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by

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ELECTRON ELASTIC SCATTERING CROSS SECTIONS FROM 1 keV TO 100 MeV FOR ELEMENTS $Z = 1$ TO 100

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ABSTRACT

Tables of electron elastic scattering differential cross sections of elements ($Z = 1$ to 100) are given for electron energies in the range of 1 keV to 100 MeV and scattering angles in the range of 1 to 179°. The function describing the asymmetry of a polarized electron beam after the scattering process is also included in the tables.

I. INTRODUCTION

The most significant interactions of electrons with matter include (1) elastic scattering from nuclei, (2) inelastic scattering from atomic electrons, and (3) radiative interactions with both nuclei and atomic electrons. This report is concerned only with the first interaction, the scattering of electrons from nuclei.

Because the mass of the electron is much smaller than that of the nuclear target, the energy lost by the electron is negligible. Consequently, the result of the interaction is merely a change in the direction of motion of the incident electron. This report considers only the deflection caused by a single scattering event; the effects of repeated or multiple scatterings are not included.

The cross section for the electron-nuclear scattering depends on the initial energy of the electron, the scattering angle of the electron, the atomic number and size of the nucleus, and the screening potential, which is determined by the charge and magnetic structures of the atom and the nucleus.

When the program to obtain electron scattering cross sections was initiated at the Los Alamos Scientific Laboratory in July 1971, the objective was to calculate (1) the *Rutherford* or classical cross section, (2) the *nonscreened Mott* cross section derived from the Dirac theory of the electron assuming a

pure Coulomb field, and (3) the *screened Mott* cross section derived from the Dirac theory assuming the nuclear field is screened by atomic electrons and given by a Hartree-type potential. Rutherford cross sections are easily calculated and have sufficient accuracy for some purposes, particularly at small scattering angles. Nonscreened Mott cross sections have been used extensively in electron transport calculations, and measured cross sections have frequently been reported in terms of nonscreened Mott to Rutherford ratios or nonscreened to screened Mott ratios. Screened Mott cross sections are the most difficult to calculate, but give the best agreement with measurement.

The results of the Rutherford and nonscreened Mott cross-section calculations are given in the accompanying tables. Progress was also made on the screened Mott calculations. For example, a program that calculates the phase-shifts was developed and tested. However, the work had to be abandoned in June 1972 for lack of financial support. Although screened Mott cross sections are not presented in this report, the method used for their calculation is described.

Included in the tables is the scattering asymmetry, which is also referred to as the Sherman function. For an incident unpolarized electron beam, the Sherman function gives the degree of polarization of the scattered electrons.

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II. THEORETICAL CROSS SECTIONS

A. Nonscreened

The first theoretical treatment of the elastic scattering of charged particles by a Coulomb nuclear field was given by Rutherford.¹ Although he developed his cross-section formula from Newtonian mechanics, the same result was deduced from wave mechanics using Schrödinger's equation (Ref. 2, pp. 45-49). Rutherford's formula applies to a non-relativistic electron scattered by an unscreened, infinitely heavy, point nucleus.

Mott used Dirac's relativistic wave equation and the first-order Born approximation to correct Rutherford's formula so that it would apply to relativistic electrons (Ref. 2, p. 80). McKinley and Feshbach³ used the second-order Born approximation to further improve the Rutherford formula. Third- and higher order Born approximation formulas have been derived by Johnson, Weher, and Mullin⁴ and Rosen.⁵

The effect on scattering of finite nuclear size was studied first by Rose⁶ and later in great detail by Herman and Hofstadter.⁷ Cross-section formulas which include corrections for both the charge and magnetic structure of the nucleus are given by Rosenbluth,⁸ Ernst, Sachs, and Wali,⁹ and Ginsberg and Pratt.¹⁰ Calculations which include the charge and magnetic structure of the nucleus and atom are mainly based on the first-order Born approximation and assume charge and magnetic moment distributions, which are spherically symmetric.

The most accurate estimate of the nonscreened cross sections are obtained from the so-called "exact" formula of Mott.¹¹ He solved the Dirac equation for electrons elastically scattered by a pure Coulomb field (Ref. 2, pp. 78-80). In the calculation, Mott assumes an infinitely heavy, point-charge nucleus with negligible spin effects.

Mott's cross-section formula involves slowly and conditionally convergent infinite series that must be evaluated numerically. Mott calculated the cross section for $Z = 79$ at 90° . The first extensive calculations over a range of angles were performed by Bartlett and Watson¹² for $Z = 80$ and initial electron kinetic energies $T_e = 0.024, 0.044, 0.074, 0.12, 0.16, 0.237, 0.34, 0.654, \text{ and } 1.71 \text{ MeV}$. Similar calculations were performed by Yadav¹³ for $Z = 92$ at $T_e = 0.074, 0.16, 0.34, 1.71, \text{ and } 10.2 \text{ MeV}$.

McKinley and Feshbach³ and Carr¹⁴ derived approximate expressions to Mott's formula and plotted curves giving the Mott to Rutherford cross-section ratio as a function of Z for $T_e = 1, 2, \text{ and } 4$

MeV. Feshbach¹⁵ also calculated cross sections for $Z = 13, 29, 47, 62, \text{ and } 80$ at extreme relativistic energies, $T_e > 4 \text{ MeV}$.

Extensive calculations were later performed by Doggett and Spencer¹⁶ for $Z = 6, 13, 29, 50, 82, \text{ and } 92$ at $T_e = 0.05, 0.1, 0.2, 0.4, 0.7, 1, 2, 4, \text{ and } 10 \text{ MeV}$. Berger,¹⁷ using a computer program written by Coyne, reported Mott to Rutherford ratios for $Z = 13$ and 79 at $T_e = 0.5 \text{ MeV}$.

Sherman¹⁸ calculated cross sections for $Z = 13, 38, \text{ and } 80$ at $T_e = 0.03, 0.046, 0.079, 0.128, 0.204, 0.340, \text{ and } 0.661 \text{ MeV}$. In addition, Sherman was the first to calculate the polarization asymmetry factor. Because Dirac's equation includes the spin of the electron, polarization effects are predicted by Mott's formula. The Sherman function gives the degree of polarization of the scattered electrons when the incident electrons are unpolarized.

B. Screened

The formulas discussed in the preceding section do not consider the screening of the nuclear potential by atomic electrons. In the first Born approximation, Heine¹⁹ and Hullard and Massey²⁰ corrected Rutherford's nonrelativistic formula for screening using the Thomas-Fermi statistical atomic model. Second- and higher order Born approximation formulas have been derived by Dalitz²¹ with exponential screening and by Gershkov²² with Thomas-Fermi screening.

In multiple scattering calculations, Goudsmit and Saunderson²³ developed an expression for the Rutherford single-scatter cross section, which introduces screening by replacing the $(1 - \cos \theta)^{-2}$ with a $(1 - \cos \theta + 0.7/2)^{-2}$ term. Molière²⁴ derived an expression for the screening angle, θ_s , using the WKB approximation and the Thomas-Fermi potential. Spencer²⁵ developed an expression that combines the Mott to Rutherford ratio with Molière's screening angle.

The most accurate estimate of the cross section is obtained from the exact phase-shift formula (Ref. 2, pp. 74-76). Using the method of partial waves, Mott obtained expressions for the scattering amplitude and the spin direction change after scatter in terms of phase shifts, which are obtained from the asymptotic form of the regular solution to the radial Dirac equation. The screening potential is arbitrary.

The earliest screened cross-section calculations using the exact Mott phase-shift formula were those of Bartlett and Welton²⁶ for $Z = 80$, $T_e = 100$ and 230 keV ; Massey and Mohr²⁷ for $Z = 36, 54, \text{ and } 79$ in the energy range 0.1 to 150 keV ; Mohr²⁸ for $Z =$

79, $T_e = 5.4, 16.5, 33, 121, 392$, and 1060 keV; and Mohr and Tassie³⁸ for $Z = 79$, $T_e = 0.87, 1.95, 5.4, 12.2, 33.0$, and 121 keV.

More accurate calculations were performed later by Lin, Sherman, and Percus³⁹ for $Z = 79$ at 121 keV using two exponential potentials, and for $Z = 80$ at 46 and 79 keV using both exponential and Hartree potentials. Lin⁴⁰ extended these calculations using Hartree potentials to $Z = 29$, $T_e = 50, 100, 200$, and 400 keV; $Z = 79$, $T_e = 50, 100, 120, 188, 200$, and 400 keV; and $Z = 80$, $T_e = 204$ keV. Holzwarth and Meister⁴² performed similar calculations for $Z = 79$ and 80 for 30 different energies between 0.2 and 200 keV. A simpler, but more approximate method of obtaining screened to pure Coulomb cross-section ratios was derived by Zeiter and Olsen.⁴³

Other recent calculations include those of Bonham and Kufic⁴⁴ for $Z = 79, 80$, and 92 at $40, 121, 230$, and 40 keV, respectively. Cox and Bonham⁴⁵ have also tabulated scattering amplitudes and phases for $Z = 1$ to 54 at $T_e = 10, 40, 70$, and 100 keV. Hühnerling⁴⁶ has calculated cross sections for $Z = 80$ at $T_e = 46, 79, 100$, and 204 keV.

The early screened calculations of Massey and Mohr⁴⁷ and Mohr⁴⁸ indicated that appreciable polarization effects could be expected in the low-energy region (< 5 keV). The later, more accurate calculations by Holzwarth and Meister⁴² and Bunyan and Schonfelder⁴⁹ who calculated cross sections and polarizations for $Z = 80$ in the energy region 100 to 2000 eV, confirmed these predictions.

Consequently, in recent years the emphasis has been on numerical calculations of screened cross sections and spin polarizations in the low-energy region. Included in these calculations are those of Schonfelder⁴⁹ for $Z = 80$, $T_e = 10, 15, 25, 40, 100$, and 500 eV, and $Z = 79$ and 83 at 100 eV. Walker⁴⁹ has performed similar calculations for $Z = 80$ in the energy range 3.5 to 500 eV. Fink and Yates⁴⁰ have published extensive cross-section and spin-polarization tables for $Z = 1, 2, 6, 10, 18, 36, 37, 54, 55, 79, 80, 82$, and 83 at $T_e = 25, 50, 75, 150, 175, 200, 300, 400, 600$, and 800 eV.

Polarization at low energies is due to the diffraction of the incident electron wave by the atom. When the electron wavelength is comparable to the atomic radius, interference patterns with distinct maxima and minima of the scattered intensity are obtained. The effective atomic radius is different for spin-up and spin-down electrons, resulting in a shift of the diffraction pattern. Because the number of spin-up and spin-down electrons in the scattered beam differ, it is polarized.

Comprehensive reviews discussing both the non-screened and screened formulas and calculations are contained in the articles by Birkhoff⁴¹ and Motz,

Olsen, and Koch.⁴² The latter article also gives a detailed discussion of effects generally neglected in cross-section calculations, such as the radiative corrections recently tabulated by Breuer⁴³ and atomic electron exchange studied by Walker⁴⁹ and Fink, Ingrao, and Yates.⁴⁰

III. EXPERIMENTAL CROSS SECTIONS

Many experimental studies of single and double elastic scattering of electrons by nuclei have been made, and some of the results are in apparent contradiction to Mott's theory. The earlier studies were primarily concerned with the measurement of differential cross sections, but in the last decade, the emphasis has been on the measurement of polarization asymmetry.

Among the early measurements are those of Randels, Chao, and Crane,⁴⁵ who scattered 0.9 - to 12 -MeV electrons from noble gases through angles of 15 and 90° and obtained cross sections that agreed with Mott's theory. The observations of Van de Graaff et al.^{46,47} on scattering of 1.27 - and 2.27 -MeV electrons from elements $Z = 4, 13, 29, 47, 78$, and 79 through angles of 20 to 60° also agreed with theory.

Schulze-Pillot and Bothe⁴⁸ obtained agreement with theory within experimental error when they scattered 1 - to 2.5 -MeV electrons through angles of 13 to 25° from elements $Z = 13, 28, 47$, and 79 . At lower energies and a scattering angle of 106° , Bothe⁴⁹ obtained 10% agreement with theory with the lighter elements, but found discrepancies of 18 and 28% at 210 and 370 keV, respectively, for $Z = 79$. Kinzinger and Bothe⁵⁰ scattered 245 -keV electrons from elements $Z = 13, 28, 47$, and 79 through angles of 70 to 150° and obtained agreement with theory only for $Z = 13$; differences of as much as 37% at 150° were measured for $Z = 79$. Kinzinger⁵¹ repeated these measurements for $Z = 13$ and 79 for electron energies between 150 and 400 keV through angles of 30 to 150° and again found agreement with theory for $Z = 13$ but marked differences for $Z = 79$ above 90° . Paul and Reich⁵² scattered 2 -MeV electrons from elements $Z = 13, 29, 47, 50$, and 78 at angles of $60, 90$, and 120° , and again the results for the heavier elements were 15% less than the theoretical.

However, agreement with theory within experimental error was obtained by Bayard and Yntema,⁵³ who observed 0.6 -, 1.0 -, and 1.7 -MeV electrons scattering from foils $Z = 13$ and 79 over an angular range from 30 to 150° . Similarly, the observations of Chapman et al.⁵⁴ for $Z = 13$ and 79 at 0.2 MeV at 25 to 90° and for $Z = 13$ at 0.4 and 0.5 MeV

at 100 to 150° agree with theory. Pettus et al.⁵⁵ obtained 3% agreement with theory for $Z = 79$ at 0.2 MeV in the angular range 70 to 150°. Damodaran and Curr⁵⁶ measured cross sections of elements $Z = 13, 47, 78$, and 92 at 4.33 MeV between 45 and 90° and obtained 5% agreement with theory. Brown et al.⁵⁷ measured cross sections for $Z = 72$ at 0.4 and 0.5 MeV at 90 and 105° and obtained 4% agreement with theory. Spiegel et al.⁵⁸ scattered 1.0-, 1.75-, and 2.5-MeV electrons from foils of $Z = 13, 28, 47$, and 79 between 30 to 150° and measured cross sections 5 to 10% below theory; radiative and nuclear size corrections improved the agreement. Kessler⁵⁹ obtained 5% agreement with theory with 150-keV electrons scattering from elements $Z = 36, 54$, and 80 over the angular range 60 to 135°. Motz et al.⁶⁰ measured cross sections of $Z = 29, 50$, and 79 at 50, 100, 200, and 400 keV between 20 to 110°, which agreed with theory within experimental error except for a large discrepancy for $Z = 29$ at 50 keV. Agreement within experimental error was obtained by Rester and Rainwater,⁶¹ who measured cross sections for $Z = 13$ at 0.1, 0.2, 0.3, 0.7, 1.0, 1.25, 1.5, 2.0, 2.5, and 3.0 MeV between 30 and 150°.

The first successful double-scattering experiment showing the scattering asymmetry was made by Shull, Chase, and Myers.⁶² A review of polarization theory and the early measurements is given in an article by Tolhoek⁶³ and later by Motz, Olsen, and Koch.⁴²

Nelson and Pidd⁶⁴ measured asymmetries for $Z = 79$ between 80 and 140° at 121 keV and obtained agreement with Sherman's unscreened calculation only at 90 to 100°. Their measurements were 17% above theory at 80° and 15 to 20% below theory at 120 to 140°. Energy dependence measurements of the Sherman function by Bienlein et al.⁶⁵ in the range 120 to 210 keV for $Z = 29, 47, 58$, and 79 at 120° agreed with theory at the higher energies, and the differences observed at the lower energies were attributed to screening. Angular dependence measurements of the Sherman function by Bienlein et al.⁶⁶ between 40 and 150° for $Z = 79$ and 80 at 155 keV agreed with theory within experimental error. Apalin et al.⁶⁷ measured the Sherman function for $Z = 79$ at 120° at 45, 63, 83, 133, 170, 204, and 245 keV and obtained experimental to theoretical ratios of 0.79, 0.88, 0.92, 0.92, 0.92, 0.97, and 0.96, respectively.

The later measurements have been compared to the screened calculations of Lin et al.^{30,31} and Holzwarth and Meister.³² The observations of Mikaelyan et al.⁶⁸ for $Z = 79$ at 90 to 150° at 45 to 245 keV were less than the screened calculations by 20% at 45 keV, 8 to 13% at the intermediate energies,

and 5% at 245 keV. Van Klinken⁶⁹ measured the asymmetry for $Z = 79$ and 105° as a function of energy from 26 to 261 keV and as a function of angle from 30 to 150° for 121-keV electrons; the experimental values were generally below theory with the largest discrepancies occurring at small angles and low energies. Boersch et al.⁷⁰ measured the asymmetry for $Z = 79$ at 120° between 22 and 48 keV and obtained results that were 10 to 20% less than the screened calculations.

Many scattering asymmetry measurements were made recently in the low-energy region (<5 keV) by Deichsel et al.⁷¹⁻⁷³ and Kessler et al.⁷⁴⁻⁷⁶. A review of these measurements by Kessler⁷⁷ indicates that the agreement between measurement and the screened Mott theory is good.

IV. DESCRIPTION OF THE CALCULATIONS

A. Rutherford Cross Section

The classical differential cross section per unit solid angle, $d\sigma/d\Omega$, for elastic nuclear scattering of electrons in the direction θ is given by

$$\frac{d\sigma}{d\Omega} = Z^2 r_0^2 \frac{1-\beta^2}{\beta^4} \frac{1}{(1-\cos\theta)^2}, \quad (1)$$

where $r_0 = e^2/mc^2$ is the classical electron radius and $\beta = v/c$.

B. Nonscreened Mott Cross Section

Because our calculation closely parallels Sherman's,¹⁸ we will use his notation. The differential cross section per unit solid angle for single scattering of unpolarized electrons by a pure Coulomb field in the direction θ is

$$\frac{d\sigma}{d\Omega} = \lambda^2 \left[q^2 (1-\beta^2) \times |F|^2 \csc^2\left(\frac{\theta}{2}\right) + |G|^2 \sec^2\left(\frac{\theta}{2}\right) \right], \quad (2)$$

where $\lambda = \hbar/mc$ is the electron Compton wavelength, $q = \alpha/\beta$, and $\alpha = Z(e^2/\hbar c) = Z/137$.

The complex functions F and G are defined as follows:

$$F = F_0 + F_1, \quad (3)$$

$$F_0 = \frac{i\Gamma(1-iq)}{2\Gamma(1+iq)} \exp \left[iq \ln \sin^2 \left(\frac{\theta}{2} \right) \right], \quad (4)$$

$$F_1 = \frac{i}{2} \sum_{\ell=0}^{\infty} \left[\ell D_{\ell} + (\ell+1) D_{\ell+1} \right] \times (-1)^{\ell} P_{\ell}(\cos \theta), \quad (5)$$

$$G = G_0 + G_1, \quad (6)$$

$$G_0 = -iq \left[\cot^2 \left(\frac{\theta}{2} \right) \right] F_0, \quad (7)$$

$$G_1 = \frac{i}{2} \sum_{\ell=0}^{\infty} \left[\ell^2 D_{\ell} - (\ell+1)^2 D_{\ell+1} \right] \times (-1)^{\ell} P_{\ell}(\cos \theta), \quad (8)$$

where Γ is the gamma function and P_{ℓ} is the Legendre polynomial of order ℓ . D_{ℓ} is given by

$$D_{\ell} = \frac{\exp(-i\pi\ell) \Gamma(\ell-iq)}{\ell+iq \Gamma(\ell+iq)} - \frac{\exp(-i\pi\rho_{\ell}) \Gamma(\rho_{\ell}-iq)}{\rho_{\ell}+iq \Gamma(\rho_{\ell}+iq)}, \quad (9)$$

where

$$\rho_{\ell} = (\ell^2 - \alpha^2)^{1/2}. \quad (10)$$

C. Screened Mott Cross Section

The differential cross section per unit solid angle for single scattering of unpolarized electrons by a screened potential V in the direction θ is

$$\frac{d\sigma}{d\Omega} = |f(\theta)|^2 + |g(\theta)|^2, \quad (11)$$

where $f(\theta)$ and $g(\theta)$, the direct and spin flip amplitudes, respectively, are

$$f(\theta) = \frac{1}{2ik} \sum_{\ell=0}^{\infty} \left[(\ell+1) \left\{ \exp(2i\delta_{\ell}) - 1 \right\} + \ell \left\{ \exp(2i\delta_{-\ell-1}) - 1 \right\} \right] P_{\ell}(\cos \theta), \quad (12)$$

and

$$g(\theta) = \frac{1}{2ik} \sum_{\ell=0}^{\infty} \left[\exp(2i\delta_{-\ell-1}) - \exp(2i\delta_{\ell}) \right] P'_{\ell}(\cos \theta). \quad (13)$$

The wave number $k = \beta/(1-\beta^2)^{1/2}\lambda$, P_{ℓ} are the Legendre polynomials, P'_{ℓ} are the associate Legendre functions, and δ_{ℓ} , $\delta_{-\ell-1}$ are the spin-up and spin-down phase shifts.

The phase shifts can be found from the asymptotic form of the regular solution to the Dirac radial equation, which is

$$\frac{d^2 g_{\ell}}{dr^2} + \left[k^2 - \frac{\ell(\ell+1)}{r^2} - U_{\ell} \right] g_{\ell} = 0, \quad (14)$$

where the Dirac potential U_{ℓ} is

$$U_{\ell} = \frac{2EV}{\hbar^2 c^2} - \frac{V^2}{\hbar^2 c^2} - \frac{\ell(\ell+1)}{r} \frac{\alpha'}{\alpha} + \frac{3}{4} \frac{\alpha'^2}{\alpha^2} - \frac{1}{2} \frac{\alpha''}{\alpha}, \quad (15)$$

$$\alpha = \frac{1}{\hbar c} (E + mc^2 - V) \quad , \quad \alpha' = d\alpha/dr \quad ,$$

$$\text{and} \quad \alpha'' = d^2\alpha/dr^2. \quad (16)$$

The total initial energy of the electron is E , and the potential energy of the electron in the field of the scattering center is V . To obtain δ_{l+1} , l is replaced by $-(l+1)$ in these equations.

As shown by Lin et al.,³⁰ the Dirac equation can be integrated by using the transformation

$$g_l(\xi) = A_l(\xi) \sin(\xi + \eta_l) \quad , \quad (17)$$

where $\xi = kr$. This leads to the equations

$$\frac{1}{A_l} \frac{dA_l}{d\xi} = \left[\frac{l(l+1)}{\xi^2} + \frac{U_l}{k^2} \right] \times \sin(\xi + \eta_l) \cos(\xi + \eta_l) \quad , \quad \text{and} \quad (18)$$

$$\frac{d\eta_l}{d\xi} = - \left[\frac{l(l+1)}{\xi^2} + \frac{U_l}{k^2} \right] \sin^2(\xi + \eta_l) \quad , \quad (19)$$

$$\text{with the properties} \quad \eta_l \xrightarrow[r \rightarrow \infty]{} \delta_l - \pi/2$$

$$\text{and} \quad A_l \xrightarrow[r \rightarrow \infty]{} \text{constant} \quad . \quad (20)$$

D. Scattering Potentials

The potential energy of the electron in the scattering field may be written

$$V(r) = \left(-\frac{Ze^2}{r} \right) \frac{Z_p(r)}{Z} \quad . \quad (21)$$

The Coulomb potential of the nucleus is modified by the factor $Z_p(r)/Z$, representing the screening effect of the electrons on the nucleus.

Byatt⁷⁸ represented the screening factor by an expression of the form

$$\frac{Z_p(r)}{Z} = \sum_{i=1}^3 a_i \exp(-b_i x) \quad , \quad (22)$$

where $x = 1.13 Z^{1/3} r/a_0$. Using numerical values of the screening factor tabulated by Hartree⁷⁹ and Freeman,⁸⁰ he obtained values for the coefficients a_i and b_i for elements $Z = 2, 4, 6-10, 18-20, 24, 26, 30, 32, 33, 35, 36, 74$, and 80 .

Strand and Bonham⁸¹ obtained a better approximation to the screening factor with the analytical expression

$$\begin{aligned} \frac{Z_p(r)}{Z} = & \sum_{i=1}^2 a_{\gamma_i} \exp(-a_{\lambda_i} r) \\ & + r \sum_{j=1}^3 b_{\gamma_j} \exp(-b_{\lambda_j} r) \quad . \quad (23) \end{aligned}$$

They obtained the coefficients for elements $Z = 1$ to 36 from least square fits to the radial electron density $D(r)$, which was written in terms of the same coefficients as

$$\begin{aligned} D(r) = & Zr \left[\sum_i a_{\gamma_i} a_{\lambda_i}^2 \exp(-a_{\lambda_i} r) \right. \\ & \left. + \sum_j b_{\gamma_j} b_{\lambda_j} (b_{\lambda_j} r - 2) \exp(-b_{\lambda_j} r) \right] \quad . \quad (24) \end{aligned}$$

Numerical values of the electron density obtained from Hartree-Fock wave functions were tabulated by Clementi et al.⁸² and Watson and Freeman.^{83,84}

Cox and Bonham⁸⁵ represented the screening factor by

$$\frac{Z_p(r)}{Z} = \sum_{i=1}^{10} \gamma_i \exp(-\lambda_i r) \quad , \quad (25)$$

and the radial electron density by

$$D(r) = Zr \sum_{i=1}^{10} \gamma_i \lambda_i^2 \exp(-\lambda_i r) \quad . \quad (26)$$

They tabulated coefficients obtained from least squares fits to electron densities calculated by Clementi⁸⁶ for $Z = 1$ to 21 and by Liberman et al.⁸⁷ for $Z = 22$ to 54. Clementi used Hartree-Fock wave functions, and Liberman et al.⁸⁷ numerically integrated the Dirac equations using determinantal wave functions of one-electron orbitals chosen according to the j - j coupling scheme and the Slater $\rho^{1/3}$ approximation to the exchange potential.

In the aborted present calculation of the screened Mott cross sections, potentials were derived from electron densities supplied by Cromer.⁸⁷

E. Polarization

The Sherman function is measured in a double-scattering experiment. If an unpolarized beam is scattered through an angle θ_1 and the partially polarized scattered beam is then scattered again through an angle θ_2 , the intensity of the doubly scattered beam will depend on the azimuthal angle ϕ_2 about the direction θ_1 . The differential cross section for this process is

$$\frac{d\sigma}{d\Omega}(\theta_1, \theta_2, \phi_2) = \frac{d\sigma}{d\Omega}(\theta_1) \frac{d\sigma}{d\Omega}(\theta_2) \times [1 + \delta(\theta_1, \theta_2) \cos \phi_2] \quad , \quad (27)$$

where $\delta(\theta_1, \theta_2)$, the polarization asymmetry, can be expressed as the product of two factors $S(\theta_1)S(\theta_2)$. The Sherman factor $S(\theta)$ is given by

$$S(\theta) = \frac{2Z^2 q (1-\beta^2)^{1/2}}{\sin \theta \, d\sigma/d\Omega} \times [FG^* + F^*G] \quad . \quad (28)$$

V. DESCRIPTION OF THE TABLES

Electron elastic scattering differential cross sections are given in units of barns/steradian for elements $Z = 1$ to 100. The column labeled "deg" gives the electron scattering angle in degrees. Cross sections are given for 17 angles in the 1 to 173° range. The kinetic energy of the incident electron is in units of MeV. Cross sections are given for 36 energies in the 0.001- to 100-MeV range.

Table I gives the Rutherford classical cross section, labeled "Ruth" and calculated from Eq. (1) and the nonscreened Mott cross section for a pure Coulomb field, labeled "Mott" and calculated from Eq. (2).

Table II gives the Sherman function, or degree of polarization of a scattered electron beam, calculated from Eq. (28); this quantity is dimensionless.

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TABLE I

ELECTRON CROSS SECTIONS

H (1)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
10	DEG	1.0E-03MEV	1.5E-03MEV	2.0E-03MEV	3.0E-03MEV	4.0E-03MEV	5.0E-03MEV					
1	2.239E+11	2.240E+11	9.960E+10	9.965E+10	5.608E+10	5.611E+10	2.497E+10	2.499E+10	1.407E+10	1.408E+10	9.025E+09	9.030E+09
2	1.399E+10	1.400E+10	6.226E+09	6.229E+09	3.505E+09	3.507E+09	1.561E+09	1.562E+09	8.797E+08	8.803E+08	5.641E+08	5.645E+08
3	2.765E+09	2.767E+09	1.230E+09	1.231E+09	6.925E+08	6.930E+08	3.084E+08	3.086E+08	1.738E+08	1.739E+08	1.115E+08	1.115E+08
4	8.752E+08	8.757E+08	3.893E+08	3.896E+08	2.192E+08	2.194E+08	9.762E+07	9.768E+07	5.502E+07	5.505E+07	3.528E+07	3.530E+07
6	1.730E+08	1.732E+08	7.698E+07	7.703E+07	4.335E+07	4.337E+07	1.930E+07	1.931E+07	1.088E+07	1.089E+07	6.976E+06	6.980E+06
8	5.483E+07	5.487E+07	2.439E+07	2.441E+07	1.373E+07	1.374E+07	6.116E+06	6.120E+06	3.447E+06	3.449E+06	2.210E+06	2.212E+06
10	2.250E+07	2.251E+07	1.001E+07	1.002E+07	5.636E+06	5.640E+06	2.510E+06	2.511E+06	1.414E+06	1.415E+06	9.070E+05	9.076E+05
15	4.473E+06	4.476E+06	1.990E+06	1.991E+06	1.120E+06	1.121E+06	4.989E+05	4.992E+05	2.812E+05	2.814E+05	1.803E+05	1.804E+05
20	1.28E+06	1.29E+06	6.352E+05	6.356E+05	3.577E+05	3.579E+05	1.593E+05	1.594E+05	8.976E+04	8.981E+04	5.756E+04	5.758E+04
30	2.898E+05	2.895E+05	1.287E+05	1.288E+05	7.247E+04	7.250E+04	3.227E+04	3.228E+04	1.819E+04	1.819E+04	1.166E+04	1.166E+04
45	6.054E+04	6.056E+04	2.693E+04	2.693E+04	1.516E+04	1.516E+04	6.752E+03	6.749E+03	3.806E+03	3.802E+03	2.440E+03	2.437E+03
60	2.077E+04	2.077E+04	9.241E+03	9.237E+03	5.203E+03	5.169E+03	2.317E+03	2.313E+03	1.306E+03	1.303E+03	8.374E+02	8.345E+02
75	9.453E+03	9.449E+03	4.206E+03	4.201E+03	2.368E+03	2.364E+03	1.054E+03	1.051E+03	5.943E+02	5.916E+02	3.811E+02	3.789E+02
90	5.193E+03	5.188E+03	2.310E+03	2.306E+03	1.301E+03	1.297E+03	5.793E+02	5.765E+02	3.265E+02	3.243E+02	2.093E+02	2.076E+02
120	2.308E+03	2.303E+03	1.027E+03	1.023E+03	5.781E+02	5.753E+02	2.574E+02	2.554E+02	1.451E+02	1.436E+02	9.304E+01	9.17E+01
150	1.491E+03	1.487E+03	6.635E+02	6.603E+02	3.736E+02	3.711E+02	1.664E+02	1.647E+02	9.376E+01	9.247E+01	6.012E+01	5.908E+01
179	1.298E+03	1.294E+03	5.777E+02	5.747E+02	3.253E+02	3.229E+02	1.448E+02	1.432E+02	8.163E+01	8.042E+01	5.234E+01	5.137E+01
DEG	7.0E-03MEV	1.9E-02MEV	1.5E-02MEV	2.0E-02MEV	3.0E-02MEV	4.0E-02MEV						
1	4.622E+09	4.625E+09	2.278E+09	2.279E+09	1.022E+09	1.023E+09	5.802E+08	5.806E+08	2.626E+08	2.628E+08	1.504E+08	1.505E+08
2	2.889E+08	2.891E+08	1.424E+08	1.425E+08	6.388E+07	6.392E+07	3.627E+07	3.629E+07	1.942E+07	1.943E+07	9.399E+06	9.405E+06
3	5.709E+07	5.712E+07	2.813E+07	2.815E+07	1.262E+07	1.263E+07	7.166E+06	7.171E+06	3.244E+06	3.246E+06	1.857E+06	1.858E+06
4	1.807E+07	1.808E+07	8.905E+06	8.910E+06	3.995E+06	3.998E+06	2.268E+06	2.270E+06	1.027E+06	1.027E+06	5.878E+05	5.882E+05
6	3.573E+06	3.575E+06	1.761E+06	1.762E+06	7.900E+05	7.905E+05	4.485E+05	4.488E+05	2.030E+05	2.031E+05	1.162E+05	1.163E+05
8	1.132E+06	1.133E+06	5.579E+05	5.583E+05	2.503E+05	2.505E+05	1.421E+05	1.422E+05	6.432E+04	6.436E+04	3.683E+04	3.684E+04
10	4.645E+05	4.648E+05	2.289E+05	2.291E+05	1.027E+05	1.028E+05	5.832E+04	5.834E+04	2.639E+04	2.640E+04	1.511E+04	1.511E+04
15	9.235E+04	9.240E+04	4.551E+04	4.553E+04	2.042E+04	2.042E+04	1.159E+04	1.159E+04	5.247E+03	5.245E+03	3.004E+03	3.002E+03
20	2.948E+04	2.949E+04	1.453E+04	1.453E+04	6.518E+03	6.516E+03	3.701E+03	3.698E+03	1.675E+03	1.672E+03	4.590E+02	4.567E+02
30	5.973E+03	5.970E+03	2.944E+03	2.941E+03	1.321E+03	1.318E+03	7.499E+02	7.475E+02	3.394E+02	3.376E+02	1.943E+02	1.929E+02
45	1.250E+03	1.247E+03	6.159E+02	6.135E+02	2.763E+02	2.748E+02	1.569E+02	1.555E+02	7.101E+01	7.006E+01	4.066E+01	3.993E+01
60	4.289E+02	4.267E+02	2.114E+02	2.097E+02	9.483E+01	9.368E+01	5.384E+01	5.295E+01	2.437E+01	2.377E+01	1.395E+01	1.350E+01
75	1.952E+02	1.935E+02	9.618E+01	9.499E+01	4.315E+01	4.234E+01	2.450E+01	2.388E+01	1.109E+01	1.067E+01	6.349E+00	6.037E+00
90	1.072E+02	1.059E+02	5.284E+01	5.192E+01	2.371E+01	2.308E+01	1.346E+01	1.299E+01	6.092E+00	5.777E+00	3.488E+00	3.252E+00
120	4.765E+01	4.674E+01	2.348E+01	2.284E+01	1.054E+01	1.011E+01	5.982E+00	5.658E+00	2.708E+00	2.493E+00	1.550E+00	1.390E+00
150	3.079E+01	3.004E+01	1.517E+01	1.465E+01	6.808E+00	6.446E+00	3.865E+00	3.602E+00	1.750E+00	1.575E+00	1.002E+00	8.718E+00
179	2.684E+01	2.611E+01	1.321E+01	1.272E+01	5.928E+00	5.598E+00	3.365E+00	3.119E+00	1.523E+00	1.360E+00	8.721E+01	7.506E+01
DEG	5.0E-02MEV	7.0E-02MEV	1.0E-01MEV	1.5E-01MEV	2.0E-01MEV	3.0E-01MEV						
1	9.791E+07	9.797E+07	5.163E+07	5.166E+07	2.650E+07	2.652E+07	1.264E+07	1.264E+07	7.564E+06	7.569E+06	3.737E+06	3.740E+06
2	6.120E+06	6.124E+06	3.228E+06	3.230E+06	1.657E+06	1.658E+06	7.898E+05	7.903E+05	4.728E+05	4.731E+05	2.336E+05	2.338E+05
3	1.209E+06	1.210E+06	5.377E+05	5.381E+05	3.273E+05	3.276E+05	1.561E+05	1.562E+05	9.342E+04	9.348E+04	4.616E+04	4.618E+04
4	3.827E+05	3.830E+05	2.018E+05	2.020E+05	1.036E+05	1.037E+05	4.939E+04	4.942E+04	2.957E+04	2.958E+04	1.461E+04	1.462E+04
6	7.568E+04	7.572E+04	3.991E+04	3.993E+04	2.049E+04	2.049E+04	9.767E+03	9.768E+03	5.847E+03	5.847E+03	2.889E+03	2.888E+03
8	2.398E+04	2.399E+04	1.265E+04	1.265E+04	6.491E+03	6.491E+03	3.095E+03	3.093E+03	1.853E+03	1.851E+03	9.153E+02	9.142E+02
10	9.840E+03	9.840E+03	5.189E+03	5.188E+03	2.664E+03	2.662E+03	1.270E+03	1.268E+03	7.602E+02	7.588E+02	3.756E+02	3.746E+02
15	1.956E+03	1.954E+03	1.032E+03	1.029E+03	5.295E+02	5.279E+02	2.524E+02	2.513E+02	1.511E+02	1.502E+02	7.467E+01	7.409E+01
20	6.244E+02	6.242E+02	3.293E+02	3.278E+02	1.690E+02	1.679E+02	8.059E+01	7.982E+01	4.824E+01	4.768E+01	2.384E+01	2.348E+01
30	1.265E+02	1.254E+02	6.673E+01	6.589E+01	3.425E+01	3.367E+01	1.633E+01	1.594E+01	9.775E+00	9.449E+00	4.830E+00	4.654E+00
45	2.647E+01	2.589E+01	1.396E+01	1.354E+01	7.167E+00	6.877E+00	3.417E+00	3.229E+00	2.045E+00	1.909E+00	1.011E+00	9.261E+00
60	9.084E+00	8.724E+00	4.791E+00	4.535E+00	2.459E+00	2.244E+00	1.172E+00	1.059E+00	7.018E+00	6.202E+00	3.468E+00	2.921E+00
75	4.134E+00	3.885E+00	2.180E+00	2.004E+00	1.119E+00	9.985E+00	5.335E+00	4.561E+00	3.194E+00	2.636E+00	1.578E+00	1.233E+00
90	2.271E+00	2.083E+00	1.198E+00	1.065E+00	6.148E+00	5.243E+00	2.931E+00	2.352E+00	1.755E+00	1.337E+00	8.669E+00	6.991E+00
120	1.009E+00	8.821E+00	3.523E+00	4.429E+00	2.732E+00	2.122E+00	1.303E+00	9.123E+00	7.798E+00	4.988E+00	3.853E+00	2.120E+00
150	6.522E+00	5.491E+00	3.440E+00	2.716E+00	1.766E+00	1.272E+00	8.417E+00	5.265E+00	5.039E+00	2.770E+00	2.490E+00	1.091E+00
179	5.679E+00	4.715E+00	2.995E+00	2.318E+00	1.537E+00	1.076E+00	7.328E+00	4.383E+00	4.387E+00	2.268E+00	2.168E+00	8.612E+00

H (1)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	2.293B+06	2.294E+06	1.577E+06	1.578E+06	9.021E+05	9.027E+05	4.991E+05	4.994E+05	2.526E+05	2.527E+05	1.543E+05	1.544E+05
2	1.433E+05	1.434E+05	9.860E+04	9.867E+04	5.639E+04	5.643E+04	3.120E+04	3.122E+04	1.579E+04	1.580E+04	9.643E+03	9.649E+03
3	2.832E+04	2.833E+04	1.948E+04	1.949E+04	1.114E+04	1.115E+04	6.164E+03	6.167E+03	3.119E+03	3.121E+03	1.905E+03	1.906E+03
4	8.962E+03	8.966E+03	6.167E+03	6.168E+03	3.526E+03	3.527E+03	1.951E+03	1.951E+03	9.873E+02	9.875E+02	6.030E+02	6.031E+02
6	1.772E+03	1.771E+03	1.219E+03	1.219E+03	6.973E+02	6.978E+02	3.858E+02	3.855E+02	1.952E+02	1.950E+02	1.192E+02	1.191E+02
8	5.618E+02	5.606E+02	3.863E+02	3.857E+02	2.209E+02	2.205E+02	1.222E+02	1.220E+02	6.186E+01	6.170E+01	3.776E+01	3.768E+01
10	2.30E+02	2.297E+02	1.585E+02	1.580E+02	9.066E+01	9.030E+01	5.016E+01	4.984E+01	2.538E+01	2.526E+01	1.550E+01	1.543E+01
15	4.580E+01	4.539E+01	3.152E+01	3.120E+01	1.802E+01	1.782E+01	9.971E+00	9.851E+00	5.046E+00	4.981E+00	3.082E+00	3.041E+00
20	1.462E+01	1.437E+01	1.006E+01	9.869E+00	5.753E+00	5.631E+00	3.183E+00	3.110E+00	1.611E+00	1.571E+00	9.839E+01	9.592E+01
30	2.963E+00	2.839E+00	2.039E+00	1.946E+00	1.166E+00	1.107E+00	6.450E+01	6.098E+01	3.264E+01	3.075E+01	1.994E+01	1.875E+01
45	6.199E+01	5.608E+01	4.265E+01	3.823E+01	2.439E+01	2.169E+01	1.350E+01	1.182E+01	6.829E+02	5.933E+02	4.171E+02	3.610E+02
60	2.127E+01	1.774E+01	1.464E+01	1.199E+01	8.370E+02	6.698E+02	4.631E+02	3.633E+02	2.343E+02	1.810E+02	1.431E+02	1.097E+02
75	9.681E+02	7.270E+02	6.661E+02	4.857E+02	3.809E+02	2.669E+02	2.107E+02	1.428E+02	1.066E+02	7.029E+03	6.514E+03	4.237E+03
90	5.318E+02	3.519E+02	3.659E+02	2.313E+02	2.093E+02	1.242E+02	1.158E+02	6.507E+03	5.859E+03	3.147E+03	3.578E+03	1.881E+03
120	2.364E+02	1.155E+02	1.626E+02	7.224E+03	9.300E+03	3.592E+03	5.146E+03	1.742E+03	2.604E+03	7.843E+04	1.590E+03	4.514E+04
150	1.527E+02	5.520E+03	1.051E+02	3.218E+03	6.009E+03	1.406E+03	3.325E+03	5.802E+04	1.683E+03	2.154E+04	1.028E+03	1.094E+04
179	1.330E+02	4.187E+03	9.149E+03	2.339E+03	5.232E+03	9.335E+04	2.895E+03	3.315E+04	1.465E+03	9.474E+05	8.947E+04	3.714E+05
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	7.567E+04	7.573E+04	4.507E+04	4.510E+04	2.994E+04	2.996E+04	1.599E+04	1.600E+04	8.128E+03	8.133E+03	3.723E+03	3.725E+03
2	4.736E+03	4.733E+03	2.817E+03	2.819E+03	1.872E+03	1.873E+03	9.995E+02	1.000E+03	5.081E+02	5.084E+02	2.327E+02	2.329E+02
3	9.346E+02	9.351E+02	5.566E+02	5.569E+02	3.698E+02	3.699E+02	1.975E+02	1.976E+02	1.004E+02	1.004E+02	4.598E+01	4.600E+01
4	2.958E+02	2.959E+02	1.762E+02	1.762E+02	1.170E+02	1.171E+02	6.251E+01	6.251E+01	3.177E+01	3.178E+01	1.455E+01	1.455E+01
6	5.849E+01	5.844E+01	3.484E+01	3.480E+01	2.314E+01	2.312E+01	1.236E+01	1.235E+01	6.283E+00	6.276E+00	2.878E+00	2.875E+00
8	1.853E+01	1.848E+01	1.104E+01	1.101E+01	7.333E+00	7.313E+00	3.916E+00	3.905E+00	1.991E+00	1.985E+00	9.118E+01	9.092E+01
10	7.606E+00	7.567E+00	4.530E+00	4.506E+00	3.009E+00	2.994E+00	1.607E+00	1.599E+00	8.169E+01	8.126E+01	3.742E+01	3.722E+01
15	1.512E+00	1.491E+00	9.005E+01	8.881E+01	5.982E+01	5.900E+01	3.195E+01	3.151E+01	1.624E+01	1.601E+01	7.438E+02	7.355E+02
20	4.827E+01	4.702E+01	2.875E+01	2.800E+01	1.910E+01	1.860E+01	1.020E+01	9.931E+02	5.184E+02	5.048E+02	2.374E+02	2.312E+02
30	9.780E+02	9.187E+02	5.825E+02	5.468E+02	3.869E+02	3.631E+02	2.066E+02	1.939E+02	1.050E+02	9.854E+02	4.811E+02	4.513E+03
45	2.046E+02	1.765E+02	1.219E+02	1.050E+02	8.096E+03	6.968E+03	4.324E+03	3.719E+03	2.198E+03	1.890E+03	1.007E+03	8.654E+04
60	7.022E+03	5.347E+03	4.192E+03	3.176E+03	2.778E+03	2.107E+03	1.484E+03	1.124E+03	7.542E+04	5.708E+04	3.454E+04	2.613E+04
75	3.195E+03	2.055E+03	1.903E+03	1.218E+03	1.264E+03	8.072E+04	6.752E+04	4.301E+04	3.432E+04	2.183E+04	1.572E+04	9.993E+05
90	1.755E+03	9.052E+04	1.045E+03	5.347E+04	6.945E+04	3.538E+04	3.709E+04	1.882E+04	1.885E+04	9.545E+05	8.636E+05	4.367E+05
120	7.802E+04	2.096E+04	4.647E+04	1.219E+04	3.087E+04	8.003E+05	1.649E+04	4.225E+05	8.380E+05	2.134E+05	3.838E+05	9.735E+06
150	5.041E+04	4.414E+05	3.002E+04	2.395E+05	1.995E+04	1.512E+05	1.065E+04	7.681E+06	5.415E+05	3.790E+06	2.480E+05	1.706E+06
179	4.389E+04	9.336E+06	2.614E+04	3.376E+06	1.737E+04	1.507E+06	9.274E+05	4.366E+07	4.714E+05	1.151E+07	2.159E+05	2.511E+08
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	2.127E+03	2.128E+03	9.606E+02	9.612E+02	5.448E+02	5.451E+02	3.504E+02	3.506E+02	1.798E+02	1.799E+02	8.847E+01	8.853E+01
2	1.330E+02	1.330E+02	6.005E+01	6.008E+01	3.405E+01	3.407E+01	2.190E+01	2.192E+01	1.124E+01	1.125E+01	5.530E+00	5.534E+00
3	2.627E+01	2.628E+01	1.186E+01	1.187E+01	6.728E+00	6.731E+00	4.327E+00	4.329E+00	2.220E+00	2.221E+00	1.093E+00	1.093E+00
4	8.315E+00	8.316E+00	3.755E+00	3.756E+00	2.130E+00	2.130E+00	1.370E+00	1.370E+00	7.028E+01	7.029E+01	3.459E+01	3.459E+01
6	1.644E+00	1.642E+00	7.425E+01	7.417E+01	4.211E+01	4.206E+01	2.708E+01	2.705E+01	1.390E+01	1.388E+01	6.839E+02	6.831E+02
8	5.210E+01	5.195E+01	2.153E+01	2.146E+01	1.334E+01	1.330E+01	8.581E+02	8.557E+02	4.403E+02	4.391E+02	2.167E+02	2.161E+02
10	2.138E+01	2.127E+01	9.654E+02	9.604E+02	5.475E+02	5.446E+02	3.521E+02	3.503E+02	1.807E+02	1.797E+02	8.892E+03	8.845E+03
15	4.250E+02	4.191E+02	1.919E+02	1.893E+02	1.088E+02	1.073E+02	7.000E+03	6.903E+03	3.592E+03	3.542E+03	1.768E+03	1.743E+03
20	1.357E+02	1.321E+02	6.127E+03	5.966E+03	3.474E+03	3.383E+03	2.235E+03	2.176E+03	1.147E+03	1.116E+03	5.643E+04	5.494E+04
30	2.749E+03	2.578E+03	1.241E+03	1.164E+03	7.040E+04	6.604E+04	4.528E+04	4.247E+04	2.323E+04	2.179E+04	1.143E+04	1.072E+04
45	5.752E+04	4.944E+04	2.597E+04	2.233E+04	1.473E+04	1.268E+04	9.474E+05	8.143E+05	4.861E+05	4.178E+05	2.392E+05	2.056E+05
60	1.974E+04	1.493E+04	8.913E+05	6.741E+05	5.055E+05	3.823E+05	3.251E+05	2.459E+05	1.664E+05	1.261E+05	8.209E+06	6.208E+06
75	8.982E+05	5.708E+05	4.056E+05	2.577E+05	2.300E+05	1.461E+05	1.847E+05	9.399E+06	7.591E+06	4.823E+06	3.736E+06	2.373E+06
90	4.934E+05	2.494E+05	2.228E+05	1.126E+05	1.264E+05	8.384E+06	8.127E+06	4.106E+06	4.170E+06	2.107E+06	2.052E+06	1.037E+06
120	2.193E+05	5.555E+06	9.903E+06	2.506E+06	5.810E+06	1.421E+06	3.612E+06	9.136E+07	1.853E+06	4.687E+07	9.121E+07	2.306E+07
150	1.417E+05	9.688E+07	6.399E+06	4.355E+07	3.629E+06	2.466E+07	2.334E+06	1.585E+07	1.198E+06	8.125E+08	5.894E+07	3.997E+08
179	1.234E+05	8.609E+09	5.572E+06	1.993E+09	3.160E+06	7.446E+10	2.032E+06	3.648E+10	1.043E+06	1.349E+10	5.131E+07	5.272E+11

ME (2)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	8.955E+11	8.960E+11	3.984E+11	3.986E+11	2.243E+11	2.244E+11	9.989E+10	9.994E+10	5.629E+10	5.633E+10	3.610E+10	3.612E+10
2	5.598E+10	5.601E+10	2.490E+10	2.492E+10	1.402E+10	1.403E+10	6.244E+09	6.248E+09	3.519E+09	3.521E+09	2.256E+09	2.258E+09
3	1.106E+10	1.107E+10	4.920E+09	4.923E+09	2.770E+09	2.772E+09	1.234E+09	1.234E+09	6.953E+08	6.958E+08	4.458E+08	4.462E+08
4	3.501E+09	3.503E+09	1.557E+09	1.558E+09	8.769E+08	8.775E+08	3.905E+08	3.908E+08	2.201E+08	2.202E+08	1.411E+08	1.412E+08
6	6.922E+08	6.927E+08	3.079E+08	3.082E+08	1.734E+08	1.735E+08	7.721E+07	7.727E+07	4.351E+07	4.355E+07	2.790E+07	2.793E+07
8	2.193E+08	2.195E+08	9.757E+07	9.765E+07	5.494E+07	5.498E+07	2.446E+07	2.448E+07	1.379E+07	1.380E+07	8.841E+06	8.849E+06
10	9.000E+07	9.007E+07	4.004E+07	4.007E+07	2.254E+07	2.256E+07	1.004E+07	1.005E+07	5.658E+06	5.663E+06	3.628E+06	3.631E+06
15	1.789E+07	1.791E+07	7.959E+06	7.966E+06	4.481E+06	4.486E+06	1.994E+06	1.998E+06	1.125E+06	1.126E+06	7.212E+05	7.219E+05
20	5.711E+06	5.717E+06	2.541E+06	2.543E+06	1.431E+06	1.432E+06	6.371E+05	6.377E+05	3.591E+05	3.594E+05	2.302E+05	2.305E+05
30	1.157E+06	1.158E+06	5.149E+05	5.153E+05	2.899E+05	2.902E+05	1.291E+05	1.292E+05	7.275E+04	7.281E+04	4.665E+04	4.668E+04
45	2.421E+05	2.423E+05	1.077E+05	1.078E+05	6.065E+04	6.069E+04	2.701E+04	2.702E+04	1.522E+04	1.522E+04	9.781E+03	9.756E+03
60	8.309E+04	8.313E+04	3.696E+04	3.697E+04	2.081E+04	2.081E+04	9.268E+03	9.260E+03	5.223E+03	5.215E+03	3.349E+03	3.341E+03
75	3.781E+04	3.782E+04	1.682E+04	1.681E+04	9.472E+03	9.461E+03	4.218E+03	4.208E+03	2.377E+03	2.369E+03	1.524E+03	1.517E+03
90	2.077E+04	2.076E+04	9.241E+03	9.229E+03	5.203E+03	5.192E+03	2.317E+03	2.308E+03	1.306E+03	1.298E+03	8.374E+02	8.311E+02
120	9.232E+03	9.217E+03	4.107E+03	4.095E+03	2.313E+03	2.302E+03	1.030E+03	1.022E+03	5.804E+02	5.746E+02	3.722E+02	3.674E+02
150	5.966E+03	5.950E+03	2.654E+03	2.642E+03	1.494E+03	1.485E+03	6.654E+02	6.589E+02	3.750E+02	3.700E+02	2.405E+02	2.364E+02
179	5.194E+03	5.179E+03	2.311E+03	2.299E+03	1.301E+03	1.292E+03	5.793E+02	5.732E+02	3.265E+02	3.218E+02	2.094E+02	2.055E+02
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.849E+10	1.850E+10	9.111E+09	9.117E+09	4.088E+09	4.091E+09	2.321E+09	2.322E+09	1.050E+09	1.051E+09	6.015E+08	6.019E+08
2	1.156E+09	1.156E+09	5.696E+08	5.699E+08	2.555E+08	2.557E+08	1.451E+08	1.452E+08	6.567E+07	6.572E+07	3.760E+07	3.763E+07
3	2.283E+08	2.285E+08	1.125E+08	1.126E+08	5.049E+07	5.053E+07	2.867E+07	2.869E+07	1.297E+07	1.299E+07	7.428E+06	7.435E+06
4	7.228E+07	7.233E+07	3.562E+07	3.565E+07	1.598E+07	1.599E+07	9.073E+06	9.081E+06	4.107E+06	4.110E+06	2.351E+06	2.354E+06
6	1.429E+07	1.430E+07	7.043E+06	7.049E+06	3.160E+06	3.163E+06	1.794E+06	1.796E+06	8.120E+05	8.128E+05	4.649E+05	4.654E+05
8	4.528E+06	4.532E+06	2.232E+06	2.234E+06	1.001E+06	1.002E+06	5.685E+05	5.690E+05	2.573E+05	2.576E+05	1.473E+05	1.475E+05
10	1.858E+06	1.860E+06	9.157E+05	9.166E+05	4.109E+05	4.113E+05	2.333E+05	2.335E+05	1.056E+05	1.057E+05	6.045E+04	6.050E+04
15	3.694E+05	3.698E+05	1.820E+05	1.822E+05	8.167E+04	8.174E+04	4.637E+04	4.641E+04	2.099E+04	2.100E+04	1.202E+04	1.202E+04
20	1.179E+05	1.180E+05	5.811E+04	5.816E+04	2.607E+04	2.609E+04	1.480E+04	1.481E+04	6.700E+03	6.697E+03	3.836E+03	3.832E+03
30	2.389E+04	2.394E+04	1.178E+04	1.177E+04	5.283E+03	5.278E+03	2.999E+03	2.994E+03	1.358E+03	1.353E+03	7.773E+02	7.731E+02
45	4.999E+03	4.992E+03	2.464E+03	2.457E+03	1.105E+03	1.100E+03	6.276E+02	6.231E+02	2.841E+02	2.808E+02	1.626E+02	1.601E+02
60	1.715E+03	1.709E+03	8.454E+02	8.400E+02	3.793E+02	3.753E+02	2.154E+02	2.122E+02	9.747E+01	9.529E+01	5.581E+01	5.414E+01
75	7.807E+02	7.750E+02	3.847E+02	3.805E+02	1.726E+02	1.696E+02	9.800E+01	9.569E+01	4.436E+01	4.278E+01	2.540E+01	2.420E+01
90	4.289E+02	4.242E+02	2.114E+02	2.079E+02	9.483E+01	9.246E+01	5.384E+01	5.203E+01	2.437E+01	2.315E+01	1.395E+01	1.304E+01
120	1.906E+02	1.871E+02	9.394E+01	9.144E+01	4.215E+01	4.048E+01	2.393E+01	2.266E+01	1.083E+01	9.982E+00	6.201E+00	5.567E+00
150	1.232E+02	1.202E+02	6.070E+01	5.862E+01	2.723E+01	2.584E+01	1.546E+01	1.441E+01	6.998E+00	6.303E+00	4.007E+00	3.489E+00
179	1.072E+02	1.045E+02	5.285E+01	5.089E+01	2.371E+01	2.240E+01	1.346E+01	1.248E+01	6.093E+00	5.441E+00	3.488E+00	3.003E+00
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	3.918E+08	3.919E+08	2.045E+08	2.067E+08	1.060E+08	1.061E+08	5.054E+07	5.058E+07	3.026E+07	3.028E+07	1.485E+07	1.496E+07
2	2.448E+07	2.450E+07	1.212E+07	1.292E+07	6.627E+06	6.633E+06	3.159E+06	3.162E+06	1.891E+06	1.893E+06	9.345E+05	9.354E+05
3	4.837E+06	4.841E+06	2.551E+06	2.553E+06	1.309E+06	1.311E+06	6.242E+05	6.248E+05	3.737E+05	3.741E+05	1.846E+05	1.849E+05
4	1.531E+06	1.532E+06	8.074E+05	8.082E+05	4.144E+05	4.149E+05	1.976E+05	1.978E+05	1.183E+05	1.184E+05	5.844E+04	5.850E+04
6	3.027E+05	3.030E+05	1.596E+05	1.598E+05	8.195E+04	8.203E+04	3.907E+04	3.910E+04	2.339E+04	2.341E+04	1.156E+04	1.156E+04
8	7.592E+04	7.601E+04	5.058E+04	5.063E+04	2.597E+04	2.598E+04	1.230E+04	1.238E+04	7.410E+03	7.413E+03	3.661E+03	3.661E+03
10	3.336E+04	3.339E+04	2.076E+04	2.077E+04	1.065E+04	1.066E+04	5.080E+03	5.079E+03	3.041E+03	3.039E+03	1.502E+03	1.501E+03
15	7.824E+03	7.823E+03	4.126E+03	4.123E+03	2.118E+03	2.115E+03	1.010E+03	1.007E+03	6.045E+02	6.021E+02	2.987E+02	2.970E+02
20	2.498E+03	2.493E+03	1.317E+03	1.313E+03	6.762E+02	6.759E+02	3.223E+02	3.200E+02	1.930E+02	1.912E+02	9.535E+01	9.416E+01
30	5.061E+02	5.025E+02	2.669E+02	2.642E+02	1.370E+02	1.350E+02	6.532E+01	6.396E+01	3.910E+01	3.810E+01	1.932E+01	1.868E+01
45	1.059E+02	1.038E+02	5.585E+01	5.432E+01	2.867E+01	2.760E+01	1.367E+01	1.296E+01	8.181E+00	7.670E+00	4.042E+00	3.722E+00
60	3.634E+01	3.499E+01	1.916E+01	1.820E+01	9.837E+00	9.167E+00	4.689E+00	4.255E+00	2.807E+00	2.493E+00	1.387E+00	1.191E+00
75	1.654E+01	1.558E+01	8.721E+00	8.041E+00	4.477E+00	4.008E+00	2.134E+00	1.832E+00	1.278E+00	1.059E+00	6.312E+00	4.960E+00
90	9.084E+00	8.354E+00	4.791E+00	4.274E+00	2.459E+00	2.104E+00	1.172E+00	9.444E+00	7.018E+00	5.373E+00	3.468E+00	2.450E+00
120	4.037E+00	3.534E+00	2.129E+00	1.775E+00	1.093E+00	8.506E+00	5.211E+00	3.659E+00	3.119E+00	2.002E+00	1.541E+00	8.514E+00
150	2.609E+00	2.198E+00	1.376E+00	1.087E+00	7.063E+00	5.093E+00	3.367E+00	2.108E+00	2.016E+00	1.110E+00	9.939E+00	4.372E+00
179	2.271E+00	1.886E+00	1.198E+00	9.275E+00	6.149E+00	4.305E+00	2.931E+00	1.754E+00	1.755E+00	9.073E+00	8.671E+00	3.446E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	9.171E+06	9.178E+06	6.310E+06	6.315E+06	3.608E+06	3.611E+06	1.996E+06	1.998E+06	1.010E+06	1.011E+06	6.170E+05	6.176E+05
2	5.732E+05	5.738E+05	3.944E+05	3.948E+05	2.256E+05	2.258E+05	1.248E+05	1.249E+05	6.315E+04	6.322E+04	3.857E+04	3.861E+04
3	1.133E+05	1.134E+05	7.793E+04	7.801E+04	4.456E+04	4.461E+04	2.466E+04	2.468E+04	1.248E+04	1.249E+04	7.621E+03	7.629E+03
4	3.585E+04	3.589E+04	2.467E+04	2.469E+04	1.411E+04	1.412E+04	7.804E+03	7.812E+03	3.949E+03	3.953E+03	2.412E+03	2.414E+03
6	7.089E+03	7.093E+03	4.877E+03	4.880E+03	2.789E+03	2.790E+03	1.543E+03	1.544E+03	7.809E+02	7.811E+02	4.770E+02	4.770E+02
8	2.246E+03	2.245E+03	1.545E+03	1.545E+03	8.838E+02	8.831E+02	4.890E+02	4.885E+02	2.474E+02	2.472E+02	1.511E+02	1.510E+02
10	9.217E+02	9.202E+02	6.342E+02	6.329E+02	3.626E+02	3.618E+02	2.006E+02	2.001E+02	1.015E+02	1.012E+02	6.202E+01	6.182E+01
15	1.832E+02	1.820E+02	1.261E+02	1.251E+02	7.209E+01	7.147E+01	3.989E+01	3.950E+01	2.018E+01	1.998E+01	1.233E+01	1.220E+01
20	5.849E+01	5.764E+01	4.024E+01	3.959E+01	2.301E+01	2.260E+01	1.273E+01	1.248E+01	6.443E+00	6.307E+00	3.936E+00	3.850E+00
30	1.185E+01	1.140E+01	8.154E+00	7.815E+00	4.663E+00	4.447E+00	2.580E+00	2.450E+00	1.306E+00	1.236E+00	7.974E-01	7.537E-01
45	2.480E+00	2.255E+00	1.706E+00	1.537E+00	9.757E-01	8.685E-01	5.398E-01	4.757E-01	2.732E-01	2.388E-01	1.669E-01	1.453E-01
60	8.509E-01	7.138E-01	5.855E-01	4.827E-01	3.348E-01	2.697E-01	1.852E-01	1.464E-01	9.374E-02	7.292E-02	5.725E-02	4.422E-02
75	3.872E-01	2.927E-01	2.664E-01	1.955E-01	1.524E-01	1.076E-01	8.430E-02	5.755E-02	4.266E-02	2.835E-02	2.606E-02	1.709E-02
90	2.127E-01	1.411E-01	1.464E-01	9.317E-02	8.370E-02	5.007E-02	4.631E-02	2.624E-02	2.343E-02	1.270E-02	1.431E-02	7.594E-03
120	9.454E-02	6.441E-02	6.505E-02	2.905E-02	3.720E-02	1.446E-02	2.058E-02	7.022E-03	1.042E-02	3.165E-03	6.362E-03	1.823E-03
150	6.109E-02	2.212E-02	4.203E-02	1.290E-02	2.404E-02	5.642E-03	1.330E-02	2.331E-03	6.730E-03	8.670E-04	4.111E-03	4.407E-04
179	5.319E-02	1.675E-02	3.660E-02	9.360E-03	2.093E-02	3.731E-03	1.158E-02	1.326E-03	5.860E-03	3.791E-04	3.579E-03	1.486E-04
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	3.027E+05	3.030E+05	1.803E+05	1.804E+05	1.198E+05	1.199E+05	6.396E+04	6.402E+04	3.251E+04	3.254E+04	1.469E+04	1.490E+04
2	1.892E+04	1.894E+04	1.127E+04	1.128E+04	7.486E+03	7.484E+03	3.998E+03	4.002E+03	2.032E+03	2.034E+03	9.309E+02	9.318E+02
3	3.739E+03	3.742E+03	2.227E+03	2.229E+03	1.479E+03	1.481E+03	7.899E+02	7.908E+02	4.015E+02	4.020E+02	1.839E+02	1.841E+02
4	1.183E+03	1.184E+03	7.048E+02	7.054E+02	4.682E+02	4.686E+02	2.500E+02	2.503E+02	1.271E+02	1.272E+02	5.821E+01	5.826E+01
6	2.340E+02	2.345E+02	1.394E+02	1.394E+02	9.257E+01	9.258E+01	4.944E+01	4.944E+01	2.513E+01	2.513E+01	1.151E+01	1.151E+01
8	7.414E+01	7.405E+01	4.415E+01	4.410E+01	2.933E+01	2.939E+01	1.567E+01	1.564E+01	7.963E+00	7.952E+00	3.647E+00	3.642E+00
10	3.042E+01	3.032E+01	1.812E+01	1.806E+01	1.204E+01	1.200E+01	6.428E+00	6.407E+00	3.268E+00	3.257E+00	1.497E+00	1.492E+00
15	6.048E+00	5.982E+00	3.602E+00	3.562E+00	2.393E+00	2.366E+00	1.278E+00	1.264E+00	6.496E+00	6.423E+00	2.975E+00	2.942E+00
20	1.931E+00	1.887E+00	1.150E+00	1.124E+00	7.638E-01	7.465E-01	4.079E-01	3.986E-01	2.074E-01	2.026E-01	9.498E-02	9.280E-02
30	3.912E-01	3.692E-01	2.330E-01	2.198E-01	1.548E-01	1.460E-01	8.266E-02	7.793E-02	4.202E-02	3.961E-02	1.924E-02	1.814E-02
45	8.185E-02	7.105E-02	4.875E-02	4.226E-02	3.238E-02	2.805E-02	1.729E-02	1.497E-02	8.791E-03	7.608E-03	4.027E-03	3.484E-03
60	2.809E-02	2.155E-02	1.673E-02	1.280E-02	1.111E-02	8.493E-03	5.935E-03	4.530E-03	3.017E-03	2.301E-03	1.382E-03	1.053E-03
75	1.278E-02	8.292E-03	7.612E-03	4.915E-03	5.057E-03	3.257E-03	2.701E-03	1.736E-03	1.373E-03	8.811E-04	6.288E-04	4.033E-04
90	7.022E-03	3.655E-03	4.182E-03	2.160E-03	2.778E-03	1.459E-03	1.484E-03	7.601E-04	7.542E-04	3.855E-04	3.854E-04	1.764E-04
120	3.121E-03	8.472E-04	1.859E-03	4.929E-04	1.859E-03	3.239E-04	6.594E-04	1.708E-04	3.352E-04	8.627E-05	1.935E-04	3.937E-05
150	2.017E-03	1.781E-04	1.201E-03	9.674E-05	7.978E-04	6.112E-05	4.261E-04	3.106E-05	2.166E-04	1.533E-05	9.920E-05	6.904E-06
179	1.756E-03	3.735E-05	1.046E-03	1.351E-05	6.946E-04	6.031E-06	3.710E-04	1.747E-06	1.886E-04	4.607E-07	8.637E-05	1.005E-07
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	8.508E+03	8.516E+03	3.842E+03	3.846E+03	2.179E+03	2.181E+03	1.401E+03	1.403E+03	7.191E+02	7.197E+02	3.539E+02	3.542E+02
2	5.318E+02	5.324E+02	2.402E+02	2.404E+02	1.362E+02	1.364E+02	8.761E+01	8.770E+01	4.495E+01	4.500E+01	2.212E+01	2.214E+01
3	1.051E+02	1.052E+02	4.746E+01	4.751E+01	2.691E+01	2.694E+01	1.731E+01	1.733E+01	8.882E+00	8.891E+00	4.371E+00	4.375E+00
4	3.324E+01	3.329E+01	1.502E+01	1.503E+01	8.518E+00	8.556E+00	5.479E+00	5.484E+00	2.811E+00	2.814E+00	1.383E+00	1.385E+00
6	6.577E+00	6.577E+00	2.970E+00	2.970E+00	1.684E+00	1.685E+00	1.083E+00	1.083E+00	5.559E-01	5.559E-01	2.735E-01	2.736E-01
8	2.084E+00	2.081E+00	9.411E-01	9.399E-01	5.337E-01	5.330E-01	3.433E-01	3.428E-01	1.761E-01	1.759E-01	8.668E-02	8.656E-02
10	8.551E-01	8.522E-01	3.862E-01	3.849E-01	2.190E-01	2.183E-01	1.409E-01	1.404E-01	7.227E-02	7.203E-02	3.557E-02	3.545E-02
15	1.700E-01	1.681E-01	7.677E-02	7.591E-02	4.354E-02	4.305E-02	2.800E-02	2.769E-02	1.437E-02	1.421E-02	7.070E-03	6.991E-03
20	5.427E-02	5.302E-02	2.451E-02	2.394E-02	1.390E-02	1.358E-02	8.939E-03	8.734E-03	4.587E-03	4.481E-03	2.257E-03	2.205E-03
30	1.108E-02	1.036E-02	4.966E-03	4.680E-03	2.816E-03	2.659E-03	1.811E-03	1.707E-03	9.294E-04	8.759E-04	4.573E-04	4.310E-04
45	2.301E-03	1.990E-03	1.039E-03	8.989E-04	5.892E-04	5.097E-04	3.790E-04	3.278E-04	1.945E-04	1.682E-04	9.569E-05	8.278E-05
60	7.894E-04	6.018E-04	3.565E-04	2.718E-04	2.607E-04	1.541E-04	1.300E-04	9.911E-05	6.673E-05	5.086E-05	3.284E-05	2.503E-05
75	3.592E-04	2.304E-04	1.622E-04	1.040E-04	9.201E-05	5.869E-05	5.918E-05	3.793E-05	3.037E-05	1.946E-05	1.494E-05	9.578E-06
90	1.974E-04	1.007E-04	8.913E-05	4.547E-05	5.055E-05	2.578E-05	3.251E-05	1.658E-05	1.668E-05	8.509E-06	8.209E-06	4.187E-06
120	8.772E-05	2.246E-05	3.961E-05	1.013E-05	2.247E-05	5.745E-06	1.445E-05	3.695E-06	7.414E-06	1.895E-06	3.648E-06	1.327E-07
150	5.668E-05	3.920E-06	2.560E-05	1.762E-06	1.452E-05	9.977E-07	9.336E-06	6.412E-07	4.791E-06	3.288E-07	2.358E-06	1.617E-07
179	4.935E-05	3.450E-08	2.229E-05	7.994E-09	1.264E-05	2.948E-09	8.129E-06	1.467E-09	4.171E-06	5.445E-10	2.053E-06	2.132E-10

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5F-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	2.015E+12	2.016E+12	0.964E+11	8.969E+11	5.047E+11	5.050E+11	2.247E+11	2.249E+11	1.267E+11	1.267E+11	8.122E+10	8.127E+10
2	1.259E+11	1.260E+11	5.603E+10	5.607E+10	3.155E+10	3.157E+10	1.405E+10	1.406E+10	7.918E+09	7.923F+09	5.077E+09	5.081E+09
3	2.488E+10	2.490E+10	1.107E+10	1.108E+10	6.233E+09	6.238E+09	2.776E+09	2.778E+09	1.564E+09	1.566E+09	1.003F+09	1.004E+09
4	7.876E+09	7.882E+09	3.504E+09	3.507E+09	1.973E+09	1.974E+09	8.786E+08	8.793E+08	4.952E+08	4.956E+08	3.175E+08	3.178E+08
6	1.557E+09	1.559E+09	6.929E+08	6.934E+08	3.901E+08	3.904E+08	1.737E+08	1.739E+08	9.791E+07	9.800E+07	6.278F+07	6.284E+07
8	4.935E+08	4.939E+08	2.195E+08	2.197E+08	1.236E+08	1.237E+08	5.504E+07	5.510E+07	3.102E+07	3.106E+07	1.949E+07	1.991E+07
10	2.025E+08	2.027E+08	9.009E+07	9.017E+07	5.072E+07	5.077E+07	2.259E+07	2.261E+07	1.273E+07	1.274E+07	8.163E+06	8.173E+06
15	4.025E+07	4.029E+07	1.791E+07	1.793E+07	1.008E+07	1.010E+07	4.490E+06	4.496E+06	2.531E+06	2.534E+06	1.623E+06	1.625E+06
20	1.285E+07	1.287E+07	5.717E+06	5.724E+06	3.219E+06	3.223E+06	1.433E+06	1.435E+06	8.079E+05	8.090F+05	5.180E+05	5.188E+05
30	2.604E+06	2.607E+06	1.158E+06	1.160E+06	6.522E+05	6.532E+05	2.904E+05	2.909E+05	1.637E+05	1.639F+05	1.050F+05	1.051E+05
45	5.448E+05	5.456E+05	2.424E+05	2.427E+05	1.365E+05	1.366E+05	6.077E+04	6.083E+04	3.425E+04	3.428E+04	2.196F+04	2.197E+04
60	1.870E+05	1.872E+05	8.317E+04	8.325E+04	4.683E+04	4.686E+04	2.085E+04	2.085E+04	1.175E+04	1.175E+04	7.536E+03	7.526E+03
75	8.508E+04	8.515E+04	3.785E+04	3.786E+04	2.131E+04	2.131E+04	9.490E+03	9.477E+03	5.348E+03	5.335F+03	3.430E+03	3.417E+03
80	4.678E+04	4.675E+04	2.079E+04	2.078E+04	1.171E+04	1.169E+04	5.213E+03	5.198E+03	2.938E+03	2.924F+03	1.884E+03	1.872E+03
120	2.077E+04	2.075E+04	5.241E+03	5.220E+03	5.203E+03	5.184E+03	2.317E+03	2.302E+03	1.306E+03	1.294E+03	8.374E+02	8.273E+02
150	1.342E+04	1.340E+04	9.971E+03	9.949E+03	3.362E+03	3.344E+03	1.497E+03	1.484E+03	8.438E+02	8.331E+02	5.411E+02	5.323E+02
179	1.169E+04	1.166E+04	5.199E+03	5.177E+03	2.927E+03	2.909E+03	1.304E+03	1.296E+03	7.347E+02	7.244F+02	4.711F+02	4.627E+02
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	4.160E+10	4.163E+10	2.050E+10	2.051E+10	9.198E+09	9.204E+09	5.222E+09	5.226E+09	2.364E+09	2.365E+09	1.353E+09	1.354E+09
2	2.600E+09	2.602E+09	1.281E+09	1.282E+09	5.750E+08	5.744E+08	3.264E+08	3.267E+08	1.477E+08	1.479E+08	8.459E+07	8.467E+07
3	5.138E+08	5.142E+08	2.532E+08	2.534E+08	1.136E+08	1.137E+08	6.450E+07	6.456E+07	2.919E+07	2.922E+07	1.671E+07	1.673E+07
4	1.626E+08	1.628E+08	8.014E+07	8.022E+07	3.596E+07	3.599E+07	2.041E+07	2.044E+07	9.240E+06	9.251E+06	5.290F+06	5.297E+06
6	3.216E+07	3.219E+07	1.585E+07	1.586E+07	7.110E+06	7.118E+06	4.037E+06	4.042E+06	1.827E+06	1.830E+06	1.046F+06	1.048E+06
8	1.019E+07	1.020E+07	5.021E+06	5.027E+06	2.253E+06	2.256E+06	1.279E+06	1.281E+06	5.789E+05	5.798E+05	3.314F+05	3.320E+05
10	4.181E+06	4.186E+06	2.060E+06	2.063E+06	9.244E+05	9.258E+05	5.248E+05	5.257E+05	2.376E+05	2.379F+05	1.360F+05	1.362E+05
15	8.311E+05	8.323E+05	4.096E+05	4.102E+05	1.838E+05	1.841E+05	1.043E+05	1.045E+05	4.722E+04	4.729E+04	2.704F+04	2.707E+04
20	2.653E+05	2.657E+05	1.308E+05	1.309E+05	5.866E+04	5.874E+04	3.331E+04	3.335E+04	1.508E+04	1.509E+04	8.631E+03	8.633E+03
30	5.376E+04	5.383E+04	2.649E+04	2.652E+04	1.189E+04	1.189E+04	6.749E+03	6.745E+03	3.055E+03	3.048E+03	1.749F+03	1.743E+03
45	1.125E+04	1.125E+04	5.543E+03	5.536E+03	2.487E+03	2.479E+03	1.412E+03	1.404E+03	6.391E+02	6.331E+02	3.659E+02	3.610E+02
60	3.860E+03	3.849E+03	1.902E+03	1.893E+03	8.534E+02	8.459E+02	4.845E+02	4.784E+02	2.193E+02	2.149E+02	1.256F+02	1.221E+02
75	1.757E+03	1.746E+03	8.657E+02	8.673E+02	3.884E+02	3.853E+02	2.205E+02	2.157E+02	9.981E+01	9.647F+01	5.714F+01	5.460E+01
80	9.650E+02	9.555E+02	4.755E+02	4.748E+02	2.134E+02	2.084E+02	1.211E+02	1.173E+02	5.483E+01	5.220F+01	3.139F+01	2.940E+01
120	4.289E+02	4.214E+02	2.114E+02	2.059E+02	9.483E+01	9.113E+01	5.384E+01	5.104E+01	2.437E+01	2.249E+01	1.395F+01	1.255E+01
150	2.771E+02	2.707E+02	1.366E+02	1.324E+02	6.127E+01	5.818E+01	3.479E+01	3.246E+01	1.575E+01	1.419E+01	9.015E+00	7.857E+00
179	2.413E+02	2.351E+02	1.189E+02	1.146E+02	5.335E+01	5.042E+01	3.029E+01	2.809E+01	1.371E+01	1.225E+01	7.849F+00	6.760E+00
DEG	8.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	8.811E+08	8.818E+08	4.647E+08	4.651E+08	2.385E+08	2.387E+08	1.137E+08	1.138E+08	6.808E+07	6.814E+07	3.364E+07	3.367E+07
2	5.508E+07	5.513E+07	2.905E+07	2.908E+07	1.491E+07	1.493E+07	7.108E+06	7.117E+06	4.255E+06	4.261E+06	2.103E+06	2.105E+06
3	1.088E+07	1.090E+07	5.739E+06	5.746E+06	2.946E+06	2.950E+06	1.404E+06	1.406E+06	8.408E+05	8.420F+05	4.154E+05	4.160E+05
4	3.445E+06	3.449E+06	1.817E+06	1.819E+06	9.325E+05	9.339E+05	4.445E+05	4.452E+05	2.661E+05	2.665F+05	1.315F+05	1.317E+05
6	6.811E+05	6.821E+05	3.592E+05	3.598E+05	1.844E+05	1.847E+05	8.790E+04	8.804E+04	5.262E+04	5.271E+04	2.600F+04	2.604E+04
8	2.158E+05	2.162E+05	1.138E+05	1.140E+05	5.842E+04	5.852E+04	2.785E+04	2.789E+04	1.667E+04	1.670E+04	8.238F+03	8.247E+03
10	8.856E+04	8.870E+04	4.670E+04	4.677E+04	2.397E+04	2.401E+04	1.143E+04	1.144E+04	6.842E+03	6.847E+03	3.380F+03	3.381E+03
15	1.760E+04	1.762E+04	9.284E+03	9.289E+03	4.766E+03	4.765E+03	2.272E+03	2.269E+03	1.360E+03	1.357E+03	6.720F+02	6.696E+02
20	5.620E+03	5.618E+03	2.964E+03	2.960E+03	1.521E+03	1.517E+03	7.253E+02	7.216E+02	4.342E+02	4.312E+02	2.145E+02	2.124E+02
30	1.139E+03	1.133E+03	6.005E+02	5.957E+02	3.083E+02	3.046E+02	1.470E+02	1.444E+02	8.798E+01	8.601E+01	4.347F+01	4.220E+01
45	2.383E+02	2.342E+02	1.257E+02	1.226E+02	6.450E+01	6.230E+01	3.075E+01	2.929E+01	1.841E+01	1.733F+01	9.095E+00	8.416E+00
60	8.176E+01	7.895E+01	4.312E+01	4.188E+01	2.213E+01	2.070E+01	1.055E+01	9.617E+00	6.317E+00	5.636F+00	3.121F+00	2.696E+00
75	3.721E+01	3.515E+01	1.962E+01	1.815E+01	1.007E+01	9.063E+00	4.802E+00	4.141E+00	2.875E+00	2.395F+00	1.420F+00	1.123E+00
80	2.044E+01	1.884E+01	1.078E+01	9.645E+00	5.533E+00	4.751E+00	2.630E+00	2.134E+00	1.579E+00	1.215F+00	7.802E+00	5.544E+00
120	9.084E+00	7.965E+00	4.791E+00	4.601E+00	2.459E+00	1.918E+00	1.172E+00	8.257E+00	7.018E+00	4.519E+00	3.468E+00	1.924E+00
150	5.870E+00	4.950E+00	3.096E+00	2.448E+00	1.589E+00	1.147E+00	7.576E+00	4.749E+00	4.535E+00	2.500E+00	2.241F+00	9.854E+00
179	5.111E+00	4.246E+00	2.695E+00	2.088E+00	1.384E+00	9.649E+00	6.596E+00	3.947E+00	3.948E+00	2.042F+00	1.951F+00	7.756E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01EV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	2.063E+07	2.065E+07	1.420E+07	1.421E+07	8.119E+06	8.127E+06	4.492E+06	4.497E+06	2.273E+06	2.275E+06	1.388E+06	1.390E+06
2	1.290E+06	1.292E+06	8.874E+05	8.886E+05	5.075E+05	5.082E+05	2.808E+05	2.812E+05	1.421E+05	1.423E+05	8.679E+04	8.691E+04
3	2.548E+05	2.552E+05	1.753E+05	1.756E+05	1.003E+05	1.004E+05	5.548E+04	5.557E+04	2.807E+04	2.812E+04	1.715E+04	1.717E+04
4	8.060E+04	8.060E+04	5.550E+04	5.559E+04	3.174E+04	3.179E+04	1.756E+04	1.759E+04	8.886E+03	8.901E+03	5.427E+03	5.436E+03
6	1.593E+04	1.597E+04	1.097E+04	1.099E+04	6.276E+03	6.284E+03	3.472E+03	3.477E+03	1.757E+03	1.759E+03	1.073E+03	1.075E+03
8	5.054E+03	5.059E+03	3.477E+03	3.480E+03	1.988E+03	1.990E+03	1.100E+03	1.101E+03	5.567E+02	5.569E+02	3.400E+02	3.401E+02
10	2.074E+03	2.074E+03	1.427E+03	1.426E+03	8.140E+02	8.145E+02	4.514E+02	4.510E+02	2.285E+02	2.282E+02	1.395E+02	1.394E+02
15	4.123E+02	4.104E+02	2.636E+02	2.621E+02	1.622E+02	1.612E+02	8.974E+01	8.911E+01	4.541E+01	4.506E+01	2.774E+01	2.752E+01
20	1.316E+02	1.311E+02	9.055E+01	8.935E+01	5.178E+01	5.160E+01	2.865E+01	2.817E+01	1.450E+01	1.424E+01	8.855E+00	8.691E+00
30	2.667E+01	2.572E+01	1.835E+01	1.766E+01	1.049E+01	1.005E+01	5.805E+00	5.538E+00	2.938E+00	2.794E+00	1.794E+00	1.704E+00
45	5.579E+00	5.100E+00	3.839E+00	3.478E+00	2.195E+00	1.964E+00	1.215E+00	1.077E+00	6.146E+00	5.407E+00	3.754E+00	3.291E+00
60	1.918E+00	1.614E+00	1.317E+00	1.093E+00	7.533E+01	6.111E+01	4.168E+01	3.317E+01	2.109E+01	1.653E+01	1.288E+01	1.043E+01
75	8.713E+01	6.627E+01	5.995E+01	4.432E+01	3.428E+01	2.438E+01	1.897E+01	1.305E+01	9.598E+02	6.433E+02	5.862E+02	3.880E+02
90	4.784E+01	3.207E+01	3.293E+01	2.111E+01	1.883E+01	1.135E+01	1.042E+01	5.955E+02	5.273E+02	2.884E+02	3.221E+02	1.725E+02
120	2.127E+01	1.049E+01	1.464E+01	6.575E+02	8.370E+02	3.276E+02	4.631E+02	1.593E+02	2.343E+02	7.187E+03	1.431E+02	4.143E+03
150	1.375E+01	4.989E+02	9.452E+02	2.911E+02	5.409E+02	1.274E+02	2.992E+02	5.270E+03	1.514E+02	1.963E+03	9.249E+03	9.992E+04
179	1.197E+01	3.771E+02	8.234E+02	2.107E+02	4.709E+02	8.368E+03	2.605E+02	5.280E+03	1.318E+02	8.533E+04	8.053E+03	3.345E+04
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	6.811E+05	6.818E+05	4.056E+05	4.061E+05	2.695E+05	2.697E+05	1.439E+05	1.441E+05	7.315E+04	7.323E+04	3.351E+04	3.354E+04
2	4.257E+04	4.263E+04	2.536E+04	2.539E+04	1.684E+04	1.687E+04	8.996E+03	9.009E+03	4.573E+03	4.579E+03	2.094E+03	2.097E+03
3	9.412E+03	9.425E+03	5.010E+03	5.018E+03	3.328E+03	3.333E+03	1.777E+03	1.780E+03	9.035E+02	9.049E+02	4.138E+02	4.145E+02
4	2.468E+03	2.467E+03	1.586E+03	1.588E+03	1.053E+03	1.065E+03	5.626E+02	5.635E+02	2.860E+02	2.864E+02	1.310E+02	1.312E+02
6	5.265E+02	5.271E+02	3.135E+02	3.139E+02	2.083E+02	2.086E+02	1.112E+02	1.114E+02	5.654E+01	5.662E+01	2.590E+01	2.593E+01
8	1.668E+02	1.669E+02	9.935E+01	9.937E+01	6.600E+01	6.601E+01	3.525E+01	3.525E+01	1.792E+01	1.792E+01	8.206E+00	8.208E+00
10	6.845E+01	6.836E+01	4.077E+01	4.071E+01	2.708E+01	2.704E+01	1.446E+01	1.444E+01	7.352E+00	7.341E+00	3.367E+00	3.362E+00
15	1.361E+01	1.349E+01	8.104E+00	8.036E+00	5.384E+00	5.338E+00	2.875E+00	2.851E+00	1.461E+00	1.449E+00	6.694E+01	6.637E+01
20	4.344E+00	4.261E+00	2.587E+00	2.537E+00	1.719E+00	1.685E+00	9.179E+01	9.000E+01	4.666E+01	4.575E+01	2.137E+01	2.095E+01
30	8.802E+01	8.347E+01	5.242E+01	4.969E+01	3.482E+01	3.300E+01	1.860E+01	1.762E+01	9.454E+02	8.955E+02	4.330E+02	4.101E+02
45	1.842E+01	1.609E+01	1.097E+01	9.571E+02	7.286E+02	6.354E+02	3.891E+02	3.391E+02	1.978E+02	1.723E+02	9.060E+03	7.891E+03
60	6.319E+02	4.887E+02	3.764E+02	2.903E+02	2.500E+02	1.956E+02	1.335E+02	1.027E+02	6.787E+03	5.218E+03	3.109E+03	2.389E+03
75	2.874E+02	1.802E+02	1.713E+02	1.116E+02	1.138E+02	7.395E+03	6.077E+03	3.941E+03	3.089E+03	2.001E+03	1.415E+03	9.157E+04
90	1.588E+02	8.303E+03	9.409E+03	4.907E+03	6.251E+03	3.244E+03	3.338E+03	1.727E+03	1.697E+03	8.761E+04	7.722E+04	4.008E+04
120	7.022E+03	1.924E+03	4.182E+03	1.121E+03	2.778E+03	7.359E+04	1.484E+03	3.886E+04	7.542E+04	1.963E+04	3.544E+04	8.957E+05
150	4.537E+03	4.045E+04	2.702E+03	2.199E+04	1.795E+03	1.360E+04	9.587E+04	7.067E+05	4.873E+04	3.489E+05	2.232E+04	1.572E+05
179	3.950E+03	8.409E+05	2.353E+03	3.041E+05	1.563E+03	1.358E+05	8.347E+04	3.934E+06	4.243E+04	1.037E+06	1.943E+04	2.265E+07
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.914E+04	1.916E+04	8.645E+03	8.655E+03	4.903E+03	4.908E+03	3.153E+03	3.157E+03	1.818E+03	1.620E+03	7.962E+02	7.971E+02
2	1.197E+03	1.198E+03	5.404E+02	5.412E+02	3.065E+02	3.064E+02	1.971E+02	1.974E+02	1.011E+02	1.013E+02	4.977E+01	4.984E+01
3	2.348E+02	2.368E+02	1.068E+02	1.069E+02	6.055E+01	6.045E+01	3.895E+01	3.901E+01	1.998E+01	2.002E+01	9.834E+00	9.850E+00
4	7.484E+01	7.498E+01	3.380E+01	3.385E+01	1.917E+01	1.920E+01	1.233E+01	1.235E+01	6.325E+00	6.336E+00	3.113E+00	3.118E+00
6	1.488E+01	1.482E+01	6.683E+00	6.691E+00	3.790E+00	3.795E+00	2.437E+00	2.441E+00	1.251E+00	1.252E+00	6.155E+01	6.163E+01
8	4.689E+00	4.696E+00	2.117E+00	2.118E+00	1.201E+00	1.201E+00	7.723E+01	7.725E+01	3.963E+01	3.964E+01	1.950E+01	1.951E+01
10	1.924E+00	1.921E+00	9.689E+01	8.676E+01	4.828E+01	4.950E+01	3.169E+01	3.164E+01	1.626E+01	1.624E+01	8.003E+02	7.991E+02
15	3.825E+01	3.792E+01	1.727E+01	1.713E+01	9.795E+02	9.712E+02	6.300E+02	6.246E+02	3.233E+02	3.205E+02	1.591E+02	1.577E+02
20	1.221E+01	1.197E+01	5.514E+02	5.066E+02	3.127E+02	3.046E+02	2.011E+02	1.972E+02	1.032E+02	1.012E+02	5.078E+03	4.974E+03
30	2.474E+02	2.343E+02	1.117E+02	1.058E+02	6.336E+03	6.001E+03	4.075E+03	3.860E+03	2.091E+03	1.980E+03	1.029E+03	9.746E+03
45	5.178E+03	4.598E+03	2.338E+03	2.036E+03	1.326E+03	1.154E+03	8.527E+04	7.425E+04	4.375E+04	3.810E+04	2.153E+04	1.875E+04
60	1.776E+03	1.265E+03	8.022E+04	6.163E+04	4.549E+04	3.645E+04	2.926E+04	2.248E+04	1.501E+04	1.153E+04	7.388E+05	5.674E+05
75	8.083E+04	5.230E+04	3.651E+04	2.362E+04	2.070E+04	1.339E+04	1.332E+04	8.613E+05	6.832E+05	4.619E+05	3.362E+05	2.175E+05
90	4.441E+04	2.289E+04	2.005E+04	1.033E+04	1.137E+04	5.859E+05	7.315E+05	3.768E+05	3.753E+05	1.934E+05	1.847E+05	9.155E+06
120	1.974E+04	5.111E+05	8.913E+05	2.306E+05	5.095E+05	1.317E+05	2.512E+05	8.406E+06	1.688E+05	4.313E+06	8.209E+06	2.252E+06
150	1.275E+04	8.924E+06	5.759E+05	4.012E+06	3.266E+05	2.271E+06	2.101E+05	1.460E+06	1.078E+05	7.486E+07	5.304E+06	3.682E+07
179	1.118E+04	7.776E+06	5.014E+05	1.804E+06	2.844E+05	6.775E+09	1.829E+05	3.318E+09	9.385E+06	1.234E+09	4.618E+05	4.841E+10

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	3.582E+12	3.584E+12	1.594E+12	1.594E+12	8.972E+11	8.978E+11	3.995E+11	3.998E+11	2.252E+11	2.253E+11	1.444E+11	1.445E+11
2	2.239E+11	2.240E+11	9.961E+10	9.967E+10	5.609E+10	5.612E+10	2.498E+10	2.499E+10	1.408E+10	1.409E+10	9.026E+09	9.033E+09
3	4.424E+10	4.427E+10	1.968E+10	1.969E+10	1.108E+10	1.109E+10	4.935E+09	4.938E+09	2.781E+09	2.783E+09	1.785E+09	1.785E+09
4	1.400E+10	1.401E+10	6.229E+09	6.234E+09	3.507E+09	3.510E+09	1.562E+09	1.563E+09	8.803E+08	8.811E+08	5.645E+08	5.650E+08
6	2.769E+09	2.771E+09	1.232E+09	1.233E+09	6.935E+08	6.942E+08	3.088E+08	3.091E+08	1.741E+08	1.742E+08	1.116E+08	1.117E+08
8	8.773E+08	8.780E+08	3.903E+08	3.906E+08	2.198E+08	2.200E+08	9.786E+07	9.797E+07	5.515E+07	5.522E+07	3.537E+07	3.541E+07
10	3.600E+08	3.603E+08	1.602E+08	1.603E+08	9.018E+07	9.028E+07	4.016E+07	4.021E+07	2.263E+07	2.267E+07	1.451E+07	1.453E+07
15	7.156E+07	7.164E+07	3.184E+07	3.188E+07	1.793E+07	1.795E+07	7.983E+06	7.995E+06	4.499E+06	4.507E+06	2.885E+06	2.890E+06
20	2.285E+07	2.288E+07	1.016E+07	1.019E+07	5.723E+06	5.732E+06	2.548E+06	2.553E+06	1.436E+06	1.439E+06	9.209E+05	9.220E+05
30	4.629E+06	4.637E+06	2.059E+06	2.063E+06	1.160E+06	1.162E+06	5.164E+05	5.174E+05	2.910E+05	2.916E+05	1.866E+05	1.870E+05
45	9.686E+05	9.704E+05	4.309E+05	4.318E+05	2.426E+05	2.431E+05	1.080E+05	1.082E+05	6.089E+04	6.099E+04	3.904E+04	3.910E+04
60	3.324E+05	3.330E+05	1.479E+05	1.481E+05	8.325E+04	8.338E+04	3.707E+04	3.711E+04	2.089E+04	2.091E+04	1.340E+04	1.340E+04
75	1.513E+05	1.515E+05	6.729E+04	6.737E+04	3.789E+04	3.792E+04	1.687E+04	1.687E+04	9.508E+03	9.498E+03	6.097E+03	6.083E+03
90	8.309E+04	8.318E+04	3.696E+04	3.698E+04	2.081E+04	2.081E+04	9.268E+03	9.251E+03	5.223E+03	5.205E+03	3.349E+03	3.332E+03
120	3.693E+04	3.693E+04	1.643E+04	1.641E+04	9.250E+03	9.225E+03	4.119E+03	4.097E+03	2.322E+03	2.303E+03	1.489E+03	1.472E+03
150	2.386E+04	2.384E+04	1.062E+04	1.059E+04	5.977E+03	5.950E+03	2.662E+03	2.640E+03	1.500E+03	1.482E+03	9.619E+02	9.472E+02
179	2.078E+04	2.075E+04	9.243E+03	9.212E+03	5.204E+03	5.176E+03	2.317E+03	2.296E+03	1.306E+03	1.289E+03	8.375E+02	8.233E+02
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	7.395E+10	7.400E+10	3.645E+10	3.647E+10	1.635E+10	1.636E+10	9.284E+09	9.291E+09	4.202E+09	4.205E+09	2.406E+09	2.408E+09
2	4.623E+09	4.626E+09	2.278E+09	2.280E+09	1.022E+09	1.023E+09	5.803E+08	5.809E+08	2.627E+08	2.629E+08	1.504E+08	1.506E+08
3	9.134E+08	9.142E+08	4.501E+08	4.506E+08	2.020E+08	2.022E+08	1.147E+08	1.148E+08	5.190E+07	5.196E+07	2.971E+07	2.975E+07
4	2.891E+08	2.894E+08	1.425E+08	1.426E+08	6.392E+07	6.400E+07	3.629E+07	3.634E+07	1.643E+07	1.645E+07	9.495E+06	9.420E+06
6	5.716E+07	5.724E+07	2.817E+07	2.821E+07	1.264E+07	1.266E+07	7.176E+06	7.188E+06	3.248E+06	3.254E+06	1.860E+06	1.863E+06
8	1.811E+07	1.814E+07	8.926E+06	8.940E+06	4.005E+06	4.012E+06	2.274E+06	2.278E+06	1.029E+06	1.031E+06	5.892E+05	5.905E+05
10	7.433E+06	7.442E+06	3.663E+06	3.669E+06	1.643E+06	1.647E+06	9.331E+05	9.350E+05	4.223E+05	4.233E+05	2.418E+05	2.424E+05
15	1.478E+06	1.480E+06	7.282E+05	7.297E+05	3.267E+05	3.274E+05	1.855E+05	1.859E+05	8.395E+04	8.415E+04	4.807E+04	4.818E+04
20	4.717E+05	4.727E+05	2.325E+05	2.330E+05	1.043E+05	1.045E+05	5.921E+04	5.934E+04	2.640E+04	2.685E+04	1.534E+04	1.537E+04
30	9.558E+04	9.578E+04	4.710E+04	4.719E+04	2.113E+04	2.116E+04	1.200E+04	1.201E+04	5.430E+03	5.428E+03	3.109E+03	3.104E+03
45	2.000E+04	2.002E+04	9.855E+03	9.855E+03	4.422E+03	4.414E+03	2.510E+03	2.501E+03	1.136E+03	1.128E+03	6.505E+02	6.434E+02
60	6.862E+03	6.853E+03	3.382E+03	3.370E+03	1.571E+03	1.507E+03	8.614E+02	8.522E+02	3.899E+02	3.829E+02	2.232E+02	2.177E+02
75	3.123E+03	3.108E+03	1.539E+03	1.527E+03	6.905E+02	6.809E+02	3.920E+02	3.843E+02	1.774E+02	1.719E+02	1.016E+02	9.733E+01
90	1.715E+03	1.701E+03	8.454E+02	8.341E+02	3.793E+02	3.711E+02	2.154E+02	2.089E+02	9.747E+01	9.300E+01	5.581E+01	5.240E+01
120	7.624E+02	7.500E+02	3.757E+02	3.666E+02	1.686E+02	1.622E+02	9.571E+01	9.087E+01	4.332E+01	4.005E+01	2.480E+01	2.234E+01
150	4.927E+02	4.816E+02	2.428E+02	2.348E+02	1.089E+02	1.035E+02	6.185E+01	5.775E+01	2.799E+01	2.526E+01	1.603E+01	1.398E+01
179	4.289E+02	4.184E+02	2.114E+02	2.038E+02	9.484E+01	8.979E+01	5.385E+01	4.997E+01	2.437E+01	2.179E+01	1.395E+01	1.203E+01
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	1.566E+09	1.568E+09	8.261E+08	8.269E+08	4.241E+08	4.245E+08	2.022E+08	2.024E+08	1.210E+08	1.212E+08	5.980E+07	5.986E+07
2	9.792E+07	9.803E+07	5.164E+07	5.170E+07	2.651E+07	2.654E+07	1.264E+07	1.266E+07	7.565E+06	7.576E+06	3.738E+06	3.744E+06
3	1.935E+07	1.937E+07	1.020E+07	1.022E+07	5.237E+06	5.246E+06	2.497E+06	2.501E+06	1.497E+06	1.498E+06	7.385E+05	7.400E+05
4	6.124E+06	6.134E+06	3.229E+06	3.235E+06	1.658E+06	1.661E+06	7.903E+05	7.919E+05	4.731E+05	4.741E+05	2.338E+05	2.343E+05
6	1.211E+06	1.213E+06	6.386E+05	6.399E+05	3.278E+05	3.285E+05	1.563E+05	1.566E+05	9.555E+04	9.378E+04	4.622E+04	4.634E+04
8	3.837E+05	3.845E+05	2.023E+05	2.028E+05	1.039E+05	1.041E+05	4.951E+04	4.964E+04	2.964E+04	2.971E+04	1.465E+04	1.468E+04
10	1.574E+05	1.578E+05	8.303E+04	8.323E+04	4.262E+04	4.272E+04	2.032E+04	2.036E+04	1.216E+04	1.219E+04	6.010E+03	6.020E+03
15	3.130E+04	3.136E+04	1.651E+04	1.654E+04	8.472E+03	8.484E+03	4.039E+03	4.041E+03	2.418E+03	2.417E+03	1.155E+03	1.193E+03
20	9.991E+03	1.000E+04	5.269E+03	5.271E+03	2.705E+03	2.702E+03	1.289E+03	1.286E+03	7.719E+02	7.684E+02	3.814E+02	3.787E+02
30	2.024E+03	2.018E+03	1.068E+03	1.062E+03	5.480E+02	5.459E+02	2.613E+02	2.574E+02	1.564E+02	1.534E+02	7.728E+01	7.530E+01
45	4.236E+02	4.174E+02	2.234E+02	2.186E+02	1.147E+02	1.111E+02	5.466E+01	5.227E+01	3.273E+01	3.095E+01	1.617E+01	1.504E+01
60	1.453E+02	1.408E+02	7.665E+01	7.327E+01	3.935E+01	3.695E+01	1.876E+01	1.717E+01	1.123E+01	1.007E+01	5.548E+00	4.819E+00
75	6.615E+01	6.268E+01	3.488E+01	3.238E+01	1.791E+01	1.616E+01	8.536E+00	7.396E+00	5.110E+00	4.261E+00	2.525E+00	2.008E+00
90	3.634E+01	3.359E+01	1.916E+01	1.720E+01	9.837E+00	8.478E+00	4.689E+00	3.810E+00	2.807E+00	2.170E+00	1.387E+00	9.915E+00
120	1.615E+01	1.419E+01	8.517E+00	7.128E+00	4.372E+00	3.419E+00	2.084E+00	1.472E+00	1.248E+00	8.063E+00	6.165E+00	3.435E+00
150	1.044E+01	8.809E+00	5.503E+00	4.358E+00	2.825E+00	2.042E+00	1.347E+00	8.455E+00	8.062E+00	4.457E+00	3.983E+00	1.755E+00
179	9.086E+00	7.554E+00	4.792E+00	3.714E+00	2.460E+00	1.724E+00	1.173E+00	7.022E+00	7.019E+00	3.633E+00	3.468E+00	1.380E+00

BE (4)

(BARN/STERADIAN)

	RUTH		MOTT		RUTH		MOTT		RUTH		MOTT		RUTH		MOTT		RUTH		MOTT		RUTH		MOTT	
DEG	4.0E-01MEV				5.0E-01MEV				7.0E-01MEV				1.0E+00MEV				1.5E+00MEV				2.0E+00MEV			
1	3.668E+07	3.672E+07	2.524E+07	2.527E+07	1.443E+07	1.445E+07	7.986E+06	7.995E+06	4.041E+06	4.046E+06	2.468E+06	2.471E+06	1.543E+05	1.546E+05	3.046E+04	3.055E+04	9.649E+03	9.672E+03	1.908E+03	1.913E+03	6.045E+02	6.056E+02	2.481E+02	2.482E+02
2	2.293E+06	2.297E+06	1.578E+06	1.580E+06	9.022E+05	9.038E+05	4.992E+05	5.001E+05	2.526E+05	2.531E+05	1.543E+05	1.546E+05	3.046E+04	3.055E+04	9.649E+03	9.672E+03	1.908E+03	1.913E+03	6.045E+02	6.056E+02	2.481E+02	2.482E+02	4.931E+01	4.905E+01
3	4.538E+05	4.540E+05	3.117E+05	3.124E+05	1.783E+05	1.786E+05	9.863E+04	9.884E+04	5.122E+04	5.129E+04	2.577E+04	2.549E+04	1.543E+04	1.546E+04	3.046E+03	3.055E+03	9.649E+02	9.672E+02	1.908E+02	1.913E+02	6.045E+01	6.056E+01	2.481E+01	2.482E+01
4	1.434E+05	1.437E+05	9.866E+04	9.890E+04	5.642E+04	5.656E+04	3.122E+04	3.129E+04	1.580E+04	1.584E+04	8.074E+03	8.033E+03	4.041E+03	4.046E+03	2.468E+03	2.471E+03	1.543E+02	1.546E+02	3.046E+01	3.055E+01	9.649E+01	9.672E+01	4.931E+00	4.905E+00
6	2.835E+04	2.843E+04	1.951E+04	1.956E+04	1.116E+04	1.118E+04	6.173E+03	6.188E+03	3.242E+03	3.249E+03	1.606E+03	1.610E+03	8.129E+02	8.144E+02	4.041E+02	4.046E+02	2.468E+02	2.471E+02	1.543E+01	1.546E+01	3.046E+00	3.055E+00	9.649E+00	9.672E+00
8	8.984E+03	9.004E+03	6.182E+03	6.195E+03	3.535E+03	3.542E+03	1.956E+03	1.960E+03	1.056E+03	1.062E+03	5.222E+02	5.229E+02	2.577E+02	2.584E+02	1.290E+02	1.294E+02	6.474E+01	6.488E+01	3.190E+01	3.204E+01	1.543E+00	1.546E+00	3.046E+00	3.055E+00
10	3.687E+03	3.692E+03	2.537E+03	2.540E+03	1.451E+03	1.452E+03	8.074E+02	8.033E+02	4.041E+02	4.046E+02	2.468E+02	2.471E+02	1.543E+01	1.546E+01	3.046E+00	3.055E+00	9.649E+00	9.672E+00	1.908E+00	1.913E+00	6.045E+00	6.056E+00	2.481E+00	2.482E+00
15	7.329E+02	7.312E+02	5.043E+02	5.028E+02	2.884E+02	2.873E+02	1.595E+02	1.588E+02	8.074E+01	8.033E+01	4.041E+01	4.046E+01	2.468E+01	2.471E+01	1.543E+00	1.546E+00	3.046E+00	3.055E+00	9.649E+00	9.672E+00	1.908E+00	1.913E+00	6.045E+00	6.056E+00
20	2.340E+02	2.319E+02	1.610E+02	1.593E+02	9.206E+01	9.096E+01	5.093E+01	5.025E+01	2.577E+01	2.549E+01	1.543E+01	1.546E+01	3.046E+00	3.055E+00	9.649E+00	9.672E+00	1.908E+00	1.913E+00	6.045E+00	6.056E+00	2.481E+00	2.482E+00	4.931E+00	4.905E+00
30	4.741E+01	4.597E+01	3.262E+01	3.152E+01	1.865E+01	1.794E+01	1.032E+01	9.891E+00	5.222E+00	5.229E+00	2.577E+00	2.549E+00	1.543E+00	1.546E+00	3.046E+00	3.055E+00	9.649E+00	9.672E+00	1.908E+00	1.913E+00	6.045E+00	6.056E+00	2.481E+00	2.482E+00
45	9.919E+00	9.115E+00	6.825E+00	6.218E+00	3.963E+00	3.515E+00	2.159E+00	1.926E+00	1.093E+00	9.675E+00	8.074E+00	8.033E+00	4.041E+00	4.046E+00	2.468E+00	2.471E+00	1.543E+00	1.546E+00	3.046E+00	3.055E+00	9.649E+00	9.672E+00	1.908E+00	1.913E+00
60	3.404E+00	2.890E+00	2.342E+00	1.956E+00	1.339E+00	1.094E+00	7.410E+01	5.940E+01	3.732E+01	2.340E+01	1.852E+01	1.068E+01	8.23E+02	2.854E+02	5.320E+02	9.414E+03	2.692E+02	3.513E+03	2.344E+02	1.518E+03	1.432E+02	5.951E+04		
75	1.549E+00	1.186E+00	1.066E+00	7.935E+01	6.095E+01	4.368E+01	3.372E+01	2.340E+01	1.852E+01	1.068E+01	8.23E+02	2.854E+02	5.320E+02	9.414E+03	2.692E+02	3.513E+03	2.344E+02	1.518E+03	1.432E+02	5.951E+04				
90	8.509E-01	5.740E-01	5.855E-01	3.780E-01	3.348E-01	2.035E-01	1.488E-01	5.846E-02	6.15E+02	2.273E+02	8.371E+02	1.464E+02												
120	3.782E-01	1.876E-01	2.602E-01	1.176E-01	1.681E-01	5.189E-02	1.464E-01	3.748E-02																
150	2.444E-01	8.891E-02	1.681E-01	5.189E-02	1.464E-01	3.748E-02																		
179	2.128E-01	6.709E-02	1.464E-01	3.748E-02																				

DEG	3.0E+00MEV				4.0E+00MEV				5.0E+00MEV				7.0E+00MEV				1.0E+01MEV				1.5E+01MEV			
1	1.211E+06	1.212E+06	7.211E+05	7.220E+05	4.790E+05	4.796E+05	2.558E+05	2.562E+05	1.300E+05	1.302E+05	5.957E+04	5.964E+04	3.723E+03	3.730E+03	7.357E+02	7.373E+02	2.329E+02	2.334E+02	4.604E+01	4.615E+01	1.459E+01	1.461E+01	5.987E+00	5.989E+00
2	7.569E+04	7.582E+04	4.508E+04	4.516E+04	2.994E+04	3.000E+04	1.599E+04	1.602E+04	8.129E+03	8.144E+03	4.041E+03	4.046E+03	2.468E+03	2.471E+03	1.543E+02	1.546E+02	3.046E+01	3.055E+01	9.649E+01	9.672E+01	4.931E+00	4.905E+00	3.046E+00	3.055E+00
3	1.495E+04	1.499E+04	8.906E+03	8.926E+03	5.916E+03	5.910E+03	3.160E+03	3.167E+03	1.606E+03	1.610E+03	8.129E+02	8.144E+02	4.041E+02	4.046E+02	2.468E+02	2.471E+02	1.543E+01	1.546E+01	3.046E+00	3.055E+00	9.649E+00	9.672E+00	1.908E+00	1.913E+00
4	4.733E+03	4.745E+03	2.819E+03	2.826E+03	1.873E+03	1.877E+03	1.000E+03	1.003E+03	5.084E+02	5.096E+02	2.577E+02	2.584E+02	1.290E+02	1.294E+02	6.474E+01	6.488E+01	3.190E+01	3.204E+01	1.543E+00	1.546E+00	3.046E+00	3.055E+00	9.649E+00	9.672E+00
6	9.359E+02	9.382E+02	5.574E+02	5.588E+02	3.703E+02	3.712E+02	1.978E+02	1.982E+02	1.005E+02	1.008E+02	5.084E+01	5.096E+01	2.577E+01	2.584E+01	1.290E+01	1.294E+01	6.474E+00	6.488E+00	3.190E+00	3.204E+00	1.543E+00	1.546E+00	3.046E+00	3.055E+00
8	2.966E+02	2.971E+02	1.766E+02	1.769E+02	1.173E+02	1.175E+02	6.266E+01	6.277E+01	3.185E+01	3.191E+01	1.595E+01	1.588E+01	8.074E+00	8.033E+00	4.041E+00	4.046E+00	2.468E+00	2.471E+00	1.543E+00	1.546E+00	3.046E+00	3.055E+00	9.649E+00	9.672E+00
10	1.217E+02	1.217E+02	7.248E+01	7.251E+01	4.815E+01	4.817E+01	2.571E+01	2.572E+01	1.307E+01	1.308E+01	6.474E+00	6.488E+00	3.190E+00	3.204E+00	1.543E+00	1.546E+00	3.046E+00	3.055E+00	9.649E+00	9.672E+00	1.908E+00	1.913E+00	6.045E+00	6.056E+00
15	2.419E+01	2.405E+01	1.441E+01	1.433E+01	9.571E+00	9.516E+00	5.111E+00	5.082E+00	2.598E+00	2.583E+00	1.290E+00	1.294E+00	6.474E+00	6.488E+00	3.190E+00	3.204E+00	1.543E+00	1.546E+00	3.046E+00	3.055E+00	9.649E+00	9.672E+00	1.908E+00	1.913E+00
20	7.722E+00	7.602E+00	4.599E+00	4.527E+00	3.055E+00	3.007E+00	1.632E+00	1.606E+00	8.294E+01	8.162E+01	4.041E+01	4.046E+01	2.468E+01	2.471E+01	1.543E+01	1.546E+01	3.046E+00	3.055E+00	9.649E+00	9.672E+00	1.908E+00	1.913E+00	6.045E+00	6.056E+00
30	1.568E+01	1.491E+01	9.319E+01	8.877E+01	6.191E+01	5.895E+01	3.306E+01	3.148E+01	6.918E+02	6.069E+02	2.374E+02	1.841E+02	1.080E+02	7.070E+02	5.935E+03	3.102E+03	2.638E+03	6.987E+04	1.704E+03	1.271E+04	1.484E+03	6.999E+06		
45	3.274E-01	2.880E-01	1.950E-01	1.713E-01	1.295E-01	1.137E-01	6.918E-02	6.069E-02	2.374E-02	1.841E-02	1.080E-02	7.070E-02	5.935E-03	3.102E-03	2.638E-03	6.987E-04	1.704E-03	1.271E-04	1.484E-03	6.999E-06				
60	1.123E-01	8.758E-02	6.691E-02	5.203E-02	4.465E-02	3.452E-02	2.023E-02	1.357E-02	1.111E-02	5.859E-03	4.939E-03	3.153E-03	2.638E-03	6.987E-04	1.704E-03	1.271E-04	1.484E-03	6.999E-06						
75	5.113E-02	3.376E-02	3.045E-02	2.002E-02	2.023E-02	1.357E-02	1.111E-02	5.859E-03	4.939E-03	3.153E-03	2.638E-03	6.987E-04	1.704E-03	1.271E-04	1.484E-03	6.999E-06								
90	2.809E-02	1.491E-02	1.673E-02	8.810E-03	7.434E-03	2.015E-03	4.804E-03	3.949E-04	3.191E-03	2.498E-04	2.778E-03	2.415E-05												
120	1.248E-02	3.461E-03	7.434E-03	2.015E-03	4.804E-03	3.949E-04	3.191E-03	2.498E-04	2.778E-03	2.415E-05														
150	8.066E-03	7.260E-04	4.804E-03	3.949E-04	3.191E-03	2.498E-04	2.778E-03	2.415E-05																
179	7.023E-03	1.496E-04	4.183E-03	5.410E-05	2.778E-03	2.415E-05																		

DEG	2.0E+01MEV				3.0E+01MEV				4.0E+01MEV				5.0E+01MEV				7.0E+01MEV				1.0E+02MEV			
1	3.403E+04	3.408E+04	1.537E+04	1.539E+04	8.716E+03	8.777E+03	5.606E+03	5.613E+03	2.876E+03	2.880E+03	1.416E+03	1.417E+03	8.849E+01	8.865E+01	1.748E+01	1.752E+01	5.534E+00	5.547E+00	1.094E+00	1.097E+00	3.467E+00	3.473E+00	1.423E+00	1.423E+00
2	2.127E+03	2.131E+03	9.607E+02	9.625E+02	5.448E+02	5.458E+02	3.504E+02	3.511E+02	1.798E+02	1.801E+02	8.849E+01	8.865E+01												

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
06G	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	5.597E+12	5.600E+12	2.490E+12	2.491E+12	1.402E+12	1.403E+12	6.243E+11	6.247E+11	3.518E+11	3.521E+11	2.256E+11	2.258E+11
2	3.499E+11	3.501E+11	1.556E+11	1.557E+11	8.763E+10	8.769E+10	3.902E+10	3.905E+10	2.199E+10	2.201E+10	1.410E+10	1.411E+10
3	6.912E+10	6.917E+10	3.075E+10	3.077E+10	1.731E+10	1.733E+10	7.710E+09	7.716E+09	4.346E+09	4.349E+09	2.787E+09	2.789E+09
4	2.180E+10	2.189E+10	9.734E+09	9.741E+09	5.480E+09	5.485E+09	2.440E+09	2.443E+09	1.375E+09	1.377E+09	8.820E+08	8.829E+08
6	4.320E+09	4.329E+09	1.925E+09	1.926E+09	1.084E+09	1.085E+09	4.826E+08	4.831E+08	2.720E+08	2.724E+08	1.744E+08	1.746E+08
8	1.371E+09	1.372E+09	6.098E+08	6.104E+08	3.434E+08	3.437E+08	1.529E+08	1.531E+08	8.617E+07	8.629E+07	5.526E+07	5.534E+07
10	5.628E+08	5.630E+08	2.502E+08	2.505E+08	1.409E+08	1.411E+08	6.274E+07	6.283E+07	3.536E+07	3.542E+07	2.268E+07	2.271E+07
15	1.118E+08	1.119E+08	4.975E+07	4.981E+07	2.801E+07	2.805E+07	1.247E+07	1.250E+07	7.030E+06	7.044E+06	4.508E+06	4.517E+06
20	3.570E+07	3.575E+07	1.588E+07	1.591E+07	8.942E+06	8.959E+06	3.982E+06	3.991E+06	2.244E+06	2.249E+06	1.439E+06	1.443E+06
30	7.233E+06	7.247E+06	3.218E+06	3.225E+06	1.812E+06	1.816E+06	8.068E+05	8.090E+05	4.547E+05	4.560E+05	2.916E+05	2.924E+05
45	1.513E+06	1.517E+06	6.733E+05	6.751E+05	3.791E+05	3.801E+05	1.688E+05	1.693E+05	9.514E+04	9.540E+04	6.101E+04	6.117E+04
60	5.193E+05	5.207E+05	2.310E+05	2.316E+05	1.301E+05	1.304E+05	5.793E+04	5.806E+04	3.265E+04	3.270E+04	2.093E+04	2.096E+04
75	2.363E+05	2.369E+05	1.051E+05	1.054E+05	5.920E+04	5.931E+04	2.636E+04	2.639E+04	1.486E+04	1.486E+04	9.527E+03	9.518E+03
90	1.298E+05	1.301E+05	5.776E+04	5.785E+04	3.252E+04	3.253E+04	1.448E+04	1.447E+04	8.162E+03	8.144E+03	5.234E+03	5.214E+03
105	5.773E+04	5.777E+04	2.567E+04	2.567E+04	1.445E+04	1.443E+04	6.436E+03	6.409E+03	3.627E+03	3.603E+03	2.326E+03	2.304E+03
120	3.728E+04	3.730E+04	1.659E+04	1.656E+04	9.339E+03	9.308E+03	4.159E+03	4.130E+03	2.344E+03	2.319E+03	1.503E+03	1.482E+03
135	3.246E+04	3.247E+04	1.444E+04	1.441E+04	8.131E+03	8.098E+03	3.621E+03	3.592E+03	2.041E+03	2.016E+03	1.304E+03	1.288E+03
179												
06G	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.156E+11	1.156E+11	5.695E+10	5.699E+10	2.555E+10	2.557E+10	1.451E+10	1.452E+10	6.566E+09	6.571E+09	3.759E+09	3.763E+09
2	7.223E+09	7.229E+09	3.560E+09	3.563E+09	1.597E+09	1.599E+09	9.068E+08	9.077E+08	4.104E+08	4.109E+08	2.350E+08	2.353E+08
3	1.427E+09	1.429E+09	7.033E+08	7.041E+08	3.156E+08	3.159E+08	1.792E+08	1.794E+08	8.109E+07	8.121E+07	4.643E+07	4.650E+07
4	4.517E+08	4.522E+08	2.226E+08	2.229E+08	9.988E+07	1.000E+08	5.671E+07	5.679E+07	2.567E+07	2.571E+07	1.470E+07	1.472E+07
6	8.932E+07	8.944E+07	4.402E+07	4.409E+07	1.975E+07	1.978E+07	1.121E+07	1.123E+07	5.075E+06	5.086E+06	2.906E+06	2.913E+06
8	2.838E+07	2.835E+07	1.395E+07	1.397E+07	6.258E+06	6.271E+06	3.553E+06	3.561E+06	1.508E+06	1.512E+06	9.207E+05	9.232E+05
10	1.161E+07	1.164E+07	5.723E+06	5.736E+06	2.568E+06	2.574E+06	1.458E+06	1.462E+06	6.599E+05	6.618E+05	3.778E+05	3.790E+05
15	2.309E+06	2.314E+06	1.138E+06	1.141E+06	5.105E+05	5.120E+05	2.898E+05	2.907E+05	1.312E+05	1.316E+05	7.510E+04	7.536E+04
20	7.370E+05	7.391E+05	3.632E+05	3.643E+05	1.630E+05	1.635E+05	9.252E+04	9.282E+04	4.188E+04	4.201E+04	2.398E+04	2.405E+04
30	1.493E+05	1.498E+05	7.360E+04	7.382E+04	3.302E+04	3.311E+04	1.875E+04	1.879E+04	8.485E+03	8.497E+03	4.858E+03	4.859E+03
45	3.125E+04	3.132E+04	1.540E+04	1.542E+04	6.909E+03	6.909E+03	3.922E+03	3.916E+03	1.775E+03	1.766E+03	1.016E+03	1.008E+03
60	1.072E+04	1.072E+04	5.284E+03	5.275E+03	2.371E+03	2.359E+03	1.346E+03	1.335E+03	6.092E+02	5.998E+02	3.488E+02	3.411E+02
75	4.879E+03	4.865E+03	2.405E+03	2.389E+03	1.079E+03	1.046E+03	6.125E+02	6.018E+02	2.772E+02	2.693E+02	1.587E+02	1.525E+02
90	2.680E+03	2.662E+03	1.321E+03	1.305E+03	5.927E+02	5.809E+02	3.365E+02	3.271E+02	1.523E+02	1.457E+02	8.720E+01	8.209E+01
120	1.191E+03	1.173E+03	5.871E+02	5.738E+02	2.634E+02	2.549E+02	1.466E+02	1.422E+02	6.769E+01	6.269E+01	3.876E+01	3.498E+01
150	7.698E+02	7.534E+02	3.794E+02	3.674E+02	1.702E+02	1.619E+02	9.664E+01	9.035E+01	4.374E+01	3.951E+01	2.504E+01	2.187E+01
179	6.702E+02	6.544E+02	3.303E+02	3.188E+02	1.482E+02	1.403E+02	8.414E+01	7.816E+01	3.808E+01	3.408E+01	2.180E+01	1.881E+01
06G	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	2.448E+09	2.450E+09	1.291E+09	1.292E+09	6.626E+08	6.633E+08	3.159E+08	3.162E+08	1.891E+08	1.893E+08	9.343E+07	9.355E+07
2	1.538E+08	1.532E+08	8.069E+07	8.030E+07	4.142E+07	4.148E+07	1.975E+07	1.978E+07	1.182E+07	1.184E+07	5.840E+06	5.851E+06
3	3.023E+07	3.028E+07	1.594E+07	1.597E+07	8.184E+06	8.200E+06	3.901E+06	3.910E+06	2.336E+06	2.341E+06	1.154E+06	1.157E+06
4	9.588E+06	9.587E+06	5.046E+06	5.057E+06	2.590E+06	2.596E+06	1.235E+06	1.238E+06	7.392E+05	7.412E+05	3.652E+05	3.663E+05
6	1.892E+06	1.897E+06	9.978E+05	1.000E+06	5.122E+05	5.137E+05	2.442E+05	2.449E+05	1.462E+05	1.466E+05	7.222E+04	7.247E+04
8	5.998E+05	6.012E+05	3.161E+05	3.171E+05	1.623E+05	1.628E+05	7.737E+04	7.763E+04	4.631E+04	4.648E+04	2.288E+04	2.296E+04
10	2.860E+05	2.868E+05	1.297E+05	1.302E+05	6.659E+04	6.682E+04	3.175E+04	3.186E+04	1.901E+04	1.907E+04	9.390E+03	9.421E+03
15	4.898E+04	4.907E+04	2.579E+04	2.587E+04	1.324E+04	1.329E+04	6.311E+03	6.326E+03	3.778E+03	3.785E+03	1.867E+03	1.868E+03
20	1.561E+04	1.565E+04	6.233E+03	6.250E+03	4.225E+03	4.230E+03	2.015E+03	2.013E+03	1.296E+03	1.294E+03	5.959E+02	5.934E+02
30	3.163E+03	3.160E+03	1.668E+03	1.663E+03	8.563E+02	8.506E+02	4.082E+02	4.035E+02	2.444E+02	2.406E+02	1.207E+02	1.181E+02
45	6.618E+02	6.540E+02	3.490E+02	3.426E+02	1.792E+02	1.743E+02	8.541E+01	8.201E+01	5.113E+01	4.857E+01	2.526E+01	2.361E+01
60	2.274E+02	2.206E+02	1.198E+02	1.149E+02	6.148E+01	5.796E+01	2.931E+01	2.696E+01	1.755E+01	1.581E+01	8.669E+00	7.574E+00
75	1.034E+02	9.824E+01	5.451E+01	5.077E+01	2.798E+01	2.575E+01	1.334E+01	1.161E+01	7.985E+00	6.724E+00	3.945E+00	3.156E+00
90	5.678E+01	5.244E+01	2.994E+01	2.696E+01	1.537E+01	1.330E+01	7.327E+00	5.981E+00	4.387E+00	3.409E+00	2.167E+00	1.559E+00
120	2.523E+01	2.221E+01	1.331E+01	1.116E+01	6.831E+00	5.357E+00	3.257E+00	2.308E+00	1.950E+00	1.265E+00	9.632E+00	5.393E+00
150	1.431E+01	1.378E+01	8.599E+00	6.818E+00	4.414E+00	3.145E+00	2.104E+00	1.323E+00	1.260E+00	6.969E+00	6.224E+00	7.749E+00
179	1.420E+01	1.181E+01	7.487E+00	5.809E+00	3.843E+00	2.698E+00	1.832E+00	1.098E+00	1.097E+00	5.682E+00	5.419E+00	2.158E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-00MEV		1.5E-00MEV		2.0E-00MEV	
1	5.732E+07	5.739E+07	3.944E+07	3.949E+07	2.255E+07	2.268E+07	1.248E+07	1.250E+07	6.314E+06	6.323E+06	3.857E+06	3.862E+06
2	3.583E+06	3.590E+06	2.465E+06	2.470E+06	1.410E+06	1.413E+06	7.800E+05	7.816E+05	3.947E+05	3.955E+05	2.411E+05	2.416E+05
3	7.079E+05	7.097E+05	4.871E+05	4.883E+05	2.785E+05	2.793E+05	1.541E+05	1.545E+05	7.798E+04	7.820E+04	4.763E+04	4.776E+04
4	2.241E+05	2.247E+05	1.542E+05	1.546E+05	8.816E+04	8.833E+04	4.878E+04	4.893E+04	2.468E+04	2.476E+04	1.508E+04	1.512E+04
6	4.430E+04	4.446E+04	3.048E+04	3.059E+04	1.743E+04	1.749E+04	9.645E+03	9.679E+03	4.881E+03	4.898E+03	2.981E+03	2.992E+03
8	1.404E+04	1.409E+04	9.659E+03	9.693E+03	5.523E+03	5.543E+03	3.056E+03	3.066E+03	1.546E+03	1.552E+03	9.446E+02	9.477E+02
10	5.760E+03	5.778E+03	3.963E+03	3.975E+03	2.267E+03	2.273E+03	1.254E+03	1.257E+03	6.346E+02	6.362E+02	3.876E+02	3.885E+02
15	1.145E+03	1.145E+03	7.879E+02	7.875E+02	4.506E+02	4.500E+02	2.493E+02	2.488E+02	1.261E+02	1.258E+02	7.705E+01	7.685E+01
20	3.656E+02	3.634E+02	2.515E+02	2.497E+02	1.438E+02	1.436E+02	7.958E+01	7.878E+01	4.027E+01	3.982E+01	2.450E+01	2.431E+01
30	7.407E+01	7.213E+01	5.096E+01	4.947E+01	2.915E+01	2.817E+01	1.613E+01	1.553E+01	8.160E+00	7.835E+00	4.984E+00	4.779E+00
45	1.550E+01	1.432E+01	1.066E+01	9.771E+00	6.098E+00	5.566E+00	3.374E+00	3.029E+00	1.707E+00	1.522E+00	1.043E+00	9.261E-01
60	5.318E+00	4.545E+00	3.659E+00	3.077E+00	2.093E+00	1.722E+00	1.158E+00	9.252E-01	5.859E-01	4.664E-01	3.578E-01	2.829E-01
75	2.420E+00	1.866E+00	1.665E+00	1.249E+00	9.523E-01	6.879E-01	5.269E-01	3.687E-01	2.666E-01	1.818E-01	1.628E-01	1.097E-01
90	1.330E+00	9.030E-01	9.148E-01	5.949E-01	5.231E-01	3.205E-01	2.894E-01	1.683E-01	1.465E-01	8.162E-02	8.946E-02	4.884E-02
120	5.909E-01	2.947E-01	4.066E-01	1.848E-01	2.325E-01	9.232E-02	1.286E-01	4.498E-02	6.510E-02	2.035E-02	3.976E-02	1.174E-02
150	3.818E-01	1.393E-01	2.627E-01	8.133E-02	1.502E-01	3.565E-02	8.312E-02	1.478E-02	4.206E-02	5.526E-03	2.169E-02	2.820E-03
179	3.324E-01	1.049E-01	2.287E-01	5.861E-02	1.308E-01	2.336E-02	7.237E-02	8.305E-03	3.662E-02	2.374E-03	2.237E-02	9.307E-04
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	1.892E+06	1.895E+06	1.127E+06	1.128E+06	7.485E+05	7.486E+05	3.997E+05	4.003E+05	2.032E+05	2.035E+05	9.307E+04	9.321E+04
2	1.183E+05	1.185E+05	7.043E+04	7.059E+04	4.679E+04	4.689E+04	2.499E+04	2.504E+04	1.270E+04	1.273E+04	5.818E+03	5.831E+03
3	2.337E+04	2.343E+04	1.392E+04	1.395E+04	9.244E+03	9.270E+03	4.937E+03	4.951E+03	2.510E+03	2.517E+03	1.149E+03	1.153E+03
4	7.396E+03	7.420E+03	4.405E+03	4.419E+03	2.929E+03	2.936E+03	1.563E+03	1.568E+03	7.943E+02	7.969E+02	3.638E+02	3.650E+02
6	1.462E+03	1.468E+03	8.709E+02	8.741E+02	5.786E+02	5.807E+02	3.090E+02	3.101E+02	1.571E+02	1.576E+02	7.194E+01	7.220E+01
8	4.634E+02	4.649E+02	2.760E+02	2.769E+02	1.833E+02	1.839E+02	9.791E+01	9.823E+01	4.977E+01	4.993E+01	2.280E+01	2.287E+01
10	1.901E+02	1.906E+02	1.132E+02	1.135E+02	7.523E+01	7.540E+01	4.018E+01	4.027E+01	2.042E+01	2.047E+01	9.354E+00	9.376E+00
15	3.780E+01	3.769E+01	2.251E+01	2.245E+01	1.495E+01	1.491E+01	7.987E+00	7.963E+00	4.060E+00	4.047E+00	1.859E+00	1.854E+00
20	1.207E+01	1.192E+01	7.186E+00	7.098E+00	4.774E+00	4.715E+00	2.550E+00	2.518E+00	1.296E+00	1.280E+00	5.936E-01	5.862E-01
30	2.445E+00	2.342E+00	1.456E+00	1.394E+00	9.673E-01	9.288E-01	5.166E-01	4.943E-01	2.626E-01	2.512E-01	1.203E-01	1.151E-01
45	5.116E-01	4.529E-01	3.047E-01	2.694E-01	2.024E-01	1.789E-01	1.081E-01	9.547E-02	5.494E-02	4.851E-02	2.517E-02	2.222E-02
60	1.755E-01	1.379E-01	1.045E-01	8.195E-02	6.945E-02	5.437E-02	3.709E-02	2.900E-02	1.885E-02	1.473E-02	8.636E-03	6.746E-03
75	7.989E-02	5.324E-02	4.758E-02	3.157E-02	3.161E-02	2.092E-02	1.688E-02	1.115E-02	8.580E-03	5.661E-03	3.930E-03	2.591E-03
90	4.389E-02	2.353E-02	2.614E-02	1.392E-02	1.736E-02	9.201E-03	9.273E-03	4.896E-03	4.714E-03	2.484E-03	2.159E-03	1.376E-03
120	1.958E-02	5.466E-03	1.162E-02	3.183E-03	7.717E-03	2.090E-03	4.121E-03	1.104E-03	2.095E-03	5.577E-04	9.595E-04	2.546E-04
150	1.260E-02	1.145E-03	7.506E-03	6.236E-04	4.986E-03	3.946E-04	2.663E-03	2.009E-04	1.354E-03	9.924E-05	6.200E-04	4.472E-05
179	1.097E-02	2.339E-04	6.535E-03	8.461E-05	4.341E-03	3.778E-05	2.319E-03	1.095E-05	1.179E-03	2.888E-06	5.398E-04	6.311E-07
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	5.318E+04	5.325E+04	2.401E+04	2.405E+04	1.362E+04	1.364E+04	8.759E+03	8.772E+03	4.495E+03	4.501E+03	2.212E+03	2.215E+03
2	3.324E+03	3.331E+03	1.501E+03	1.504E+03	8.513E+02	8.532E+02	5.475E+02	5.488E+02	2.809E+02	2.816E+02	1.383E+02	1.386E+02
3	6.580E+02	6.586E+02	2.966E+02	2.974E+02	1.682E+02	1.687E+02	1.082E+02	1.085E+02	5.551E+01	5.567E+01	2.732E+01	2.739E+01
4	2.079E+02	2.086E+02	9.388E+01	9.418E+01	5.324E+01	5.341E+01	3.424E+01	3.435E+01	1.757E+01	1.763E+01	8.646E+00	8.675E+00
6	4.110E+01	4.125E+01	1.856E+01	1.863E+01	1.053E+01	1.057E+01	6.771E+00	6.795E+00	3.474E+00	3.487E+00	1.710E+00	1.716E+00
8	1.302E+01	1.307E+01	5.882E+00	5.901E+00	3.336E+00	3.347E+00	2.145E+00	2.152E+00	1.101E+00	1.104E+00	5.417E-01	5.435E-01
10	5.344E+00	5.357E+00	2.414E+00	2.419E+00	1.369E+00	1.372E+00	8.803E-01	8.824E-01	4.517E-01	4.528E-01	2.223E-01	2.228E-01
15	1.062E+00	1.059E+00	4.798E-01	4.783E-01	2.721E-01	2.713E-01	1.750E-01	1.745E-01	8.980E-02	8.952E-02	4.419E-02	4.405E-02
20	3.392E-01	3.349E-01	1.532E-01	1.512E-01	8.868E-02	8.577E-02	5.547E-02	5.317E-02	2.867E-02	2.831E-02	1.411E-02	1.393E-02
30	6.872E-02	6.574E-02	3.104E-02	2.969E-02	1.760E-02	1.684E-02	1.132E-02	1.083E-02	5.809E-03	5.556E-03	2.858E-03	2.734E-03
45	1.438E-02	1.269E-02	6.494E-03	5.732E-03	3.683E-03	3.250E-03	2.369E-03	2.091E-03	1.215E-03	1.073E-03	5.981E-04	5.279E-04
60	4.934E-03	3.854E-03	2.228E-03	1.740E-03	1.264E-03	9.848E-04	8.127E-04	6.347E-04	4.170E-04	3.257E-04	2.052E-04	1.603E-04
75	2.245E-03	1.480E-03	1.014E-03	6.683E-04	5.751E-04	3.790E-04	3.699E-04	2.437E-04	1.898E-04	1.251E-04	9.340E-05	6.154E-05
90	1.234E-03	6.489E-04	5.571E-04	2.929E-04	3.159E-04	1.661E-04	2.032E-04	1.069E-04	1.043E-04	5.481E-05	5.131E-05	2.697E-05
120	5.882E-04	1.452E-04	2.476E-04	6.553E-05	1.404E-04	3.715E-05	9.030E-05	2.389E-05	4.634E-05	1.226E-05	2.280E-05	6.031E-06
150	3.542E-04	2.539E-05	1.600E-04	1.142E-05	9.073E-05	6.465E-06	5.835E-05	4.155E-06	2.994E-05	2.130E-06	1.473E-05	1.048E-06
179	3.084E-04	2.169E-07	1.393E-04	5.045E-08	7.899E-05	1.899E-08	5.080E-05	9.325E-09	2.607E-05	3.482E-09	1.283E-05	1.371E-09

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	8.0595E+12	8.064E+12	3.585E+12	3.588E+12	2.019E+12	2.020E+12	8.990E+11	8.995E+11	5.067E+11	5.070E+11	3.249E+11	3.251E+11
2	5.038E+11	5.041E+11	2.241E+11	2.243E+11	1.262E+11	1.263E+11	5.619E+10	5.623E+10	3.167E+10	3.169E+10	2.031E+10	2.032E+10
3	9.954E+10	9.960E+10	4.428E+10	4.431E+10	2.493E+10	2.495E+10	1.110E+10	1.111E+10	6.258E+09	6.263E+09	4.013E+09	4.016E+09
4	3.151E+10	3.153E+10	1.402E+10	1.403E+10	7.892E+09	7.898E+09	3.514E+09	3.517E+09	1.981E+09	1.983E+09	1.270E+09	1.271E+09
6	6.238E+09	6.234E+09	2.771E+09	2.774E+09	1.560E+09	1.562E+09	6.949E+08	6.957E+08	3.916E+08	3.923E+08	2.511E+08	2.515E+08
8	1.974E+09	1.975E+09	8.782E+08	8.790E+08	4.944E+08	4.950E+08	2.202E+08	2.205E+08	1.241E+08	1.243E+08	7.957E+07	7.970E+07
10	8.100E+08	8.107E+08	3.604E+08	3.607E+08	2.029E+08	2.031E+08	9.035E+07	9.049E+07	5.092E+07	5.101E+07	3.265E+07	3.271E+07
15	1.610E+08	1.612E+08	7.163E+07	7.174E+07	4.033E+07	4.040E+07	1.796E+07	1.800E+07	1.012E+07	1.015E+07	6.491E+06	6.507E+06
20	5.140E+07	5.148E+07	2.287E+07	2.291E+07	1.288E+07	1.290E+07	5.734E+06	5.748E+06	3.231E+06	3.241E+06	2.072E+06	2.079E+06
30	1.042E+07	1.044E+07	4.634E+06	4.645E+06	2.609E+06	2.616E+06	1.162E+06	1.166E+06	6.548E+05	6.571E+05	4.199E+05	4.215E+05
45	2.179E+06	2.185E+06	9.695E+05	9.727E+05	5.459E+05	5.478E+05	2.431E+05	2.440E+05	1.370E+05	1.375E+05	8.785E+04	8.819E+04
60	7.478E+05	7.502E+05	3.327E+05	3.338E+05	1.873E+05	1.880E+05	8.341E+04	8.370E+04	4.701E+04	4.716E+04	3.015E+04	3.023E+04
75	3.403E+05	3.415E+05	1.514E+05	1.519E+05	8.524E+04	8.551E+04	3.796E+04	3.805E+04	2.139E+04	2.143E+04	1.372E+04	1.373E+04
90	1.870E+05	1.875E+05	8.317E+04	8.340E+04	4.683E+04	4.693E+04	2.085E+04	2.087E+04	1.175E+04	1.175E+04	7.536E+03	7.521E+03
120	8.309E+04	8.330E+04	3.696E+04	3.701E+04	2.081E+04	2.081E+04	9.268E+03	9.244E+03	5.223E+03	5.196E+03	3.349E+03	3.323E+03
150	5.369E+04	5.380E+04	2.389E+04	2.389E+04	1.345E+04	1.343E+04	5.989E+03	5.956E+03	3.375E+03	3.345E+03	2.164E+03	2.137E+03
179	4.674E+04	4.683E+04	2.080E+04	2.079E+04	1.171E+04	1.168E+04	5.214E+03	5.180E+03	2.939E+03	2.908E+03	1.884E+03	1.857E+03
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.664E+11	1.665E+11	8.200E+10	8.206E+10	3.679E+10	3.682E+10	2.089E+10	2.091E+10	9.454E+09	9.463E+09	5.413E+09	5.418E+09
2	1.040E+10	1.041E+10	5.125E+09	5.131E+09	2.300E+09	2.302E+09	1.306E+09	1.307E+09	5.910E+08	5.917E+08	3.384E+08	3.383E+08
3	2.055E+09	2.057E+09	1.013E+09	1.014E+09	4.544E+08	4.550E+08	2.580E+08	2.584E+08	1.168E+08	1.170E+08	6.686E+07	6.697E+07
4	6.505E+08	6.513E+08	3.206E+08	3.210E+08	1.438E+08	1.440E+08	8.166E+07	8.180E+07	3.696E+07	3.703E+07	2.116E+07	2.121E+07
6	1.286E+08	1.288E+08	6.339E+07	6.350E+07	2.844E+07	2.850E+07	1.615E+07	1.618E+07	7.308E+06	7.327E+06	4.184E+06	4.196E+06
8	4.075E+07	4.083E+07	2.008E+07	2.013E+07	9.011E+06	9.033E+06	5.116E+06	5.130E+06	2.316E+06	2.323E+06	1.326E+06	1.330E+06
10	1.672E+07	1.676E+07	8.242E+06	8.262E+06	3.698E+06	3.708E+06	2.099E+06	2.106E+06	9.502E+05	9.536E+05	5.440E+05	5.461E+05
15	3.324E+06	3.334E+06	1.638E+06	1.644E+06	7.351E+05	7.377E+05	4.173E+05	4.190E+05	1.889E+05	1.897E+05	1.081E+05	1.086E+05
20	1.061E+06	1.065E+06	5.230E+05	5.250E+05	2.347E+05	2.356E+05	1.332E+05	1.338E+05	6.030E+04	6.057E+04	3.453E+04	3.468E+04
30	2.150E+05	2.159E+05	1.060E+05	1.064E+05	4.755E+04	4.774E+04	2.700E+04	2.710E+04	1.222E+04	1.226E+04	6.996E+03	7.011E+03
45	4.499E+04	4.516E+04	2.217E+04	2.224E+04	9.948E+03	9.966E+03	5.648E+03	5.650E+03	2.556E+03	2.550E+03	1.464E+03	1.455E+03
60	1.544E+04	1.547E+04	7.609E+03	7.609E+03	3.414E+03	3.403E+03	1.938E+03	1.926E+03	8.772E+02	8.661E+02	5.023E+02	4.926E+02
75	7.026E+03	7.017E+03	3.463E+03	3.447E+03	1.554E+03	1.548E+03	8.820E+02	8.684E+02	3.992E+02	3.889E+02	2.286E+02	2.203E+02
90	3.860E+03	3.840E+03	1.902E+03	1.883E+03	8.534E+02	8.383E+02	4.845E+02	4.721E+02	2.193E+02	2.103E+02	1.256E+02	1.186E+02
120	1.715E+03	1.693E+03	8.454E+02	8.274E+02	3.793E+02	3.662E+02	2.154E+02	2.052E+02	9.747E+01	9.046E+01	5.581E+01	5.049E+01
150	1.109E+03	1.087E+03	5.463E+02	5.298E+02	2.451E+02	2.335E+02	1.392E+02	1.303E+02	6.298E+01	5.698E+01	3.406E+01	3.154E+01
179	9.651E+02	9.437E+02	4.756E+02	4.596E+02	2.134E+02	2.073E+02	1.212E+02	1.127E+02	5.484E+01	4.913E+01	3.140E+01	2.712E+01
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	3.525E+09	3.528E+09	1.859E+09	1.861E+09	9.541E+08	9.553E+08	4.549E+08	4.554E+08	2.723E+08	2.727E+08	1.345E+08	1.347E+08
2	2.203E+08	2.206E+08	1.162E+08	1.164E+08	5.964E+07	5.975E+07	2.843E+07	2.849E+07	1.702E+07	1.706E+07	8.410E+06	8.429E+06
3	4.353E+07	4.361E+07	2.296E+07	2.300E+07	1.178E+07	1.181E+07	5.618E+06	5.632E+06	3.363E+06	3.372E+06	1.662E+06	1.666E+06
4	1.378E+07	1.381E+07	7.266E+06	7.285E+06	3.730E+06	3.740E+06	1.774E+06	1.784E+06	1.044E+06	1.048E+06	5.260E+05	5.278E+05
6	2.724E+06	2.733E+06	1.437E+06	1.441E+06	7.375E+05	7.402E+05	3.516E+05	3.530E+05	2.105E+05	2.113E+05	1.040E+05	1.044E+05
8	8.633E+05	8.663E+05	4.553E+05	4.570E+05	2.337E+05	2.347E+05	1.114E+05	1.119E+05	6.669E+04	6.700E+04	3.295E+04	3.311E+04
10	3.542E+05	3.557E+05	1.869E+05	1.878E+05	9.589E+04	9.633E+04	4.572E+04	4.593E+04	2.737E+04	2.750E+04	1.352E+04	1.359E+04
15	7.042E+04	7.074E+04	3.714E+04	3.731E+04	1.906E+04	1.915E+04	9.088E+03	9.125E+03	5.440E+03	5.461E+03	2.685E+03	2.696E+03
20	2.248E+04	2.258E+04	1.186E+04	1.190E+04	6.086E+03	6.104E+03	2.901E+03	2.906E+03	1.737E+03	1.739E+03	8.581E+02	8.568E+02
30	4.555E+03	4.561E+03	2.402E+03	2.400E+03	1.233E+03	1.228E+03	5.878E+02	5.829E+02	3.519E+02	3.476E+02	1.739E+02	1.707E+02
45	9.531E+02	9.444E+02	5.026E+02	4.950E+02	2.580E+02	2.519E+02	1.230E+02	1.186E+02	7.368E+01	7.027E+01	3.638E+01	3.418E+01
60	3.270E+02	3.187E+02	1.725E+02	1.660E+02	8.853E+01	8.381E+01	4.221E+01	3.901E+01	2.527E+01	2.289E+01	1.244E+01	1.097E+01
75	1.488E+02	1.419E+02	7.849E+01	7.338E+01	4.029E+01	3.645E+01	1.921E+01	1.680E+01	1.150E+01	9.736E+00	5.681E+00	4.574E+00
90	8.176E+01	7.604E+01	4.312E+01	3.897E+01	2.213E+01	1.953E+01	1.055E+01	8.653E+00	6.317E+00	4.935E+00	3.121E+00	2.259E+00
120	3.634E+01	3.206E+01	1.916E+01	1.612E+01	9.837E+00	7.717E+00	4.689E+00	3.366E+00	2.807E+00	1.824E+00	1.387E+00	7.804E+00
150	2.348E+01	1.987E+01	1.238E+01	9.833E+00	6.356E+00	4.608E+00	3.030E+00	1.909E+00	1.814E+00	1.006E+00	8.943E+00	3.968E+00
179	2.044E+01	1.703E+01	1.078E+01	8.374E+00	5.534E+00	3.887E+00	2.683E+00	1.583E+00	1.579E+00	8.191E+00	7.803E+00	3.111E+00

C (6)

(BARNS/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	8.253E+07	8.266E+07	5.679E+07	5.687E+07	3.247E+07	3.253E+07	1.797E+07	1.800E+07	9.092E+06	9.107E+06	5.553E+06	5.563E+06
2	5.159E+06	5.171E+06	3.550E+06	3.558E+06	2.030E+06	2.035E+06	1.123E+06	1.126E+06	5.683E+05	5.698E+05	3.471E+05	3.480E+05
3	1.019E+06	1.022E+06	7.014E+05	7.035E+05	4.011E+05	4.024E+05	2.219E+05	2.226E+05	1.123E+05	1.127E+05	6.859E+04	6.882E+04
4	3.226E+05	3.238E+05	2.220E+05	2.228E+05	1.270E+05	1.274E+05	7.024E+04	7.051E+04	3.554E+04	3.568E+04	2.171E+04	2.180E+04
6	6.388E+04	6.408E+04	4.390E+04	4.409E+04	2.510E+04	2.522E+04	1.389E+04	1.395E+04	7.028E+03	7.061E+03	4.293E+03	4.313E+03
8	2.021E+04	2.031E+04	1.391E+04	1.398E+04	7.954E+03	7.993E+03	4.401E+03	4.422E+03	2.227E+03	2.238E+03	1.360E+03	1.367E+03
10	8.295E+03	8.334E+03	5.707E+03	5.734E+03	3.264E+03	3.279E+03	1.806E+03	1.814E+03	9.138E+02	9.174E+02	5.581E+02	5.605E+02
15	1.649E+03	1.653E+03	1.135E+03	1.137E+03	6.488E+02	6.496E+02	3.590E+02	3.592E+02	1.817E+02	1.817E+02	1.110E+02	1.110E+02
20	5.264E+02	5.249E+02	3.622E+02	3.607E+02	2.071E+02	2.040E+02	1.146E+02	1.138E+02	5.799E+01	5.754E+01	3.542E+01	3.513E+01
30	1.067E+02	1.043E+02	7.339E+01	7.154E+01	4.197E+01	4.074E+01	2.322E+01	2.246E+01	1.175E+01	1.134E+01	7.177E+00	6.916E+00
45	2.232E+01	2.074E+01	1.536E+01	1.415E+01	8.781E+00	8.006E+00	4.858E+00	4.390E+00	2.459E+00	2.206E+00	1.502E+00	1.343E+00
60	7.658E+00	6.587E+00	5.269E+00	4.460E+00	3.013E+00	2.467E+00	1.667E+00	1.357E+00	8.436E+00	6.769E+01	5.153E+01	4.107E+01
75	3.485E+00	2.705E+00	2.398E+00	1.812E+00	1.374E+00	9.945E+01	7.587E+01	5.354E+01	3.839E+01	2.642E+01	2.345E+01	1.594E+01
90	1.915E+00	1.309E+00	1.317E+00	8.632E+01	7.533E+01	4.654E+01	4.168E+01	2.446E+01	2.109E+01	1.187E+01	1.288E+01	7.103E+01
120	8.509E+01	4.267E+01	5.855E+01	2.679E+01	3.348E+01	1.339E+01	1.852E+01	6.533E+02	9.374E+02	2.959E+02	5.725E+02	1.709E+02
150	5.498E+01	2.012E+01	3.783E+01	1.175E+01	2.163E+01	5.145E+02	1.197E+01	2.140E+02	6.057E+02	8.014E+03	3.700E+02	4.095E+03
179	4.787E+01	1.512E+01	3.294E+01	8.449E+02	1.884E+01	3.348E+02	1.042E+01	1.197E+02	5.274E+02	3.422E+03	3.212E+02	1.342E+03
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	2.724E+06	2.729E+06	1.623E+06	1.625E+06	1.078E+06	1.080E+06	5.756E+05	5.766E+05	2.926E+05	2.931E+05	1.340E+05	1.342E+05
2	1.703E+05	1.707E+05	1.014E+05	1.017E+05	6.738E+04	6.755E+04	3.598E+04	3.608E+04	1.829E+04	1.834E+04	8.378E+03	8.400E+03
3	3.365E+04	3.376E+04	2.004E+04	2.011E+04	1.331E+04	1.336E+04	7.110E+03	7.134E+03	3.614E+03	3.626E+03	1.655E+03	1.661E+03
4	1.065E+04	1.069E+04	6.343E+03	6.368E+03	4.214E+03	4.231E+03	2.250E+03	2.259E+03	1.144E+03	1.148E+03	5.239E+02	5.260E+02
6	2.106E+03	2.116E+03	1.254E+03	1.260E+03	8.331E+02	8.371E+02	4.450E+02	4.471E+02	2.262E+02	2.273E+02	1.036E+02	1.041E+02
8	6.672E+02	6.705E+02	3.974E+02	3.993E+02	2.640E+02	2.653E+02	1.410E+02	1.417E+02	7.167E+01	7.201E+01	3.283E+01	3.298E+01
10	2.738E+02	2.750E+02	1.631E+02	1.638E+02	1.083E+02	1.088E+02	5.785E+01	5.810E+01	2.941E+01	2.953E+01	1.347E+01	1.353E+01
15	5.443E+01	5.442E+01	3.242E+01	3.241E+01	2.153E+01	2.153E+01	1.150E+01	1.150E+01	5.846E+00	5.844E+00	2.678E+00	2.677E+00
20	1.738E+01	1.723E+01	1.035E+01	1.026E+01	6.874E+00	6.814E+00	3.671E+00	3.639E+00	1.866E+00	1.850E+00	8.548E+00	8.471E+00
30	3.521E+00	3.389E+00	2.097E+00	2.017E+00	1.393E+00	1.340E+00	7.439E+00	7.154E+01	3.781E+01	3.636E+01	1.732E+01	1.665E+01
45	7.366E+01	6.567E+01	4.387E+01	3.906E+01	2.914E+01	2.543E+01	1.557E+01	1.384E+01	7.912E+02	7.034E+02	3.624E+02	3.221E+02
60	2.528E+01	2.003E+01	1.505E+01	1.190E+01	1.000E+01	7.895E+02	5.341E+02	4.211E+02	2.715E+02	2.139E+02	1.244E+02	9.795E+01
75	1.158E+01	7.739E+02	6.851E+02	4.589E+02	4.551E+02	3.041E+02	2.431E+02	1.621E+02	1.236E+02	8.299E+03	5.659E+03	3.767E+03
90	6.318E+02	3.422E+02	3.764E+02	2.023E+02	2.500E+02	1.339E+02	1.335E+02	7.124E+03	6.787E+03	3.614E+03	3.109E+03	1.653E+03
120	2.800E+02	7.959E+03	1.673E+02	4.636E+03	1.111E+02	3.045E+03	5.935E+03	1.609E+03	3.017E+03	8.126E+04	1.928E+03	3.709E+04
150	1.819E+02	1.666E+03	1.081E+02	9.078E+04	7.180E+03	5.747E+04	3.835E+03	2.927E+04	1.949E+03	1.447E+04	8.928E+04	6.519E+05
179	1.580E+02	3.373E+04	9.411E+03	1.220E+04	6.252E+03	5.446E+05	3.339E+03	1.578E+05	1.697E+03	4.165E+06	7.773E+04	9.105E+07
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	7.657E+04	7.670E+04	3.458E+04	3.464E+04	1.961E+04	1.964E+04	1.261E+04	1.263E+04	6.472E+03	6.483E+03	3.185E+03	3.190E+03
2	4.787E+03	4.799E+03	2.162E+03	2.167E+03	1.226E+03	1.229E+03	7.885E+02	7.905E+02	4.046E+02	4.056E+02	1.991E+02	1.996E+02
3	9.457E+02	9.490E+02	4.271E+02	4.286E+02	2.422E+02	2.430E+02	1.558E+02	1.563E+02	7.993E+01	8.021E+01	3.934E+01	3.947E+01
4	2.993E+02	3.006E+02	1.352E+02	1.357E+02	7.666E+01	7.697E+01	4.931E+01	4.951E+01	2.530E+01	2.540E+01	1.245E+01	1.250E+01
6	5.919E+01	5.947E+01	2.673E+01	2.686E+01	1.516E+01	1.523E+01	9.750E+00	9.796E+00	5.003E+00	5.027E+00	2.462E+00	2.474E+00
8	1.875E+01	1.885E+01	8.470E+00	8.511E+00	4.803E+00	4.826E+00	3.089E+00	3.104E+00	1.585E+00	1.593E+00	7.801E+01	7.839E+01
10	7.696E+00	7.728E+00	3.476E+00	3.490E+00	1.971E+00	1.979E+00	1.268E+00	1.273E+00	6.505E+00	6.532E+01	3.201E+01	3.215E+01
15	1.530E+00	1.529E+00	6.909E+01	6.907E+01	3.918E+01	3.917E+01	2.520E+01	2.519E+01	1.293E+01	1.293E+01	6.363E+02	6.362E+02
20	4.884E+01	4.840E+01	2.206E+01	2.186E+01	1.251E+01	1.240E+01	8.045E+02	7.973E+02	4.128E+02	4.091E+02	2.031E+02	2.013E+02
30	9.896E+02	9.514E+02	4.469E+02	4.297E+02	2.534E+02	2.473E+02	1.630E+02	1.567E+02	8.364E+03	8.041E+03	4.116E+03	3.957E+03
45	2.071E+02	1.840E+02	9.351E+03	8.310E+03	5.303E+03	4.713E+03	3.411E+03	3.031E+03	1.750E+03	1.555E+03	8.612E+04	7.654E+04
60	7.105E+03	5.596E+03	3.209E+03	2.527E+03	1.820E+03	1.473E+03	1.170E+03	9.216E+04	6.005E+04	4.729E+04	2.955E+04	2.327E+04
75	3.233E+03	2.152E+03	1.460E+03	9.715E+04	8.281E+04	4.509E+04	5.326E+04	3.543E+04	2.733E+04	1.818E+04	1.345E+04	8.946E+05
90	1.776E+03	9.442E+04	8.022E+04	4.263E+04	4.549E+04	2.417E+04	2.926E+04	1.555E+04	1.501E+04	7.976E+05	7.388E+05	3.925E+05
120	7.894E+04	2.116E+04	3.565E+04	9.548E+05	2.022E+04	5.413E+05	1.300E+04	3.401E+05	6.673E+05	1.786E+05	3.284E+05	8.788E+06
150	5.101E+04	3.762E+05	2.304E+04	1.665E+05	1.306E+04	9.456E+06	8.403E+05	6.058E+06	4.312E+05	3.106E+06	2.122E+05	1.528E+06
179	4.441E+04	3.131E+07	2.006E+04	7.291E+08	1.137E+04	2.749E+08	7.316E+05	1.351E+08	3.754E+05	5.055E+09	1.847E+05	2.993E+09

N (7)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.097E+13	1.098E+13	4.880E+12	4.883E+12	2.748E+12	2.749E+12	1.224E+12	1.224E+12	6.896E+11	6.901E+11	4.422E+11	4.425E+11
2	6.857E+11	6.861E+11	3.051E+11	3.052E+11	1.718E+11	1.719E+11	7.649E+10	7.654E+10	4.311E+10	4.314E+10	2.764E+10	2.766E+10
3	1.355E+11	1.356E+11	6.027E+10	6.031E+10	3.394E+10	3.396E+10	1.511E+10	1.512E+10	8.517E+09	8.525E+09	5.462E+09	5.467E+09
4	4.288E+10	4.291E+10	1.968E+10	1.969E+10	1.074E+10	1.075E+10	4.783E+09	4.788E+09	2.696E+09	2.699E+09	1.729E+09	1.731E+09
6	8.479E+09	8.485E+09	3.772E+09	3.775E+09	2.124E+09	2.126E+09	9.458E+08	9.469E+08	5.331E+08	5.337E+08	3.418E+08	3.423E+08
8	2.687E+09	2.689E+09	1.195E+09	1.196E+09	6.730E+08	6.737E+08	2.997E+08	3.001E+08	1.689E+08	1.692E+08	1.083E+08	1.085E+08
10	1.102E+09	1.103E+09	4.905E+08	4.910E+08	2.762E+08	2.765E+08	1.230E+08	1.232E+08	6.931E+07	6.944E+07	4.444E+07	4.454E+07
15	2.192E+08	2.194E+08	9.750E+07	9.764E+07	5.490E+07	5.499E+07	2.445E+07	2.450E+07	1.378E+07	1.381E+07	8.835E+06	8.860E+06
20	6.996E+07	7.006E+07	3.113E+07	3.118E+07	1.753E+07	1.756E+07	7.804E+06	7.826E+06	4.398E+06	4.413E+06	2.820E+06	2.830E+06
30	1.418E+07	1.421E+07	6.307E+06	6.324E+06	3.551E+06	3.562E+06	1.581E+06	1.587E+06	8.912E+05	8.950E+05	5.715E+05	5.741E+05
45	2.966E+06	2.976E+06	1.320E+06	1.325E+06	7.430E+05	7.461E+05	3.309E+05	3.324E+05	1.865E+05	1.874E+05	1.196E+05	1.202E+05
60	1.018E+06	1.022E+06	4.528E+05	4.548E+05	2.550E+05	2.561E+05	1.135E+05	1.141E+05	6.399E+04	6.427E+04	4.103E+04	4.120E+04
75	4.632E+05	4.652E+05	2.061E+05	2.070E+05	1.160E+05	1.165E+05	5.167E+04	5.186E+04	2.912E+04	2.921E+04	1.867E+04	1.872E+04
90	2.548E+05	2.556E+05	1.132E+05	1.137E+05	6.374E+04	6.397E+04	2.838E+04	2.845E+04	1.600E+04	1.601E+04	1.024E+04	1.025E+04
120	1.131E+05	1.136E+05	5.031E+04	5.046E+04	2.833E+04	2.838E+04	1.261E+04	1.260E+04	7.110E+03	7.085E+03	4.559E+03	4.531E+03
150	7.308E+04	7.337E+04	3.251E+04	3.258E+04	1.831E+04	1.831E+04	8.151E+03	8.122E+03	4.594E+03	4.561E+03	2.946E+03	2.914E+03
179	6.362E+04	6.388E+04	2.831E+04	2.835E+04	1.594E+04	1.593E+04	7.097E+03	7.064E+03	4.000E+03	3.965E+03	2.565E+03	2.532E+03
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.265E+11	2.266E+11	1.116E+11	1.117E+11	5.008E+10	5.012E+10	2.843E+10	2.846E+10	1.287E+10	1.288E+10	7.368E+09	7.376E+09
2	1.416E+10	1.417E+10	6.977E+09	6.984E+09	3.130E+09	3.134E+09	1.777E+09	1.779E+09	8.044E+08	8.055E+08	4.606E+08	4.613E+08
3	2.797E+09	2.800E+09	1.379E+09	1.380E+09	6.185E+08	6.194E+08	3.511E+08	3.517E+08	1.589E+08	1.592E+08	9.100E+07	9.118E+07
4	8.854E+08	8.865E+08	4.363E+08	4.370E+08	1.958E+08	1.961E+08	1.111E+08	1.114E+08	5.031E+07	5.042E+07	2.880E+07	2.887E+07
6	1.751E+08	1.754E+08	8.628E+07	8.644E+07	3.871E+07	3.880E+07	2.198E+07	2.203E+07	9.947E+06	9.976E+06	5.695E+06	5.714E+06
8	5.547E+07	5.558E+07	2.734E+07	2.740E+07	1.226E+07	1.230E+07	6.964E+06	6.985E+06	3.152E+06	3.163E+06	1.805E+06	1.812E+06
10	2.276E+07	2.282E+07	1.122E+07	1.125E+07	5.033E+06	5.049E+06	2.857E+06	2.868E+06	1.293E+06	1.299E+06	7.405E+05	7.439E+05
15	4.525E+06	4.540E+06	2.230E+06	2.238E+06	1.000E+06	1.005E+06	5.680E+05	5.707E+05	2.571E+05	2.584E+05	1.472E+05	1.480E+05
20	1.445E+06	1.450E+06	7.119E+05	7.151E+05	3.194E+05	3.210E+05	1.813E+05	1.823E+05	8.208E+04	8.255E+04	4.699E+04	4.727E+04
30	2.927E+05	2.942E+05	1.442E+05	1.450E+05	6.472E+04	6.507E+04	3.674E+04	3.694E+04	1.663E+04	1.671E+04	9.522E+03	9.563E+03
45	6.124E+04	6.155E+04	3.018E+04	3.032E+04	1.354E+04	1.359E+04	7.688E+03	7.707E+03	3.480E+03	3.479E+03	1.992E+03	1.986E+03
60	2.101E+04	2.109E+04	1.036E+04	1.038E+04	4.646E+03	4.643E+03	2.638E+03	2.628E+03	1.194E+03	1.182E+03	6.836E+02	6.726E+02
75	9.564E+03	9.569E+03	4.713E+03	4.702E+03	2.115E+03	2.099E+03	1.201E+03	1.185E+03	5.434E+02	5.308E+02	3.111E+02	3.008E+02
90	5.254E+03	5.237E+03	2.589E+03	2.569E+03	1.162E+03	1.144E+03	6.595E+02	6.442E+02	2.985E+02	2.870E+02	1.709E+02	1.619E+02
120	2.335E+03	2.308E+03	1.151E+03	1.128E+03	5.163E+02	4.995E+02	2.931E+02	2.793E+02	1.327E+02	1.234E+02	7.596E+01	6.888E+01
150	1.509E+03	1.482E+03	7.436E+02	7.223E+02	3.336E+02	3.184E+02	1.894E+02	1.776E+02	8.573E+01	7.749E+01	4.908E+01	4.301E+01
179	1.314E+03	1.287E+03	6.474E+02	6.267E+02	2.904E+02	2.758E+02	1.649E+02	1.536E+02	7.464E+01	6.697E+01	4.273E+01	3.696E+01
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	4.797E+09	4.803E+09	2.530E+09	2.533E+09	1.299E+09	1.300E+09	6.191E+08	6.200E+08	3.706E+08	3.712E+08	1.831E+08	1.834E+08
2	2.999E+08	3.004E+08	1.581E+08	1.584E+08	8.118E+07	8.134E+07	3.870E+07	3.878E+07	2.317E+07	2.322E+07	1.145E+07	1.148E+07
3	5.925E+07	5.938E+07	3.125E+07	3.132E+07	1.604E+07	1.608E+07	7.647E+06	7.649E+06	4.574E+06	4.592E+06	2.262E+06	2.269E+06
4	1.875E+07	1.880E+07	9.890E+06	9.919E+06	5.077E+06	5.093E+06	2.420E+06	2.429E+06	1.449E+06	1.454E+06	7.159E+05	7.188E+05
6	3.708E+06	3.721E+06	1.956E+06	1.963E+06	1.004E+06	1.008E+06	4.786E+05	4.808E+05	2.865E+05	2.879E+05	1.416E+05	1.423E+05
8	1.175E+06	1.180E+06	6.197E+05	6.225E+05	3.181E+05	3.197E+05	1.516E+05	1.525E+05	9.078E+04	9.129E+04	4.485E+04	4.512E+04
10	4.822E+05	4.845E+05	2.543E+05	2.556E+05	1.305E+05	1.313E+05	6.222E+04	6.27E+04	3.725E+04	3.748E+04	1.840E+04	1.852E+04
15	9.585E+04	9.640E+04	5.055E+04	5.085E+04	2.585E+04	2.610E+04	1.237E+04	1.244E+04	7.005E+03	7.047E+03	3.659E+03	3.678E+03
20	3.060E+04	3.078E+04	1.614E+04	1.623E+04	8.283E+03	8.366E+03	3.949E+03	3.965E+03	2.364E+03	2.371E+03	1.168E+03	1.170E+03
30	6.200E+03	6.222E+03	3.270E+03	3.275E+03	1.678E+03	1.677E+03	8.001E+02	7.960E+02	4.790E+02	4.749E+02	2.367E+02	2.333E+02
45	1.297E+03	1.289E+03	6.841E+02	6.759E+02	3.512E+02	3.441E+02	1.674E+02	1.621E+02	1.002E+02	9.609E+01	4.952E+01	4.677E+01
60	4.451E+02	4.352E+02	2.348E+02	2.268E+02	1.205E+02	1.146E+02	5.745E+01	5.335E+01	3.439E+01	3.133E+01	1.699E+01	1.503E+01
75	2.026E+02	1.938E+02	1.068E+02	1.003E+02	5.484E+01	5.011E+01	2.614E+01	2.299E+01	1.565E+01	1.333E+01	7.733E+00	6.266E+00
90	4.946E+01	4.375E+01	2.608E+01	2.200E+01	3.013E+01	2.698E+01	1.436E+01	1.184E+01	8.598E+00	6.754E+00	4.248E+00	3.094E+00
120	3.196E+01	2.710E+01	1.685E+01	1.341E+01	1.339E+01	1.066E+01	6.383E+00	4.557E+00	3.821E+00	2.499E+00	1.888E+00	1.068E+00
150	3.196E+01	2.710E+01	1.685E+01	1.341E+01	8.652E+00	6.284E+00	4.124E+00	2.604E+00	2.469E+00	1.372E+00	1.220E+00	5.416E+00
179	2.783E+01	2.321E+01	1.447E+01	1.141E+01	7.532E+00	5.297E+00	3.591E+00	2.158E+00	2.150E+00	1.116E+00	1.062E+00	4.239E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.123E+08	1.125E+08	7.729E+07	7.743E+07	4.420E+07	4.420E+07	2.446E+07	2.450E+07	1.238E+07	1.240E+07	7.559E+06	7.573E+06
2	7.022E+06	7.041E+06	4.832E+06	4.845E+06	2.763E+06	2.771E+06	1.529E+06	1.533E+06	7.736E+05	7.759E+05	4.725E+05	4.739E+05
3	1.387E+06	1.392E+06	9.546E+05	9.581E+05	5.459E+05	5.489E+05	3.020E+05	3.032E+05	1.528E+05	1.534E+05	9.336E+04	9.373E+04
4	4.392E+05	4.410E+05	3.022E+05	3.035E+05	1.728E+05	1.746E+05	9.560E+04	9.605E+04	4.838E+04	4.861E+04	2.955E+04	2.969E+04
6	8.684E+04	8.731E+04	9.975E+04	6.008E+04	3.417E+04	3.436E+04	1.890E+04	1.901E+04	9.566E+03	9.622E+03	5.843E+03	5.877E+03
8	2.751E+04	2.768E+04	1.893E+04	1.905E+04	1.083E+04	1.089E+04	5.990E+03	6.028E+03	3.031E+03	3.050E+03	1.851E+03	1.863E+03
10	1.129E+04	1.136E+04	7.768E+03	7.817E+03	4.442E+03	4.470E+03	2.458E+03	2.473E+03	1.244E+03	1.252E+03	7.597E+02	7.644E+02
15	2.244E+03	2.255E+03	1.544E+03	1.551E+03	8.831E+02	8.865E+02	4.886E+02	4.903E+02	2.473E+02	2.480E+02	1.510E+02	1.514E+02
20	7.165E+02	7.166E+02	4.930E+02	4.925E+02	2.819E+02	2.813E+02	1.560E+02	1.555E+02	7.893E+01	7.860E+01	4.821E+01	4.799E+01
30	1.452E+02	1.426E+02	9.989E+01	9.781E+01	5.712E+01	5.571E+01	3.161E+01	3.072E+01	1.599E+01	1.551E+01	9.769E+00	9.460E+00
45	3.033E+01	2.838E+01	2.090E+01	1.938E+01	1.195E+01	1.066E+01	6.613E+00	6.014E+00	3.346E+00	3.022E+00	2.044E+00	1.840E+00
60	1.042E+01	9.025E+00	7.172E+00	6.113E+00	4.101E+00	3.344E+00	2.269E+00	1.861E+00	1.148E+00	9.289E-01	7.014E-01	5.636E-01
75	4.744E+00	3.708E+00	3.264E+00	2.484E+00	1.846E+00	1.370E+00	1.033E+00	7.351E-01	5.226E-01	3.629E-01	3.192E-01	2.190E-01
90	2.604E+00	1.795E+00	1.793E+00	1.184E+00	1.025E+00	6.348E-01	5.673E-01	3.360E-01	2.871E-01	1.631E-01	1.753E-01	9.766E-02
120	1.158E+00	5.843E-01	7.969E-01	3.670E-01	4.557E-01	1.837E-01	2.521E-01	8.972E-02	1.276E-01	4.068E-02	7.793E-02	2.351E-02
150	7.484E-01	2.746E-01	5.149E-01	1.605E-01	2.945E-01	7.048E-02	1.629E-01	2.930E-02	8.244E-02	1.099E-02	5.036E-02	5.621E-03
179	6.516E-01	2.061E-01	4.483E-01	1.151E-01	2.564E-01	4.590E-02	1.418E-01	1.632E-02	7.178E-02	4.664E-03	4.384E-02	1.828E-03
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	3.708E+06	3.715E+06	2.208E+06	2.213E+06	1.467E+06	1.470E+06	7.835E+05	7.850E+05	3.983E+05	3.990E+05	1.824E+05	1.828E+05
2	2.318E+05	2.325E+05	1.380E+05	1.385E+05	9.171E+04	9.198E+04	4.898E+04	4.912E+04	2.490E+04	2.497E+04	1.140E+04	1.144E+04
3	4.580E+04	4.598E+04	2.780E+04	2.738E+04	1.812E+04	1.819E+04	9.677E+03	9.716E+03	4.919E+03	4.939E+03	2.253E+03	2.262E+03
4	1.450E+04	1.457E+04	8.633E+03	8.675E+03	5.735E+03	5.763E+03	3.063E+03	3.078E+03	1.557E+03	1.564E+03	7.131E+02	7.166E+02
6	2.866E+03	2.883E+03	1.707E+03	1.717E+03	1.134E+03	1.141E+03	6.056E+02	6.092E+02	3.079E+02	3.097E+02	1.410E+02	1.418E+02
8	9.082E+02	9.140E+02	5.409E+02	5.444E+02	3.593E+02	3.616E+02	1.919E+02	1.931E+02	9.754E+01	9.817E+01	4.468E+01	4.496E+01
10	3.727E+02	3.750E+02	2.220E+02	2.233E+02	1.474E+02	1.484E+02	7.875E+01	7.923E+01	4.003E+01	4.027E+01	1.833E+01	1.845E+01
15	7.408E+01	7.428E+01	4.412E+01	4.424E+01	2.931E+01	2.939E+01	1.565E+01	1.569E+01	7.957E+00	7.977E+00	3.645E+00	3.654E+00
20	2.365E+01	2.353E+01	1.409E+01	1.401E+01	9.357E+00	9.308E+00	4.997E+00	4.971E+00	2.540E+00	2.527E+00	1.163E+00	1.157E+00
30	4.792E+00	4.636E+00	2.854E+00	2.760E+00	1.896E+00	1.833E+00	1.013E+00	9.787E-01	5.147E-01	4.974E-01	2.358E-01	2.278E-01
45	1.003E+00	9.000E-01	5.972E-01	5.354E-01	3.967E-01	3.554E-01	2.119E-01	1.897E-01	1.077E-01	9.641E-02	4.933E-02	4.415E-02
60	3.441E-01	2.749E-01	2.049E-01	1.633E-01	1.361E-01	1.084E-01	7.270E-02	5.781E-02	3.695E-02	2.937E-02	1.693E-02	1.345E-02
75	1.566E-01	1.063E-01	9.325E-02	6.306E-02	6.195E-02	4.180E-02	3.308E-02	2.228E-02	1.682E-02	1.131E-02	7.703E-03	5.177E-03
90	8.601E-02	4.707E-02	5.123E-02	2.782E-02	3.403E-02	1.841E-02	1.817E-02	9.799E-03	9.239E-03	4.971E-03	4.232E-03	2.274E-03
120	3.823E-02	1.096E-02	2.277E-02	6.384E-03	1.512E-02	4.193E-03	8.078E-03	2.216E-03	4.106E-03	1.119E-03	1.881E-03	5.109E-04
150	2.470E-02	2.270E-03	1.471E-02	1.249E-03	9.773E-03	7.912E-04	5.220E-03	4.032E-04	2.653E-03	1.993E-04	1.215E-03	8.985E-05
179	2.151E-02	4.59E-04	1.281E-02	1.662E-04	8.509E-03	7.423E-05	4.544E-03	2.152E-05	2.310E-03	5.679E-06	1.058E-03	1.242E-06
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.042E+05	1.044E+05	4.707E+04	4.716E+04	2.669E+04	2.674E+04	1.717E+04	1.720E+04	8.809E+03	8.826E+03	4.335E+03	4.343E+03
2	6.518E+03	6.535E+03	2.942E+03	2.951E+03	1.669E+03	1.674E+03	1.073E+03	1.076E+03	5.507E+02	5.523E+02	2.710E+02	2.718E+02
3	1.287E+03	1.292E+03	5.813E+02	5.837E+02	3.297E+02	3.310E+02	2.120E+02	2.129E+02	1.088E+02	1.092E+02	5.354E+01	5.376E+01
4	4.074E+02	4.094E+02	1.840E+02	1.849E+02	1.043E+02	1.049E+02	6.711E+01	6.744E+01	3.444E+01	3.460E+01	1.695E+01	1.703E+01
6	8.056E+01	8.104E+01	3.638E+01	3.660E+01	2.063E+01	2.076E+01	1.327E+01	1.335E+01	6.809E+00	6.850E+00	3.351E+00	3.371E+00
8	2.553E+01	2.569E+01	1.153E+01	1.160E+01	6.538E+00	6.580E+00	4.205E+00	4.232E+00	2.158E+00	2.171E+00	1.062E+00	1.069E+00
10	1.048E+01	1.054E+01	4.731E+00	4.760E+00	2.683E+00	2.699E+00	1.725E+00	1.736E+00	8.054E+00	8.088E+00	4.357E+00	4.384E+00
15	2.082E+00	2.088E+00	9.404E-01	9.428E-01	5.333E-01	5.347E-01	3.430E-01	3.439E-01	1.760E-01	1.764E-01	8.681E-02	8.683E-02
20	6.648E-01	6.612E-01	3.002E-01	2.986E-01	1.702E-01	1.693E-01	1.095E-01	1.089E-01	5.619E-02	5.588E-02	2.765E-02	2.750E-02
30	1.347E-01	1.302E-01	6.083E-02	5.878E-02	3.450E-02	3.334E-02	2.219E-02	2.144E-02	1.138E-02	1.100E-02	5.603E-03	5.414E-03
45	2.818E-02	2.522E-02	1.273E-02	1.139E-02	7.218E-03	6.459E-03	4.642E-03	4.155E-03	2.382E-03	2.132E-03	1.172E-03	1.049E-03
60	9.671E-03	7.681E-03	4.367E-03	3.468E-03	2.477E-03	1.967E-03	1.593E-03	1.265E-03	8.174E-04	6.491E-04	4.022E-04	3.194E-04
75	4.401E-03	2.957E-03	1.988E-03	1.335E-03	1.127E-03	7.571E-04	7.249E-04	4.869E-04	3.720E-04	2.499E-04	1.831E-04	1.230E-04
90	2.418E-03	1.299E-03	1.092E-03	5.864E-04	6.192E-04	3.375E-04	3.982E-04	2.139E-04	2.043E-04	1.097E-04	1.008E-04	5.400E-05
120	1.075E-03	2.915E-04	4.853E-04	1.315E-04	2.752E-04	7.457E-05	1.770E-04	4.795E-05	9.082E-05	2.460E-05	4.469E-05	1.211E-05
150	6.943E-04	5.104E-05	3.136E-04	2.295E-05	1.778E-04	1.299E-05	1.144E-04	8.351E-06	5.869E-05	4.202E-06	2.888E-05	2.107E-06
179	5.045E-04	4.273E-07	2.730E-04	9.963E-08	1.548E-04	3.761E-08	9.958E-05	1.851E-08	5.109E-05	6.939E-09	2.514E-05	2.741E-09

0 (8)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.433E+13	1.434E+13	6.374E+12	6.378E+12	3.589E+12	3.591E+12	1.598E+12	1.599E+12	9.007E+11	9.013E+11	5.776E+11	5.780E+11
2	8.956E+11	8.962E+11	3.984E+11	3.987E+11	2.243E+11	2.245E+11	9.990E+10	9.997E+10	5.630E+10	5.635E+10	3.610E+10	3.613E+10
3	1.770E+11	1.771E+11	7.872E+10	7.878E+10	4.433E+10	4.436E+10	1.974E+10	1.975E+10	1.112E+10	1.113E+10	7.133E+09	7.140E+09
4	5.601E+10	5.605E+10	2.492E+10	2.494E+10	1.403E+10	1.404E+10	6.248E+09	6.253E+09	3.521E+09	3.525E+09	2.258E+09	2.260E+09
6	1.108E+10	1.108E+10	4.927E+09	4.931E+09	2.774E+09	2.777E+09	1.235E+09	1.237E+09	6.962E+08	6.971E+08	4.465E+08	4.471E+08
8	3.509E+09	3.512E+09	1.561E+09	1.563E+09	8.790E+08	8.799E+08	3.914E+08	3.920E+08	2.206E+08	2.210E+08	1.415E+08	1.417E+08
10	1.440E+09	1.441E+09	6.406E+08	6.412E+08	3.607E+08	3.611E+08	1.606E+08	1.609E+08	9.053E+07	9.070E+07	5.805E+07	5.818E+07
15	2.863E+08	2.865E+08	1.273E+08	1.275E+08	7.170E+07	7.183E+07	3.193E+07	3.200E+07	1.800E+07	1.804E+07	1.154E+07	1.158E+07
20	9.138E+07	9.149E+07	4.065E+07	4.073E+07	2.289E+07	2.294E+07	1.019E+07	1.022E+07	5.745E+06	5.765E+06	3.684E+06	3.698E+06
30	1.852E+07	1.855E+07	8.238E+06	8.261E+06	4.638E+06	4.664E+06	2.065E+06	2.074E+06	1.164E+06	1.170E+06	7.464E+05	7.504E+05
45	3.874E+06	3.887E+06	1.724E+06	1.731E+06	9.704E+05	9.761E+05	4.321E+05	4.346E+05	2.436E+05	2.450E+05	1.562E+05	1.572E+05
60	1.329E+06	1.335E+06	5.914E+05	5.945E+05	3.330E+05	3.348E+05	1.483E+05	1.492E+05	8.358E+04	8.407E+04	5.359E+04	5.390E+04
75	6.050E+05	6.080E+05	2.692E+05	2.706E+05	1.515E+05	1.554E+05	6.748E+04	6.784E+04	3.803E+04	3.822E+04	2.439E+04	2.449E+04
90	3.324E+05	3.341E+05	1.479E+05	1.487E+05	8.325E+04	8.368E+04	3.707E+04	3.723E+04	2.089E+04	2.096E+04	1.340E+04	1.342E+04
120	1.477E+05	1.486E+05	6.571E+04	6.603E+04	3.700E+04	3.713E+04	1.648E+04	1.649E+04	9.286E+03	9.272E+03	5.955E+03	5.930E+03
150	9.545E+04	9.604E+04	4.246E+04	4.265E+04	2.391E+04	2.397E+04	1.065E+04	1.063E+04	6.000E+03	5.970E+03	3.848E+03	3.814E+03
179	8.310E+04	8.363E+04	3.397E+04	3.712E+04	2.082E+04	2.086E+04	9.270E+03	9.248E+03	5.224E+03	5.190E+03	3.350E+03	3.315E+03
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.958E+11	2.960E+11	1.458E+11	1.459E+11	6.541E+10	6.546E+10	3.714E+10	3.717E+10	1.681E+10	1.683E+10	9.623E+09	9.634E+09
2	1.849E+10	1.851E+10	9.113E+09	9.122E+09	4.089E+09	4.093E+09	2.321E+09	2.324E+09	1.051E+09	1.052E+09	6.015E+08	6.025E+08
3	3.654E+09	3.658E+09	1.801E+09	1.803E+09	8.078E+08	8.090E+08	4.586E+08	4.594E+08	2.076E+08	2.080E+08	1.189E+08	1.191E+08
4	1.156E+09	1.158E+09	5.699E+08	5.708E+08	2.557E+08	2.562E+08	1.452E+08	1.455E+08	6.571E+07	6.586E+07	3.762E+07	3.772E+07
6	2.287E+08	2.291E+08	1.127E+08	1.129E+08	5.056E+07	5.068E+07	2.870E+07	2.879E+07	1.299E+07	1.303E+07	7.439E+06	7.466E+06
8	7.245E+07	7.261E+07	3.571E+07	3.580E+07	1.602E+07	1.607E+07	9.095E+06	9.127E+06	4.117E+06	4.133E+06	2.357E+06	2.368E+06
10	2.973E+07	2.981E+07	1.465E+07	1.470E+07	6.574E+06	6.588E+06	3.732E+06	3.748E+06	1.689E+06	1.697E+06	9.672E+05	9.723E+05
15	5.910E+06	5.932E+06	2.913E+06	2.925E+06	1.307E+06	1.313E+06	7.419E+05	7.460E+05	3.358E+05	3.379E+05	1.923E+05	1.935E+05
20	1.887E+06	1.895E+06	9.298E+05	9.347E+05	4.172E+05	4.197E+05	2.368E+05	2.384E+05	1.072E+05	1.080E+05	6.138E+04	6.183E+04
30	3.823E+05	3.846E+05	1.884E+05	1.896E+05	8.453E+04	8.511E+04	4.799E+04	4.833E+04	2.172E+04	2.187E+04	1.244E+04	1.252E+04
45	7.999E+04	8.050E+04	3.942E+04	3.967E+04	1.769E+04	1.779E+04	1.004E+04	1.009E+04	4.545E+03	4.555E+03	2.602E+03	2.601E+03
60	2.745E+04	2.759E+04	1.353E+04	1.358E+04	6.069E+03	6.078E+03	3.446E+03	3.441E+03	1.560E+03	1.548E+03	8.929E+02	8.813E+02
75	1.249E+04	1.252E+04	6.156E+03	6.154E+03	2.762E+03	2.748E+03	1.568E+03	1.552E+03	7.097E+02	6.954E+02	4.064E+02	3.941E+02
90	6.862E+03	6.854E+03	3.382E+03	3.363E+03	1.517E+03	1.497E+03	8.614E+02	8.436E+02	3.899E+02	3.760E+02	2.232E+02	2.121E+02
120	3.050E+03	3.021E+03	1.503E+03	1.477E+03	6.743E+02	6.539E+02	3.828E+02	3.664E+02	1.733E+02	1.617E+02	9.921E+01	9.021E+01
150	1.971E+03	1.939E+03	9.712E+02	9.453E+02	4.357E+02	4.147E+02	2.474E+02	2.325E+02	1.120E+02	1.017E+02	6.411E+01	5.629E+01
179	1.716E+03	1.684E+03	8.456E+02	8.201E+02	3.794E+02	3.609E+02	2.154E+02	2.010E+02	9.749E+01	8.762E+01	5.582E+01	4.836E+01
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	6.266E+09	6.273E+09	3.304E+09	3.309E+09	1.696E+09	1.699E+09	8.086E+08	8.099E+08	4.841E+08	4.849E+08	2.392E+08	2.396E+08
2	3.917E+08	3.924E+08	2.066E+08	2.070E+08	1.060E+08	1.063E+08	5.055E+07	5.067E+07	3.026E+07	3.034E+07	1.495E+07	1.499E+07
3	7.739E+07	7.757E+07	4.081E+07	4.092E+07	2.095E+07	2.101E+07	9.987E+06	1.002E+07	5.979E+06	6.000E+06	2.954E+06	2.965E+06
4	2.450E+07	2.457E+07	1.292E+07	1.296E+07	6.631E+06	6.665E+06	3.161E+06	3.174E+06	1.892E+06	1.901E+06	9.350E+05	9.394E+05
6	4.843E+06	4.863E+06	2.554E+06	2.565E+06	1.311E+06	1.318E+06	6.251E+05	6.284E+05	3.742E+05	3.763E+05	1.849E+05	1.860E+05
8	1.535E+06	1.542E+06	8.093E+05	8.137E+05	4.154E+05	4.179E+05	1.981E+05	1.993E+05	1.186E+05	1.194E+05	5.858E+04	5.900E+04
10	6.298E+05	6.333E+05	3.321E+05	3.342E+05	1.705E+05	1.716E+05	8.127E+04	8.186E+04	4.865E+04	4.902E+04	2.404E+04	2.423E+04
15	1.252E+05	1.261E+05	6.602E+04	6.651E+04	3.389E+04	3.415E+04	1.616E+04	1.628E+04	9.672E+03	9.746E+03	4.779E+03	4.814E+03
20	3.996E+04	4.026E+04	2.108E+04	2.123E+04	1.082E+04	1.090E+04	5.158E+03	5.191E+03	3.088E+03	3.105E+03	1.526E+03	1.532E+03
30	8.098E+03	8.145E+03	4.271E+03	4.289E+03	2.192E+03	2.196E+03	1.045E+03	1.043E+03	6.256E+02	6.225E+02	3.091E+02	3.060E+02
45	1.694E+03	1.689E+03	8.935E+02	8.858E+02	4.587E+02	4.512E+02	2.187E+02	2.127E+02	1.304E+02	1.261E+02	6.468E+01	6.141E+01
60	5.814E+02	5.704E+02	3.066E+02	2.974E+02	1.574E+02	1.503E+02	7.503E+01	7.004E+01	4.492E+01	4.114E+01	2.219E+01	1.975E+01
75	2.646E+02	2.541E+02	1.395E+02	1.315E+02	7.163E+01	6.575E+01	3.415E+01	3.018E+01	2.044E+01	1.751E+01	1.010E+01	8.239E+00
90	1.653E+02	1.361E+02	7.665E+01	6.980E+01	3.935E+01	3.447E+01	1.876E+01	1.554E+01	1.123E+01	8.872E+00	5.548E+00	4.068E+00
120	6.460E+01	5.731E+01	3.407E+01	2.882E+01	1.749E+01	1.345E+01	8.337E+00	5.976E+00	4.991E+00	3.279E+00	2.466E+00	1.402E+00
150	4.174E+01	3.546E+01	2.201E+01	1.755E+01	1.130E+01	8.266E+00	5.387E+00	3.409E+00	3.225E+00	1.796E+00	1.593E+00	7.094E+00
179	3.634E+01	3.037E+01	1.917E+01	1.493E+01	9.838E+00	6.930E+00	4.690E+00	2.822E+00	2.808E+00	1.460E+00	1.387E+00	5.545E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.467E+08	1.470E+08	1.010E+08	1.011E+08	5.773E+07	5.784E+07	3.194E+07	3.201E+07	1.616E+07	1.620E+07	9.873E+06	9.893E+06
2	9.172E+06	9.199E+06	6.311E+06	6.330E+06	3.609E+06	3.620E+06	1.997E+06	2.003E+06	1.010E+06	1.014E+06	6.171E+05	6.192E+05
3	1.812E+06	1.819E+06	1.247E+06	1.252E+06	7.130E+05	7.141E+05	3.945E+05	3.962E+05	1.996E+05	2.005E+05	1.219E+05	1.225E+05
4	5.736E+05	5.764E+05	3.947E+05	3.967E+05	2.257E+05	2.269E+05	1.249E+05	1.255E+05	6.319E+04	6.354E+04	3.859E+04	3.881E+04
6	1.134E+05	1.141E+05	7.804E+04	7.855E+04	4.463E+04	4.493E+04	2.469E+04	2.486E+04	1.249E+04	1.258E+04	7.631E+03	7.685E+03
8	3.594E+04	3.620E+04	2.473E+04	2.491E+04	1.414E+04	1.425E+04	7.823E+03	7.885E+03	3.959E+03	3.990E+03	2.418E+03	2.437E+03
10	1.475E+04	1.486E+04	1.015E+04	1.023E+04	5.802E+03	5.849E+03	3.210E+03	3.236E+03	1.625E+03	1.638E+03	9.723F+02	1.000E+03
15	2.932E+03	2.952E+03	2.017E+03	2.031E+03	1.153E+03	1.161E+03	6.382E+02	6.420E+02	3.229E+02	3.248E+02	1.972E+02	1.984E+02
20	9.358E+02	9.388E+02	6.439E+02	6.454E+02	3.682E+02	3.686E+02	2.037E+02	2.038E+02	1.031E+02	1.030E+02	6.297E+01	6.290E+01
30	1.896E+02	1.870E+02	1.305E+02	1.283E+02	7.461E+01	7.311E+01	4.128E+01	4.033E+01	2.089E+01	2.036E+01	1.276E+01	1.242E+01
45	3.968E+01	3.728E+01	2.730E+01	2.546E+01	1.561E+01	1.441E+01	8.637E+00	7.906E+00	4.371E+00	3.974E+00	2.670E+00	2.420E+00
60	1.361E+01	1.187E+01	9.367E+00	8.041E+00	5.357E+00	4.506E+00	2.964E+00	2.450E+00	1.500E+00	1.223E+00	9.161E-01	7.423E-01
75	6.196E+00	4.879E+00	4.263E+00	3.270E+00	2.438E+00	1.805E+00	1.349E+00	9.686E-01	6.825E-01	4.783E-01	4.169E-01	2.888E-01
90	3.404E+00	2.362E+00	2.342E+00	1.559E+00	1.339E+00	8.416E-01	7.410E-01	4.430E-01	3.750E-01	2.152E-01	2.290E-01	1.289E-01
120	1.513E+00	7.678E-01	1.041E+00	4.827E-01	5.952E-01	2.419E-01	3.293E-01	1.183E-01	1.666E-01	5.368E-02	1.018E-01	3.104E-02
150	9.775E-01	5.599E-01	6.725E-01	2.104E-01	3.846E-01	9.248E-02	2.128E-01	3.849E-02	1.077E-01	1.446E-02	5.577E-02	7.407E-03
179	8.510E-01	2.696E-01	5.855E-01	1.506E-01	3.349E-01	6.004E-02	1.853E-01	2.134E-02	9.375E-02	6.101E-03	5.726E-02	2.392E-03
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	4.843E+06	4.853E+06	2.884E+06	2.890E+06	1.916E+06	1.920E+06	1.023E+06	1.025E+06	5.202E+05	5.213E+05	2.383E+05	2.388E+05
2	3.027E+05	3.038E+05	1.803E+05	1.809E+05	1.198E+05	1.202E+05	6.397E+04	6.419E+04	3.252E+04	3.263E+04	1.489E+04	1.494E+04
3	5.982E+04	6.009E+04	3.563E+04	3.579E+04	2.367E+04	2.377E+04	1.264E+04	1.270E+04	6.425E+03	6.454E+03	2.943E+03	2.956E+03
4	1.893E+04	1.904E+04	1.128E+04	1.134E+04	7.491E+03	7.543E+03	4.001E+03	4.023E+03	2.034E+03	2.045E+03	9.314E+02	9.367E+02
6	3.744E+03	3.770E+03	2.230E+03	2.246E+03	1.481E+03	1.492E+03	7.910E+02	7.967E+02	4.021E+02	4.050E+02	1.842E+02	1.855E+02
8	1.186E+03	1.196E+03	7.065E+02	7.121E+02	4.693E+02	4.731E+02	2.506E+02	2.526E+02	1.274E+02	1.294E+02	5.836E+01	5.882E+01
10	4.868E+02	4.907E+02	2.899E+02	2.922E+02	1.926E+02	1.941E+02	1.029E+02	1.037E+02	5.228E+01	5.270E+01	2.395E+01	2.414E+01
15	9.676E+01	9.729E+01	5.763E+01	5.794E+01	3.828E+01	3.849E+01	2.045E+01	2.056E+01	1.039E+01	1.045E+01	4.760E+00	4.786E+00
20	3.089E+01	3.085E+01	1.840E+01	1.837E+01	1.222E+01	1.220E+01	6.527E+00	6.516E+00	3.318E+00	3.312E+00	1.520E+00	1.517E+00
30	6.259E+00	6.086E+00	3.728E+00	3.623E+00	2.476E+00	2.406E+00	1.323E+00	1.285E+00	6.723E+00	6.531E+00	3.079E+00	2.991E+00
45	1.310E+00	1.184E+00	7.800E-01	7.042E-01	5.181E-01	4.675E-01	2.767E-01	2.496E-01	1.407E-01	1.268E-01	6.443E-02	5.807E-02
60	4.494E-01	3.621E-01	2.676E-01	2.151E-01	1.778E-01	1.427E-01	9.495E-02	7.615E-02	4.827E-02	3.868E-02	2.211E-02	1.771E-02
75	2.045E-01	1.402E-01	1.218E-01	8.316E-02	8.091E-02	5.513E-02	4.321E-02	2.938E-02	2.197E-02	1.492E-02	1.006E-02	6.828E-03
90	1.123E-01	6.212E-02	6.691E-02	3.673E-02	4.445E-02	2.431E-02	2.374E-02	1.294E-02	1.207E-02	6.563E-03	5.527E-03	3.003E-03
120	4.993E-02	1.448E-02	2.974E-02	8.437E-03	1.055E-02	5.542E-03	1.055E-02	2.929E-03	5.363E-03	1.480E-03	2.456E-03	6.754E-04
150	3.226E-02	0.23E-03	1.922E-02	1.650E-03	1.277E-02	1.046E-03	6.817E-03	5.332E-04	3.465E-03	2.637E-04	1.587E-03	1.189E-04
179	2.809E-02	6.012E-04	1.673E-02	2.175E-04	1.111E-02	9.711E-05	5.936E-03	2.815E-05	3.017E-03	7.431E-06	1.382E-03	1.626E-06
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.361E+05	1.364E+05	6.149E+04	6.161E+04	3.486E+04	3.484E+04	2.242E+04	2.247E+04	1.151E+04	1.153E+04	5.662E+03	5.674E+03
2	8.509E+03	8.538E+03	3.843E+03	3.856E+03	2.179E+03	2.187E+03	1.402E+03	1.406E+03	7.192E+02	7.217E+02	3.539E+02	3.551E+02
3	1.681E+03	1.689E+03	7.593E+02	7.628E+02	4.306E+02	4.326E+02	2.769E+02	2.782E+02	1.421E+02	1.428E+02	6.993E+01	7.025E+01
4	5.322E+02	5.352E+02	2.403E+02	2.417E+02	1.363E+02	1.371E+02	8.786E+01	8.815E+01	4.498E+01	4.523E+01	2.213E+01	2.226E+01
6	1.052E+02	1.060E+02	4.752E+01	4.786E+01	2.695E+01	2.714E+01	1.733E+01	1.746E+01	8.894E+00	8.957E+00	4.377E+00	4.408E+00
8	3.334E+01	3.361E+01	1.506E+01	1.518E+01	8.539E+00	8.607E+00	5.492E+00	5.536E+00	2.818E+00	2.841E+00	1.387E+00	1.398E+00
10	1.368E+01	1.379E+01	6.179E+00	6.229E+00	3.504E+00	3.532E+00	2.254E+00	2.272E+00	1.156E+00	1.166E+00	5.691E-01	5.737E-01
15	2.720E+00	2.734E+00	1.228E+00	1.235E+00	6.966E+00	7.003E+00	4.480E+00	4.504E+00	2.299E+00	2.311E+00	1.131E-01	1.137E-01
20	8.682E-01	8.667E-01	3.921E-01	3.914E-01	2.224E-01	2.220E-01	1.430E-01	1.428E-01	7.339E-02	7.326E-02	3.611E-02	3.605E-02
30	1.759E-01	1.709E-01	7.945E-02	7.717E-02	4.506E-02	4.377E-02	2.898E-02	2.815E-02	1.487E-02	1.444E-02	7.318E-03	7.108E-03
45	3.681E-02	3.318E-02	1.662E-02	1.498E-02	9.427E-03	8.497E-03	6.063E-03	5.475E-03	3.111E-03	2.804E-03	1.531F-03	1.380E-03
60	1.263E-02	1.012E-02	5.704E-03	4.569E-03	3.235E-03	2.591E-03	2.081E-03	1.667E-03	1.068E-03	8.551E-04	5.254E-04	4.208E-04
75	5.748E-03	3.900E-03	2.596E-03	1.761E-03	1.472E-03	9.987E-04	5.469E-04	4.223E-04	4.858E-04	3.296E-04	2.391E-04	1.622E-04
90	3.158E-03	1.715E-03	1.426E-03	7.742E-04	8.087E-04	4.390E-04	2.202E-04	2.824E-04	2.669E-04	1.449E-04	1.313E-04	7.129E-05
120	1.403E-03	3.854E-04	6.338E-04	1.739E-04	3.594E-04	9.859E-05	2.312E-04	6.340E-05	1.186E-04	3.253E-05	5.838E-05	1.601E-05
150	9.069E-04	6.752E-05	4.096E-04	3.036E-05	2.323E-04	1.719E-05	1.494E-04	1.105E-05	7.665E-05	5.666E-06	3.772E-05	2.788E-06
179	7.896E-04	5.597E-07	3.566E-04	1.307E-07	2.022E-04	4.940E-08	1.301E-04	2.434E-08	6.674E-05	9.142E-09	3.284E-05	3.617E-09

F (9)

(BARNES/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.813E+13	1.814E+13	8.067E+12	8.072E+12	4.542E+12	4.545E+12	2.023E+12	2.024E+12	1.140E+12	1.141E+12	7.310E+11	7.315E+11
2	1.134E+12	1.134E+12	5.043E+11	5.046E+11	2.839E+11	2.841E+11	1.264E+11	1.265E+11	7.126E+10	7.131E+10	4.569E+10	4.573E+10
3	2.240E+11	2.241E+11	9.964E+10	9.970E+10	5.610E+10	5.614E+10	2.498E+10	2.500E+10	1.408E+10	1.409E+10	9.028E+09	9.037E+09
4	7.089E+10	7.094E+10	3.154E+10	3.156E+10	1.776E+10	1.777E+10	7.907E+09	7.914E+09	4.456E+09	4.461E+09	2.858E+09	2.861E+09
6	1.402E+10	1.403E+10	6.236E+09	6.241E+09	3.511E+09	3.514E+09	1.563E+09	1.565E+09	8.812E+08	8.823E+08	5.650E+08	5.659E+08
8	4.441E+09	4.445E+09	1.976E+09	1.977E+09	1.112E+09	1.114E+09	4.954E+08	4.961E+08	2.792E+08	2.797E+08	1.790E+08	1.794E+08
10	1.822E+09	1.824E+09	8.108E+08	8.115E+08	4.565E+08	4.570E+08	2.033E+08	2.036E+08	1.146E+08	1.148E+08	7.347E+07	7.363E+07
15	3.623E+08	3.626E+08	1.612E+08	1.614E+08	9.075E+07	9.090E+07	4.041E+07	4.050E+07	2.278E+07	2.284E+07	1.465E+07	1.465E+07
20	1.157E+08	1.158E+08	5.145E+07	5.154E+07	2.897E+07	2.903E+07	1.290E+07	1.294E+07	7.271E+06	7.298E+06	4.662E+06	4.682E+06
30	2.344E+07	2.348E+07	1.043E+07	1.045E+07	5.870E+06	5.881E+06	2.614E+06	2.626E+06	1.473E+06	1.481E+06	9.447E+05	9.504E+05
45	4.903E+06	4.920E+06	2.181E+06	2.191E+06	1.228E+06	1.235E+06	5.469E+05	5.504E+05	3.083E+05	3.104E+05	1.977E+05	1.991E+05
60	1.683E+06	1.690E+06	7.485E+05	7.529E+05	4.215E+05	4.242E+05	1.877E+05	1.890E+05	1.058E+05	1.065E+05	6.783E+04	6.832E+04
75	7.657E+05	7.701E+05	3.406E+05	3.428E+05	1.918E+05	1.931E+05	8.541E+04	8.599E+04	4.814E+04	4.845E+04	3.087E+04	3.105E+04
90	4.206E+05	4.234E+05	1.871E+05	1.884E+05	1.054E+05	1.061E+05	4.692E+04	4.720E+04	2.644E+04	2.657E+04	1.696E+04	1.702E+04
120	1.879E+05	1.884E+05	8.317E+04	8.374E+04	4.683E+04	4.710E+04	2.085E+04	2.092E+04	1.175E+04	1.176E+04	7.536E+03	7.522E+03
150	1.208E+05	1.219E+05	5.374E+04	5.411E+04	3.026E+04	3.041E+04	1.347E+04	1.349E+04	7.594E+03	7.574E+03	4.870E+03	4.870E+03
179	1.052E+05	1.061E+05	4.679E+04	4.711E+04	2.635E+04	2.647E+04	1.173E+04	1.174E+04	6.612E+03	6.586E+03	4.240E+03	4.206E+03
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	3.744E+11	3.747E+11	1.845E+11	1.847E+11	8.278E+10	8.285E+10	4.700E+10	4.704E+10	2.127E+10	2.130F+10	1.218E+10	1.219E+10
2	2.340E+10	2.342E+10	1.153E+10	1.155E+10	5.175E+09	5.181E+09	2.938E+09	2.942E+09	1.330E+09	1.332E+09	7.613E+08	7.627E+08
3	4.624E+09	4.629E+09	2.279E+09	2.282E+09	1.022E+09	1.024E+09	5.805E+08	5.815E+08	2.627E+08	2.633F+08	1.504E+08	1.508E+08
4	1.464E+09	1.466E+09	7.213E+08	7.224E+08	3.236E+08	3.242E+08	1.837E+08	1.841E+08	8.316E+07	8.338E+07	4.761E+07	4.775E+07
6	2.894E+08	2.899E+08	1.426E+08	1.429E+08	6.399E+07	6.416E+07	3.633E+07	3.644E+07	1.644E+07	1.650E+07	9.414E+06	9.453E+06
8	9.170E+07	9.191E+07	4.519E+07	4.532E+07	2.027E+07	2.034E+07	1.151E+07	1.156E+07	5.210E+06	5.236E+06	2.983E+06	2.998E+06
10	3.763E+07	3.773E+07	1.854E+07	1.861E+07	8.320E+06	8.354E+06	4.724E+06	4.745E+06	2.138E+06	2.150E+06	1.224E+06	1.231E+06
15	7.480E+06	7.510E+06	3.686E+06	3.704E+06	1.654E+06	1.663E+06	9.390E+05	9.449E+05	4.250E+05	4.280E+05	2.433E+05	2.452E+05
20	2.388E+06	2.400E+06	1.177E+06	1.184E+06	5.280E+05	5.316E+05	2.998E+05	3.020E+05	1.357E+05	1.368E+05	7.768E+04	7.836E+04
30	4.838E+05	4.872E+05	2.384E+05	2.403E+05	1.070E+05	1.079E+05	6.074E+04	6.126E+04	2.749E+04	2.773E+04	1.574F+04	1.587E+04
45	1.012E+05	1.020E+05	4.989E+04	5.029E+04	2.238E+04	2.255E+04	1.271E+04	1.280E+04	5.752E+03	5.780E+03	3.293F+03	3.301E+03
60	3.474E+04	3.498E+04	1.712E+04	1.722E+04	7.681E+03	7.710E+03	4.361E+03	4.367E+03	1.974E+03	1.966E+03	1.130E+03	1.119E+03
75	1.581E+04	1.588E+04	7.791E+03	7.807E+03	3.495E+03	3.487E+03	1.985E+03	1.970E+03	8.982E+02	8.829E+02	5.143F+02	5.005E+02
90	6.685E+03	6.694E+03	4.280E+03	4.266E+03	1.920E+03	1.900E+03	1.090E+03	1.071E+03	4.935E+02	4.774F+02	2.825E+02	2.693E+02
120	3.860E+03	3.832E+03	1.902E+03	1.874E+03	8.534E+02	8.296E+02	4.845E+02	4.649E+02	2.193E+02	2.051F+02	1.256E+02	1.145E+02
150	2.494E+03	2.460E+03	1.229E+03	1.199E+03	5.515E+02	5.286E+02	3.131E+02	2.949E+02	1.417E+02	1.290E+02	8.114E+01	7.140E+01
179	2.172E+03	2.136E+03	1.070E+03	1.040E+03	4.801E+02	4.577E+02	2.726E+02	2.549E+02	1.234E+02	1.111F+02	7.064F+01	6.132E+01
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	7.930E+09	7.940E+09	4.182E+09	4.188E+09	2.147E+09	2.150E+09	1.023E+09	1.025E+09	6.127E+08	6.138E+08	3.027E+08	3.033E+08
2	4.957E+08	4.967E+08	2.614E+08	2.620E+08	1.342E+08	1.345E+08	6.397E+07	6.414E+07	3.830E+07	3.841E+07	1.892F+07	1.898E+07
3	9.795E+07	9.820E+07	5.165E+07	5.180E+07	2.651E+07	2.660E+07	1.264E+07	1.269E+07	7.567E+06	7.597E+06	3.739E+06	3.755E+06
4	3.100E+07	3.110E+07	1.635E+07	1.641E+07	8.392E+06	8.426E+06	4.001E+06	4.019E+06	2.395E+06	2.407E+06	1.183F+06	1.190E+06
6	6.138E+06	6.157E+06	3.233E+06	3.249E+06	1.659E+06	1.669E+06	7.911E+05	7.960E+05	4.736E+05	4.767E+05	2.340E+05	2.357E+05
8	1.942E+06	1.953E+06	1.024E+06	1.031E+06	5.258E+05	5.294E+05	2.507E+05	2.525E+05	1.501E+05	1.517F+05	7.414E+04	7.477E+04
10	7.707E+05	8.022E+05	4.203E+05	4.233E+05	2.158E+05	2.174E+05	1.029E+05	1.037E+05	6.158E+04	6.212E+04	3.042E+04	3.071E+04
15	1.584E+05	1.597E+05	8.356E+04	8.429E+04	4.269E+04	4.329E+04	2.045E+04	2.064E+04	1.224E+04	1.236E+04	6.048E+03	6.106E+03
20	5.058E+04	5.104E+04	2.667E+04	2.692E+04	1.369E+04	1.382E+04	6.528E+03	6.586E+03	3.908E+03	3.940F+03	1.931F+03	1.945E+03
30	1.025E+04	1.033E+04	5.405E+03	5.442E+03	2.774E+03	2.788E+03	1.323E+03	1.325E+03	7.918E+02	7.907F+02	3.912E+02	3.888E+02
45	2.144E+03	2.144E+03	1.131E+03	1.125E+03	5.865E+02	5.733E+02	2.767E+02	2.704E+02	1.657E+02	1.606E+02	8.186E+01	7.815E+01
60	7.358E+02	7.245E+02	3.881E+02	3.779E+02	1.992E+02	1.911E+02	9.496E+01	8.910E+01	5.685E+01	5.237F+01	2.809F+01	2.515E+01
75	3.349E+02	3.228E+02	1.766E+02	1.671E+02	9.065E+01	8.361E+01	4.322E+01	3.841E+01	2.587E+01	2.229F+01	1.278F+01	1.050E+01
90	1.840E+02	1.729E+02	9.701E+01	8.870E+01	4.980E+01	4.483E+01	2.374E+01	1.977E+01	1.421E+01	1.129E+01	7.022F+00	5.184E+00
120	8.176E+01	7.275E+01	4.312E+01	3.660E+01	2.213E+01	1.749E+01	1.055E+01	7.594E+00	6.317E+00	4.169E+00	3.121E+00	1.784E+00
150	5.283E+01	4.499E+01	2.786E+01	2.226E+01	1.430E+01	1.044E+01	6.818E+00	4.326E+00	4.082E+00	2.280E+00	2.017E+00	9.007E-01
179	4.600E+01	3.851E+01	2.426E+01	1.893E+01	1.245E+01	8.786E+00	5.936E+00	3.578E+00	3.554E+00	1.851F+00	1.756F+00	7.039E-01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.857E+08	1.861E+08	1.278E+08	1.280E+08	7.307E+07	7.322E+07	4.043E+07	4.051E+07	2.046E+07	2.050E+07	1.250E+07	1.252E+07
2	1.161E+07	1.165E+07	7.987E+06	8.014E+06	4.567E+06	4.583E+06	2.527E+06	2.536E+06	1.279E+06	1.284E+06	7.811E+05	7.840E+05
3	2.294E+06	2.304E+06	1.578E+06	1.585E+06	9.024E+05	9.048E+05	4.993E+05	5.018E+05	2.527E+05	2.539E+05	1.543E+05	1.551E+05
4	7.260E+05	7.300E+05	4.995E+05	5.024E+05	2.856E+05	2.873E+05	1.580E+05	1.590E+05	7.997E+04	8.047E+04	4.885E+04	4.916E+04
6	1.435E+05	1.446E+05	9.876E+04	9.952E+04	5.648E+04	5.692E+04	3.125E+04	3.150E+04	1.581E+04	1.594E+04	9.659E+03	9.738E+03
8	4.548E+04	4.588E+04	3.129E+04	3.157E+04	1.790E+04	1.806E+04	9.901E+03	9.994E+03	5.011E+03	5.058E+03	3.060E+03	3.089E+03
10	1.866E+04	1.884E+04	1.284E+04	1.297E+04	7.344E+03	7.415E+03	4.063E+03	4.103E+03	2.056E+03	2.077E+03	1.256E+03	1.268E+03
15	3.710E+03	3.745E+03	2.553E+03	2.577E+03	1.460E+03	1.473E+03	8.077E+02	8.148E+02	4.087E+02	4.122E+02	2.496E+02	2.517E+02
20	1.184E+03	1.192E+03	8.149E+02	8.194E+02	4.660E+02	4.681E+02	2.578E+02	2.588E+02	1.305E+02	1.309E+02	7.969E+01	7.990E+01
30	2.400E+02	2.377E+02	1.651E+02	1.631E+02	9.443E+01	9.297E+01	5.225E+01	5.129E+01	2.644E+01	2.589E+01	1.615E+01	1.580E+01
45	5.021E+01	4.746E+01	3.455E+01	3.242E+01	1.976E+01	1.836E+01	1.093E+01	1.007E+01	5.532E+00	5.065E+00	3.379E+00	3.084E+00
60	1.723E+01	1.512E+01	1.186E+01	1.025E+01	6.780E+00	5.746E+00	3.751E+00	3.126E+00	1.898E+00	1.561E+00	1.159E+00	9.475E+00
75	7.841E+00	6.212E+00	5.395E+00	4.171E+00	3.085E+00	2.303E+00	1.707E+00	1.237E+00	8.638E+01	6.111E+01	5.276E+01	3.690E+01
90	4.308E+00	3.021E+00	2.964E+00	1.989E+00	1.695E+00	1.075E+00	9.378E+01	5.660E+01	4.745E+01	2.751E+01	2.898E+01	1.648E+01
120	1.915E+00	9.780E+01	1.317E+00	6.152E+01	7.533E+01	3.089E+01	4.168E+01	1.511E+01	2.109E+01	6.865E+02	1.288E+02	9.772E+02
150	1.237E+00	4.571E+01	8.512E+01	2.674E+01	4.868E+01	1.176E+01	2.693E+01	4.901E+02	1.363E+01	1.844E+02	8.324E+02	3.460E+03
179	1.077E+00	3.418E+01	7.411E+01	1.910E+01	4.238E+01	7.612E+02	2.345E+01	2.706E+02	1.187E+01	7.734E+03	7.247E+02	3.032E+03
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	6.130E+06	6.143E+06	3.651E+06	3.659E+06	2.425E+06	2.431E+06	1.295E+06	1.298E+06	6.584E+05	6.599E+05	3.015E+05	3.022E+05
2	3.832E+05	3.846E+05	2.282E+05	2.291E+05	1.516E+05	1.522E+05	8.096E+04	8.127E+04	4.115E+04	4.131E+04	1.885E+04	1.892E+04
3	7.571E+04	7.610E+04	4.509E+04	4.532E+04	2.995E+04	3.011E+04	1.600E+04	1.608E+04	8.131E+03	8.173E+03	3.724E+03	3.744E+03
4	2.396E+04	2.411E+04	1.427E+04	1.436E+04	9.880E+03	9.941E+03	5.063E+03	5.096E+03	2.574E+03	2.590E+03	1.179E+03	1.186E+03
6	4.738E+03	4.777E+03	2.822E+03	2.845E+03	1.875E+03	1.890E+03	1.001E+03	1.009E+03	5.089E+02	5.131E+02	2.331E+02	2.350E+02
8	1.501E+03	1.516E+03	8.941E+02	9.026E+02	5.940E+02	5.995E+02	3.172E+02	3.202E+02	1.612E+02	1.628E+02	7.388E+01	7.456E+01
10	6.161E+02	6.222E+02	3.669E+02	3.706E+02	2.437E+02	2.462E+02	1.302E+02	1.315E+02	6.617E+01	6.683E+01	3.031E+01	3.051E+01
15	1.225E+02	1.235E+02	7.294E+01	7.354E+01	4.845E+01	4.885E+01	2.588E+01	2.609E+01	1.315E+01	1.326E+01	6.025E+00	6.074E+00
20	3.909E+01	3.918E+01	2.328E+01	2.333E+01	1.947E+01	1.950E+01	8.261E+00	8.277E+00	4.199E+00	4.207E+00	1.923E+00	1.927E+00
30	7.922E+00	7.743E+00	4.718E+00	4.609E+00	3.134E+00	3.061E+00	1.674E+00	1.635E+00	8.508E+01	8.309E+01	3.897E+01	3.805E+01
45	1.657E+00	1.509E+00	9.871E+01	8.976E+01	6.558E+01	5.959E+01	3.502E+01	3.181E+01	1.780E+01	1.616E+01	8.154E+02	7.403E+02
60	5.687E+01	4.622E+01	3.387E+01	2.747E+01	2.250E+01	1.822E+01	1.202E+01	9.722E+02	6.109E+02	4.939E+02	2.798E+02	2.261E+02
75	2.588E+01	1.792E+01	1.542E+01	1.063E+01	1.024E+01	7.046E+02	5.469E+02	3.756E+02	2.780E+02	1.907E+02	1.273E+02	8.728E+03
90	1.422E+01	7.947E+02	8.468E+02	4.699E+02	5.626E+02	3.110E+02	3.004E+02	1.655E+02	1.527E+02	8.398E+03	8.995E+03	3.842E+03
120	6.319E+02	1.854E+02	3.764E+02	1.081E+02	2.500E+02	7.100E+03	1.335E+02	3.753E+03	6.787E+03	1.896E+04	3.109E+03	8.655E+04
150	4.083E+02	3.867E+03	2.432E+02	2.113E+03	1.616E+02	1.340E+03	8.628E+03	6.833E+04	4.386E+03	3.380E+04	2.009E+03	1.524E+04
179	3.555E+02	7.623E+04	2.117E+02	2.757E+04	1.407E+02	1.231E+04	7.512E+03	3.569E+05	3.819E+03	9.424E+06	1.749E+03	2.063E+06
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.723E+05	1.727E+05	7.781E+04	7.798E+04	4.413E+04	4.423E+04	2.838E+04	2.844E+04	1.456E+04	1.460E+04	7.166E+03	7.182E+03
2	1.077E+04	1.081E+04	4.864E+03	4.882E+03	2.758E+03	2.769E+03	1.774E+03	1.781E+03	9.103E+02	9.137E+02	4.480E+02	4.497E+02
3	2.128E+03	2.139E+03	9.610E+02	9.660E+02	5.450E+02	5.478E+02	3.505E+02	3.523E+02	1.799E+02	1.808E+02	8.851E+01	8.897E+01
4	6.735E+02	6.778E+02	3.042E+02	3.061E+02	1.725E+02	1.736E+02	1.109E+02	1.117E+02	5.693E+01	5.729E+01	2.801E+01	2.819E+01
6	1.332E+02	1.343E+02	6.014E+01	6.065E+01	3.411E+01	3.439E+01	2.194E+01	2.212E+01	1.126E+01	1.135E+01	5.539E+00	5.585E+00
8	4.220E+01	4.260E+01	1.906E+01	1.924E+01	1.081E+01	1.091E+01	6.951E+00	7.017E+00	3.567E+00	3.601E+00	1.755E+00	1.772E+00
10	1.752E+01	1.749E+01	7.820E+00	7.899E+00	4.435E+00	4.479E+00	2.852E+00	2.881E+00	1.464E+00	1.478E+00	7.202E+01	7.275E+01
15	3.442E+00	3.471E+00	1.555E+00	1.567E+00	8.816E+01	8.888E+01	5.675E+01	5.717E+01	2.909E+01	2.933E+01	1.432E+01	1.444E+01
20	1.099E+00	1.101E+00	4.963E+01	4.972E+01	2.814E+01	2.820E+01	1.810E+01	1.814E+01	9.288E+02	9.306E+02	4.571E+02	4.580E+02
30	2.227E+01	2.174E+01	1.006E+01	9.818E+02	5.703E+02	5.568E+02	3.668E+02	3.581E+02	1.882E+02	1.838E+02	9.261E+03	9.043E+03
45	4.659E+02	4.229E+02	2.194E+02	1.910E+02	1.193E+02	1.083E+02	7.674E+03	6.966E+03	3.938E+03	3.574E+03	1.938E+03	1.759E+03
60	1.599E+02	1.292E+02	7.220E+03	5.834E+03	4.094E+03	3.308E+03	2.633E+03	2.128E+03	1.351E+03	1.092E+03	6.649E+04	5.372E+04
75	7.275E+03	4.986E+03	3.286E+03	2.251E+03	1.863E+03	1.277E+03	1.198E+03	8.210E+04	6.149E+04	4.213E+04	3.026E+04	2.073E+04
90	3.997E+03	2.194E+03	1.805E+03	9.907E+04	1.024E+03	5.618E+04	6.583E+04	3.613E+04	3.370E+04	1.854E+04	1.662E+04	9.123E+05
120	1.776E+03	4.939E+04	8.022E+04	2.228E+04	4.549E+04	1.263E+04	2.926E+04	8.124E+05	1.501E+04	4.168E+05	7.388E+05	2.051E+05
150	1.148E+03	8.659E+05	5.183E+04	3.894E+05	2.940E+04	2.205E+05	1.391E+04	1.417E+05	9.701E+05	7.267E+06	4.774E+05	3.575E+06
179	9.993E+04	7.105E+07	4.513E+04	1.661E+07	2.559E+04	6.288E+08	1.646E+04	3.102E+08	6.446E+05	1.167E+08	4.156E+05	4.628E+09

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-00MEV		1.5E-00MEV		2.0E-00MEV	
1	2.293E+08	2.298E+08	1.577E+08	1.581E+08	9.021E+07	9.041E+07	4.991E+07	5.003E+07	2.524E+07	2.532E+07	1.543E+07	1.546E+07
2	1.433E+07	1.438E+07	9.860E+06	9.897E+06	5.637E+06	5.661E+06	3.120E+06	3.132E+06	1.579E+06	1.585E+06	9.643E+05	9.683E+05
3	2.832E+06	2.846E+06	1.948E+06	1.958E+06	1.114E+06	1.120E+06	6.164E+05	6.194E+05	3.114E+05	3.137E+05	1.905E+05	1.918E+05
4	8.962E+05	9.018E+05	6.167E+05	6.204E+05	3.528E+05	3.550E+05	1.951E+05	1.964E+05	9.873E+04	9.947E+04	6.030E+04	6.073E+04
6	1.772E+05	1.787E+05	1.219E+05	1.230E+05	6.973E+04	7.033E+04	3.858E+04	3.893E+04	1.953E+04	1.970E+04	1.197E+04	1.204E+04
8	5.915E+04	5.972E+04	3.863E+04	3.903E+04	2.205E+04	2.233E+04	1.222E+04	1.238E+04	6.186E+03	6.244E+03	3.778E+03	3.820E+03
10	2.364E+04	2.330E+04	1.585E+04	1.603E+04	9.068E+03	9.172E+03	5.016E+03	5.075E+03	2.538E+03	2.564E+03	1.550E+03	1.564E+03
15	4.588E+03	4.635E+03	3.152E+03	3.189E+03	1.802E+03	1.853E+03	9.971E+02	1.004E+03	5.044E+02	5.103E+02	3.082E+02	3.117E+02
20	1.462E+03	1.476E+03	1.006E+03	1.015E+03	5.753E+02	5.799E+02	3.163E+02	3.206E+02	1.611E+02	1.621E+02	9.834E+01	9.860E+01
30	2.963E+02	2.948E+02	2.039E+02	2.023E+02	1.164E+02	1.143E+02	6.456E+01	6.363E+01	3.264E+01	3.213E+01	1.994E+01	1.963E+01
45	6.199E+01	5.894E+01	4.265E+01	4.027E+01	2.439E+01	2.241E+01	1.350E+01	1.252E+01	6.824E+00	6.244E+00	4.171E+00	3.834E+00
60	2.127E+01	1.840E+01	1.464E+01	1.275E+01	8.370E+00	7.160E+00	4.631E+00	3.891E+00	2.333E+00	1.964E+00	1.431E+00	1.180E+00
75	9.881E+00	7.738E+00	6.661E+00	5.191E+00	3.809E+00	2.860E+00	2.107E+00	1.541E+00	1.064E+00	7.417E+00	5.514E+00	4.001E+00
90	5.318E+00	3.747E+00	3.659E+00	2.476E+00	2.093E+00	1.339E+00	1.159E+00	7.056E+00	5.844E+00	4.377E+00	3.578E+00	2.057E+00
120	2.364E+00	1.215E+00	1.626E+00	7.651E+00	9.300E+01	3.862E+01	5.146E+01	1.893E+01	2.004E+01	9.447E+02	1.024E+01	4.960E+02
150	1.527E+00	5.665E+01	1.051E+00	3.315E+01	6.007E+01	1.440E+01	3.325E+01	6.084E+02	1.083E+01	2.286E+02	1.024E+01	1.174E+02
179	1.330E+00	4.228E+01	9.149E+00	2.362E+01	5.232E+01	9.415E+02	2.895E+01	3.347E+02	1.465E+01	9.587E+03	8.947E+02	3.751E+03
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	7.567E+06	7.586E+06	4.507E+06	4.518E+06	2.998E+06	3.001E+06	1.599E+06	1.603E+06	8.128E+05	8.148E+05	3.723E+05	3.732E+05
2	4.730E+05	4.750E+05	2.817E+05	2.829E+05	1.672E+05	1.679E+05	9.995E+04	1.004E+05	5.041E+04	5.102E+04	2.327E+04	2.337E+04
3	9.346E+04	9.400E+04	5.566E+04	5.599E+04	3.698E+04	3.719E+04	1.975E+04	1.988E+04	1.004E+04	1.010E+04	4.598E+03	4.625E+03
4	2.958E+04	2.979E+04	1.762E+04	1.774E+04	1.170E+04	1.179E+04	6.251E+03	6.268E+03	3.177E+03	3.200E+03	1.455E+03	1.466E+03
6	5.849E+03	5.935E+03	3.484E+03	3.517E+03	2.314E+03	2.338E+03	1.368E+03	1.384E+03	6.243E+02	6.342E+02	2.878E+02	2.905E+02
8	1.853E+03	1.874E+03	1.104E+03	1.116E+03	7.333E+02	7.415E+02	3.914E+02	3.968E+02	1.941E+02	2.013E+02	9.118E+01	9.220E+01
10	7.606E+02	7.697E+02	4.530E+02	4.594E+02	3.009E+02	3.045E+02	1.607E+02	1.624E+02	8.144E+01	8.247E+01	3.742E+01	3.787E+01
15	1.512E+02	1.529E+02	9.005E+01	9.105E+01	5.942E+01	6.049E+01	3.192E+01	3.230E+01	1.624E+01	1.647E+01	7.438E+00	7.521E+00
20	4.827E+01	4.855E+01	2.875E+01	2.891E+01	1.919E+01	1.931E+01	1.020E+01	1.028E+01	5.184E+00	5.214E+00	2.374E+00	2.388E+00
30	9.780E+00	9.609E+00	5.625E+00	5.721E+00	3.669E+00	3.749E+00	2.060E+00	2.024E+00	1.058E+00	1.031E+00	4.811E+00	4.723E+00
45	2.044E+00	1.876E+00	1.219E+00	1.116E+00	6.096E+01	7.410E+01	4.324E+01	3.954E+01	2.194E+01	2.010E+01	1.007E+01	9.265E+02
60	7.022E+01	5.756E+01	4.182E+01	3.421E+01	2.778E+01	2.270E+01	1.404E+01	1.211E+01	7.562E+00	6.193E+00	3.558E+00	2.817E+00
75	3.195E+01	2.235E+01	1.903E+01	1.325E+01	1.244E+01	8.747E+02	6.752E+02	4.684E+02	3.432E+02	2.374E+02	1.577E+02	1.084E+02
90	1.755E+01	9.919E+02	1.045E+01	5.866E+02	6.945E+02	3.883E+02	3.704E+02	2.067E+02	1.885E+02	1.844E+02	8.636E+01	4.797E+01
120	7.802E+02	2.316E+02	4.647E+02	1.350E+02	3.087E+02	8.874E+03	1.644E+02	4.691E+03	8.388E+03	2.370E+03	3.838E+03	1.087E+03
150	5.041E+02	4.827E+03	3.002E+02	2.639E+03	1.995E+02	1.674E+03	1.085E+02	8.545E+04	5.419E+03	4.728E+04	2.488E+03	1.907E+04
179	4.389E+02	9.429E+04	2.614E+02	3.411E+04	1.717E+02	1.532E+04	9.274E+02	4.414E+05	4.714E+03	1.164E+05	2.159E+03	2.554E+05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	2.127E+05	2.132E+05	9.606E+04	9.630E+04	5.448E+04	5.441E+04	3.504E+04	3.512E+04	1.798E+04	1.802E+04	8.847E+03	8.844E+03
2	1.330E+04	1.335E+04	6.005E+03	6.030E+03	3.405E+03	3.419E+03	2.190E+03	2.194E+03	1.124E+03	1.128E+03	5.530E+02	5.531E+02
3	2.627E+03	2.642E+03	1.186E+03	1.193E+03	5.728E+02	5.747E+02	4.327E+02	4.352E+02	2.220E+02	2.233E+02	1.083E+02	1.084E+02
4	8.315E+02	8.375E+02	3.755E+02	3.782E+02	2.130E+02	2.145E+02	1.370E+02	1.386E+02	7.028E+01	7.079E+01	3.454E+01	3.483E+01
6	1.644E+02	1.660E+02	7.425E+01	7.496E+01	4.211E+01	4.251E+01	2.708E+01	2.734E+01	1.390E+01	1.403E+01	6.839E+00	6.904E+00
8	5.210E+01	5.268E+01	2.353E+01	2.379E+01	1.334E+01	1.344E+01	6.581E+00	6.677E+00	4.403E+00	4.457E+00	2.167E+00	2.191E+00
10	2.139E+01	2.163E+01	9.654E+00	9.770E+00	5.475E+00	5.541E+00	3.511E+00	3.564E+00	1.807E+00	1.824E+00	8.827E+00	8.899E+00
15	4.250E+00	4.297E+00	1.919E+00	1.941E+00	1.088E+00	1.100E+00	7.000E+01	7.078E+01	3.592E+01	3.632E+01	1.788E+01	1.787E+01
20	1.357E+00	1.364E+00	6.127E+01	6.162E+01	3.474E+01	3.494E+01	2.235E+01	2.247E+01	1.147E+01	1.153E+01	5.643E+02	5.675E+02
30	2.749E+01	2.698E+01	1.241E+01	1.219E+01	7.404E+02	6.911E+02	4.524E+02	4.445E+02	2.323E+02	2.241E+02	1.143E+02	1.127E+02
45	5.752E+02	5.259E+02	2.597E+02	2.375E+02	1.473E+02	1.347E+02	4.474E+03	4.062E+03	4.861E+03	4.445E+03	2.382E+03	2.187E+03
60	1.974E+02	1.609E+02	8.913E+03	7.266E+03	5.055E+03	4.170E+03	3.251E+03	2.650E+03	1.684E+03	1.364E+03	9.269E+02	6.691E+02
75	6.982E+03	6.216E+03	4.056E+03	2.808E+03	2.300E+03	1.562E+03	1.479E+03	1.024E+03	7.501E+04	4.254E+04	3.738E+04	2.585E+04
90	4.934E+03	2.740E+03	2.224E+03	1.237E+03	1.244E+03	7.013E+04	8.127E+04	4.511E+04	4.170E+04	2.314E+04	2.052E+04	1.139E+04
120	2.193E+03	6.175E+04	9.903E+04	2.786E+04	5.619E+04	1.580E+04	3.612E+04	1.010E+04	1.853E+04	4.211E+05	9.121E+04	2.564E+05
150	1.417E+03	1.083E+04	6.399E+04	4.872E+05	3.629E+04	2.749E+05	2.334E+04	1.773E+05	1.198E+04	9.803E+06	5.894E+04	4.773E+06
179	1.234E+03	8.801E+07	5.572E+04	2.060E+07	3.140E+04	2.869E+08	2.032E+04	3.858E+08	1.043E+04	1.455E+08	5.131E+04	5.771E+09

NA (11)

(HARNS/STRAOJAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	2.709E+13	2.710E+13	1.205E+13	1.206E+13	6.785E+12	6.789E+12	3.022E+12	3.023E+12	1.703E+12	1.704E+12	1.092E+12	1.093E+12
2	1.693E+12	1.694E+12	7.533E+11	7.538E+11	4.241E+11	4.244E+11	1.089E+11	1.090E+11	1.064E+11	1.065E+11	6.826E+10	6.832E+10
3	3.346E+11	3.348E+11	1.488E+11	1.489E+11	8.380E+10	8.386E+10	3.732E+10	3.735E+10	2.103E+10	2.105E+10	1.349E+10	1.350E+10
4	1.059E+11	1.060E+11	4.711E+10	4.714E+10	2.653E+10	2.665E+10	1.181E+10	1.182E+10	6.657E+09	6.664E+09	4.269E+09	4.274E+09
6	2.094E+10	2.095E+10	9.315E+09	9.322E+09	5.245E+09	5.249E+09	2.336E+09	2.338E+09	1.316E+09	1.317E+09	8.441E+08	8.453E+08
8	6.635E+09	6.640E+09	2.952E+09	2.954E+09	1.662E+09	1.663E+09	7.400E+08	7.409E+08	4.171E+08	4.177E+08	2.675E+08	2.679E+08
10	2.722E+09	2.725E+09	1.211E+09	1.212E+09	6.820E+08	6.826E+08	3.373E+08	3.041E+08	1.712E+08	1.715E+08	1.097E+08	1.100E+08
15	5.412E+08	5.416E+08	2.408E+08	2.410E+08	1.356E+08	1.357E+08	6.037E+07	6.050E+07	3.402E+07	3.412E+07	2.182E+07	2.189E+07
20	1.728E+08	1.729E+08	7.686E+07	7.696E+07	4.328E+07	4.336E+07	1.927E+07	1.933E+07	1.086E+07	1.090E+07	6.965E+06	6.968E+06
30	3.501E+07	3.505E+07	1.557E+07	1.561E+07	8.769E+06	8.800E+06	3.905E+06	3.925E+06	2.201E+06	2.215E+06	1.411E+06	1.421E+06
45	7.325E+06	7.346E+06	3.259E+06	3.274E+06	1.835E+06	1.849E+06	8.170E+05	8.234E+05	4.605E+05	4.646E+05	2.953E+05	2.981E+05
60	2.513E+06	2.526E+06	1.118E+06	1.126E+06	6.296E+05	6.366E+05	2.804E+05	2.830E+05	1.580E+05	1.596E+05	1.013E+05	1.024E+05
75	1.144E+06	1.152E+06	5.089E+05	5.131E+05	2.865E+05	2.891E+05	1.276E+05	1.289E+05	7.191E+04	7.263E+04	4.611E+04	4.656E+04
90	6.284E+05	6.336E+05	2.795E+05	2.822E+05	1.574E+05	1.589E+05	7.009E+04	7.077E+04	3.950E+04	3.986E+04	2.533E+04	2.554E+04
120	2.793E+05	2.825E+05	1.242E+05	1.256E+05	6.995E+04	7.348E+04	3.115E+04	3.141E+04	1.756E+04	1.766E+04	1.126E+04	1.130E+04
150	1.805E+05	1.830E+05	8.028E+04	8.130E+04	4.520E+04	4.569E+04	2.013E+04	2.027E+04	1.134E+04	1.138E+04	7.275E+03	7.271E+03
179	1.571E+05	1.596E+05	6.990E+04	7.083E+04	3.936E+04	3.979E+04	1.753E+04	1.764E+04	9.877E+03	9.900E+03	6.334E+03	6.321E+03
DEG	7.0E-02MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	5.593E+11	5.597E+11	2.756E+11	2.758E+11	1.237E+11	1.238E+11	7.021E+10	7.028E+10	3.178E+10	3.181E+10	1.819E+10	1.822E+10
2	3.496E+10	3.499E+10	1.723E+10	1.725E+10	7.730E+09	7.740E+09	4.389E+09	4.395E+09	1.986E+09	1.990E+09	1.137E+09	1.140E+09
3	6.907E+09	6.915E+09	3.404E+09	3.409E+09	1.527E+09	1.530E+09	8.671E+08	8.688E+08	3.925E+08	3.934E+08	2.247E+08	2.253E+08
4	2.186E+09	2.189E+09	1.077E+09	1.079E+09	4.834E+08	4.844E+08	2.745E+08	2.751E+08	1.242E+08	1.244E+08	7.112E+07	7.137E+07
6	4.323E+08	4.331E+08	2.130E+08	2.136E+08	9.559E+07	9.574E+07	5.427E+07	5.446E+07	2.456E+07	2.467E+07	1.408E+07	1.413E+07
8	1.378E+08	1.373E+08	6.751E+07	6.771E+07	3.029E+07	3.040E+07	1.720E+07	1.727E+07	7.783E+06	7.825E+06	4.456E+06	4.484E+06
10	5.621E+07	5.638E+07	2.770E+07	2.780E+07	1.243E+07	1.249E+07	7.056E+06	7.095E+06	3.194E+06	3.215E+06	1.829E+06	1.842E+06
15	1.117E+07	1.122E+07	5.507E+06	5.537E+06	2.471E+06	2.487E+06	1.403E+06	1.414E+06	6.349E+05	6.406E+05	3.635E+05	3.671E+05
20	3.567E+06	3.588E+06	1.758E+06	1.770E+06	7.887E+05	7.945E+05	4.478E+05	4.521E+05	2.027E+05	2.049E+05	1.160E+05	1.174E+05
30	7.229E+05	7.289E+05	3.562E+05	3.597E+05	1.598E+05	1.616E+05	9.073E+04	9.181E+04	4.107E+04	4.159E+04	2.351E+04	2.382E+04
45	1.518E+05	1.528E+05	7.453E+04	7.538E+04	3.344E+04	3.363E+04	1.898E+04	1.920E+04	8.593E+03	8.680E+03	4.926E+03	4.961E+03
60	5.189E+04	5.245E+04	2.557E+04	2.584E+04	1.147E+04	1.158E+04	6.514E+03	6.559E+03	2.909E+03	2.955E+03	1.688E+03	1.683E+03
75	2.362E+04	2.383E+04	1.164E+04	1.172E+04	5.222E+03	5.238E+03	2.965E+03	2.961E+03	1.422E+03	1.328E+03	7.683E+02	7.533E+02
90	1.297E+04	1.305E+04	6.393E+03	6.407E+03	2.868E+03	2.855E+03	1.629E+03	1.609E+03	7.371E+02	7.180E+02	4.220E+02	4.053E+02
120	5.766E+03	5.756E+03	2.842E+03	2.815E+03	1.275E+03	1.246E+03	7.238E+02	6.986E+02	3.276E+02	3.082E+02	1.766E+02	1.721E+02
150	3.726E+03	3.696E+03	1.836E+03	1.802E+03	8.239E+02	7.939E+02	4.677E+02	4.429E+02	2.117E+02	1.937E+02	1.212E+02	1.072E+02
179	3.244E+03	3.210E+03	1.599E+03	1.563E+03	7.172E+02	6.875E+02	4.072E+02	3.828E+02	1.843E+02	1.664E+02	1.055E+02	9.205E+01
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	1.185E+10	1.186E+10	6.248E+09	6.257E+09	3.207E+09	3.212E+09	1.529E+09	1.532E+09	9.152E+08	9.171E+08	4.522E+08	4.532E+08
2	7.405E+08	7.421E+08	3.905E+08	3.915E+08	2.005E+08	2.010E+08	9.557E+07	9.587E+07	5.721E+07	5.740E+07	2.827E+07	2.837E+07
3	4.663E+08	4.677E+08	7.716E+07	7.742E+07	3.961E+07	3.976E+07	1.888E+07	1.894E+07	1.130E+07	1.136E+07	5.585E+06	5.614E+06
4	4.631E+07	4.649E+07	2.442E+07	2.453E+07	1.254E+07	1.260E+07	5.977E+06	6.010E+06	3.578E+06	3.599E+06	1.768E+06	1.779E+06
6	9.157E+06	9.206E+06	4.829E+06	4.858E+06	2.479E+06	2.496E+06	1.182E+06	1.191E+06	7.075E+05	7.133E+05	3.452E+05	3.527E+05
8	2.904E+06	2.921E+06	1.530E+06	1.542E+06	7.855E+05	7.951E+05	3.744E+05	3.780E+05	2.242E+05	2.264E+05	1.108E+05	1.120E+05
10	1.191E+06	1.200E+06	6.279E+05	6.335E+05	3.223E+05	3.255E+05	1.537E+05	1.553E+05	9.199E+04	9.305E+04	4.545E+04	4.601E+04
15	2.367E+05	2.392E+05	1.248E+05	1.263E+05	6.407E+04	6.488E+04	3.055E+04	3.095E+04	1.829E+04	1.854E+04	9.035E+03	9.163E+03
20	7.556E+04	7.649E+04	3.985E+04	4.037E+04	2.045E+04	2.073E+04	9.751E+03	9.886E+03	5.837E+03	5.917E+03	2.884E+03	2.922E+03
30	1.531E+04	1.551E+04	8.074E+03	8.174E+03	4.145E+03	4.190E+03	1.976E+03	1.993E+03	1.183E+03	1.196E+03	5.844E+02	5.857E+02
45	3.203E+03	3.224E+03	1.689E+03	1.693E+03	8.672E+02	8.644E+02	4.134E+02	4.077E+02	2.475E+02	2.420E+02	1.223E+02	1.181E+02
60	1.098E+03	1.090E+03	5.797E+02	5.693E+02	2.976E+02	2.881E+02	1.419E+02	1.345E+02	8.492E+01	7.915E+01	4.196E+01	3.807E+01
75	5.008E+02	4.860E+02	2.638E+02	2.518E+02	1.354E+02	1.261E+02	6.456E+01	5.803E+01	3.865E+01	3.372E+01	1.909E+01	1.591E+01
90	2.748E+02	2.603E+02	1.449E+02	1.336E+02	7.437E+01	6.612E+01	3.546E+01	2.987E+01	2.123E+01	1.707E+01	1.049E+01	7.855E+00
120	1.221E+02	1.094E+02	6.441E+01	5.507E+01	3.306E+01	2.648E+01	1.576E+01	1.145E+01	9.436E+00	6.290E+00	4.662E+00	2.697E+00
150	7.892E+01	6.756E+01	4.162E+01	3.343E+01	2.136E+01	1.568E+01	1.018E+01	6.500E+00	6.097E+00	3.427E+00	3.013E+00	1.355E+00
179	6.871E+01	5.780E+01	3.624E+01	2.841E+01	1.860E+01	1.318E+01	8.867E+00	5.369E+00	5.308E+00	2.777E+00	2.623E+00	1.055E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	2.774E+08	2.780E+08	1.909E+08	1.913E+08	1.092E+08	1.094E+08	6.039E+07	6.054E+07	3.056E+07	3.064E+07	1.867E+07	1.871E+07
2	1.734E+07	1.741E+07	1.193E+07	1.198E+07	6.823E+06	6.852E+06	3.775E+06	3.791E+06	1.910E+06	1.919E+06	1.167E+06	1.172E+06
3	3.426E+06	3.445E+06	2.357E+06	2.371E+06	1.348E+06	1.356E+06	7.459E+05	7.504E+05	3.774E+05	3.798E+05	2.305E+05	2.320E+05
4	1.084E+06	1.092E+06	7.461E+05	7.515E+05	4.267E+05	4.299E+05	2.361E+05	2.379E+05	1.195E+05	1.204E+05	7.297E+04	7.354E+04
6	2.144E+05	2.164E+05	1.475E+05	1.490E+05	8.437E+04	8.522E+04	4.668E+04	4.716E+04	2.362E+04	2.387E+04	1.443E+04	1.458E+04
8	6.794E+04	6.872E+04	4.675E+04	4.729E+04	2.673E+04	2.705E+04	1.479E+04	1.497E+04	7.485E+03	7.578E+03	4.572E+03	4.629E+03
10	2.788E+04	2.824E+04	1.918E+04	1.943E+04	1.097E+04	1.112E+04	6.069E+03	6.152E+03	3.071E+03	3.114E+03	1.876E+03	1.902E+03
15	5.542E+03	5.622E+03	3.813E+03	3.868E+03	2.181E+03	2.212E+03	1.207E+03	1.224E+03	6.106E+02	6.192E+02	3.729E+02	3.782E+02
20	1.769E+03	1.791E+03	1.217E+03	1.232E+03	6.962E+02	7.041E+02	3.852E+02	3.893E+02	1.949E+02	1.969E+02	1.191E+02	1.202E+02
30	3.585E+02	3.583E+02	2.467E+02	2.459E+02	1.411E+02	1.402E+02	7.805E+01	7.739E+01	3.949E+01	3.908E+01	2.412E+01	2.385E+01
45	7.501E+01	7.175E+01	5.161E+01	4.903E+01	2.951E+01	2.778E+01	1.633E+01	1.525E+01	8.263E+00	7.673E+00	5.047E+00	4.673E+00
60	2.574E+01	2.291E+01	1.771E+01	1.554E+01	1.013E+01	8.750E+00	5.603E+00	4.748E+00	2.836E+00	2.372E+00	1.732E+00	1.440E+00
75	1.171E+01	9.436E+00	8.060E+00	6.333E+00	4.609E+00	3.501E+00	2.550E+00	1.882E+00	1.290E+00	9.307E+01	7.882E+01	5.622E+01
90	6.435E+00	4.570E+00	4.428E+00	3.021E+00	2.532E+00	1.635E+00	1.401E+00	8.623E+01	7.089E+01	4.196E+01	4.330E+01	2.515E+01
120	2.860E+00	1.481E+00	1.968E+00	9.327E+01	1.125E+00	4.689E+01	6.226E+01	2.301E+01	3.151E+01	1.048E+01	1.924E+01	6.071E+02
150	1.848E+00	6.883E+01	1.272E+00	4.029E+01	7.271E+01	1.775E+01	4.023E+01	7.417E+02	2.036E+01	2.801E+02	1.243E+01	1.440E+02
179	1.609E+00	5.127E+01	1.107E+00	2.864E+01	6.331E+01	1.142E+01	3.503E+01	4.058E+02	1.772E+01	1.160E+02	1.083E+01	4.548E+03
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	9.157E+06	9.181E+06	5.453E+06	5.468E+06	3.623E+06	3.632E+06	1.935E+06	1.940E+06	9.835E+05	9.861E+05	4.505E+05	4.517E+05
2	5.724E+05	5.750E+05	3.409E+05	3.424E+05	2.265E+05	2.275E+05	1.209E+05	1.215E+05	6.148E+04	6.176E+04	2.816E+04	2.829E+04
3	1.131E+05	1.138E+05	6.735E+04	6.778E+04	4.474E+04	4.503E+04	2.390E+04	2.405E+04	1.215E+04	1.222E+04	5.564E+03	5.599E+03
4	3.580E+04	3.608E+04	2.132E+04	2.149E+04	1.416E+04	1.427E+04	7.563E+03	7.624E+03	3.845E+03	3.875E+03	1.761E+03	1.775E+03
6	7.078E+03	7.153E+03	4.215E+03	4.260E+03	2.810E+03	2.830E+03	1.496E+03	1.512E+03	7.602E+02	7.683E+02	3.482E+02	3.519E+02
8	2.243E+03	2.271E+03	1.336E+03	1.353E+03	8.873E+02	8.946E+02	4.739E+02	4.799E+02	2.409E+02	2.439E+02	1.133E+02	1.117E+02
10	9.203E+02	9.331E+02	5.481E+02	5.557E+02	3.641E+02	3.692E+02	1.945E+02	1.972E+02	9.884E+01	1.002E+02	4.527E+01	4.591E+01
15	1.829E+02	1.855E+02	1.090E+02	1.105E+02	7.238E+01	7.340E+01	3.866E+01	3.920E+01	1.965E+01	1.992E+01	9.000E+00	9.126E+00
20	5.840E+01	5.897E+01	3.478E+01	3.512E+01	2.311E+01	2.333E+01	1.234E+01	1.246E+01	6.273E+00	6.332E+00	2.873E+00	2.900E+00
30	1.183E+01	1.169E+01	7.048E+00	6.959E+00	4.682E+00	4.622E+00	2.500E+00	2.468E+00	1.271E+00	1.254E+00	5.822E+00	5.745E+01
45	2.476E+00	2.287E+00	1.475E+00	1.360E+00	9.796E+01	9.032E+01	5.232E+01	4.821E+01	2.659E+01	2.450E+01	1.218E+01	1.122E+01
60	8.498E+01	7.027E+01	5.060E+01	4.176E+01	3.361E+01	2.771E+01	1.795E+01	1.478E+01	9.125E+02	7.510E+02	4.180E+02	3.439E+02
75	3.866E+01	2.731E+01	2.303E+01	1.620E+01	1.530E+01	1.074E+01	8.170E+02	5.725E+02	4.153E+02	2.907E+02	1.902E+02	1.331E+02
90	2.124E+01	1.214E+01	1.265E+01	7.177E+02	8.404E+02	4.751E+02	4.488E+02	2.529E+02	2.281E+02	1.283E+02	1.045E+02	5.870E+03
120	9.440E+02	2.837E+02	5.622E+02	1.655E+02	3.735E+02	1.087E+02	1.995E+02	5.749E+03	1.014E+02	2.905E+03	4.644E+03	1.326E+03
150	6.100E+02	5.906E+02	3.633E+02	3.232E+03	2.413E+02	2.051E+03	1.289E+02	1.047E+03	6.552E+03	5.185E+04	3.001E+03	2.339E+04
179	5.311E+02	1.143E+03	3.163E+02	4.136E+04	2.101E+02	1.847E+04	1.122E+02	5.356E+05	5.704E+03	1.415E+05	2.613E+03	3.099E+06
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	2.574E+05	2.581E+05	1.162E+05	1.165E+05	6.592E+04	6.609E+04	4.239E+04	4.251E+04	2.175E+04	2.181E+04	1.071E+04	1.073E+04
2	1.609E+04	1.616E+04	7.266E+03	7.299E+03	4.120E+03	4.139E+03	2.650E+03	2.662E+03	1.360E+03	1.366E+03	6.692E+02	6.722E+02
3	3.179E+03	3.199E+03	1.436E+03	1.445E+03	8.141E+02	8.193E+02	5.236E+02	5.269E+02	2.687E+02	2.704E+02	1.322E+02	1.331E+02
4	1.006E+03	1.014E+03	4.544E+02	4.580E+02	2.577E+02	2.597E+02	1.657E+02	1.671E+02	8.504E+01	8.572E+01	4.185E+01	4.218E+01
6	1.989E+02	2.011E+02	8.984E+01	9.081E+01	5.095E+01	5.150E+01	3.277E+01	3.312E+01	1.681E+01	1.700E+01	8.275E+00	8.363E+00
8	6.304E+01	6.384E+01	2.847E+01	2.885E+01	1.614E+01	1.635E+01	1.038E+01	1.052E+01	5.328E+00	5.396E+00	2.622E+00	2.655E+00
10	2.587E+01	2.623E+01	1.168E+01	1.185E+01	6.625E+00	6.718E+00	4.261E+00	4.320E+00	2.186E+00	2.217E+00	1.076E+00	1.091E+00
15	5.142E+00	5.214E+00	2.322E+00	2.355E+00	1.317E+00	1.335E+00	8.470E+01	8.589E+01	4.346E+01	4.407E+01	2.139E+01	2.169E+01
20	1.642E+00	1.657E+00	7.413E+01	7.484E+01	4.204E+01	4.245E+01	2.704E+01	2.730E+01	1.387E+01	1.401E+01	6.828E+02	6.892E+02
30	3.326E+01	3.282E+01	1.502E+01	1.482E+01	8.197E+02	8.406E+02	5.479E+02	5.407E+02	2.811E+02	2.774E+02	1.383E+02	1.365E+02
45	6.959E+02	6.410E+02	3.143E+02	2.895E+02	1.782E+02	1.642E+02	1.146E+02	1.056E+02	5.882E+03	5.418E+03	2.895E+03	2.666E+03
60	2.388E+02	1.964E+02	1.078E+02	8.871E+03	6.116E+03	5.030E+03	3.934E+03	3.235E+03	2.018E+03	1.660E+03	9.933E+04	8.170E+04
75	1.087E+02	7.601E+02	4.908E+03	3.432E+03	2.783E+03	1.946E+03	1.790E+03	1.252E+03	9.186E+04	6.423E+04	4.520E+04	3.161E+04
90	5.978E+03	3.353E+03	2.696E+03	1.514E+03	1.529E+03	8.583E+04	9.834E+04	5.520E+04	5.046E+04	2.832E+04	2.483E+04	1.394E+04
120	2.653E+03	7.568E+04	1.198E+03	3.415E+04	6.796E+04	1.936E+04	4.371E+04	1.245E+04	2.243E+04	6.387E+05	1.104E+04	3.143E+05
150	1.715E+03	1.329E+04	7.743E+04	5.976E+05	4.91E+04	3.384E+05	2.824E+04	2.175E+05	1.449E+04	1.115E+05	7.132E+05	5.487E+06
179	1.493E+03	1.069E+06	6.742E+04	2.505E+07	3.823E+04	9.509E+08	2.459E+04	4.703E+08	1.262E+04	1.777E+08	6.209E+05	7.068E+09

MG (12)

(BARNES/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	3.224E+13	3.226E+13	1.439E+13	1.435E+13	8.075E+12	8.080E+12	3.596E+12	3.598E+12	2.027E+12	2.028E+12	1.300E+12	1.300E+12
2	2.015E+12	2.016E+12	8.965E+11	8.971E+11	5.048E+11	5.051E+11	2.248E+11	2.249E+11	1.267E+11	1.268E+11	6.123E+10	6.130E+10
3	3.982E+11	3.984E+11	1.771E+11	1.773E+11	9.973E+10	9.980E+10	4.441E+10	4.445E+10	2.503E+10	2.505E+10	1.605E+10	1.607E+10
4	1.260E+11	1.261E+11	5.607E+10	5.611E+10	3.157E+10	3.159E+10	1.406E+10	1.407E+10	7.923E+09	7.930E+09	5.080E+09	5.086E+09
6	2.492E+10	2.494E+10	1.109E+10	1.109E+10	6.242E+09	6.247E+09	2.780E+09	2.782E+09	1.567E+09	1.568E+09	1.005E+09	1.006E+09
8	7.894E+09	7.902E+09	3.513E+09	3.516E+09	1.976E+09	1.980E+09	8.807E+08	8.817E+08	4.964E+08	4.971E+08	3.183E+08	3.189E+08
10	3.240E+09	3.243E+09	1.441E+09	1.443E+09	8.116E+08	8.123E+08	3.614E+08	3.619E+08	2.037E+08	2.040E+08	1.306E+08	1.309E+08
15	6.441E+08	6.446E+08	2.865E+08	2.868E+08	1.613E+08	1.615E+08	7.184E+07	7.199E+07	4.049E+07	4.060E+07	2.596E+07	2.605E+07
20	2.056E+08	2.058E+08	9.147E+07	9.157E+07	5.150E+07	5.149E+07	2.293E+07	2.300E+07	1.293E+07	1.298E+07	8.289E+06	8.328E+06
30	4.166E+07	4.170E+07	1.853E+07	1.857E+07	1.044E+07	1.047E+07	4.647E+06	4.671E+06	2.619E+06	2.636E+06	1.679E+06	1.692E+06
45	8.717E+06	8.740E+06	3.878E+06	3.896E+06	2.184E+06	2.197E+06	9.723E+05	9.803E+05	5.480E+05	5.533E+05	3.514E+05	3.551E+05
60	2.994E+06	3.006E+06	1.331E+06	1.340E+06	7.493E+05	7.566E+05	3.337E+05	3.371E+05	1.880E+05	1.902E+05	1.206E+05	1.220E+05
75	1.361E+06	1.371E+06	6.056E+05	6.110E+05	3.410E+05	3.444E+05	1.518E+05	1.536E+05	8.558E+04	8.659E+04	5.487E+04	5.552E+04
90	7.478E+05	7.546E+05	3.327E+05	3.362E+05	1.873E+05	1.894E+05	8.341E+04	8.438E+04	4.701E+04	4.754E+04	3.015E+04	3.046E+04
120	3.324E+05	3.369E+05	1.479E+05	1.499E+05	8.325E+04	8.443E+04	3.707E+04	3.748E+04	2.089E+04	2.108E+04	1.340E+04	1.348E+04
150	2.148E+05	2.185E+05	9.554E+04	9.707E+04	5.379E+04	5.456E+04	2.396E+04	2.421E+04	1.350E+04	1.359E+04	8.657E+03	8.682E+03
179	1.870E+05	1.906E+05	8.318E+04	8.460E+04	4.684E+04	4.753E+04	2.088E+04	2.107E+04	1.175E+04	1.182E+04	7.537E+03	7.550E+03
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	6.656E+11	6.661E+11	3.280E+11	3.283E+11	1.472E+11	1.473E+11	8.355E+10	8.364E+10	3.782E+10	3.786E+10	2.165E+10	2.168E+10
2	4.161E+10	4.164E+10	2.050E+10	2.053E+10	9.199E+09	9.211E+09	5.223E+09	5.231E+09	2.364E+09	2.368E+09	1.353E+09	1.356E+09
3	8.220E+09	8.230E+09	4.051E+09	4.057E+09	1.818E+09	1.821E+09	1.032E+09	1.034E+09	4.671E+08	4.683E+08	2.674E+08	2.682E+08
4	2.602E+09	2.605E+09	1.282E+09	1.284E+09	5.753E+08	5.765E+08	3.266E+08	3.275E+08	1.478E+08	1.483E+08	8.464E+07	8.495E+07
6	5.145E+08	5.154E+08	2.535E+08	2.542E+08	1.138E+08	1.141E+08	6.459E+07	6.482E+07	2.923E+07	2.936E+07	1.674E+07	1.682E+07
8	1.630E+08	1.634E+08	8.034E+07	8.059E+07	3.604E+07	3.619E+07	2.046E+07	2.056E+07	9.262E+06	9.317E+06	5.303E+06	5.338E+06
10	6.689E+07	6.709E+07	3.297E+07	3.309E+07	1.479E+07	1.486E+07	8.397E+06	8.447E+06	3.801E+06	3.828E+06	2.176E+06	2.194E+06
15	1.339E+07	1.336E+07	6.553E+06	6.591E+06	2.940E+06	2.962E+06	1.669E+06	1.683E+06	7.556E+05	7.631E+05	4.326E+05	4.374E+05
20	4.245E+06	4.271E+06	2.092E+06	2.108E+06	9.386E+05	9.474E+05	5.329E+05	5.385E+05	2.412E+05	2.441E+05	1.381E+05	1.399E+05
30	8.602E+05	8.680E+05	4.239E+05	4.285E+05	1.902E+05	1.956E+05	1.080E+05	1.064E+05	4.887E+04	4.959E+04	2.788E+04	2.841E+04
45	1.800E+05	1.821E+05	8.869E+04	8.986E+04	3.979E+04	4.034E+04	2.259E+04	2.291E+04	1.023E+04	1.036E+04	5.855E+03	5.922E+03
60	6.176E+04	6.254E+04	3.044E+04	3.082E+04	1.365E+04	1.381E+04	7.753E+03	7.828E+03	3.509E+03	3.528E+03	2.009E+03	2.011E+03
75	2.811E+04	2.842E+04	1.385E+04	1.398E+04	6.214E+03	6.251E+03	3.528E+03	3.535E+03	1.597E+03	1.586E+03	9.143E+02	9.000E+02
90	1.544E+04	1.557E+04	7.609E+03	7.646E+03	3.414E+03	3.408E+03	1.938E+03	1.922E+03	8.772E+02	8.577E+02	5.023E+02	4.843E+02
120	6.862E+03	6.871E+03	3.382E+03	3.360E+03	1.517E+03	1.488E+03	8.614E+02	8.341E+02	3.899E+02	3.681E+02	2.232E+02	2.056E+02
150	4.434E+03	4.414E+03	2.185E+03	2.151E+03	9.804E+02	9.479E+02	5.566E+02	5.288E+02	2.519E+02	2.312E+02	1.442E+02	1.280E+02
179	3.860E+03	3.834E+03	1.902E+03	1.866E+03	8.536E+02	8.268E+02	4.846E+02	4.570E+02	2.193E+02	1.991E+02	1.254E+02	1.099E+02
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	4.110E+10	4.112E+10	7.435E+09	7.447E+09	3.817E+09	3.823E+09	1.819E+09	1.823E+09	1.080E+09	1.092E+09	5.392E+08	5.394E+08
2	8.813E+08	8.833E+08	4.648E+08	4.660E+08	2.386E+08	2.393E+08	1.137E+08	1.141E+08	6.809E+07	6.833E+07	3.364E+07	3.377E+07
3	1.741E+08	1.747E+08	9.183E+07	9.216E+07	4.714E+07	4.743E+07	2.247E+07	2.258E+07	1.345E+07	1.352E+07	6.647E+06	6.684E+06
4	5.511E+07	5.534E+07	2.907E+07	2.920E+07	1.492E+07	1.500E+07	7.113E+06	7.155E+06	4.258E+06	4.286E+06	2.104E+06	2.119E+06
6	1.090E+07	1.096E+07	5.747E+06	5.785E+06	2.950E+06	2.972E+06	1.406E+06	1.418E+06	8.419E+05	8.495E+05	4.160E+05	4.201E+05
8	3.453E+06	3.478E+06	1.821E+06	1.836E+06	9.348E+05	9.445E+05	4.456E+05	4.503E+05	2.668E+05	2.698E+05	1.318E+05	1.334E+05
10	1.411E+06	1.429E+06	7.473E+05	7.546E+05	3.836E+05	3.878E+05	1.829E+05	1.851E+05	1.095E+05	1.109E+05	5.409E+04	5.484E+04
15	2.817E+05	2.850E+05	1.485E+05	1.505E+05	7.625E+04	7.743E+04	3.635E+04	3.691E+04	1.766E+04	2.211E+04	1.075E+04	1.093E+04
20	8.992E+04	9.118E+04	4.742E+04	4.813E+04	2.434E+04	2.473E+04	1.160E+04	1.179E+04	6.947E+03	7.661E+03	3.432E+03	3.488E+03
30	1.822E+04	1.850E+04	9.609E+03	9.754E+03	4.932E+03	5.002E+03	2.351E+03	2.380E+03	1.408E+03	1.422E+03	6.955E+02	7.000E+02
45	3.812E+03	3.849E+03	2.010E+03	2.022E+03	1.032E+03	1.032E+03	4.920E+02	4.875E+02	2.945E+02	2.899E+02	1.455E+02	1.413E+02
60	1.308E+03	1.303E+03	6.899E+02	6.805E+02	3.541E+02	3.446E+02	1.688E+02	1.610E+02	1.011E+02	9.446E+01	4.993E+01	4.561E+01
75	5.953E+02	5.808E+02	3.140E+02	3.011E+02	1.612E+02	1.509E+02	7.683E+01	6.947E+01	4.599E+01	4.039E+01	2.272E+01	1.907E+01
90	3.270E+02	3.110E+02	1.725E+02	1.598E+02	8.853E+01	7.909E+01	4.221E+01	3.575E+01	2.527E+01	2.046E+01	1.268E+01	9.418E+00
120	1.453E+02	1.307E+02	7.665E+01	6.580E+01	3.935E+01	3.145E+01	1.876E+01	1.369E+01	1.123E+01	7.527E+00	5.548E+00	3.230E+00
150	9.392E+01	8.065E+01	4.953E+01	3.991E+01	2.543E+01	1.871E+01	1.212E+01	7.761E+00	7.256E+00	4.092E+00	3.585E+00	1.619E+00
179	8.177E+01	6.898E+01	4.312E+01	3.390E+01	2.214E+01	1.573E+01	1.055E+01	6.406E+00	6.318E+00	3.314E+00	1.258E+00	

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	3.301E+08	3.309E+08	2.271E+08	2.277E+08	1.299E+08	1.302E+08	7.187E+07	7.206E+07	3.637E+07	3.647E+07	2.221F+07	2.228E+07
2	2.064E+07	2.072E+07	1.420E+07	1.426E+07	8.120E+06	8.157E+06	4.493E+06	4.514E+06	2.273E+06	2.284E+06	1.389F+06	1.395E+06
3	4.077E+06	4.102E+06	2.805E+06	2.823E+06	1.604E+06	1.615E+06	8.876E+05	8.935E+05	4.492E+05	4.522E+05	2.744E+05	2.762E+05
4	1.291E+06	1.300E+06	8.880E+05	8.949E+05	5.078E+05	5.119E+05	2.810E+05	2.833E+05	1.422E+05	1.434F+05	8.684F+04	8.759E+04
6	2.552E+05	2.578E+05	1.756E+05	1.775E+05	1.004E+05	1.015E+05	5.555E+04	5.619E+04	2.811E+04	2.844F+04	1.717F+04	1.737E+04
8	8.086E+04	8.188E+04	5.563E+04	5.636E+04	3.182E+04	3.225E+04	1.760E+04	1.785E+04	8.908E+03	9.032F+03	5.441F+03	5.518E+03
10	3.318E+04	3.366E+04	2.283E+04	2.317E+04	1.306E+04	1.325E+04	7.223E+03	7.335E+03	3.655E+03	3.713E+03	2.233F+03	2.268E+03
15	6.598E+03	6.706E+03	4.538E+03	4.615E+03	2.595E+03	2.639E+03	1.436E+03	1.460E+03	7.266E+02	7.399F+02	4.438F+02	4.514E+02
20	2.106E+03	2.139E+03	1.449E+03	1.471E+03	8.285E+02	8.408E+02	4.584E+02	4.650E+02	2.320E+02	2.352E+02	1.417E+02	1.436E+02
30	4.267E+02	4.283E+02	2.936E+02	2.941E+02	1.679E+02	1.677E+02	9.288E+01	9.256E+01	4.700E+01	4.675F+01	2.871F+01	2.853E+01
45	8.927E+01	8.591E+01	6.142E+01	5.872E+01	3.512E+01	3.329E+01	1.943E+01	1.828E+01	9.834E+00	9.197F+00	6.007F+00	5.602E+00
60	3.063E+01	2.746E+01	2.108E+01	1.864E+01	1.205E+01	1.049E+01	6.669E+00	5.698E+00	3.375E+00	2.847F+00	2.061F+00	1.729E+00
75	1.394E+01	1.132E+01	9.592E+00	7.600E+00	5.485E+00	4.204E+00	3.035E+00	2.261E+00	1.536E+00	1.119F+00	4.380F+00	1.759E+00
90	7.658E+00	5.483E+00	5.269E+00	3.626E+00	3.013E+00	1.944E+00	1.667E+00	1.037E+00	8.436E+01	5.048E+01	5.153E+01	3.027E+01
120	3.404E+00	1.775E+00	2.342E+00	1.119E+00	1.339E+00	5.610E+01	7.410E+01	2.766E+01	3.750F+01	1.761F+01	2.290F+01	7.311E+02
150	2.199E+00	8.227E-01	1.513E+00	4.818E-01	8.654E-01	2.125E-01	4.788E-01	8.885E-02	2.423E-01	3.362F-02	1.883F-01	1.731E-02
179	1.915E+00	6.117E-01	1.317E+00	3.417E-01	7.534E-01	1.342E-01	4.168E-01	4.841E-02	2.109E-01	1.384F-02	1.288F-01	5.428E-03
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	1.090E+07	1.093E+07	6.490E+06	6.508E+06	4.311E+06	4.325E+06	2.303E+06	2.309E+06	1.170E+06	1.174F+06	5.361F+05	5.376E+05
2	6.818E+05	6.845E+05	4.057E+05	4.077E+05	2.695E+05	2.708E+05	1.439E+05	1.446E+05	7.315E+04	7.352F+04	3.351F+04	3.368E+04
3	1.346E+05	1.355E+05	8.016E+04	8.071E+04	5.325E+04	5.362E+04	2.844E+04	2.864E+04	1.446E+04	1.456F+04	6.621F+03	6.667E+03
4	4.260E+04	4.297E+04	2.537E+04	2.559E+04	1.685E+04	1.700E+04	9.001E+03	9.080E+03	4.575E+03	4.616E+03	2.096F+03	2.114E+03
6	8.423E+03	8.523E+03	5.017E+03	5.076E+03	3.333E+03	3.372E+03	1.780E+03	1.801E+03	9.047E+02	9.155F+02	4.144F+02	4.193E+02
8	2.669E+03	2.707E+03	1.590E+03	1.612E+03	1.056E+03	1.071E+03	5.639E+02	5.720E+02	2.867E+02	2.908E+02	1.313F+02	1.332E+02
10	1.095E+03	1.113E+03	6.523E+02	6.627E+02	4.333E+02	4.402E+02	2.314E+02	2.351E+02	1.176E+02	1.195E+02	5.388F+01	5.474E+01
15	2.177E+02	2.214E+02	1.297E+02	1.319E+02	8.814E+01	8.740E+01	4.600E+01	4.678E+01	2.338E+01	2.378F+01	1.071E+01	1.089E+01
20	6.950E+01	7.044E+01	4.139E+01	4.195E+01	2.750E+01	2.787E+01	1.469E+01	1.488E+01	7.465E+00	7.564F+00	3.419F+00	3.465E+00
30	1.408E+01	1.398E+01	8.387E+00	8.326E+00	5.572E+00	5.510E+00	2.976E+00	2.953E+00	1.513E+00	1.501F+00	6.928F+00	6.874E+00
45	2.947E+00	2.741E+00	1.755E+00	1.631E+00	1.166E+00	1.083E+00	6.226E-01	5.781E-01	3.165E-01	2.938F-01	1.458F-01	1.345E-01
60	1.011E+00	8.439E-01	6.022E-01	5.015E-01	4.000E-01	3.328E-01	2.136E-01	1.775E-01	1.086E-01	9.019E-02	4.974F-02	4.130E-02
75	4.601E-01	3.284E-01	2.740E-01	1.948E-01	1.821E-01	1.292E-01	9.723E-02	8.885E-02	4.942E-02	3.496F-02	2.644F-02	1.600E-02
90	2.528E-01	1.461E-01	1.505E-01	8.639E-02	1.000E-01	5.719E-02	5.341E-02	3.044E-02	2.715E-02	1.545F-02	1.244E-02	7.067E-03
120	1.123E-01	3.418E-02	6.691E-02	1.994E-02	4.445E-02	1.311E-02	2.374E-02	6.930E-03	1.207E-02	3.503F-03	5.527F-03	1.599E-03
150	7.259E-02	7.110E-03	4.324E-02	3.895E-03	2.872E-02	2.473E-03	1.534E-02	1.263E-03	7.797E-03	6.255F-04	3.571F-03	2.822E-04
179	6.320E-02	1.364E-03	3.764E-02	4.435E-04	2.501E-02	2.204E-04	1.335E-02	6.391E-05	6.789E-03	1.688F-05	3.109F-03	3.701E-06
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	3.063E+05	3.072E+05	1.383E+05	1.387E+05	7.844E+04	7.847E+04	5.045E+04	5.060E+04	2.589E+04	2.594F+04	1.274F+04	1.278E+04
2	1.915E+04	1.924E+04	8.647E+03	8.690E+03	4.904E+03	4.928E+03	3.154E+03	3.169E+03	1.818E+03	1.828F+03	7.944F+02	8.003E+02
3	3.783E+03	3.809E+03	1.708E+03	1.729E+03	9.688E+02	9.750E+02	6.231E+02	6.275E+02	3.197E+02	3.228F+02	1.573F+02	1.584E+02
4	1.197E+03	1.208E+03	5.407E+02	5.455E+02	3.067E+02	3.094E+02	1.972E+02	1.990E+02	1.012E+02	1.021F+02	4.980F+01	5.024E+01
6	2.368E+02	2.396E+02	1.069E+02	1.082E+02	6.064E+01	6.136E+01	3.900E+01	3.946E+01	2.001E+01	2.025F+01	9.848F+00	9.965E+00
8	7.502E+01	7.609E+01	3.388E+01	3.436E+01	1.921E+01	1.949E+01	1.236E+01	1.253E+01	6.341E+00	6.431F+00	3.120F+00	3.165E+00
10	3.078E+01	3.128E+01	1.390E+01	1.412E+01	7.884E+00	8.010E+00	4.571E+00	4.512E+00	2.662E+00	2.443F+00	1.280F+00	1.301E+00
15	6.119E+00	6.223E+00	2.764E+00	2.810E+00	1.567E+00	1.594E+00	1.008E+00	1.025E+00	5.172E-01	5.288F-01	2.545F-01	2.588E-01
20	1.954E+00	1.980E+00	8.822E-01	8.940E-01	5.003E-01	5.070E-01	3.218E-01	3.261E-01	1.851E-01	1.873F-01	8.126E-02	8.234E-02
30	3.958E-01	3.927E-01	1.788E-01	1.774E-01	1.014E-01	1.006E-01	6.520E-02	6.469E-02	3.346E-02	3.319F-02	1.846F-02	1.834E-02
45	8.282E-02	7.686E-02	3.740E-02	3.471E-02	2.121E-02	1.948E-02	1.364E-02	1.266E-02	7.000F-03	6.496F-03	3.445F-03	3.197E-03
60	2.842E-02	2.359E-02	1.283E-02	1.065E-02	7.279E-03	6.041E-03	4.681E-03	3.886E-03	2.402E-03	1.994F-03	1.182F-03	9.811E-04
75	1.293E-02	9.141E-03	5.841E-03	4.128E-03	3.312E-03	2.341E-03	2.130E-03	1.505E-03	1.093E-03	7.724F-04	5.380F-04	3.801E-04
90	7.105E-03	4.036E-03	3.209E-03	1.822E-03	1.820E-03	1.033E-03	1.170E-03	6.640E-04	6.005E-04	3.410F-04	2.955F-04	1.678E-04
120	3.158E-03	9.125E-04	1.426E-03	4.117E-04	8.087E-04	2.334E-04	5.202E-04	1.501E-04	2.669E-04	7.702F-05	1.313F-04	3.790E-05
150	2.049E-03	1.604E-04	9.215E-04	7.212E-05	5.226E-04	4.084E-05	3.361E-04	2.625E-05	1.725E-04	1.344F-05	8.487F-05	6.622F-06
179	1.777E-03	1.277E-06	8.023E-04	2.997E-07	4.550E-04	1.139E-07	2.926E-04	5.641E-08	1.502E-04	2.135F-08	7.389F-05	8.504E-09

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	3.783E+13	3.786E+13	1.683E+13	1.684E+13	9.477E+12	9.483E+12	4.320E+12	4.223E+12	2.376E+12	2.380E+12	1.525E+12	1.526E+12
2	2.365E+12	2.366E+12	1.052E+12	1.053E+12	5.924E+11	5.928E+11	2.638E+11	2.640E+11	1.487E+11	1.488E+11	9.534E+10	9.541E+10
3	4.673E+11	4.676E+11	2.079E+11	2.080E+11	1.170E+11	1.171E+11	5.212E+10	5.216E+10	2.928E+10	2.940E+10	1.884E+10	1.885E+10
4	1.479E+11	1.480E+11	6.580E+10	6.585E+10	3.705E+10	3.708E+10	1.650E+10	1.651E+10	9.298E+09	9.307E+09	5.962E+09	5.969E+09
6	2.924E+10	2.927E+10	1.301E+10	1.302E+10	7.320E+09	7.342E+09	3.262E+09	3.265E+09	1.838E+09	1.841E+09	1.179E+09	1.181E+09
8	9.266E+09	9.274E+09	4.122E+09	4.126E+09	2.321E+09	2.333E+09	1.034E+09	1.035E+09	5.825E+08	5.833E+08	3.735E+08	3.742E+08
10	3.802E+09	3.806E+09	1.692E+09	1.693E+09	9.525E+08	9.544E+08	4.241E+08	4.247E+08	2.390E+08	2.394E+08	1.533E+08	1.536E+08
15	7.559E+08	7.566E+08	3.363E+08	3.366E+08	1.893E+08	1.895E+08	8.043E+07	8.047E+07	4.752E+07	4.764E+07	3.047E+07	3.057E+07
20	2.413E+08	2.415E+08	1.074E+08	1.075E+08	6.044E+07	6.053E+07	2.692E+07	2.699E+07	1.517E+07	1.523E+07	9.728E+06	9.774E+06
30	4.890E+07	4.893E+07	2.175E+07	2.179E+07	1.225E+07	1.228E+07	5.454E+06	5.481E+06	3.074E+06	3.094E+06	1.971E+06	1.987E+06
45	1.023E+07	1.025E+07	4.551E+06	4.571E+06	2.563E+06	2.578E+06	1.141E+06	1.151E+06	6.431E+05	6.498E+05	4.124E+05	4.172E+05
60	3.511E+06	3.526E+06	1.562E+06	1.573E+06	8.793E+05	8.872E+05	3.916E+05	3.960E+05	2.207E+05	2.235E+05	1.415E+05	1.434E+05
75	1.598E+06	1.609E+06	7.107E+05	7.175E+05	4.002E+05	4.046E+05	1.782E+05	1.805E+05	1.004E+05	1.018E+05	6.440E+04	6.529E+04
90	8.776E+05	8.862E+05	3.904E+05	3.950E+05	2.198E+05	2.228E+05	9.789E+04	9.922E+04	5.517E+04	5.591E+04	3.538E+04	3.584E+04
120	3.901E+05	3.962E+05	1.735E+05	1.763E+05	9.770E+04	9.953E+04	4.351E+04	4.412E+04	2.452E+04	2.481E+04	1.572E+04	1.587E+04
150	2.520E+05	2.573E+05	1.121E+05	1.143E+05	6.313E+04	6.427E+04	2.811E+04	2.852E+04	1.584E+04	1.601E+04	1.016E+04	1.023E+04
179	2.194E+05	2.245E+05	9.762E+04	9.968E+04	5.497E+04	5.601E+04	2.448E+04	2.483E+04	1.380E+04	1.393E+04	8.846E+03	8.895E+03
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	7.811E+11	7.817E+11	3.850E+11	3.853E+11	1.727E+11	1.729E+11	9.806E+10	9.816E+10	4.438E+10	4.444E+10	2.541E+10	2.545E+10
2	4.883E+10	4.887E+10	2.406E+10	2.409E+10	1.080E+10	1.081E+10	6.130E+09	6.139E+09	2.774E+09	2.780E+09	1.588E+09	1.592E+09
3	9.348E+09	9.358E+09	4.754E+09	4.761E+09	2.133E+09	2.137E+09	1.211E+09	1.214E+09	5.482E+08	5.496E+08	3.139E+08	3.148E+08
4	3.054E+09	3.058E+09	1.505E+09	1.507E+09	6.752E+08	6.767E+08	3.833E+08	3.844E+08	1.735E+08	1.741E+08	9.954E+07	9.972E+07
5	6.038E+08	6.049E+08	2.976E+08	2.983E+08	1.335E+08	1.339E+08	7.580E+07	7.609E+07	3.431E+07	3.447E+07	1.944E+07	1.975E+07
8	1.913E+08	1.918E+08	9.428E+07	9.458E+07	4.230E+07	4.248E+07	2.402E+07	2.414E+07	1.087E+07	1.094E+07	6.224E+06	6.268E+06
10	7.851E+07	7.874E+07	3.869E+07	3.884E+07	1.736E+07	1.745E+07	9.855E+06	9.918E+06	4.461E+06	4.495E+06	2.554E+06	2.576E+06
15	1.561E+07	1.568E+07	7.691E+06	7.737E+06	3.451E+06	3.477E+06	1.959E+06	1.977E+06	8.867E+05	8.963E+05	5.077E+05	5.138E+05
20	4.982E+06	5.014E+06	2.455E+06	2.475E+06	1.102E+06	1.113E+06	6.254E+05	6.326E+05	2.831E+05	2.869E+05	1.621E+05	1.645E+05
30	1.010E+06	1.019E+06	4.975E+05	5.033E+05	2.232E+05	2.263E+05	1.267E+05	1.286E+05	5.736E+04	5.831E+04	3.284E+04	3.341E+04
45	2.112E+05	2.140E+05	1.041E+05	1.056E+05	4.670E+04	4.745E+04	2.652E+04	2.695E+04	1.200E+04	1.219E+04	6.871E+03	6.972E+03
60	7.248E+04	7.353E+04	3.572E+04	3.625E+04	1.603E+04	1.625E+04	9.099E+03	9.214E+03	4.118E+03	4.155E+03	2.358E+03	2.368E+03
75	3.298E+04	3.343E+04	1.626E+04	1.646E+04	7.293E+03	7.359E+03	4.141E+03	4.162E+03	1.874E+03	1.884E+03	1.073E+03	1.081E+03
90	1.812E+04	1.832E+04	8.930E+03	9.001E+03	4.006E+03	4.013E+03	2.275E+03	2.263E+03	1.030E+03	1.010E+03	5.895E+02	5.707E+02
120	8.053E+03	8.091E+03	3.969E+03	3.957E+03	1.781E+03	1.763E+03	1.011E+03	9.825E+02	4.576E+02	4.336E+02	2.620E+02	2.422E+02
150	5.204E+03	5.199E+03	2.565E+03	2.534E+03	1.151E+03	1.116E+03	6.533E+02	6.227E+02	2.957E+02	2.773E+02	1.693E+02	1.507E+02
179	4.531E+03	4.517E+03	2.233E+03	2.199E+03	1.002E+03	9.867E+02	5.688E+02	5.382E+02	2.574E+02	2.345E+02	1.474E+02	1.293E+02
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	1.655E+10	1.657E+10	8.726E+09	8.740E+09	4.479E+09	4.487E+09	2.135E+09	2.140E+09	1.278E+09	1.281E+09	6.316E+08	6.332E+08
2	1.034E+09	1.037E+09	5.455E+08	5.469E+08	2.800E+08	2.809E+08	1.335E+08	1.340E+08	7.991E+07	8.022E+07	3.948E+07	3.965E+07
3	2.044E+08	2.050E+08	1.078E+08	1.082E+08	5.532E+07	5.556E+07	2.637E+07	2.651E+07	1.579E+07	1.587E+07	7.804E+06	7.848E+06
4	6.469E+07	6.483E+07	3.411E+07	3.428E+07	1.751E+07	1.761E+07	8.347E+06	8.401E+06	4.997E+06	5.032E+06	2.469E+06	2.488E+06
6	1.279E+07	1.287E+07	6.745E+06	6.792E+06	3.462E+06	3.490E+06	1.651E+06	1.666E+06	9.881E+05	9.974E+05	4.882E+05	4.935E+05
8	4.053E+06	4.084E+06	2.137E+06	2.156E+06	1.097E+06	1.108E+06	5.230E+05	5.290E+05	3.131E+05	3.169E+05	1.547E+05	1.568E+05
10	1.663E+06	1.679E+06	8.177E+05	8.864E+05	4.502E+05	4.566E+05	2.146E+05	2.175E+05	1.285E+05	1.303E+05	6.388E+04	6.446E+04
15	3.304E+05	3.349E+05	1.743E+05	1.768E+05	8.949E+04	9.060E+04	4.266E+04	4.339E+04	2.554E+04	2.600E+04	1.282E+04	1.286E+04
20	1.055E+05	1.072E+05	5.565E+04	5.659E+04	2.857E+04	2.908E+04	1.362E+04	1.388E+04	8.153E+03	8.309E+03	4.028E+03	4.105E+03
30	2.138E+04	2.176E+04	1.128E+04	1.148E+04	5.789E+03	5.889E+03	2.760E+03	2.803E+03	1.652E+03	1.675E+03	8.162E+02	8.251E+02
45	4.478E+03	4.533E+03	2.359E+03	2.382E+03	1.211E+03	1.216E+03	5.774E+02	5.749E+02	3.457E+02	3.416E+02	1.708E+02	1.668E+02
60	1.535E+03	1.535E+03	8.096E+02	8.022E+02	4.156E+02	4.044E+02	1.981E+02	1.900E+02	1.186E+02	1.119E+02	5.800E+01	5.390E+01
75	6.987E+02	6.846E+02	3.685E+02	3.550E+02	1.891E+02	1.780E+02	9.017E+01	8.202E+01	5.398E+01	4.772E+01	2.667E+01	2.255E+01
90	3.838E+02	3.666E+02	2.024E+02	1.884E+02	1.039E+02	9.332E+01	4.953E+01	4.221E+01	2.465E+01	2.417E+01	1.465E+01	1.144E+01
120	1.708E+02	1.540E+02	8.996E+01	7.755E+01	4.615E+01	3.712E+01	2.201E+01	1.615E+01	1.318E+01	8.883E+00	6.512E+00	3.816E+00
150	1.102E+02	9.497E+01	5.813E+01	4.700E+01	2.988E+01	2.204E+01	1.423E+01	9.141E+00	8.516E+00	4.821E+00	4.208E+00	1.908E+00
179	9.597E+01	8.121E+01	5.061E+01	3.991E+01	2.598E+01	1.862E+01	1.239E+01	7.539E+00	7.414E+00	3.900E+00	3.663E+00	1.481E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	3.875E+08	3.885E+08	2.666E+08	2.673E+08	1.525E+08	1.559E+08	8.435E+07	8.459E+07	4.268E+07	4.281E+07	2.607E+07	2.615E+07
2	2.422E+07	2.433E+07	1.666E+07	1.674E+07	9.530E+06	9.576E+06	5.272E+06	5.299E+06	2.668E+06	2.682E+06	1.630E+06	1.638E+06
3	4.785E+06	4.816E+06	3.293E+06	3.314E+06	1.893E+06	1.896E+06	1.042E+06	1.049E+06	5.272E+05	5.310E+05	3.220E+05	3.244E+05
4	1.515E+06	1.527E+06	1.042E+06	1.051E+06	5.960E+05	6.012E+05	3.297E+05	3.327E+05	1.669E+05	1.684E+05	1.019E+05	1.029E+05
6	2.995E+05	3.029E+05	2.061E+05	2.085E+05	1.178E+05	1.193E+05	6.520E+04	6.601E+04	3.299E+04	3.361E+04	2.015E+04	2.041E+04
8	9.490E+04	9.622E+04	6.529E+04	6.623E+04	3.734E+04	3.789E+04	2.066E+04	2.097E+04	1.045E+04	1.062E+04	6.385E+03	6.485E+03
10	3.894E+04	3.957E+04	2.679E+04	2.724E+04	1.532E+04	1.568E+04	8.477E+03	8.625E+03	4.290E+03	4.368E+03	2.607E+03	2.667E+03
15	7.741E+03	7.890E+03	5.326E+03	5.430E+03	3.046E+03	3.166E+03	1.685E+03	1.719E+03	8.528E+02	8.697E+02	5.209E+02	5.312E+02
20	2.471E+03	2.518E+03	1.700E+03	1.732E+03	9.723E+02	9.962E+02	5.380E+02	5.476E+02	2.722E+02	2.770E+02	1.663E+02	1.692E+02
30	5.007E+02	5.049E+02	3.445E+02	3.468E+02	1.970E+02	1.978E+02	1.090E+02	1.092E+02	5.516E+01	5.516E+01	3.367E+01	3.366E+01
45	1.048E+02	1.015E+02	7.208E+01	6.936E+01	4.122E+01	3.933E+01	2.281E+01	2.161E+01	1.154E+01	1.087E+01	7.049E+00	6.623E+00
60	3.595E+01	3.247E+01	2.474E+01	2.204E+01	1.415E+01	1.238E+01	7.826E+00	6.744E+00	3.960E+00	3.371E+00	2.419E+00	2.047E+00
75	1.636E+01	1.339E+01	1.126E+01	8.995E+00	6.437E+00	4.979E+00	3.562E+00	2.879E+00	1.802E+00	1.326E+00	1.101E+00	8.014E+00
90	6.988E+00	6.489E+00	6.184E+00	4.294E+00	3.536E+00	2.338E+00	1.957E+00	1.229E+00	9.901E+01	5.949E+01	6.047E+01	3.542E+01
120	3.995E+00	2.678E+00	2.748E+00	1.323E+00	1.572E+00	6.669E+01	8.966E+01	3.280E+01	4.400E+01	1.497E+01	2.888E+01	8.884E+02
150	2.581E+00	9.699E+01	1.776E+00	5.683E+01	1.016E+00	2.569E+01	5.619E+01	1.051E+01	2.843E+01	3.981E+02	1.737E+01	2.052E+02
179	2.247E+00	7.198E+01	1.546E+00	4.021E+01	8.842E+01	1.603E+01	4.892E+01	5.697E+02	2.476E+01	1.628E+02	1.512E+01	6.384E+03
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	1.279E+07	1.283E+07	7.617E+06	7.640E+06	5.060E+06	5.075E+06	2.702E+06	2.711E+06	1.374E+06	1.378E+06	6.292E+05	6.311E+05
2	7.994E+05	8.037E+05	4.761E+05	4.786E+05	3.163E+05	3.180E+05	1.688E+05	1.698E+05	8.586E+04	8.632E+04	3.923E+04	3.954E+04
3	1.580E+05	1.591E+05	9.407E+04	9.478E+04	6.249E+04	6.296E+04	3.338E+04	3.363E+04	1.697E+04	1.709E+04	7.771E+03	7.829E+03
4	4.999E+04	5.047E+04	2.978E+04	3.006E+04	1.978E+04	1.997E+04	1.056E+04	1.066E+04	5.370E+03	5.421E+03	2.480E+03	2.483E+03
6	9.886E+03	1.001E+04	5.888E+03	5.964E+03	3.911E+03	3.962E+03	2.089E+03	2.116E+03	1.062E+03	1.076E+03	4.863E+02	4.927E+02
8	3.132E+03	3.182E+03	1.866E+03	1.895E+03	1.239E+03	1.259E+03	6.619E+02	6.724E+02	3.364E+02	3.419E+02	1.541E+02	1.565E+02
10	1.285E+03	1.308E+03	7.655E+02	7.792E+02	5.085E+02	5.177E+02	2.716E+02	2.765E+02	1.331E+02	1.405E+02	6.323E+01	6.437E+01
15	2.555E+02	2.606E+02	1.522E+02	1.552E+02	1.011E+02	1.031E+02	5.399E+01	5.506E+01	2.744E+01	2.799E+01	1.257E+01	1.282E+01
20	8.157E+01	8.298E+01	4.858E+01	4.942E+01	3.227E+01	3.283E+01	1.724E+01	1.753E+01	8.761E+00	8.911E+00	4.013E+00	4.082E+00
30	1.653E+01	1.650E+01	9.844E+00	9.824E+00	6.539E+00	6.555E+00	3.492E+00	3.484E+00	1.775E+00	1.771E+00	8.131E+01	8.111E+01
45	3.458E+00	3.241E+00	2.060E+00	1.928E+00	1.368E+00	1.290E+00	7.307E+01	6.835E+01	3.714E+01	3.474E+01	1.701E+01	1.591E+01
60	1.187E+00	9.993E+01	7.067E+01	5.939E+01	4.695E+01	3.941E+01	2.507E+01	2.103E+01	1.275E+01	1.068E+01	5.838E+02	4.891E+02
75	5.400E+01	3.895E+01	3.216E+01	2.311E+01	2.137E+01	1.532E+01	1.141E+01	8.166E+02	5.800E+02	4.147E+02	2.657E+02	1.898E+02
90	2.967E+01	1.734E+01	1.767E+01	1.026E+01	1.174E+01	6.790E+02	6.268E+02	3.615E+02	3.186E+02	1.834E+02	1.459E+02	8.392E+03
120	1.319E+01	4.062E+02	7.853E+02	2.371E+02	5.217E+02	1.558E+02	2.786E+02	8.241E+03	1.416E+02	4.165E+03	4.486E+03	1.982E+03
150	8.520E+02	8.442E+03	5.074E+02	4.628E+03	3.371E+02	2.940E+03	1.800E+02	1.503E+03	9.151E+03	7.444E+04	4.191E+03	3.359E+04
179	7.418E+02	1.605E+03	4.418E+02	5.807E+04	2.935E+02	2.593E+04	1.567E+02	7.521E+05	7.967E+03	1.987E+05	3.649E+03	4.358E+06
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	3.595E+05	3.606E+05	1.623E+05	1.628E+05	9.208E+04	9.234E+04	5.921E+04	5.939E+04	3.038E+04	3.048E+04	1.495E+04	1.500E+04
2	2.247E+04	2.259E+04	1.015E+04	1.020E+04	5.755E+03	5.786E+03	3.701E+03	3.721E+03	1.899E+03	1.909E+03	9.346E+02	9.384E+02
3	4.440E+03	4.473E+03	2.005E+03	2.020E+03	1.137E+03	1.146E+03	7.313E+02	7.368E+02	3.752E+02	3.781E+02	1.847E+02	1.861E+02
4	1.405E+03	1.419E+03	6.346E+02	6.407E+02	3.599E+02	3.633E+02	2.315E+02	2.337E+02	1.188E+02	1.199E+02	5.845E+01	5.901E+01
6	2.779E+02	2.815E+02	1.255E+02	1.271E+02	7.116E+01	7.209E+01	4.577E+01	4.637E+01	2.349E+01	2.379E+01	1.156E+01	1.171E+01
8	8.804E+01	8.944E+01	3.976E+01	4.039E+01	2.255E+01	2.291E+01	1.450E+01	1.473E+01	7.441E+00	7.560E+00	3.662E+00	3.720E+00
10	3.613E+01	3.678E+01	1.632E+01	1.661E+01	9.253E+00	9.419E+00	5.951E+00	6.058E+00	3.054E+00	3.108E+00	1.503E+00	1.530E+00
15	7.182E+00	7.325E+00	3.243E+00	3.308E+00	1.839E+00	1.876E+00	1.183E+00	1.207E+00	6.070E+01	6.191E+01	2.987E+01	3.047E+01
20	2.293E+00	2.332E+00	1.035E+00	1.053E+00	5.872E+01	5.973E+01	3.777E+01	3.841E+01	1.938E+01	1.971E+01	9.536E+02	9.700E+02
30	4.646E+01	4.634E+01	2.098E+01	2.093E+01	1.190E+01	1.187E+01	7.652E+02	7.634E+02	3.927E+02	3.917E+02	1.932E+02	1.928E+02
45	9.720E+02	9.088E+02	4.390E+02	4.104E+02	2.489E+02	2.357E+02	1.601E+02	1.497E+02	8.218E+03	7.681E+03	4.043E+03	3.780E+03
60	3.335E+02	2.794E+02	1.506E+02	1.262E+02	8.542E+03	7.166E+03	5.494E+03	4.602E+03	2.819E+03	2.362E+03	1.387E+03	1.162E+03
75	1.519E+02	1.084E+02	6.855E+03	4.896E+03	3.887E+03	2.776E+03	2.590E+03	1.786E+03	1.283E+03	9.162E+04	6.314E+04	5.094E+04
90	3.398E+03	4.793E+03	3.766E+03	2.164E+03	2.136E+03	1.227E+03	1.374E+03	7.891E+04	7.048E+04	4.049E+04	3.468E+04	1.992E+04
120	3.706E+03	1.085E+03	1.674E+03	4.897E+04	9.491E+04	2.776E+04	6.105E+04	1.785E+04	3.132E+04	9.160E+05	1.541E+04	4.507E+05
150	2.395E+03	1.909E+04	1.081E+03	8.585E+05	6.133E+04	4.862E+05	3.945E+04	3.125E+05	2.024E+04	1.602E+05	9.961E+05	7.883E+06
179	2.085E+03	1.505E+06	9.416E+04	3.536E+07	5.340E+04	1.346E+07	3.434E+04	6.674E+08	1.762E+04	2.531E+08	8.672E+05	1.010E+08

SI (14)

(BARNS/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	4.388E+13	4.390E+13	1.952E+13	1.953E+13	1.099E+13	1.100E+13	4.894E+12	4.898E+12	2.758E+12	2.760E+12	1.769E+12	1.770E+12
2	2.743E+12	2.744E+12	1.220E+12	1.221E+12	6.870E+11	6.875E+11	3.059E+11	3.062E+11	1.724E+11	1.726E+11	1.106E+11	1.107E+11
3	5.419E+11	5.423E+11	2.411E+11	2.413E+11	1.357E+11	1.358E+11	6.045E+10	6.050E+10	3.407E+10	3.410E+10	2.185E+10	2.187E+10
4	1.715E+11	1.716E+11	7.631E+10	7.637E+10	4.297E+10	4.300E+10	1.913E+10	1.915E+10	1.078E+10	1.079E+10	6.915E+09	6.922E+09
6	3.392E+10	3.394E+10	1.509E+10	1.510E+10	8.496E+09	8.503E+09	3.763E+09	3.787E+09	2.132E+09	2.135E+09	1.367E+09	1.369E+09
8	1.075E+10	1.076E+10	4.781E+09	4.785E+09	2.692E+09	2.699E+09	1.199E+09	1.200E+09	6.756E+08	6.765E+08	4.332E+08	4.339E+08
10	4.410E+09	4.414E+09	1.962E+09	1.964E+09	1.105E+09	1.106E+09	4.919E+08	4.925E+08	2.772E+08	2.777E+08	1.778E+08	1.781E+08
15	8.767E+08	8.775E+08	3.900E+08	3.904E+08	2.196E+08	2.198E+08	9.779E+07	9.795E+07	5.511E+07	5.525E+07	3.534E+07	3.545E+07
20	2.799E+08	2.801E+08	1.245E+08	1.246E+08	7.010E+07	7.019E+07	3.122E+07	3.129E+07	1.759E+07	1.766E+07	1.128E+07	1.133E+07
30	5.671E+07	5.674E+07	2.523E+07	2.526E+07	1.420E+07	1.424E+07	6.325E+06	6.356E+06	3.565E+06	3.588E+06	2.286E+06	2.304E+06
45	1.186E+07	1.189E+07	5.278E+06	5.299E+06	2.972E+06	2.989E+06	1.323E+06	1.335E+06	7.459E+05	7.540E+05	4.783E+05	4.842E+05
60	4.071E+06	4.088E+06	1.811E+06	1.824E+06	1.020E+06	1.029E+06	4.541E+05	4.596E+05	2.559E+05	2.595E+05	1.641E+05	1.666E+05
75	1.853E+06	1.866E+06	8.243E+05	8.325E+05	4.641E+05	4.696E+05	2.067E+05	2.096E+05	1.165E+05	1.183E+05	7.489E+04	7.587E+04
90	1.018E+06	1.028E+06	4.528E+05	4.586E+05	2.550E+05	2.586E+05	1.135E+05	1.153E+05	6.399E+04	6.499E+04	4.103E+04	4.166E+04
120	4.524E+05	4.604E+05	2.013E+05	2.050E+05	1.133E+05	1.154E+05	5.046E+04	5.132E+04	2.844E+04	2.887E+04	1.824E+04	1.847E+04
150	2.923E+05	2.995E+05	1.300E+05	1.331E+05	7.322E+04	7.482E+04	3.261E+04	3.320E+04	1.838E+04	1.864E+04	1.178E+04	1.191E+04
179	2.545E+05	2.614E+05	1.132E+05	1.161E+05	6.375E+04	6.524E+04	2.839E+04	2.892E+04	1.600E+04	1.623E+04	1.026E+04	1.036E+04
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	9.059E+11	9.066E+11	4.465E+11	4.468E+11	2.003E+11	2.005E+11	1.137E+11	1.138E+11	5.147E+10	5.154E+10	2.947E+10	2.951E+10
2	5.663E+10	5.668E+10	2.791E+10	2.794E+10	1.252E+10	1.254E+10	7.109E+09	7.120E+09	3.218E+09	3.224E+09	1.842E+09	1.846E+09
3	1.119E+10	1.120E+10	5.514E+09	5.522E+09	2.474E+09	2.478E+09	1.405E+09	1.408E+09	6.357E+08	6.375E+08	3.640E+08	3.651E+08
4	3.542E+09	3.546E+09	1.745E+09	1.748E+09	7.830E+08	7.849E+08	4.446E+08	4.458E+08	2.012E+08	2.019E+08	1.152E+08	1.157E+08
6	7.003E+08	7.015E+08	3.451E+08	3.459E+08	1.548E+08	1.553E+08	8.791E+07	8.826E+07	3.979E+07	3.999E+07	2.278E+07	2.291E+07
8	2.219E+08	2.224E+08	1.093E+08	1.097E+08	4.906E+07	4.927E+07	2.785E+07	2.800E+07	1.261E+07	1.269E+07	7.218E+06	7.273E+06
10	9.105E+07	9.131E+07	4.467E+07	4.505E+07	2.013E+07	2.024E+07	1.143E+07	1.150E+07	5.173E+06	5.215E+06	2.962E+06	2.989E+06
15	1.810E+07	1.818E+07	8.920E+06	8.975E+06	4.002E+06	4.034E+06	2.272E+06	2.294E+06	1.028E+06	1.040E+06	5.888E+05	5.965E+05
20	5.778E+06	5.815E+06	2.848E+06	2.872E+06	1.278E+06	1.291E+06	7.253E+05	7.343E+05	3.283E+05	3.331E+05	1.888E+05	1.910E+05
30	1.171E+06	1.183E+06	5.770E+05	5.842E+05	2.589E+05	2.627E+05	1.470E+05	1.494E+05	6.652E+04	6.775E+04	3.809E+04	3.883E+04
45	2.450E+05	2.485E+05	1.207E+05	1.227E+05	5.416E+04	5.514E+04	3.075E+04	3.133E+04	1.392E+04	1.418E+04	7.969E+03	8.112E+03
60	8.406E+04	8.543E+04	1.443E+04	1.471E+04	1.859E+04	1.890E+04	1.055E+04	1.072E+04	4.776E+03	4.835E+03	2.735E+03	2.757E+03
75	3.825E+04	3.887E+04	1.885E+04	1.914E+04	8.458E+03	8.562E+03	4.802E+03	4.844E+03	2.174E+03	2.175E+03	1.244E+03	1.235E+03
90	2.101E+04	2.131E+04	1.036E+04	1.047E+04	4.646E+03	4.670E+03	2.638E+03	2.634E+03	1.194E+03	1.177E+03	6.836E+02	6.647E+02
120	9.340E+03	9.416E+03	4.603E+03	4.606E+03	2.065E+03	2.040E+03	1.172E+03	1.144E+03	5.307E+02	5.049E+02	3.038E+02	2.821E+02
150	6.035E+03	6.054E+03	2.974E+03	2.950E+03	1.334E+03	1.300E+03	7.576E+02	7.250E+02	3.429E+02	3.170E+02	1.963E+02	1.755E+02
179	5.255E+03	5.261E+03	2.589E+03	2.560E+03	1.162E+03	1.126E+03	6.596E+02	6.266E+02	2.986E+02	2.729E+02	1.709E+02	1.509E+02
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	1.919E+10	1.922E+10	1.012E+10	1.014E+10	5.195E+09	5.205E+09	2.476E+09	2.482E+09	1.483E+09	1.486E+09	7.325E+08	7.344E+08
2	1.200E+09	1.203E+09	6.326E+08	6.344E+08	3.247E+08	3.258E+08	1.548E+08	1.554E+08	9.267E+07	9.305E+07	4.579E+07	4.600E+07
3	2.370E+08	2.378E+08	1.250E+08	1.255E+08	6.416E+07	6.446E+07	3.059E+07	3.075E+07	1.831E+07	1.842E+07	9.047E+06	9.106E+06
4	7.502E+07	7.535E+07	3.956E+07	3.977E+07	2.031E+07	2.043E+07	9.681E+06	9.748E+06	5.796E+06	5.839E+06	2.864E+06	2.887E+06
6	1.403E+07	1.493E+07	7.822E+06	7.881E+06	4.015E+06	4.040E+06	1.914E+06	1.933E+06	1.146E+06	1.158E+06	5.662E+05	5.728E+05
8	4.700E+06	4.739E+06	2.479E+06	2.502E+06	1.272E+06	1.286E+06	6.065E+05	6.141E+05	3.631E+05	3.688E+05	1.794E+05	1.820E+05
10	1.929E+06	1.948E+06	1.017E+06	1.029E+06	5.221E+05	5.289E+05	2.889E+05	2.926E+05	1.490E+05	1.513E+05	7.362E+04	7.487E+04
15	3.834E+05	3.888E+05	2.022E+05	2.054E+05	1.038E+05	1.056E+05	4.948E+04	5.042E+04	2.962E+04	3.021E+04	1.463E+04	1.494E+04
20	1.224E+05	1.245E+05	6.455E+04	6.576E+04	3.313E+04	3.380E+04	1.580E+04	1.613E+04	9.456E+03	9.663E+03	4.672E+03	4.776E+03
30	2.480E+04	2.530E+04	1.308E+04	1.335E+04	6.713E+03	6.852E+03	3.206E+03	3.263E+03	1.916E+03	1.950E+03	9.467E+02	9.610E+02
45	5.189E+03	5.275E+03	2.736E+03	2.774E+03	1.405E+03	1.417E+03	6.696E+02	6.700E+02	4.009E+02	3.983E+02	1.981E+02	1.946E+02
60	1.781E+03	1.783E+03	9.390E+02	9.346E+02	4.820E+02	4.739E+02	2.298E+02	2.216E+02	1.376E+02	1.306E+02	6.797E+01	6.295E+01
75	8.103E+02	7.975E+02	4.273E+02	4.138E+02	2.194E+02	2.079E+02	1.046E+02	9.572E+01	6.260E+01	5.572E+01	3.093E+01	2.635E+01
90	4.451E+02	4.272E+02	2.348E+02	2.196E+02	1.205E+02	1.088E+02	5.745E+01	4.927E+01	3.439E+01	2.823E+01	1.699E+01	1.302E+01
120	1.978E+02	1.793E+02	1.043E+02	9.034E+01	5.356E+01	4.348E+01	2.553E+01	1.883E+01	1.528E+01	1.036E+01	7.552E+00	4.456E+00
150	1.278E+02	1.106E+02	7.642E+01	5.471E+01	3.461E+01	2.546E+01	1.650E+01	1.064E+01	9.876E+00	5.614E+00	4.880E+00	2.222E+00
179	1.113E+02	9.451E+01	5.870E+01	4.844E+01	3.013E+01	2.144E+01	1.436E+01	8.771E+00	8.599E+00	4.537E+00	4.249E+00	1.722E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	4.494E+08	4.506E+08	3.092E+08	3.101E+08	1.768E+08	1.773E+08	9.782E+07	9.812E+07	4.950E+07	4.966E+07	3.024E+07	3.033E+07
2	2.808E+07	2.822E+07	1.938E+07	1.942E+07	1.105E+07	1.111E+07	6.115E+06	6.148E+06	3.094E+06	3.112E+06	1.890E+06	1.901E+06
3	5.550E+06	5.588E+06	3.819E+06	3.846E+06	2.184E+06	2.200E+06	1.208E+06	1.217E+06	6.114E+05	6.162E+05	3.734E+05	3.764E+05
4	1.757E+06	1.762E+06	1.209E+06	1.220E+06	6.912E+05	6.977E+05	3.824E+05	3.862E+05	1.935E+05	1.955E+05	1.182E+05	1.194E+05
6	3.473E+05	3.516E+05	2.390E+05	2.420E+05	1.367E+05	1.395E+05	7.561E+04	7.664E+04	3.826E+04	3.880E+04	2.337E+04	2.370E+04
8	1.101E+05	1.117E+05	7.572E+04	7.692E+04	4.330E+04	4.401E+04	2.396E+04	2.436E+04	1.212E+04	1.233E+04	7.405E+03	7.533E+03
10	4.516E+04	4.596E+04	3.107E+04	3.164E+04	1.777E+04	1.810E+04	9.832E+03	1.002E+04	4.975E+03	5.073E+03	3.039E+03	3.099E+03
15	8.978E+03	9.172E+03	6.177E+03	6.313E+03	3.532E+03	3.611E+03	1.954E+03	1.999E+03	9.890E+02	1.011E+03	6.041E+02	6.178E+02
20	2.866E+03	2.930E+03	1.972E+03	2.016E+03	1.128E+03	1.152E+03	6.239E+02	6.374E+02	3.157E+02	3.225E+02	1.928E+02	1.969E+02
30	5.807E+02	5.883E+02	3.996E+02	4.041E+02	2.285E+02	2.305E+02	1.264E+02	1.273E+02	6.397E+01	6.431E+01	3.907E+01	3.925E+01
45	1.215E+02	1.184E+02	8.360E+01	8.097E+01	4.781E+01	4.593E+01	2.645E+01	2.524E+01	1.339E+01	1.270E+01	8.176E+00	7.738E+00
60	4.169E+01	3.794E+01	2.869E+01	2.576E+01	1.641E+01	1.447E+01	9.077E+00	7.890E+00	4.593E+00	3.945E+00	2.805E+00	2.396E+00
75	1.897E+01	1.566E+01	1.306E+01	1.052E+01	7.466E+00	5.829E+00	4.131E+00	3.138E+00	2.090E+00	1.554E+00	1.277E+00	9.391E-01
90	1.042E+01	7.590E+00	7.172E+00	5.025E+00	4.101E+00	2.726E+00	2.269E+00	1.441E+00	1.148E+00	7.023E-01	7.014E-01	4.214E-01
120	4.633E+00	2.452E+00	3.187E+00	1.548E+00	1.823E+00	7.807E-01	1.009E+00	3.844E-01	5.103E-01	1.757E-01	3.117E-01	1.020E-01
150	2.994E+00	1.130E+00	2.060E+00	6.626E-01	1.178E+00	2.927E-01	6.517E-01	1.227E-01	3.298E-01	4.659E-02	2.014E-01	2.405E-02
179	2.606E+00	8.372E-01	1.793E+00	4.677E-01	1.025E+00	1.864E-01	5.674E-01	6.626E-02	2.871E-01	1.894E-02	1.754E-01	7.426E-03
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	1.483E+07	1.488E+07	8.834E+06	8.862E+06	5.868E+06	5.887E+06	3.134E+06	3.144E+06	1.593E+06	1.598E+06	7.297E+05	7.320E+05
2	9.272E+05	9.324E+05	5.522E+05	5.553E+05	3.668E+05	3.689E+05	1.959E+05	1.970E+05	9.958E+04	1.002E+05	4.561E+04	4.587E+04
3	1.832E+05	1.847E+05	1.091E+05	1.100E+05	7.248E+04	7.308E+04	3.871E+04	3.902E+04	1.968E+04	1.984E+04	9.012E+03	9.085E+03
4	5.798E+04	5.858E+04	3.453E+04	3.489E+04	2.294E+04	2.318E+04	1.225E+04	1.238E+04	6.228E+03	6.292E+03	2.852E+03	2.882E+03
6	1.146E+04	1.163E+04	6.828E+03	6.925E+03	4.536E+03	4.601E+03	2.423E+03	2.457E+03	1.231E+03	1.249E+03	5.640E+02	5.721E+02
8	3.633E+03	3.696E+03	2.164E+03	2.201E+03	1.437E+03	1.446E+03	7.676E+02	7.810E+02	3.902E+02	3.970E+02	1.787E+02	1.818E+02
10	1.491E+03	1.520E+03	8.878E+02	9.055E+02	5.898E+02	6.015E+02	3.150E+02	3.213E+02	1.601E+02	1.633E+02	7.334E+01	7.480E+01
15	2.963E+02	3.031E+02	1.765E+02	1.805E+02	1.172E+02	1.199E+02	6.262E+01	6.405E+01	3.183E+01	3.256E+01	1.458E+01	1.491E+01
20	9.460E+01	9.660E+01	5.634E+01	5.753E+01	3.743E+01	3.822E+01	1.999E+01	2.041E+01	1.016E+01	1.037E+01	4.654E+00	4.752E+00
30	1.917E+01	1.924E+01	1.142E+01	1.146E+01	7.584E+00	7.609E+00	4.050E+00	4.063E+00	2.059E+00	2.065E+00	9.430E-01	9.459E-01
45	4.011E+00	3.787E+00	2.389E+00	2.253E+00	1.587E+00	1.496E+00	8.474E-01	7.988E-01	4.308E-01	4.059E-01	1.973E-01	1.859E-01
60	1.376E+00	1.170E+00	8.197E-01	6.952E-01	5.445E-01	4.614E-01	2.908E-01	2.462E-01	1.478E-01	1.251E-01	6.770E-02	5.726E-02
75	6.263E-01	4.565E-01	3.730E-01	2.708E-01	2.478E-01	1.796E-01	1.323E-01	9.573E-02	6.727E-02	4.841E-02	3.081E-02	2.225E-02
90	3.441E-01	2.034E-01	2.049E-01	1.204E-01	1.361E-01	7.09E-02	7.270E-02	4.242E-02	3.695E-02	2.152E-02	1.693E-02	9.849E-03
120	1.529E-01	4.772E-02	9.107E-02	2.786E-02	6.050E-02	1.832E-02	3.231E-02	9.687E-03	1.642E-02	4.896E-03	7.523E-03	2.236E-03
150	9.881E-02	9.909E-03	5.885E-02	5.437E-03	3.909E-02	3.456E-03	2.088E-02	1.767E-03	1.061E-02	4.659E-04	4.861E-03	3.952E-04
179	8.603E-02	1.867E-03	5.124E-02	6.754E-04	3.404E-02	3.017E-04	1.818E-02	4.750E-05	9.240E-03	2.313E-05	4.232E-03	5.074E-06
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	4.169E+05	4.182E+05	1.883E+05	1.889E+05	1.068E+05	1.071E+05	6.867E+04	6.889E+04	3.524E+04	3.535E+04	1.734E+04	1.740E+04
2	2.606E+04	2.621E+04	1.177E+04	1.184E+04	6.674E+03	6.712E+03	4.293E+03	4.317E+03	2.203E+03	2.215E+03	1.084E+03	1.090E+03
3	5.149E+03	5.191E+03	2.325E+03	2.344E+03	1.319E+03	1.329E+03	8.482E+02	8.551E+02	4.252E+02	4.347E+02	2.142E+02	2.159E+02
4	1.630E+03	1.647E+03	7.360E+02	7.436E+02	4.174E+02	4.217E+02	2.685E+02	2.712E+02	1.377E+02	1.392E+02	6.779E+01	6.849E+01
6	3.223E+02	3.269E+02	1.455E+02	1.476E+02	8.253E+01	8.371E+01	5.308E+01	5.384E+01	2.724E+01	2.763E+01	1.340E+01	1.360E+01
8	1.021E+02	1.039E+02	4.611E+01	4.692E+01	2.615E+01	2.661E+01	1.682E+01	1.711E+01	8.630E+00	8.781E+00	4.247E+00	4.321E+00
10	4.190E+01	4.274E+01	1.892E+01	1.930E+01	1.073E+01	1.095E+01	6.902E+00	7.040E+00	3.541E+00	3.612E+00	1.743E+00	1.778E+00
15	8.329E+00	8.526E+00	3.762E+00	3.848E+00	2.133E+00	2.182E+00	1.372E+00	1.403E+00	7.040E-01	7.201E-01	3.464E-01	3.544E-01
20	2.659E+00	2.715E+00	1.201E+00	1.226E+00	5.810E-01	5.953E-01	4.380E-01	4.472E-01	2.247E-01	2.295E-01	1.106E-01	1.129E-01
30	5.388E-01	5.404E-01	2.633E-01	2.641E-01	1.390E-01	1.384E-01	8.875E-02	8.902E-02	4.554E-02	4.559E-02	2.241E-02	2.248E-02
45	1.127E-01	1.062E-01	5.091E-02	4.796E-02	2.887E-02	2.720E-02	1.857E-02	1.749E-02	9.528E-03	8.976E-03	4.689E-03	4.417E-03
60	3.868E-02	3.271E-02	1.747E-02	1.477E-02	9.907E-03	8.377E-03	6.372E-03	5.388E-03	3.270E-03	2.764E-03	1.609E-03	1.360E-03
75	1.760E-02	1.271E-02	7.950E-03	5.739E-03	4.509E-03	3.255E-03	2.900E-03	2.093E-03	1.488E-03	1.074E-03	7.327E-04	5.285E-04
90	9.671E-03	5.625E-03	4.367E-03	2.540E-03	2.477E-03	1.440E-03	1.593E-03	9.262E-04	8.174E-04	4.752E-04	4.022E-04	2.338E-04
120	4.298E-03	1.276E-03	1.941E-03	5.757E-04	1.101E-03	3.264E-04	7.080E-04	2.099E-04	3.633E-04	1.077E-04	1.788E-04	5.299E-05
150	2.777E-03	2.246E-04	1.254E-03	1.010E-04	7.113E-04	5.720E-05	4.575E-04	3.677E-05	2.347E-04	1.885E-05	1.155E-04	9.275E-06
179	2.418E-03	1.753E-06	1.092E-03	4.125E-07	6.193E-04	1.572E-07	3.983E-04	7.806E-08	2.044E-04	2.966E-08	1.006E-04	1.186E-08

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	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	5.037E+13	5.040E+13	2.241E+13	2.242E+13	1.262E+13	1.262E+13	5.619E+12	5.622E+12	3.167E+12	3.169E+12	2.031E+12	2.032E+12
2	3.149E+12	3.151E+12	1.401E+12	1.402E+12	7.887E+11	7.892E+11	3.512E+11	3.515E+11	1.979E+11	1.981E+11	1.269E+11	1.270E+11
3	6.221E+11	6.225E+11	2.768E+11	2.769E+11	1.558E+11	1.559E+11	6.939E+10	6.945E+10	3.911E+10	3.914E+10	2.508E+10	2.510E+10
4	1.969E+11	1.970E+11	8.760E+10	8.766E+10	4.932E+10	4.936E+10	2.196E+10	2.198E+10	1.238E+10	1.239E+10	7.938E+09	7.946E+09
6	3.894E+10	3.896E+10	1.732E+10	1.734E+10	9.753E+09	9.742E+09	4.343E+09	4.347E+09	2.448E+09	2.450E+09	1.570E+09	1.572E+09
8	1.234E+10	1.235E+10	5.488E+09	5.494E+09	3.090E+09	3.093E+09	1.376E+09	1.378E+09	7.756E+08	7.765E+08	4.973E+08	4.981E+08
10	5.062E+09	5.067E+09	2.252E+09	2.254E+09	1.268E+09	1.269E+09	5.647E+08	5.653E+08	3.183E+08	3.187E+08	2.041E+08	2.045E+08
15	1.005E+09	1.007E+09	4.477E+08	4.481E+08	2.521E+08	2.523E+08	1.123E+08	1.124E+08	6.327E+07	6.341E+07	4.057E+07	4.069E+07
20	3.213E+08	3.216E+08	1.429E+08	1.430E+08	8.047E+07	8.056E+07	3.584E+07	3.591E+07	2.020E+07	2.027E+07	1.295E+07	1.301E+07
30	6.510E+07	6.513E+07	2.896E+07	2.899E+07	1.631E+07	1.634E+07	7.261E+06	7.294E+06	4.092E+06	4.119E+06	2.624E+06	2.645E+06
45	1.362E+07	1.364E+07	6.059E+06	6.080E+06	3.412E+06	3.431E+06	1.519E+06	1.533E+06	8.563E+05	8.659E+05	5.491E+05	5.562E+05
60	4.674E+06	4.691E+06	2.079E+06	2.093E+06	1.171E+06	1.182E+06	5.213E+05	5.279E+05	2.938E+05	2.982E+05	1.884E+05	1.915E+05
75	2.127E+06	2.141E+06	9.462E+05	9.560E+05	5.328E+05	5.355E+05	2.373E+05	2.409E+05	1.337E+05	1.360E+05	8.574E+04	8.726E+04
90	1.168E+06	1.181E+06	5.198E+05	5.269E+05	2.927E+05	2.972E+05	1.303E+05	1.326E+05	7.345E+04	7.477E+04	4.710E+04	4.794E+04
120	5.193E+05	5.296E+05	2.310E+05	2.359E+05	1.301E+05	1.258E+05	5.793E+04	5.909E+04	3.265E+04	3.325E+04	2.093E+04	2.128E+04
150	3.356E+05	3.450E+05	1.493E+05	1.534E+05	8.405E+04	8.624E+04	3.743E+04	3.828E+04	2.110E+04	2.149E+04	1.353E+04	1.372E+04
179	2.922E+05	3.014E+05	1.300E+05	1.339E+05	7.318E+04	7.523E+04	3.259E+04	3.336E+04	1.837E+04	1.872E+04	1.178E+04	1.195E+04
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.040E+12	1.041E+12	5.125E+11	5.129E+11	2.299E+11	2.302E+11	1.306E+11	1.307E+11	5.909E+10	5.917E+10	3.383E+10	3.388E+10
2	6.501E+10	6.507E+10	3.204E+10	3.207E+10	1.437E+10	1.439E+10	8.161E+09	8.174E+09	3.694E+09	3.701E+09	2.115E+09	2.120E+09
3	1.284E+10	1.286E+10	6.330E+09	6.339E+09	2.840E+09	2.845E+09	1.612E+09	1.616E+09	7.298E+08	7.318E+08	4.178E+08	4.192E+08
4	4.066E+09	4.071E+09	2.004E+09	2.007E+09	8.989E+08	9.009E+08	5.104E+08	5.118E+08	2.310E+08	2.318E+08	1.323E+08	1.328E+08
6	8.039E+08	8.052E+08	3.962E+08	3.971E+08	1.777E+08	1.783E+08	1.009E+08	1.013E+08	4.568E+07	4.591E+07	2.615E+07	2.631E+07
8	2.547E+08	2.553E+08	1.255E+08	1.259E+08	5.632E+07	5.647E+07	3.198E+07	3.215E+07	1.447E+07	1.457E+07	8.286E+06	8.352E+06
10	1.045E+08	1.048E+08	5.151E+07	5.171E+07	2.311E+07	2.324E+07	1.312E+07	1.321E+07	5.939E+06	5.987E+06	3.400E+06	3.434E+06
15	2.078E+07	2.087E+07	1.024E+07	1.030E+07	4.594E+06	4.633E+06	2.608E+06	2.635E+06	1.181E+06	1.195E+06	6.759E+05	6.854E+05
20	6.633E+06	6.676E+06	3.269E+06	3.297E+06	1.467E+06	1.483E+06	6.327E+05	6.436E+05	3.769E+05	3.828E+05	2.158E+05	2.196E+05
30	1.344E+06	1.358E+06	6.624E+05	6.711E+05	2.972E+05	3.020E+05	1.687E+05	1.718E+05	7.637E+04	7.792E+04	4.372E+04	4.468E+04
45	2.818E+05	2.856E+05	1.386E+05	1.411E+05	6.218E+04	6.343E+04	3.530E+04	3.605E+04	1.598E+04	1.632E+04	9.148E+03	9.342E+03
60	9.650E+04	9.825E+04	4.755E+04	4.848E+04	2.134E+04	2.176E+04	1.211E+04	1.234E+04	5.483E+03	5.570E+03	3.139E+03	3.178E+03
75	4.391E+04	4.472E+04	2.164E+04	2.203E+04	9.710E+03	9.860E+03	5.513E+03	5.680E+03	2.495E+03	2.507E+03	1.429E+03	1.444E+03
90	2.412E+04	2.453E+04	1.189E+04	1.206E+04	5.334E+03	5.380E+03	3.288E+03	3.036E+03	1.371E+03	1.356E+03	7.848E+02	7.625E+02
120	1.072E+04	1.085E+04	5.284E+03	5.307E+03	2.371E+03	2.352E+03	1.346E+03	1.318E+03	6.022E+02	5.820E+02	3.488E+02	3.252E+02
150	6.928E+03	6.980E+03	3.414E+03	3.401E+03	1.532E+03	1.498E+03	8.697E+02	8.357E+02	3.536E+02	3.653E+02	2.254E+02	2.022E+02
179	6.032E+03	6.067E+03	2.973E+03	2.952E+03	1.334E+03	1.298E+03	7.572E+02	7.223E+02	3.427E+02	3.145E+02	1.962E+02	1.735E+02
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	2.203E+10	2.206E+10	1.162E+10	1.164E+10	5.963E+09	5.975E+09	2.843E+09	2.849E+09	1.702E+09	1.706E+09	8.409E+08	8.432E+08
2	1.377E+09	1.381E+09	7.262E+08	7.284E+08	3.728E+08	3.741E+08	1.777E+08	1.784E+08	1.064E+08	1.068E+08	5.256E+07	5.282E+07
3	2.721E+08	2.731E+08	1.435E+08	1.441E+08	7.365E+07	7.401E+07	3.511E+07	3.531E+07	2.102E+07	2.115E+07	1.039E+07	1.046E+07
4	8.612E+07	8.652E+07	4.541E+07	4.566E+07	2.331E+07	2.346E+07	1.111E+07	1.120E+07	6.653E+06	6.706E+06	3.287E+06	3.316E+06
6	1.703E+07	1.714E+07	8.989E+06	9.051E+06	4.610E+06	4.652E+06	2.197E+06	2.221E+06	1.316E+06	1.330E+06	6.500E+05	6.581E+05
8	5.395E+06	5.443E+06	2.845E+06	2.875E+06	1.461E+06	1.478E+06	6.963E+05	7.056E+05	4.168E+05	4.228E+05	2.066E+05	2.092E+05
10	2.214E+06	2.238E+06	1.168E+06	1.182E+06	5.993E+05	6.078E+05	2.857E+05	2.903E+05	1.710E+05	1.740E+05	8.451E+04	8.688E+04
15	4.401E+05	4.468E+05	2.321E+05	2.361E+05	1.191E+05	1.214E+05	5.680E+04	5.799E+04	3.400E+04	3.475E+04	1.680E+04	1.719E+04
20	1.405E+05	1.431E+05	7.410E+04	7.563E+04	3.803E+04	3.889E+04	1.813E+04	1.857E+04	1.085E+04	1.112E+04	5.363E+03	5.499E+03
30	2.847E+04	2.912E+04	1.501E+04	1.537E+04	7.707E+03	7.890E+03	3.674E+03	3.759E+03	2.199E+03	2.248E+03	1.087E+03	1.108E+03
45	5.957E+03	6.077E+03	3.141E+03	3.196E+03	1.613E+03	1.637E+03	7.687E+02	7.730E+02	4.602E+02	4.597E+02	2.274E+02	2.247E+02
60	2.044E+03	2.061E+03	1.078E+03	1.078E+03	5.533E+02	5.467E+02	2.638E+02	2.580E+02	1.579E+02	1.509E+02	7.802E+01	7.278E+01
75	9.302E+02	9.198E+02	4.906E+02	4.775E+02	2.518E+02	2.367E+02	1.200E+02	1.106E+02	7.186E+01	6.441E+01	3.551E+01	3.049E+01
90	5.110E+02	4.927E+02	2.695E+02	2.534E+02	1.383E+02	1.256E+02	6.595E+01	5.692E+01	3.948E+01	3.264E+01	1.951E+01	1.506E+01
120	2.271E+02	2.068E+02	1.198E+02	1.042E+02	6.148E+01	5.017E+01	2.931E+01	2.174E+01	1.755E+01	1.197E+01	6.669E+00	5.151E+00
150	1.468E+02	1.274E+02	7.739E+01	6.305E+01	3.973E+01	2.967E+01	1.894E+01	1.227E+01	1.134E+01	6.472E+00	5.602E+00	2.563E+00
179	1.278E+02	1.086E+02	6.738E+01	5.350E+01	3.459E+01	2.482E+01	1.649E+01	1.010E+01	9.871E+00	5.225E+00	4.877E+00	1.984E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-00MEV		1.5E-00MEV		2.0E-00MEV	
1	5.150E+08	5.173E+08	3.549E+08	3.560E+08	2.030E+08	2.036E+08	1.123E+08	1.127E+08	5.683E+07	5.701E+07	3.471E+07	3.483E+07
2	3.220E+07	3.241E+07	2.219E+07	2.230E+07	1.269E+07	1.276E+07	7.020E+06	7.060E+06	3.552E+06	3.573E+06	2.170E+06	2.183E+06
3	6.371E+06	6.418E+06	4.386E+06	4.417E+06	2.570E+06	2.577E+06	1.387E+06	1.398E+06	7.018E+05	7.078E+05	4.287E+05	4.323E+05
4	2.017E+06	2.036E+06	1.387E+06	1.401E+06	7.934E+05	8.015E+05	4.390E+05	4.430E+05	2.221E+05	2.245E+05	1.357E+05	1.372E+05
6	3.987E+05	4.040E+05	2.743E+05	2.781E+05	1.569E+05	1.591E+05	8.680E+04	8.808E+04	4.393E+04	4.459E+04	2.683E+04	2.724E+04
8	1.263E+05	1.286E+05	8.693E+04	8.842E+04	4.571E+04	4.649E+04	2.750E+04	2.801E+04	1.392E+04	1.418E+04	8.501E+03	8.661E+03
10	5.184E+04	5.285E+04	3.567E+04	3.638E+04	2.040E+04	2.082E+04	1.129E+04	1.152E+04	5.711E+03	5.834E+03	3.486E+03	3.564E+03
15	1.031E+04	1.056E+04	7.091E+03	7.266E+03	4.055E+03	4.157E+03	2.244E+03	2.301E+03	1.135E+03	1.164E+03	6.935E+02	7.113E+02
20	3.290E+03	3.374E+03	2.264E+03	2.322E+03	1.295E+03	1.350E+03	7.162E+02	7.344E+02	3.624E+02	3.716E+02	2.214E+02	2.269E+02
30	6.667E+02	6.784E+02	4.587E+02	4.661E+02	2.623E+02	2.660E+02	1.451E+02	1.469E+02	7.344E+01	7.422E+01	4.466E+01	4.530E+01
45	1.395E+02	1.368E+02	9.597E+01	9.357E+01	5.488E+01	5.309E+01	3.037E+01	2.918E+01	1.537E+01	1.469E+01	9.385E+00	9.950E+00
60	4.786E+01	4.388E+01	3.293E+01	2.981E+01	1.883E+01	1.676E+01	1.042E+01	9.137E+00	5.273E+00	4.570E+00	3.221E+00	2.776E+00
75	2.178E+01	1.813E+01	1.499E+01	1.219E+01	8.570E+00	7.764E+00	4.742E+00	3.638E+00	2.400E+00	1.802E+00	1.466E+00	1.090E+00
90	1.197E+01	8.789E+00	6.233E+00	5.822E+00	4.708E+00	3.161E+00	2.605E+00	1.872E+00	1.314E+00	8.154E+00	8.051E+00	4.893E+00
120	5.318E+00	2.837E+00	3.659E+00	1.792E+00	2.093E+00	9.048E+00	1.158E+00	4.460E+00	5.859E+00	2.041E+00	3.578E+00	1.185E+00
150	3.434E+00	1.304E+00	2.364E+00	7.649E+00	1.352E+00	3.382E+00	7.481E+00	1.420E+00	3.786E+00	5.399E+00	2.312E+00	2.791E+00
179	2.992E+00	9.642E+00	2.059E+00	5.386E+00	1.177E+00	2.147E+00	6.513E+00	7.631E+00	3.296E+00	2.181E+00	2.013E+00	8.551E+00
DEG	3.0E-00MEV		4.0E-00MEV		5.0E-00MEV		7.0E-00MEV		1.0E-01MEV		1.5E-01MEV	
1	1.703E+07	1.708E+07	1.014E+07	1.016E+07	6.737E+06	6.759E+06	3.598E+06	3.610E+06	1.829E+06	1.835E+06	8.376E+05	8.405E+05
2	1.064E+06	1.071E+06	6.339E+05	6.377E+05	4.211E+05	4.237E+05	2.249E+05	2.263E+05	1.143E+05	1.150E+05	5.236E+04	5.268E+04
3	2.103E+05	2.121E+05	1.252E+05	1.263E+05	8.320E+04	8.382E+04	4.443E+04	4.482E+04	2.259E+04	2.278E+04	1.035E+04	1.044E+04
4	6.556E+04	6.729E+04	3.964E+04	4.008E+04	2.633E+04	2.663E+04	1.406E+04	1.422E+04	7.149E+03	7.229E+03	3.275E+03	3.311E+03
6	1.316E+04	1.336E+04	7.839E+03	7.959E+03	5.207E+03	5.287E+03	2.781E+03	2.824E+03	1.410E+03	1.435E+03	6.475E+02	6.575E+02
8	4.170E+03	4.249E+03	2.488E+03	2.531E+03	1.650E+03	1.681E+03	8.812E+02	8.980E+02	4.479E+02	4.564E+02	2.052E+02	2.091E+02
10	1.711E+03	1.749E+03	1.019E+03	1.041E+03	6.770E+02	6.914E+02	3.616E+02	3.695E+02	1.838E+02	1.878E+02	8.419E+01	8.603E+01
15	3.402E+02	3.490E+02	2.028E+02	2.078E+02	1.346E+02	1.381E+02	7.188E+01	7.374E+01	3.654E+01	3.748E+01	1.674E+01	1.717E+01
20	1.086E+02	1.113E+02	6.468E+01	6.630E+01	4.297E+01	4.404E+01	2.295E+01	2.352E+01	1.166E+01	1.196E+01	5.342E+00	5.476E+00
30	2.200E+01	2.221E+01	1.311E+01	1.322E+01	8.708E+00	8.783E+00	4.650E+00	4.690E+00	2.363E+00	2.384E+00	1.083E+00	1.092E+00
45	4.604E+00	4.381E+00	2.742E+00	2.607E+00	1.822E+00	1.731E+00	9.728E+00	9.240E+00	4.945E+00	4.696E+00	2.265E+00	2.150E+00
60	1.580E+00	1.355E+00	9.409E+00	8.056E+00	6.251E+00	5.346E+00	3.338E+00	2.853E+00	1.697E+00	1.449E+00	7.772E+00	6.636E+00
75	7.190E+00	3.297E+00	4.282E+00	3.143E+00	2.845E+00	2.084E+00	1.519E+00	1.111E+00	7.722E+00	5.641E+00	3.537E+00	2.582E+00
90	3.958E+00	2.363E+00	2.352E+00	1.398E+00	1.563E+00	9.258E+00	8.346E+00	4.929E+00	4.242E+00	2.501E+00	1.943E+00	1.144E+00
120	1.758E+00	5.550E+00	1.045E+00	3.241E+00	6.945E+00	2.131E+00	3.709E+00	1.127E+00	1.885E+00	5.698E+00	8.636E+00	2.602E+00
150	1.134E+00	1.152E+00	6.756E+00	6.324E+00	4.488E+00	4.021E+00	2.397E+00	2.057E+00	1.218E+00	1.020E+00	5.808E+00	4.603E+00
179	9.876E+00	2.150E+00	5.882E+00	7.779E+00	3.907E+00	3.874E+00	2.087E+00	1.008E+00	1.061E+00	2.664E+00	4.858E+00	5.848E+00
DEG	2.0E-01MEV		3.0E-01MEV		4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-02MEV	
1	4.786E+05	4.802E+05	2.161E+05	2.169E+05	1.220E+05	1.230E+05	7.883E+04	7.910E+04	4.045E+04	4.059E+04	1.991E+04	1.997E+04
2	2.998E+04	3.010E+04	1.351E+04	1.359E+04	7.662E+03	7.708E+03	4.928E+03	4.958E+03	2.529E+03	2.544E+03	1.244E+03	1.252E+03
3	5.912E+03	5.962E+03	2.669E+03	2.693E+03	1.514E+03	1.527E+03	9.736E+02	9.821E+02	4.996E+02	5.039E+02	2.459E+02	2.480E+02
4	1.871E+03	1.892E+03	8.449E+02	8.543E+02	4.792E+02	4.865E+02	3.082E+02	3.116E+02	1.581E+02	1.599E+02	7.782E+01	7.868E+01
6	3.699E+02	3.757E+02	1.671E+02	1.696E+02	9.474E+01	9.621E+01	6.094E+01	6.188E+01	3.127E+01	3.175E+01	1.539E+01	1.562E+01
8	1.172E+02	1.195E+02	5.294E+01	5.395E+01	3.002E+01	3.059E+01	1.931E+01	1.968E+01	9.907E+00	1.010E+01	4.875E+00	4.969E+00
10	4.318E+01	4.916E+01	2.172E+01	2.220E+01	1.232E+01	1.249E+01	7.923E+00	8.097E+00	4.065E+00	4.155E+00	2.001E+00	2.045E+00
15	9.568E+00	9.809E+00	4.318E+00	4.430E+00	2.449E+00	2.512E+00	1.575E+00	1.616E+00	8.082E+00	8.291E+00	3.977E+00	4.080E+00
20	3.052E+00	3.129E+00	1.739E+00	1.813E+00	7.818E+00	8.013E+00	5.028E+00	5.153E+00	2.580E+00	2.644E+00	1.270E+00	1.301E+00
30	6.185E+00	6.238E+00	2.793E+00	2.817E+00	1.584E+00	1.588E+00	1.019E+00	1.028E+00	5.228E+00	5.273E+00	2.573E+00	2.595E+00
45	1.294E+00	1.224E+00	5.844E+00	5.548E+00	3.314E+00	3.146E+00	2.132E+00	2.024E+00	1.094E+00	1.038E+00	5.397E+00	5.110E+00
60	4.441E+00	3.791E+00	2.005E+00	1.712E+00	1.137E+00	9.708E+00	7.315E+00	6.244E+00	3.753E+00	3.204E+00	1.847E+00	1.577E+00
75	2.021E+00	1.475E+00	9.126E+00	6.661E+00	5.176E+00	3.777E+00	3.329E+00	2.429E+00	1.708E+00	1.246E+00	8.406E+00	6.134E+00
90	1.110E+00	6.536E+00	5.014E+00	2.951E+00	2.843E+00	1.673E+00	1.829E+00	1.076E+00	9.383E+00	5.521E+00	4.618E+00	2.717E+00
120	4.934E+00	1.882E+00	2.228E+00	6.700E+00	1.264E+00	3.798E+00	8.127E+00	2.443E+00	4.170E+00	1.253E+00	2.052E+00	6.167E+00
150	3.148E+00	2.618E+00	1.440E+00	1.177E+00	8.165E+00	6.664E+00	5.252E+00	4.283E+00	2.695E+00	2.196E+00	1.326E+00	1.081E+00
179	2.776E+00	2.021E+00	1.254E+00	4.764E+00	7.109E+00	1.818E+00	4.572E+00	9.039E+00	2.346E+00	3.442E+00	1.155E+00	1.379E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	5.731E+13	5.734E+13	2.550E+13	2.551E+13	1.439E+13	1.440E+13	6.393E+12	6.397E+12	3.603E+12	3.605E+12	2.310E+12	2.312E+12
2	3.582E+12	3.585E+12	1.594E+12	1.595E+12	8.974E+11	8.980E+11	3.996E+11	3.999E+11	2.252E+11	2.254E+11	1.444E+11	1.445E+11
3	7.078E+11	7.083E+11	3.149E+11	3.151E+11	1.773E+11	1.774E+11	7.895E+10	7.902E+10	4.450E+10	4.454E+10	2.853E+10	2.856E+10
4	2.240E+11	2.242E+11	9.967E+10	9.974E+10	5.612E+10	5.616E+10	2.499E+10	2.501E+10	1.408E+10	1.410E+10	9.031E+09	9.041E+09
6	4.430E+10	4.433E+10	1.971E+10	1.972E+10	1.110E+10	1.111E+10	4.941E+09	4.946E+09	2.785E+09	2.788E+09	1.786E+09	1.788E+09
8	1.404E+10	1.405E+10	6.245E+09	6.251E+09	3.516E+09	3.520E+09	1.566E+09	1.567E+09	8.824E+08	8.835E+08	5.658E+08	5.667E+08
10	5.760E+09	5.765E+09	2.562E+09	2.565E+09	1.443E+09	1.444E+09	6.425E+08	6.432E+08	3.621E+08	3.626E+08	2.322E+08	2.326E+08
15	1.145E+09	1.146E+09	5.094E+08	5.099E+08	2.868E+08	2.871E+08	1.277E+08	1.279E+08	7.198E+07	7.213E+07	4.616E+07	4.629E+07
20	3.655E+08	3.659E+08	1.626E+08	1.628E+08	9.156E+07	9.165E+07	4.077E+07	4.085E+07	2.298E+07	2.305E+07	1.474E+07	1.480E+07
30	7.407E+07	7.410E+07	3.295E+07	3.298E+07	1.655E+07	1.659E+07	8.262E+06	8.296E+06	4.656E+06	4.685E+06	2.986E+06	3.010E+06
45	1.550E+07	1.551E+07	6.894E+06	6.915E+06	3.882E+06	3.902E+06	1.729E+06	1.744E+06	9.742E+05	9.854E+05	6.247E+05	6.332E+05
60	5.318E+06	5.333E+06	2.366E+06	2.381E+06	1.332E+06	1.344E+06	5.932E+05	5.909E+05	3.343E+05	3.396E+05	2.144E+05	2.181E+05
75	2.420E+06	2.436E+06	1.077E+06	1.088E+06	6.132E+05	6.141E+05	2.699E+05	2.744E+05	1.521E+05	1.549E+05	9.755E+04	9.947E+04
90	1.329E+06	1.344E+06	5.914E+05	6.000E+05	3.330E+05	3.384E+05	1.483E+05	1.511E+05	8.358E+04	8.525E+04	5.359E+04	5.468E+04
120	5.909E+05	6.037E+05	2.629E+05	2.690E+05	1.480E+05	1.515E+05	6.591E+04	6.745E+04	3.714E+04	3.796E+04	2.382E+04	2.430E+04
150	3.818E+05	3.940E+05	1.699E+05	1.752E+05	9.563E+04	9.854E+04	4.259E+04	4.374E+04	2.400E+04	2.457E+04	1.539E+04	1.569E+04
179	3.324E+05	3.445E+05	1.479E+05	1.530E+05	8.326E+04	8.601E+04	3.708E+04	3.814E+04	2.090E+04	2.140E+04	1.340E+04	1.366E+04
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.183E+12	1.184E+12	5.831E+11	5.836E+11	2.616E+11	2.619E+11	1.485E+11	1.487E+11	6.723E+10	6.732E+10	3.849E+10	3.855E+10
2	7.397E+10	7.403E+10	3.645E+10	3.649E+10	1.635E+10	1.638E+10	9.285E+09	9.300E+09	4.203E+09	4.211E+09	2.406E+09	2.412E+09
3	1.461E+10	1.463E+10	7.202E+09	7.212E+09	3.231E+09	3.237E+09	1.835E+09	1.839E+09	8.304E+08	8.327E+08	4.754E+08	4.770E+08
4	4.626E+09	4.631E+09	2.280E+09	2.283E+09	1.023E+09	1.025E+09	5.807E+08	5.823E+08	2.628E+08	2.638E+08	1.505E+08	1.511E+08
6	9.146E+08	9.161E+08	4.507E+08	4.518E+08	2.022E+08	2.029E+08	1.148E+08	1.153E+08	5.197E+07	5.225E+07	2.975E+07	2.994E+07
8	2.898E+08	2.904E+08	1.428E+08	1.433E+08	6.408E+07	6.438E+07	3.638E+07	3.658E+07	1.647E+07	1.658E+07	9.428E+06	9.507E+06
10	1.189E+08	1.192E+08	5.861E+07	5.883E+07	2.629E+07	2.644E+07	1.493E+07	1.503E+07	6.757E+06	6.817E+06	3.869E+06	3.909E+06
15	2.364E+07	2.374E+07	1.165E+07	1.172E+07	5.227E+06	5.272E+06	2.968E+06	2.999E+06	1.343E+06	1.361E+06	7.691E+05	7.806E+05
20	7.547E+06	7.595E+06	3.719E+06	3.752E+06	1.669E+06	1.688E+06	9.474E+05	9.606E+05	4.288E+05	4.360E+05	2.455E+05	2.501E+05
30	1.529E+06	1.546E+06	7.536E+05	7.641E+05	3.381E+05	3.439E+05	1.920E+05	1.957E+05	8.689E+04	8.883E+04	4.975E+04	5.094E+04
45	3.200E+05	3.253E+05	1.577E+05	1.607E+05	7.074E+04	7.231E+04	4.017E+04	4.111E+04	1.818E+04	1.863E+04	1.041E+04	1.066E+04
60	1.098E+05	1.120E+05	5.411E+04	5.528E+04	2.428E+04	2.442E+04	1.378E+04	1.409E+04	6.238E+03	6.361E+03	3.572E+03	3.630E+03
75	4.996E+04	5.100E+04	2.462E+04	2.513E+04	1.105E+04	1.126E+04	6.272E+03	6.372E+03	2.839E+03	2.864E+03	1.625E+03	1.627E+03
90	2.745E+04	2.799E+04	1.353E+04	1.376E+04	6.069E+03	6.144E+03	3.446E+03	3.468E+03	1.560E+03	1.550E+03	8.929E+02	8.762E+02
120	1.220E+04	1.239E+04	6.012E+03	6.063E+03	2.697E+03	2.687E+03	1.531E+03	1.506E+03	6.931E+02	6.652E+02	3.694E+02	3.717E+02
150	7.883E+03	7.978E+03	3.885E+03	3.888E+03	1.743E+03	1.713E+03	9.895E+02	9.551E+02	4.479E+02	4.175E+02	2.564E+02	2.311E+02
179	6.863E+03	6.937E+03	3.382E+03	3.375E+03	1.517E+03	1.483E+03	8.615E+02	8.256E+02	3.899E+02	3.594E+02	2.233E+02	1.982E+02
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	2.566E+10	2.510E+10	1.322E+10	1.324E+10	6.745E+09	6.749E+09	3.235E+09	3.242E+09	1.936E+09	1.941E+09	9.567E+08	9.595E+08
2	1.567E+09	1.571E+09	8.262E+08	8.288E+08	4.241E+08	4.257E+08	2.022E+08	2.030E+08	1.210E+08	1.216E+08	5.981E+07	6.011E+07
3	3.096E+08	3.107E+08	1.633E+08	1.640E+08	8.380E+07	8.423E+07	3.995E+07	4.019E+07	2.392E+07	2.407E+07	1.182E+07	1.190E+07
4	9.798E+07	9.848E+07	5.167E+07	5.197E+07	2.652E+07	2.670E+07	1.264E+07	1.274E+07	7.570E+06	7.634E+06	3.740E+06	3.775E+06
6	1.937E+07	1.951E+07	1.022E+07	1.030E+07	5.245E+06	5.295E+06	2.500E+06	2.528E+06	1.497E+06	1.515E+06	7.395E+05	7.495E+05
8	6.139E+06	6.196E+06	3.237E+06	3.273E+06	1.662E+06	1.683E+06	7.922E+05	8.035E+05	4.743E+05	4.816E+05	2.343E+05	2.383E+05
10	2.519E+06	2.548E+06	1.328E+06	1.346E+06	6.819E+05	6.922E+05	3.251E+05	3.307E+05	1.946E+05	1.982E+05	9.616E+04	9.809E+04
15	5.008E+05	5.090E+05	2.641E+05	2.690E+05	1.356E+05	1.394E+05	6.462E+04	6.610E+04	3.869E+04	3.962E+04	1.911E+04	1.961E+04
20	1.599E+05	1.631E+05	8.430E+04	8.620E+04	4.327E+04	4.434E+04	2.063E+04	2.118E+04	1.235E+04	1.269E+04	6.102E+03	6.276E+03
30	3.239E+04	3.321E+04	1.708E+04	1.753E+04	8.769E+03	9.006E+03	4.180E+03	4.292E+03	2.502E+03	2.568E+03	1.236E+03	1.266E+03
45	6.777E+03	6.939E+03	3.574E+03	3.651E+03	1.835E+03	1.877E+03	8.744E+02	8.839E+02	5.236E+02	5.259E+02	2.587E+02	2.572E+02
60	2.326E+03	2.355E+03	1.226E+03	1.232E+03	6.296E+02	6.254E+02	3.001E+02	2.930E+02	1.797E+02	1.728E+02	8.877E+01	8.342E+01
75	1.058E+03	1.051E+03	5.581E+02	5.461E+02	2.685E+02	2.743E+02	1.366E+02	1.267E+02	8.177E+01	7.388E+01	4.040E+01	3.496E+01
90	5.814E+02	5.833E+02	3.066E+02	2.899E+02	1.574E+02	1.438E+02	7.503E+01	6.520E+01	4.492E+01	3.740E+01	2.219E+01	1.728E+01
120	2.584E+02	2.364E+02	1.363E+02	1.191E+02	6.995E+01	5.739E+01	3.335E+01	2.488E+01	1.996E+01	1.370E+01	9.864E+00	5.903E+00
150	1.670E+02	1.456E+02	8.806E+01	7.205E+01	4.520E+01	3.379E+01	2.155E+01	1.402E+01	1.290E+01	7.398E+00	6.374E+00	2.931E+00
179	1.454E+02	1.244E+02	7.666E+01	6.112E+01	3.935E+01	2.844E+01	1.876E+01	1.154E+01	1.123E+01	5.967E+00	5.549E+00	2.265E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	5.869E+08	5.887E+08	4.038E+08	4.051E+08	2.309E+08	2.317E+08	1.278E+08	1.282E+08	6.466E+07	6.488E+07	3.949E+07	3.963E+07
2	3.669E+07	3.689E+07	2.524E+07	2.538E+07	1.444E+07	1.452E+07	7.987E+06	8.036E+06	4.042E+06	4.067E+06	2.469E+06	2.484E+06
3	7.249E+06	7.305E+06	4.987E+06	5.028E+06	2.852E+06	2.878E+06	1.578E+06	1.592E+06	7.985E+05	8.057E+05	4.877E+05	4.922E+05
4	2.294E+06	2.317E+06	1.579E+06	1.595E+06	9.028E+05	9.126E+05	4.995E+05	5.051E+05	2.528E+05	2.557E+05	1.544E+05	1.562E+05
6	4.537E+05	4.601E+05	3.121E+05	3.167E+05	1.785E+05	1.812E+05	9.876E+04	1.003E+05	4.998E+04	5.079E+04	3.053E+04	3.102E+04
8	1.437E+05	1.463E+05	9.891E+04	1.007E+05	5.656E+04	5.765E+04	3.129E+04	3.191E+04	1.584E+04	1.615E+04	9.672E+03	9.869E+03
10	5.899E+04	6.023E+04	4.059E+04	4.147E+04	2.321E+04	2.373E+04	1.284E+04	1.314E+04	6.498E+03	6.650E+03	3.967E+03	4.063E+03
15	1.173E+04	1.204E+04	8.068E+03	8.287E+03	4.614E+03	4.742E+03	2.553E+03	2.625E+03	1.292E+03	1.329E+03	7.890E+02	8.116E+02
20	3.743E+03	3.851E+03	2.576E+03	2.650E+03	1.473E+03	1.516E+03	8.149E+02	8.386E+02	4.124E+02	4.244E+02	2.519E+02	2.592E+02
30	7.588E+02	7.755E+02	5.219E+02	5.329E+02	2.984E+02	3.042E+02	1.651E+02	1.680E+02	8.356E+01	8.490E+01	5.104E+01	5.182E+01
45	1.587E+02	1.566E+02	1.092E+02	1.072E+02	6.244E+01	6.084E+01	3.455E+01	3.345E+01	1.748E+01	1.684E+01	1.068E+01	1.026E+01
60	5.446E+01	5.032E+01	3.747E+01	3.419E+01	2.143E+01	1.923E+01	1.186E+01	1.049E+01	5.999E+00	5.248E+00	3.664E+00	3.188E+00
75	2.478E+01	2.080E+01	1.705E+01	1.399E+01	9.751E+00	7.759E+00	5.395E+00	4.182E+00	2.730E+00	2.072E+00	1.668E+00	1.253E+00
90	1.361E+01	1.009E+01	9.367E+00	6.687E+00	5.357E+00	3.633E+00	2.964E+00	1.923E+00	1.500E+00	9.348E-01	9.161E-01	5.633E-01
120	6.051E+00	3.254E+00	4.163E+00	2.057E+00	2.381E+00	1.040E+00	1.317E+00	5.131E-01	6.666E-01	2.350E-01	4.071E-01	1.366E-01
150	3.910E+00	1.492E+00	2.690E+00	8.753E-01	1.538E+00	3.874E-01	8.512E-01	1.629E-01	4.307E-01	6.203E-02	2.631E-01	3.210E-02
179	3.404E+00	1.101E+00	2.342E+00	6.150E-01	1.339E+00	2.441E-01	7.411E-01	8.712E-02	3.750E-01	2.490E-02	2.291E-01	9.763E-03
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	1.937E+07	1.944E+07	1.154E+07	1.158E+07	7.665E+06	7.692E+06	4.093E+06	4.108E+06	2.081E+06	2.088F+06	9.530F+05	9.565E+05
2	1.211E+06	1.219E+06	7.212E+05	7.259E+05	4.791E+05	4.822E+05	2.559E+05	2.575E+05	1.301E+05	1.309E+05	5.957E+04	5.996E+04
3	2.393E+05	2.415E+05	1.425E+05	1.438E+05	9.466E+04	9.554E+04	5.056E+04	5.102E+04	2.570E+04	2.594F+04	1.177E+04	1.188E+04
4	7.573E+04	7.662E+04	4.510E+04	4.564E+04	2.966E+04	3.032E+04	1.600E+04	1.619E+04	8.134F+03	8.231F+03	3.726F+03	3.770E+03
6	1.497E+04	1.522E+04	8.919E+03	9.066E+03	5.925E+03	6.023E+03	3.164E+03	3.217E+03	1.608E+03	1.635E+03	7.367E+02	7.489E+02
8	4.745E+03	4.842E+03	2.826E+03	2.884E+03	1.877E+03	1.919E+03	1.003E+03	1.023E+03	5.096E+02	5.201E+02	2.334E+02	2.382E+02
10	1.947E+03	1.993E+03	1.160E+03	1.187E+03	7.703E+02	7.887E+02	4.114E+02	4.212E+02	2.091E+02	2.141E+02	9.579E+01	9.808E+01
15	3.870E+02	3.982E+02	2.305E+02	2.372E+02	1.531E+02	1.575E+02	8.178E+01	8.414E+01	4.157E+01	4.277E+01	1.904F+01	1.959E+01
20	1.236E+02	1.271E+02	7.359E+01	7.572E+01	4.889E+01	5.030E+01	2.611E+01	2.686E+01	1.327E+01	1.365E+01	6.079E+00	6.254E+00
30	2.504E+01	2.541E+01	1.491E+01	1.513E+01	9.905E+00	1.005E+01	5.290E+00	5.366E+00	2.689E+00	2.727E+00	1.232E+00	1.249E+00
45	5.238E+00	5.023E+00	3.120E+00	2.989E+00	2.073E+00	1.985E+00	1.107E+00	1.059E+00	5.626E+00	5.384E-01	2.577E-01	2.466E-01
60	1.798E+00	1.557E+00	1.071E+00	9.254E-01	7.112E-01	6.141E-01	3.798E-01	3.277E-01	1.931E-01	1.665E-01	8.843E-02	7.623E-02
75	8.180E-01	6.093E-01	4.872E-01	3.615E-01	3.236E-01	2.397E-01	1.728E-01	1.278E-01	8.786E-02	6.490F-02	4.024F-02	2.971E-02
90	4.494E-01	2.721E-01	2.676E-01	1.610E-01	1.778E-01	1.046E-01	9.495E-02	5.677E-02	4.827E-02	2.880F-02	2.211F-02	1.318E-02
120	1.997E-01	6.400E-02	1.190E-01	3.738E-02	7.902E-02	2.458E-02	4.220E-02	1.300E-02	2.145E-02	6.574E-03	9.826F-03	3.002E-03
150	1.291E-01	1.327E-02	7.686E-02	7.292E-03	5.106E-02	4.639E-03	2.727E-02	2.375E-03	1.386E-02	1.177E-03	6.349E-03	5.315E-04
179	1.124E-01	2.455E-03	6.692E-02	8.881E-04	4.446E-02	3.967E-04	2.374E-02	1.151E-04	1.207E-02	3.043E-05	5.528F-03	6.682E-06
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	5.445E+05	5.465E+05	2.459E+05	2.468E+05	1.395E+05	1.400E+05	8.969E+04	9.002E+04	4.602F+04	4.619F+04	2.265F+04	2.273E+04
2	3.404E+04	3.426E+04	1.537E+04	1.547E+04	8.717E+03	8.774E+03	5.607E+03	5.643E+03	2.877E+03	2.896E+03	1.416F+03	1.425E+03
3	6.725E+03	6.788E+03	3.037E+03	3.065E+03	1.722E+03	1.748E+03	1.108E+03	1.118E+03	5.684E+02	5.737E+02	2.797E+02	2.823E+02
4	2.129E+03	2.154E+03	9.613E+02	9.728E+02	5.452E+02	5.517E+02	3.506E+02	3.548E+02	1.799E+02	1.821F+02	8.854F+01	8.959E+01
6	4.209E+02	4.279E+02	1.901E+02	1.932E+02	1.078E+02	1.096E+02	6.933E+01	7.048E+01	3.558E+01	3.617E+01	1.751E+01	1.780E+01
8	1.334E+02	1.361E+02	6.023E+01	6.147E+01	3.416E+01	3.486E+01	2.197E+01	2.242E+01	1.127E+01	1.151F+01	5.547E+00	5.622E+00
10	5.473E+01	5.604E+01	2.472E+01	2.531E+01	1.402E+01	1.435E+01	9.015E+00	9.231E+00	4.626E+00	4.736E+00	2.276E+00	2.331E+00
15	1.088E+01	1.119E+01	4.913E+00	5.055E+00	2.786E+00	2.867E+00	1.792E+00	1.844E+00	9.195E+00	9.461E-01	4.525E-01	4.656E-01
20	3.473E+00	3.573E+00	1.568E+00	1.614E+00	8.895E-01	9.152E-01	5.721E-01	5.886E-01	2.935E-01	3.020E-01	1.445E-01	1.486E-01
30	7.037E-01	7.137E-01	3.178E-01	3.223E-01	1.802E-01	1.828E-01	1.159E-01	1.176E-01	5.948E-02	6.033F-02	2.927F-02	2.969E-02
45	1.472E-01	1.409E-01	6.650E-02	6.362E-02	3.771E-02	3.608E-02	2.425E-02	2.320E-02	1.244E-02	1.191E-02	6.124F-03	5.859E-03
60	5.052E-02	4.355E-02	2.282E-02	1.967E-02	1.294E-02	1.115E-02	8.323E-03	7.172E-03	4.270E-03	3.680E-03	2.102F-03	1.811E-03
75	2.299E-02	1.697E-02	1.038E-02	7.663E-03	5.889E-03	4.345E-03	3.787E-03	2.795E-03	1.943E-03	1.434F-03	9.564F-04	7.057E-04
90	1.263E-02	7.528E-03	5.704E-03	3.399E-03	3.235E-03	1.927E-03	2.081E-03	1.240E-03	1.068E-03	6.360F-04	5.254F-04	3.130E-04
120	5.614E-03	1.713E-03	2.535E-03	7.731E-04	1.438E-03	4.383E-04	9.247E-04	2.818E-04	4.745E-04	1.446F-04	2.335F-04	7.116E-05
150	3.628E-03	3.021E-04	1.638E-03	1.359E-04	9.290E-04	7.696E-05	5.975E-04	4.946E-05	3.066E-04	2.537F-05	1.509F-04	1.248E-05
179	3.158E-03	2.311E-06	1.426E-03	5.454E-07	8.089E-04	2.085E-07	5.202E-04	1.038E-07	2.669E-04	3.959F-08	1.314F-04	1.588E-08

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	6.470E+13	6.474E+13	2.878E+13	2.880E+13	1.621E+13	1.622E+13	7.217E+12	7.221E+12	4.067E+12	4.070E+12	2.608E+12	2.610E+12
2	4.044E+12	4.047E+12	1.799E+12	1.800E+12	1.013E+12	1.014E+12	4.511E+11	4.514E+11	2.542E+11	2.544E+11	1.630E+11	1.632E+11
3	7.991E+11	7.996E+11	3.555E+11	3.557E+11	2.002E+11	2.003E+11	8.913E+10	8.921E+10	5.023E+10	5.028E+10	3.221E+10	3.224E+10
4	2.529E+11	2.531E+11	1.125E+11	1.126E+11	6.335E+10	6.340E+10	2.821E+10	2.824E+10	1.590E+10	1.592E+10	1.020E+10	1.021E+10
6	5.001E+10	5.004E+10	2.225E+10	2.227E+10	1.253E+10	1.254E+10	5.578E+09	5.584E+09	3.144E+09	3.147E+09	2.016E+09	2.019E+09
8	1.585E+10	1.586E+10	7.050E+09	7.056E+09	3.949E+09	3.974E+09	1.768E+09	1.770E+09	9.962E+08	9.974E+08	6.388E+08	6.397E+08
10	6.502E+09	6.508E+09	2.893E+09	2.896E+09	1.629E+09	1.631E+09	7.253E+08	7.262E+08	4.088E+08	4.093E+08	2.621E+08	2.626E+08
15	1.293E+09	1.294E+09	5.751E+08	5.757E+08	3.238E+08	3.241E+08	1.442E+08	1.444E+08	8.126E+07	8.141E+07	5.211E+07	5.224E+07
30	4.127E+08	4.132E+08	1.836E+08	1.838E+08	1.034E+08	1.035E+08	4.603E+07	4.610E+07	2.594E+07	2.601E+07	1.663E+07	1.670E+07
80	8.361E+07	8.367E+07	3.720E+07	3.722E+07	2.094E+07	2.097E+07	9.327E+06	9.361E+06	5.256E+06	5.287E+06	3.371E+06	3.397E+06
45	1.749E+07	1.750E+07	7.783E+06	7.801E+06	4.382E+06	4.402E+06	1.951E+06	1.968E+06	1.100E+06	1.113E+06	7.052E+05	7.151E+05
60	6.008E+06	6.017E+06	2.671E+06	2.687E+06	1.504E+06	1.517E+06	6.696E+05	6.786E+05	3.774E+05	3.762E+05	2.470E+05	2.465E+05
75	2.732E+06	2.748E+06	1.215E+06	1.228E+06	6.843E+05	6.935E+05	3.047E+05	3.101E+05	1.717E+05	1.752E+05	1.101E+05	1.125E+05
90	1.501E+06	1.517E+06	6.677E+05	6.777E+05	3.759E+05	3.836E+05	1.674E+05	1.709E+05	9.435E+04	9.645E+04	6.050E+04	6.188E+04
120	6.670E+05	6.828E+05	2.967E+05	3.044E+05	1.671E+05	1.716E+05	7.440E+04	7.640E+04	4.193E+04	4.301E+04	2.689E+04	2.753E+04
150	4.310E+05	4.466E+05	1.917E+05	1.986E+05	1.080E+05	1.117E+05	4.808E+04	4.961E+04	2.710E+04	2.787E+04	1.737E+04	1.780E+04
179	3.753E+05	3.907E+05	1.669E+05	1.736E+05	9.400E+04	9.759E+04	4.186E+04	4.328E+04	2.359E+04	2.429E+04	1.513E+04	1.551E+04
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.336E+12	1.337E+12	6.583E+11	6.588E+11	2.954E+11	2.956E+11	1.677E+11	1.679E+11	7.590E+10	7.600E+10	4.346E+10	4.352E+10
2	8.350E+10	8.358E+10	4.115E+10	4.119E+10	1.846E+10	1.849E+10	1.048E+10	1.050E+10	4.744E+09	4.754E+09	2.716E+09	2.723E+09
3	1.650E+10	1.652E+10	8.130E+09	8.141E+09	3.648E+09	3.654E+09	2.071E+09	2.076E+09	9.374E+08	9.401E+08	5.367E+08	5.385E+08
4	5.222E+09	5.228E+09	2.573E+09	2.578E+09	1.155E+09	1.157E+09	6.555E+08	6.574E+08	2.967E+08	2.978E+08	1.699E+08	1.706E+08
6	1.033E+09	1.034E+09	5.089E+08	5.100E+08	2.263E+08	2.290E+08	1.296E+08	1.302E+08	5.867E+07	5.899E+07	3.359E+07	3.381E+07
8	3.272E+08	3.278E+08	1.612E+08	1.617E+08	7.234E+07	7.266E+07	4.107E+07	4.130E+07	1.859E+07	1.873E+07	1.064E+07	1.074E+07
10	1.343E+08	1.346E+08	6.616E+07	6.641E+07	2.968E+07	2.985E+07	1.685E+07	1.697E+07	7.628E+06	7.698E+06	4.367E+06	4.415E+06
15	2.669E+07	2.680E+07	1.315E+07	1.323E+07	5.901E+06	5.953E+06	3.350E+06	3.387E+06	1.516E+06	1.537E+06	8.682E+05	8.819E+05
20	8.520E+06	8.573E+06	4.199E+06	4.236E+06	1.894E+06	1.907E+06	1.070E+06	1.085E+06	4.841E+05	4.927E+05	2.772E+05	2.828E+05
30	1.725E+06	1.745E+06	8.508E+05	8.630E+05	3.817E+05	3.887E+05	2.167E+05	2.212E+05	9.809E+04	1.005E+05	5.616E+04	5.763E+04
45	3.611E+05	3.675E+05	1.780E+05	1.817E+05	7.986E+04	8.179E+04	4.534E+04	4.652E+04	2.052E+04	2.109E+04	1.175E+04	1.208E+04
60	1.239E+05	1.266E+05	6.108E+04	6.254E+04	2.740E+04	2.810E+04	1.556E+04	1.595E+04	7.042E+03	7.207E+03	4.032E+03	4.115E+03
75	5.641E+04	5.771E+04	2.780E+04	2.845E+04	1.247E+04	1.275E+04	7.081E+03	7.220E+03	3.205E+03	3.247E+03	1.835E+03	1.846E+03
90	3.099E+04	3.169E+04	1.527E+04	1.559E+04	6.851E+03	6.962E+03	3.890E+03	3.931E+03	1.761E+03	1.758E+03	1.008E+03	9.939E+02
120	1.377E+04	1.404E+04	6.787E+03	6.874E+03	3.045E+03	3.047E+03	1.729E+03	1.708E+03	7.825E+02	7.545E+02	4.480E+02	4.217E+02
150	8.899E+03	9.051E+03	3.885E+03	4.111E+03	1.968E+03	1.943E+03	1.117E+03	1.083E+03	5.056E+02	4.735E+02	2.895E+02	2.621E+02
179	7.748E+03	7.873E+03	3.818E+03	3.830E+03	1.713E+03	1.683E+03	9.726E+02	9.366E+02	4.402E+02	4.077E+02	2.520E+02	2.248E+02
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	2.829E+10	2.834E+10	1.492E+10	1.495E+10	7.660E+09	7.676E+09	3.652E+09	3.661E+09	2.186E+09	2.192E+09	1.080E+09	1.083E+09
2	1.769E+09	1.774E+09	9.328E+08	9.358E+08	4.768E+08	4.806E+08	2.283E+08	2.293E+08	1.366E+08	1.373E+08	6.751E+07	6.788E+07
3	3.495E+08	3.508E+08	1.843E+08	1.851E+08	9.460E+07	9.511E+07	4.510E+07	4.538E+07	2.700E+07	2.719E+07	1.334E+07	1.344E+07
4	1.106E+08	1.112E+08	5.833E+07	5.868E+07	2.994E+07	3.015E+07	1.427E+07	1.439E+07	8.546E+06	8.622E+06	4.222E+06	4.264E+06
6	2.187E+07	2.203E+07	1.153E+07	1.164E+07	5.921E+06	5.981E+06	2.823E+06	2.856E+06	1.690E+06	1.712E+06	8.349E+05	8.468E+05
8	6.939E+06	6.998E+06	3.655E+06	3.697E+06	1.876E+06	1.901E+06	8.943E+05	9.079E+05	5.354E+05	5.442E+05	2.645E+05	2.693E+05
10	2.844E+06	2.878E+06	1.570E+06	1.521E+06	7.698E+05	7.822E+05	3.670E+05	3.737E+05	2.197E+05	2.240E+05	1.086E+05	1.109E+05
15	5.653E+05	5.752E+05	2.981E+05	3.040E+05	1.530E+05	1.564E+05	7.295E+04	7.476E+04	4.367E+04	4.482E+04	2.158E+04	2.219E+04
20	1.805E+05	1.844E+05	9.517E+04	9.749E+04	4.885E+04	5.016E+04	2.329E+04	2.396E+04	1.394E+04	1.436E+04	6.889E+03	7.106E+03
30	3.657E+04	3.758E+04	1.928E+04	1.985E+04	8.899E+03	9.102E+03	4.719E+03	4.864E+03	2.825E+03	2.910E+03	1.396E+03	1.436E+03
45	7.651E+03	7.861E+03	4.355E+03	4.139E+03	2.071E+03	2.117E+03	9.874E+02	1.003E+03	5.911E+02	5.970E+02	2.921E+02	2.922E+02
60	2.625E+03	2.670E+03	1.385E+03	1.398E+03	7.107E+02	7.099E+02	3.388E+02	3.328E+02	2.028E+02	1.964E+02	1.002E+02	9.487E+01
75	1.195E+03	1.193E+03	6.301E+02	6.198E+02	3.234E+02	3.115E+02	1.542E+02	1.439E+02	9.231E+01	8.392E+01	4.561E+01	3.979E+01
90	6.563E+02	6.392E+02	3.461E+02	3.291E+02	1.777E+02	1.633E+02	8.470E+01	7.410E+01	5.071E+01	4.254E+01	2.505E+01	1.967E+01
120	2.917E+02	2.682E+02	1.538E+02	1.352E+02	7.867E+01	6.515E+01	3.765E+01	2.825E+01	2.254E+01	1.557E+01	1.114E+01	6.715E+00
150	1.885E+02	1.651E+02	9.941E+01	8.171E+01	5.103E+01	3.832E+01	2.433E+01	1.590E+01	1.456E+01	8.392E+00	7.195E+00	3.326E+00
179	1.641E+02	1.411E+02	8.655E+01	6.929E+01	4.43E+01	2.313E+01	2.118E+01	1.308E+01	1.268E+01	6.762E+00	6.264E+00	2.567E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	6.626E+08	6.647E+08	4.559E+08	4.574E+08	2.607E+08	2.616E+08	1.442E+08	1.448E+08	7.299E+07	7.326E+07	4.458E+07	4.475E+07
2	4.142E+07	4.165E+07	2.850E+07	2.867E+07	1.630E+07	1.640E+07	9.016E+06	9.074E+06	4.563E+06	4.593E+06	2.787E+06	2.805E+06
3	8.183E+06	8.250E+06	5.630E+06	5.679E+06	3.220E+06	3.249E+06	1.781E+06	1.798E+06	9.015E+05	9.101E+05	5.506E+05	5.559E+05
4	2.590E+06	2.618E+06	1.782E+06	1.802E+06	1.019E+06	1.031E+06	5.639E+05	5.706E+05	2.853E+05	2.888E+05	1.743E+05	1.764E+05
6	5.122E+05	5.199E+05	3.524E+05	3.579E+05	2.015E+05	2.048E+05	1.115E+05	1.134E+05	5.642E+04	5.740E+04	3.446E+04	3.506E+04
8	1.623E+05	1.654E+05	1.117E+05	1.139E+05	6.385E+04	6.517E+04	3.533E+04	3.608E+04	1.788E+04	1.826E+04	1.092E+04	1.116E+04
10	6.659E+04	6.810E+04	4.582E+04	4.689E+04	2.620E+04	2.684E+04	1.450E+04	1.486E+04	7.336E+03	7.522E+03	4.481E+03	4.595E+03
15	1.324E+04	1.362E+04	9.108E+03	9.380E+03	5.209E+03	5.368E+03	2.882E+03	2.971E+03	1.458E+03	1.504E+03	8.907E+02	9.189E+02
20	4.226E+03	4.362E+03	2.908E+03	3.002E+03	1.663E+03	1.717E+03	9.200E+02	9.502E+02	4.655E+02	4.809E+02	2.843E+02	2.937E+02
30	8.563E+02	8.796E+02	5.892E+02	6.045E+02	3.369E+02	3.451E+02	1.864E+02	1.907E+02	9.433E+01	9.637E+01	5.762E+01	5.883E+01
45	1.792E+02	1.780E+02	1.233E+02	1.218E+02	7.049E+01	6.917E+01	3.900E+01	3.804E+01	1.974E+01	1.915E+01	1.205E+01	1.167E+01
60	6.148E+01	5.725E+01	4.230E+01	3.892E+01	2.419E+01	2.190E+01	1.338E+01	1.195E+01	6.773E+00	5.980E+00	4.137E+00	3.634E+00
75	2.798E+01	2.369E+01	1.925E+01	1.594E+01	1.101E+01	8.845E+00	6.091E+00	4.770E+00	3.082E+00	2.364E+00	1.883E+00	1.430E+00
90	1.537E+01	1.149E+01	1.057E+01	7.623E+00	6.047E+00	4.145E+00	3.346E+00	2.195E+00	1.693E+00	1.072E+00	1.034E+00	6.436E-01
120	6.831E+00	3.704E+00	4.700E+00	2.343E+00	2.688E+00	1.146E+00	1.487E+00	5.858E-01	7.525E+00	2.687E-01	4.596E-01	1.562E-01
150	4.414E+00	1.694E+00	3.037E+00	9.943E-01	1.737E+00	4.405E-01	9.609E+01	1.854E-01	4.862E+01	7.074E-02	2.970E-01	3.665E-02
179	3.843E+00	1.248E+00	2.644E+00	6.968E-01	1.512E+00	2.777E-01	8.366E-01	9.871E-02	4.233E-01	2.821E-02	2.586E-01	1.106E-02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	2.187E+07	2.195E+07	1.303E+07	1.307E+07	8.653E+06	8.685E+06	4.621E+06	4.639E+06	2.349E+06	2.358E+06	1.076E+06	1.080E+06
2	1.367E+06	1.376E+06	8.142E+05	8.197E+05	5.409E+05	5.446E+05	2.889E+05	2.908E+05	1.468E+05	1.478E+05	6.725E+04	6.771E+04
3	2.701E+05	2.727E+05	1.609E+05	1.624E+05	1.069E+05	1.079E+05	5.707E+04	5.763E+04	2.901E+04	2.930E+04	1.329E+04	1.342E+04
4	8.548E+04	8.657E+04	5.092E+04	5.156E+04	3.383E+04	3.455E+04	1.806E+04	1.829E+04	9.183E+03	9.299E+03	4.206E+03	4.259E+03
6	1.690E+04	1.720E+04	1.007E+04	1.025E+04	6.688E+03	6.807E+03	3.572E+03	3.635E+03	1.816E+03	1.848E+03	8.316E+02	8.464E+02
8	5.356E+03	5.475E+03	3.190E+03	3.261E+03	2.119E+03	2.166E+03	1.132E+03	1.157E+03	5.753E+02	5.881E+02	2.635E+02	2.694E+02
10	2.198E+03	2.255E+03	1.309E+03	1.343E+03	8.696E+02	8.951E+02	4.644E+02	4.765E+02	2.361E+02	2.422E+02	1.081E+02	1.109E+02
15	4.369E+02	4.508E+02	2.602E+02	2.685E+02	1.729E+02	1.784E+02	9.233E+01	9.527E+01	4.693E+01	4.843E+01	2.150E+01	2.218E+01
20	1.395E+02	1.441E+02	8.307E+01	8.581E+01	5.519E+01	5.700E+01	2.947E+01	3.044E+01	1.498E+01	1.547E+01	6.862E+00	7.088E+00
30	2.826E+01	2.884E+01	1.683E+01	1.717E+01	1.118E+01	1.141E+01	5.972E+00	6.092E+00	3.036E+00	3.096E+00	1.390E+00	1.418E+00
45	5.914E+00	5.715E+00	3.522E+00	3.401E+00	2.340E+00	2.258E+00	1.250E+00	1.205E+00	6.352E-01	6.126E-01	2.909E-01	2.806E-01
60	2.029E+00	1.774E+00	1.209E+00	1.055E+00	8.029E-01	7.000E-01	4.288E-01	3.735E-01	2.180E-01	1.899E-01	9.983E-02	8.689E-02
75	9.235E-01	6.954E-01	5.500E-01	4.127E-01	3.654E-01	2.737E-01	1.951E-01	1.459E-01	9.919E-02	7.409E-02	4.543E-02	3.392E-02
90	5.073E-01	3.110E-01	3.021E-01	1.840E-01	2.007E-01	1.219E-01	1.072E-01	6.489E-02	5.449E-02	3.292E-02	2.496E-02	1.507E-02
120	2.255E-01	7.324E-02	1.343E-01	4.278E-02	8.921E-02	2.814E-02	4.764E-02	1.489E-02	2.422E-02	7.577E-03	1.109E-02	3.437E-03
150	1.457E-01	1.517E-02	8.677E-02	8.346E-03	5.764E-02	5.311E-03	3.078E-02	2.720E-03	1.565E-02	1.349E-03	7.167E-03	6.091E-04
179	1.268E-01	2.781E-03	7.555E-02	1.006E-03	5.019E-02	4.465E-04	2.680E-02	1.304E-04	1.362E-02	3.449E-05	6.240E-03	7.578E-06
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	6.147E+05	6.176E+05	2.776E+05	2.787E+05	1.574E+05	1.580E+05	1.013E+05	1.016E+05	5.196E+04	5.215E+04	2.557E+04	2.567E+04
2	3.843E+04	3.869E+04	1.735E+04	1.747E+04	9.841E+03	9.908E+03	6.330E+03	6.373E+03	3.248E+03	3.270E+03	1.598E+03	1.609E+03
3	7.592E+03	7.667E+03	3.429E+03	3.462E+03	1.944E+03	1.964E+03	1.251E+03	1.263E+03	6.417E+02	6.480E+02	3.158E+02	3.189E+02
4	2.403E+03	2.433E+03	1.085E+03	1.099E+03	6.154E+02	6.232E+02	3.958E+02	4.008E+02	2.031E+02	2.057E+02	9.995E+01	1.012E+02
6	4.752E+02	4.836E+02	2.146E+02	2.184E+02	1.217E+02	1.239E+02	7.827E+01	7.966E+01	4.016E+01	4.084E+01	1.976E+01	2.012E+01
8	1.506E+02	1.539E+02	6.799E+01	6.951E+01	3.856E+01	3.942E+01	2.480E+01	2.535E+01	1.273E+01	1.301E+01	6.262E+00	6.402E+00
10	6.178E+01	6.338E+01	2.790E+01	2.863E+01	1.582E+01	1.633E+01	1.018E+01	1.044E+01	5.222E+00	5.357E+00	2.570E+00	2.636E+00
15	1.228E+01	1.267E+01	5.546E+00	5.723E+00	3.145E+00	3.246E+00	2.023E+00	2.088E+00	1.038E+00	1.071E+00	5.108E+00	5.271E+00
20	3.921E+00	4.050E+00	1.771E+00	1.829E+00	1.004E+00	1.037E+00	6.458E-01	6.671E-01	3.314E-01	3.423E-01	1.631E-01	1.684E-01
30	7.944E-01	8.103E-01	3.588E-01	3.659E-01	2.035E-01	2.075E-01	1.309E-01	1.335E-01	6.715E-02	6.848E-02	3.304E-02	3.370E-02
45	1.662E-01	1.603E-01	7.507E-02	7.239E-02	4.257E-02	4.105E-02	2.738E-02	2.640E-02	1.405E-02	1.355E-02	6.914E-03	6.667E-03
60	5.704E-02	4.964E-02	2.576E-02	2.242E-02	1.461E-02	1.271E-02	9.395E-03	8.176E-03	4.821E-03	4.195E-03	2.372E-03	2.064E-03
75	2.596E-02	1.937E-02	1.172E-02	8.748E-03	6.648E-03	4.961E-03	4.276E-03	3.191E-03	2.194E-03	1.637E-03	1.080E-03	8.056E-04
90	1.426E-02	8.605E-03	6.440E-03	3.885E-03	3.652E-03	2.203E-03	2.364E-03	1.417E-03	1.205E-03	7.270E-04	5.931E-04	3.577E-04
120	6.338E-03	1.962E-03	2.862E-03	8.852E-04	1.623E-03	5.019E-04	1.044E-03	3.227E-04	5.357E-04	1.656E-04	2.636E-04	8.148E-05
150	4.095E-03	3.462E-04	1.849E-03	1.558E-04	1.049E-03	8.831E-05	6.746E-04	5.670E-05	3.641E-04	2.988E-05	1.703E-04	1.430E-05
179	3.565E-03	2.622E-06	1.610E-03	6.198E-07	9.131E-04	2.373E-07	5.873E-04	1.182E-07	3.014E-04	4.520E-08	1.483E-04	1.817E-08

AR (18)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	7.253E+13	7.258E+13	3.227E+13	3.229E+13	1.817E+13	1.818E+13	8.091E+12	8.096E+12	4.560E+12	4.563E+12	2.924E+12	2.926E+12
2	4.534E+12	4.537E+12	2.017E+12	2.018E+12	1.136E+12	1.136E+12	5.058E+11	5.061E+11	2.850E+11	2.853E+11	1.828E+11	1.829E+11
3	8.958E+11	8.964E+11	3.985E+11	3.988E+11	2.244E+11	2.246E+11	9.993E+10	1.000E+11	5.632E+10	5.637E+10	3.611E+10	3.615E+10
4	2.836E+11	2.837E+11	1.261E+11	1.262E+11	7.103E+10	7.108E+10	3.163E+10	3.166E+10	1.783E+10	1.784E+10	1.143E+10	1.144E+10
6	5.607E+10	5.611E+10	2.494E+10	2.496E+10	1.404E+10	1.406E+10	6.254E+09	6.261E+09	3.525E+09	3.529E+09	2.260E+09	2.263E+09
8	1.777E+10	1.778E+10	7.903E+09	7.911E+09	4.450E+09	4.455E+09	1.982E+09	1.984E+09	1.117E+09	1.118E+09	7.161E+08	7.171E+08
10	7.290E+09	7.296E+09	3.243E+09	3.247E+09	1.826E+09	1.828E+09	8.132E+08	8.141E+08	4.583E+08	4.589E+08	2.939E+08	2.943E+08
15	1.449E+09	1.451E+09	6.447E+08	6.455E+08	3.630E+08	3.634E+08	1.616E+08	1.618E+08	9.110E+07	9.125E+07	5.842E+07	5.856E+07
20	4.626E+08	4.633E+08	2.058E+08	2.060E+08	1.159E+08	1.160E+08	5.160E+07	5.168E+07	2.908E+07	2.916E+07	1.865E+07	1.872E+07
30	9.374E+07	9.382E+07	4.170E+07	4.172E+07	2.348E+07	2.351E+07	1.046E+07	1.049E+07	5.893E+06	5.925E+06	3.779E+06	3.807E+06
45	1.961E+07	1.961E+07	8.726E+06	8.741E+06	4.913E+06	4.933E+06	2.188E+06	2.206E+06	1.233E+06	1.247E+06	7.906E+05	8.019E+05
60	6.730E+06	6.740E+06	2.994E+06	3.010E+06	1.666E+06	1.700E+06	7.507E+05	7.609E+05	4.231E+05	4.303E+05	2.713E+05	2.766E+05
75	3.063E+06	3.079E+06	1.363E+06	1.376E+06	7.672E+05	7.776E+05	3.416E+05	3.479E+05	1.925E+05	1.966E+05	1.235E+05	1.263E+05
90	1.683E+06	1.700E+06	7.485E+05	7.602E+05	4.215E+05	4.293E+05	1.877E+05	1.919E+05	1.058E+05	1.084E+05	6.783E+04	6.955E+04
120	7.478E+05	7.670E+05	3.327E+05	3.422E+05	1.873E+05	1.929E+05	8.341E+04	8.594E+04	4.701E+04	4.839E+04	3.015E+04	3.099E+04
150	4.832E+05	5.027E+05	2.150E+05	2.237E+05	1.210E+05	1.268E+05	5.390E+04	5.589E+04	3.038E+04	3.140E+04	1.948E+04	2.006E+04
179	4.207E+05	4.402E+05	1.872E+05	1.957E+05	1.054E+05	1.100E+05	4.693E+04	4.879E+04	2.645E+04	2.738E+04	1.696E+04	1.748E+04
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.498E+12	1.499E+12	7.380E+11	7.386E+11	3.311E+11	3.314E+11	1.880E+11	1.882E+11	8.509E+10	8.520E+10	4.872E+10	4.879E+10
2	9.361E+10	9.370E+10	4.613E+10	4.618E+10	2.070E+10	2.073E+10	1.175E+10	1.177E+10	5.319E+09	5.330E+09	3.045E+09	3.053E+09
3	1.850E+10	1.852E+10	9.115E+09	9.127E+09	4.090E+09	4.097E+09	2.322E+09	2.327E+09	1.351E+09	1.354E+09	6.017E+08	6.038E+08
4	5.854E+09	5.862E+09	2.885E+09	2.890E+09	1.294E+09	1.297E+09	7.349E+08	7.370E+08	3.326E+08	3.339E+08	1.904E+08	1.913E+08
6	1.158E+09	1.159E+09	5.705E+08	5.717E+08	2.559E+08	2.568E+08	1.453E+08	1.459E+08	6.577E+07	6.614E+07	3.766E+07	3.791E+07
8	3.668E+08	3.675E+08	1.808E+08	1.813E+08	8.110E+07	8.145E+07	4.604E+07	4.630E+07	2.084E+07	2.100E+07	1.193E+07	1.204E+07
10	1.505E+08	1.509E+08	7.417E+07	7.445E+07	3.328E+07	3.346E+07	1.889E+07	1.903E+07	8.552E+06	8.633E+06	4.896E+06	4.952E+06
15	2.992E+07	3.004E+07	1.475E+07	1.483E+07	6.616E+06	6.675E+06	3.756E+06	3.798E+06	1.700E+06	1.724E+06	9.733E+05	9.896E+05
20	9.552E+06	9.609E+06	4.707E+06	4.749E+06	2.112E+06	2.138E+06	1.199E+06	1.217E+06	5.427E+05	5.529E+05	3.107E+05	3.174E+05
30	1.935E+06	1.957E+06	9.538E+05	9.680E+05	4.279E+05	4.361E+05	2.430E+05	2.483E+05	1.100E+05	1.128E+05	6.296E+04	6.475E+04
45	4.049E+05	4.123E+05	1.996E+05	2.040E+05	8.954E+04	9.186E+04	5.083E+04	5.227E+04	2.301E+04	2.371E+04	1.317E+04	1.358E+04
60	1.390E+05	1.422E+05	6.848E+04	7.026E+04	3.072E+04	3.158E+04	1.744E+04	1.794E+04	7.895E+03	8.110E+03	4.520E+03	4.632E+03
75	6.324E+04	6.484E+04	3.116E+04	3.199E+04	1.398E+04	1.434E+04	7.938E+03	8.125E+03	3.593E+03	3.656E+03	2.057E+03	2.079E+03
90	3.474E+04	3.563E+04	1.712E+04	1.754E+04	7.661E+03	7.846E+03	4.361E+03	4.425E+03	1.974E+03	1.980E+03	1.130E+03	1.120E+03
120	1.544E+04	1.581E+04	7.609E+03	7.740E+03	3.414E+03	3.431E+03	1.938E+03	1.925E+03	8.772E+02	8.501E+02	5.023E+02	4.752E+02
150	9.977E+03	1.020E+04	4.917E+03	4.971E+03	2.206E+03	2.190E+03	1.252E+03	1.221E+03	5.669E+02	5.336E+02	3.246E+02	2.953E+02
179	8.666E+03	8.877E+03	4.281E+03	4.318E+03	1.921E+03	1.897E+03	1.090E+03	1.056E+03	4.935E+02	4.594E+02	2.826E+02	2.532E+02
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	3.172E+10	3.177E+10	1.673E+10	1.676E+10	8.587E+09	8.606E+09	4.094E+09	4.104E+09	2.451E+09	2.458E+09	1.211E+09	1.215E+09
2	1.983E+09	1.988E+09	1.046E+09	1.049E+09	5.368E+08	5.389E+08	2.559E+08	2.571E+08	1.532E+08	1.540E+08	7.569E+07	7.612E+07
3	3.918E+08	3.934E+08	2.066E+08	2.076E+08	1.061E+08	1.067E+08	5.056E+07	5.090E+07	3.027E+07	3.049E+07	1.496E+07	1.508E+07
4	1.240E+08	1.247E+08	6.540E+07	6.581E+07	3.357E+07	3.382E+07	1.600E+07	1.614E+07	9.580E+06	9.671E+06	4.734E+06	4.783E+06
6	2.452E+07	2.471E+07	1.293E+07	1.305E+07	6.638E+06	6.709E+06	3.184E+06	3.204E+06	1.894E+06	1.920E+06	9.360E+05	9.501E+05
8	7.769E+06	7.849E+06	4.097E+06	4.147E+06	2.103E+06	2.133E+06	1.003E+06	1.019E+06	6.002E+05	6.108E+05	2.966E+05	3.023E+05
10	3.188E+06	3.229E+06	1.681E+06	1.706E+06	8.631E+05	8.778E+05	4.114E+05	4.195E+05	2.463E+05	2.515E+05	1.217E+05	1.245E+05
15	6.338E+05	6.454E+05	3.342E+05	3.413E+05	1.716E+05	1.756E+05	8.179E+04	8.396E+04	4.896E+04	5.035E+04	2.419E+04	2.493E+04
20	2.023E+05	2.071E+05	1.067E+05	1.095E+05	5.477E+04	5.635E+04	2.611E+04	2.693E+04	1.563E+04	1.615E+04	7.723E+03	7.991E+03
30	4.100E+04	4.223E+04	2.162E+04	2.232E+04	1.110E+04	1.175E+04	5.291E+03	5.473E+03	3.167E+03	3.276E+03	1.565E+03	1.617E+03
45	8.578E+03	8.845E+03	4.524E+03	4.659E+03	2.322E+03	2.385E+03	1.107E+03	1.130E+03	6.627E+02	6.731E+02	3.274E+02	3.296E+02
60	2.943E+03	3.007E+03	1.552E+03	1.575E+03	7.968E+02	8.003E+02	3.798E+02	3.754E+02	2.274E+02	2.217E+02	1.124E+02	1.072E+02
75	1.339E+03	1.344E+03	7.064E+02	6.987E+02	3.626E+02	3.514E+02	1.729E+02	1.625E+02	1.035E+02	9.479E+01	5.113E+01	4.498E+01
90	7.358E+02	7.204E+02	3.881E+02	3.711E+02	1.992E+02	1.843E+02	9.496E+01	8.367E+01	5.685E+01	4.806E+01	2.809E+01	2.225E+01
120	3.270E+02	3.023E+02	1.725E+02	1.524E+02	8.853E+01	7.346E+01	4.221E+01	3.188E+01	2.527E+01	1.758E+01	1.248E+01	7.587E+00
150	2.113E+02	1.861E+02	1.114E+02	9.206E+01	5.721E+01	4.317E+01	2.727E+01	1.792E+01	1.633E+01	9.457E+00	8.067E+00	3.750E+00
179	1.840E+02	1.589E+02	9.703E+01	7.804E+01	4.981E+01	3.618E+01	2.374E+01	1.472E+01	1.421E+01	7.613E+00	7.023E+00	2.889E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	7.428E+08	7.453E+08	5.111E+08	5.128E+08	2.923E+08	2.943E+08	1.617E+08	1.623E+08	8.183E+07	8.214E+07	4.998E+07	5.017E+07
2	4.643E+07	4.671E+07	3.195E+07	3.215E+07	1.827E+07	1.839E+07	1.011E+07	1.018E+07	5.115E+06	5.151E+06	3.124E+06	3.146E+06
3	9.174E+06	9.254E+06	6.312E+06	6.369E+06	3.610E+06	3.644E+06	1.997E+06	2.017E+06	1.011E+06	1.021E+06	6.173E+05	6.236E+05
4	2.904E+06	2.936E+06	1.998E+06	2.021E+06	1.143E+06	1.157E+06	6.321E+05	6.402E+05	3.199E+05	3.240E+05	1.954E+05	1.980E+05
6	5.742E+05	5.834E+05	3.951E+05	4.016E+05	2.259E+05	2.299E+05	1.250E+05	1.272E+05	6.325E+04	6.442E+04	3.863E+04	3.935E+04
8	1.819E+05	1.856E+05	1.252E+05	1.278E+05	7.158E+04	7.316E+04	3.961E+04	4.051E+04	2.004E+04	2.051E+04	1.224E+04	1.253E+04
10	7.466E+04	7.647E+04	5.137E+04	5.265E+04	2.937E+04	3.014E+04	1.625E+04	1.669E+04	8.224E+03	8.449E+03	5.023E+03	5.162E+03
15	1.484E+04	1.531E+04	1.021E+04	1.054E+04	5.839E+03	6.034E+03	3.231E+03	3.360E+03	1.635E+03	1.691E+03	9.986E+02	1.033E+03
20	4.738E+03	4.906E+03	3.260E+03	3.377E+03	1.864E+03	1.942E+03	1.031E+03	1.069E+03	5.219E+02	5.411E+02	3.188E+02	3.305E+02
30	9.600E+02	9.908E+02	6.605E+02	6.811E+02	3.777E+02	3.889E+02	2.090E+02	2.149E+02	1.058E+02	1.086E+02	6.459E+01	6.632E+01
45	2.009E+02	2.009E+02	1.382E+02	1.375E+02	7.903E+01	7.811E+01	4.373E+01	4.296E+01	2.213E+01	2.164E+01	1.351E+01	1.319E+01
60	6.892E+01	6.470E+01	4.742E+01	4.400E+01	2.712E+01	2.476E+01	1.500E+01	1.352E+01	7.593E+00	6.768E+00	4.638E+00	4.113E+00
75	3.137E+01	2.680E+01	2.158E+01	1.804E+01	1.234E+01	1.002E+01	6.828E+00	5.403E+00	3.455E+00	2.679E+00	2.110E+00	1.621E+00
90	1.723E+01	1.301E+01	1.185E+01	8.630E+00	6.780E+00	4.696E+00	3.751E+00	2.469E+00	1.898E+00	1.216E+00	1.159E+00	7.303E-01
120	7.658E+00	4.188E+00	5.269E+00	2.531E+00	3.013E+00	1.343E+00	1.667E+00	6.644E-01	8.436E-01	3.050E-01	5.153E-01	1.774E-01
150	4.948E+00	1.910E+00	3.405E+00	1.122E+00	1.947E+00	4.974E-01	1.077E+00	2.096E-01	5.451E-01	8.012E-02	3.330E-01	4.157E-02
179	4.308E+00	1.404E+00	2.964E+00	7.844E-01	1.695E+00	3.126E-01	9.379E-01	1.111E-01	4.746E-01	3.176E-02	2.899E-01	1.245E-02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	2.452E+07	2.461E+07	1.460E+07	1.466E+07	9.701E+06	9.749E+06	5.181E+06	5.201E+06	2.633E+06	2.644E+06	1.206F+06	1.211E+06
2	1.533E+06	1.544E+06	9.128E+05	9.193E+05	6.064E+05	6.107E+05	3.238E+05	3.262E+05	1.644E+05	1.658E+05	7.540E+04	7.594E+04
3	3.028E+05	3.059E+05	1.804E+05	1.822E+05	1.198E+05	1.210E+05	6.399E+04	6.465E+04	3.252E+04	3.286E+04	1.490E+04	1.505E+04
4	9.585E+04	9.712E+04	5.708E+04	5.785E+04	3.792E+04	3.843E+04	2.025E+04	2.052E+04	1.029E+04	1.043E+04	4.715E+03	4.778E+03
6	1.895E+04	1.931E+04	1.129E+04	1.150E+04	7.498E+03	7.640E+03	4.005E+03	4.080E+03	2.036E+03	2.074E+03	9.324E+02	9.500E+02
8	6.005E+03	6.147E+03	3.577E+03	3.661E+03	2.376E+03	2.442E+03	1.269E+03	1.299E+03	6.450E+02	6.603E+02	2.954E+02	3.025E+02
10	2.464E+03	2.533E+03	1.468E+03	1.508E+03	9.749E+02	1.002E+03	5.207E+02	5.352E+02	2.647E+02	2.721E+02	1.212E+02	1.246E+02
15	4.899E+02	5.069E+02	2.917E+02	3.019E+02	1.938E+02	2.006E+02	1.035E+02	1.071E+02	5.261E+01	5.445E+01	2.410E+01	2.494E+01
20	1.564E+02	1.621E+02	9.314E+01	9.657E+01	6.187E+01	6.415E+01	3.304E+01	3.426E+01	1.680E+01	1.742E+01	7.693E+00	7.977E+00
30	3.169E+01	3.252E+01	1.887E+01	1.936E+01	1.254E+01	1.286E+01	6.695E+00	6.868E+00	3.403E+00	3.491E+00	1.559E+00	1.599E+00
45	6.630E+00	6.457E+00	3.949E+00	3.843E+00	2.623E+00	2.552E+00	1.401E+00	1.362E+00	7.121E-01	6.923E-01	3.262E-01	3.171E-01
60	2.275E+00	2.009E+00	1.355E+00	1.194E+00	9.001E-01	7.955E-01	4.807E-01	4.229E-01	2.443E-01	2.148E-01	1.119E-01	9.838E-02
75	1.035E+00	7.884E-01	6.166E-01	4.679E-01	4.096E-01	3.103E-01	2.188E-01	1.654E-01	1.112E-01	8.401E-02	5.093E-02	3.846E-02
90	5.687E-01	3.530E-01	3.387E-01	2.089E-01	2.250E-01	1.383E-01	1.202E-01	7.367E-02	6.109E-02	3.738E-02	2.798E-02	1.711E-02
120	2.528E-01	8.325E-02	1.505E-01	4.865E-02	1.000E-01	3.200E-02	5.341E-02	1.693E-02	2.715E-02	8.561E-03	1.244E-02	3.910E-03
150	1.633E-01	1.723E-02	9.728E-02	9.488E-03	6.462E-02	6.041E-03	3.451E-02	3.045E-03	1.754E-02	1.535E-03	8.035E-03	6.935E-04
179	1.422E-01	3.131E-03	8.470E-02	1.133E-03	5.628E-02	5.040E-04	3.005E-02	1.468E-04	1.527E-02	3.884E-05	6.996E-03	8.537E-06
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	6.892E+05	6.919E+05	3.112E+05	3.125E+05	1.765E+05	1.772E+05	1.135E+05	1.140E+05	5.825E+04	5.848E+04	2.866E+04	2.878E+04
2	4.308E+04	4.339E+04	1.946E+04	1.959E+04	1.103E+04	1.111E+04	7.096E+03	7.147E+03	3.641E+03	3.667E+03	1.792E+03	1.805E+03
3	8.512E+03	8.600E+03	3.844E+03	3.884E+03	2.180E+03	2.203E+03	1.402E+03	1.417E+03	7.194E+02	7.269E+02	3.540E+02	3.577E+02
4	2.694E+03	2.730E+03	1.217E+03	1.233E+03	6.900E+02	6.992E+02	4.436E+02	4.497E+02	2.277E+02	2.308E+02	1.121E+02	1.136E+02
6	5.327E+02	5.428E+02	2.406E+02	2.451E+02	1.364E+02	1.390E+02	8.775E+01	8.941E+01	4.502E+01	4.586E+01	2.216E+01	2.250E+01
8	1.688E+02	1.728E+02	7.623E+01	7.804E+01	4.323E+01	4.426E+01	2.780E+01	2.847E+01	1.427E+01	1.461E+01	7.021E+00	7.186E+00
10	6.926E+01	7.120E+01	3.128E+01	3.215E+01	1.774E+01	1.823E+01	1.141E+01	1.173E+01	5.854E+00	6.018E+00	2.881E+00	2.961E+00
15	1.377E+01	1.425E+01	6.218E+00	6.435E+00	3.526E+00	3.649E+00	2.268E+00	2.347E+00	1.164E+00	1.204E+00	5.727E+00	5.927E+00
20	4.395E+00	4.558E+00	1.985E+00	2.058E+00	1.129E+00	1.167E+00	7.240E+00	7.508E+00	3.715E+00	3.852E+00	1.828E+00	1.896E+00
30	8.906E+00	9.136E+00	4.022E+00	4.126E+00	2.281E+00	2.340E+00	1.467E+00	1.505E+00	7.528E+00	7.721E+00	3.705E+00	3.800E+00
45	1.864E+01	1.811E+01	8.416E+00	8.180E+00	4.773E+00	4.649E+00	3.070E+00	2.984E+00	1.575E+00	1.531E+00	7.751E+00	7.534E+00
60	6.395E+00	5.620E+00	2.888E+00	2.538E+00	1.638E+00	1.439E+00	1.053E+00	9.257E+00	5.405E+00	4.750E+00	2.660E+00	2.337E+00
75	2.910E+00	2.197E+00	1.314E+00	9.920E+00	7.453E+00	6.655E+00	4.793E+00	3.618E+00	2.460E+00	1.856E+00	1.210E+00	9.136E+00
90	1.599E+00	9.770E+00	7.220E+00	4.411E+00	4.094E+00	2.501E+00	2.633E+00	1.609E+00	1.351E+00	8.254E+00	6.649E+00	4.062E+00
120	7.105E+00	2.231E+00	3.209E+00	1.007E+00	1.820E+00	5.708E+00	1.170E+00	3.671E+00	6.005E+00	1.883E+00	2.955E+00	9.268E+00
150	4.591E+00	3.942E+00	2.073E+00	1.773E+00	1.176E+00	1.004E+00	7.562E+00	6.455E+00	3.880E+00	3.311E+00	1.910E+00	1.629E+00
179	3.997E+00	2.956E+00	1.805E+00	6.997E+00	1.024E+00	2.682E+00	6.584E+00	1.338E+00	3.378E+00	5.126E+00	1.663E+00	2.064E+00

K (19)

(BARNES/STEBIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	8.082E+13	8.086E+13	3.595E+13	3.598E+13	2.024E+13	2.026E+13	9.015E+12	9.020E+12	5.081E+12	5.084E+12	3.258E+12	3.260E+12
2	5.052E+12	5.055E+12	2.247E+12	2.249E+12	1.265E+12	1.266E+12	5.635E+11	5.639E+11	3.176E+11	3.178E+11	2.036E+11	2.038E+11
3	9.982E+11	9.988E+11	4.441E+11	4.444E+11	2.500E+11	2.502E+11	1.113E+11	1.114E+11	6.275E+10	6.281E+10	4.024E+10	4.028E+10
4	3.159E+11	3.161E+11	1.406E+11	1.407E+11	7.914E+10	7.920E+10	3.524E+10	3.527E+10	1.986E+10	1.988E+10	1.274E+10	1.275E+10
6	6.247E+10	6.252E+10	2.779E+10	2.781E+10	1.565E+10	1.566E+10	6.968E+09	6.976E+09	3.927E+09	3.932E+09	2.518E+09	2.521E+09
8	1.979E+10	1.981E+10	8.806E+09	8.814E+09	4.958E+09	4.964E+09	2.208E+09	2.211E+09	1.244E+09	1.246E+09	7.979E+08	7.990E+08
10	8.128E+09	8.128E+09	3.614E+09	3.617E+09	2.035E+09	2.037E+09	9.060E+08	9.072E+08	5.106E+08	5.113E+08	3.274E+08	3.279E+08
15	1.615E+09	1.616E+09	7.183E+08	7.193E+08	4.045E+08	4.050E+08	1.801E+08	1.803E+08	1.015E+08	1.017E+08	6.509E+07	6.523E+07
20	5.155E+08	5.162E+08	2.293E+08	2.296E+08	1.291E+08	1.292E+08	5.750E+07	5.757E+07	3.240E+07	3.247E+07	2.078E+07	2.085E+07
30	1.044E+08	1.046E+08	4.647E+07	4.649E+07	2.616E+07	2.618E+07	1.165E+07	1.168E+07	6.566E+06	6.599E+06	4.210E+06	4.241E+06
45	2.185E+07	2.185E+07	9.722E+06	9.733E+06	5.479E+06	5.492E+06	2.438E+06	2.458E+06	1.374E+06	1.389E+06	8.809E+05	8.935E+05
60	7.499E+06	7.504E+06	3.363E+06	3.351E+06	1.878E+06	1.894E+06	8.365E+05	8.478E+05	4.714E+05	4.797E+05	3.023E+05	3.085E+05
75	3.413E+06	3.427E+06	1.518E+06	1.533E+06	8.548E+05	8.644E+05	3.807E+05	3.879E+05	2.145E+05	2.194E+05	1.376E+05	1.410E+05
90	1.875E+06	1.894E+06	8.340E+05	8.472E+05	4.696E+05	4.787E+05	2.091E+05	2.141E+05	1.179E+05	1.210E+05	7.557E+04	7.767E+04
120	8.332E+05	8.561E+05	3.707E+05	3.822E+05	2.087E+05	2.165E+05	9.294E+04	9.608E+04	5.238E+04	5.412E+04	3.359E+04	3.466E+04
150	5.384E+05	5.625E+05	2.395E+05	2.504E+05	1.349E+05	1.409E+05	6.055E+04	6.259E+04	3.385E+04	3.517E+04	2.170E+04	2.247E+04
179	4.687E+05	4.930E+05	2.085E+05	2.192E+05	1.174E+05	1.232E+05	5.229E+04	5.468E+04	2.947E+04	3.069E+04	1.890E+04	1.960E+04
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.669E+12	1.670E+12	8.223E+11	8.230E+11	3.689E+11	3.693E+11	2.095E+11	2.097E+11	9.481E+10	9.493E+10	5.428E+10	5.436E+10
2	1.043E+11	1.044E+11	5.140E+10	5.146E+10	2.306E+10	2.309E+10	1.309E+10	1.311E+10	5.926E+09	5.939E+09	3.393E+09	3.402E+09
3	2.061E+10	2.063E+10	1.016E+10	1.017E+10	4.557E+09	4.565E+09	2.587E+09	2.593E+09	1.171E+09	1.174E+09	6.704E+08	6.728E+08
4	6.523E+09	6.531E+09	3.215E+09	3.220E+09	1.442E+09	1.445E+09	8.188E+08	8.211E+08	3.706E+08	3.720E+08	2.122E+08	2.132E+08
6	1.298E+09	1.292E+09	6.356E+08	6.370E+08	2.852E+08	2.861E+08	1.619E+08	1.626E+08	7.328E+07	7.370E+07	4.196E+07	4.225E+07
8	4.087E+08	4.094E+08	2.014E+08	2.020E+08	9.036E+07	9.075E+07	5.130E+07	5.159E+07	2.322E+07	2.340E+07	1.329E+07	1.342E+07
10	1.677E+08	1.681E+08	8.264E+07	8.293E+07	3.708E+07	3.728E+07	2.105E+07	2.120E+07	9.528E+06	9.621E+06	5.456E+06	5.519E+06
15	3.334E+07	3.346E+07	1.643E+07	1.653E+07	7.371E+06	7.447E+06	4.185E+06	4.233E+06	1.894E+06	1.922E+06	1.084E+06	1.103E+06
20	1.064E+07	1.070E+07	5.245E+06	5.291E+06	2.353E+06	2.383E+06	1.336E+06	1.357E+06	6.047E+05	6.166E+05	3.462E+05	3.541E+05
30	2.156E+06	2.180E+06	1.063E+06	1.079E+06	4.768E+05	4.863E+05	2.707E+05	2.770E+05	1.225E+05	1.259E+05	7.015E+04	7.230E+04
45	4.512E+05	4.597E+05	2.224E+05	2.275E+05	9.976E+04	1.025E+05	5.664E+04	5.837E+04	2.564E+04	2.649E+04	1.468E+04	1.519E+04
60	1.548E+05	1.586E+05	7.630E+04	7.844E+04	3.423E+04	3.559E+04	1.944E+04	2.005E+04	8.797E+03	9.071E+03	5.037E+03	5.183E+03
75	7.046E+04	7.240E+04	3.472E+04	3.574E+04	1.558E+04	1.603E+04	8.845E+03	9.087E+03	4.003E+03	4.091E+03	2.292E+03	2.327E+03
90	3.871E+04	3.982E+04	1.907E+04	1.961E+04	8.558E+03	8.765E+03	4.859E+03	4.952E+03	2.199E+03	2.216E+03	1.259E+03	1.254E+03
120	1.720E+04	1.769E+04	8.478E+03	8.664E+03	3.804E+03	3.842E+03	2.160E+03	2.155E+03	9.774E+02	9.521E+02	5.596E+02	5.323E+02
150	1.112E+04	1.143E+04	5.478E+03	5.570E+03	2.458E+03	2.453E+03	1.395E+03	1.368E+03	6.316E+02	5.977E+02	3.308E+02	3.148E+02
179	9.678E+03	9.949E+03	4.769E+03	4.840E+03	2.140E+03	2.126E+03	1.215E+03	1.183E+03	5.499E+02	5.146E+02	3.148E+02	2.836E+02
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	3.534E+10	3.544E+10	1.864E+10	1.868E+10	9.568E+09	9.589E+09	4.561E+09	4.573E+09	2.731E+09	2.739E+09	1.349E+09	1.354E+09
2	2.209E+09	2.216E+09	1.165E+09	1.169E+09	5.981E+08	6.005E+08	2.851E+08	2.865E+08	1.707E+08	1.716E+08	8.433E+07	8.483E+07
3	4.365E+08	4.383E+08	2.302E+08	2.313E+08	1.182E+08	1.189E+08	5.633E+07	5.672E+07	3.372E+07	3.398E+07	1.666E+07	1.680E+07
4	1.382E+08	1.389E+08	7.287E+07	7.334E+07	3.740E+07	3.769E+07	1.783E+07	1.799E+07	1.067E+07	1.078E+07	5.274E+06	5.333E+06
6	2.732E+07	2.754E+07	1.441E+07	1.454E+07	7.396E+06	7.479E+06	3.526E+06	3.572E+06	2.111E+06	2.141E+06	1.043E+06	1.060E+06
8	8.657E+06	8.748E+06	4.565E+06	4.623E+06	2.343E+06	2.378E+06	1.117E+06	1.136E+06	6.688E+05	6.812E+05	3.204E+05	3.372E+05
10	3.552E+06	3.599E+06	1.873E+06	1.902E+06	9.616E+05	9.789E+05	4.587E+05	4.679E+05	2.744E+05	2.806E+05	1.356E+05	1.389E+05
15	7.061E+05	7.198E+05	3.724E+05	3.807E+05	1.912E+05	1.940E+05	9.113E+04	9.372E+04	5.456E+04	5.621E+04	2.695E+04	2.784E+04
20	2.254E+05	2.310E+05	1.189E+05	1.222E+05	6.102E+04	6.292E+04	2.904E+04	3.008E+04	1.742E+04	1.804E+04	8.605E+03	8.931E+03
30	4.568E+04	4.716E+04	2.409E+04	2.493E+04	1.237E+04	1.282E+04	5.895E+03	6.121E+03	3.529E+03	3.665E+03	1.744E+03	1.810E+03
45	9.557E+03	9.891E+03	5.040E+03	5.212E+03	2.587E+03	2.669E+03	1.233E+03	1.266E+03	7.394E+02	7.543E+02	3.648E+02	3.696E+02
60	3.279E+03	3.366E+03	1.729E+03	1.764E+03	8.878E+02	8.967E+02	4.232E+02	4.210E+02	2.534E+02	2.447E+02	1.257E+02	1.203E+02
75	1.492E+03	1.505E+03	7.871E+02	7.829E+02	4.040E+02	3.940E+02	1.926E+02	1.823E+02	1.153E+02	1.064E+02	5.957E+01	5.054E+01
90	8.199E+02	8.070E+02	4.324E+02	4.159E+02	2.219E+02	2.046E+02	1.056E+02	9.390E+01	6.334E+01	5.307E+01	3.130E+01	2.500E+01
120	3.644E+02	3.386E+02	1.922E+02	1.708E+02	9.864E+01	8.235E+01	4.703E+01	3.575E+01	2.815E+01	1.973E+01	1.301E+01	8.521E+00
150	2.355E+02	2.084E+02	1.242E+02	1.031E+02	6.374E+01	4.815E+01	3.039E+01	2.007E+01	1.819E+01	1.046E+01	8.988E+00	4.203E+00
179	2.050E+02	1.780E+02	1.081E+02	8.738E+01	5.549E+01	4.061E+01	2.646E+01	1.648E+01	1.584E+01	8.521E+00	7.825E+00	3.234E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	8.278E+08	8.305E+08	5.695E+08	5.715E+08	3.256E+08	3.269E+08	1.802E+08	1.809E+08	9.117E+07	9.154E+07	5.569E+07	5.591E+07
2	5.174E+07	5.206E+07	3.560E+07	3.583E+07	2.036E+07	2.040E+07	1.126E+07	1.134E+07	5.699E+06	5.741E+06	3.481E+06	3.507E+06
3	1.022E+07	1.031E+07	7.033E+06	7.100E+06	4.022E+06	4.042E+06	2.225E+06	2.248E+06	1.126E+06	1.138E+06	6.878E+05	6.952E+05
4	3.235E+06	3.274E+06	2.226E+06	2.253E+06	1.273E+06	1.289E+06	7.043E+05	7.137E+05	3.564E+05	3.613E+05	2.177E+05	2.207E+05
6	6.397E+05	6.506E+05	4.402E+05	4.479E+05	2.517E+05	2.564E+05	1.393E+05	1.419E+05	7.048E+04	7.185E+04	4.305E+04	4.390E+04
8	2.027E+05	2.071E+05	1.395E+05	1.426E+05	7.976E+04	8.163E+04	4.413E+04	4.520E+04	2.233E+04	2.288E+04	1.364E+04	1.398E+04
10	8.318E+04	8.534E+04	5.723E+04	5.876E+04	3.273E+04	3.364E+04	1.811E+04	1.863E+04	9.163E+03	9.431E+03	5.597E+03	5.762E+03
15	1.654E+04	1.710E+04	1.138E+04	1.178E+04	6.506E+03	6.741E+03	3.600E+03	3.732E+03	1.822E+03	1.890E+03	1.113E+03	1.154E+03
20	5.279E+03	5.484E+03	3.632E+03	3.775E+03	2.077E+03	2.140E+03	1.149E+03	1.196E+03	5.815E+02	6.052E+02	3.552E+02	3.697E+02
30	1.070E+03	1.109E+03	7.359E+02	7.626E+02	4.209E+02	4.356E+02	2.528E+02	2.407E+02	1.178E+02	1.217E+02	7.197E+01	7.431E+01
45	2.238E+02	2.253E+02	1.540E+02	1.543E+02	8.806E+01	8.766E+01	4.872E+01	4.823E+01	2.465E+01	2.430E+01	1.506E+01	1.481E+01
60	7.679E+01	7.268E+01	5.284E+01	4.944E+01	3.022E+01	2.784E+01	1.672E+01	1.520E+01	8.460E+00	7.613E+00	5.167E+00	4.627E+00
75	3.495E+01	3.013E+01	2.405E+01	2.029E+01	1.375E+01	1.127E+01	7.608E+00	6.084E+00	3.850E+00	3.018E+00	2.352E+00	1.826E+00
90	1.920E+01	1.463E+01	1.321E+01	9.713E+00	7.554E+00	5.289E+00	4.179E+00	2.805E+00	2.115E+00	1.371E+00	8.238E+00	6.238E+00
120	8.533E+00	4.708E+00	5.871E+00	2.982E+00	3.357E+00	1.513E+00	1.858E+00	7.490E-01	9.400E-01	3.443E-01	5.741E-01	2.004E-01
150	5.514E+00	2.142E+00	3.794E+00	1.258E+00	2.169E+00	5.585E-01	1.200E+00	2.356E-01	6.074E-01	4.023E-02	3.710E-01	4.687E-02
179	4.800E+00	1.571E+00	3.303E+00	8.777E-01	1.889E+00	3.488E-01	1.045E+00	1.243E-01	5.288E-01	3.553E-02	3.230E-01	1.393E-02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	2.732E+07	2.743E+07	1.627E+07	1.634E+07	1.081E+07	1.085E+07	5.772E+06	5.796E+06	2.934E+06	2.946E+06	1.344E+06	1.349E+06
2	1.708E+06	1.720E+06	1.017E+06	1.025E+06	6.756E+05	6.807E+05	3.608E+05	3.635E+05	1.834E+05	1.849E+05	8.401E+04	8.464E+04
3	3.374E+05	3.411E+05	2.009E+05	2.031E+05	1.335E+05	1.349E+05	7.129E+04	7.207E+04	3.624E+04	3.664E+04	1.660E+04	1.678E+04
4	1.068E+05	1.083E+05	6.360E+04	6.450E+04	4.225E+04	4.285E+04	2.257E+04	2.288E+04	1.147E+04	1.163E+04	5.254E+03	5.328E+03
6	2.112E+04	2.154E+04	1.258E+04	1.273E+04	8.355E+03	8.522E+03	4.462E+03	4.551E+03	2.268E+03	2.314E+03	1.039E+03	1.060E+03
8	6.691E+03	6.859E+03	3.985E+03	4.036E+03	2.647E+03	2.714E+03	1.414E+03	1.450E+03	7.186E+02	7.369E+02	3.292E+02	3.375E+02
10	2.746E+03	2.827E+03	1.635E+03	1.684E+03	1.086E+03	1.119E+03	5.801E+02	5.975E+02	2.949E+02	3.037E+02	1.351E+02	1.391E+02
15	5.458E+02	5.664E+02	3.251E+02	3.374E+02	2.159E+02	2.241E+02	1.153E+02	1.197E+02	5.862E+01	6.085E+01	2.685E+01	2.787E+01
20	1.748E+02	1.814E+02	1.038E+02	1.080E+02	6.894E+01	7.176E+01	3.682E+01	3.832E+01	1.871E+01	1.948E+01	8.572E+00	8.923E+00
30	3.531E+01	3.644E+01	2.103E+01	2.170E+01	1.397E+01	1.441E+01	7.460E+00	7.696E+00	3.792E+00	3.912E+00	1.737E+00	1.792E+00
45	7.387E+01	7.252E+00	4.399E+00	4.316E+00	2.923E+00	2.866E+00	1.561E+00	1.530E+00	7.934E-01	7.776E-01	3.634E-01	3.561E-01
60	2.555E+00	2.260E+00	1.510E+00	1.344E+00	1.003E+00	8.918E-01	5.356E-01	4.759E-01	2.723E-01	2.418E-01	1.247E-01	1.107E-01
75	1.154E+00	0.845E-01	6.870E-01	5.274E-01	4.564E-01	3.497E-01	2.437E-01	1.865E-01	1.239E-01	9.469E-02	5.675E-02	4.335E-02
90	6.337E-01	3.983E-01	3.774E-01	2.357E-01	2.507E-01	1.561E-01	1.339E-01	8.313E-02	6.806E-02	4.219E-02	3.118E-02	1.930E-02
120	2.816E-01	9.406E-02	1.677E-01	5.498E-02	1.114E-01	3.617E-02	5.951E-02	1.914E-02	3.025E-02	9.680E-03	1.386E-02	4.420E-03
150	1.820E-01	1.946E-02	1.084E-01	1.072E-02	7.200E-02	6.830E-03	3.845E-02	3.502E-03	1.955E-02	1.737E-03	8.953E-03	7.848E-04
179	1.584E-01	3.503E-03	9.437E-02	1.267E-03	6.289E-02	5.862E-04	3.348E-02	1.643E-04	1.702E-02	4.347E-05	7.795E-03	9.561E-06
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	7.679E+05	7.710E+05	3.468E+05	3.482E+05	1.967E+05	1.975E+05	1.265E+05	1.270E+05	6.490E+04	6.517E+04	3.194E+04	3.207E+04
2	4.800E+04	4.836E+04	2.168E+04	2.184E+04	1.229E+04	1.239E+04	7.906E+03	7.966E+03	4.057E+03	4.088E+03	1.996E+03	2.012E+03
3	9.484E+03	9.587E+03	4.283E+03	4.330E+03	2.429E+03	2.455E+03	1.562E+03	1.579E+03	8.016E+02	8.103E+02	3.915E+02	3.988E+02
4	3.002E+03	3.044E+03	1.356E+03	1.375E+03	7.688E+02	7.797E+02	4.945E+02	5.014E+02	2.537E+02	2.573E+02	1.249E+02	1.266E+02
6	5.935E+02	6.055E+02	2.680E+02	2.734E+02	1.520E+02	1.551E+02	9.777E+01	9.974E+01	5.017E+01	5.118E+01	2.469E+01	2.518E+01
8	1.881E+02	1.928E+02	8.493E+01	8.709E+01	4.817E+01	4.939E+01	3.098E+01	3.177E+01	1.590E+01	1.630E+01	7.822E+00	8.021E+00
10	7.717E+01	7.948E+01	3.485E+01	3.599E+01	1.976E+01	2.036E+01	1.271E+01	1.309E+01	6.523E+00	6.718E+00	3.210E+00	3.306E+00
15	1.534E+01	1.592E+01	6.928E+00	7.191E+00	3.929E+00	4.078E+00	2.527E+00	2.623E+00	1.297E+00	1.346E+00	6.381E-01	6.623E-01
20	4.897E+00	5.098E+00	2.212E+00	2.302E+00	1.254E+00	1.306E+00	8.067E-01	8.398E-01	4.139E-01	4.309E-01	2.037E-01	2.121E-01
30	9.924E-01	1.024E+00	4.482E-01	4.623E-01	2.542E-01	2.622E-01	1.635E-01	1.686E-01	8.387E-02	8.652E-02	4.128E-02	4.298E-02
45	2.076E-01	2.035E-01	9.377E-02	9.188E-02	5.318E-02	5.210E-02	3.420E-02	3.351E-02	1.755E-02	1.720E-02	8.636E-03	8.462E-03
60	7.125E-02	6.325E-02	3.218E-02	2.856E-02	1.825E-02	1.620E-02	1.174E-02	1.042E-02	6.022E-03	5.345E-03	2.963E-03	2.630E-03
75	3.242E-02	2.476E-02	1.464E-02	1.118E-02	8.304E-03	6.341E-03	5.34E-03	4.078E-03	2.740E-03	2.092E-03	1.349E-03	1.030E-03
90	7.781E-02	1.103E-02	8.444E-03	4.978E-03	4.562E-03	2.823E-03	2.934E-03	1.816E-03	1.505E-03	9.315E-04	7.409E-04	4.584E-04
120	7.916E-03	2.523E-03	3.575E-03	1.138E-03	2.027E-03	6.454E-04	1.304E-03	4.151E-04	6.691E-04	2.130E-04	3.293E-04	1.048E-04
150	5.115E-03	4.461E-04	2.310E-03	2.007E-04	1.310E-03	1.137E-04	8.426E-04	7.307E-05	4.324E-04	3.747E-05	2.128E-04	1.843E-05
179	4.454E-03	3.313E-06	2.011E-03	7.852E-07	1.141E-03	3.014E-07	7.336E-04	1.506E-07	3.764E-04	5.779E-08	1.852E-04	2.331E-08

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	8.955E+13	8.960E+13	3.984E+13	3.986E+13	2.243E+13	2.244E+13	9.989E+12	9.995E+12	5.629E+12	5.633E+12	3.610E+12	3.612E+12
2	5.598E+12	5.601E+12	2.490E+12	2.492E+12	1.402E+12	1.403E+12	6.244E+11	6.248E+11	3.519E+11	3.522E+11	2.256E+11	2.258E+11
3	1.106E+12	1.107E+12	4.920E+11	4.924E+11	2.770E+11	2.772E+11	1.234E+11	1.235E+11	6.953E+10	6.959E+10	4.458E+10	4.463E+10
4	3.501E+11	3.503E+11	1.557E+11	1.558E+11	8.769E+10	8.775E+10	3.905E+10	3.908E+10	2.201E+10	2.203E+10	1.411E+10	1.413E+10
6	6.922E+10	6.927E+10	3.079E+10	3.082E+10	1.734E+10	1.735E+10	7.721E+09	7.730E+09	4.351E+09	4.357E+09	2.790E+09	2.794E+09
8	2.193E+10	2.195E+10	9.757E+09	9.765E+09	5.404E+09	5.500E+09	2.446E+09	2.450E+09	1.379E+09	1.381E+09	8.841E+08	8.854E+08
10	9.000E+09	9.007E+09	4.004E+09	4.008E+09	2.254E+09	2.257E+09	1.004E+09	1.005E+09	5.658E+08	5.666E+08	3.628E+08	3.633E+08
15	1.789E+09	1.791E+09	7.959E+08	7.971E+08	4.481E+08	4.488E+08	1.996E+08	1.998E+08	1.125E+08	1.126E+08	7.212E+07	7.226E+07
20	5.711E+08	5.720E+08	2.541E+08	2.545E+08	1.431E+08	1.432E+08	6.371E+07	6.378E+07	3.591E+07	3.597E+07	2.302E+07	2.309E+07
30	1.157E+08	1.159E+08	5.149E+07	5.151E+07	2.809E+07	2.901E+07	1.291E+07	1.294E+07	7.275E+06	7.308E+06	4.665E+06	4.697E+06
45	2.421E+07	2.420E+07	1.077E+07	1.078E+07	6.065E+06	6.081E+06	2.701E+06	2.720E+06	1.522E+06	1.539E+06	9.761E+05	9.900E+05
60	8.309E+06	8.309E+06	3.696E+06	3.710E+06	2.081E+06	2.097E+06	9.268E+05	9.392E+05	5.223E+05	5.316E+05	3.349E+05	3.420E+05
75	3.781E+06	3.794E+06	1.682E+06	1.697E+06	9.472E+05	9.599E+05	4.218E+05	4.300E+05	2.377E+05	2.433E+05	1.524E+05	1.564E+05
90	2.077E+06	2.097E+06	9.261E+05	9.388E+05	5.203E+05	5.308E+05	2.317E+05	2.376E+05	1.306E+05	1.343E+05	8.374E+04	8.626E+04
120	9.232E+05	9.502E+05	4.107E+05	4.245E+05	2.313E+05	2.395E+05	1.030E+05	1.048E+05	5.804E+04	6.020E+04	3.722E+04	3.857E+04
150	5.966E+05	6.259E+05	2.654E+05	2.787E+05	1.494E+05	1.569E+05	6.654E+04	6.972E+04	3.750E+04	3.918E+04	2.405E+04	2.504E+04
179	5.194E+05	5.492E+05	2.311E+05	2.442E+05	1.301E+05	1.374E+05	5.793E+04	6.096E+04	3.265E+04	3.422E+04	2.094E+04	2.185E+04
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.849E+12	1.850E+12	9.111E+11	9.119E+11	4.088E+11	4.092E+11	2.321E+11	2.323E+11	1.050E+11	1.052E+11	6.015E+10	6.024E+10
2	1.156E+11	1.157E+11	5.696E+10	5.702E+10	2.555E+10	2.559E+10	1.451E+10	1.453E+10	6.567E+09	6.580E+09	3.760E+09	3.769E+09
3	2.283E+10	2.286E+10	1.125E+10	1.127E+10	5.049E+09	5.058E+09	2.867E+09	2.873E+09	1.297E+09	1.301E+09	7.428E+08	7.455E+08
4	7.280E+09	7.237E+09	3.562E+09	3.567E+09	1.598E+09	1.601E+09	9.073E+08	9.098E+08	4.107E+08	4.122E+08	2.351E+08	2.362E+08
6	1.429E+09	1.431E+09	7.043E+08	7.057E+08	3.160E+08	3.170E+08	1.794E+08	1.801E+08	8.120E+07	8.167E+07	4.649E+07	4.682E+07
8	4.528E+08	4.536E+08	2.232E+08	2.237E+08	1.001E+08	1.005E+08	5.685E+07	5.716E+07	2.573E+07	2.593E+07	1.473E+07	1.487E+07
10	1.858E+08	1.862E+08	9.157E+07	9.188E+07	4.109E+07	4.131E+07	2.333E+07	2.349E+07	1.056E+07	1.066E+07	6.045E+06	6.118E+06
15	3.694E+07	3.706E+07	1.820E+07	1.831E+07	8.167E+06	8.240E+06	4.637E+06	4.691E+06	2.099E+06	2.131E+06	1.202E+06	1.223E+06
20	1.179E+07	1.186E+07	5.811E+06	5.861E+06	2.607E+06	2.641E+06	1.480E+06	1.504E+06	6.700E+05	6.838E+05	3.836E+05	3.927E+05
30	2.389E+06	2.415E+06	1.178E+06	1.196E+06	5.283E+05	5.392E+05	2.999E+05	3.073E+05	1.358E+05	1.398E+05	7.773E+04	8.027E+04
45	4.999E+05	5.095E+05	2.464E+05	2.524E+05	1.105E+05	1.138E+05	6.276E+04	6.482E+04	2.841E+04	2.944E+04	1.626E+04	1.688E+04
60	1.715E+05	1.760E+05	8.454E+04	8.708E+04	3.793E+04	3.920E+04	2.154E+04	2.229E+04	9.747E+03	1.009E+04	5.581E+03	5.767E+03
75	7.807E+04	8.039E+04	3.847E+04	3.971E+04	1.726E+04	1.782E+04	9.800E+03	1.011E+04	4.436E+03	4.553E+03	2.540E+03	2.592E+03
90	4.289E+04	4.425E+04	2.114E+04	2.180E+04	9.483E+03	9.751E+03	5.384E+03	5.511E+03	2.437E+03	2.468E+03	1.395E+03	1.397E+03
120	1.906E+04	1.969E+04	9.394E+03	9.646E+03	4.215E+03	4.279E+03	2.393E+03	2.400E+03	1.083E+03	1.061E+03	6.201E+02	5.931E+02
150	1.232E+04	1.274E+04	6.070E+03	6.207E+03	2.723E+03	2.774E+03	1.546E+03	1.524E+03	6.998E+02	6.661E+02	4.007E+02	3.686E+02
179	1.072E+04	1.109E+04	5.285E+03	5.399E+03	2.371E+03	2.370E+03	1.346E+03	1.318E+03	6.093E+02	5.735E+02	3.488E+02	3.161E+02
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	3.916E+10	3.923E+10	2.065E+10	2.069E+10	1.060E+10	1.063E+10	5.054E+09	5.068E+09	3.026E+09	3.035E+09	1.495E+09	1.500E+09
2	2.448E+09	2.455E+09	1.291E+09	1.296E+09	6.627E+08	6.644E+08	3.159E+08	3.175E+08	1.891E+08	1.902E+08	9.345E+07	9.402E+07
3	4.837E+08	4.857E+08	2.551E+08	2.564E+08	1.309E+08	1.317E+08	6.242E+07	6.287E+07	3.737E+07	3.766E+07	1.846E+07	1.863E+07
4	1.531E+08	1.539E+08	8.074E+07	8.127E+07	4.144E+07	4.177E+07	1.976E+07	1.994E+07	1.183E+07	1.195E+07	5.844E+06	5.912E+06
6	3.027E+07	3.052E+07	1.596E+07	1.612E+07	8.195E+06	8.290E+06	3.907E+06	3.960E+06	2.339E+06	2.374E+06	1.156E+06	1.175E+06
8	9.592E+06	9.697E+06	5.058E+06	5.124E+06	2.597E+06	2.636E+06	1.238E+06	1.260E+06	7.410E+05	7.555E+05	3.661E+05	3.741E+05
10	9.336E+06	9.390E+06	2.076E+06	2.109E+06	1.065E+06	1.086E+06	5.080E+05	5.190E+05	3.041E+05	3.113E+05	1.502E+05	1.542E+05
15	7.824E+05	7.983E+05	4.126E+05	4.223E+05	2.118E+05	2.175E+05	1.010E+05	1.040E+05	6.045E+04	6.241E+04	2.987E+04	3.092E+04
20	2.468E+05	2.563E+05	1.317E+05	1.356E+05	6.762E+04	6.986E+04	3.223E+04	3.342E+04	1.930E+04	2.004E+04	9.535E+03	9.926E+03
30	5.061E+04	5.238E+04	2.669E+04	2.770E+04	1.370E+04	1.426E+04	6.532E+03	6.807E+03	3.910E+03	4.077E+03	1.932E+03	2.014E+03
45	1.059E+04	1.100E+04	5.585E+03	5.800E+03	2.867E+03	2.972E+03	1.367E+03	1.410E+03	8.181E+02	8.406E+02	4.042E+02	4.121E+02
60	3.634E+03	3.747E+03	1.916E+03	1.965E+03	9.837E+02	9.939E+02	4.689E+02	4.695E+02	2.807E+02	2.775E+02	1.387E+02	1.343E+02
75	1.654E+03	1.677E+03	8.721E+02	8.725E+02	4.477E+02	4.393E+02	2.134E+02	2.035E+02	1.278E+02	1.188E+02	6.312E+01	5.649E+01
90	9.084E+02	8.993E+02	4.791E+02	4.636E+02	2.459E+02	2.305E+02	1.172E+02	1.048E+02	7.018E+01	6.028E+01	3.468E+01	2.796E+01
120	4.037E+02	3.774E+02	2.129E+02	1.904E+02	1.093E+02	9.183E+01	5.211E+01	3.989E+01	3.119E+01	2.202E+01	1.541E+01	9.521E+00
150	2.609E+02	2.322E+02	1.376E+02	1.149E+02	7.063E+01	5.388E+01	3.367E+01	2.236E+01	2.016E+01	1.181E+01	9.959E+00	4.605E+00
179	2.271E+02	1.983E+02	1.198E+02	9.734E+01	6.149E+01	4.511E+01	2.931E+01	1.835E+01	1.755E+01	9.487E+00	8.671E+00	3.609E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-00MEV		1.5E-00MEV		2.0E-00MEV	
1	9.171E+08	9.203E+08	6.310E+08	6.333E+08	3.608E+08	3.622E+08	1.996E+08	2.004E+08	1.010E+08	1.014E+08	6.170E+07	6.197E+07
2	5.732E+07	5.770E+07	3.944E+07	3.971E+07	2.256E+07	2.272E+07	1.248E+07	1.257E+07	6.315E+06	6.363E+06	3.857E+06	3.887E+06
3	1.133E+07	1.143E+07	7.793E+06	7.870E+06	4.456E+06	4.503E+06	2.466E+06	2.492E+06	1.248E+06	1.262E+06	7.621E+05	7.706E+05
4	3.585E+06	3.629E+06	2.467E+06	2.498E+06	1.411E+06	1.430E+06	7.804E+05	7.914E+05	3.949E+05	4.006E+05	2.412E+05	2.447E+05
6	7.089E+05	7.215E+05	4.877E+05	4.968E+05	2.789E+05	2.843E+05	1.543E+05	1.574E+05	7.809E+04	7.970E+04	4.770E+04	4.869E+04
8	2.246E+05	2.298E+05	1.545E+05	1.582E+05	8.838E+04	9.057E+04	4.890E+04	5.015E+04	2.474E+04	2.539E+04	1.511E+04	1.551E+04
10	9.217E+04	9.470E+04	6.342E+04	6.522E+04	3.626E+04	3.734E+04	2.006E+04	2.068E+04	1.015E+04	1.047E+04	6.202E+03	6.396E+03
15	1.832E+04	1.899E+04	1.261E+04	1.308E+04	7.209E+03	7.449E+03	3.989E+03	4.147E+03	2.018E+03	2.100E+03	1.233E+03	1.283E+03
20	5.849E+03	6.096E+03	4.024E+03	4.197E+03	2.301E+03	2.402E+03	1.273E+03	1.334E+03	6.443E+02	6.731E+02	3.936E+02	4.112E+02
30	1.185E+03	1.235E+03	8.154E+02	8.493E+02	4.663E+02	4.852E+02	2.580E+02	2.682E+02	1.306E+02	1.356E+02	7.974E+01	8.280E+01
45	2.480E+02	2.513E+02	1.706E+02	1.722E+02	9.757E+01	9.785E+01	5.398E+01	5.385E+01	2.732E+01	2.714E+01	1.669E+01	1.654E+01
60	8.509E+01	8.119E+01	5.855E+01	5.525E+01	3.348E+01	3.113E+01	1.852E+01	1.700E+01	9.374E+00	8.518E+00	5.725E+00	5.178E+00
75	3.872E+01	3.369E+01	2.664E+01	2.270E+01	1.524E+01	1.262E+01	8.430E+00	6.815E+00	4.266E+00	3.382E+00	2.606E+00	2.047E+00
90	1.27E+01	1.637E+01	1.464E+01	1.087E+01	8.370E+00	5.925E+00	4.631E+00	3.145E+00	2.343E+00	1.538E+00	1.431E+00	9.244E+00
120	9.454E+00	5.264E+00	6.505E+00	3.337E+00	3.720E+00	1.694E+00	2.058E+00	8.400E+00	1.042E+00	3.865E+00	6.362E+01	2.251E+01
150	6.109E+00	2.389E+00	4.203E+00	1.404E+00	2.404E+00	6.237E+01	1.330E+00	2.635E+01	6.730E+01	1.011E+01	4.111E+01	5.275E+02
179	5.319E+00	1.749E+00	3.660E+00	9.771E+01	2.093E+00	3.894E+01	1.158E+00	1.384E+01	5.860E+01	1.955E+02	3.579E+01	1.551E+02
DEG	3.0E-00MEV		4.0E-00MEV		5.0E-00MEV		7.0E-00MEV		1.0E-01MEV		1.5E-01MEV	
1	3.027E+07	3.040E+07	1.803E+07	1.811E+07	1.198E+07	1.203E+07	6.396E+06	6.423E+06	3.251E+06	3.265E+06	1.489E+06	1.496E+06
2	1.892E+06	1.907E+06	1.127E+06	1.136E+06	7.486E+05	7.545E+05	3.998E+05	4.030E+05	2.032E+05	2.048E+05	9.309E+04	9.382E+04
3	3.739E+05	3.781E+05	2.227E+05	2.252E+05	1.679E+05	1.696E+05	7.899E+04	7.990E+04	4.015E+04	4.061E+04	1.839E+04	1.860E+04
4	1.183E+05	1.201E+05	7.048E+04	7.152E+04	4.682E+04	4.751E+04	2.500E+04	2.537E+04	1.271E+04	1.290E+04	5.821E+03	5.908E+03
6	2.340E+04	2.389E+04	1.394E+04	1.423E+04	9.257E+03	9.453E+03	4.944E+03	5.049E+03	2.513E+03	2.566E+03	1.151E+03	1.176E+03
8	7.414E+03	7.612E+03	4.415E+03	4.534E+03	2.933E+03	3.012E+03	1.567E+03	1.609E+03	7.963E+02	8.177E+02	3.647E+02	3.746E+02
10	3.043E+03	3.139E+03	1.812E+03	1.869E+03	1.204E+03	1.242E+03	6.428E+02	6.633E+02	3.268E+02	3.372E+02	1.497E+02	1.544E+02
15	6.040E+02	6.294E+02	3.602E+02	3.749E+02	2.393E+02	2.491E+02	1.278E+02	1.330E+02	6.496E+01	6.762E+01	2.975E+01	3.097E+01
20	1.931E+02	2.017E+02	1.150E+02	1.202E+02	7.638E+01	7.942E+01	4.079E+01	4.263E+01	2.074E+01	2.167E+01	9.598E+00	9.926E+00
30	3.912E+01	4.060E+01	2.330E+01	2.418E+01	1.548E+01	1.606E+01	8.266E+00	8.577E+00	4.202E+00	4.359E+00	1.924E+00	1.997E+00
45	8.185E+00	8.100E+00	4.875E+00	4.821E+00	3.238E+00	3.201E+00	1.729E+00	1.709E+00	8.791E+00	8.686E+00	4.027E+01	3.978E+01
60	2.809E+00	2.529E+00	1.673E+00	1.504E+00	1.111E+00	9.981E+01	5.935E+01	5.326E+01	3.017E+01	2.706E+01	1.382E+01	1.239E+01
75	1.278E+00	9.959E+01	7.612E+01	5.911E+01	5.057E+01	3.920E+01	2.701E+01	2.090E+01	1.373E+01	1.062E+01	6.288E+02	4.860E+02
90	7.022E+01	4.470E+01	4.182E+01	2.646E+01	2.778E+01	1.742E+01	1.484E+01	9.332E+02	7.542E+02	4.736E+02	3.454E+02	2.167E+02
120	3.121E+01	1.057E+01	1.859E+01	6.181E+02	1.235E+01	4.047E+02	6.594E+02	2.153E+02	3.352E+02	1.069E+02	1.535E+02	4.972E+03
150	2.017E+01	2.186E+02	1.201E+01	1.205E+02	7.978E+02	7.682E+03	4.261E+02	3.940E+03	2.166E+02	1.956E+03	9.920E+03	8.835E+04
179	1.756E+01	3.899E+03	1.046E+01	1.411E+03	6.946E+02	6.302E+04	3.710E+02	1.829E+04	1.886E+02	4.841E+05	8.637E+03	1.065E+05
DEG	2.0E-01MEV		3.0E-01MEV		4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-02MEV	
1	8.508E+05	8.545E+05	3.842E+05	3.859E+05	2.179E+05	2.188E+05	1.401E+05	1.408E+05	7.191E+04	7.222E+04	3.539E+04	3.554E+04
2	5.318E+04	5.360E+04	2.402E+04	2.421E+04	1.362E+04	1.373E+04	8.761E+03	8.830E+03	4.495E+03	4.531E+03	2.212E+03	2.230E+03
3	1.051E+04	1.063E+04	4.746E+03	4.800E+03	2.691E+03	2.722E+03	1.731E+03	1.751E+03	8.882E+02	8.983E+02	4.371E+02	4.421E+02
4	3.326E+03	3.376E+03	1.502E+03	1.524E+03	8.518E+02	8.645E+02	5.479E+02	5.560E+02	2.811E+02	2.853E+02	1.383E+02	1.404E+02
6	6.577E+02	6.716E+02	2.970E+02	3.033E+02	1.684E+02	1.720E+02	1.083E+02	1.106E+02	5.559E+01	5.677E+01	2.735E+01	2.794E+01
8	2.084E+02	2.140E+02	9.411E+01	9.665E+01	5.337E+01	5.481E+01	3.433E+01	3.525E+01	1.761E+01	1.809E+01	8.668E+00	8.991E+00
10	8.551E+01	8.824E+01	3.862E+01	3.985E+01	2.190E+01	2.240E+01	1.409E+01	1.454E+01	7.227E+00	7.458E+00	3.557E+00	3.670E+00
15	1.700E+01	1.770E+01	7.677E+00	7.992E+00	4.354E+00	4.532E+00	2.800E+00	2.915E+00	1.437E+00	1.496E+00	7.070E+01	7.360E+01
20	5.427E+00	5.671E+00	2.451E+00	2.561E+00	1.390E+00	1.452E+00	8.939E+01	9.341E+01	4.587E+01	4.793E+01	2.257E+01	2.359E+01
30	1.100E+00	1.141E+00	4.966E+01	5.152E+01	2.816E+01	2.922E+01	1.811E+01	1.879E+01	9.294E+02	9.642E+02	4.573E+02	4.745E+02
45	2.301E+01	2.273E+01	1.039E+01	1.026E+01	5.892E+02	5.820E+02	3.790E+02	3.743E+02	1.945E+02	1.921E+02	9.569E+03	9.452E+03
60	7.894E+02	7.079E+02	3.565E+02	3.197E+02	2.022E+02	1.813E+02	1.300E+02	1.166E+02	6.673E+03	5.983E+03	3.284E+03	2.944E+03
75	3.593E+02	2.776E+02	1.622E+02	1.254E+02	9.201E+03	7.108E+03	5.918E+03	4.572E+03	3.037E+03	2.346E+03	1.494E+03	1.154E+03
90	1.974E+02	1.238E+02	8.913E+03	5.588E+03	5.055E+03	3.169E+03	3.251E+03	2.038E+03	1.668E+03	1.046E+03	8.209E+04	5.146E+04
120	8.772E+03	5.837E+03	3.961E+03	1.280E+03	2.47E+03	7.259E+04	1.445E+03	4.686E+04	7.414E+04	2.395E+04	3.648E+04	1.179E+04
150	5.668E+03	2.023E+04	2.560E+03	2.260E+04	1.452E+03	1.280E+04	9.338E+04	8.227E+05	4.791E+04	4.219E+05	2.358E+04	2.074E+05
179	4.935E+03	3.693E+06	2.229E+03	8.766E+07	1.264E+03	3.370E+07	8.129E+04	1.686E+07	4.171E+04	6.482E+08	2.053E+04	2.618E+08

SC (21)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	9.8738E+13	9.878E+13	4.392E+13	4.395E+13	2.473E+13	2.474E+13	1.101E+13	1.102E+13	6.207E+12	6.211E+12	3.980E+12	3.983E+12
2	6.171E+12	6.175E+12	2.746E+12	2.747E+12	1.566E+12	1.567E+12	6.884E+11	6.889E+11	3.880E+11	3.883E+11	2.488E+11	2.490E+11
3	1.219E+12	1.220E+12	5.425E+11	5.428E+11	3.054E+11	3.056E+11	1.360E+11	1.361E+11	7.665E+10	7.672E+10	4.915E+10	4.920E+10
4	3.859E+11	3.862E+11	1.717E+11	1.718E+11	9.667E+10	9.675E+10	4.305E+10	4.309E+10	2.426E+10	2.429E+10	1.556E+10	1.558E+10
6	7.631E+10	7.637E+10	3.395E+10	3.398E+10	1.912E+10	1.913E+10	8.512E+09	8.522E+09	4.797E+09	4.804E+09	3.076E+09	3.080E+09
8	2.418E+10	2.420E+10	1.176E+10	1.077E+10	6.057E+09	6.063E+09	2.697E+09	2.701E+09	1.520E+09	1.522E+09	9.748E+08	9.762E+08
10	9.922E+09	9.930E+09	4.414E+09	4.418E+09	2.485E+09	2.489E+09	1.107E+09	1.108E+09	6.238E+08	6.247E+08	4.600E+08	4.606E+08
15	1.972E+09	1.974E+09	8.775E+08	8.788E+08	4.941E+08	4.949E+08	2.200E+08	2.203E+08	1.240E+08	1.242E+08	7.951E+07	7.966E+07
20	6.297E+08	6.305E+08	2.801E+08	2.806E+08	1.577E+08	1.579E+08	7.024E+07	7.032E+07	3.959E+07	3.965E+07	2.538E+07	2.545E+07
30	1.276E+08	1.278E+08	5.676E+07	5.680E+07	3.196E+07	3.198E+07	1.423E+07	1.426E+07	8.021E+06	8.052E+06	5.143E+06	5.175E+06
45	2.670E+07	2.669E+07	1.188E+07	1.188E+07	6.687E+06	6.700E+06	2.978E+06	2.997E+06	1.678E+06	1.696E+06	1.076E+06	1.091E+06
60	9.161E+06	9.154E+06	4.075E+06	4.087E+06	2.295E+06	2.310E+06	1.022E+06	1.035E+06	5.759E+05	5.862E+05	3.693E+05	3.773E+05
75	4.169E+06	4.178E+06	1.855E+06	1.870E+06	1.044E+06	1.058E+06	4.650E+05	4.743E+05	2.621E+05	2.685E+05	1.681E+05	1.727E+05
90	2.299E+06	2.310E+06	1.019E+06	1.035E+06	5.737E+05	5.865E+05	2.555E+05	2.623E+05	1.440E+05	1.483E+05	9.232E+04	9.532E+04
120	1.018E+06	1.049E+06	4.528E+05	4.691E+05	2.550E+05	2.648E+05	1.135E+05	1.182E+05	6.399E+04	6.663E+04	4.103E+04	4.270E+04
150	6.577E+05	6.931E+05	2.926E+05	3.088E+05	1.647E+05	1.739E+05	7.336E+04	7.729E+04	4.135E+04	4.345E+04	2.651E+04	2.777E+04
179	5.726E+05	6.089E+05	2.547E+05	2.709E+05	1.344E+05	1.524E+05	6.387E+04	6.763E+04	3.600E+04	3.797E+04	2.308E+04	2.425E+04
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.038E+12	2.040E+12	1.005E+12	1.005E+12	4.507E+11	4.511E+11	2.559E+11	2.562E+11	1.158E+11	1.160E+11	6.631E+10	6.641E+10
2	1.274E+11	1.275E+11	6.279E+10	6.286E+10	2.817E+10	2.821E+10	1.600E+10	1.602E+10	7.240E+09	7.255E+09	4.145E+09	4.156E+09
3	2.518E+10	2.520E+10	1.241E+10	1.242E+10	5.566E+09	5.576E+09	3.160E+09	3.167E+09	1.430E+09	1.435E+09	8.190E+08	8.220E+08
4	7.968E+09	7.979E+09	3.927E+09	3.933E+09	1.762E+09	1.766E+09	1.000E+09	1.003E+09	4.528E+08	4.545E+08	2.592E+08	2.605E+08
6	1.578E+09	1.578E+09	7.765E+08	7.780E+08	3.484E+08	3.494E+08	1.978E+08	1.986E+08	8.952E+07	9.004E+07	5.126E+07	5.163E+07
8	4.992E+08	5.001E+08	2.460E+08	2.467E+08	1.104E+08	1.108E+08	6.267E+07	6.302E+07	2.837E+07	2.859E+07	1.624E+07	1.640E+07
10	2.049E+08	2.053E+08	1.010E+08	1.013E+08	4.530E+07	4.563E+07	2.572E+07	2.590E+07	1.164E+07	1.176E+07	6.664E+06	6.747E+06
15	4.072E+07	4.085E+07	2.007E+07	2.018E+07	9.004E+06	9.084E+06	5.112E+06	5.172E+06	2.314E+06	2.350E+06	1.325E+06	1.350E+06
20	1.300E+07	1.307E+07	6.407E+06	6.461E+06	2.875E+06	2.912E+06	1.632E+06	1.659E+06	7.387E+05	7.545E+05	4.229E+05	4.335E+05
30	2.634E+06	2.662E+06	1.298E+06	1.318E+06	5.825E+05	5.949E+05	3.307E+05	3.391E+05	1.497E+05	1.543E+05	8.570E+04	8.807E+04
45	5.518E+05	5.619E+05	2.716E+05	2.785E+05	1.219E+05	1.257E+05	6.919E+04	7.161E+04	3.132E+04	3.255E+04	1.793E+04	1.867E+04
60	1.891E+05	1.942E+05	9.321E+04	9.618E+04	4.182E+04	4.333E+04	2.374E+04	2.465E+04	1.075E+04	1.117E+04	6.153E+03	6.386E+03
75	8.607E+04	8.881E+04	4.242E+04	4.389E+04	1.903E+04	1.972E+04	1.080E+04	1.119E+04	4.890E+03	5.043E+03	2.800E+03	2.871E+03
90	4.728E+04	4.892E+04	2.330E+04	2.412E+04	1.045E+04	1.079E+04	5.936E+03	6.104E+03	2.687E+03	2.735E+03	1.538E+03	1.549E+03
120	2.104E+04	2.181E+04	1.036E+04	1.069E+04	4.646E+03	4.742E+03	2.638E+03	2.661E+03	1.194E+03	1.176E+03	6.836E+02	6.578E+02
150	1.358E+04	1.413E+04	6.692E+03	6.886E+03	3.002E+03	3.033E+03	1.705E+03	1.691E+03	7.715E+02	7.388E+02	4.417E+02	4.088E+02
179	1.182E+04	1.231E+04	5.826E+03	5.969E+03	2.614E+03	2.640E+03	1.484E+03	1.463E+03	6.717E+02	6.362E+02	3.846E+02	3.506E+02
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	4.318E+10	4.325E+10	2.277E+10	2.282E+10	1.169E+10	1.172E+10	5.572E+09	5.588E+09	3.336E+09	3.346E+09	1.648E+09	1.654E+09
2	2.699E+09	2.707E+09	1.423E+09	1.428E+09	7.306E+08	7.337E+08	3.483E+08	3.501E+08	2.085E+08	2.097E+08	1.030E+08	1.037E+08
3	5.333E+08	5.355E+08	2.812E+08	2.827E+08	1.444E+08	1.453E+08	6.882E+07	6.933E+07	4.120E+07	4.154E+07	2.036E+07	2.054E+07
4	1.688E+08	1.697E+08	8.901E+07	8.962E+07	4.569E+07	4.606E+07	2.178E+07	2.199E+07	1.304E+07	1.318E+07	6.443E+06	6.521E+06
6	3.337E+07	3.365E+07	1.760E+07	1.778E+07	9.035E+06	9.146E+06	4.307E+06	4.369E+06	2.578E+06	2.619E+06	1.274E+06	1.296E+06
8	1.057E+07	1.069E+07	5.577E+06	5.652E+06	2.863E+06	2.908E+06	1.365E+06	1.390E+06	8.170E+05	8.337E+05	4.037E+05	4.129E+05
10	4.339E+06	4.401E+06	2.288E+06	2.327E+06	1.175E+06	1.198E+06	5.600E+05	5.728E+05	3.353E+05	3.436E+05	1.656E+05	1.702E+05
15	8.626E+05	8.809E+05	4.549E+05	4.661E+05	2.335E+05	2.401E+05	1.113E+05	1.149E+05	6.664E+04	6.894E+04	3.293E+04	3.416E+04
20	2.754E+05	2.830E+05	1.452E+05	1.498E+05	7.455E+04	7.718E+04	3.554E+04	3.693E+04	2.128E+04	2.215E+04	1.051E+04	1.098E+04
30	5.580E+04	5.788E+04	2.943E+04	3.063E+04	1.511E+04	1.577E+04	7.201E+03	7.533E+03	4.311E+03	4.514E+03	2.130E+03	2.231E+03
45	1.167E+04	1.217E+04	6.157E+03	6.421E+03	3.161E+03	3.292E+03	1.507E+03	1.563E+03	9.020E+02	9.322E+02	4.579E+02	4.737E+02
60	4.006E+03	4.150E+03	2.113E+03	2.177E+03	1.085E+03	1.108E+03	5.170E+02	5.210E+02	3.095E+02	3.081E+02	1.595E+02	1.493E+02
75	1.823E+03	1.858E+03	9.615E+02	9.677E+02	4.935E+02	4.875E+02	2.353E+02	2.260E+02	1.409E+02	1.321E+02	6.929E+01	6.283E+01
90	1.002E+03	9.972E+02	5.282E+02	5.143E+02	2.711E+02	2.559E+02	1.293E+02	1.164E+02	7.738E+01	6.701E+01	3.823E+01	3.111E+01
120	4.451E+02	4.186E+02	2.348E+02	2.112E+02	1.205E+02	1.019E+02	5.745E+01	4.430E+01	3.439E+01	2.444E+01	1.699E+01	1.059E+01
150	2.676E+02	2.575E+02	1.517E+02	1.274E+02	7.786E+01	5.979E+01	3.712E+01	2.480E+01	2.222E+01	1.310E+01	1.098E+01	5.159E+00
179	2.504E+02	2.199E+02	1.321E+02	1.079E+02	6.779E+01	5.001E+01	3.232E+01	2.034E+01	1.935E+01	1.051E+01	9.559E+00	3.989E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-00MEV		1.5E-00MEV		2.0E-00MEV	
1	1.011E+09	1.015E+09	6.956E+08	6.983E+08	3.978E+08	3.994E+08	2.201E+08	2.210E+08	1.11E+08	1.119E+08	6.803E+07	6.833E+07
2	6.320E+07	6.363E+07	4.348E+07	4.379E+07	2.487E+07	2.505E+07	1.376E+07	1.387E+07	6.962E+06	7.018E+06	4.252E+06	4.287E+06
3	1.249E+07	1.261E+07	9.592E+06	8.681E+06	4.913E+06	4.976E+06	2.718E+06	2.749E+06	1.376E+06	1.392E+06	8.402E+05	8.501E+05
4	3.952E+06	4.004E+06	2.719E+06	2.756E+06	1.555E+06	1.577E+06	8.604E+05	8.731E+05	4.354E+05	4.420E+05	2.659E+05	2.700E+05
6	7.815E+05	7.962E+05	5.377E+05	5.482E+05	3.075E+05	3.138E+05	1.701E+05	1.737E+05	8.609E+04	8.796E+04	5.259E+04	5.374E+04
8	2.476E+05	2.536E+05	1.704E+05	1.747E+05	9.743E+04	9.999E+04	5.391E+04	5.537E+04	2.728E+04	2.804E+04	1.666E+04	1.713E+04
10	1.016E+05	1.046E+05	6.992E+04	7.202E+04	3.998E+04	4.124E+04	2.212E+04	2.284E+04	1.119E+04	1.156E+04	6.837E+03	7.065E+03
15	2.020E+04	2.099E+04	1.390E+04	1.446E+04	7.948E+03	8.278E+03	4.397E+03	4.584E+03	2.225E+03	2.321E+03	1.359E+03	1.418E+03
20	6.448E+03	6.743E+03	4.437E+03	4.643E+03	2.537E+03	2.658E+03	1.404E+03	1.471E+03	1.439E+02	1.503E+02	4.339E+02	4.551E+02
30	1.307E+03	1.368E+03	8.990E+02	9.410E+02	5.141E+02	5.378E+02	2.844E+02	2.973E+02	3.012E+01	3.016E+01	8.792E+01	9.180E+01
45	2.734E+02	2.790E+02	1.881E+02	1.912E+02	1.076E+02	1.087E+02	5.952E+01	5.983E+01	3.012E+01	3.016E+01	1.840E+01	1.838E+01
60	9.381E+01	9.027E+01	6.455E+01	6.145E+01	3.691E+01	3.463E+01	2.042E+01	1.893E+01	1.033E+01	9.484E+00	6.312E+00	5.766E+00
75	4.269E+01	3.750E+01	2.937E+01	2.527E+01	1.680E+01	1.406E+01	9.294E+00	7.596E+00	4.703E+00	3.771E+00	2.873E+00	2.283E+00
90	2.345E+01	1.823E+01	1.614E+01	1.211E+01	9.228E+00	6.606E+00	5.106E+00	3.508E+00	2.584E+00	1.717E+00	1.578E+00	1.032E+00
120	1.042E+01	5.858E+00	7.172E+00	3.716E+00	4.101E+00	1.889E+00	2.269E+00	9.376E-01	1.148E+00	4.319E-01	7.014E-01	2.517E-01
150	6.735E+00	2.652E+00	4.634E+00	1.559E+00	2.650E+00	6.933E-01	1.466E+00	2.933E-01	7.420E-01	1.127E-01	4.532E-01	5.668E-02
179	5.864E+00	1.939E+00	4.035E+00	1.083E+00	2.307E+00	4.314E-01	1.277E+00	1.533E-01	6.460E-01	4.381E-02	3.946E-01	1.718E-02
DEG	3.0E-00MEV		4.0E-00MEV		5.0E-00MEV		7.0E-00MEV		1.0E-01MEV		1.5E-01MEV	
1	3.337E+07	3.352E+07	1.988E+07	1.996E+07	1.320E+07	1.326E+07	7.052E+06	7.083E+06	3.584E+06	3.600E+06	1.642E+06	1.649E+06
2	2.086E+06	2.103E+06	1.242E+06	1.253E+06	8.253E+05	8.351E+05	4.408E+05	4.444E+05	2.241E+05	2.259E+05	1.026E+05	1.035E+05
3	4.122E+05	4.171E+05	2.455E+05	2.484E+05	1.631E+05	1.660E+05	8.709E+04	8.813E+04	4.427E+04	4.480E+04	2.028E+04	2.052E+04
4	1.305E+05	1.325E+05	7.770E+04	7.890E+04	5.162E+04	5.242E+04	2.757E+04	2.830E+04	1.401E+04	1.423E+04	6.418E+03	6.458E+03
6	2.580E+04	2.637E+04	1.536E+04	1.571E+04	1.021E+04	1.043E+04	5.451E+03	5.572E+03	2.771E+03	2.833E+03	1.269E+03	1.297E+03
8	8.174E+03	8.405E+03	4.868E+03	5.006E+03	3.234E+03	3.326E+03	1.727E+03	1.776E+03	8.779E+02	9.029E+02	4.021E+02	4.136E+02
10	3.354E+03	3.467E+03	1.998E+03	2.065E+03	1.327E+03	1.372E+03	7.087E+02	7.327E+02	3.602E+02	3.725E+02	1.650E+02	1.706E+02
15	6.668E+02	6.960E+02	3.971E+02	4.145E+02	2.638E+02	2.754E+02	1.409E+02	1.471E+02	7.161E+01	7.477E+01	3.280E+01	3.425E+01
20	2.129E+02	2.233E+02	1.268E+02	1.330E+02	8.421E+01	8.835E+01	4.497E+01	4.718E+01	2.286E+01	2.398E+01	1.047E+01	1.099E+01
30	4.313E+01	4.502E+01	2.569E+01	2.681E+01	1.706E+01	1.781E+01	9.113E+00	9.510E+00	4.632E+00	4.834E+00	2.122E+00	2.214E+00
45	9.024E+00	9.003E+00	5.374E+00	5.358E+00	3.570E+00	3.568E+00	1.907E+00	1.900E+00	9.692E-01	9.655E-01	4.439E-01	4.422E-01
60	3.097E+00	2.817E+00	1.844E+00	1.675E+00	1.225E+00	1.112E+00	6.543E-01	5.932E-01	3.326E-01	3.014E-01	1.523E-01	1.380E-01
75	1.409E+00	1.111E+00	8.393E-01	6.594E-01	5.575E-01	4.373E-01	2.978E-01	2.332E-01	1.514E-01	1.184E-01	6.933E-02	5.422E-02
90	7.741E-01	4.992E-01	4.611E-01	2.956E-01	3.063E-01	1.957E-01	1.636E-01	1.042E-01	8.315E-02	5.290E-02	3.808E-02	2.421E-02
120	3.441E-01	1.183E-01	2.049E-01	6.916E-02	1.361E-01	4.552E-02	7.270E-02	4.099E-02	3.695E-02	1.218E-02	1.693E-02	5.565E-03
150	2.223E-01	2.444E-02	1.324E-01	1.349E-02	8.796E-02	8.600E-03	4.698E-02	4.413E-03	2.388E-02	2.191E-03	1.094E-02	9.859E-04
179	1.936E-01	4.319E-03	1.153E-01	1.563E-03	7.558E-02	6.983E-04	4.090E-02	2.027E-04	2.079E-02	5.365E-05	9.522E-03	1.181E-05
DEG	2.0E-01MEV		3.0E-01MEV		4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-02MEV	
1	9.380E+05	9.422E+05	4.236E+05	4.255E+05	2.402E+05	2.413E+05	1.545E+05	1.552E+05	7.928E+04	7.964E+04	3.902E+04	3.914E+04
2	5.864E+04	5.912E+04	2.648E+04	2.670E+04	1.502E+04	1.514E+04	9.659E+03	9.738E+03	4.956E+03	4.997E+03	2.439E+03	2.459E+03
3	1.159E+04	1.172E+04	5.232E+03	5.295E+03	2.967E+03	3.003E+03	1.908E+03	1.931E+03	9.792E+02	9.910E+02	4.819E+02	4.877E+02
4	3.667E+03	3.724E+03	1.656E+03	1.682E+03	9.391E+02	9.538E+02	6.040E+02	6.135E+02	3.099E+02	3.148E+02	1.525E+02	1.549E+02
6	7.251E+02	7.413E+02	3.275E+02	3.348E+02	1.857E+02	1.899E+02	1.194E+02	1.221E+02	6.128E+01	6.266E+01	3.016E+01	3.083E+01
8	2.297E+02	2.363E+02	1.038E+02	1.067E+02	5.884E+01	6.052E+01	3.784E+01	3.892E+01	1.942E+01	1.997E+01	9.556E+00	9.828E+00
10	9.428E+01	9.747E+01	4.258E+01	4.402E+01	2.414E+01	2.466E+01	1.553E+01	1.606E+01	7.968E+00	8.239E+00	3.921E+00	4.034E+00
15	1.874E+01	1.957E+01	8.464E+00	8.837E+00	4.800E+00	5.011E+00	3.087E+00	3.223E+00	1.584E+00	1.654E+00	7.795E+00	8.139E+00
20	5.983E+00	6.277E+00	2.702E+00	2.835E+00	1.532E+00	1.608E+00	9.855E-01	1.034E+00	5.057E-01	5.305E-01	2.488E-01	2.611E-01
30	1.212E+00	1.265E+00	5.475E-01	5.713E-01	3.105E-01	3.240E-01	1.997E-01	2.084E-01	1.025E-01	1.069E-01	5.042E-02	5.262E-02
45	2.536E-01	2.526E-01	1.145E-01	1.141E-01	6.496E-02	6.470E-02	4.178E-02	4.161E-02	2.144E-02	2.135E-02	1.055E-02	1.051E-02
60	8.704E-02	7.885E-02	3.931E-02	3.561E-02	2.229E-02	2.019E-02	1.434E-02	1.299E-02	7.356E-03	6.663E-03	3.620E-03	3.279E-03
75	3.961E-02	3.097E-02	1.789E-02	1.399E-02	1.014E-02	7.931E-03	6.524E-03	5.101E-03	3.348E-03	2.617E-03	1.647E-03	1.288E-03
90	2.176E-02	1.383E-02	9.827E-03	6.243E-03	5.573E-03	3.540E-03	3.584E-03	2.277E-03	1.839E-03	1.189E-03	9.050E-04	5.749E-04
120	9.671E-03	3.176E-03	4.367E-03	1.433E-03	2.477E-03	8.126E-04	1.593E-03	5.226E-04	8.174E-04	2.661E-04	4.022E-04	1.319E-04
150	6.249E-03	5.628E-04	2.822E-03	2.532E-04	1.600E-03	1.474E-04	1.029E-03	9.219E-05	5.282E-04	4.728E-05	2.599E-04	2.326E-05
179	5.441E-03	4.097E-06	2.457E-03	9.740E-07	1.393E-03	3.769E-07	8.962E-04	1.878E-07	4.598E-04	7.236E-08	2.263E-04	2.928E-08

TI (22)

(BARNS/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.084E+14	1.084E+14	4.820E+13	4.823E+13	2.714E+13	2.716E+13	1.209E+13	1.209E+13	6.812E+12	6.816E+12	4.368E+12	4.371E+12
2	6.773E+12	6.777E+12	3.013E+12	3.015E+12	1.697E+12	1.698E+12	7.555E+11	7.560E+11	4.258E+11	4.261E+11	2.730E+11	2.733E+11
3	1.338E+12	1.339E+12	5.954E+11	5.958E+11	3.352E+11	3.355E+11	1.493E+11	1.494E+11	8.413E+10	8.420E+10	5.395E+10	5.400E+10
4	4.236E+11	4.238E+11	1.884E+11	1.886E+11	1.061E+11	1.062E+11	4.725E+10	4.729E+10	2.663E+10	2.666E+10	1.708E+10	1.709E+10
6	8.375E+10	8.382E+10	3.726E+10	3.729E+10	2.098E+10	2.100E+10	9.342E+09	9.353E+09	5.265E+09	5.272E+09	3.376E+09	3.381E+09
8	2.654E+10	2.656E+10	1.181E+10	1.182E+10	6.648E+09	6.654E+09	2.960E+09	2.964E+09	1.668E+09	1.671E+09	1.070E+09	1.071E+09
10	1.089E+10	1.090E+10	4.845E+09	4.849E+09	2.728E+09	2.731E+09	1.215E+09	1.217E+09	6.846E+08	6.857E+08	4.390E+08	4.397E+08
15	2.165E+09	2.166E+09	9.631E+08	9.644E+08	5.423E+08	5.432E+08	2.415E+08	2.418E+08	1.361E+08	1.363E+08	8.727E+07	8.741E+07
20	6.911E+08	6.919E+08	3.074E+08	3.080E+08	1.731E+08	1.734E+08	7.709E+07	7.717E+07	4.345E+07	4.351E+07	2.786E+07	2.792E+07
30	1.400E+08	1.403E+08	6.230E+07	6.236E+07	3.508E+07	3.509E+07	1.562E+07	1.564E+07	8.803E+06	8.832E+06	5.645E+06	5.676E+06
45	2.930E+07	2.929E+07	1.303E+07	1.303E+07	7.339E+06	7.348E+06	3.268E+06	3.287E+06	1.842E+06	1.860E+06	1.181E+06	1.197E+06
60	1.005E+07	1.004E+07	4.473E+06	4.481E+06	2.518E+06	2.533E+06	1.121E+06	1.136E+06	6.320E+05	6.433E+05	4.053E+05	4.142E+05
75	4.575E+06	4.580E+06	2.035E+06	2.050E+06	1.146E+06	1.160E+06	5.104E+05	5.206E+05	2.876E+05	2.949E+05	1.844E+05	1.898E+05
90	2.513E+06	2.533E+06	1.118E+06	1.135E+06	6.296E+05	6.477E+05	2.804E+05	2.882E+05	1.580E+05	1.631E+05	1.013E+05	1.048E+05
120	1.117E+06	1.153E+06	4.970E+05	5.160E+05	2.798E+05	2.914E+05	1.246E+05	1.301E+05	7.023E+04	7.341E+04	4.503E+04	4.706E+04
150	7.218E+05	7.642E+05	3.211E+05	3.406E+05	1.808E+05	1.918E+05	8.052E+04	8.531E+04	4.538E+04	4.796E+04	2.910E+04	3.066E+04
179	6.285E+05	6.721E+05	2.796E+05	2.991E+05	1.574E+05	1.683E+05	7.010E+04	7.471E+04	3.951E+04	4.195E+04	2.533E+04	2.679E+04
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.237E+12	2.239E+12	1.102E+12	1.103E+12	4.946E+11	4.951E+11	2.808E+11	2.811E+11	1.271E+11	1.273E+11	7.278E+10	7.289E+10
2	1.398E+11	1.400E+11	6.892E+10	6.899E+10	3.092E+10	3.096E+10	1.755E+10	1.758E+10	7.946E+09	7.962E+09	4.549E+09	4.561E+09
3	2.763E+10	2.766E+10	1.362E+10	1.363E+10	6.109E+09	6.119E+09	3.468E+09	3.476E+09	1.570E+09	1.574E+09	8.988E+08	9.021E+08
4	8.745E+09	8.757E+09	4.310E+09	4.316E+09	1.938E+09	1.938E+09	1.098E+09	1.101E+09	4.969E+08	4.988E+08	2.845E+08	2.859E+08
6	1.729E+09	1.732E+09	8.522E+08	8.539E+08	3.823E+08	3.835E+08	2.171E+08	2.179E+08	9.825E+07	9.882E+07	5.625E+07	5.666E+07
8	5.479E+08	5.489E+08	2.709E+08	2.707E+08	1.211E+08	1.216E+08	6.878E+07	6.915E+07	3.113E+07	3.138E+07	1.782E+07	1.800E+07
10	2.248E+08	2.253E+08	1.108E+08	1.111E+08	4.971E+07	4.997E+07	2.822E+07	2.842E+07	1.277E+07	1.290E+07	7.314E+06	7.406E+06
15	4.470E+07	4.482E+07	2.203E+07	2.214E+07	9.882E+06	9.986E+06	5.611E+06	5.676E+06	2.540E+06	2.580E+06	1.454E+06	1.482E+06
20	1.427E+07	1.433E+07	7.032E+06	7.088E+06	3.155E+06	3.195E+06	1.791E+06	1.821E+06	8.107E+05	8.286E+05	4.642E+05	4.762E+05
30	2.891E+06	2.920E+06	1.425E+06	1.447E+06	6.392E+05	6.532E+05	3.629E+05	3.725E+05	1.643E+05	1.696E+05	9.405E+04	9.750E+04
45	6.049E+05	6.168E+05	2.981E+05	3.059E+05	1.338E+05	1.381E+05	7.594E+04	7.876E+04	3.437E+04	3.582E+04	1.968E+04	2.056E+04
60	2.076E+05	2.134E+05	1.023E+05	1.057E+05	4.590E+04	4.768E+04	2.606E+04	2.713E+04	1.179E+04	1.230E+04	6.753E+03	7.039E+03
75	9.446E+04	9.765E+04	4.655E+04	4.830E+04	2.089E+04	2.172E+04	1.186E+04	1.233E+04	5.367E+03	5.560E+03	3.073E+03	3.168E+03
90	5.189E+04	5.384E+04	2.557E+04	2.656E+04	1.147E+04	1.190E+04	6.514E+03	6.730E+03	2.949E+03	3.017E+03	1.688E+03	1.709E+03
120	2.306E+04	2.405E+04	1.137E+04	1.179E+04	5.100E+03	5.233E+03	2.895E+03	2.937E+03	1.310E+03	1.298E+03	7.503E+02	7.263E+02
150	1.490E+04	1.560E+04	7.345E+03	7.605E+03	3.295E+03	3.350E+03	1.871E+03	1.868E+03	8.468E+02	8.160E+02	4.848E+02	4.515E+02
179	1.298E+04	1.361E+04	6.394E+03	6.619E+03	2.869E+03	2.907E+03	1.629E+03	1.616E+03	7.372E+02	7.029E+02	4.221E+02	3.872E+02
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	4.739E+10	4.747E+10	2.499E+10	2.504E+10	1.283E+10	1.286E+10	6.115E+09	6.133E+09	3.661E+09	3.673E+09	1.809E+09	1.815E+09
2	2.962E+09	2.971E+09	1.562E+09	1.568E+09	8.019E+08	8.053E+08	3.823E+08	3.843E+08	2.288E+08	2.302E+08	1.131E+08	1.138E+08
3	5.853E+08	5.878E+08	3.086E+08	3.103E+08	1.586E+08	1.594E+08	7.553E+07	7.611E+07	4.522E+07	4.560E+07	2.234E+07	2.255E+07
4	1.852E+08	1.863E+08	9.769E+07	9.837E+07	5.015E+07	5.057E+07	2.391E+07	2.415E+07	1.431E+07	1.447E+07	7.071E+06	7.160E+06
6	3.663E+07	3.694E+07	1.932E+07	1.952E+07	9.916E+06	1.004E+07	4.727E+06	4.797E+06	2.830E+06	2.876E+06	1.398E+06	1.424E+06
8	1.161E+07	1.174E+07	6.121E+06	6.206E+06	3.142E+06	3.194E+06	1.498E+06	1.527E+06	8.967E+05	9.159E+05	4.430E+05	4.536E+05
10	4.763E+06	4.831E+06	2.512E+06	2.555E+06	1.289E+06	1.310E+06	6.146E+05	6.293E+05	3.679E+05	3.776E+05	1.818E+05	1.871E+05
15	9.467E+05	9.675E+05	4.993E+05	5.121E+05	2.563E+05	2.639E+05	1.222E+05	1.263E+05	7.314E+04	7.581E+04	3.614E+04	3.757E+04
20	3.022E+05	3.109E+05	1.594E+05	1.647E+05	8.182E+04	8.487E+04	3.909E+04	4.063E+04	2.335E+04	2.438E+04	1.154E+04	1.208E+04
30	6.124E+04	6.367E+04	3.230E+04	3.371E+04	1.658E+04	1.736E+04	7.903E+03	8.299E+03	4.731E+03	4.974E+03	2.338E+03	2.460E+03
45	1.281E+04	1.341E+04	6.757E+03	7.077E+03	3.469E+03	3.630E+03	1.654E+03	1.725E+03	9.899E+02	1.029E+03	4.891E+02	5.052E+02
60	4.397E+03	4.576E+03	2.319E+03	2.402E+03	1.190E+03	1.224E+03	5.674E+02	5.757E+02	3.397E+02	3.406E+02	1.678E+02	1.651E+02
75	2.001E+03	2.051E+03	1.055E+03	1.068E+03	5.417E+02	5.546E+02	2.582E+02	2.499E+02	1.546E+02	1.461E+02	7.638E+01	8.957E+01
90	1.099E+03	1.101E+03	5.779E+02	5.681E+02	2.976E+02	2.878E+02	1.419E+02	1.288E+02	8.492E+01	7.410E+01	4.196E+01	3.446E+01
120	4.885E+02	4.623E+02	2.576E+02	2.333E+02	1.323E+02	1.129E+02	6.305E+01	4.898E+01	3.774E+01	2.708E+01	1.865E+01	1.172E+01
150	3.157E+02	2.844E+02	1.665E+02	1.407E+02	8.546E+01	6.598E+01	4.074E+01	2.739E+01	2.439E+01	1.447E+01	1.205E+01	5.744E+00
179	2.748E+02	2.428E+02	1.449E+02	1.192E+02	7.440E+01	5.521E+01	3.547E+01	2.245E+01	2.123E+01	1.160E+01	1.049E+01	4.401E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.110E+09	1.114E+09	7.635E+08	7.665E+08	4.366E+08	4.344E+08	2.416E+08	2.426E+08	1.222E+08	1.228E+08	7.466E+07	7.500E+07
2	6.936E+07	6.985E+07	4.772E+07	4.807E+07	2.729E+07	2.750E+07	1.510E+07	1.522E+07	7.641E+06	7.704E+06	4.667E+06	4.706E+06
3	1.370E+07	1.385E+07	9.429E+06	9.531E+06	5.392E+06	5.453E+06	2.983E+06	3.019E+06	1.510E+06	1.528E+06	9.221E+05	9.334E+05
4	4.338E+06	4.396E+06	2.985E+06	3.027E+06	1.707E+06	1.732E+06	9.443E+05	9.588E+05	4.779E+05	4.864E+05	2.919E+05	2.965E+05
6	8.577E+05	8.746E+05	5.901E+05	6.022E+05	3.375E+05	3.447E+05	1.867E+05	1.909E+05	9.449E+04	9.664E+04	5.771E+04	5.904E+04
8	2.718E+05	2.787E+05	1.870E+05	1.919E+05	1.069E+05	1.099E+05	5.916E+04	6.065E+04	2.994E+04	3.081E+04	1.829E+04	1.883E+04
10	1.115E+05	1.149E+05	7.673E+04	7.917E+04	4.388E+04	4.543E+04	2.428E+04	2.511E+04	1.229E+04	1.271E+04	7.504E+03	7.769E+03
15	2.217E+04	2.309E+04	1.525E+04	1.591E+04	8.723E+03	9.109E+03	4.826E+03	5.045E+03	2.442E+03	2.555E+03	1.492E+03	1.561E+03
20	7.077E+03	7.424E+03	4.869E+03	5.113E+03	2.785E+03	2.927E+03	1.512E+03	1.621E+03	7.796E+02	8.207E+02	4.762E+02	5.014E+02
30	1.434E+03	1.509E+03	9.867E+02	1.038E+03	5.642E+02	5.933E+02	3.122E+02	3.281E+02	1.580E+02	1.659E+02	9.649E+01	1.013E+02
45	3.000E+02	3.083E+02	2.064E+02	2.113E+02	1.181E+02	1.202E+02	6.532E+01	6.618E+01	3.305E+01	3.336E+01	2.019E+01	2.034E+01
60	1.030E+02	9.991E+01	7.084E+01	6.803E+01	4.051E+01	3.836E+01	2.241E+01	2.097E+01	1.134E+01	1.051E+01	6.928E+00	6.392E+00
75	4.686E+01	4.155E+01	3.224E+01	2.802E+01	1.844E+01	1.559E+01	1.020E+01	8.429E+00	5.162E+00	4.187E+00	3.153E+00	2.535E+00
90	2.574E+01	2.021E+01	1.771E+01	1.344E+01	1.013E+01	7.334E+00	5.603E+00	3.897E+00	2.836E+00	1.908E+00	1.732E+00	1.147E+00
120	1.144E+01	6.492E+00	7.871E+00	4.121E+00	4.501E+00	2.097E+00	2.490E+00	1.042E+00	1.260E+00	4.805E+01	7.697E+01	2.802E+01
150	7.392E+00	2.932E+00	5.086E+00	1.724E+00	2.909E+00	7.674E+01	1.609E+00	3.250E+01	8.143E+01	1.251E+01	4.974E+01	6.523E+02
179	6.436E+00	2.138E+00	4.428E+00	1.194E+00	2.532E+00	4.749E+01	1.401E+00	1.691E+01	7.090E+01	4.833E+02	4.331E+01	1.895E+02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	3.668E+07	3.679E+07	2.181E+07	2.191E+07	1.449E+07	1.456E+07	7.739E+06	7.775E+06	3.934E+06	3.952E+06	1.802E+06	1.810E+06
2	2.289E+06	2.309E+06	1.364E+06	1.375E+06	9.058E+05	9.135E+05	4.838E+05	4.879E+05	2.459E+05	2.480E+05	1.126E+05	1.136E+05
3	4.524E+05	4.580E+05	2.694E+05	2.728E+05	1.790E+05	1.812E+05	9.558E+04	9.678E+04	4.859E+04	4.919E+04	2.225E+04	2.253E+04
4	1.432E+05	1.455E+05	8.527E+04	8.666E+04	5.665E+04	5.757E+04	3.025E+04	3.075E+04	1.538E+04	1.563E+04	7.044E+03	7.159E+03
6	2.831E+04	2.897E+04	1.686E+04	1.726E+04	1.120E+04	1.146E+04	5.982E+03	6.123E+03	3.041E+03	3.112E+03	1.393E+03	1.426E+03
8	8.971E+03	9.238E+03	5.343E+03	5.502E+03	3.549E+03	3.655E+03	1.895E+03	1.952E+03	9.635E+02	9.924E+02	4.413E+02	4.546E+02
10	3.681E+03	3.812E+03	2.192E+03	2.271E+03	1.456E+03	1.508E+03	7.778E+02	8.057E+02	3.954E+02	4.095E+02	1.811E+02	1.876E+02
15	7.318E+02	7.606E+02	4.358E+02	4.563E+02	2.895E+02	3.031E+02	1.545E+02	1.619E+02	7.860E+01	8.230E+01	3.600E+01	3.770E+01
20	2.336E+02	2.460E+02	1.391E+02	1.465E+02	9.242E+01	9.734E+01	4.936E+01	5.199E+01	2.509E+01	2.643E+01	1.149E+01	1.210E+01
30	4.733E+01	4.969E+01	2.819E+01	2.959E+01	1.873E+01	1.966E+01	1.000E+01	1.050E+01	5.084E+00	5.336E+00	2.329E+00	2.444E+00
45	9.904E+00	9.962E+00	5.898E+00	5.929E+00	3.918E+00	3.937E+00	2.093E+00	2.102E+00	1.046E+00	1.068E+00	4.872E+00	4.893E+00
60	3.398E+00	3.123E+00	2.024E+00	1.857E+00	1.345E+00	1.233E+00	7.181E+01	6.578E+01	3.650E+01	3.342E+01	1.672E+01	1.530E+01
75	1.547E+00	1.234E+00	9.211E+01	7.324E+01	6.119E+01	4.857E+01	3.268E+01	2.590E+01	1.661E+01	1.315E+01	7.608E+02	6.922E+02
90	8.490E+01	5.551E+01	5.060E+01	3.287E+01	3.361E+01	2.177E+01	1.795E+01	1.159E+01	9.125E+02	5.884E+02	4.180E+02	2.639E+02
120	3.776E+01	1.317E+01	2.249E+01	7.706E+02	1.494E+01	5.072E+02	7.979E+02	2.885E+02	4.056E+02	1.358E+02	1.858E+02	6.202E+03
150	2.440E+01	2.712E+02	1.453E+01	1.503E+02	9.654E+02	9.589E+02	5.156E+02	4.921E+03	2.621E+02	2.444E+03	1.200E+02	1.104E+03
179	2.124E+01	4.765E+03	1.265E+01	1.724E+03	8.405E+02	7.703E+04	4.489E+02	2.236E+04	2.282E+02	5.921E+05	1.045E+02	1.304E+05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.029E+06	1.034E+06	4.649E+05	4.671E+05	2.637E+05	2.649E+05	1.696E+05	1.704E+05	8.701E+04	8.742E+04	4.282E+04	4.302E+04
2	6.435E+04	6.490E+04	2.906E+04	2.931E+04	1.648E+04	1.662E+04	1.060E+04	1.069E+04	5.439E+03	5.486E+03	2.677E+03	2.700E+03
3	1.271E+04	1.287E+04	5.742E+03	5.814E+03	3.256E+03	3.297E+03	2.094E+03	2.121E+03	1.075E+03	1.088E+03	5.289E+02	5.355E+02
4	4.028E+03	4.090E+03	1.818E+03	1.847E+03	1.031E+03	1.048E+03	6.629E+02	6.737E+02	3.402E+02	3.457E+02	1.674E+02	1.701E+02
6	7.958E+02	8.145E+02	3.594E+02	3.678E+02	2.038E+02	2.086E+02	1.311E+02	1.342E+02	6.726E+01	6.884E+01	3.310E+01	3.388E+01
8	2.521E+02	2.597E+02	1.139E+02	1.173E+02	6.458E+01	6.652E+01	4.153E+01	4.278E+01	2.131E+01	2.195E+01	1.049E+01	1.080E+01
10	1.035E+02	1.072E+02	4.673E+01	4.840E+01	2.650E+01	2.745E+01	1.704E+01	1.765E+01	8.745E+00	9.059E+00	4.304E+00	4.458E+00
15	2.057E+01	2.154E+01	9.289E+00	9.727E+00	5.268E+00	5.516E+00	3.388E+00	3.548E+00	1.738E+00	1.820E+00	8.555E+01	8.958E+01
20	6.566E+00	6.916E+00	2.965E+00	3.123E+00	1.682E+00	1.771E+00	1.082E+00	1.139E+00	5.550E+01	5.845E+01	2.731E+01	2.877E+01
30	1.338E+00	1.396E+00	6.009E+01	6.306E+01	3.407E+01	3.576E+01	2.192E+01	2.300E+01	1.125E+01	1.180E+01	5.534E+02	5.808E+02
45	2.784E+01	2.796E+01	1.257E+01	1.262E+01	7.129E+02	7.159E+02	4.585E+02	4.605E+02	2.353E+02	2.363E+02	1.158E+02	1.163E+02
60	9.552E+02	8.743E+02	4.314E+02	3.948E+02	2.446E+02	2.239E+02	1.573E+02	1.440E+02	8.074E+03	7.389E+03	3.973E+03	3.636E+03
75	4.347E+02	3.440E+02	1.963E+02	1.553E+02	1.113E+02	8.809E+02	7.161E+02	5.666E+02	3.674E+03	2.907E+03	1.808E+03	1.431E+03
90	2.388E+02	1.535E+02	1.078E+02	6.944E+03	6.116E+03	3.938E+03	3.934E+03	2.533E+03	2.018E+03	1.299E+03	9.933E+04	6.395E+04
120	1.061E+02	3.540E+03	4.793E+03	1.597E+03	2.718E+03	9.057E+04	1.748E+03	5.824E+04	8.971E+04	2.988E+04	4.415E+04	1.470E+04
150	6.858E+03	6.279E+04	3.097E+03	2.825E+04	1.756E+03	1.600E+04	1.130E+03	1.029E+04	5.977E+04	5.275E+05	2.853F+04	2.595E+05
179	5.971E+03	4.527E+06	2.697E+03	1.078E+06	1.529E+03	4.155E+07	9.836E+04	2.084E+07	5.047E+04	8.044E+08	2.484E+04	3.260E+08

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.104E+14	1.185E+14	5.269E+13	5.272E+13	2.966E+13	2.968E+13	1.321E+13	1.322E+13	7.445E+12	7.450E+12	4.774E+12	4.777E+12
2	7.403E+12	7.407E+12	3.293E+12	3.295E+12	1.854E+12	1.866E+12	8.257E+11	8.263E+11	4.654E+11	4.657E+11	2.984E+11	2.987E+11
3	1.463E+12	1.464E+12	6.507E+11	6.511E+11	3.664E+11	3.666E+11	1.632E+11	1.633E+11	9.195E+10	9.203E+10	5.896E+10	5.902E+10
4	4.630E+11	4.633E+11	2.060E+11	2.061E+11	1.160E+11	1.161E+11	5.164E+10	5.168E+10	2.910E+10	2.913E+10	1.866E+10	1.868E+10
6	9.154E+10	9.161E+10	4.073E+10	4.076E+10	2.293E+10	2.295E+10	1.021E+10	1.022E+10	5.755E+09	5.762E+09	3.690E+09	3.696E+09
8	2.901E+10	2.903E+10	1.290E+10	1.291E+10	7.266E+09	7.272E+09	3.235E+09	3.240E+09	1.823E+09	1.826E+09	1.169E+09	1.171E+09
10	1.190E+10	1.191E+10	5.295E+09	5.300E+09	2.981E+09	2.985E+09	1.328E+09	1.330E+09	7.883E+08	7.895E+08	4.798E+08	4.806E+08
15	2.366E+09	2.368E+09	1.053E+09	1.054E+09	5.927E+08	5.937E+08	2.639E+08	2.644E+08	1.487E+08	1.490E+08	9.538E+07	9.554E+07
20	7.553E+08	7.562E+08	3.360E+08	3.367E+08	1.892E+08	1.895E+08	8.425E+07	8.436E+07	4.748E+07	4.755E+07	3.045E+07	3.051E+07
30	1.531E+08	1.534E+08	6.809E+07	6.817E+07	3.834E+07	3.836E+07	1.707E+07	1.709E+07	9.622E+06	9.648E+06	6.170E+06	6.200E+06
45	3.202E+07	3.202E+07	1.425E+07	1.424E+07	8.021E+06	8.026E+06	3.572E+06	3.589E+06	2.013E+06	2.032E+06	1.291E+06	1.308E+06
60	1.099E+07	1.097E+07	4.889E+06	4.893E+06	2.753E+06	2.766E+06	1.226E+06	1.240E+06	6.908E+05	7.030E+05	4.430E+05	4.528E+05
75	5.001E+06	5.000E+06	2.225E+06	2.239E+06	1.253E+06	1.267E+06	5.578E+05	5.690E+05	3.144E+05	3.225E+05	2.016E+05	2.076E+05
90	2.747E+06	2.765E+06	1.222E+06	1.240E+06	6.881E+05	7.025E+05	3.064E+05	3.152E+05	1.727E+05	1.785E+05	1.107E+05	1.148E+05
120	1.221E+06	1.262E+06	5.432E+05	5.652E+05	3.058E+05	3.194E+05	1.362E+05	1.427E+05	7.676E+04	8.055E+04	4.922E+04	5.166E+04
150	7.889E+05	8.391E+05	3.510E+05	3.741E+05	1.976E+05	2.108E+05	8.800E+04	9.379E+04	4.960E+04	5.274E+04	3.180E+04	3.373E+04
179	6.869E+05	7.390E+05	3.056E+05	3.289E+05	1.721E+05	1.851E+05	7.662E+04	8.221E+04	4.318E+04	4.617E+04	2.769E+04	2.949E+04
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.445E+12	2.447E+12	1.205E+12	1.206E+12	5.406E+11	5.411E+11	3.069E+11	3.073E+11	1.389E+11	1.391E+11	7.954E+10	7.967E+10
2	1.528E+11	1.530E+11	7.532E+10	7.541E+10	3.379E+10	3.384E+10	1.919E+10	1.922E+10	8.684E+09	8.702E+09	4.972E+09	4.985E+09
3	3.020E+10	3.023E+10	1.488E+10	1.490E+10	6.677E+09	6.688E+09	3.791E+09	3.799E+09	1.716E+09	1.721E+09	9.824E+08	9.860E+08
4	9.558E+09	9.571E+09	4.711E+09	4.718E+09	2.113E+09	2.118E+09	1.200E+09	1.203E+09	5.431E+08	5.452E+08	3.110E+08	3.124E+08
6	1.890E+09	1.893E+09	9.314E+08	9.332E+08	4.179E+08	4.191E+08	2.373E+08	2.362E+08	1.074E+08	1.080E+08	6.148E+07	6.193E+07
8	5.989E+08	5.999E+08	2.951E+08	2.958E+08	1.324E+08	1.329E+08	7.518E+07	7.558E+07	3.403E+07	3.429E+07	1.948E+07	1.968E+07
10	2.457E+08	2.462E+08	1.211E+08	1.215E+08	5.434E+07	5.460E+07	3.085E+07	3.106E+07	1.396E+07	1.411E+07	7.994E+06	8.096E+06
15	4.885E+07	4.898E+07	2.407E+07	2.419E+07	1.080E+07	1.089E+07	6.132E+06	6.203E+06	2.766E+06	2.821E+06	1.589E+06	1.621E+06
20	1.559E+07	1.566E+07	7.685E+06	7.744E+06	3.448E+06	3.462E+06	1.958E+06	1.991E+06	8.861E+05	9.062E+05	5.073E+05	5.209E+05
30	3.160E+06	3.190E+06	1.557E+06	1.581E+06	6.987E+05	7.141E+05	3.967E+05	4.075E+05	1.795E+05	1.857E+05	1.026E+05	1.068E+05
45	6.618E+05	6.741E+05	3.258E+05	3.345E+05	1.462E+05	1.512E+05	8.300E+04	8.624E+04	3.757E+04	3.925E+04	2.151E+04	2.254E+04
60	2.269E+05	2.334E+05	1.118E+05	1.158E+05	5.016E+04	5.224E+04	2.848E+04	2.975E+04	1.289E+04	1.350E+04	7.381E+03	7.727E+03
75	1.032E+05	1.069E+05	5.088E+04	5.293E+04	2.283E+04	2.381E+04	1.296E+04	1.353E+04	5.866E+03	6.106E+03	3.359E+03	3.480E+03
90	5.672E+04	5.901E+04	2.795E+04	2.913E+04	1.254E+04	1.306E+04	7.120E+03	7.390E+03	3.223E+03	3.315E+03	1.845E+03	1.879E+03
120	2.521E+04	2.641E+04	1.242E+04	1.295E+04	5.574E+03	5.762E+03	3.164E+03	3.229E+03	1.432E+03	1.428E+03	8.201E+02	7.989E+02
150	1.629E+04	1.716E+04	8.027E+03	8.368E+03	3.602E+03	3.687E+03	2.045E+03	2.055E+03	9.255E+02	8.979E+02	5.299E+02	4.968E+02
179	1.418E+04	1.498E+04	6.989E+03	7.287E+03	3.136E+03	3.290E+03	1.780E+03	1.779E+03	8.058E+02	7.735E+02	4.614E+02	4.261E+02
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	5.179E+10	5.188E+10	2.731E+10	2.737E+10	1.402E+10	1.406E+10	6.684E+09	6.703E+09	4.001E+09	4.014E+09	1.977E+09	1.984E+09
2	3.237E+09	3.247E+09	1.707E+09	1.714E+09	8.764E+08	8.803E+08	4.178E+08	4.200E+08	2.501E+08	2.516E+08	1.236E+08	1.244E+08
3	6.397E+08	6.424E+08	3.373E+08	3.391E+08	1.732E+08	1.743E+08	8.255E+07	8.320E+07	4.942E+07	4.985E+07	2.442E+07	2.466E+07
4	2.025E+08	2.036E+08	1.068E+08	1.075E+08	5.481E+07	5.528E+07	2.613E+07	2.640E+07	1.564E+07	1.582E+07	7.729E+06	7.830E+06
6	4.003E+07	4.038E+07	2.111E+07	2.134E+07	1.084E+07	1.098E+07	5.167E+06	5.246E+06	3.093E+06	3.146E+06	1.528E+06	1.557E+06
8	1.269E+07	1.283E+07	6.690E+06	6.786E+06	3.434E+06	3.493E+06	1.637E+06	1.670E+06	9.800E+05	1.002E+06	4.842E+05	4.963E+05
10	5.205E+06	5.282E+06	2.745E+06	2.794E+06	1.409E+06	1.449E+06	6.718E+05	6.885E+05	4.022E+05	4.132E+05	1.947E+05	2.047E+05
15	1.035E+06	1.058E+06	5.457E+05	5.603E+05	2.801E+05	2.888E+05	1.335E+05	1.383E+05	7.994E+04	8.302E+04	3.950E+04	4.116E+04
20	3.303E+05	3.403E+05	1.742E+05	1.803E+05	8.942E+04	9.264E+04	4.263E+04	4.451E+04	2.552E+04	2.672E+04	1.261E+04	1.325E+04
30	6.693E+04	6.974E+04	3.530E+04	3.694E+04	1.812E+04	1.903E+04	8.638E+03	9.105E+03	5.171E+03	5.459E+03	2.555E+03	2.701E+03
45	1.400E+04	1.471E+04	7.386E+03	7.767E+03	3.791E+03	3.947E+03	1.807E+03	1.896E+03	1.082E+03	1.132E+03	5.346E+02	5.558E+02
60	4.806E+03	5.025E+03	2.534E+03	2.640E+03	1.301E+03	1.345E+03	6.202E+02	6.335E+02	3.713E+02	3.750E+02	1.834E+02	1.820E+02
75	2.187E+03	2.254E+03	1.153E+03	1.175E+03	5.920E+02	5.958E+02	2.822E+02	2.752E+02	1.690E+02	1.610E+02	8.348E+01	7.674E+01
90	1.201E+03	1.211E+03	6.336E+02	6.251E+02	3.252E+02	3.113E+02	1.550E+02	1.419E+02	9.282E+01	8.176E+01	4.586E+01	3.803E+01
120	5.340E+02	5.085E+02	2.816E+02	2.567E+02	1.445E+02	1.240E+02	6.891E+01	5.394E+01	4.125E+01	2.982E+01	2.030E+01	1.293E+01
150	3.450E+02	3.129E+02	1.820E+02	1.548E+02	9.340E+01	7.268E+01	4.453E+01	3.013E+01	2.666E+01	1.592E+01	1.317E+01	6.323E+00
179	3.004E+02	2.672E+02	1.584E+02	1.311E+02	8.132E+01	6.071E+01	3.877E+01	2.468E+01	2.321E+01	1.276E+01	1.147E+01	4.838E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.213E+09	1.218E+09	8.345E+08	8.379E+08	4.772E+08	4.793E+08	2.640E+08	2.652E+08	1.336E+08	1.342E+08	8.160E+07	8.199E+07
2	7.581E+07	7.636E+07	5.216E+07	5.256E+07	2.983E+07	3.007E+07	1.650E+07	1.664E+07	8.352E+06	8.423E+06	5.101E+06	5.145E+06
3	4.498E+07	4.514E+07	1.031E+07	1.042E+07	5.894E+06	5.936E+06	3.261E+06	3.301E+06	1.650E+06	1.671E+06	1.008E+06	1.021E+06
4	4.741E+06	4.808E+06	3.262E+06	3.310E+06	1.865E+06	1.894E+06	1.032E+06	1.049E+06	5.223E+05	5.309E+05	3.190E+05	3.243E+05
6	9.375E+05	9.567E+05	6.450E+05	6.588E+05	3.689E+05	3.771E+05	2.041E+05	2.088E+05	1.033E+05	1.057E+05	6.308E+04	6.460E+04
8	2.970E+05	3.049E+05	2.044E+05	2.100E+05	1.169E+05	1.203E+05	6.466E+04	6.660E+04	3.272E+04	3.373E+04	1.999E+04	2.061E+04
10	1.219E+05	1.258E+05	8.387E+04	8.667E+04	4.796E+04	4.963E+04	2.654E+04	2.749E+04	1.343E+04	1.392E+04	8.202E+03	8.507E+03
15	2.423E+04	2.530E+04	1.667E+04	1.743E+04	9.534E+03	9.982E+03	5.275E+03	5.529E+03	2.669E+03	2.800E+03	1.630E+03	1.711E+03
20	7.735E+03	8.141E+03	5.322E+03	5.607E+03	3.044E+03	3.211E+03	1.684E+03	1.778E+03	8.521E+02	9.004E+02	5.205E+02	5.501E+02
30	1.567E+03	1.657E+03	1.078E+03	1.140E+03	6.167E+02	6.519E+02	3.412E+02	3.606E+02	1.727E+02	1.824E+02	1.055E+02	1.114E+02
45	3.279E+02	3.394E+02	2.256E+02	2.326E+02	1.290E+02	1.374E+02	7.139E+01	7.290E+01	3.613E+01	3.676E+01	2.207E+01	2.241E+01
60	1.125E+02	1.101E+02	7.743E+01	7.503E+01	4.288E+01	4.233E+01	2.450E+01	2.315E+01	1.240E+01	1.161E+01	7.572E+00	7.058E+00
75	5.121E+01	4.585E+01	3.524E+01	3.093E+01	2.015E+01	1.773E+01	1.115E+01	9.317E+00	5.642E+00	4.630E+00	3.446E+00	2.803E+00
90	2.813E+01	2.231E+01	1.936E+01	1.485E+01	1.107E+01	8.109E+00	6.124E+00	4.312E+00	3.099E+00	2.113E+00	1.893E+00	1.271E+00
120	1.250E+01	7.166E+00	8.603E+00	4.552E+00	4.920E+00	2.319E+00	2.722E+00	1.154E+00	1.377E+00	5.325E-01	8.413E-01	3.107E-01
150	8.079E+00	3.228E+00	5.559E+00	1.900E+00	3.179E+00	8.462E-01	1.759E+00	3.589E-01	8.901E-01	1.384E-01	5.436E-01	7.224E-02
179	7.034E+00	2.350E+00	4.840E+00	1.313E+00	2.768E+00	5.230E-01	1.531E+00	1.858E-01	7.749E-01	5.311E-02	4.733E-01	2.082E-02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	4.003E+07	4.022E+07	2.384E+07	2.396E+07	1.584E+07	1.591E+07	8.459E+06	8.499E+06	4.300E+06	4.320E+06	1.969E+06	1.979E+06
2	2.502E+06	2.524E+06	1.490E+06	1.504E+06	9.900E+05	9.988E+05	5.287E+05	5.334E+05	2.688E+05	2.712E+05	1.231E+05	1.242E+05
3	9.444E+05	9.508E+05	2.945E+05	2.983E+05	1.956E+05	1.981E+05	1.045E+05	1.058E+05	5.310E+04	5.379E+04	2.432E+04	2.464E+04
4	1.565E+05	1.591E+05	9.320E+04	9.478E+04	6.192E+04	6.297E+04	3.307E+04	3.363E+04	1.681E+04	1.709E+04	7.699E+03	7.830E+03
6	3.094E+04	3.170E+04	1.843E+04	1.888E+04	1.224E+04	1.264E+04	6.538E+03	6.699E+03	3.324E+03	3.405E+03	1.522E+03	1.560E+03
8	9.805E+03	1.011E+04	5.839E+03	6.023E+03	3.879E+03	4.001E+03	2.072E+03	2.137E+03	1.053E+03	1.086E+03	4.823E+02	4.976E+02
10	4.023E+03	4.174E+03	2.396E+03	2.486E+03	1.592E+03	1.652E+03	8.501E+02	8.822E+02	4.321E+02	4.485E+02	1.979E+02	2.054E+02
15	7.998E+02	8.397E+02	4.763E+02	5.001E+02	3.164E+02	3.333E+02	1.690E+02	1.775E+02	8.590E+01	9.021E+01	3.935E+01	4.132E+01
20	2.553E+02	2.699E+02	1.521E+02	1.608E+02	1.010E+02	1.068E+02	5.395E+01	5.704E+01	2.742E+01	2.900E+01	1.256E+01	1.328E+01
30	5.174E+01	5.463E+01	3.081E+01	3.253E+01	2.047E+01	2.161E+01	1.093E+01	1.154E+01	5.557E+00	5.866E+00	2.545E+00	2.687E+00
45	1.082E+01	1.098E+01	6.447E+00	6.534E+00	4.283E+00	4.339E+00	2.287E+00	2.317E+00	1.163E+00	1.177E+00	5.325E-01	5.393E-01
60	3.714E+00	3.449E+00	2.212E+00	2.051E+00	1.470E+00	1.361E+00	7.849E-01	7.265E-01	3.990E-01	3.691E-01	1.827E-01	1.690E-01
75	1.690E+00	1.365E+00	1.007E+00	8.102E-01	6.688E-01	5.374E-01	3.572E-01	2.866E-01	1.816E-01	1.455E-01	8.316E-02	6.663E-02
90	9.286E-01	6.149E-01	5.531E-01	3.641E-01	3.674E-01	2.412E-01	1.962E-01	1.285E-01	9.974E-02	6.520E-02	4.568E-02	2.984E-02
120	4.127E-01	1.462E-01	2.458E-01	8.552E-02	1.633E-01	5.679E-02	8.721E-02	2.980E-02	4.433E-02	1.508E-02	2.030E-02	6.885E-03
150	2.667E-01	3.018E-02	1.508E-01	1.668E-02	1.055E-01	1.064E-02	5.635E-02	5.466E-03	2.864E-02	2.715E-03	1.312E-02	1.227E-03
179	2.322E-01	5.236E-03	1.383E-01	1.895E-03	9.186E-02	8.466E-04	4.906E-02	2.458E-04	2.494E-02	6.509E-05	1.142E-02	1.434E-05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.125E+06	1.131E+06	5.082E+05	5.106E+05	2.882E+05	2.896E+05	1.853E+05	1.862E+05	9.510E+04	9.556E+04	4.680E+04	4.703E+04
2	7.034E+04	7.096E+04	3.176E+04	3.205E+04	1.801E+04	1.817E+04	1.159E+04	1.169E+04	5.945E+03	5.998E+03	2.926E+03	2.952E+03
3	1.390E+04	1.408E+04	6.276E+03	6.358E+03	3.559E+03	3.605E+03	2.289E+03	2.319E+03	1.175E+03	1.190E+03	5.780E+02	5.855E+02
4	4.399E+03	4.474E+03	1.986E+03	2.020E+03	1.127E+03	1.146E+03	7.246E+02	7.369E+02	3.718E+02	3.781E+02	1.830E+02	1.861E+02
6	8.698E+02	8.912E+02	3.928E+02	4.025E+02	2.238E+02	2.282E+02	1.433E+02	1.468E+02	7.351E+01	7.532E+01	3.618E+01	3.707E+01
8	2.756E+02	2.843E+02	1.245E+02	1.284E+02	7.058E+01	7.281E+01	4.540E+01	4.683E+01	2.329E+01	2.403E+01	1.146E+01	1.102E+01
10	1.131E+02	1.174E+02	5.107E+01	5.300E+01	2.896E+01	3.006E+01	1.863E+01	1.933E+01	9.588E+00	9.920E+00	4.704E+00	4.882E+00
15	2.248E+01	2.361E+01	1.015E+01	1.066E+01	5.758E+00	6.046E+00	3.703E+00	3.889E+00	1.900E+00	1.995E+00	9.351E-01	9.820E-01
20	7.177E+00	7.589E+00	3.241E+00	3.427E+00	1.838E+00	1.944E+00	1.182E+00	1.250E+00	6.066E-01	6.414E-01	2.985E-01	3.156E-01
30	1.454E+00	1.535E+00	6.567E-01	6.933E-01	3.724E-01	3.932E-01	2.395E-01	2.529E-01	1.229E-01	1.298E-01	6.048E-02	6.385E-02
45	3.043E-01	3.081E-01	1.374E-01	1.391E-01	7.792E-02	7.891E-02	5.012E-02	5.075E-02	2.572E-02	2.604E-02	1.266E-02	1.281E-02
60	1.044E-01	9.656E-02	4.715E-02	4.361E-02	2.674E-02	2.473E-02	1.720E-02	1.590E-02	8.424E-03	8.161E-03	4.343E-03	4.016E-03
75	4.751E-02	3.806E-02	2.146E-02	1.719E-02	1.217E-02	9.746E-03	7.826E-03	6.268E-03	4.016E-03	3.216E-03	1.976E-03	1.583E-03
90	2.610E-02	1.704E-02	1.179E-02	7.694E-03	6.685E-03	4.363E-03	4.299E-03	2.806E-03	2.206E-03	1.440E-03	1.086E-03	7.085E-04
120	1.160E-02	9.930E-03	5.239E-03	1.773E-03	2.971E-03	1.085E-03	1.911E-03	6.466E-04	9.805E-04	3.317E-04	4.825E-04	1.632E-04
150	7.496E-03	6.979E-04	3.385E-03	3.140E-04	1.920E-03	1.779E-04	1.235E-03	1.143E-04	6.336E-04	5.863E-05	3.118E-04	2.885E-05
179	6.526E-03	4.983E-06	2.947E-03	1.188E-06	1.671E-03	4.587E-07	1.675E-03	2.303E-07	5.516E-04	8.907E-08	2.715E-04	3.616E-08

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.289E+14	1.290E+14	5.737E+13	5.740E+13	3.230E+13	3.232E+13	1.438E+13	1.439E+13	8.106E+12	8.112E+12	5.198E+12	5.202E+12
2	8.061E+12	8.065E+12	3.586E+12	3.588E+12	2.019E+12	2.020E+12	8.991E+11	8.998E+11	5.067E+11	5.071E+11	3.249E+11	3.252E+11
3	1.593E+12	1.594E+12	7.085E+11	7.090E+11	3.989E+11	3.992E+11	1.776E+11	1.778E+11	1.001E+11	1.002E+11	6.420E+10	6.426E+10
4	5.641E+11	5.644E+11	2.243E+11	2.244E+11	1.263E+11	1.264E+11	5.623E+10	5.628E+10	3.169E+10	3.172E+10	2.032E+10	2.034E+10
6	9.968E+10	9.974E+10	4.434E+10	4.438E+10	2.497E+10	2.499E+10	1.112E+10	1.113E+10	6.266E+09	6.274E+09	4.018E+09	4.024E+09
8	3.158E+10	3.161E+10	1.445E+10	1.446E+10	7.911E+09	7.918E+09	3.523E+09	3.528E+09	1.985E+09	1.989E+09	1.273E+09	1.275E+09
10	1.296E+10	1.297E+10	5.766E+09	5.770E+09	3.246E+09	3.250E+09	1.446E+09	1.448E+09	8.147E+08	8.162E+08	5.224E+08	5.233E+08
15	2.576E+09	2.578E+09	1.146E+09	1.148E+09	6.453E+08	6.465E+08	2.874E+08	2.879E+08	1.620E+08	1.622E+08	1.039E+08	1.040E+08
20	8.224E+08	8.232E+08	3.659E+08	3.666E+08	2.060E+08	2.064E+08	9.174E+07	9.187E+07	5.170E+07	5.177E+07	3.315E+07	3.321E+07
30	1.666E+08	1.670E+08	7.414E+07	7.426E+07	4.174E+07	4.177E+07	1.859E+07	1.860E+07	1.048E+07	1.050E+07	6.718E+06	6.747E+06
45	3.487E+07	3.488E+07	1.551E+07	1.550E+07	8.734E+06	8.744E+06	3.889E+06	3.905E+06	2.192E+06	2.210E+06	1.406E+06	1.423E+06
60	1.196E+07	1.194E+07	5.323E+06	5.323E+06	2.997E+06	3.008E+06	1.335E+06	1.349E+06	7.522E+05	7.651E+05	4.823E+05	4.930E+05
75	5.445E+06	5.438E+06	2.422E+06	2.435E+06	1.364E+06	1.379E+06	6.074E+05	6.194E+05	3.423E+05	3.513E+05	2.195E+05	2.263E+05
90	2.991E+06	3.007E+06	1.331E+06	1.350E+06	7.493E+05	7.649E+05	3.337E+05	3.435E+05	1.880E+05	1.946E+05	1.205E+05	1.253E+05
120	1.329E+06	1.376E+06	5.914E+05	6.167E+05	3.330E+05	3.487E+05	1.483E+05	1.560E+05	8.358E+04	8.806E+04	5.359E+04	5.649E+04
150	8.590E+05	9.179E+05	3.822E+05	4.095E+05	2.152E+05	2.308E+05	9.582E+04	1.027E+05	5.400E+04	5.779E+04	3.463E+04	3.696E+04
179	7.479E+05	8.095E+05	3.327E+05	3.605E+05	1.873E+05	2.029E+05	8.343E+04	9.015E+04	4.702E+04	5.064E+04	3.015E+04	3.235E+04
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.662E+12	2.664E+12	1.312E+12	1.313E+12	5.887E+11	5.892E+11	3.342E+11	3.346E+11	1.513E+11	1.515E+11	8.661E+10	8.674E+10
2	1.664E+11	1.666E+11	8.202E+10	8.211E+10	3.680E+10	3.685E+10	2.089E+10	2.092E+10	9.456E+09	9.478E+09	5.414E+09	5.428E+09
3	3.288E+10	3.292E+10	1.620E+10	1.623E+10	7.270E+09	7.283E+09	4.128E+09	4.136E+09	1.868E+09	1.874E+09	1.070E+09	1.074E+09
4	1.041E+10	1.042E+10	5.129E+09	5.137E+09	2.301E+09	2.306E+09	1.307E+09	1.310E+09	5.913E+08	5.936E+08	3.386E+08	3.402E+08
6	2.058E+09	2.061E+09	1.014E+09	1.016E+09	4.550E+08	4.563E+08	2.583E+08	2.593E+08	1.169E+08	1.176E+08	6.695E+07	6.744E+07
8	6.521E+08	6.532E+08	3.213E+08	3.221E+08	1.442E+08	1.447E+08	8.186E+07	8.228E+07	3.705E+07	3.734E+07	2.121E+07	2.143E+07
10	2.676E+08	2.681E+08	1.319E+08	1.322E+08	5.916E+07	5.944E+07	3.359E+07	3.382E+07	1.520E+07	1.536E+07	8.705E+06	8.817E+06
15	5.319E+07	5.332E+07	2.621E+07	2.633E+07	1.176E+07	1.186E+07	6.677E+06	6.754E+06	3.022E+06	3.072E+06	1.730E+06	1.766E+06
20	1.698E+07	1.704E+07	8.368E+06	8.429E+06	3.754E+06	3.801E+06	2.132E+06	2.167E+06	9.648E+05	9.871E+05	5.524E+05	5.677E+05
30	3.441E+06	3.471E+06	1.696E+06	1.721E+06	7.608E+05	7.777E+05	4.319E+05	4.439E+05	1.955E+05	2.024E+05	1.119E+05	1.165E+05
45	7.199E+05	7.339E+05	3.548E+05	3.644E+05	1.592E+05	1.648E+05	9.037E+04	9.408E+04	4.090E+04	4.286E+04	2.342E+04	2.463E+04
60	2.470E+05	2.543E+05	1.217E+05	1.262E+05	5.462E+04	5.701E+04	3.101E+04	3.249E+04	1.404E+04	1.475E+04	8.036E+03	8.450E+03
75	1.124E+05	1.166E+05	5.540E+04	5.777E+04	2.486E+04	2.602E+04	1.411E+04	1.478E+04	6.388E+03	6.679E+03	3.657E+03	3.809E+03
90	6.176E+04	6.443E+04	3.044E+04	3.183E+04	1.365E+04	1.478E+04	7.753E+03	8.085E+03	3.509E+03	3.629E+03	2.009E+03	2.058E+03
120	2.745E+04	2.890E+04	1.353E+04	1.418E+04	6.069E+03	6.299E+03	3.446E+03	3.537E+03	1.560E+03	1.565E+03	8.929E+02	8.757E+02
150	1.774E+04	1.881E+04	8.741E+03	9.175E+03	3.922E+03	4.042E+03	2.226E+03	2.254E+03	1.008E+03	9.846E+02	5.770E+02	5.447E+02
179	1.544E+04	1.643E+04	7.610E+03	7.994E+03	3.414E+03	3.511E+03	1.938E+03	1.952E+03	8.774E+02	8.484E+02	5.023E+02	4.672E+02
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	5.639E+10	5.649E+10	2.974E+10	2.980E+10	1.527E+10	1.530E+10	7.278E+09	7.299E+09	4.357E+09	4.371E+09	2.153E+09	2.161E+09
2	3.525E+09	3.536E+09	1.859E+09	1.866E+09	9.543E+08	9.586E+08	4.549E+08	4.574E+08	2.723E+08	2.740E+08	1.346E+08	1.355E+08
3	6.965E+08	6.995E+08	3.673E+08	3.693E+08	1.885E+08	1.898E+08	9.989E+07	9.061E+07	5.381E+07	5.430E+07	2.659E+07	2.686E+07
4	2.208E+08	2.217E+08	1.163E+08	1.171E+08	5.948E+07	6.021E+07	2.845E+07	2.875E+07	1.703E+07	1.723E+07	8.415E+06	8.529E+06
6	4.359E+07	4.397E+07	2.299E+07	2.324E+07	1.180E+07	1.195E+07	5.626E+06	5.715E+06	3.368E+06	3.427E+06	1.664E+06	1.697E+06
8	1.381E+07	1.398E+07	7.284E+06	7.391E+06	3.739E+06	3.805E+06	1.783E+06	1.820E+06	1.067E+06	1.092E+06	5.272E+05	5.410E+05
10	5.668E+06	5.753E+06	2.989E+06	3.044E+06	1.534E+06	1.569E+06	7.314E+05	7.504E+05	4.379E+05	4.504E+05	2.164E+05	2.232E+05
15	1.127E+06	1.153E+06	5.942E+05	6.107E+05	3.050E+05	3.149E+05	1.454E+05	1.508E+05	8.705E+04	9.056E+04	4.301E+04	4.491E+04
20	3.597E+05	3.709E+05	1.897E+05	1.966E+05	9.737E+04	1.014E+05	4.642E+04	4.851E+04	2.779E+04	2.917E+04	1.373E+04	1.447E+04
30	7.288E+04	7.610E+04	3.844E+04	4.033E+04	1.973E+04	2.079E+04	9.406E+03	9.951E+03	5.631E+03	5.969E+03	2.782E+03	2.954E+03
45	1.525E+04	1.607E+04	8.042E+03	8.493E+03	4.128E+03	4.362E+03	1.968E+03	2.076E+03	1.178E+03	1.240E+03	5.821E+02	6.092E+02
60	5.233E+03	5.498E+03	2.760E+03	2.890E+03	1.417E+03	1.474E+03	6.753E+02	6.946E+02	4.043E+02	4.114E+02	1.997E+02	1.998E+02
75	2.381E+03	2.468E+03	1.256E+03	1.287E+03	6.446E+02	6.499E+02	3.073E+02	3.020E+02	1.840E+02	1.768E+02	9.090E+01	8.433E+01
90	1.308E+03	1.326E+03	6.899E+02	6.852E+02	3.541E+02	3.415E+02	1.688E+02	1.558E+02	1.011E+02	9.861E+01	4.993E+01	4.182E+01
120	5.814E+02	5.575E+02	3.066E+02	2.815E+02	1.574E+02	1.360E+02	7.503E+01	5.920E+01	4.492E+01	3.275E+01	2.219E+01	1.421E+01
150	3.757E+02	3.430E+02	1.981E+02	1.697E+02	1.017E+02	7.959E+01	4.848E+01	3.304E+01	2.902E+01	1.745E+01	1.434E+01	6.936E+00
179	3.271E+02	2.930E+02	1.725E+02	1.437E+02	8.855E+01	6.654E+01	4.221E+01	2.704E+01	2.527E+01	1.397E+01	1.249E+01	5.299E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.321E+09	1.326E+09	9.086E+08	9.124E+08	5.195E+08	5.219E+08	2.875E+08	2.888E+08	1.455E+08	1.462E+08	8.886E+07	8.929E+07
2	8.255E+07	8.317E+07	5.680E+07	5.724E+07	3.248E+07	3.275E+07	1.797E+07	1.813E+07	9.094E+06	9.174E+06	5.554E+06	5.604E+06
3	1.631E+07	1.649E+07	1.122E+07	1.135E+07	6.417E+06	6.498E+06	3.551E+06	3.596E+06	1.797E+06	1.820E+06	1.097E+06	1.112E+06
4	5.162E+06	5.237E+06	3.552E+06	3.606E+06	2.031E+06	2.044E+06	1.124E+06	1.143E+06	5.687E+05	5.784E+05	3.474E+05	3.534E+05
6	1.021E+06	1.043E+06	7.023E+05	7.179E+05	4.016E+05	4.110E+05	2.222E+05	2.276E+05	1.124E+05	1.152E+05	6.868E+04	7.041E+04
8	3.234E+05	3.264E+05	2.225E+05	2.290E+05	1.273E+05	1.311E+05	7.041E+04	7.262E+04	3.563E+04	3.677E+04	2.176E+04	2.247E+04
10	1.327E+05	1.372E+05	9.132E+04	9.451E+04	5.222E+04	5.413E+04	2.889E+04	2.998E+04	1.462E+04	1.519E+04	8.930E+03	9.279E+03
15	2.638E+04	2.761E+04	1.815E+04	1.902E+04	1.038E+04	1.090E+04	5.744E+03	6.037E+03	2.906E+03	3.058E+03	1.775E+03	1.868E+03
20	8.423E+03	8.893E+03	5.795E+03	6.126E+03	3.314E+03	3.509E+03	1.834E+03	1.943E+03	9.278E+02	9.81E+02	5.667E+02	6.013E+02
30	1.707E+03	1.813E+03	1.174E+03	1.248E+03	6.715E+02	7.137E+02	3.715E+02	3.948E+02	1.880E+02	1.997E+02	1.146E+02	1.220E+02
45	3.571E+02	3.721E+02	2.457E+02	2.572E+02	1.409E+02	1.452E+02	7.773E+01	8.011E+01	3.934E+01	4.035E+01	2.403E+01	2.461E+01
60	1.225E+02	1.210E+02	8.431E+01	8.244E+01	4.821E+01	4.663E+01	2.667E+01	2.546E+01	1.350E+01	1.277E+01	8.245E+00	7.765E+00
75	5.576E+01	5.042E+01	3.837E+01	3.403E+01	2.194E+01	1.896E+01	1.214E+01	1.026E+01	6.143E+00	5.101E+00	3.752E+00	3.089E+00
90	3.063E+01	2.455E+01	2.108E+01	1.635E+01	1.205E+01	8.935E+00	6.669E+00	4.754E+00	3.375E+00	2.331E+00	2.061E+00	1.402E+00
120	1.361E+01	7.883E+00	9.367E+00	5.010E+00	5.357E+00	2.545E+00	2.964E+00	1.273E+00	1.500E+00	5.881E+00	9.161E+01	3.433E-01
150	8.797E+00	3.542E+00	6.053E+00	2.086E+00	3.461E+00	2.988E+01	1.915E+00	3.949E+01	9.691E+01	1.525E+01	5.919E+01	7.971E-02
179	7.659E+00	2.574E+00	5.270E+00	1.438E+00	3.014E+00	5.757E+01	1.667E+00	2.035E+01	8.438E+01	5.816E+02	5.154E+01	2.280E-02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	4.359E+07	4.380E+07	2.596E+07	2.609E+07	1.725E+07	1.733E+07	9.210E+06	9.256E+06	4.682E+06	4.705E+06	2.144E+06	2.155E+06
2	2.725E+06	2.750E+06	1.623E+06	1.638E+06	1.078E+06	1.088E+06	5.757E+05	5.810E+05	2.926E+05	2.953E+05	1.340E+05	1.353E+05
3	5.383E+05	5.456E+05	3.206E+05	3.249E+05	2.130E+05	2.159E+05	1.138E+05	1.153E+05	5.782E+04	5.860E+04	2.648E+04	2.684E+04
4	1.704E+05	1.734E+05	1.015E+05	1.033E+05	6.742E+04	6.861E+04	3.600E+04	3.664E+04	1.830E+04	1.863E+04	8.383E+03	8.531E+03
6	3.369E+04	3.455E+04	2.007E+04	2.058E+04	1.333E+04	1.367E+04	7.119E+03	7.302E+03	3.619E+03	3.712E+03	1.658E+03	1.700E+03
8	1.068E+04	1.103E+04	6.358E+03	6.567E+03	4.224E+03	4.363E+03	2.256E+03	2.330E+03	1.147E+03	1.185E+03	5.252E+02	5.426E+02
10	4.381E+03	4.554E+03	2.609E+03	2.712E+03	1.733E+03	1.892E+03	9.257E+02	9.624E+02	4.705E+02	4.892E+02	2.155E+02	2.241E+02
15	8.709E+02	9.169E+02	5.187E+02	5.462E+02	3.445E+02	3.698E+02	1.840E+02	1.938E+02	9.354E+01	9.851E+01	4.284E+01	4.512E+01
20	2.788E+02	2.950E+02	1.656E+02	1.757E+02	1.100E+02	1.148E+02	5.874E+01	6.236E+01	2.986E+01	3.170E+01	1.368E+01	1.452E+01
30	5.633E+01	5.983E+01	3.355E+01	3.563E+01	2.229E+01	2.367E+01	1.190E+01	1.264E+01	6.050E+00	6.425E+00	2.771E+00	2.943E+00
45	1.179E+01	1.205E+01	7.020E+00	7.175E+00	4.663E+00	4.745E+00	2.490E+00	2.544E+00	1.266E+00	1.293E+00	5.798E+00	5.921E+00
60	4.044E+00	3.795E+00	2.409E+00	2.257E+00	1.600E+00	1.498E+00	8.545E+01	7.994E+01	4.344E+01	4.062E+01	1.990E+01	1.860E+01
75	1.841E+00	1.504E+00	1.096E+00	8.931E-01	7.282E-01	5.953E-01	3.889E+01	3.159E+01	1.977E+01	1.604E+01	9.055E+02	7.345E+02
90	1.011E+00	6.786E-01	6.022E-01	4.019E-01	4.000E-01	2.642E-01	2.136E+01	1.418E+01	1.086E+01	7.197E+02	4.974E+02	3.294E+02
120	4.494E-01	1.616E-01	2.676E-01	9.457E-02	1.779E-01	6.226E-02	9.495E+02	3.297E+02	4.827E+02	1.668E+02	2.211E+02	7.617E+03
150	2.904E-01	3.335E-02	1.729E-01	1.845E-02	1.149E-01	1.178E-02	6.136E+02	6.051E+03	3.119E+02	3.007E+03	1.429E+02	1.359E+03
179	2.528E-01	5.734E-03	1.506E-01	2.075E-03	1.000E-01	9.275E-04	5.342E+02	2.692E+04	2.715E+02	7.131E+05	1.244E+02	1.572E+05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.225E+06	1.231E+06	5.533E+05	5.560E+05	3.138E+05	3.153E+05	2.018E+05	2.028E+05	1.036E+05	1.041E+05	5.096E+04	5.121E+04
2	7.659E+04	7.729E+04	3.459E+04	3.491E+04	1.961E+04	1.979E+04	1.262E+04	1.273E+04	6.473E+03	6.533E+03	3.185E+03	3.215E+03
3	1.513E+04	1.534E+04	6.834E+03	6.926E+03	3.875E+03	3.998E+03	2.493E+03	2.526E+03	1.279E+03	1.296E+03	6.294E+02	6.379E+02
4	4.789E+03	4.874E+03	2.163E+03	2.201E+03	1.227E+03	1.248E+03	7.889E+02	8.029E+02	4.048E+02	4.120E+02	1.992E+02	2.027E+02
6	9.470E+02	9.714E+02	4.277E+02	4.387E+02	2.425E+02	2.488E+02	1.560E+02	1.600E+02	8.004E+01	8.210E+01	3.939E+01	4.004E+01
8	3.001E+02	3.100E+02	1.355E+02	1.400E+02	7.685E+01	7.940E+01	4.943E+01	5.106E+01	2.536E+01	2.620E+01	1.248E+01	1.289E+01
10	1.231E+02	1.280E+02	5.561E+01	5.782E+01	3.154E+01	3.279E+01	2.028E+01	2.109E+01	1.041E+01	1.082E+01	5.122E+00	5.325E+00
15	2.448E+01	2.578E+01	1.105E+01	1.164E+01	6.269E+00	6.603E+00	4.032E+00	4.247E+00	2.069E+00	2.179E+00	1.018E+00	1.072E+00
20	7.814E+00	8.295E+00	3.529E+00	3.746E+00	2.001E+00	2.125E+00	1.287E+00	1.366E+00	6.605E+01	7.011E+01	3.250E+01	3.450E+01
30	1.583E+00	1.681E+00	7.151E+01	7.593E+01	4.055E+01	4.306E+01	2.608E+01	2.770E+01	1.338E+01	1.421E+01	6.586E+02	6.994E+02
45	3.313E+01	3.383E+01	1.496E+01	1.528E+01	8.485E+02	8.664E+02	5.457E+02	5.572E+02	2.800E+02	2.859E+02	1.378E+02	1.407E+02
60	1.137E-01	1.063E-01	5.134E-02	4.798E-02	2.911E-02	2.721E-02	1.873E-02	1.750E-02	9.608E+03	9.989E+03	4.728E+03	4.419E+03
75	5.173E-02	4.196E-02	2.336E-02	1.895E-02	1.325E-02	1.074E-02	8.522E-03	6.910E-03	4.373E-03	3.546E-03	2.152E-03	1.745E-03
90	2.842E-02	1.881E-02	1.283E-02	8.494E-03	7.279E-03	4.817E-03	4.681E-03	3.098E-03	2.402E-03	1.589E-03	1.182E-03	7.822E-04
120	1.263E-02	4.348E-03	5.704E-03	1.962E-03	3.235E-03	1.112E-03	2.081E-03	7.153E-04	1.068E-03	3.670E-04	5.254E-04	1.806E-04
150	8.162E-03	7.729E-04	3.686E-03	3.479E-04	2.090E-03	1.970E-04	1.344E-03	1.266E-04	6.899E-04	6.494E-05	3.395E-04	3.195E-05
179	7.106E-03	5.465E-06	3.209E-03	1.305E-06	1.820E-03	5.046E-07	1.171E-03	2.537E-07	6.006E-04	9.830E-08	2.956E-04	3.997E-08

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.399E+14	1.400E+14	6.225E+13	6.228E+13	3.505E+13	3.507E+13	1.561E+13	1.562E+13	8.796E+12	8.802E+12	5.640E+12	5.644E+12
2	8.746E+12	8.752E+12	3.891E+12	3.893E+12	2.191E+12	2.192E+12	9.756E+11	9.763E+11	5.498E+11	5.503E+11	3.526E+11	3.529E+11
3	1.720E+12	1.729E+12	7.688E+11	7.693E+11	4.329E+11	4.332E+11	1.928E+11	1.929E+11	1.086E+11	1.087E+11	6.966E+10	6.973E+10
4	5.479E+11	5.473E+11	2.433E+11	2.435E+11	1.370E+11	1.371E+11	6.101E+10	6.106E+10	3.439E+10	3.442E+10	2.205E+10	2.207E+10
6	1.082E+11	1.082E+11	4.812E+10	4.816E+10	2.709E+10	2.711E+10	1.206E+10	1.208E+10	6.799E+09	6.808E+09	4.360E+09	4.366E+09
8	3.427E+10	3.430E+10	1.525E+10	1.526E+10	8.584E+09	8.591E+09	3.823E+09	3.827E+09	2.154E+09	2.158E+09	1.381E+09	1.384E+09
10	1.406E+10	1.408E+10	6.256E+09	6.261E+09	3.522E+09	3.526E+09	1.569E+09	1.571E+09	8.840E+08	8.857E+08	5.669E+08	5.679E+08
15	2.795E+09	2.798E+09	1.244E+09	1.245E+09	7.002E+08	7.014E+08	3.118E+08	3.124E+08	1.757E+08	1.760E+08	1.127E+08	1.129E+08
20	8.924E+08	8.931E+08	3.970E+08	3.977E+08	2.235E+08	2.240E+08	9.954E+07	9.970E+07	5.610E+07	5.612E+07	3.597E+07	3.603E+07
30	1.808E+08	1.812E+08	8.045E+07	8.060E+07	4.529E+07	4.534E+07	2.017E+07	2.018E+07	1.137E+07	1.139E+07	7.289E+06	7.316E+06
45	3.783E+07	3.787E+07	1.683E+07	1.682E+07	9.477E+06	9.473E+06	4.220E+06	4.233E+06	2.378E+06	2.396E+06	1.525E+06	1.543E+06
60	1.298E+07	1.295E+07	5.776E+06	5.771E+06	3.252E+06	3.261E+06	1.448E+06	1.463E+06	8.162E+05	8.298E+05	5.234E+05	5.345E+05
75	5.908E+06	5.893E+06	2.628E+06	2.638E+06	1.480E+06	1.495E+06	6.590E+05	6.719E+05	3.714E+05	3.812E+05	2.382E+05	2.457E+05
90	3.246E+06	3.258E+06	1.444E+06	1.463E+06	8.130E+05	8.297E+05	3.620E+05	3.730E+05	2.040E+05	2.115E+05	1.308E+05	1.362E+05
120	1.443E+06	1.495E+06	6.417E+05	6.705E+05	3.613E+05	3.793E+05	1.609E+05	1.698E+05	9.068E+04	9.593E+04	5.815E+04	6.156E+04
150	9.321E+05	1.001E+06	4.147E+05	4.467E+05	2.335E+05	2.518E+05	1.040E+05	1.122E+05	5.860E+04	6.311E+04	3.758E+04	4.037E+04
179	8.115E+05	8.839E+05	3.610E+05	3.937E+05	2.033E+05	2.217E+05	9.052E+04	9.852E+04	5.102E+04	5.535E+04	3.271E+04	3.537E+04
DEG	7.0E-02MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.889E+12	2.891E+12	1.424E+12	1.425E+12	6.387E+11	6.393E+11	3.626E+11	3.630E+11	1.641E+11	1.644E+11	9.398E+10	9.412E+10
2	1.806E+11	1.808E+11	8.899E+10	8.909E+10	3.993E+10	3.998E+10	2.267E+10	2.270E+10	1.028E+10	1.028E+10	5.875E+09	5.889E+09
3	3.568E+10	3.572E+10	1.758E+10	1.761E+10	7.869E+09	7.902E+09	4.479E+09	4.488E+09	2.027E+09	2.033E+09	1.161E+09	1.165E+09
4	1.129E+10	1.131E+10	5.565E+09	5.574E+09	2.497E+09	2.502E+09	1.418E+09	1.421E+09	6.417E+08	6.441E+08	3.674E+08	3.691E+08
6	2.233E+09	2.237E+09	1.100E+09	1.103E+09	4.937E+08	4.951E+08	2.803E+08	2.813E+08	1.269E+08	1.276E+08	7.264E+07	7.317E+07
8	7.075E+08	7.088E+08	3.487E+08	3.495E+08	1.564E+08	1.570E+08	8.882E+07	8.927E+07	4.020E+07	4.051E+07	2.302E+07	2.325E+07
10	2.903E+08	2.909E+08	1.431E+08	1.435E+08	6.420E+07	6.449E+07	3.645E+07	3.669E+07	1.650E+07	1.666E+07	9.445E+06	9.568E+06
15	5.772E+07	5.785E+07	2.844E+07	2.856E+07	1.276E+07	1.286E+07	7.245E+06	7.327E+06	3.279E+06	3.334E+06	1.878E+06	1.916E+06
20	1.843E+07	1.849E+07	9.080E+06	9.141E+06	4.074E+06	4.124E+06	2.313E+06	2.352E+06	1.047E+06	1.072E+06	5.994E+05	6.164E+05
30	3.733E+06	3.764E+06	1.840E+06	1.866E+06	8.255E+05	8.440E+05	4.687E+05	4.820E+05	2.121E+05	2.199E+05	1.215F+05	1.266E+05
45	7.811E+05	7.961E+05	3.850E+05	3.955E+05	1.727E+05	1.791E+05	9.806E+04	1.023E+05	4.438E+04	4.662E+04	2.541E+04	2.681E+04
60	2.680E+05	2.761E+05	1.321E+05	1.371E+05	5.927E+04	6.200E+04	3.365E+04	3.535E+04	1.523E+04	1.607E+04	8.720E+03	9.209E+03
75	1.220E+05	1.267E+05	6.012E+04	6.283E+04	2.697E+04	2.832E+04	1.531E+04	1.611E+04	6.931E+03	7.282F+03	3.968F+03	4.155E+03
90	6.701E+04	7.009E+04	3.302E+04	3.466E+04	1.482E+04	1.556E+04	8.412E+03	8.814E+03	3.807E+03	3.960F+03	2.180E+03	2.266E+03
120	2.978E+04	3.151E+04	1.468E+04	1.547E+04	6.585E+03	6.876E+03	3.739E+03	3.862E+03	1.692E+03	1.709F+03	9.689E+02	9.567E+02
150	1.924E+04	2.056E+04	9.484E+03	1.003E+04	4.255E+03	4.419E+03	2.416E+03	2.464E+03	1.093E+03	1.076E+03	6.261E+02	5.954E+02
179	1.676E+04	1.797E+04	8.257E+03	8.743E+03	3.705E+03	3.840E+03	2.103E+03	2.135E+03	9.520E+02	9.277F+02	5.451F+02	5.108E+02
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	6.119E+10	6.130E+10	3.227E+10	3.234E+10	1.656E+10	1.661E+10	7.897E+09	7.921E+09	4.727E+09	4.743E+09	2.336E+09	2.345E+09
2	3.825E+09	3.836E+09	2.017E+09	2.025E+09	1.035E+09	1.040E+09	4.936E+08	4.964E+08	2.955E+08	2.974F+08	1.466F+08	1.471E+08
3	7.558E+08	7.590E+08	3.986E+08	4.007E+08	2.046E+08	2.060E+08	9.753E+07	9.834E+07	5.839E+07	5.893F+07	2.885F+07	2.915E+07
4	4.392E+08	4.406E+08	1.262E+08	1.271E+08	6.476E+07	6.534E+07	3.037E+07	3.121E+07	1.848E+07	1.871F+07	9.131E+06	9.259E+06
6	2.730E+07	2.771E+07	2.494E+07	2.522E+07	1.280E+07	1.298E+07	6.104E+06	6.204F+06	3.654E+06	3.721F+06	1.806E+06	1.843E+06
8	1.499E+07	1.517E+07	7.904E+06	8.022E+06	4.057E+06	4.131E+06	1.934E+06	1.976E+06	1.158E+06	1.186E+06	5.721E+05	5.876E+05
10	6.150E+06	6.244E+06	3.243E+06	3.305E+06	1.665E+06	1.703E+06	7.937E+05	8.150E+05	4.751E+05	4.892F+05	2.348E+05	2.425E+05
15	1.223E+06	1.252E+06	6.447E+05	6.632E+05	3.310E+05	3.421E+05	1.557E+05	1.639E+05	9.445E+04	9.845F+04	4.667E+04	4.884E+04
20	3.903E+05	4.029E+05	2.058E+05	2.136E+05	1.057E+05	1.102E+05	5.037E+04	5.284E+04	3.015E+04	3.174F+04	1.499E+04	1.574E+04
30	7.908E+04	8.274E+04	4.170E+04	4.387E+04	2.141E+04	2.263E+04	1.021E+04	1.084E+04	6.110E+03	6.503F+03	3.019F+03	3.220E+03
45	1.655E+04	1.750E+04	8.726E+03	9.254E+03	4.479E+03	4.746E+03	2.135E+03	2.265E+03	1.278E+03	1.353F+03	3.166E+02	3.655E+02
60	5.878E+03	5.995E+03	2.994E+03	3.153E+03	1.537E+03	1.669E+03	7.327E+02	7.589E+02	4.387E+02	4.498F+02	2.167E+02	2.186E+02
75	2.584E+03	2.693E+03	1.363E+03	1.406E+03	6.995E+02	7.102E+02	3.335E+02	3.302E+02	1.996E+02	1.935F+02	9.863E+01	9.337E+01
90	1.419E+03	1.448E+03	7.486E+02	7.487E+02	3.843E+02	3.744E+02	1.832E+02	1.705E+02	1.097E+02	9.834F+01	5.418F+01	5.833E+01
120	6.309E+02	6.092E+02	3.327E+02	3.077E+02	1.708E+02	1.447E+02	8.141E+01	6.477E+01	4.874E+01	3.544F+01	2.408F+01	1.557E+01
150	4.076E+02	3.749E+02	2.150E+02	1.855E+02	1.104E+02	8.697E+01	5.261E+01	3.611E+01	3.149E+01	1.908F+01	1.556F+01	7.584E+00
179	3.549E+02	3.202E+02	1.872E+02	1.570E+02	9.608E+01	7.270E+01	4.580E+01	2.954E+01	2.742E+01	1.526F+01	1.355F+01	5.786E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.433E+09	1.439E+09	9.859E+08	9.902E+08	5.638E+08	5.664E+08	3.119E+08	3.134E+08	1.579E+08	1.586E+08	9.641E+07	9.689E+07
2	8.957E+07	9.026E+07	6.163E+07	6.213E+07	3.524E+07	3.554E+07	1.950E+07	1.967E+07	9.867E+06	9.958E+06	6.027E+06	6.083E+06
3	1.770E+07	1.790E+07	1.218E+07	1.232E+07	6.963E+06	7.051E+06	3.853E+06	3.903E+06	1.950E+06	1.976E+06	1.191E+06	1.207E+06
4	5.601E+06	5.686E+06	3.854E+06	3.915E+06	2.204E+06	2.241E+06	1.219E+06	1.240E+06	6.171E+05	6.280E+05	3.769E+05	3.837E+05
6	1.108E+06	1.132E+06	7.621E+05	7.797E+05	4.358E+05	4.464E+05	2.411E+05	2.472E+05	1.220E+05	1.252E+05	7.453E+04	7.648E+04
8	3.509E+05	3.611E+05	2.415E+05	2.487E+05	1.381E+05	1.424E+05	7.640E+04	7.890E+04	3.866E+04	3.996E+04	2.361E+04	2.442E+04
10	1.440E+05	1.491E+05	9.909E+04	1.027E+05	5.666E+04	5.843E+04	3.135E+04	3.259E+04	1.586E+04	1.651E+04	9.690E+03	1.009E+04
15	2.863E+04	3.003E+04	1.970E+04	2.069E+04	1.129E+04	1.186E+04	6.232E+03	6.568E+03	3.154E+03	3.327E+03	1.926E+03	2.033E+03
20	9.139E+03	9.680E+03	6.288E+03	6.670E+03	3.596E+03	3.821E+03	1.990E+03	2.116E+03	1.007E+03	1.072E+03	6.149E+02	6.549E+02
30	1.852E+03	1.977E+03	1.274E+03	1.361E+03	7.286E+02	7.745E+02	4.031E+02	4.307E+02	2.040E+02	2.180E+02	1.246E+02	1.331E+02
45	3.875E+02	4.067E+02	2.666E+02	2.789E+02	1.525E+02	1.588E+02	8.435E+01	8.752E+01	4.288E+01	4.415E+01	2.607E+01	2.692E+01
60	1.330E+02	1.324E+02	9.148E+01	9.027E+01	5.231E+01	5.097E+01	2.894E+01	2.790E+01	1.465E+01	1.400E+01	8.946E+00	8.514E+00
75	6.051E+01	5.526E+01	4.163E+01	3.732E+01	2.381E+01	2.080E+01	1.317E+01	1.126E+01	6.665E+00	5.601E+00	4.071E+00	3.393E+00
90	3.324E+01	2.693E+01	2.287E+01	1.794E+01	1.308E+01	9.812E+00	7.236E+00	5.224E+00	3.662E+00	2.563F+00	2.236E+00	1.542E+00
120	1.477E+01	8.643E+00	1.016E+01	5.497E+00	5.813E+00	2.807E+00	3.218E+00	1.400E+00	1.627E+00	6.474E+01	9.940E+01	3.782E+01
150	9.546E+00	3.875E+00	6.568E+00	2.283E+00	3.756E+00	1.019E+00	2.078E+00	4.331E+01	1.052E+00	1.675E+01	6.423E+01	8.769E+02
179	8.311E+00	2.811E+00	5.718E+00	1.570E+00	3.270E+00	6.253E+01	1.809E+00	2.222E+01	9.155E+01	6.350E+02	5.592E+01	2.489E+02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	4.730E+07	4.754E+07	2.817E+07	2.831E+07	1.871E+07	1.881E+07	9.994E+06	1.004E+07	5.080E+06	5.106E+06	2.327E+06	2.339E+06
2	2.956E+06	2.984E+06	1.761E+06	1.777E+06	1.170E+06	1.181E+06	6.247E+05	6.306E+05	3.175E+05	3.206E+05	1.454E+05	1.468E+05
3	5.841E+05	5.922E+05	3.479E+05	3.527E+05	2.311E+05	2.343E+05	1.234E+05	1.252E+05	6.274E+04	6.362E+04	2.874E+04	2.914E+04
4	1.849E+05	1.883E+05	1.101E+05	1.121E+05	7.315E+04	7.449E+04	3.907E+04	3.978E+04	1.986E+04	2.022F+04	9.096E+03	9.263E+03
6	3.656E+04	3.753E+04	2.177E+04	2.235E+04	1.446E+04	1.485E+04	7.725E+03	7.931E+03	3.927E+03	4.032E+03	1.799E+03	1.847E+03
8	1.158E+04	1.198E+04	6.899E+03	7.136E+03	4.583E+03	4.741E+03	2.448E+03	2.532E+03	1.244E+03	1.287E+03	5.699E+02	5.896E+02
10	4.753E+03	4.950E+03	2.831E+03	2.948E+03	1.881E+03	1.959E+03	1.004E+03	1.046E+03	5.106E+02	5.318E+02	2.339E+02	2.436E+02
15	9.449E+02	9.777E+02	5.628E+02	5.943E+02	3.739E+02	3.948E+02	1.997E+02	2.109E+02	1.015E+02	1.072E+02	4.649E+01	4.910E+01
20	3.017E+02	3.214E+02	1.797E+02	1.914E+02	1.193E+02	1.272E+02	6.374E+01	6.793E+01	3.240E+01	3.453E+01	1.484E+01	1.582E+01
30	6.112E+01	6.530E+01	3.640E+01	3.889E+01	2.418E+01	2.543E+01	1.292E+01	1.380E+01	6.565E+00	7.013F+00	3.007E+00	3.212E+00
45	1.279E+01	1.319E+01	7.617E+00	7.851E+00	5.060E+00	5.214E+00	2.720E+00	2.784E+00	1.374E+00	1.415E+00	6.929E+00	6.480E+00
60	4.389E+00	4.161E+00	2.614E+00	2.475E+00	1.736E+00	1.643E+00	9.273E+01	8.767E+01	4.714E+01	4.454E+01	2.159E+01	2.040E+01
75	1.997E+00	1.652E+00	1.189E+00	9.811E+01	7.902E+01	6.508E+01	4.220E+01	3.471E+01	2.145E+01	1.763E+01	9.825E+02	8.070E+02
90	1.097E+00	7.466E+01	6.534E+01	4.422E+01	4.341E+01	2.929E+01	2.318E+01	1.560E+01	1.178E+01	7.919E+02	5.397E+02	3.624E+02
120	4.876E+01	1.781E+01	2.904E+01	1.042E+01	1.929E+01	6.84E+02	1.030E+01	3.635E+02	5.237E+02	1.839E+02	2.399F+02	8.399E+03
150	3.151E+01	3.674E+02	1.877E+01	2.034E+02	1.247E+01	1.269E+02	6.658E+02	6.677E+03	3.394E+02	3.319E+03	1.550E+02	1.501E+03
179	2.743E+01	6.260E+03	1.634E+01	2.265E+03	1.085E+01	1.012E+03	5.796E+02	2.940E+04	2.946E+02	7.788E+05	1.350E+02	1.718E+05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.329E+06	1.336E+06	6.004E+05	6.034E+05	3.405E+05	3.452E+05	2.190E+05	2.201E+05	1.124E+05	1.129E+05	5.529E+04	5.558E+04
2	3.310E+04	8.389E+04	3.753E+04	3.789E+04	2.128E+04	2.149E+04	1.369E+04	1.382E+04	7.024E+03	7.091E+03	3.456E+03	3.489E+03
3	1.642E+04	1.655E+04	7.415E+03	7.519E+03	4.205E+03	4.264E+03	2.705E+03	2.743E+03	1.388E+03	1.407E+03	6.829E+02	6.925E+02
4	5.197E+03	5.293E+03	2.347E+03	2.390E+03	1.331E+03	1.355E+03	8.560E+02	8.718E+02	4.393E+02	4.473E+02	2.162E+02	2.201E+02
6	1.028E+03	1.055E+03	4.641E+02	4.765E+02	2.632E+02	2.702E+02	1.630E+02	1.738E+02	8.685E+01	8.918E+01	4.274E+01	4.389E+01
8	3.256E+02	3.369E+02	1.470E+02	1.521E+02	8.339E+01	8.657E+01	5.363E+01	5.549E+01	2.752E+01	2.847E+01	1.354E+01	1.401E+01
10	1.336E+02	1.392E+02	6.034E+01	6.286E+01	3.422E+01	3.565E+01	2.201E+01	2.293E+01	1.124E+01	1.176E+01	5.557E+00	5.789E+00
15	2.656E+01	2.805E+01	1.199E+01	1.267E+01	6.802E+00	7.185E+00	4.375E+00	4.621E+00	2.245E+00	2.371E+00	1.105E+00	1.167E+00
20	8.479E+00	9.366E+00	3.829E+00	4.081E+00	2.172E+00	2.314E+00	1.397E+00	1.488E+00	7.167E+01	7.638E+01	3.527E+01	3.759E+01
30	1.718E+00	1.835E+00	7.759E+01	8.288E+01	4.400E+01	4.700E+01	2.830E+01	3.023E+01	1.452E+01	1.551E+01	7.146E+02	7.633E+02
45	3.595E+01	3.702E+01	1.623E+01	1.672E+01	9.206E+02	9.481E+02	5.921E+02	6.098E+02	3.038E+02	3.129E+02	1.495E+02	1.540E+02
60	1.234E+01	1.165E+01	5.571E+02	5.263E+02	3.159E+02	2.984E+02	2.032E+02	1.919E+02	1.043E+02	9.849E+03	5.131F+03	4.847E+03
75	5.614E+02	4.610E+02	2.353E+02	2.082E+02	1.438E+02	1.180E+02	9.247E+03	7.592E+03	4.745E+03	3.896E+03	2.335E+03	1.917E+03
90	3.084E+02	2.070E+02	1.393E+02	9.346E+03	7.898E+03	5.300E+03	5.080E+03	3.409E+03	2.606E+03	1.749E+03	1.283E+03	8.607E+04
120	1.371E+02	4.794E+03	6.190E+03	2.164E+03	3.510E+03	1.257E+03	2.258E+03	7.888E+04	1.158E+03	4.047E+04	5.701E+04	1.992E+04
150	8.856E+03	8.533E+04	4.000E+03	3.840E+04	2.268E+03	2.175E+04	1.459E+03	1.398E+04	7.485E+04	7.170E+05	3.684E+04	3.528E+05
179	7.711E+03	5.755E+06	3.482E+03	1.429E+06	1.975E+03	5.543E+07	1.270E+03	2.786E+07	6.517E+04	1.081E+07	3.207E+04	4.405E+08

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.513E+14	1.514E+14	6.733E+13	6.737E+13	3.791E+13	3.793E+13	1.688E+13	1.689E+13	9.514E+12	9.520E+12	6.101E+12	6.105E+12
2	9.460E+12	9.466E+12	4.209E+12	4.211E+12	2.370E+12	2.371E+12	1.055E+12	1.056E+12	5.947E+11	5.952E+11	3.813E+11	3.817E+11
3	1.869E+12	1.870E+12	8.315E+11	8.321E+11	4.682E+11	4.685E+11	2.085E+11	2.087E+11	1.175E+11	1.176E+11	7.535E+10	7.542E+10
4	5.916E+11	5.920E+11	2.632E+11	2.634E+11	1.482E+11	1.483E+11	6.599E+10	6.605E+10	3.719E+10	3.723E+10	2.385E+10	2.388E+10
6	1.170E+11	1.171E+11	5.204E+10	5.209E+10	2.930E+10	2.933E+10	1.305E+10	1.306E+10	7.354E+09	7.363E+09	4.716E+09	4.723E+09
8	3.707E+10	3.709E+10	1.649E+10	1.650E+10	9.285E+09	9.293E+09	4.134E+09	4.140E+09	2.330E+09	2.334E+09	1.494E+09	1.497E+09
10	1.521E+10	1.522E+10	6.767E+09	6.773E+09	3.810E+09	3.813E+09	1.697E+09	1.699E+09	9.562E+08	9.580E+08	6.131E+08	6.143E+08
15	3.024E+09	3.026E+09	1.345E+09	1.346E+09	7.574E+08	7.586E+08	3.373E+08	3.380E+08	1.901E+08	1.904E+08	1.219E+08	1.221E+08
20	9.652E+08	9.659E+08	4.294E+08	4.301E+08	2.418E+08	2.423E+08	1.077E+08	1.079E+08	6.068E+07	6.076E+07	3.891E+07	3.897E+07
30	1.956E+08	1.960E+08	8.701E+07	8.721E+07	4.899E+07	4.906E+07	2.182E+07	2.183E+07	1.230E+07	1.231E+07	7.884E+06	7.908E+06
45	4.092E+07	4.098E+07	1.821E+07	1.819E+07	1.025E+07	1.024E+07	4.565E+06	4.575E+06	2.573E+06	2.590E+06	1.650E+06	1.668E+06
60	1.404E+07	1.400E+07	6.247E+06	6.236E+06	3.517E+06	3.523E+06	1.566E+06	1.581E+06	8.828E+05	8.969E+05	5.661E+05	5.783E+05
75	6.390E+06	6.366E+06	2.843E+06	2.850E+06	1.601E+06	1.615E+06	7.128E+05	7.263E+05	4.017E+05	4.124E+05	2.576E+05	2.659E+05
90	3.511E+06	3.518E+06	1.562E+06	1.581E+06	8.793E+05	8.969E+05	3.916E+05	4.036E+05	2.207E+05	2.290E+05	1.415E+05	1.475E+05
120	1.560E+06	1.618E+06	6.941E+05	7.265E+05	3.908E+05	4.113E+05	1.740E+05	1.843E+05	9.808E+04	1.022E+05	6.290E+04	6.688E+04
150	1.008E+06	1.088E+06	4.485E+05	4.857E+05	2.525E+05	2.740E+05	1.125E+05	1.221E+05	6.386E+04	6.872E+04	4.064E+04	4.397E+04
179	8.778E+05	9.622E+05	3.905E+05	4.288E+05	2.199E+05	2.415E+05	9.791E+04	1.074E+05	5.518E+04	6.033E+04	3.538E+04	3.855E+04
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	3.125E+12	3.127E+12	1.540E+12	1.541E+12	6.909E+11	6.915E+11	3.922E+11	3.927E+11	1.775E+11	1.778E+11	1.018E+11	1.018E+11
2	1.953E+11	1.955E+11	9.625E+10	9.636E+10	4.319E+10	4.324E+10	2.452E+10	2.456E+10	1.110E+10	1.112E+10	6.354E+09	6.370E+09
3	3.859E+10	3.864E+10	1.902E+10	1.904E+10	8.533E+09	8.547E+09	4.844E+09	4.854E+09	2.193E+09	2.199E+09	1.255E+09	1.260E+09
4	1.221E+10	1.223E+10	6.020E+09	6.029E+09	2.701E+09	2.708E+09	1.533E+09	1.537E+09	6.940E+08	6.966E+08	3.974E+08	3.993E+08
6	2.415E+09	2.419E+09	1.190E+09	1.193E+09	5.340E+08	5.354E+08	3.032E+08	3.043E+08	1.372E+08	1.380F+08	7.857E+07	7.914E+07
8	7.653E+08	7.667E+08	3.771E+08	3.780E+08	1.692E+08	1.698E+08	9.607E+07	9.653E+07	4.348E+07	4.382E+07	2.490E+07	2.515E+07
10	3.140E+08	3.147E+08	1.548E+08	1.551E+08	6.943E+07	6.973E+07	3.942E+07	3.967E+07	1.784E+07	1.802E+07	1.022E+07	1.035E+07
15	6.243E+07	6.256E+07	3.075E+07	3.088E+07	1.380E+07	1.391E+07	7.373E+06	7.923E+06	3.547E+06	3.606E+06	2.031E+06	2.073E+06
20	1.993E+07	1.999E+07	9.821E+06	9.882E+06	4.406E+06	4.458E+06	2.502E+06	2.543E+06	1.132E+06	1.159E+06	6.483E+05	6.672E+05
30	4.038E+06	4.068E+06	1.990E+06	2.017E+06	8.928E+05	9.128E+05	5.069E+05	5.215E+05	2.294E+05	2.381E+05	1.314E+05	1.371E+05
45	8.449E+05	8.607E+05	4.164E+05	4.279E+05	1.868E+05	1.939E+05	1.061E+05	1.108E+05	4.801E+04	5.055E+04	2.749E+04	2.908E+04
60	2.899E+05	2.987E+05	1.429E+05	1.485E+05	6.410E+04	6.720E+04	3.639E+04	3.835E+04	1.647E+04	1.744E+04	9.431E+03	1.000E+04
75	1.319E+05	1.373E+05	6.592E+04	6.812E+04	2.917E+04	3.073E+04	1.656E+04	1.749E+04	7.496E+03	7.914E+03	4.292E+03	4.518E+03
90	7.248E+04	7.600E+04	3.572E+04	3.761E+04	1.603E+04	1.690E+04	9.099E+03	9.580E+03	4.118E+03	4.307E+03	2.358E+03	2.444E+03
120	3.221E+04	3.425E+04	1.588E+04	1.682E+04	7.123E+03	7.482E+03	4.044E+03	4.204E+03	1.830E+03	1.861E+03	1.048E+03	1.042E+03
150	2.082E+04	2.239E+04	1.025E+04	1.093E+04	4.602E+03	4.816E+03	2.613E+03	2.685E+03	1.183E+03	1.173E+03	6.771E+02	6.489E+02
179	1.812E+04	1.959E+04	8.931E+03	9.534E+03	4.007E+03	4.187E+03	2.275E+03	2.328E+03	1.030E+03	1.011E+03	5.896E+02	5.568E+02
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	6.618E+10	6.630E+10	3.490E+10	3.498E+10	1.792E+10	1.796E+10	8.541E+09	8.567E+09	5.113E+09	5.131E+09	2.526E+09	2.536E+09
2	4.137E+09	4.149E+09	2.182E+09	2.190E+09	1.120E+09	1.125E+09	5.339E+08	5.370E+08	3.196E+08	3.217E+08	1.579E+08	1.591E+08
3	8.174E+08	8.210E+08	4.311E+08	4.335E+08	2.213E+08	2.228E+08	1.055E+08	1.064E+08	6.315E+07	6.375E+07	3.120E+07	3.154E+07
4	2.587E+08	2.602E+08	1.364E+08	1.374E+08	7.004E+07	7.068E+07	3.339E+07	3.376E+07	1.999E+07	2.024E+07	9.876E+06	1.002E+07
6	5.116E+07	5.161E+07	2.698E+07	2.728E+07	1.385E+07	1.404E+07	6.602E+06	6.713E+06	3.952E+06	4.027E+06	1.953E+06	1.995E+06
8	1.623E+07	1.641E+07	8.549E+06	8.679E+06	4.388E+06	4.470E+06	2.092E+06	2.139E+06	1.252E+06	1.284E+06	6.188E+05	6.361E+05
10	6.652E+06	6.755E+06	3.508E+06	3.576E+06	1.801E+06	1.843E+06	8.584E+05	8.823E+05	5.139E+05	5.267E+05	2.539E+05	2.627E+05
15	1.322E+06	1.355E+06	6.973E+05	7.180E+05	3.580E+05	3.704E+05	1.766E+05	1.776E+05	1.022E+05	1.067E+05	5.047E+04	5.293E+04
20	4.221E+05	4.361E+05	2.226E+05	2.313E+05	1.143E+05	1.194E+05	5.448E+04	5.728E+04	3.261E+04	3.442E+04	1.611E+04	1.708E+04
30	8.553E+04	8.967E+04	4.511E+04	4.757E+04	2.315E+04	2.455E+04	1.104E+04	1.177E+04	6.608E+03	7.063E+03	3.265E+03	3.499E+03
45	1.790E+04	1.899E+04	9.438E+03	1.005E+04	4.845E+03	5.170E+03	2.310E+03	2.464E+03	1.383E+03	1.473E+03	6.831E+02	7.247E+02
60	6.141E+03	6.515E+03	3.239E+03	3.430E+03	1.662E+03	1.761E+03	7.925E+02	8.267E+02	4.744E+02	4.902E+02	2.344E+02	2.384E+02
75	2.795E+03	2.930E+03	1.474E+03	1.530E+03	7.565E+02	7.747E+02	3.607E+02	3.601E+02	2.159E+02	2.111E+02	1.067E+02	1.099E+02
90	1.535E+03	1.577E+03	8.096E+02	8.155E+02	4.156E+02	4.070E+02	1.981E+02	1.859E+02	1.186E+02	1.073E+02	5.860E+01	5.008E+01
120	6.823E+02	6.377E+02	3.598E+02	3.353E+02	1.847E+02	1.651E+02	8.806E+01	7.065E+01	5.272E+01	3.912E+01	2.605E+01	1.701E+01
150	4.409E+02	4.086E+02	2.325E+02	2.021E+02	1.194E+02	9.477E+01	5.690E+01	3.935E+01	3.406E+01	2.079E+01	1.683E+01	8.269E+00
179	3.839E+02	3.490E+02	2.024E+02	1.711E+02	1.039E+02	7.920E+01	4.954E+01	3.217E+01	2.966E+01	1.662E+01	1.465E+01	6.301E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.550E+09	1.556E+09	1.066E+09	1.071E+09	6.098E+08	6.127E+08	3.374E+08	3.390E+08	1.707E+08	1.716E+08	1.043E+08	1.048E+08
2	9.680E+07	9.765E+07	6.666E+07	6.721E+07	3.812E+07	3.845E+07	2.109E+07	2.128E+07	1.067E+07	1.077E+07	6.519E+06	6.581E+06
3	1.914E+07	1.937E+07	1.317E+07	1.333E+07	7.531E+06	7.640E+06	4.167E+06	4.224E+06	2.109E+06	2.138E+06	1.288E+06	1.306E+06
4	6.059E+06	6.153E+06	4.169E+06	4.236E+06	2.384E+06	2.455E+06	1.319E+06	1.343E+06	6.674E+05	6.797E+05	4.077E+05	4.153E+05
6	1.198E+06	1.225E+06	8.243E+05	8.440E+05	4.714E+05	4.832E+05	2.608E+05	2.676E+05	1.320E+05	1.355E+05	8.061E+04	8.280E+04
8	3.796E+05	3.910E+05	2.612E+05	2.693E+05	1.494E+05	1.543E+05	8.263E+04	8.545E+04	4.182E+04	4.328E+04	2.554E+04	2.644E+04
10	1.550E+05	1.615E+05	1.072E+05	1.113E+05	6.129E+04	6.374E+04	3.391E+04	3.531E+04	1.716E+04	1.789E+04	1.048E+04	1.093E+04
15	3.096E+04	3.256E+04	2.130E+04	2.244E+04	1.218E+04	1.286E+04	6.741E+03	7.123E+03	3.411E+03	3.609E+03	2.083E+03	2.205E+03
20	9.893E+03	1.050E+04	6.801E+03	7.238E+03	3.889E+03	4.147E+03	2.152E+03	2.297E+03	1.089E+03	1.164E+03	6.651E+02	7.111E+02
30	2.003E+03	2.149E+03	1.378E+03	1.480E+03	7.881E+02	8.466E+02	4.360E+02	4.685E+02	2.206E+02	2.371E+02	1.348E+02	1.448E+02
45	4.191E+02	4.430E+02	2.883E+02	3.039E+02	1.649E+02	1.731E+02	9.123E+01	9.543E+01	4.617E+01	4.815E+01	2.820E+01	2.937E+01
60	1.438E+02	1.445E+02	9.894E+01	9.855E+01	5.658E+01	5.567E+01	3.131E+01	3.048E+01	1.584E+01	1.530E+01	9.676E+00	9.306E+00
75	6.544E+01	6.038E+01	4.503E+01	4.079E+01	2.575E+01	2.276E+01	1.425E+01	1.233E+01	7.209E+00	6.132E+00	4.403E+00	3.715E+00
90	3.595E+01	2.945E+01	2.474E+01	1.962E+01	1.415E+01	1.074E+01	7.826E+00	5.724E+00	3.960E+00	2.899E+00	2.419E+00	1.691E+00
120	1.598E+01	9.449E+00	1.099E+01	6.014E+00	6.287E+00	3.074E+00	3.478E+00	1.535E+00	1.760E+00	7.106E+01	1.075E+00	4.153E+01
150	1.032E+01	4.227E+00	7.104E+00	2.491E+00	4.062E+00	1.112E+00	2.248E+00	4.736E+01	1.137E+00	1.836E+01	6.947E+01	9.618E+02
179	8.929E+00	3.060E+00	6.185E+00	1.709E+00	3.537E+00	6.807E+01	1.957E+00	2.419E+01	9.903E+01	6.911E+02	6.948E+01	2.710E+02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	5.116E+07	5.142E+07	3.047E+07	3.063E+07	2.024E+07	2.035E+07	1.081E+07	1.087E+07	5.494E+06	5.523E+06	2.517E+06	2.530E+06
2	3.198E+06	3.229E+06	1.904E+06	1.923E+06	1.265E+06	1.278E+06	6.757E+05	6.823E+05	3.435E+05	3.468E+05	1.573E+05	1.589E+05
3	6.318E+05	6.479E+05	3.763E+05	3.817E+05	2.500E+05	2.536E+05	1.335E+05	1.354E+05	6.786E+04	6.884E+04	3.108E+04	3.153E+04
4	2.000E+05	2.038E+05	1.191E+05	1.214E+05	7.912E+04	8.062E+04	4.226E+04	4.306E+04	2.148E+04	2.189E+04	9.838E+03	1.003E+04
6	3.954E+04	4.061E+04	2.355E+04	2.420E+04	1.564E+04	1.608E+04	8.355E+03	8.587E+03	4.247E+03	4.365E+03	1.945E+03	1.999E+03
8	1.253E+04	1.298E+04	7.462E+03	7.730E+03	4.957E+03	5.135E+03	2.647E+03	2.743E+03	1.346E+03	1.394E+03	6.164E+02	6.386E+02
10	5.141E+03	5.364E+03	3.062E+03	3.195E+03	2.034E+03	2.123E+03	1.086E+03	1.134E+03	5.522E+02	5.763E+02	2.529E+02	2.640E+02
15	1.022E+03	1.082E+03	6.087E+02	6.447E+02	4.044E+02	4.283E+02	2.160E+02	2.297E+02	1.098E+02	1.163E+02	5.028E+01	5.326E+01
20	3.263E+02	3.490E+02	1.943E+02	2.079E+02	1.291E+02	1.381E+02	6.894E+01	7.376E+01	3.504E+01	3.749E+01	1.605E+01	1.717E+01
30	6.511E+01	7.104E+01	3.937E+01	4.231E+01	2.616E+01	2.811E+01	1.397E+01	1.501E+01	7.101E+00	7.630E+00	3.252E+00	3.495E+00
45	1.383E+01	1.439E+01	8.238E+00	8.564E+00	5.473E+00	5.688E+00	2.923E+00	3.037E+00	1.486E+00	1.543E+00	6.805E+00	7.069E+01
60	4.747E+00	4.549E+00	2.827E+00	2.705E+00	1.878E+00	1.706E+00	1.003E+00	9.585E+01	5.098E+01	4.870E+01	2.335E+01	2.230E+01
75	2.168E+00	1.813E+00	1.287E+00	1.075E+00	8.546E+01	7.128E+01	4.564E+01	3.801E+01	2.320E+01	1.931E+01	1.063E+01	8.839E+02
90	1.187E+00	8.188E+01	7.067E+01	4.850E+01	4.695E+01	3.213E+01	2.507E+01	1.712E+01	1.275E+01	8.688E+02	5.838E+02	3.976E+02
120	5.274E+01	1.957E+01	3.141E+01	1.146E+01	2.087E+01	7.545E+02	1.114E+01	3.996E+02	5.665E+02	2.022E+02	2.595E+02	9.235E+03
150	3.408E+01	4.036E+02	2.030E+01	2.236E+02	1.348E+01	1.459E+02	7.201E+02	7.347E+03	3.660E+02	3.652E+03	1.677E+02	1.652E+03
179	2.967E+01	6.814E+03	1.767E+01	2.466E+03	1.174E+01	1.102E+03	6.269E+02	3.200E+04	3.187E+02	8.481E+05	1.460E+02	1.872E+05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.438E+06	1.445E+06	6.494E+05	6.528E+05	3.683E+05	3.702E+05	2.369E+05	2.381E+05	1.215E+05	1.222E+05	5.981E+04	6.012E+04
2	8.988E+04	9.076E+04	4.059E+04	4.099E+04	2.302E+04	2.355E+04	1.481E+04	1.495E+04	7.597E+03	7.672E+03	3.739E+03	3.775E+03
3	1.776E+04	1.802E+04	8.020E+03	8.136E+03	4.548E+03	4.614E+03	2.925E+03	2.968E+03	1.501E+03	1.523E+03	7.387E+02	7.494E+02
4	5.621E+03	5.728E+03	2.539E+03	2.587E+03	1.440E+03	1.467E+03	9.259E+02	9.436E+02	4.751E+02	4.842E+02	2.338E+02	2.383E+02
6	1.111E+03	1.142E+03	5.119E+02	5.159E+02	2.847E+02	2.996E+02	1.831E+02	1.882E+02	9.394E+01	9.656E+01	4.623E+01	4.752E+01
8	3.522E+02	3.649E+02	1.590E+02	1.648E+02	9.019E+01	9.345E+01	5.801E+01	6.010E+01	2.977E+01	3.084E+01	1.465E+01	1.518E+01
10	1.445E+02	1.508E+02	6.526E+01	6.811E+01	3.701E+01	3.843E+01	2.380E+01	2.484E+01	1.221E+01	1.275E+01	6.011E+00	6.273E+00
15	2.872E+01	3.043E+01	1.297E+01	1.374E+01	7.357E+00	7.794E+00	4.732E+00	5.013E+00	2.428E+00	2.572E+00	1.195E+00	1.266E+00
20	9.171E+00	9.812E+00	4.142E+00	4.431E+00	2.349E+00	2.513E+00	1.511E+00	1.616E+00	7.751E+01	8.293E+01	3.815E+01	4.081E+01
30	1.858E+00	1.997E+00	8.392E+01	9.017E+01	4.759E+01	5.114E+01	3.061E+01	3.289E+01	1.571E+01	1.688E+01	7.729E+02	8.305E+02
45	3.888E+01	4.039E+01	1.756E+01	1.824E+01	9.958E+02	1.034E+01	6.404E+02	6.652E+02	3.286E+02	3.413E+02	1.617E+02	1.680E+02
60	1.334E+01	1.274E+01	6.025E+02	5.754E+02	3.417E+02	3.263E+02	2.198E+02	2.099E+02	1.128E+02	1.077E+02	5.549E+03	5.299E+03
75	6.072E+02	5.049E+02	2.742E+02	2.280E+02	1.555E+02	1.293E+02	1.009E+02	8.316E+03	5.132E+03	4.267E+03	2.525E+03	2.100E+03
90	3.315E+02	2.271E+02	1.506E+02	1.025E+02	8.542E+03	5.814E+03	5.494E+03	3.739E+03	2.219E+03	1.919E+03	1.387E+03	9.442E+04
120	1.482E+02	5.271E+03	6.695E+03	2.379E+03	3.797E+03	1.349E+03	2.442E+03	8.673E+04	1.253E+03	4.450E+04	1.666E+03	2.190E+04
150	9.579E+03	9.393E+04	4.326E+03	4.227E+04	2.453E+03	2.304E+04	1.578E+03	1.539E+04	8.096E+04	7.893E+05	3.984E+04	3.883E+05
179	8.349E+03	6.515E+06	3.766E+03	1.569E+06	2.136E+03	6.050E+07	1.374E+03	3.050E+07	7.049E+04	1.186E+07	3.469E+04	4.839E+08

CO (7)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.632E+14	1.633E+14	7.260E+13	7.265E+13	4.0A8E+13	4.090E+13	1.820E+13	1.822E+13	1.026E+13	1.027E+13	6.579E+12	6.584E+12
2	1.020E+13	1.021E+13	4.539E+12	4.541E+12	2.555E+12	2.557E+12	1.138E+12	1.139E+12	6.413E+11	6.418E+11	4.112E+11	4.116E+11
3	2.016E+12	2.017E+12	8.967E+11	8.973E+11	5.049E+11	5.053E+11	2.248E+11	2.250E+11	1.267E+11	1.268E+11	8.125E+10	8.133E+10
4	6.389E+11	6.384E+11	2.838E+11	2.840E+11	1.598E+11	1.599E+11	7.116E+10	7.123E+10	4.011E+10	4.015E+10	2.572E+10	2.575E+10
6	1.262E+11	1.262E+11	5.612E+10	5.617E+10	3.160E+10	3.163E+10	1.407E+10	1.408E+10	7.931E+09	7.940E+09	5.085E+09	5.093E+09
8	3.997E+10	4.000E+10	1.778E+10	1.780E+10	1.001E+10	1.002E+10	4.459E+09	4.464E+09	2.513E+09	2.517E+09	1.611E+09	1.614E+09
10	1.640E+10	1.642E+10	7.297E+09	7.304E+09	4.109E+09	4.112E+09	1.830E+09	1.832E+09	1.031E+09	1.033E+09	6.612E+08	6.626E+08
15	3.261E+09	3.264E+09	1.451E+09	1.452E+09	8.167E+08	8.1A0E+08	3.637E+08	3.645E+08	2.050E+08	2.054E+08	1.314E+08	1.317E+08
20	1.041E+09	1.042E+09	4.631E+08	4.638E+08	2.607E+08	2.613E+08	1.161E+08	1.164E+08	6.544E+07	6.554E+07	4.196E+07	4.202E+07
20	2.109E+08	2.113E+08	9.383E+07	9.407E+07	5.283E+07	5.292E+07	2.353E+07	2.354E+07	1.326E+07	1.327E+07	8.502E+06	8.523E+06
45	4.413E+07	4.421E+07	1.963E+07	1.962E+07	1.105E+07	1.104E+07	4.922E+06	4.929E+06	2.774E+06	2.790E+06	1.779E+06	1.797E+06
60	1.514E+07	1.510E+07	6.737E+06	6.720E+06	3.793E+06	3.795E+06	1.689E+06	1.703E+06	9.520E+05	9.664E+05	6.104E+05	6.234E+05
75	6.891E+06	6.858E+06	3.066E+06	3.069E+06	1.726E+06	1.739E+06	7.687E+05	7.827E+05	4.332E+05	4.447E+05	2.778E+05	2.869E+05
90	3.786E+06	3.788E+06	1.684E+06	1.703E+06	9.483E+05	9.646E+05	4.223E+05	4.353E+05	2.380E+05	2.472E+05	1.526E+05	1.593E+05
120	1.683E+06	1.747E+06	7.485E+05	7.849E+05	4.215E+05	4.447E+05	1.877E+05	1.994E+05	1.058E+05	1.128E+05	6.743E+04	7.244E+04
150	1.087E+06	1.179E+06	4.837E+05	5.267E+05	2.723E+05	2.972E+05	1.213E+05	1.325E+05	6.835E+04	7.461E+04	4.383E+04	4.775E+04
179	9.466E+05	1.045E+06	4.211E+05	4.657E+05	2.371E+05	2.623E+05	1.056E+05	1.167E+05	5.951E+04	6.558E+04	3.816E+04	4.191E+04
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	3.370E+12	3.372E+12	1.661E+12	1.662E+12	7.450E+11	7.457E+11	4.230E+11	4.234E+11	1.915E+11	1.917E+11	1.096F+11	1.098E+11
2	2.106E+11	2.108E+11	1.038E+11	1.039E+11	4.657E+10	4.663E+10	2.644E+10	2.648E+10	1.197E+10	1.199F+10	6.852F+09	6.870E+09
3	4.162E+10	4.166E+10	2.051E+10	2.054E+10	9.202E+09	9.217E+09	5.224E+09	5.235E+09	2.365E+09	2.371F+09	1.354F+09	1.359E+09
4	1.317E+10	1.319E+10	6.491E+09	6.502E+09	2.912E+09	2.918E+09	1.654E+09	1.658E+09	7.484E+08	7.512F+08	4.285F+08	4.305E+08
6	2.605E+09	2.609E+09	1.284E+09	1.286E+09	5.759E+08	5.774E+08	3.270E+08	3.281E+08	1.488E+08	1.488F+08	8.473F+07	8.534E+07
8	6.253E+08	6.269E+08	4.067E+08	4.076E+08	1.825E+08	1.831E+08	1.036E+08	1.041E+08	4.689E+07	4.724F+07	2.685E+07	2.712E+07
10	3.387E+08	3.394E+08	1.669E+08	1.673E+08	7.488E+07	7.519E+07	4.251E+07	4.277E+07	1.924E+07	1.943F+07	1.102F+07	1.116E+07
15	6.732E+07	6.746E+07	3.318E+07	3.329E+07	1.488E+07	1.499E+07	8.451E+06	8.541E+06	3.825E+06	3.889E+06	2.190E+06	2.236E+06
20	2.149E+07	2.155E+07	1.059E+07	1.065E+07	4.752E+06	4.806E+06	2.698E+06	2.742E+06	1.221E+06	1.250E+06	6.991F+05	7.199E+05
30	4.355E+06	4.384E+06	2.146E+06	2.174E+06	9.628E+05	9.842E+05	5.467E+05	5.625E+05	2.474E+05	2.570F+05	1.417E+05	1.481E+05
45	9.111E+05	9.276E+05	4.490E+05	4.614E+05	2.015E+05	2.092E+05	1.144E+05	1.196E+05	5.177E+04	5.464F+04	2.964F+04	3.146E+04
60	3.126E+05	3.222E+05	1.541E+05	1.603E+05	6.913E+04	7.262E+04	3.925E+04	4.147E+04	1.776E+04	1.888F+04	1.017E+04	1.084E+04
75	1.423E+05	1.482E+05	7.012E+04	7.361E+04	3.146E+04	3.325E+04	1.786E+04	1.893E+04	8.084E+03	8.575F+03	4.629F+03	4.899E+03
90	7.816E+04	8.216E+04	3.852E+04	4.069E+04	1.728E+04	1.830E+04	9.812E+03	1.038E+04	4.441E+03	4.671E+03	2.543F+03	2.652E+03
120	3.474E+04	3.712E+04	1.712E+04	1.825E+04	7.681E+03	8.120E+03	4.361E+03	4.564E+03	1.974E+03	2.021F+03	1.130F+03	1.132E+03
150	2.245E+04	2.433E+04	1.106E+04	1.187E+04	4.963E+03	5.234E+03	2.818E+03	2.919E+03	1.275E+03	1.275E+03	7.302F+02	7.054E+02
179	1.954E+04	2.130E+04	9.631E+03	1.037E+04	4.321E+03	4.554E+03	2.453E+03	2.532E+03	1.110E+03	1.100F+03	6.358F+02	6.055E+02
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	7.137E+10	7.150E+10	3.764E+10	3.772E+10	1.932E+10	1.937E+10	9.211E+09	9.240E+09	5.514E+09	5.533F+09	2.724F+09	2.735E+09
2	4.462E+09	4.475E+09	2.353E+09	2.362E+09	1.208E+09	1.213E+09	5.758E+08	5.791E+08	3.447E+08	3.469F+08	1.703F+08	1.716E+08
3	8.815E+08	8.853E+08	4.649E+08	4.675E+08	2.386E+08	2.403E+08	1.138E+08	1.147E+08	6.810E+07	6.877F+07	3.365F+07	3.403E+07
4	2.790E+08	2.806E+08	1.471E+08	1.482E+08	7.553E+07	7.653E+07	3.601E+07	3.642E+07	2.156E+07	2.183F+07	1.065F+07	1.081E+07
6	5.517E+07	5.565E+07	2.909E+07	2.942E+07	1.493E+07	1.515E+07	7.120E+06	7.242E+06	4.263E+06	4.345F+06	2.106E+06	2.152E+06
8	1.748E+07	1.769E+07	9.219E+06	9.361E+06	4.732E+06	4.822E+06	2.256E+06	2.308E+06	1.351E+06	1.385E+06	6.673F+05	6.867E+05
10	7.173E+06	7.285E+06	3.783E+06	3.857E+06	1.942E+06	1.998E+06	9.257E+05	9.523E+05	5.542E+05	5.718F+05	2.738F+05	2.836E+05
15	1.420E+06	1.461E+06	7.520E+05	7.748E+05	3.860E+05	3.999E+05	1.840E+05	1.918E+05	1.102E+05	1.152F+05	5.443F+04	5.720E+04
20	4.552E+05	4.707E+05	2.401E+05	2.498E+05	1.232E+05	1.280E+05	5.875E+04	6.191E+04	3.517E+04	3.721F+04	1.738F+04	1.847E+04
30	9.224E+04	9.688E+04	4.864E+04	5.143E+04	2.497E+04	2.666E+04	1.190E+04	1.275E+04	7.126E+03	7.464E+03	3.521F+03	3.791E+03
45	1.930E+04	2.056E+04	1.018E+04	1.089E+04	5.275E+03	5.602E+03	2.491E+03	2.672E+03	1.491E+03	1.598F+03	7.367F+02	7.869E+02
60	6.623E+03	7.060E+03	3.493E+03	3.719E+03	1.793E+03	1.901E+03	8.547E+02	8.979E+02	5.116E+02	5.327E+02	2.528F+02	2.593E+02
75	3.014E+03	3.178E+03	1.589E+03	1.661E+03	8.159E+02	8.405E+02	3.889E+02	3.915E+02	2.398E+02	2.296F+02	1.150F+02	1.098E+02
90	1.650E+03	1.712E+03	8.731E+02	8.858E+02	4.482E+02	4.453E+02	2.137E+02	2.023E+02	1.279E+02	1.169F+02	6.320F+01	5.457E+01
120	7.358E+02	7.211E+02	3.881E+02	3.645E+02	1.992E+02	1.742E+02	9.496E+01	7.688E+01	5.685F+01	4.258F+01	2.809F+01	1.853E+01
150	4.755E+02	4.442E+02	2.508E+02	2.197E+02	1.287E+02	1.030E+02	6.136E+01	4.277E+01	3.673F+01	2.261F+01	1.815F+01	8.992E+00
179	4.140E+02	3.795E+02	2.183E+02	1.860E+02	1.121E+02	8.607E+01	5.342E+01	3.495E+01	3.198E+01	1.805E+01	1.580F+01	8.442F+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.671E+09	1.679E+09	1.150E+09	1.155E+09	6.576E+08	6.608E+08	3.638E+08	3.657E+08	1.841E+08	1.851E+08	1.125E+08	1.130E+08
2	1.045E+08	1.053E+08	7.188E+07	7.250E+07	4.111E+07	4.149E+07	2.274E+07	2.296E+07	1.151E+07	1.162E+07	7.030E+06	7.099E+06
3	2.064E+07	2.089E+07	1.420E+07	1.438E+07	8.122E+06	8.231E+06	4.494E+06	4.556E+06	2.274E+06	2.307E+06	1.389E+06	1.409E+06
4	6.534E+06	6.638E+06	4.495E+06	4.571E+06	2.571E+06	2.619E+06	1.422E+06	1.449E+06	7.198E+05	7.334E+05	4.396E+05	4.481E+05
6	1.292E+06	1.322E+06	8.889E+05	9.109E+05	5.083E+05	5.219E+05	2.812E+05	2.889E+05	1.423E+05	1.463E+05	8.693E+04	8.938E+04
8	4.093E+05	4.221E+05	2.816E+05	2.908E+05	1.611E+05	1.665E+05	8.911E+04	9.227E+04	4.509E+04	4.673E+04	2.754E+04	2.858E+04
10	1.680E+05	1.744E+05	1.156E+05	1.202E+05	6.609E+04	6.844E+04	3.657E+04	3.814E+04	1.850E+04	1.932E+04	1.130E+04	1.181E+04
15	3.339E+04	3.519E+04	2.297E+04	2.425E+04	1.314E+04	1.340E+04	7.269E+03	7.702E+03	3.679E+03	3.902E+03	2.247E+03	2.385E+03
20	1.066E+04	1.136E+04	7.334E+03	7.832E+03	4.194E+03	4.488E+03	2.321E+03	2.487E+03	1.174E+03	1.260E+03	7.173E+02	7.698E+02
30	2.160E+03	2.329E+03	1.486E+03	1.604E+03	8.499E+02	9.179E+02	4.702E+02	5.081E+02	2.379E+02	2.572E+02	1.453E+02	1.571E+02
45	4.519E+02	4.812E+02	3.109E+02	3.302E+02	1.778E+02	1.881E+02	9.838E+01	1.037E+02	4.979E+01	5.236E+01	3.041E+01	3.194E+01
60	1.551E+02	1.573E+02	1.067E+02	1.073E+02	6.102E+01	6.043E+01	3.376E+01	3.321E+01	1.708E+01	1.667E+01	1.041E+01	1.014E+01
75	7.057E+01	6.579E+01	4.856E+01	4.447E+01	2.777E+01	2.482E+01	1.536E+01	1.345E+01	7.775E+00	6.695E+00	4.749E+00	4.057E+00
90	3.877E+01	3.211E+01	2.667E+01	2.141E+01	1.525E+01	1.173E+01	8.440E+00	6.254E+00	4.271E+00	3.071E+00	2.609E+00	1.849E+00
120	1.723E+01	1.030E+01	1.186E+01	6.562E+00	6.780E+00	3.358E+00	3.751E+00	1.678E+00	1.898E+00	7.779E-01	1.159E+00	4.549E-01
150	1.113E+01	4.599E+00	7.661E+00	2.711E+00	4.381E+00	1.212E+00	2.424E+00	5.166E-01	1.227E+00	2.004E-01	7.492E-01	1.052E-01
179	9.644E+00	3.323E+00	6.670E+00	1.855E+00	3.814E+00	7.390E-01	2.110E+00	2.626E-01	1.068E+00	7.505E-02	6.523E-01	2.942E-02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	5.517E+07	5.546E+07	3.286E+07	3.303E+07	2.183E+07	2.194E+07	1.166E+07	1.172E+07	5.925E+06	5.957E+06	2.714E+06	2.729E+06
2	3.448E+06	3.483E+06	2.054E+06	2.074E+06	1.364E+06	1.378E+06	7.287E+05	7.360E+05	3.704E+05	3.741E+05	1.695E+05	1.714E+05
3	6.813E+05	6.914E+05	4.058E+05	4.118E+05	2.696E+05	2.736E+05	1.440E+05	1.461E+05	7.318E+04	7.428E+04	3.352E+04	3.402E+04
4	2.157E+05	2.199E+05	1.284E+05	1.310E+05	8.532E+04	8.709E+04	4.557E+04	4.646E+04	2.316E+04	2.362E+04	1.061E+04	1.082E+04
6	4.264E+04	4.386E+04	2.540E+04	2.613E+04	1.682E+04	1.736E+04	9.010E+03	9.270E+03	4.580E+03	4.712E+03	2.098E+03	2.158E+03
8	1.351E+04	1.401E+04	8.047E+03	8.347E+03	5.346E+03	5.546E+03	2.855E+03	2.962E+03	1.451E+03	1.506E+03	6.847E+02	6.869E+02
10	5.544E+03	5.794E+03	3.302E+03	3.452E+03	2.194E+03	2.293E+03	1.172E+03	1.225E+03	5.955E+02	6.226E+02	2.788E+02	2.852E+02
15	1.102E+03	1.170E+03	6.564E+02	6.972E+02	4.361E+02	4.632E+02	2.329E+02	2.474E+02	1.184E+02	1.258E+02	5.422E+01	5.760E+01
20	3.519E+02	3.778E+02	2.096E+02	2.250E+02	1.392E+02	1.495E+02	7.435E+01	7.985E+01	3.779E+01	4.059E+01	1.731E+01	1.859E+01
30	7.129E+01	7.706E+01	4.246E+01	4.589E+01	2.821E+01	3.049E+01	1.508E+01	1.628E+01	7.658E+00	8.277E+00	3.507E+00	3.791E+00
45	1.492E+01	1.565E+01	8.884E+00	9.315E+00	5.902E+00	6.146E+00	3.152E+00	3.303E+00	1.602E+00	1.679E+00	7.339E-01	7.689E-01
60	5.119E+00	4.959E+00	3.049E+00	2.949E+00	2.025E+00	1.958E+00	1.082E+00	1.045E+00	5.498E-01	5.310E-01	2.518E-01	2.431E-01
75	2.329E+00	1.975E+00	1.387E+00	1.174E+00	9.216E-01	7.785E-01	4.922E-01	4.152E-01	2.502E-01	2.109E-01	1.146E-01	9.655E-02
90	1.280E+00	8.955E-01	7.621E-01	5.305E-01	5.063E-01	3.515E-01	2.704E-01	1.872E-01	1.374E-01	9.504E-02	6.295E-02	4.350E-02
120	5.687E-01	2.144E-01	3.387E-01	1.256E-01	2.250E-01	8.271E-02	1.202E-01	4.381E-02	6.109E-02	2.217E-02	2.798E-02	1.013E-02
150	3.675E-01	4.421E-02	2.189E-01	2.451E-02	1.454E-01	1.567E-02	7.765E-02	8.062E-03	3.947E-02	4.009E-03	1.808E-02	1.813E-03
179	3.200E-01	7.398E-03	1.906E-01	2.677E-03	1.266E-01	1.196E-03	6.761E-02	3.475E-04	3.437E-02	9.211E-05	1.574E-02	2.034E-05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.551E+06	1.559E+06	7.003E+05	7.040E+05	3.971E+05	3.993E+05	2.554E+05	2.568E+05	1.311E+05	1.318E+05	6.450E+04	6.484E+04
2	9.693E+04	9.791E+04	4.377E+04	4.422E+04	2.482E+04	2.508E+04	1.597E+04	1.613E+04	8.192E+03	8.275E+03	4.032E+03	4.072E+03
3	1.915E+04	1.944E+04	8.649E+03	8.778E+03	4.905E+03	4.978E+03	3.155E+03	3.202E+03	1.619E+03	1.643E+03	7.966E+02	8.085E+02
4	6.062E+03	6.181E+03	2.738E+03	2.792E+03	1.552E+03	1.583E+03	9.985E+02	1.019E+03	5.123E+02	5.224E+02	2.521E+02	2.571E+02
6	1.199E+03	1.233E+03	5.413E+02	5.569E+02	3.070E+02	3.158E+02	1.974E+02	2.031E+02	1.013E+02	1.042E+02	4.985E+01	5.129E+01
8	3.798E+02	3.940E+02	1.715E+02	1.779E+02	9.727E+01	1.009E+02	6.256E+01	6.491E+01	3.210E+01	3.330E+01	1.580E+01	1.639E+01
10	1.558E+02	1.629E+02	7.038E+01	7.358E+01	3.991E+01	4.173E+01	2.567E+01	2.684E+01	1.317E+01	1.377E+01	6.482E+00	6.777E+00
15	3.098E+01	3.291E+01	1.399E+01	1.486E+01	7.934E+00	8.427E+00	5.103E+00	5.421E+00	2.618E+00	2.782E+00	1.289E+00	1.369E+00
20	8.890E+00	1.062E+01	4.866E+00	4.797E+00	2.533E+00	2.721E+00	1.629E+00	1.750E+00	8.359E-01	8.979E-01	4.114E-01	4.418E-01
30	2.004E+00	2.166E+00	9.050E-01	9.782E-01	5.132E-01	5.547E-01	3.301E-01	3.568E-01	1.694E-01	1.831E-01	8.335E-02	9.009E-02
45	4.193E-01	4.393E-01	1.894E-01	1.984E-01	1.074E-01	1.125E-01	6.907E-02	7.236E-02	3.544E-02	3.713E-02	1.744E-02	1.827E-02
60	1.439E-01	1.389E-01	6.498E-02	6.273E-02	3.685E-02	3.557E-02	2.370E-02	2.288E-02	1.216E-02	1.174E-02	5.984E-03	5.777E-03
75	6.548E-02	5.516E-02	2.957E-02	2.491E-02	1.677E-02	1.412E-02	1.079E-02	9.084E-03	5.534E-03	4.661E-03	2.723E-03	2.294E-03
90	3.597E-02	2.484E-02	1.624E-02	1.122E-02	9.212E-03	6.361E-03	5.925E-03	4.091E-03	3.040E-03	2.099E-03	1.498E-03	1.033E-03
120	1.599E-02	5.780E-03	7.220E-03	2.608E-03	4.094E-03	1.479E-03	2.633E-03	9.510E-04	1.351E-03	4.879E-04	6.649E-04	2.401E-04
150	1.033E-02	1.031E-03	4.665E-03	4.841E-04	2.646E-03	2.629E-04	1.702E-03	1.690E-04	8.731E-04	8.666E-05	4.297E-04	4.264E-05
179	8.994E-03	7.084E-06	4.062E-03	1.599E-06	2.303E-03	6.598E-07	1.481E-03	3.331E-07	7.602E-04	1.298E-07	3.741E-04	5.303E-08

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(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.755E+14	1.756E+14	7.808E+13	7.813E+13	4.396E+13	4.369E+13	1.958E+13	1.959E+13	1.103E+13	1.104E+13	7.075E+12	7.080E+12
2	1.097E+13	1.098E+13	4.881E+12	4.884E+12	2.748E+12	2.750E+12	1.224E+12	1.225E+12	6.897E+11	6.903E+11	4.426E+11	4.426E+11
3	2.168E+12	2.169E+12	9.644E+11	9.650E+11	5.430E+11	5.434E+11	2.418E+11	2.420E+11	1.363E+11	1.364E+11	8.738E+10	8.746E+10
4	6.861E+11	6.866E+11	3.052E+11	3.055E+11	1.719E+11	1.720E+11	7.653E+10	7.660E+10	4.313E+10	4.317E+10	2.766E+10	2.769E+10
6	1.357E+11	1.358E+11	6.036E+10	6.040E+10	3.398E+10	3.401E+10	1.513E+10	1.515E+10	8.529E+09	8.539E+09	5.469E+09	5.477E+09
8	4.299E+10	4.302E+10	1.912E+10	1.914E+10	1.077E+10	1.078E+10	4.795E+09	4.800E+09	2.702E+09	2.707E+09	1.733E+09	1.736E+09
10	1.764E+10	1.765E+10	7.844E+09	7.856E+09	4.419E+09	4.423E+09	1.968E+09	1.970E+09	1.109E+09	1.111E+09	7.111E+08	7.126E+08
15	3.507E+09	3.510E+09	1.560E+09	1.561E+09	8.784E+08	8.786E+08	3.911E+08	3.921E+08	2.204E+08	2.210E+08	1.414E+08	1.417E+08
20	1.119E+09	1.120E+09	4.980E+08	4.987E+08	2.804E+08	2.811E+08	1.249E+08	1.252E+08	7.037E+07	7.050E+07	4.513E+07	4.519E+07
30	2.268E+08	2.272E+08	1.009E+08	1.012E+08	5.682E+07	5.694E+07	2.530E+07	2.532E+07	1.426E+07	1.427E+07	9.144E+06	9.161E+06
45	4.746E+07	4.757E+07	2.111E+07	2.111E+07	1.189E+07	1.187E+07	5.294E+06	5.297E+06	2.984E+06	2.997E+06	1.913E+06	1.930E+06
60	1.629E+07	1.625E+07	7.245E+06	7.222E+06	4.079E+06	4.077E+06	1.817E+06	1.829E+06	1.024E+06	1.038E+06	6.565E+05	6.700E+05
75	7.411E+06	7.367E+06	3.297E+06	3.295E+06	1.856E+06	1.867E+06	8.267E+05	8.410E+05	4.659E+05	4.780E+05	2.988E+05	3.086E+05
90	4.071E+06	4.066E+06	1.811E+06	1.829E+06	1.020E+06	1.039E+06	4.541E+05	4.602E+05	2.559E+05	2.661E+05	1.641E+05	1.716E+05
120	1.810E+06	1.879E+06	8.050E+05	8.455E+05	4.530E+05	4.793E+05	2.018E+05	2.152E+05	1.138E+05	1.218E+05	7.294E+04	7.826E+04
150	1.169E+06	1.274E+06	5.202E+05	5.694E+05	2.929E+05	3.215E+05	1.304E+05	1.434E+05	7.351E+04	8.080E+04	4.713E+04	5.173E+04
179	1.018E+06	1.131E+06	4.529E+05	5.044E+05	2.550E+05	2.842E+05	1.136E+05	1.265E+05	6.400E+04	7.111E+04	4.104E+04	4.545E+04
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	3.624E+12	3.626E+12	1.786E+12	1.787E+12	8.012E+11	8.020E+11	4.549E+11	4.554E+11	2.059E+11	2.062E+11	1.179E+11	1.181E+11
2	2.265E+11	2.267E+11	1.116E+11	1.118E+11	5.008E+10	5.015E+10	2.844E+10	2.848E+10	1.287E+10	1.290E+10	7.369E+09	7.388E+09
3	4.476E+10	4.481E+10	2.206E+10	2.209E+10	9.896E+09	9.913E+09	5.618E+09	5.630E+09	2.543E+09	2.550E+09	1.456E+09	1.461E+09
4	1.417E+10	1.419E+10	6.981E+09	6.993E+09	3.132E+09	3.139E+09	1.778E+09	1.783E+09	8.049E+08	8.078E+08	4.608E+08	4.630E+08
6	2.801E+09	2.806E+09	1.380E+09	1.383E+09	6.193E+08	6.209E+08	3.516E+08	3.528E+08	1.592E+08	1.600E+08	9.112E+07	9.178E+07
8	8.875E+08	8.894E+08	4.374E+08	4.384E+08	1.962E+08	1.969E+08	1.114E+08	1.119E+08	5.043E+07	5.080E+07	2.887E+07	2.916E+07
10	3.642E+08	3.650E+08	1.795E+08	1.799E+08	8.053E+07	8.064E+07	4.572E+07	4.599E+07	2.069E+07	2.089E+07	1.185E+07	1.200E+07
15	7.240E+07	7.255E+07	3.568E+07	3.580E+07	1.601E+07	1.612E+07	9.089E+06	9.183E+06	4.114E+06	4.182E+06	2.355E+06	2.406E+06
20	2.311E+07	2.317E+07	1.139E+07	1.145E+07	5.110E+06	5.168E+06	2.901E+06	2.948E+06	1.313E+06	1.345E+06	7.519E+05	7.746E+05
30	4.683E+06	4.711E+06	2.308E+06	2.337E+06	1.035E+06	1.068E+06	5.879E+05	6.051E+05	2.661E+05	2.766E+05	1.524E+05	1.595E+05
45	9.799E+05	9.969E+05	4.829E+05	4.961E+05	2.167E+05	2.252E+05	1.230E+05	1.288E+05	5.567E+04	5.890E+04	3.188E+04	3.393E+04
60	3.362E+05	3.455E+05	1.657E+05	1.726E+05	7.434E+04	7.855E+04	4.221E+04	4.471E+04	1.910E+04	2.038E+04	1.094E+04	1.170E+04
75	1.530E+05	1.596E+05	7.541E+04	7.933E+04	3.383E+04	3.587E+04	1.921E+04	2.044E+04	8.694E+03	9.267E+03	4.978E+03	5.297E+03
90	8.406E+04	8.856E+04	4.143E+04	4.390E+04	1.859E+04	1.977E+04	1.055E+04	1.122E+04	4.776E+03	5.052E+03	2.735E+03	2.871E+03
120	3.736E+04	4.013E+04	1.841E+04	1.974E+04	8.260E+03	8.788E+03	4.690E+03	4.942E+03	2.123E+03	2.190E+03	1.215E+03	1.227E+03
150	2.414E+04	2.636E+04	1.190E+04	1.287E+04	5.338E+03	5.676E+03	3.036E+03	3.165E+03	1.372E+03	1.383E+03	7.853E+02	7.649E+02
179	2.102E+04	2.311E+04	1.036E+04	1.125E+04	4.647E+03	4.941E+03	2.638E+03	2.747E+03	1.194E+03	1.193E+03	6.837E+02	6.568E+02
DEG	8.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	7.676E+10	7.689E+10	4.048E+10	4.057E+10	2.078E+10	2.083E+10	9.906E+09	9.938E+09	5.930E+09	5.951E+09	2.930E+09	2.942E+09
2	4.798E+09	4.812E+09	2.530E+09	2.540E+09	1.299E+09	1.305E+09	6.192E+08	6.229E+08	3.707E+08	3.732E+08	1.832E+08	1.846E+08
3	9.480E+08	9.521E+08	5.000E+08	5.027E+08	2.566E+08	2.584E+08	1.223E+08	1.234E+08	7.324E+07	7.397E+07	3.619E+07	3.660E+07
4	3.001E+08	3.018E+08	1.582E+08	1.594E+08	8.123E+07	8.199E+07	3.872E+07	3.918E+07	2.318E+07	2.349E+07	1.145E+07	1.163E+07
6	5.933E+07	5.985E+07	3.129E+07	3.165E+07	1.606E+07	1.639E+07	7.657E+06	7.792E+06	4.584E+06	4.675E+06	2.265E+06	2.316E+06
8	1.880E+07	1.903E+07	9.914E+06	1.007E+07	5.089E+06	5.188E+06	2.426E+06	2.483E+06	1.452E+06	1.491E+06	7.176E+05	7.392E+05
10	7.714E+06	7.835E+06	4.068E+06	4.150E+06	2.088E+06	2.140E+06	9.956E+05	1.025E+06	5.960E+05	6.156E+05	2.945E+05	3.054E+05
15	1.534E+06	1.572E+06	8.088E+05	8.339E+05	4.151E+05	4.306E+05	1.579E+05	1.666E+05	1.185E+05	1.242E+05	5.854E+04	6.165E+04
20	4.896E+05	5.066E+05	2.582E+05	2.690E+05	1.325E+05	1.380E+05	6.318E+04	6.672E+04	3.782E+04	4.012E+04	1.869E+04	1.992E+04
30	9.920E+04	1.044E+05	5.231E+04	5.544E+04	2.685E+04	2.865E+04	1.280E+04	1.375E+04	7.664E+03	8.258E+03	3.787E+03	4.096E+03
45	2.076E+04	2.218E+04	1.095E+04	1.176E+04	5.619E+03	6.054E+03	2.679E+03	2.890E+03	1.604E+03	1.729E+03	7.923E+02	8.520E+02
60	7.122E+03	7.630E+03	3.756E+03	4.022E+03	1.928E+03	2.067E+03	9.191E+02	9.726E+02	5.502E+02	5.774E+02	2.719E+02	2.813E+02
75	3.241E+03	3.438E+03	1.709E+03	1.799E+03	8.774E+02	9.106E+02	4.183E+02	4.245E+02	2.504E+02	2.492E+02	1.237E+02	1.193E+02
90	1.781E+03	1.853E+03	9.330E+02	9.597E+02	4.820E+02	4.796E+02	2.298E+02	2.195E+02	1.376E+02	1.269E+02	6.797E+01	5.931E+01
120	7.913E+02	7.815E+02	4.173E+02	3.951E+02	2.142E+02	1.911E+02	1.021E+02	8.341E+01	6.114E+01	4.823E+01	3.021E+01	2.014E+01
150	5.113E+02	4.817E+02	2.697E+02	2.382E+02	1.384E+02	1.117E+02	6.599E+01	4.638E+01	3.951E+01	2.451E+01	1.952E+01	9.755E+00
179	4.452E+02	4.116E+02	2.348E+02	2.017E+02	1.205E+02	9.331E+01	5.746E+01	3.788E+01	3.440E+01	1.956E+01	1.699E+01	7.413E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.797E+09	1.805E+09	1.237E+09	1.242E+09	7.072E+08	7.107E+08	3.913E+08	3.933E+08	1.980E+08	1.991E+08	1.209F+08	1.216E+08
2	1.124E+08	1.133E+08	7.731E+07	7.798E+07	4.421E+07	4.462E+07	2.446E+07	2.470E+07	1.238E+07	1.250F+07	7.560F+06	7.637E+06
3	2.220E+07	2.247E+07	1.527E+07	1.547E+07	8.735E+06	8.866E+06	4.833E+06	4.902E+06	2.466E+06	2.482E+06	1.494E+06	1.516E+06
4	7.027E+06	7.142E+06	4.835E+06	4.918E+06	2.765E+06	2.815E+06	1.530E+06	1.559E+06	7.741E+05	7.892F+05	4.728F+05	4.822E+05
6	1.389E+06	1.423E+06	9.559E+05	9.804E+05	5.467E+05	5.614E+05	3.025E+05	3.109E+05	1.531E+05	1.575E+05	9.349F+04	9.622E+04
8	4.402E+05	4.544E+05	3.029E+05	3.131E+05	1.732E+05	1.793E+05	9.584E+04	9.935E+04	4.850E+04	5.033F+04	2.962F+04	3.075E+04
10	1.806E+05	1.878E+05	1.243E+05	1.294E+05	7.108E+04	7.415E+04	3.933E+04	4.109E+04	1.990E+04	2.082E+04	1.216F+04	1.272E+04
15	3.591E+04	3.793E+04	2.471E+04	2.614E+04	4.113E+04	4.499E+04	7.818E+03	8.305E+03	3.956E+03	4.208E+03	2.416F+03	2.572E+03
20	1.146E+04	1.226E+04	7.888E+03	8.450E+03	4.511E+03	4.843E+03	2.496E+03	2.684E+03	1.263E+03	1.360E+03	7.714F+02	8.310E+02
30	2.323E+03	2.517E+03	1.598E+03	1.734E+03	9.140E+02	9.925E+02	5.057E+02	5.495E+02	2.559F+02	2.781F+02	1.563F+02	1.699E+02
45	4.860E+02	5.213E+02	3.344E+02	3.578E+02	1.912E+02	2.039E+02	1.058E+02	1.125E+02	5.354E+01	5.678E+01	3.270F+01	3.464E+01
60	1.668E+02	1.707E+02	1.147E+02	1.165E+02	6.562E+01	6.586E+01	3.631E+01	3.609E+01	1.837F+01	1.812F+01	1.122F+01	1.103E+01
75	7.590E+01	7.150E+01	5.222E+01	4.835E+01	2.986E+01	2.700E+01	1.652E+01	1.454E+01	8.361E+00	7.290E+00	5.107E+00	4.418E+00
90	4.169E+01	3.492E+01	2.869E+01	2.330E+01	1.641E+01	1.277E+01	9.077E+00	6.816E+00	4.593E+00	3.349E+00	2.805F+00	2.017E+00
120	1.853E+01	1.121E+01	1.275E+01	7.142E+00	7.291E+00	3.649E+00	4.034E+00	1.830E+00	2.041E+00	8.494F+01	1.247E+00	4.969E+01
150	1.197E+01	4.991E+00	8.239E+00	2.944E+00	4.711E+00	1.317E+00	2.607E+00	5.621E+01	1.319E+00	2.186F+01	8.057F+01	1.148E+01
179	1.043E+01	3.600E+00	7.173E+00	2.010E+00	4.102E+00	8.005E+01	2.270E+00	2.844E+01	1.148E+00	8.126F+02	7.015F+01	3.186E+02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	5.933E+07	5.965E+07	3.533E+07	3.553E+07	2.347E+07	2.360E+07	1.254E+07	1.260E+07	6.372E+06	6.407E+06	2.919F+06	2.935E+06
2	3.709E+06	3.747E+06	2.209E+06	2.232E+06	1.467E+06	1.482E+06	7.836E+05	7.918E+05	3.983E+05	4.025E+05	1.824F+05	1.843E+05
3	7.328E+05	7.439E+05	4.364E+05	4.431E+05	2.899E+05	2.944E+05	1.548E+05	1.572E+05	7.870E+04	7.992F+04	3.605F+04	3.660E+04
4	2.319E+05	2.366E+05	1.381E+05	1.409E+05	9.176E+04	9.362E+04	4.901E+04	5.000E+04	2.491E+04	2.542E+04	1.141F+04	1.164E+04
6	4.586E+04	4.722E+04	2.731E+04	2.812E+04	1.814E+04	1.868E+04	9.690E+03	9.979E+03	4.926E+03	5.073F+03	2.256E+03	2.324E+03
8	1.453E+04	1.509E+04	8.654E+03	8.989E+03	5.749E+03	5.972E+03	3.070E+03	3.190E+03	1.561E+03	1.621E+03	7.149E+02	7.427E+02
10	5.963E+03	6.243E+03	3.551E+03	3.719E+03	2.359E+03	2.470E+03	1.260E+03	1.320E+03	6.404E+02	6.708F+02	2.933F+02	3.072E+02
15	1.185E+03	1.262E+03	7.060E+02	7.519E+02	4.690E+02	4.995E+02	2.505E+02	2.668E+02	1.273F+02	1.355E+02	5.831F+01	6.212E+01
20	3.784E+02	4.078E+02	2.254E+02	2.429E+02	1.497E+02	1.614E+02	7.996E+01	8.621E+01	4.064E+01	4.382F+01	1.862F+01	2.007E+01
30	7.667E+01	8.336E+01	4.567E+01	4.965E+01	3.034E+01	3.298E+01	1.620E+01	1.762E+01	8.235E+00	8.954F+00	3.772F+00	4.101E+00
45	1.604E+01	1.697E+01	9.555E+00	1.010E+01	6.347E+00	6.711E+00	3.390E+00	3.583E+00	1.723E+00	1.821E+00	7.892F+00	8.341E+00
60	5.505E+00	5.392E+00	3.279E+00	3.207E+00	2.178E+00	2.129E+00	1.163E+00	1.136E+00	5.913E+01	5.773E+01	2.708F+01	2.644E+01
75	2.505E+00	2.153E+00	1.492E+00	1.279E+00	9.912E+01	8.481E+01	5.293E+01	4.523E+01	2.691E+01	2.298F+01	1.232F+01	1.052E+01
90	1.376E+00	9.770E+01	8.197E+01	5.789E+01	5.445E+01	3.835E+01	2.908E+01	2.043E+01	1.478E+01	1.037F+01	6.770F+02	4.746E+02
120	6.117E+01	2.344E+01	3.643E+01	1.373E+01	2.420E+01	9.044E+02	1.292E+01	4.791E+02	6.570E+02	2.424F+02	3.009F+02	1.107E+02
150	3.952E+01	4.832E+02	2.354E+01	2.681E+02	1.564E+01	1.714E+02	8.351E+02	8.824E+03	4.245E+02	4.389F+03	1.944E+02	1.986E+03
179	3.441E+01	8.012E+03	2.049E+01	2.900E+03	1.361E+01	1.296E+03	7.271E+02	3.764E+04	3.696E+02	9.980F+05	1.683E+02	2.205E+05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.668E+06	1.677E+06	7.531E+05	7.572E+05	4.271E+05	4.294E+05	2.747E+05	2.762E+05	1.409E+05	1.417E+05	6.936F+04	6.974E+04
2	1.042E+05	1.053E+05	4.708E+04	4.757E+04	2.670E+04	2.668E+04	1.717E+04	1.735E+04	8.811E+03	8.902F+03	4.336F+03	4.381E+03
3	2.060E+04	2.091E+04	9.301E+03	9.445E+03	5.275E+03	5.356E+03	3.393E+03	3.445E+03	1.741E+03	1.768F+03	8.567F+02	8.699E+02
4	6.519E+03	6.652E+03	2.944E+03	3.064E+03	1.670E+03	1.704E+03	1.074E+03	1.096E+03	5.510E+02	5.622F+02	2.712F+02	2.767E+02
6	1.289E+03	1.328E+03	5.821E+02	5.995E+02	3.301E+02	3.400E+02	2.123E+02	2.187E+02	1.089E+02	1.122E+02	5.362E+01	5.522E+01
8	4.084E+02	4.243E+02	1.845E+02	1.916E+02	1.046E+02	1.087E+02	6.728E+01	6.990E+01	3.452E+01	3.587F+01	1.699F+01	1.765E+01
10	1.676E+02	1.755E+02	7.569E+01	7.928E+01	4.292E+01	4.496E+01	2.761E+01	2.892E+01	1.417E+01	1.484E+01	6.971F+00	7.302E+00
15	3.332E+01	3.549E+01	1.505E+01	1.603E+01	8.533E+00	9.091E+00	5.488E+00	5.847E+00	2.816E+00	3.000F+00	1.386F+00	1.476E+00
20	1.064E+01	1.147E+01	4.803E+00	5.179E+00	2.724E+00	2.947E+00	1.752E+00	1.889E+00	8.990E+01	9.694F+01	4.424E+01	4.770E+01
30	2.155E+00	2.343E+00	9.733E+01	1.058E+00	5.520E+01	6.001E+01	3.550E+01	3.860E+01	1.822E+01	1.981E+01	8.964F+02	9.747E+02
45	4.509E+01	4.766E+01	2.036E+01	2.152E+01	1.155E+01	1.220E+01	7.428E+02	7.850E+02	3.811E+02	4.028E+02	1.876E+02	1.982E+02
60	1.547E+01	1.510E+01	6.988E+02	6.821E+02	3.963E+02	3.868E+02	2.549E+02	2.488E+02	1.308E+02	1.277F+02	6.436F+03	6.282E+03
75	7.042E+02	6.009E+02	3.180E+02	2.713E+02	1.803E+02	1.549E+02	1.160E+02	9.896E+03	5.952E+03	5.078E+03	2.929F+03	2.499E+03
90	3.868E+02	2.711E+02	1.747E+02	1.224E+02	9.907E+03	6.941E+03	6.372E+03	4.464E+03	3.270E+03	2.291E+03	1.609F+03	1.127E+03
120	1.719E+02	6.321E+03	7.764E+03	2.853E+03	4.403E+03	1.617E+03	2.832E+03	1.040E+03	1.453E+03	5.337E+04	7.151F+04	2.626E+04
150	1.111E+02	1.129E+03	5.017E+03	5.083E+04	2.845E+03	2.879E+04	1.830E+03	1.851E+04	9.390E+04	9.491F+05	4.621F+04	4.670E+05
179	9.672E+03	7.685E+06	4.368E+03	1.346E+06	2.477E+03	7.179E+07	1.593E+03	3.628E+07	8.175E+04	1.416F+07	4.023F+04	5.797E+08

CU (29)

(BARNS/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.883E+14	1.884E+14	8.376E+13	8.381E+13	4.716E+13	4.719E+13	2.100E+13	2.101E+13	1.184E+13	1.184E+13	7.590E+12	7.595E+12
2	1.177E+13	1.178E+13	5.236E+12	5.239E+12	2.948E+12	2.950E+12	1.313E+12	1.314E+12	7.399E+11	7.404E+11	4.744E+11	4.748E+11
3	2.329E+12	2.327E+12	1.034E+12	1.035E+12	5.825E+11	5.829E+11	2.594E+11	2.596E+11	1.462E+11	1.463E+11	9.374E+10	9.382E+10
4	7.360E+11	7.365E+11	3.274E+11	3.277E+11	1.844E+11	1.845E+11	8.210E+10	8.217E+10	4.627E+10	4.631E+10	2.967E+10	2.970E+10
6	1.455E+11	1.456E+11	6.474E+10	6.479E+10	3.645E+10	3.649E+10	1.623E+10	1.625E+10	9.149E+09	9.159E+09	5.867E+09	5.875E+09
8	4.611E+10	4.615E+10	2.051E+10	2.053E+10	1.155E+10	1.156E+10	5.144E+09	5.149E+09	2.899E+09	2.903E+09	1.859E+09	1.862E+09
10	1.892E+10	1.894E+10	8.418E+09	8.427E+09	4.740E+09	4.744E+09	2.111E+09	2.114E+09	1.190E+09	1.192E+09	7.629E+08	7.645E+08
15	3.762E+09	3.766E+09	1.673E+09	1.675E+09	9.422E+08	9.434E+08	4.196E+08	4.206E+08	2.365E+08	2.371E+08	1.516E+08	1.520E+08
20	1.201E+09	1.202E+09	5.342E+08	5.348E+08	3.008E+08	3.015E+08	1.339E+08	1.343E+08	7.549E+07	7.564E+07	4.841E+07	4.849E+07
30	2.433E+08	2.437E+08	1.082E+08	1.086E+08	6.095E+07	6.110E+07	2.714E+07	2.716E+07	1.530E+07	1.530E+07	9.809E+06	9.823E+06
45	5.091E+07	5.105E+07	2.265E+07	2.265E+07	1.275E+07	1.274E+07	5.679E+06	5.678E+06	3.200E+06	3.212E+06	2.052E+06	2.069E+06
60	1.747E+07	1.743E+07	7.772E+06	7.744E+06	4.376E+06	4.369E+06	1.949E+06	1.959E+06	1.098E+06	1.113E+06	7.042E+05	7.181E+05
75	7.950E+06	7.895E+06	3.537E+06	3.530E+06	1.991E+06	2.000E+06	8.868E+05	9.011E+05	4.998E+05	5.125E+05	3.205E+05	3.310E+05
90	4.367E+06	4.353E+06	1.943E+06	1.958E+06	1.094E+06	1.113E+06	4.872E+05	5.022E+05	2.746E+05	2.856E+05	1.761E+05	1.843E+05
120	1.941E+06	2.017E+06	8.635E+05	9.083E+05	4.862E+05	5.153E+05	2.165E+05	2.316E+05	1.220E+05	1.311E+05	7.825E+04	8.432E+04
150	1.254E+06	1.373E+06	5.580E+05	6.145E+05	3.142E+05	3.470E+05	1.399E+05	1.549E+05	7.885E+04	8.729E+04	5.056E+04	5.590E+04
179	1.092E+06	1.222E+06	4.858E+05	5.451E+05	2.735E+05	3.072E+05	1.218E+05	1.368E+05	6.865E+04	7.692E+04	4.402E+04	4.918E+04
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	3.887E+12	3.890E+12	1.916E+12	1.917E+12	8.595E+11	8.603E+11	4.880E+11	4.885E+11	2.209E+11	2.212E+11	1.265E+11	1.267E+11
2	2.430E+11	2.432E+11	1.197E+11	1.199E+11	5.373E+10	5.380E+10	3.050E+10	3.055E+10	1.381E+10	1.383E+10	7.905E+09	7.925E+09
3	4.801E+10	4.806E+10	2.366E+10	2.369E+10	1.062E+10	1.063E+10	6.027E+09	6.039E+09	2.782E+09	2.735E+09	1.562E+09	1.567E+09
4	1.524E+10	1.522E+10	7.489E+09	7.502E+09	3.360E+09	3.367E+09	1.908E+09	1.912E+09	8.634E+08	8.665E+08	4.943E+08	4.966E+08
6	3.005E+09	3.010E+09	1.481E+09	1.484E+09	6.644E+08	6.661E+08	3.772E+08	3.785E+08	1.707E+08	1.716E+08	9.775E+07	9.844E+07
8	9.521E+08	9.541E+08	4.692E+08	4.703E+08	2.105E+08	2.112E+08	1.195E+08	1.200E+08	5.409E+07	5.449E+07	3.097E+07	3.128E+07
10	3.907E+08	3.916E+08	1.925E+08	1.930E+08	8.638E+07	8.671E+07	4.904E+07	4.932E+07	2.220E+07	2.241E+07	1.271E+07	1.287E+07
15	7.766E+07	7.783E+07	3.827E+07	3.839E+07	1.717E+07	1.728E+07	9.749E+06	9.845E+06	4.413E+06	4.445E+06	2.526E+06	2.581E+06
20	2.479E+07	2.484E+07	1.222E+07	1.228E+07	5.482E+06	5.539E+06	3.112E+06	3.161E+06	1.409E+06	1.443E+06	8.065E+05	8.312E+05
30	5.024E+06	5.049E+06	2.476E+06	2.505E+06	1.111E+06	1.135E+06	6.306E+05	6.491E+05	2.854E+05	2.970E+05	1.634E+05	1.713E+05
45	1.051E+06	1.068E+06	5.180E+05	5.320E+05	2.324E+05	2.417E+05	1.319E+05	1.384E+05	5.972E+04	6.332E+04	3.419E+04	3.650E+04
60	3.607E+05	3.717E+05	1.777E+05	1.852E+05	7.975E+04	8.409E+04	4.528E+04	4.809E+04	2.049E+04	2.194E+04	1.173E+04	1.261E+04
75	1.641E+05	1.713E+05	8.089E+04	8.526E+04	3.699E+04	3.859E+04	2.061E+04	2.201E+04	9.326E+03	9.988E+03	5.340E+03	5.714E+03
90	9.017E+04	9.520E+04	4.444E+04	4.724E+04	1.924E+04	2.129E+04	1.132E+04	1.209E+04	5.123E+03	5.451E+03	2.933E+03	3.099E+03
120	4.008E+04	4.327E+04	1.975E+04	2.129E+04	8.861E+03	9.489E+03	5.031E+03	5.338E+03	2.277E+03	2.366E+03	1.304E+03	1.326E+03
150	2.590E+04	2.850E+04	1.276E+04	1.392E+04	5.726E+03	6.140E+03	3.251E+03	3.425E+03	1.471E+03	1.496E+03	8.424E+02	8.777E+02
179	2.255E+04	2.501E+04	1.111E+04	1.218E+04	4.985E+03	5.350E+03	2.830E+03	2.974E+03	1.281E+03	1.292E+03	7.335E+02	7.109E+02
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	8.234E+10	8.248E+10	4.342E+10	4.352E+10	2.229E+10	2.235E+10	1.063E+10	1.066E+10	6.361E+09	6.385E+09	3.143E+09	3.156E+09
2	5.147E+09	5.162E+09	2.714E+09	2.725E+09	1.393E+09	1.400E+09	6.642E+08	6.682E+08	3.976E+08	4.003E+08	1.965E+08	1.980E+08
3	1.017E+09	1.021E+09	5.363E+08	5.393E+08	2.753E+08	2.772E+08	1.312E+08	1.324E+08	7.857E+07	7.936E+07	3.882E+07	3.927E+07
4	3.219E+08	3.237E+08	1.697E+08	1.710E+08	8.714E+07	8.796E+07	4.154E+07	4.203E+07	2.487E+07	2.520E+07	1.229E+07	1.248E+07
6	6.365E+07	6.420E+07	3.356E+07	3.395E+07	1.723E+07	1.748E+07	8.214E+06	8.361E+06	4.917E+06	5.017E+06	2.429E+06	2.486E+06
8	2.017E+07	2.041E+07	1.064E+07	1.080E+07	5.459E+06	5.567E+06	2.603E+06	2.665E+06	1.558E+06	1.600E+06	7.698E+05	7.936E+05
10	8.275E+06	8.405E+06	4.364E+06	4.452E+06	2.240E+06	2.296E+06	1.068E+06	1.100E+06	6.393E+05	6.610E+05	3.159E+05	3.280E+05
15	1.645E+06	1.687E+06	8.676E+05	8.951E+05	4.453E+05	4.673E+05	2.123E+05	2.219E+05	1.271E+05	1.334E+05	6.270E+04	6.626E+04
20	5.252E+05	5.438E+05	2.770E+05	2.889E+05	1.422E+05	1.443E+05	6.777E+04	7.173E+04	4.057E+04	4.314E+04	2.005E+04	2.143E+04
30	1.064E+05	1.122E+05	5.612E+04	5.961E+04	2.881E+04	3.083E+04	1.373E+04	1.480E+04	8.221E+03	8.895E+03	4.062E+03	4.414E+03
45	2.226E+04	2.388E+04	1.174E+04	1.266E+04	6.027E+03	6.586E+03	2.873E+03	3.118E+03	1.720E+03	1.866E+03	8.499E+02	9.203E+02
60	7.640E+03	8.224E+03	4.029E+03	4.339E+03	2.068E+03	2.221E+03	9.860E+02	1.051E+03	5.902E+02	6.243E+02	2.916E+02	3.044E+02
75	3.477E+03	3.711E+03	1.834E+03	1.942E+03	9.412E+02	9.842E+02	4.487E+02	4.593E+02	2.686E+02	2.697E+02	1.327E+02	1.293E+02
90	1.910E+03	2.001E+03	1.007E+03	1.037E+03	5.171E+02	5.187E+02	2.465E+02	2.376E+02	1.476E+02	1.374E+02	7.291E+01	6.431E+01
120	8.489E+02	8.450E+02	4.477E+02	4.274E+02	2.298E+02	2.048E+02	1.096E+02	9.031E+01	6.558E+01	5.008E+01	3.240E+01	2.184E+01
150	4.485E+02	5.212E+02	2.893E+02	2.577E+02	1.485E+02	1.208E+02	7.079E+01	5.018E+01	4.238E+01	2.653E+01	2.094E+01	1.056E+01
179	4.776E+02	4.454E+02	2.519E+02	2.182E+02	1.293E+02	1.009E+02	6.163E+01	4.097E+01	3.690E+01	2.115E+01	1.823E+01	8.014E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.928E+09	1.937E+09	1.327E+09	1.333E+09	7.586E+08	7.655E+08	4.197E+08	4.220E+08	2.124E+08	2.136E+08	1.297E+08	1.305E+08
2	1.205E+08	1.216E+08	8.293E+07	8.367E+07	4.742E+07	4.787E+07	2.624E+07	2.650E+07	1.328E+07	1.341E+07	8.110E+06	8.194E+06
3	2.381E+07	2.412E+07	1.638E+07	1.660E+07	9.370E+06	9.503E+06	5.184E+06	5.261E+06	2.623E+06	2.663E+06	1.602E+06	1.627E+06
4	7.537E+06	7.664E+06	5.186E+06	5.278E+06	2.966E+06	3.021E+06	1.641E+06	1.673E+06	8.303E+05	8.471E+05	5.072E+05	5.176E+05
6	1.490E+06	1.528E+06	1.025E+06	1.052E+06	5.864E+05	6.027E+05	3.244E+05	3.339E+05	1.642E+05	1.691E+05	1.003E+05	1.033E+05
8	4.722E+05	4.879E+05	3.249E+05	3.362E+05	1.858E+05	1.929E+05	1.028E+05	1.067E+05	5.202E+04	5.405E+04	3.177E+04	3.303E+04
10	1.938E+05	2.017E+05	1.333E+05	1.390E+05	7.625E+04	7.967E+04	4.219E+04	4.415E+04	2.135E+04	2.237E+04	1.304E+04	1.367E+04
15	3.852E+04	4.077E+04	2.650E+04	2.811E+04	1.516E+04	1.611E+04	8.386E+03	8.932E+03	4.244E+03	4.526E+03	2.592E+03	2.766E+03
20	1.238E+04	1.319E+04	8.461E+03	9.095E+03	4.839E+03	5.213E+03	2.677E+03	2.890E+03	1.355E+03	1.464E+03	8.275E+02	8.948E+02
30	2.492E+03	2.713E+03	1.714E+03	1.869E+03	9.804E+02	1.070E+03	5.425E+02	5.927E+02	2.745E+02	3.001E+02	1.677E+02	1.833E+02
45	5.214E+02	5.633E+02	3.587E+02	3.868E+02	2.051E+02	2.205E+02	1.135E+02	1.217E+02	5.743E+01	6.143E+01	3.508E+01	3.788E+01
60	1.789E+02	1.848E+02	1.231E+02	1.261E+02	7.039E+01	7.136E+01	3.895E+01	3.912E+01	1.971E+01	1.965E+01	1.204E+01	1.196E+01
75	8.142E+01	7.752E+01	5.602E+01	5.244E+01	3.203E+01	2.931E+01	1.772E+01	1.590E+01	8.969E+00	7.919E+00	5.478E+00	4.801E+00
90	4.473E+01	3.790E+01	3.077E+01	2.530E+01	1.760E+01	1.388E+01	9.737E+00	7.410E+00	4.927E+00	3.643E+00	3.009E+00	2.194E+00
120	1.968E+01	1.216E+01	1.368E+01	7.756E+00	7.821E+00	3.978E+00	4.327E+00	1.992E+00	2.190E+00	9.253E-01	1.338E+00	5.417E-01
150	1.284E+01	5.404E+00	8.838E+00	3.189E+00	5.054E+00	1.458E+00	2.796E+00	6.103E-01	1.415E+00	2.377E-01	8.643E-01	1.250E-01
179	1.118E+01	3.891E+00	7.694E+00	2.172E+00	4.400E+00	1.651E-01	2.435E+00	3.073E-01	1.232E+00	8.782E-02	7.525E-01	3.443E-02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	6.364E+07	6.400E+07	3.790E+07	3.812E+07	2.518E+07	2.532E+07	1.345E+07	1.352E+07	6.836E+06	6.874E+06	3.131E+06	3.149E+06
2	3.978E+06	4.020E+06	2.369E+06	2.394E+06	1.574E+06	1.591E+06	8.406E+05	8.496E+05	4.273E+05	4.318E+05	1.957E+05	1.978E+05
3	7.860E+05	7.984E+05	4.681E+05	4.755E+05	3.110E+05	3.159E+05	1.661E+05	1.687E+05	8.442E+04	8.575E+04	3.867E+04	3.928E+04
4	2.488E+05	2.539E+05	1.482E+05	1.513E+05	9.843E+04	1.005E+05	5.257E+04	5.367E+04	2.672E+04	2.728E+04	1.224E+04	1.250E+04
6	4.919E+04	5.070E+04	2.930E+04	3.020E+04	1.946E+04	2.006E+04	1.039E+04	1.072E+04	5.284E+03	5.447E+03	2.420E+03	2.495E+03
8	1.559E+04	1.621E+04	9.283E+03	9.636E+03	6.167E+03	6.415E+03	3.294E+03	3.426E+03	1.674E+03	1.742E+03	7.668E+02	7.978E+02
10	6.396E+03	6.708E+03	3.809E+03	3.996E+03	2.531E+03	2.655E+03	1.352E+03	1.418E+03	6.870E+02	7.208E+02	3.147E+02	3.302E+02
15	1.272E+03	1.358E+03	7.573E+02	8.088E+02	5.031E+02	5.374E+02	2.687E+02	2.870E+02	1.366E+02	1.459E+02	6.255E+01	6.683E+01
20	4.059E+02	4.392E+02	2.418E+02	2.616E+02	1.606E+02	1.738E+02	8.577E+01	9.283E+01	4.360E+01	4.719E+01	1.997E+01	2.162E+01
30	8.225E+01	8.995E+01	4.899E+01	5.358E+01	3.254E+01	3.559E+01	1.738E+01	1.901E+01	8.834E+00	9.662E+00	4.046E+00	4.426E+00
45	1.721E+01	1.837E+01	1.025E+01	1.093E+01	6.809E+00	7.262E+00	3.636E+00	3.878E+00	1.848E+00	1.971E+00	8.466E-01	9.026E-01
60	5.905E+00	5.848E+00	3.517E+00	3.478E+00	2.336E+00	2.309E+00	1.248E+00	1.232E+00	6.343E-01	6.262E-01	2.905E-01	2.868E-01
75	2.687E+00	2.339E+00	1.601E+00	1.389E+00	1.063E+00	9.217E-01	5.678E-01	4.916E-01	2.886E-01	2.497E-01	1.322E-01	1.143E-01
90	1.476E+00	1.063E+00	8.792E-01	6.301E-01	5.841E-01	4.175E-01	3.119E-01	2.242E-01	1.586E-01	1.129E-01	7.263E-02	5.167E-02
120	6.561E-01	2.557E-01	3.908E-01	1.498E-01	2.596E-01	9.867E-02	1.386E-01	5.228E-02	7.047E-02	2.645E-02	3.228E-02	1.208E-02
150	4.240E-01	5.269E-02	2.525E-01	1.925E-02	1.677E-01	1.872E-02	8.958E-02	6.938E-03	4.554E-02	4.795E-03	2.086E-02	2.169E-03
179	3.691E-01	8.658E-03	2.198E-01	3.134E-03	1.460E-01	1.400E-03	7.809E-02	4.069E-04	3.965E-02	1.079E-04	1.816E-02	2.385E-05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.789E+06	1.799E+06	8.079E+05	8.124E+05	4.581E+05	4.607E+05	2.947E+05	2.963E+05	1.512E+05	1.521E+05	7.440E+04	7.483E+04
2	1.118E+05	1.130E+05	5.050E+04	5.104E+04	2.664E+04	2.894E+04	1.842E+04	1.862E+04	9.451E+03	9.552E+03	4.651E+03	4.701E+03
3	2.209E+04	2.244E+04	9.978E+03	1.014E+04	5.658E+03	5.748E+03	3.639E+03	3.697E+03	1.867E+03	1.897E+03	9.190E+02	9.335E+02
4	6.993E+03	7.140E+03	3.158E+03	3.224E+03	1.791E+03	1.859E+03	1.152E+03	1.176E+03	5.911E+02	6.035E+02	2.909E+02	2.970E+02
6	1.383E+03	1.425E+03	6.245E+02	6.438E+02	3.541E+02	3.651E+02	2.278E+02	2.348E+02	1.169E+02	1.205E+02	5.751E+01	5.929E+01
8	4.381E+02	4.558E+02	1.979E+02	2.059E+02	1.122E+02	1.147E+02	7.217E+01	7.508E+01	3.703E+01	3.853E+01	1.822E+01	1.896E+01
10	1.798E+02	1.886E+02	8.119E+01	8.519E+01	4.604E+01	4.831E+01	2.961E+01	3.107E+01	1.520E+01	1.594E+01	7.478E+00	7.846E+00
15	3.574E+01	3.818E+01	1.614E+01	1.724E+01	9.153E+00	9.779E+00	5.887E+00	6.292E+00	3.021E+00	3.227E+00	1.487E+00	1.588E+00
20	1.141E+01	1.235E+01	5.153E+00	5.578E+00	2.922E+00	3.163E+00	1.879E+00	2.034E+00	9.643E-01	1.044E+00	4.746E-01	5.137E-01
30	2.312E+00	2.529E+00	1.044E+00	1.142E+00	5.921E-01	6.476E-01	3.080E-01	4.165E-01	1.954E-01	2.137E-01	9.616E-02	1.052E-01
45	4.837E-01	5.157E-01	2.184E-01	2.329E-01	1.239E-01	1.351E-01	7.968E-02	8.494E-02	4.088E-02	4.359E-02	2.012E-02	2.145E-02
60	1.660E-01	1.638E-01	7.496E-02	7.399E-02	4.251E-02	4.196E-02	2.734E-02	2.699E-02	1.403E-02	1.385E-02	6.904E-03	6.814E-03
75	5.544E-02	6.531E-02	3.411E-02	2.949E-02	1.935E-02	1.672E-02	1.244E-02	1.076E-02	6.284E-03	5.519E-03	3.142E-03	2.716E-03
90	4.150E-02	2.951E-02	1.874E-02	1.333E-02	1.063E-02	7.566E-03	6.835E-03	4.860E-03	3.507E-03	2.494E-03	1.726E-03	1.227E-03
120	1.844E-02	6.898E-03	8.329E-03	3.113E-03	4.723E-03	1.745E-03	3.038E-03	1.135E-03	1.559E-03	5.824E-04	7.671E-04	2.866E-04
150	1.192E-02	1.234E-03	5.382E-03	5.554E-04	3.052E-03	3.146E-04	1.963E-03	2.022E-04	1.007E-03	1.037E-04	4.957E-04	5.102E-05
179	1.938E-02	8.318E-06	4.686E-03	2.001E-06	2.557E-03	7.794E-07	1.709E-03	3.944E-07	8.769E-04	1.543E-07	4.316E-04	6.323E-08

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-00MEV		1.5E-00MEV		2.0E-00MEV	
1	2.063E+09	2.073E+09	1.420E+09	1.426E+09	8.119E+08	8.141E+08	4.492E+08	4.516E+08	2.273E+08	2.286E+08	1.388E+08	1.396E+08
2	1.290E+08	1.301E+08	8.874E+07	8.956E+07	5.075E+07	5.124E+07	2.808E+07	2.836E+07	1.421E+07	1.436E+07	8.679E+06	8.771E+06
3	2.548E+07	2.582E+07	1.753E+07	1.777E+07	1.003E+07	1.017E+07	5.548E+06	5.632E+06	2.807E+06	2.851E+06	1.715E+06	1.742E+06
4	8.066E+06	8.205E+06	5.550E+06	5.651E+06	3.174E+06	3.235E+06	1.756E+06	1.791E+06	8.886E+05	9.070E+05	5.427E+05	5.542E+05
6	1.595E+06	1.636E+06	1.097E+06	1.127E+06	6.276E+05	6.455E+05	3.472E+05	3.576E+05	1.757E+05	1.811E+05	1.073E+05	1.107E+05
8	5.054E+05	5.226E+05	3.477E+05	3.602E+05	1.988E+05	2.064E+05	1.100E+05	1.143E+05	5.567E+04	5.792E+04	3.400E+04	3.539E+04
10	2.074E+05	2.161E+05	1.427E+05	1.490E+05	8.160E+04	8.538E+04	4.514E+04	4.732E+04	2.285E+04	2.398E+04	1.395E+04	1.465E+04
15	4.122E+04	4.373E+04	2.836E+04	3.015E+04	1.622E+04	1.729E+04	8.974E+03	9.584E+03	4.541E+03	4.857E+03	2.774E+03	2.968E+03
20	1.316E+04	1.416E+04	9.055E+03	9.764E+03	5.178E+03	5.599E+03	2.865E+03	3.104E+03	1.450E+03	1.573E+03	8.855E+02	9.612E+02
30	2.667E+03	2.918E+03	1.835E+03	2.011E+03	1.049E+03	1.152E+03	5.805E+02	6.379E+02	2.938E+02	3.230E+02	1.794E+02	1.973E+02
45	5.579E+02	6.073E+02	3.839E+02	4.171E+02	2.195E+02	2.379E+02	1.215E+02	1.313E+02	6.146E+01	6.630E+01	3.754E+01	4.045E+01
60	1.915E+02	1.996E+02	1.317E+02	1.363E+02	7.533E+01	7.715E+01	4.168E+01	4.231E+01	2.109E+01	2.126E+01	1.288E+01	1.294E+01
75	8.713E+01	8.386E+01	5.995E+01	5.675E+01	3.428E+01	3.174E+01	1.897E+01	1.722E+01	9.598E+00	8.583E+00	5.862E+00	5.204E+00
90	4.786E+01	4.103E+01	3.293E+01	2.741E+01	1.883E+01	1.505E+01	1.042E+01	8.039E+00	5.273E+00	3.954E+00	3.221E+00	2.383E+00
120	2.127E+01	1.317E+01	1.464E+01	8.405E+00	8.370E+00	4.315E+00	4.631E+00	2.163E+00	2.343E+00	1.006E+00	1.431E+00	5.892E-01
150	1.375E+01	5.840E+00	9.458E+00	3.448E+00	5.409E+00	1.545E+00	2.992E+00	6.613E-01	1.514E+00	2.580E-01	9.249E-01	1.359E-01
179	1.197E+01	4.198E+00	8.234E+00	2.343E+00	4.709E+00	9.331E-01	2.605E+00	3.314E-01	1.318E+00	9.471E-02	8.053E-01	3.713E-02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	6.811E+07	6.850E+07	4.056E+07	4.080E+07	2.695E+07	2.710E+07	1.439E+07	1.447E+07	7.315E+06	7.357E+06	3.351E+06	3.370E+06
2	4.257E+06	4.303E+06	2.536E+06	2.563E+06	1.684E+06	1.703E+06	8.996E+05	9.094E+05	4.573E+05	4.623E+05	2.094E+05	2.117E+05
3	8.412E+05	8.547E+05	5.010E+05	5.091E+05	3.328E+05	3.382E+05	1.777E+05	1.806E+05	9.035E+04	9.182E+04	4.138E+04	4.206E+04
4	2.662E+05	2.719E+05	1.586E+05	1.620E+05	1.053E+05	1.076E+05	5.626E+04	5.747E+04	2.860E+04	2.921E+04	1.310E+04	1.338E+04
6	5.265E+04	5.431E+04	3.135E+04	3.235E+04	2.083E+04	2.149E+04	1.112E+04	1.148E+04	5.654E+03	5.835E+03	2.590E+03	2.672E+03
8	1.668E+04	1.737E+04	9.935E+03	1.035E+04	6.600E+03	6.874E+03	3.525E+03	3.672E+03	1.792E+03	1.866E+03	8.206E+02	8.549E+02
10	6.845E+03	7.191E+03	4.077E+03	4.284E+03	2.708E+03	2.846E+03	1.446E+03	1.520E+03	7.352E+02	7.727E+02	3.367E+02	3.539E+02
15	1.361E+03	1.457E+03	8.104E+02	8.680E+02	5.384E+02	5.766E+02	2.875E+02	3.080E+02	1.461E+02	1.566E+02	5.694E+01	7.172E+01
20	4.344E+02	4.718E+02	2.587E+02	2.810E+02	1.719E+02	1.847E+02	9.179E+01	9.973E+01	4.666E+01	5.070E+01	2.137E+01	2.322E+01
30	8.802E+01	9.683E+01	5.242E+01	5.767E+01	3.482E+01	3.831E+01	1.860E+01	2.046E+01	9.454E+00	1.040E+01	4.330E+00	4.765E+00
45	1.842E+01	1.983E+01	1.097E+01	1.180E+01	7.286E+00	7.840E+00	3.891E+00	4.186E+00	1.978E+00	2.128E+00	9.060E-01	9.745E-01
60	6.319E+00	6.328E+00	3.764E+00	3.764E+00	2.500E+00	2.499E+00	1.335E+00	1.334E+00	6.787E-01	6.777E-01	3.109E-01	3.104E-01
75	2.876E+00	2.537E+00	1.713E+00	1.507E+00	1.138E+00	9.995E-01	6.077E-01	5.331E-01	3.089E-01	2.708E-01	1.415E-01	1.240E-01
90	1.580E+00	1.155E+00	9.409E-01	6.843E-01	6.251E-01	4.534E-01	3.338E-01	2.416E-01	1.697E-01	1.226E-01	7.772E-02	5.613E-02
120	7.022E-01	2.782E-01	4.182E-01	1.630E-01	2.778E-01	1.074E-01	1.484E-01	5.692E-02	7.542E-02	2.880E-02	3.454E-02	1.316E-02
150	4.537E-01	5.733E-02	2.702E-01	3.186E-02	1.795E-01	2.039E-02	9.587E-02	1.050E-02	4.873E-02	5.227E-03	2.232E-02	3.355E-03
179	3.950E-01	9.337E-03	2.353E-01	3.380E-03	1.563E-01	1.510E-03	8.347E-02	4.389E-04	4.243E-02	1.164E-04	1.943E-02	2.575E-05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.914E+06	1.925E+06	8.645E+05	8.695E+05	4.903E+05	4.931E+05	3.153E+05	3.172E+05	1.618E+05	1.627E+05	7.962E+04	8.009E+04
2	1.197E+05	1.210E+05	5.404E+04	5.463E+04	3.065E+04	3.098E+04	1.971E+04	1.993E+04	1.011E+04	1.023E+04	4.977E+03	5.032E+03
3	2.364E+04	2.403E+04	1.068E+04	1.085E+04	6.055E+03	6.154E+03	3.895E+03	3.958E+03	1.998E+03	2.031E+03	9.834E+02	9.995E+02
4	7.484E+03	7.645E+03	3.380E+03	3.453E+03	1.917E+03	1.958E+03	1.233E+03	1.259E+03	6.325E+02	6.462E+02	3.113E+02	3.180E+02
6	1.480E+03	1.527E+03	6.683E+02	6.896E+02	3.790E+02	3.911E+02	2.347E+02	2.515E+02	1.251E+02	1.291E+02	6.155E+01	6.351E+01
8	4.689E+02	4.884E+02	2.117E+02	2.206E+02	1.201E+02	1.251E+02	7.723E+01	8.046E+01	3.763E+01	4.128E+01	1.950E+01	2.032E+01
10	1.924E+02	2.022E+02	8.689E+01	9.133E+01	4.928E+01	5.179E+01	3.169E+01	3.331E+01	1.626E+01	1.709E+01	8.003E+00	8.411E+00
15	3.825E+01	4.098E+01	1.727E+01	1.851E+01	9.795E+00	1.049E+01	6.300E+00	6.750E+00	3.233E+00	3.463E+00	1.591E+00	1.704E+00
20	1.221E+01	1.327E+01	5.514E+00	5.992E+00	3.127E+00	3.398E+00	2.011E+00	2.186E+00	1.032E+00	1.121E+00	5.519E-01	5.519E-01
30	2.474E+00	2.722E+00	1.117E+00	1.229E+00	6.336E-01	6.972E-01	4.075E-01	4.484E-01	2.091E-01	2.301E-01	1.029E-01	1.132E-01
45	5.176E-01	5.568E-01	2.338E-01	2.514E-01	1.326E-01	1.426E-01	8.527E-02	9.171E-02	4.375E-02	4.706E-02	2.153E-02	2.316E-02
60	1.776E-01	1.773E-01	8.022E-02	8.007E-02	4.549E-02	4.541E-02	2.926E-02	2.920E-02	1.501E-02	1.499E-02	7.388E-03	7.374E-03
75	0.883E-02	7.083E-02	3.651E-02	3.198E-02	2.070E-02	1.814E-02	1.332E-02	1.166E-02	6.832E-03	5.985E-03	3.362E-03	2.945E-03
90	4.441E-02	3.206E-02	2.005E-02	1.448E-02	1.137E-02	8.208E-03	7.315E-03	5.279E-03	3.753E-03	2.709E-03	1.847E-03	1.333E-03
120	1.974E-02	7.511E-03	8.913E-03	3.390E-03	5.055E-03	1.972E-03	3.251E-03	1.236E-03	1.668E-03	6.341E-04	8.209E-04	3.121E-04
150	1.275E-02	1.345E-03	5.759E-03	6.056E-04	3.266E-03	3.430E-04	2.101E-03	2.205E-04	1.078E-03	1.131E-04	5.304E-04	5.564E-05
179	1.110E-02	8.985E-06	5.014E-03	2.165E-06	2.844E-03	8.444E-07	1.829E-03	4.279E-07	9.385E-04	1.676E-07	4.618E-04	6.883E-08

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	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	2.151E+14	2.153E+14	9.571E+13	9.577E+13	5.389E+13	5.392E+13	2.400E+13	2.401E+13	1.352E+13	1.353E+13	8.673E+12	8.679E+12
2	1.345E+13	1.346E+13	5.983E+12	5.987E+12	3.369E+12	3.371E+12	1.500E+12	1.501E+12	8.454E+11	8.461E+11	5.421E+11	5.426E+11
3	2.657E+12	2.659E+12	1.182E+12	1.183E+12	6.656E+11	6.640E+11	2.964E+11	2.966E+11	1.670E+11	1.672E+11	1.071E+11	1.072E+11
4	8.410E+11	8.416E+11	3.742E+11	3.744E+11	2.107E+11	2.108E+11	9.381E+10	9.390E+10	5.287E+10	5.292E+10	3.390E+10	3.394E+10
6	1.663E+11	1.664E+11	7.398E+10	7.404E+10	4.166E+10	4.169E+10	1.855E+10	1.857E+10	1.045E+10	1.047E+10	6.704E+09	6.713E+09
8	5.269E+10	5.273E+10	2.344E+10	2.346E+10	1.320E+10	1.321E+10	5.878E+09	5.884E+09	3.313E+09	3.317E+09	2.124E+09	2.128E+09
10	2.162E+10	2.164E+10	9.619E+09	9.630E+09	5.416E+09	5.422E+09	2.412E+09	2.415E+09	1.359E+09	1.362E+09	8.716E+08	8.737E+08
15	4.298E+09	4.303E+09	1.912E+09	1.914E+09	1.077E+09	1.078E+09	4.795E+08	4.805E+08	2.702E+08	2.710E+08	1.733E+08	1.737E+08
20	1.372E+09	1.374E+09	6.104E+08	6.110E+08	3.437E+08	3.444E+08	1.531E+08	1.535E+08	8.626E+07	8.649E+07	5.531E+07	5.543E+07
30	2.780E+08	2.783E+08	1.237E+08	1.241E+08	6.965E+07	6.967E+07	3.101E+07	3.106E+07	1.748E+07	1.749E+07	1.121E+07	1.122E+07
45	5.817E+07	5.838E+07	2.588E+07	2.592E+07	1.457E+07	1.456E+07	6.489E+06	6.481E+06	3.657E+06	3.663E+06	2.345E+06	2.358E+06
60	1.996E+07	1.995E+07	8.881E+06	8.843E+06	5.000E+06	4.983E+06	2.227E+06	2.233E+06	1.255E+06	1.268E+06	8.047E+05	8.189E+05
75	9.084E+06	9.009E+06	4.041E+06	4.021E+06	2.276E+06	2.278E+06	1.013E+06	1.027E+06	5.711E+05	5.848E+05	3.662E+05	3.781E+05
90	4.991E+06	4.954E+06	2.220E+06	2.230E+06	1.250E+06	1.268E+06	5.567E+05	5.733E+05	3.137E+05	3.265E+05	2.012E+05	2.110E+05
120	2.218E+06	2.305E+06	9.868E+05	1.041E+06	5.556E+05	5.913E+05	2.474E+05	2.663E+05	1.394E+05	1.510E+05	8.941E+04	9.720E+04
150	1.433E+06	1.585E+06	6.376E+05	7.103E+05	3.590E+05	4.015E+05	1.599E+05	1.794E+05	9.010E+04	1.012E+05	5.778E+04	6.485E+04
179	1.248E+06	1.416E+06	5.551E+05	6.324E+05	3.126E+05	3.567E+05	1.392E+05	1.589E+05	7.845E+04	8.943E+04	5.030E+04	5.720E+04
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	4.442E+12	4.445E+12	2.189E+12	2.191E+12	9.821E+11	9.831E+11	5.576E+11	5.582E+11	2.524E+11	2.527E+11	1.445E+11	1.447E+11
2	2.777E+11	2.779E+11	1.368E+11	1.370E+11	6.139E+10	6.148E+10	3.486E+10	3.491E+10	1.578E+10	1.581E+10	9.033E+09	9.055E+09
3	5.486E+10	5.492E+10	2.704E+10	2.707E+10	1.213E+10	1.215E+10	6.887E+09	6.901E+09	3.117E+09	3.126E+09	1.785E+09	1.791E+09
4	1.736E+10	1.739E+10	8.557E+09	8.572E+09	3.839E+09	3.847E+09	2.180E+09	2.185E+09	9.866E+08	9.900E+08	5.649E+08	5.674E+08
6	3.433E+09	3.440E+09	1.692E+09	1.696E+09	7.592E+08	7.611E+08	4.310E+08	4.324E+08	1.951E+08	1.961E+08	1.117E+08	1.125E+08
8	1.088E+09	1.090E+09	5.361E+08	5.375E+08	2.405E+08	2.413E+08	1.366E+08	1.371E+08	6.181E+07	6.224E+07	3.539E+07	3.573E+07
10	4.464E+08	4.476E+08	2.200E+08	2.206E+08	9.871E+07	9.905E+07	5.604E+07	5.633E+07	2.537E+07	2.559E+07	1.452E+07	1.471E+07
15	8.874E+07	8.895E+07	4.373E+07	4.386E+07	1.962E+07	1.973E+07	1.114E+07	1.124E+07	5.042E+06	5.122E+06	2.887E+06	2.948E+06
20	2.833E+07	2.838E+07	1.396E+07	1.401E+07	6.262E+06	6.371E+06	3.556E+06	3.608E+06	1.610E+06	1.648E+06	9.216E+05	9.502E+05
25	5.740E+06	5.761E+06	2.829E+06	2.857E+06	1.269E+06	1.295E+06	7.206E+05	7.414E+05	3.262E+05	3.397E+05	1.867E+05	1.962E+05
45	1.201E+06	1.218E+06	5.919E+05	6.073E+05	2.656E+05	2.763E+05	1.508E+05	1.584E+05	6.824E+04	7.265E+04	3.907E+04	4.194E+04
60	4.121E+05	4.244E+05	2.031E+05	2.118E+05	9.113E+04	9.648E+04	5.174E+04	5.521E+04	2.342E+04	2.524E+04	1.341E+04	1.453E+04
75	1.876E+05	1.960E+05	9.243E+04	9.775E+04	4.147E+04	4.435E+04	2.355E+04	2.533E+04	1.066E+04	1.152E+04	6.102E+03	6.601E+03
90	1.030E+05	1.092E+05	5.078E+04	5.431E+04	2.278E+04	2.463E+04	1.293E+04	1.395E+04	5.854E+03	6.302E+03	3.352E+03	3.588E+03
120	4.579E+04	4.996E+04	2.257E+04	2.462E+04	1.013E+04	1.099E+04	5.749E+03	6.187E+03	2.602E+03	2.744E+03	1.490E+03	1.540E+03
150	2.959E+04	3.309E+04	1.458E+04	1.618E+04	6.543E+03	7.140E+03	3.715E+03	3.984E+03	1.681E+03	1.741E+03	9.626E+02	9.632E+02
179	2.576E+04	2.911E+04	1.270E+04	1.418E+04	5.696E+03	6.232E+03	3.234E+03	3.465E+03	1.464E+03	1.505E+03	8.381E+02	8.280E+02
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	9.409E+10	9.425E+10	4.962E+10	4.973E+10	2.547E+10	2.554E+10	1.214E+10	1.218E+10	7.269E+09	7.296E+09	3.591E+09	3.607E+09
2	5.881E+09	5.899E+09	3.102E+09	3.113E+09	1.592E+09	1.600E+09	7.590E+08	7.636E+08	4.544E+08	4.576E+08	2.245E+08	2.263E+08
3	1.162E+09	1.167E+09	6.126E+08	6.162E+08	3.146E+08	3.168E+08	1.500E+08	1.513E+08	8.978E+07	9.071E+07	4.436E+07	4.490E+07
4	3.678E+08	3.699E+08	1.940E+08	1.954E+08	9.957E+07	1.005E+08	4.747E+07	4.805E+07	2.842E+07	2.881E+07	1.404E+07	1.427E+07
6	7.273E+07	7.335E+07	3.835E+07	3.879E+07	1.969E+07	1.998E+07	9.386E+06	9.560E+06	5.619E+06	5.738E+06	2.776E+06	2.844E+06
8	2.304E+07	2.332E+07	1.215E+07	1.235E+07	6.238E+06	6.364E+06	2.974E+06	3.049E+06	1.780E+06	1.831E+06	8.796E+05	9.083E+05
10	9.458E+06	9.604E+06	4.987E+06	5.089E+06	2.560E+06	2.656E+06	1.220E+06	1.259E+06	7.306E+05	7.566E+05	3.610E+05	3.756E+05
15	1.888E+06	1.928E+06	9.913E+05	1.024E+06	5.087E+05	5.293E+05	2.426E+05	2.542E+05	1.452E+05	1.529E+05	7.175E+04	7.601E+04
20	6.001E+05	6.221E+05	3.165E+05	3.307E+05	1.624E+05	1.712E+05	7.744E+04	8.230E+04	4.636E+04	4.953E+04	2.291E+04	2.463E+04
30	1.216E+05	1.286E+05	6.413E+04	6.842E+04	3.292E+04	3.572E+04	1.569E+04	1.703E+04	9.394E+03	1.025E+04	4.641E+03	5.090E+03
45	2.544E+04	2.746E+04	1.342E+04	1.459E+04	6.887E+03	7.530E+03	3.283E+03	3.604E+03	1.966E+03	2.159E+03	9.711E+02	1.066E+03
60	8.730E+03	9.489E+03	4.604E+03	5.014E+03	2.363E+03	2.571E+03	1.127E+03	1.219E+03	6.745E+02	7.250E+02	3.332E+02	3.540E+02
75	3.978E+03	4.292E+03	2.095E+03	2.250E+03	1.076E+03	1.142E+03	5.127E+02	5.339E+02	3.069E+02	3.140E+02	1.517E+02	1.508E+02
90	2.183E+03	2.319E+03	1.151E+03	1.204E+03	5.908E+02	6.028E+02	2.817E+02	2.767E+02	1.686E+02	1.603E+02	8.331E+01	7.513E+01
120	9.708E+02	9.818E+02	5.116E+02	4.969E+02	2.620E+02	2.407E+02	1.252E+02	1.052E+02	7.494E+01	5.842E+01	3.703E+01	2.552E+01
150	6.268E+02	6.065E+02	3.306E+02	2.999E+02	1.697E+02	1.406E+02	8.089E+01	5.840E+01	4.842E+01	3.088E+01	2.393E+01	1.230E+01
179	5.457E+02	5.187E+02	2.878E+02	2.540E+02	1.477E+02	1.174E+02	7.043E+01	4.763E+01	4.216E+01	2.459E+01	2.083E+01	9.311E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	2.203E+09	2.213E+09	1.516E+09	1.523E+09	8.669E+08	8.714E+08	4.796E+08	4.823E+08	2.427E+08	2.441E+08	1.482E+08	1.491E+08
2	1.377E+08	1.389E+08	9.476E+07	9.564E+07	5.419E+07	5.473E+07	2.998E+07	3.029E+07	1.517E+07	1.534E+07	9.267E+06	9.368E+06
3	2.721E+07	2.757E+07	1.872E+07	1.898E+07	1.071E+07	1.087E+07	5.924E+06	6.016E+06	2.998E+06	3.046E+06	1.831E+06	1.861E+06
4	8.613E+06	8.765E+06	5.926E+06	6.036E+06	3.389E+06	3.456E+06	1.875E+06	1.914E+06	9.488E+05	9.690E+05	5.795E+05	5.921E+05
6	1.703E+06	1.748E+06	1.172E+06	1.204E+06	6.701E+05	6.868E+05	3.707E+05	3.821E+05	1.876E+05	1.936E+05	1.146E+05	1.183E+05
8	5.396E+05	5.586E+05	3.713E+05	3.850E+05	2.123E+05	2.206E+05	1.175E+05	1.222E+05	5.945E+04	6.192E+04	3.631E+04	3.784E+04
10	2.214E+05	2.311E+05	1.524E+05	1.593E+05	8.713E+04	9.130E+04	4.820E+04	5.061E+04	2.439E+04	2.564E+04	1.490E+04	1.547E+04
15	4.402E+04	4.679E+04	3.229E+04	3.227E+04	1.732E+04	1.860E+04	9.583E+03	1.026E+04	4.849E+03	5.200E+03	2.962E+03	3.178E+03
20	1.405E+04	1.517E+04	9.668E+03	1.046E+04	5.529E+03	5.999E+03	3.059E+03	3.326E+03	1.548E+03	1.686E+03	9.455E+02	1.030E+03
30	2.847E+03	3.131E+03	1.959E+03	2.158E+03	1.120E+03	1.236E+03	6.199E+02	6.849E+02	3.137E+02	3.469E+02	1.916E+02	2.120E+02
45	5.958E+02	6.532E+02	4.099E+02	4.488E+02	2.344E+02	2.561E+02	1.297E+02	1.414E+02	6.563E+01	7.141E+01	4.009E+01	4.357E+01
60	2.044E+02	2.152E+02	1.407E+02	1.470E+02	8.044E+01	8.353E+01	4.450E+01	4.566E+01	2.252E+01	2.295E+01	1.376E+01	1.397E+01
75	9.303E+01	9.053E+01	6.401E+01	6.129E+01	3.661E+01	3.459E+01	2.025E+01	1.862E+01	1.025E+01	9.284E+00	6.260E+00	5.630E+00
90	5.111E+01	4.434E+01	3.516E+01	2.963E+01	2.011E+01	1.658E+01	1.113E+01	8.704E+00	5.630E+00	4.283E+00	3.439E+00	2.582E+00
120	2.271E+01	1.223E+01	1.563E+01	9.091E+00	8.937E+00	4.672E+00	4.945E+00	2.345E+00	2.502E+00	1.091E+00	1.528E+00	6.397E+00
150	1.468E+01	6.399E+00	1.010E+01	3.721E+00	5.775E+00	1.669E+00	3.195E+00	7.152E+00	1.617E+00	2.795E+00	9.876E+01	1.474E+01
179	1.278E+01	4.520E+00	8.792E+00	2.523E+00	5.028E+00	1.004E+00	2.782E+00	3.568E+01	1.408E+00	1.019E+01	8.598E+01	3.997E+02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	7.272E+07	7.315E+07	4.331E+07	4.357E+07	2.877E+07	2.894E+07	1.537E+07	1.546E+07	7.811E+06	7.857E+06	3.578E+06	3.599E+06
2	4.544E+06	4.596E+06	2.707E+06	2.738E+06	1.799E+06	1.819E+06	9.605E+05	9.713E+05	4.883E+05	4.937E+05	2.236E+05	2.261E+05
3	8.984E+05	9.130E+05	5.349E+05	5.438E+05	3.554E+05	3.613E+05	1.898E+05	1.930E+05	9.647E+04	9.808E+04	4.419E+04	4.493E+04
4	2.843E+05	2.905E+05	1.693E+05	1.730E+05	1.125E+05	1.160E+05	6.007E+04	6.140E+04	3.053E+04	3.121E+04	1.399E+04	1.430E+04
6	5.621E+04	5.804E+04	3.348E+04	3.457E+04	2.224E+04	2.297E+04	1.188E+04	1.227E+04	6.038E+03	6.236E+03	2.765E+03	2.856E+03
8	1.781E+04	1.857E+04	1.061E+04	1.106E+04	7.047E+03	7.350E+03	3.764E+03	3.926E+03	1.913E+03	1.996E+03	8.762E+02	9.140E+02
10	7.309E+03	7.691E+03	4.353E+03	4.582E+03	2.892E+03	3.044E+03	1.544E+03	1.626E+03	7.850E+02	8.265E+02	3.596E+02	3.786E+02
15	1.453E+03	1.560E+03	8.653E+02	9.293E+02	5.748E+02	6.174E+02	3.070E+02	3.298E+02	1.561E+02	1.676E+02	7.148E+01	7.679E+01
20	4.638E+02	5.057E+02	2.762E+02	3.012E+02	1.835E+02	2.001E+02	9.801E+01	1.069E+02	4.982E+01	5.434E+01	2.282E+01	2.489E+01
30	9.398E+01	1.040E+02	5.597E+01	6.195E+01	3.718E+01	4.116E+01	1.986E+01	2.196E+01	1.009E+01	1.117E+01	4.624E+00	5.118E+00
45	1.966E+01	2.136E+01	1.171E+01	1.272E+01	7.780E+00	8.445E+00	4.155E+00	4.510E+00	2.112E+00	2.292E+00	9.674E+00	1.050E+00
60	6.748E+00	6.833E+00	4.019E+00	4.065E+00	2.670E+00	2.669E+00	1.424E+00	1.440E+00	7.248E+00	7.319E+00	3.320E+01	3.352E+01
75	3.071E+00	2.745E+00	1.829E+00	1.630E+00	1.215E+00	1.082E+00	6.489E+00	5.769E+00	3.298E+01	2.930E+01	1.511E+01	1.342E+01
90	1.687E+00	1.252E+00	1.005E+00	7.718E+01	6.674E+01	4.915E+01	3.564E+01	2.619E+01	1.812E+01	1.329E+01	8.299E+02	6.084E+02
120	7.497E+01	3.022E+01	4.465E+01	1.771E+01	2.966E+01	1.167E+01	1.584E+01	6.185E+02	8.053E+02	3.130E+02	3.688E+02	1.430E+02
150	4.845E+01	6.227E+02	2.885E+01	3.462E+02	1.917E+01	2.217E+02	1.024E+01	1.143E+02	5.203E+02	5.687E+03	2.383E+02	2.574E+03
179	4.218E+01	1.005E+02	2.512E+01	3.638E+03	1.669E+01	1.656E+03	8.913E+02	4.725E+04	4.530E+02	1.254E+04	2.075E+02	2.774E+05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	2.044E+06	2.056E+06	9.231E+05	9.286E+05	5.235E+05	5.266E+05	3.367E+05	3.387E+05	1.728E+05	1.738E+05	8.502E+04	8.552E+04
2	1.278E+05	1.292E+05	5.770E+04	5.835E+04	3.272E+04	3.309E+04	2.105E+04	2.128E+04	1.080E+04	1.092E+04	5.315E+03	5.374E+03
3	2.525E+04	2.567E+04	1.140E+04	1.159E+04	6.466E+03	6.574E+03	4.159E+03	4.228E+03	2.134E+03	2.170E+03	1.050E+03	1.068E+03
4	7.991E+03	8.168E+03	3.609E+03	3.689E+03	2.047E+03	2.092E+03	1.316E+03	1.345E+03	6.754E+02	6.904E+02	3.324E+02	3.397E+02
6	1.580E+03	1.632E+03	7.136E+02	7.370E+02	4.047E+02	4.180E+02	2.603E+02	2.688E+02	1.335E+02	1.379E+02	6.572E+01	6.788E+01
8	5.006E+02	5.222E+02	2.261E+02	2.358E+02	1.282E+02	1.338E+02	8.247E+01	8.602E+01	4.231E+01	4.414E+01	2.082E+01	2.172E+01
10	2.054E+02	2.163E+02	9.278E+01	9.768E+01	5.261E+01	5.510E+01	3.384E+01	3.563E+01	1.736E+01	1.828E+01	8.545E+00	8.997E+00
15	4.084E+01	4.387E+01	1.844E+01	1.981E+01	1.046E+01	1.124E+01	6.727E+00	7.227E+00	3.452E+00	3.708E+00	1.699E+00	1.825E+00
20	1.304E+01	1.422E+01	5.888E+00	6.423E+00	3.339E+00	3.642E+00	2.148E+00	2.343E+00	1.102E+00	1.202E+00	5.423E+01	5.916E+01
30	2.642E+00	2.924E+00	1.193E+00	1.321E+00	6.766E+00	7.489E+00	4.351E+01	4.817E+01	2.233E+01	2.472E+01	1.099E+01	1.216E+01
45	5.527E-01	5.998E-01	2.496E-01	2.709E-01	1.416E-01	1.546E-01	9.105E-02	9.880E-02	4.672E-02	5.069E-02	2.299E-02	2.495E-02
60	1.897E-01	1.915E-01	8.565E-02	8.647E-02	4.858E-02	4.904E-02	3.124E-02	3.154E-02	1.603E-02	1.618E-02	7.889E-03	7.964E-03
75	8.631E-02	7.665E-02	3.898E-02	3.461E-02	2.211E-02	1.963E-02	1.422E-02	1.262E-02	7.295E-03	6.477E-03	3.590E-03	3.187E-03
90	4.742E-02	3.475E-02	2.141E-02	1.569E-02	1.214E-02	8.898E-03	7.810E-03	5.723E-03	4.008E-03	2.936E-03	1.972E-03	1.445E-03
120	2.107E-02	8.163E-03	9.517E-03	3.684E-03	5.397E-03	2.089E-03	3.471E-03	1.343E-03	1.791E-03	6.892E-04	7.655E-04	3.391E-04
150	1.362E-02	1.464E-03	6.150E-03	6.591E-04	3.488E-03	3.743E-04	2.243E-03	2.400E-04	1.151E-03	1.231E-04	5.664E-04	6.055E-05
179	1.186E-02	9.688E-06	5.354E-03	2.337E-06	3.035E-03	9.131E-07	1.953E-03	4.633E-07	1.002E-03	1.818E-07	4.931E-04	7.477E-08

	RUTH		MOTT		RUTH		MOTT		RUTH		MOTT		RUTH		MOTT		RUTH		MOTT		RUTH		MOTT		RUTH		MOTT		RUTH		MOTT	
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV																					
1	2.292E+14	2.294E+14	1.020E+14	1.020E+14	5.742E+13	5.746E+13	2.557E+13	2.559E+13	1.441E+13	1.442E+13	9.241E+12	9.248E+12																				
2	1.433E+13	1.434E+13	6.375E+12	6.379E+12	3.589E+12	3.592E+12	1.598E+12	1.600E+12	9.009E+11	9.016E+11	5.777E+11	5.781E+11																				
3	2.831E+12	2.833E+12	1.260E+12	1.260E+12	7.092E+11	7.097E+11	3.158E+11	3.161E+11	1.780E+11	1.782E+11	1.141E+11	1.142E+11																				
4	8.962E+11	8.968E+11	3.987E+11	3.990E+11	2.245E+11	2.246E+11	9.996E+10	1.001E+11	5.634E+10	5.639E+10	3.613E+10	3.616E+10																				
6	1.772E+11	1.773E+11	7.883E+10	7.889E+10	4.439E+10	4.443E+10	1.977E+10	1.979E+10	1.114E+10	1.115E+10	7.143E+09	7.152E+09																				
8	5.615E+10	5.619E+10	2.498E+10	2.500E+10	1.406E+10	1.408E+10	6.263E+09	6.269E+09	3.530E+09	3.534E+09	2.263E+09	2.267E+09																				
10	2.304E+10	2.306E+10	1.025E+10	1.026E+10	5.771E+09	5.778E+09	2.570E+09	2.573E+09	1.448E+09	1.451E+09	9.288E+08	9.309E+08																				
15	4.580E+09	4.585E+09	2.038E+09	2.040E+09	1.147E+09	1.148E+09	5.109E+08	5.120E+08	2.879E+08	2.888E+08	1.846E+08	1.852E+08																				
20	1.462E+09	1.464E+09	6.505E+08	6.510E+08	3.662E+08	3.669E+08	1.631E+08	1.636E+08	9.192E+07	9.219E+07	5.894E+07	5.908E+07																				
30	2.963E+08	2.964E+08	1.318E+08	1.322E+08	7.421E+07	7.447E+07	3.305E+07	3.311E+07	1.862E+07	1.864E+07	1.194E+07	1.195E+07																				
45	6.199E+07	6.222E+07	2.758E+07	2.763E+07	1.553E+07	1.562E+07	6.914E+06	6.902E+06	3.897E+06	3.900E+06	2.499E+06	2.510E+06																				
60	2.127E+07	2.127E+07	9.463E+06	9.423E+06	5.328E+06	5.306E+06	2.373E+06	2.376E+06	1.337E+06	1.349E+06	8.575E+05	8.715E+05																				
75	9.680E+06	9.596E+06	4.306E+06	4.279E+06	2.425E+06	2.423E+06	1.080E+06	1.093E+06	6.085E+05	6.224E+05	3.902E+05	4.026E+05																				
90	5.318E+06	5.268E+06	2.366E+06	2.371E+06	1.332E+06	1.349E+06	5.932E+05	6.104E+05	3.343E+05	3.480E+05	2.144E+05	2.250E+05																				
120	2.363E+06	2.456E+06	1.051E+06	1.110E+06	5.920E+05	6.312E+05	2.636E+05	2.846E+05	1.486E+05	1.615E+05	9.527E+04	1.040E+05																				
150	1.527E+06	1.698E+06	6.794E+05	7.614E+05	3.825E+05	4.306E+05	1.703E+05	1.926E+05	9.601E+04	1.087E+05	6.156E+04	6.965E+04																				
179	1.330E+06	1.520E+06	5.915E+05	6.791E+05	3.331E+05	3.832E+05	1.483E+05	1.708E+05	8.359E+04	9.615E+04	5.360E+04	6.152E+04																				
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV																					
1	4.733E+12	4.737E+12	2.333E+12	2.334E+12	1.047E+12	1.048E+12	5.942E+11	5.948E+11	2.689E+11	2.693E+11	1.540E+11	1.542E+11																				
2	2.959E+11	2.961E+11	1.458E+11	1.460E+11	6.542E+10	6.551E+10	3.714E+10	3.720E+10	1.681E+10	1.685E+10	9.625E+09	9.649E+09																				
3	5.846E+10	5.852E+10	2.881E+10	2.885E+10	1.293E+10	1.295E+10	7.338E+09	7.354E+09	3.321E+09	3.331E+09	1.902E+09	1.908E+09																				
4	1.850E+10	1.853E+10	9.118E+09	9.134E+09	4.091E+09	4.100E+09	2.323E+09	2.329E+09	1.051E+09	1.055E+09	6.019E+08	6.046E+08																				
6	3.659E+09	3.665E+09	1.803E+09	1.807E+09	8.089E+08	8.111E+08	4.593E+08	4.608E+08	2.079E+08	2.089E+08	1.190E+08	1.198E+08																				
8	1.159E+09	1.162E+09	5.713E+08	5.728E+08	2.563E+08	2.571E+08	1.455E+08	1.461E+08	6.587E+07	6.630E+07	3.771E+07	3.805E+07																				
10	4.757E+08	4.770E+08	2.344E+08	2.351E+08	1.052E+08	1.055E+08	5.972E+07	6.001E+07	2.703E+07	2.726E+07	1.547E+07	1.567E+07																				
15	9.456E+07	9.480E+07	4.660E+07	4.673E+07	2.091E+07	2.102E+07	1.187E+07	1.197E+07	5.373E+06	5.456E+06	3.076E+06	3.141E+06																				
20	3.019E+07	3.024E+07	1.488E+07	1.493E+07	6.675E+06	6.732E+06	3.790E+06	3.843E+06	1.715E+06	1.756E+06	9.820E+05	1.013E+06																				
30	6.117E+06	6.135E+06	3.014E+06	3.042E+06	1.352E+06	1.379E+06	7.679E+05	7.897E+05	3.475E+05	3.621E+05	1.990E+05	2.092E+05																				
45	1.280E+06	1.297E+06	6.307E+05	6.466E+05	2.830E+05	2.944E+05	1.607E+05	1.689E+05	7.272E+04	7.755E+04	4.163E+04	4.480E+04																				

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG.	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	2.348E+09	2.359E+09	1.615E+09	1.623E+09	9.237E+08	9.286E+08	5.111E+08	5.139E+08	2.586E+08	2.601E+08	1.580E+08	1.589E+08
2	1.468E+08	1.481E+08	1.010E+08	1.019E+08	5.774E+07	5.833E+07	3.195E+07	3.229E+07	1.617E+07	1.636E+07	9.874E+06	9.985E+06
3	2.900E+07	2.939E+07	1.995E+07	2.023E+07	1.141E+07	1.158E+07	6.312E+06	6.413E+06	3.194E+06	3.247E+06	1.951E+06	1.984E+06
4	9.177E+06	9.343E+06	6.315E+06	6.434E+06	3.611E+06	3.684E+06	1.998E+06	2.040E+06	1.011E+06	1.033E+06	6.175E+05	6.312E+05
6	1.815E+06	1.864E+06	1.249E+06	1.284E+06	7.140E+05	7.356E+05	3.950E+05	4.075E+05	1.999E+05	2.064E+05	1.221E+05	1.261E+05
8	5.750E+05	5.958E+05	3.956E+05	4.106E+05	2.262E+05	2.353E+05	1.252E+05	1.304E+05	6.334E+04	6.606E+04	3.869E+04	4.037E+04
10	2.359E+05	2.465E+05	1.623E+05	1.700E+05	9.284E+04	9.743E+04	5.136E+04	5.401E+04	2.599E+04	2.737E+04	1.588E+04	1.673E+04
15	4.690E+04	4.996E+04	3.227E+04	3.446E+04	1.866E+04	1.977E+04	1.021E+04	1.096E+04	5.167E+03	5.555E+03	3.156E+03	3.396E+03
20	1.497E+04	1.621E+04	1.030E+04	1.118E+04	5.892E+03	6.414E+03	3.260E+03	3.557E+03	1.650E+03	1.803E+03	1.008E+03	1.102E+03
30	3.034E+03	3.353E+03	2.088E+03	2.311E+03	1.194E+03	1.355E+03	6.605E+02	7.339E+02	3.342E+02	3.718E+02	2.041E+02	2.272E+02
45	6.348E+02	7.013E+02	4.369E+02	4.820E+02	2.498E+02	2.751E+02	1.382E+02	1.519E+02	6.993E+01	7.675E+01	4.271E+01	4.684E+01
60	2.178E+02	2.315E+02	1.499E+02	1.582E+02	8.571E+01	8.961E+01	4.742E+01	4.918E+01	2.400E+01	2.472E+01	1.466E+01	1.555E+01
75	9.913E+01	9.754E+01	6.821E+01	6.607E+01	3.901E+01	3.699E+01	2.158E+01	2.010E+01	1.092E+01	1.002E+01	6.670E+00	6.079E+00
90	5.446E+01	4.782E+01	3.747E+01	3.197E+01	2.143E+01	1.758E+01	1.186E+01	9.406E+00	5.999E+00	4.831E+00	3.664E+00	2.792E+00
120	2.420E+01	1.536E+01	1.665E+01	9.815E+00	9.523E+00	5.049E+00	5.269E+00	2.537E+00	2.666E+00	1.182E+00	1.629E+00	6.931E+01
150	1.564E+01	6.784E+00	1.076E+01	4.008E+00	6.154E+00	1.800E+00	3.405E+00	7.712E+01	1.723E+00	3.023E+01	1.052E+00	1.595E+01
179	1.362E+01	4.858E+00	9.369E+00	2.711E+00	5.358E+00	1.040E+00	2.964E+00	3.834E+01	1.500E+00	1.095E+01	9.162E+01	4.294E+02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	7.749E+07	7.795E+07	4.615E+07	4.643E+07	3.066E+07	3.084E+07	1.637E+07	1.647E+07	8.323E+06	8.373E+06	3.812E+06	3.835E+06
2	4.847E+06	4.899E+06	2.885E+06	2.918E+06	1.916E+06	1.938E+06	1.024E+06	1.035E+06	5.203E+05	5.262E+05	2.383E+05	2.410E+05
3	9.571E+05	9.732E+05	5.700E+05	5.797E+05	3.787E+05	3.861E+05	2.022E+05	2.057E+05	1.028E+05	1.046E+05	4.708E+04	4.789E+04
4	3.029E+05	3.097E+05	1.804E+05	1.845E+05	1.199E+05	1.236E+05	6.401E+04	6.546E+04	3.254E+04	3.327E+04	1.490E+04	1.524E+04
6	5.990E+04	6.190E+04	3.567E+04	3.687E+04	2.370E+04	2.450E+04	1.266E+04	1.308E+04	6.433E+03	6.651E+03	2.947E+03	3.046E+03
8	1.898E+04	1.981E+04	1.130E+04	1.180E+04	7.509E+03	7.841E+03	4.010E+03	4.188E+03	2.038E+03	2.129E+03	9.337E+02	9.752E+02
10	7.788E+03	8.209E+03	4.638E+03	4.890E+03	3.081E+03	3.249E+03	1.646E+03	1.735E+03	8.365E+02	8.821E+02	3.831E+02	4.041E+02
15	1.548E+03	1.667E+03	9.221E+02	9.929E+02	6.125E+02	6.597E+02	3.271E+02	3.524E+02	1.663E+02	1.791E+02	7.616E+01	8.205E+01
20	4.942E+02	5.409E+02	2.944E+02	3.222E+02	1.955E+02	2.141E+02	1.044E+02	1.143E+02	5.308E+01	5.813E+01	2.431E+01	2.663E+01
30	1.001E+02	1.115E+02	5.964E+01	6.640E+01	3.962E+01	4.412E+01	2.116E+01	2.356E+01	1.076E+01	1.198E+01	4.927E+00	5.486E+00
45	2.095E+01	2.296E+01	1.248E+01	1.367E+01	8.290E+00	9.079E+00	4.427E+00	4.848E+00	2.251E+00	2.464E+00	1.031E+00	1.129E+00
60	7.190E+00	7.364E+00	4.282E+00	4.381E+00	2.845E+00	2.908E+00	1.519E+00	1.552E+00	7.723E+01	7.889E+01	3.537E+01	3.613E+01
75	3.272E+00	2.564E+00	1.949E+00	1.761E+00	1.295E+00	1.168E+00	6.914E+01	6.231E+01	3.514E+01	3.165E+01	1.610E+01	1.449E+01
90	1.798E+00	1.354E+00	1.071E+00	8.025E+01	7.112E+01	5.318E+01	3.798E+01	2.834E+01	1.931E+01	1.438E+01	8.843E+02	6.583E+02
120	7.989E+01	3.276E+01	4.758E+01	1.921E+01	3.161E+01	1.266E+01	1.688E+01	6.709E+02	8.581E+02	3.395E+02	3.930E+02	1.551E+02
150	5.162E+01	6.751E+02	3.075E+01	3.756E+02	2.042E+01	2.406E+02	1.091E+01	1.241E+02	5.545E+02	6.177E+03	2.540E+02	2.796E+03
179	4.495E+01	1.000E+02	2.677E+01	3.909E+03	1.778E+01	1.747E+03	9.497E+02	5.078E+04	4.827E+02	1.348E+04	2.211E+02	2.984E+05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	2.178E+06	2.191E+06	9.837E+05	9.896E+05	5.578E+05	5.612E+05	3.588E+05	3.609E+05	1.841E+05	1.852E+05	9.060E+04	9.114E+04
2	1.362E+05	1.377E+05	6.149E+04	6.219E+04	3.487E+04	3.537E+04	2.243E+04	2.268E+04	1.151E+04	1.164E+04	5.663E+03	5.728E+03
3	2.690E+04	2.736E+04	1.215E+04	1.236E+04	6.890E+03	7.008E+03	4.431E+03	4.507E+03	2.274E+03	2.313E+03	1.119E+03	1.138E+03
4	8.518E+03	8.708E+03	3.845E+03	3.933E+03	2.181E+03	2.230E+03	1.403E+03	1.434E+03	7.197E+02	7.360E+02	3.542E+02	3.622E+02
6	1.684E+03	1.740E+03	7.603E+02	7.860E+02	4.312E+02	4.458E+02	2.773E+02	2.867E+02	1.423E+02	1.471E+02	7.003E+01	7.239E+01
8	5.335E+02	5.572E+02	2.409E+02	2.516E+02	1.366E+02	1.427E+02	8.787E+01	9.178E+01	4.509E+01	4.709E+01	2.219E+01	2.318E+01
10	2.189E+02	2.309E+02	9.886E+01	1.043E+02	5.606E+01	5.913E+01	3.606E+01	3.803E+01	1.850E+01	1.951E+01	9.105E+00	9.603E+00
15	4.352E+01	4.688E+01	1.965E+01	2.117E+01	1.114E+01	1.204E+01	7.168E+00	7.722E+00	3.678E+00	3.962E+00	1.810E+00	1.950E+00
20	1.389E+01	1.521E+01	6.274E+00	6.870E+00	3.558E+00	3.896E+00	2.298E+00	2.506E+00	1.174E+00	1.286E+00	5.778E+01	6.328E+01
30	2.815E+00	3.135E+00	1.271E+00	1.416E+00	7.209E+01	8.028E+01	4.637E+01	5.163E+01	2.379E+01	2.649E+01	1.171E+01	1.304E+01
45	5.890E+01	6.448E+01	2.660E+01	2.912E+01	1.508E+01	1.661E+01	9.701E+02	1.062E+01	4.978E+02	5.450E+02	2.450E+02	2.682E+02
60	2.021E+01	2.064E+01	9.127E+02	9.320E+02	5.176E+02	5.286E+02	3.329E+02	3.399E+02	1.708E+02	1.744E+02	8.406E+03	8.584E+03
75	9.197E+02	8.279E+02	4.154E+02	3.738E+02	2.355E+02	2.120E+02	1.515E+02	1.363E+02	7.744E+03	6.996E+03	3.825E+03	3.443E+03
90	5.052E+02	3.760E+02	2.282E+02	1.698E+02	1.294E+02	9.628E+03	8.323E+03	6.192E+03	4.270E+03	3.177E+03	2.102E+03	1.564E+03
120	2.246E+02	8.855E+03	1.014E+02	3.996E+03	5.751E+02	2.266E+03	3.699E+03	1.457E+03	1.898E+03	7.476E+04	9.340E+04	3.679E+04
150	1.451E+02	1.590E+03	6.553E+03	7.160E+04	3.718E+03	4.056E+04	2.390E+03	2.607E+04	1.226E+03	1.337E+04	6.035E+04	6.578E+05
179	1.263E+02	1.043E+05	5.705E+03	2.520E+06	3.235E+03	9.868E+07	2.081E+03	5.007E+07	1.068E+03	1.969E+07	5.255E+04	8.109E+08

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	2.438E+14	2.439E+14	1.085E+14	1.085E+14	6.107E+13	6.110E+13	2.719E+13	2.721E+13	1.533E+13	1.534E+13	9.828E+12	9.834E+12
2	1.524E+13	1.525E+13	6.780E+12	6.784E+12	3.817E+12	3.820E+12	1.700E+12	1.701E+12	9.580E+11	9.588E+11	6.143E+11	6.148E+11
3	3.011E+12	3.013E+12	1.340E+12	1.340E+12	7.542E+11	7.548E+11	3.359E+11	3.361E+11	1.893E+11	1.895E+11	1.214E+11	1.215E+11
4	9.531E+11	9.537E+11	4.240E+11	4.243E+11	2.387E+11	2.389E+11	1.063E+11	1.064E+11	5.991E+10	5.997E+10	3.842E+10	3.846E+10
6	1.884E+11	1.886E+11	8.384E+10	8.390E+10	4.720E+10	4.724E+10	2.102E+10	2.104E+10	1.185E+10	1.186E+10	7.597E+09	7.606E+09
8	5.971E+10	5.976E+10	2.656E+10	2.659E+10	1.496E+10	1.497E+10	6.640E+09	6.668E+09	3.754E+09	3.758E+09	2.407E+09	2.411E+09
10	2.450E+10	2.452E+10	1.090E+10	1.091E+10	6.138E+09	6.145E+09	2.733E+09	2.736E+09	1.540E+09	1.543E+09	9.877E+08	9.900E+08
15	4.871E+09	4.875E+09	2.167E+09	2.170E+09	1.220E+09	1.221E+09	5.433E+08	5.444E+08	3.062E+08	3.071E+08	1.964E+08	1.970E+08
20	1.555E+09	1.557E+09	6.918E+08	6.923E+08	3.845E+08	3.901E+08	1.734E+08	1.740E+08	9.775E+07	9.807E+07	6.268E+07	6.285E+07
30	3.151E+08	3.152E+08	1.402E+08	1.405E+08	7.892E+07	7.921E+07	3.514E+07	3.523E+07	1.981E+07	1.982E+07	1.270E+07	1.271E+07
45	6.592E+07	6.617E+07	2.933E+07	2.940E+07	1.651E+07	1.651E+07	7.353E+06	7.339E+06	4.144E+06	4.144E+06	2.657E+06	2.667E+06
60	2.262E+07	2.264E+07	1.006E+07	1.002E+07	5.666E+06	5.649E+06	2.523E+06	2.524E+06	1.422E+06	1.433E+06	9.119E+05	9.255E+05
75	1.029E+07	1.020E+07	4.580E+06	4.544E+06	2.579E+06	2.572E+06	1.148E+06	1.160E+06	6.472E+05	6.611E+05	4.150E+05	4.279E+05
90	5.655E+06	5.591E+06	2.516E+06	2.516E+06	1.417E+06	1.412E+06	6.308E+05	6.485E+05	3.555E+05	3.700E+05	2.240E+05	2.394E+05
120	2.513E+06	2.511E+06	1.118E+06	1.181E+06	6.296E+05	6.755E+05	2.804E+05	3.035E+05	1.580E+05	1.724E+05	1.013E+05	1.111E+05
150	1.624E+06	1.815E+06	7.225E+05	8.145E+05	4.068E+05	4.609E+05	1.812E+05	2.063E+05	1.021E+05	1.164E+05	6.547E+04	7.466E+04
179	1.414E+06	1.628E+06	6.291E+05	7.280E+05	3.542E+05	4.109E+05	1.577E+05	1.833E+05	8.889E+04	1.032E+05	5.700E+04	6.604E+04
DEG	7.0E-02MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	5.034E+12	5.037E+12	2.481E+12	2.483E+12	1.113E+12	1.114E+12	6.319E+11	6.326E+11	2.860E+11	2.864E+11	1.637E+11	1.640E+11
2	3.146E+11	3.149E+11	1.551E+11	1.552E+11	6.957E+10	6.967E+10	3.950E+10	3.956E+10	1.788E+10	1.791E+10	1.024E+10	1.026E+10
3	6.217E+10	6.223E+10	3.064E+10	3.068E+10	1.375E+10	1.377E+10	7.804E+09	7.821E+09	3.532E+09	3.542E+09	2.022E+09	2.029E+09
4	1.968E+10	1.970E+10	9.697E+09	9.714E+09	4.351E+09	4.360E+09	2.470E+09	2.476E+09	1.118E+09	1.122E+09	6.401E+08	6.430E+08
6	3.891E+09	3.898E+09	1.917E+09	1.922E+09	8.603E+08	8.626E+08	4.884E+08	4.900E+08	2.211E+08	2.221E+08	1.266E+08	1.274E+08
8	1.233E+09	1.236E+09	6.076E+08	6.092E+08	2.726E+08	2.734E+08	1.548E+08	1.554E+08	7.005E+07	7.050E+07	4.011E+07	4.047E+07
10	5.059E+08	5.073E+08	2.493E+08	2.500E+08	1.119E+08	1.122E+08	6.351E+07	6.381E+07	2.874E+07	2.899E+07	1.666E+07	1.666E+07
15	1.006E+08	1.008E+08	4.956E+07	4.969E+07	2.224E+07	2.234E+07	1.262E+07	1.273E+07	5.714E+06	5.800E+06	3.272E+06	3.340E+06
20	3.210E+07	3.217E+07	1.582E+07	1.587E+07	7.098E+06	7.144E+06	4.030E+06	4.084E+06	1.824E+06	1.866E+06	1.044E+06	1.077E+06
30	6.505E+06	6.520E+06	3.206E+06	3.232E+06	1.438E+06	1.465E+06	8.166E+05	8.394E+05	3.696E+05	3.852E+05	2.116E+05	2.227E+05
45	1.361E+06	1.377E+06	6.708E+05	6.870E+05	3.009E+05	3.131E+05	1.709E+05	1.798E+05	7.733E+04	8.261E+04	4.428E+04	4.777E+04
60	4.670E+05	4.802E+05	2.302E+05	2.401E+05	1.033E+05	1.095E+05	5.863E+04	6.282E+04	2.654E+04	2.880E+04	1.519E+04	1.660E+04
75	2.125E+05	2.222E+05	1.047E+05	1.111E+05	4.699E+04	5.052E+04	2.668E+04	2.891E+04	1.208E+04	1.318E+04	6.914E+03	7.563E+03
90	1.168E+05	1.242E+05	5.754E+04	6.189E+04	2.582E+04	2.802E+04	1.466E+04	1.597E+04	6.634E+03	7.227E+03	3.798E+03	4.120E+03
120	5.189E+04	5.720E+04	2.557E+04	2.824E+04	1.147E+04	1.262E+04	6.514E+03	7.118E+03	2.949E+03	3.162E+03	1.688E+03	1.775E+03
150	3.353E+04	3.814E+04	1.653E+04	1.866E+04	7.414E+03	8.242E+03	4.209E+03	4.601E+03	1.905E+03	2.012E+03	1.091E+03	1.113E+03
179	2.919E+04	3.363E+04	1.439E+04	1.639E+04	6.455E+03	7.208E+03	3.665E+03	4.008E+03	1.659E+03	1.741E+03	9.497E+02	9.577E+02
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	1.066E+11	1.068E+11	5.623E+10	5.635E+10	2.886E+10	2.894E+10	1.376E+10	1.381E+10	8.237E+09	8.269E+09	4.070E+09	4.088E+09
2	6.665E+09	6.684E+09	3.515E+09	3.528E+09	1.804E+09	1.813E+09	8.601E+08	8.655E+08	5.149E+08	5.186E+08	2.544E+08	2.565E+08
3	1.317E+09	1.322E+09	6.945E+08	6.983E+08	3.565E+08	3.580E+08	1.699E+08	1.715E+08	1.017E+08	1.028E+08	5.027E+07	5.090E+07
4	4.168E+08	4.191E+08	2.198E+08	2.214E+08	1.128E+08	1.139E+08	5.379E+07	5.446E+07	3.220E+07	3.266E+07	1.591E+07	1.618E+07
6	8.241E+07	8.310E+07	4.346E+07	4.396E+07	2.231E+07	2.246E+07	1.064E+07	1.084E+07	6.367E+06	6.507E+06	3.146E+06	3.226E+06
8	2.611E+07	2.642E+07	1.377E+07	1.399E+07	7.069E+06	7.215E+06	3.370E+06	3.458E+06	2.017E+06	2.077E+06	9.968E+05	1.031E+06
10	1.072E+07	1.088E+07	5.651E+06	5.768E+06	2.901E+06	2.978E+06	1.383E+06	1.429E+06	8.279E+05	8.588E+05	4.090E+05	4.265E+05
15	2.130E+06	2.185E+06	1.123E+06	1.161E+06	5.767E+05	6.007E+05	2.749E+05	2.888E+05	1.646E+05	1.738E+05	8.131E+04	8.645E+04
20	6.800E+05	7.054E+05	3.586E+05	3.754E+05	1.841E+05	1.945E+05	8.776E+04	9.362E+04	5.254E+04	5.639E+04	2.596E+04	2.806E+04
30	1.378E+05	1.461E+05	7.267E+04	7.785E+04	3.730E+04	4.037E+04	1.778E+04	1.943E+04	1.065E+04	1.170E+04	5.260E+03	5.820E+03
45	2.883E+04	3.132E+04	1.520E+04	1.666E+04	7.805E+03	8.616E+03	3.721E+03	4.130E+03	2.227E+03	2.478E+03	1.100E+03	1.225E+03
60	9.893E+03	1.086E+04	5.217E+03	5.747E+03	2.678E+03	2.952E+03	1.277E+03	1.402E+03	7.643E+02	8.351E+02	3.776E+02	4.085E+02
75	4.502E+03	4.923E+03	2.374E+03	2.586E+03	1.219E+03	1.315E+03	5.810E+02	6.158E+02	3.478E+02	3.627E+02	1.719E+02	1.745E+02
90	2.473E+03	2.666E+03	1.304E+03	1.386E+03	6.695E+02	6.942E+02	3.192E+02	3.197E+02	1.911E+02	1.854E+02	9.441E+01	8.711E+01
120	1.099E+03	1.132E+03	5.797E+02	5.735E+02	2.676E+02	2.781E+02	1.419E+02	1.217E+02	8.492E+01	6.744E+01	4.196E+01	2.960E+01
150	7.103E+02	7.009E+02	3.746E+02	3.466E+02	1.923E+02	1.625E+02	9.166E+01	6.749E+01	5.487E+01	3.569E+01	2.711E+01	1.423E+01
179	6.184E+02	5.998E+02	3.261E+02	2.936E+02	1.674E+02	1.357E+02	7.981E+01	5.501E+01	4.778E+01	2.838E+01	2.361E+01	1.074E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	2.497E+09	2.509E+09	1.718E+09	1.726E+09	9.824E+08	9.876E+08	5.435E+08	5.466E+08	2.750E+08	2.766E+08	1.680E+08	1.690E+08
2	1.561E+08	1.575E+08	1.074E+08	1.084E+08	6.141E+07	6.204E+07	3.397E+07	3.434E+07	1.719E+07	1.739E+07	1.050E+07	1.062E+07
3	3.084E+07	3.126E+07	2.122E+07	2.152E+07	1.213E+07	1.232E+07	6.713E+06	6.822E+06	3.397E+06	3.454E+06	2.075E+06	2.110E+06
4	9.760E+06	9.939E+06	6.715E+06	6.846E+06	3.840E+06	3.920E+06	2.125E+06	2.171E+06	1.075E+06	1.099E+06	6.567E+05	6.716E+05
6	1.930E+06	1.983E+06	1.328E+06	1.367E+06	7.593E+05	7.829E+05	4.201E+05	4.337E+05	2.126E+05	2.197E+05	1.299E+05	1.343E+05
8	6.115E+05	6.341E+05	4.276E+05	4.371E+05	2.406E+05	2.505E+05	1.331E+05	1.388E+05	6.736E+04	7.034E+04	4.114E+04	4.299E+04
10	2.509E+05	2.625E+05	1.726E+05	1.810E+05	9.873E+04	1.038E+05	5.463E+04	5.752E+04	2.764E+04	2.915E+04	1.688E+04	1.782E+04
15	4.988E+04	5.324E+04	3.432E+04	3.673E+04	1.963E+04	2.107E+04	1.086E+04	1.168E+04	5.495E+03	5.923E+03	3.356E+03	3.621E+03
20	1.592E+04	1.729E+04	1.096E+04	1.193E+04	6.266E+03	6.844E+03	3.467E+03	3.796E+03	1.754E+03	1.924E+03	1.071E+03	1.176E+03
30	3.227E+03	3.583E+03	2.220E+03	2.471E+03	1.270E+03	1.416E+03	7.024E+02	7.849E+02	3.554E+02	3.977E+02	2.171E+02	2.430E+02
45	6.751E+02	7.514E+02	4.645E+02	5.166E+02	2.656E+02	2.950E+02	1.470E+02	1.629E+02	7.437E+01	8.233E+01	4.543E+01	5.025E+01
60	2.317E+02	2.485E+02	1.594E+02	1.699E+02	9.115E+01	9.631E+01	5.043E+01	5.287E+01	2.552E+01	2.659E+01	1.559E+01	1.619E+01
75	1.054E+02	1.049E+02	7.254E+01	7.109E+01	4.148E+01	3.982E+01	2.295E+01	2.165E+01	1.161E+01	1.080E+01	7.094E+00	6.552E+00
90	5.791E+01	5.149E+01	3.985E+01	3.444E+01	2.279E+01	1.896E+01	1.261E+01	1.015E+01	6.380E+00	4.998E+00	3.897E+00	3.014E+00
120	2.574E+01	1.654E+01	1.771E+01	1.058E+01	1.013E+01	5.448E+00	5.603E+00	2.740E+00	2.836E+00	1.274E+00	1.732E+00	7.498E+01
150	1.663E+01	7.293E+00	1.144E+01	4.311E+00	6.544E+00	1.938E+00	3.621E+00	8.322E-01	1.832E+00	3.264E-01	1.119E+00	1.742E-01
179	1.448E+01	5.214E+00	9.963E+00	2.910E+00	5.496E+00	1.146E+00	3.152E+00	4.114E-01	1.595E+00	1.175E-01	9.744E-01	4.607E-02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	8.241E+07	8.291E+07	4.908E+07	4.938E+07	3.260E+07	3.280E+07	1.741E+07	1.752E+07	8.851E+06	8.906E+06	4.054E+06	4.079E+06
2	5.151E+06	5.211E+06	3.068E+06	3.104E+06	2.038E+06	2.042E+06	1.088E+06	1.101E+06	5.533E+05	5.598E+05	2.534E+05	2.564E+05
3	1.018E+06	1.035E+06	6.062E+05	6.167E+05	4.027E+05	4.097E+05	2.151E+05	2.188E+05	1.093E+05	1.112E+05	5.007E+04	5.095E+04
4	3.222E+05	3.296E+05	1.919E+05	1.963E+05	1.275E+05	1.304E+05	6.807E+04	6.965E+04	3.460E+04	3.541E+04	1.585E+04	1.622E+04
6	6.370E+04	6.588E+04	3.794E+04	3.925E+04	2.520E+04	2.607E+04	1.346E+04	1.393E+04	6.842E+03	7.079E+03	3.134E+03	3.242E+03
8	2.018E+04	2.110E+04	1.202E+04	1.257E+04	7.986E+03	8.350E+03	4.265E+03	4.460E+03	2.168E+03	2.267E+03	9.930E+02	1.038E+03
10	8.282E+03	8.744E+03	4.933E+03	5.209E+03	3.277E+03	3.461E+03	1.750E+03	1.849E+03	8.896E+02	9.397E+02	4.075E+02	4.304E+02
15	1.646E+03	1.777E+03	9.806E+02	1.059E+03	6.514E+02	7.035E+02	3.479E+02	3.757E+02	1.768E+02	1.910E+02	8.100E+01	8.749E+01
20	5.256E+02	5.774E+02	3.130E+02	3.440E+02	2.080E+02	2.285E+02	1.111E+02	1.221E+02	5.645E+01	6.205E+01	2.586E+01	2.842E+01
30	1.065E+02	1.193E+02	6.343E+01	7.104E+01	4.214E+01	4.720E+01	2.250E+01	2.521E+01	1.144E+01	1.281E+01	5.239E+00	5.869E+00
45	2.228E+01	2.463E+01	1.327E+01	1.467E+01	8.816E+00	9.742E+00	4.709E+00	5.202E+00	2.393E+00	2.644E+00	1.096E+00	1.211E+00
60	7.647E+00	7.921E+00	4.554E+00	4.713E+00	3.025E+00	3.129E+00	1.616E+00	1.670E+00	8.213E-01	8.487E-01	3.762E-01	3.887E-01
75	3.480E+00	3.195E+00	2.072E+00	1.898E+00	1.377E+00	1.259E+00	7.353E-01	6.718E-01	3.738E-01	3.413E-01	1.712E-01	1.562E-01
90	1.912E+00	1.462E+00	1.139E+00	8.666E-01	7.563E-01	5.743E-01	4.039E-01	3.060E-01	2.053E-01	1.554E-01	9.404E-02	7.111E-02
120	8.496E-01	3.546E-01	5.060E-01	2.079E-01	3.361E-01	1.370E-01	1.795E-01	7.264E-02	9.125E-02	3.677E-02	4.180E-02	1.680E-02
150	5.490E-01	7.307E-02	3.270E-01	4.069E-02	2.172E-01	2.608E-02	1.160E-01	1.345E-02	5.897E-02	6.698E-03	2.701E-02	3.032E-03
179	4.788E-01	1.159E-02	2.847E-01	4.194E-03	1.891E-01	1.875E-03	1.010E-01	5.449E-04	5.134E-02	1.447E-04	2.351E-02	3.205E-05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	2.316E+06	2.331E+06	1.046E+06	1.053E+06	5.932E+05	5.969E+05	3.816E+05	3.839E+05	1.958E+05	1.970E+05	9.635E+04	9.694E+04
2	1.448E+05	1.465E+05	6.539E+04	6.616E+04	3.768E+04	3.752E+04	2.385E+04	2.413E+04	1.224E+04	1.238E+04	6.023E+03	6.093E+03
3	2.861E+04	2.911E+04	1.292E+04	1.315E+04	7.327E+03	7.455E+03	4.712E+03	4.795E+03	2.418E+03	2.460E+03	1.190E+03	1.211E+03
4	9.058E+03	9.266E+03	4.089E+03	4.185E+03	2.319E+03	2.373E+03	1.492E+03	1.526E+03	7.654E+02	7.832E+02	3.766E+02	3.854E+02
6	1.790E+03	1.853E+03	8.086E+02	8.367E+02	4.586E+02	4.745E+02	2.949E+02	3.052E+02	1.513E+02	1.566E+02	7.447E+01	7.706E+01
8	5.673E+02	5.933E+02	2.562E+02	2.679E+02	1.453E+02	1.550E+02	9.345E+01	9.773E+01	4.795E+01	5.015E+01	2.360E+01	2.468E+01
10	2.328E+02	2.459E+02	1.051E+02	1.111E+02	5.962E+01	6.298E+01	3.835E+01	4.051E+01	1.968E+01	2.079E+01	9.683E+00	1.023E+01
15	4.628E+01	4.999E+01	2.090E+01	2.258E+01	1.185E+01	1.280E+01	7.623E+00	8.234E+00	3.912E+00	4.225E+00	1.925E+00	2.079E+00
20	1.477E+01	1.624E+01	6.672E+00	7.334E+00	3.784E+00	4.169E+00	2.434E+00	2.675E+00	1.249E+00	1.373E+00	6.145E-01	6.755E-01
30	2.994E+00	3.353E+00	1.352E+00	1.514E+00	7.667E-01	8.589E-01	4.931E-01	5.524E-01	2.530E-01	2.834E-01	1.245E-01	1.395E-01
45	6.263E+01	6.920E+01	2.829E+01	3.125E+01	1.604E+01	1.772E+01	1.032E+01	1.140E+01	5.294E+00	5.848E+00	2.605E+00	2.878E+00
60	2.149E+01	2.220E+01	9.706E+00	1.003E+01	5.504E+00	5.686E+00	3.540E+00	3.657E+00	1.817E+00	1.877E+00	8.940E+00	9.235E+00
75	9.781E+00	8.926E+00	4.417E+00	4.031E+00	2.505E+00	2.286E+00	1.611E+00	1.470E+00	8.267E+00	7.543E+00	4.068E+00	3.712E+00
90	5.373E+00	4.062E+00	2.427E+00	1.834E+00	1.376E+00	1.040E+00	8.851E+00	6.689E+00	4.541E+00	3.432E+00	2.235E+00	1.689E+00
120	2.388E+00	9.589E+00	1.074E+00	4.328E+00	6.116E+00	2.454E+00	3.734E+00	1.578E+00	2.018E+00	8.096E+00	9.933E+00	3.984E+00
150	1.543E+00	1.725E+00	6.969E+00	7.765E+00	3.952E+00	4.399E+00	2.542E+00	2.828E+00	1.304E+00	1.450E+00	6.418E+00	7.135E+00
179	1.343E+00	1.121E+00	6.067E+00	2.712E+00	3.441E+00	1.062E+00	2.213E+00	5.404E+00	1.136E+00	2.129E+00	5.588E+00	8.780E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DE0	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV			
1	2.588E+14	2.589E+14	1.151E+14	1.152E+14	6.484E+13	6.486E+13	2.887E+13	2.889E+13	1.627E+13	1.628E+13	1.043E+13	1.044E+13		
2	1.610E+13	1.619E+13	7.197E+12	7.201E+12	4.052E+12	4.045E+12	1.804E+12	1.806E+12	1.017E+12	1.018E+12	6.521E+11	6.527E+11		
3	3.196E+12	3.198E+12	1.422E+12	1.423E+12	8.006E+11	8.012E+11	3.565E+11	3.568E+11	2.009E+11	2.011E+11	1.288E+11	1.290E+11		
4	1.012E+12	1.012E+12	4.501E+11	4.504E+11	2.534E+11	2.536E+11	1.128E+11	1.129E+11	6.360E+10	6.366E+10	4.078E+10	4.082E+10		
6	2.000E+11	2.002E+11	8.899E+10	8.907E+10	5.011E+10	5.015E+10	2.231E+10	2.234E+10	1.258E+10	1.259E+10	8.064E+09	8.074E+09		
8	3.338E+10	3.344E+10	2.820E+10	2.822E+10	1.588E+10	1.589E+10	7.070E+09	7.078E+09	3.985E+09	3.989E+09	2.555E+09	2.559E+09		
10	2.601E+10	2.603E+10	1.157E+10	1.158E+10	6.515E+09	6.523E+09	2.901E+09	2.904E+09	1.635E+09	1.638E+09	1.049E+09	1.051E+09		
15	5.171E+09	5.175E+09	2.300E+09	2.303E+09	1.295E+09	1.296E+09	5.767E+08	5.778E+08	3.250E+08	3.260E+08	2.084E+08	2.091E+08		
20	1.651E+09	1.653E+09	7.343E+08	7.349E+08	4.135E+08	4.140E+08	1.841E+08	1.847E+08	1.038E+08	1.041E+08	6.654E+07	6.674E+07		
30	3.348E+08	3.346E+08	1.488E+08	1.491E+08	8.378E+07	8.409E+07	3.731E+07	3.741E+07	2.103E+07	2.105E+07	1.348E+07	1.349E+07		
45	6.998E+07	7.023E+07	3.113E+07	3.123E+07	1.753E+07	1.754E+07	7.806E+06	7.789E+06	4.399E+06	4.395E+06	2.821E+06	2.827E+06		
60	2.401E+07	2.406E+07	1.068E+07	1.064E+07	6.015E+06	5.983E+06	2.678E+06	2.675E+06	1.510E+06	1.519E+06	9.680E+05	9.810E+05		
75	1.093E+07	1.083E+07	4.862E+06	4.817E+06	2.737E+06	2.756E+06	1.219E+06	1.229E+06	6.870E+05	7.008E+05	4.405E+05	4.538E+05		
90	6.003E+06	5.923E+06	2.671E+06	2.664E+06	1.504E+06	1.517E+06	6.696E+05	6.876E+05	3.774E+05	3.926E+05	2.420E+05	2.542E+05		
180	2.668E+06	2.770E+06	1.187E+06	1.255E+06	6.683E+05	7.149E+05	2.976E+05	3.231E+05	1.677E+05	1.837E+05	1.076E+05	1.184E+05		
150	1.724E+06	1.937E+06	7.670E+05	8.698E+05	4.319E+05	4.934E+05	1.923E+05	2.205E+05	1.084E+05	1.246E+05	6.950E+04	7.990E+04		
179	1.501E+06	1.742E+06	6.678E+05	7.791E+05	3.760E+05	4.399E+05	1.674E+05	1.963E+05	9.436E+04	1.106E+05	6.051E+04	7.078E+04		
DE0	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV			
1	5.343E+12	5.347E+12	2.633E+12	2.635E+12	1.181E+12	1.183E+12	6.708E+11	6.715E+11	3.036E+11	3.040E+11	1.738E+11	1.741E+11		
2	3.348E+11	3.343E+11	1.646E+11	1.648E+11	7.385E+10	7.395E+10	4.193E+10	4.200E+10	1.898E+10	1.902E+10	1.087E+10	1.089E+10		
3	6.599E+10	6.606E+10	3.252E+10	3.257E+10	1.459E+10	1.462E+10	8.284E+09	8.302E+09	3.750E+09	3.760E+09	2.147E+09	2.154E+09		
4	2.889E+10	2.891E+10	1.029E+10	1.031E+10	4.618E+09	4.629E+09	2.622E+09	2.629E+09	1.187E+09	1.191E+09	6.795E+08	6.825E+08		
6	4.130E+09	4.138E+09	2.035E+09	2.040E+09	9.132E+08	9.158E+08	5.185E+08	5.202E+08	2.347E+08	2.358E+08	1.344E+08	1.352E+08		
8	1.309E+09	1.312E+09	6.449E+08	6.468E+08	2.894E+08	2.903E+08	1.643E+08	1.649E+08	7.436E+07	7.482E+07	4.257E+07	4.295E+07		
10	5.370E+08	5.386E+08	2.644E+08	2.654E+08	1.187E+08	1.191E+08	6.741E+07	6.772E+07	3.051E+07	3.076E+07	1.747E+07	1.768E+07		
15	1.068E+08	1.071E+08	5.261E+07	5.275E+07	2.360E+07	2.371E+07	1.340E+07	1.350E+07	6.065E+06	6.154E+06	3.473E+06	3.544E+06		
20	3.408E+07	3.415E+07	1.679E+07	1.684E+07	7.535E+06	7.590E+06	4.278E+06	4.332E+06	1.936E+06	1.980E+06	1.109E+06	1.143E+06		
30	6.905E+06	6.917E+06	3.403E+06	3.427E+06	1.527E+06	1.554E+06	8.669E+05	8.905E+05	3.923E+05	4.089E+05	2.246E+05	2.366E+05		
45	1.445E+06	1.460E+06	7.120E+05	7.286E+05	3.195E+05	3.323E+05	1.814E+05	1.909E+05	8.209E+04	8.783E+04	4.700E+04	5.082E+04		
60	4.958E+05	5.092E+05	2.443E+05	2.548E+05	1.096E+05	1.163E+05	6.224E+04	6.681E+04	2.817E+04	3.067E+04	1.613E+04	1.770E+04		
75	2.256E+05	2.359E+05	1.112E+05	1.180E+05	4.989E+04	5.376E+04	2.832E+04	3.079E+04	1.282E+04	1.406E+04	7.340E+03	8.073E+03		
90	1.239E+05	1.320E+05	6.108E+04	6.587E+04	2.740E+04	2.986E+04	1.556E+04	1.703E+04	7.042E+03	7.717E+03	4.032E+03	4.403E+03		
120	5.509E+04	6.103E+04	2.715E+04	3.016E+04	1.218E+04	1.349E+04	6.915E+03	7.611E+03	3.130E+03	3.385E+03	1.792E+03	1.900E+03		
150	3.560E+04	4.083E+04	1.754E+04	1.999E+04	7.870E+03	8.834E+03	4.468E+03	4.933E+03	2.022E+03	2.157E+03	1.158E+03	1.194E+03		
179	3.099E+04	3.606E+04	1.527E+04	1.758E+04	6.852E+03	7.733E+03	3.890E+03	4.301E+03	1.761E+03	1.868E+03	1.008E+03	1.028E+03		
DE0	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV			
1	1.132E+11	1.134E+11	5.969E+10	5.982E+10	3.064E+10	3.072E+10	1.461E+10	1.466E+10	8.744E+09	8.778E+09	4.320E+09	4.340E+09		
2	7.075E+09	7.096E+09	3.731E+09	3.745E+09	1.915E+09	1.924E+09	9.130E+08	9.187E+08	5.466E+08	5.505E+08	2.701E+08	2.724E+08		
3	1.398E+09	1.404E+09	7.372E+08	7.412E+08	3.784E+08	3.811E+08	1.804E+08	1.821E+08	1.080E+08	1.092E+08	5.336E+07	5.404E+07		
4	4.242E+08	4.448E+08	2.333E+08	2.350E+08	1.198E+08	1.209E+08	5.710E+07	5.781E+07	3.418E+07	3.468E+07	1.689E+07	1.718E+07		
6	8.748E+07	8.820E+07	4.614E+07	4.666E+07	2.368E+07	2.404E+07	1.129E+07	1.151E+07	6.759E+06	6.909E+06	3.339E+06	3.426E+06		
8	2.772E+07	2.804E+07	1.462E+07	1.485E+07	7.504E+06	7.659E+06	3.577E+06	3.672E+06	2.142E+06	2.206E+06	1.058E+06	1.095E+06		
10	1.137E+07	1.155E+07	5.999E+06	6.122E+06	3.079E+06	3.141E+06	1.468E+06	1.517E+06	8.789E+05	9.123E+05	4.342E+05	4.532E+05		
15	2.261E+06	2.319E+06	1.192E+06	1.233E+06	6.121E+05	6.380E+05	2.918E+05	3.069E+05	1.747E+05	1.848E+05	8.631E+04	9.194E+04		
20	7.219E+05	7.489E+05	3.807E+05	3.988E+05	1.954E+05	2.067E+05	9.316E+04	9.956E+04	5.577E+04	5.999E+04	2.755E+04	2.987E+04		
30	1.463E+05	1.552E+05	7.714E+04	8.279E+04	3.960E+04	4.296E+04	1.888E+04	2.070E+04	1.130E+04	1.247E+04	5.583E+03	6.206E+03		
45	3.060E+04	3.334E+04	1.614E+04	1.776E+04	8.285E+03	9.190E+03	3.950E+03	4.409E+03	2.364E+03	2.647E+03	1.168E+03	1.310E+03		
60	1.050E+04	1.158E+04	5.538E+03	6.135E+03	2.843E+03	3.154E+03	1.355E+03	1.500E+03	8.113E+02	8.938E+02	4.009E+02	4.376E+02		
75	4.779E+03	5.258E+03	2.520E+03	2.764E+03	1.294E+03	1.407E+03	6.168E+02	6.596E+02	3.642E+02	3.888E+02	1.824E+02	1.872E+02		
90	2.625E+03	2.851E+03	1.385E+03	1.483E+03	7.107E+02	7.446E+02	3.388E+02	3.427E+02	2.028E+02	2.089E+02	1.002E+02	9.357E+01		
120	1.167E+03	1.213E+03	6.154E+02	6.146E+02	3.159E+02	2.981E+02	1.506E+02	1.306E+02	9.015E+01	7.961E+01	4.454E+01	3.171E+01		
150	7.540E+02	7.516E+02	3.976E+02	3.717E+02	2.041E+02	1.743E+02	9.730E+01	7.239E+01	5.825E+01	3.828E+01	2.878E+01	1.526E+01		
179	6.564E+02	6.436E+02	3.462E+02	3.150E+02	1.777E+02	1.455E+02	8.472E+01	5.898E+01	5.072E+01	3.047E+01	2.506E+01	1.151E+01		

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	2.650E+09	2.663E+09	1.824E+09	1.833E+09	1.043E+09	1.049E+09	5.770E+08	5.803E+08	2.920E+08	2.937E+08	1.783E+08	1.794E+08
2	1.657E+08	1.672E+08	1.140E+08	1.151E+08	6.518E+07	6.587E+07	3.607E+07	3.646E+07	1.825E+07	1.846E+07	1.115E+07	1.128E+07
3	3.273E+07	3.319E+07	2.252E+07	2.286E+07	1.288E+07	1.308E+07	7.126E+06	7.244E+06	3.606E+06	3.668E+06	2.202E+06	2.241E+06
4	1.036E+07	1.055E+07	7.128E+06	7.269E+06	4.077E+06	4.162E+06	2.255E+06	2.305E+06	1.141E+06	1.167E+06	6.971E+05	7.133E+05
6	2.049E+06	2.107E+06	1.410E+06	1.452E+06	8.061E+05	8.316E+05	4.460E+05	4.607E+05	2.257E+05	2.343E+05	1.378E+05	1.426E+05
8	6.491E+05	6.737E+05	4.466E+05	4.644E+05	2.554E+05	2.662E+05	1.413E+05	1.475E+05	7.151E+04	7.475E+04	4.368E+04	4.569E+04
10	2.664E+05	2.790E+05	1.833E+05	1.924E+05	1.048E+05	1.103E+05	5.799E+04	6.115E+04	2.934E+04	3.099E+04	1.792E+04	1.894E+04
15	5.295E+04	5.663E+04	3.643E+04	3.907E+04	2.083E+04	2.242E+04	1.153E+04	1.243E+04	5.833E+03	6.304E+03	3.563E+03	3.853E+03
20	1.690E+04	1.841E+04	1.163E+04	1.270E+04	6.651E+03	7.289E+03	3.680E+03	4.043E+03	1.862E+03	2.050E+03	1.137E+03	1.253E+03
30	3.425E+03	3.822E+03	2.357E+03	2.636E+03	1.348E+03	1.512E+03	7.456E+02	8.379E+02	3.773E+02	4.246E+02	2.305E+02	2.595E+02
45	7.166E+02	8.036E+02	4.931E+02	5.526E+02	2.820E+02	3.157E+02	1.560E+02	1.744E+02	7.895E+01	8.816E+01	4.822E+01	5.382E+01
60	2.459E+02	2.664E+02	1.692E+02	1.822E+02	9.676E+01	1.033E+02	5.353E+01	5.674E+01	2.709E+01	2.854E+01	1.655E+01	1.738E+01
75	1.119E+02	1.126E+02	7.700E+01	7.636E+01	4.403E+01	4.240E+01	2.436E+01	2.328E+01	1.233E+01	1.162E+01	7.530E+00	7.050E+00
90	6.148E+01	5.534E+01	4.230E+01	3.704E+01	2.419E+01	2.040E+01	1.338E+01	1.093E+01	6.773E+00	5.386E+00	4.137E+00	3.249E+00
120	2.732E+01	1.779E+01	1.880E+01	1.138E+01	1.075E+01	5.869E+00	5.948E+00	2.955E+00	3.010E+00	1.380E+00	1.638E+00	8.099E-01
150	1.766E+01	7.829E+00	1.215E+01	4.630E+00	6.947E+00	2.083E+00	3.844E+00	8.957E-01	1.945E+00	3.518E-01	1.188E+00	1.861E-01
179	1.537E+01	5.587E+00	1.058E+01	3.118E+00	6.048E+00	1.241E+00	3.346E+00	4.407E-01	1.693E+00	1.259E-01	1.034E+00	4.936E-02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	8.748E+07	8.801E+07	5.210E+07	5.242E+07	3.461E+07	3.482E+07	1.848E+07	1.860E+07	9.396E+06	9.454E+06	4.304E+06	4.330E+06
2	5.468E+06	5.533E+06	3.257E+06	3.295E+06	2.163E+06	2.189E+06	1.155E+06	1.169E+06	5.873E+05	5.944E+05	2.690E+05	2.722E+05
3	1.080E+06	1.100E+06	6.435E+05	6.549E+05	4.275E+05	4.351E+05	2.283E+05	2.324E+05	1.160E+05	1.181E+05	5.315E+04	5.410E+04
4	3.420E+05	3.500E+05	2.037E+05	2.085E+05	1.353E+05	1.385E+05	7.226E+04	7.397E+04	3.673E+04	3.760E+04	1.682E+04	1.722E+04
6	6.762E+04	7.000E+04	4.027E+04	4.169E+04	2.675E+04	2.770E+04	1.429E+04	1.479E+04	7.263E+03	7.521E+03	3.327E+03	3.445E+03
8	2.143E+04	2.242E+04	1.276E+04	1.336E+04	8.477E+03	8.874E+03	4.527E+03	4.740E+03	2.301E+03	2.409E+03	1.054E+03	1.104E+03
10	8.792E+03	9.297E+03	5.236E+03	5.538E+03	3.479E+03	3.680E+03	1.858E+03	1.965E+03	9.443E+02	9.991E+02	4.325E+02	4.576E+02
15	1.748E+03	1.892E+03	1.041E+03	1.127E+03	6.915E+02	7.447E+02	3.693E+02	3.999E+02	1.877E+02	2.033E+02	8.598E+01	9.312E+01
20	5.579E+02	6.152E+02	3.323E+02	3.665E+02	2.207E+02	2.435E+02	1.179E+02	1.301E+02	5.993E+01	6.612E+01	2.745E+01	3.029E+01
30	1.131E+02	1.273E+02	6.733E+01	7.586E+01	4.473E+01	5.040E+01	2.389E+01	2.692E+01	1.214E+01	1.368E+01	5.562E+00	6.268E+00
45	2.365E+01	2.638E+01	1.409E+01	1.571E+01	9.359E+00	1.044E+01	4.998E+00	5.572E+00	2.541E+00	2.832E+00	1.164E+00	1.297E+00
60	8.117E+00	8.506E+00	4.834E+00	5.061E+00	3.211E+00	3.360E+00	1.715E+00	1.794E+00	8.718E+01	9.114E+01	3.993E+01	4.174E+01
75	3.694E+00	3.439E+00	2.200E+00	2.043E+00	1.461E+00	1.355E+00	7.805E+01	7.231E+01	3.967E+01	3.673E+01	1.817E+01	1.682E+01
90	2.029E+00	1.576E+00	1.209E+00	9.344E+01	8.029E+01	6.193E+01	4.288E+01	3.300E+01	2.180E+01	1.675E+01	9.983E+02	7.668E+02
120	9.019E+01	3.832E+01	5.371E+01	2.248E+01	3.058E+01	1.441E+01	1.906E+01	7.853E+02	9.687E+02	3.975E+02	4.437E+02	1.816E+02
150	5.828E+01	7.897E+02	3.471E+01	4.400E+02	2.306E+01	2.871E+02	1.231E+01	1.456E+02	6.259E+02	7.251E+03	2.857E+02	3.283E+03
179	5.074E+01	1.241E+02	3.022E+01	4.493E+03	2.007E+01	2.009E+03	1.072E+01	5.839E+04	5.450E+02	1.550E+04	2.496E+02	3.437E+05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	2.459E+06	2.474E+06	1.110E+06	1.117E+06	6.297E+05	6.336E+05	4.050E+05	4.075E+05	2.078E+05	2.091E+05	1.023E+05	1.029E+05
2	1.537E+05	1.555E+05	6.941E+04	7.025E+04	3.936E+04	3.984E+04	2.532E+04	2.562E+04	1.299E+04	1.315E+04	6.393E+03	6.470E+03
3	3.037E+04	3.091E+04	1.371E+04	1.396E+04	7.778E+03	7.917E+03	5.002E+03	5.092E+03	2.567E+03	2.613E+03	1.263E+03	1.286E+03
4	9.612E+03	9.841E+03	4.341E+03	4.444E+03	2.462E+03	2.520E+03	1.553E+03	1.621E+03	8.124E+02	8.318E+02	3.998E+02	4.093E+02
6	1.901E+03	1.968E+03	8.584E+02	8.889E+02	4.868E+02	5.041E+02	3.131E+02	3.242E+02	1.606E+02	1.664E+02	7.906E+01	8.187E+01
8	6.022E+02	6.306E+02	2.720E+02	2.848E+02	1.542E+02	1.615E+02	9.920E+01	1.039E+02	5.090E+01	5.330E+01	2.505E+01	2.623E+01
10	2.471E+02	2.615E+02	1.116E+02	1.181E+02	6.329E+01	6.647E+01	4.071E+01	4.307E+01	2.089E+01	2.210E+01	1.026E+01	1.088E+01
15	4.913E+01	5.321E+01	2.219E+01	2.403E+01	1.258E+01	1.363E+01	8.092E+00	8.764E+00	4.152E+00	4.497E+00	2.043E+00	2.213E+00
20	1.568E+01	1.730E+01	7.082E+00	7.815E+00	4.016E+00	4.432E+00	2.583E+00	2.850E+00	1.326E+00	1.463E+00	6.523E+01	7.198E+01
30	3.178E+00	3.581E+00	1.435E+00	1.617E+00	8.138E+01	9.172E+01	5.234E+01	5.899E+01	2.686E+01	3.027E+01	1.322E+01	1.490E+01
45	6.649E+01	7.412E+01	3.003E+01	3.347E+01	1.703E+01	1.898E+01	1.095E+01	1.221E+01	5.620E+02	6.264E+02	2.765E+02	3.083E+02
60	2.282E+01	2.385E+01	1.030E+01	1.077E+01	5.843E+02	6.107E+02	3.758E+02	3.928E+02	1.928E+02	2.015E+02	9.490E+03	9.918E+03
75	1.038E+01	9.608E+02	4.689E+02	4.338E+02	2.659E+02	2.460E+02	1.710E+02	1.582E+02	8.776E+03	8.119E+03	4.319E+03	3.995E+03
90	5.704E+02	4.380E+02	2.576E+02	1.978E+02	1.461E+02	1.121E+02	9.395E+03	7.212E+03	4.821E+03	3.701E+03	2.372E+03	1.821E+03
120	2.535E+02	1.037E+02	1.145E+02	4.679E+03	6.492E+03	2.653E+03	4.176E+03	1.706E+03	2.143E+03	8.75E+04	1.854E+03	4.308E+04
150	1.638E+02	1.868E+03	7.398E+03	8.408E+04	4.195E+03	4.743E+04	2.698E+03	3.062E+04	1.384E+03	1.570E+04	6.813E+04	7.726E+05
179	1.426E+02	1.202E+05	6.441E+03	2.914E+06	3.653E+03	1.144E+06	2.349E+03	5.823E+07	1.205E+03	2.298E+07	5.932E+04	9.493E+08

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	2.742E+14	2.744E+14	1.220E+14	1.221E+14	6.869E+13	6.874E+13	3.059E+13	3.061E+13	1.724E+13	1.725E+13	1.106E+13	1.106E+13
2	1.714E+13	1.715E+13	7.626E+12	7.631E+12	4.294E+12	4.297E+12	1.912E+12	1.914E+12	1.078E+12	1.078E+12	6.911E+11	6.916E+11
3	3.387E+12	3.389E+12	1.507E+12	1.508E+12	8.484E+11	8.490E+11	3.778E+11	3.781E+11	2.129E+11	2.131E+11	1.365E+11	1.367E+11
4	1.072E+12	1.073E+12	4.769E+11	4.773E+11	2.685E+11	2.687E+11	1.196E+11	1.197E+11	6.740E+10	6.747E+10	4.322E+10	4.326E+10
6	2.120E+11	2.121E+11	9.431E+10	9.438E+10	5.310E+10	5.314E+10	2.385E+10	2.387E+10	1.333E+10	1.334E+10	8.545E+09	8.556E+09
8	6.717E+10	6.722E+10	2.988E+10	2.991E+10	1.682E+10	1.684E+10	7.492E+09	7.501E+09	4.223E+09	4.227E+09	2.708E+09	2.712E+09
10	2.756E+10	2.759E+10	1.226E+10	1.227E+10	6.904E+09	6.913E+09	3.074E+09	3.078E+09	1.733E+09	1.735E+09	1.111E+09	1.113E+09
15	5.479E+09	5.483E+09	2.438E+09	2.441E+09	1.372E+09	1.374E+09	6.112E+08	6.121E+08	3.444E+08	3.454E+08	2.209E+08	2.216E+08
20	1.749E+09	1.752E+09	7.781E+08	7.789E+08	4.381E+08	4.386E+08	1.951E+08	1.957E+08	1.100E+08	1.104E+08	7.051E+07	7.075E+07
30	3.544E+08	3.546E+08	1.577E+08	1.580E+08	8.878E+07	8.911E+07	3.953E+07	3.967E+07	2.228E+07	2.232E+07	1.429E+07	1.429E+07
45	7.416E+07	7.441E+07	3.299E+07	3.312E+07	1.858E+07	1.860E+07	8.272E+06	8.254E+06	4.662E+06	4.654E+06	2.989E+06	2.993E+06
60	2.545E+07	2.552E+07	1.132E+07	1.128E+07	6.374E+06	6.338E+06	2.838E+06	2.831E+06	1.609E+06	1.607E+06	1.026E+06	1.038E+06
75	1.158E+07	1.148E+07	5.152E+06	5.099E+06	2.901E+06	2.883E+06	1.292E+06	1.300E+06	7.280E+05	7.415E+05	4.668E+05	4.803E+05
90	6.368E+06	6.246E+06	2.830E+06	2.817E+06	1.593E+06	1.604E+06	7.096E+05	7.277E+05	3.994E+05	4.158E+05	2.564E+05	2.694E+05
120	2.827E+06	2.933E+06	1.258E+06	1.330E+06	7.082E+05	7.587E+05	3.154E+05	3.433E+05	1.777E+05	1.953E+05	1.140E+05	1.260E+05
150	1.827E+06	2.063E+06	8.128E+05	9.273E+05	4.574E+05	5.253E+05	2.038E+05	2.354E+05	1.149E+05	1.330E+05	7.365E+04	8.537E+04
179	1.591E+06	1.860E+06	7.076E+05	8.325E+05	3.984E+05	4.702E+05	1.774E+05	2.099E+05	1.000E+05	1.183E+05	6.412E+04	7.575E+04
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	5.662E+12	5.666E+12	2.790E+12	2.793E+12	1.252E+12	1.253E+12	7.108E+11	7.116E+11	3.217E+11	3.227E+11	1.842E+11	1.845E+11
2	3.539E+11	3.543E+11	1.744E+11	1.746E+11	7.826E+10	7.837E+10	4.443E+10	4.450E+10	2.011E+10	2.015E+10	1.151E+10	1.154E+10
3	6.993E+10	7.000E+10	3.446E+10	3.451E+10	1.546E+10	1.549E+10	8.779E+09	8.798E+09	3.973E+09	3.984E+09	2.275E+09	2.283E+09
4	2.213E+10	2.216E+10	1.091E+10	1.093E+10	4.894E+09	4.905E+09	2.779E+09	2.786E+09	1.258E+09	1.262E+09	7.201E+08	7.232E+08
6	4.377E+09	4.384E+09	2.157E+09	2.162E+09	9.677E+08	9.705E+08	5.494E+08	5.512E+08	2.427E+08	2.449E+08	1.424E+08	1.433E+08
8	1.387E+09	1.390E+09	6.834E+08	6.854E+08	3.066E+08	3.076E+08	1.741E+08	1.748E+08	7.879E+07	7.927E+07	4.511E+07	4.551E+07
10	5.691E+08	5.708E+08	2.804E+08	2.813E+08	1.258E+08	1.263E+08	7.144E+07	7.176E+07	3.233E+07	3.259E+07	1.851E+07	1.873E+07
15	1.131E+08	1.135E+08	5.575E+07	5.591E+07	2.501E+07	2.512E+07	1.420E+07	1.430E+07	6.428E+06	6.518E+06	3.680E+06	3.755E+06
20	3.611E+07	3.620E+07	1.780E+07	1.784E+07	7.985E+06	8.038E+06	4.533E+06	4.588E+06	2.052E+06	2.089E+06	1.175E+06	1.211E+06
30	7.317E+06	7.327E+06	3.606E+06	3.629E+06	1.618E+06	1.625E+06	9.186E+05	9.430E+05	4.158E+05	4.333E+05	2.380E+05	2.508E+05
45	1.531E+06	1.545E+06	7.545E+05	7.712E+05	3.385E+05	3.519E+05	1.922E+05	2.024E+05	8.699E+04	9.320E+04	4.981E+04	5.398E+04
60	5.254E+05	5.390E+05	2.589E+05	2.699E+05	1.162E+05	1.234E+05	6.595E+04	7.092E+04	2.965E+04	3.259E+04	1.709E+04	1.883E+04
75	2.391E+05	2.499E+05	1.178E+05	1.252E+05	5.286E+04	5.710E+04	3.001E+04	3.273E+04	1.358E+04	1.466E+04	7.778E+03	8.602E+03
90	1.131E+05	1.401E+05	6.473E+04	6.997E+04	2.904E+04	3.177E+04	1.649E+04	1.813E+04	7.463E+03	8.227E+03	4.273E+03	4.697E+03
120	5.837E+04	6.501E+04	2.877E+04	3.216E+04	1.291E+04	1.440E+04	7.328E+03	8.128E+03	3.317E+03	3.617E+03	1.899E+03	2.032E+03
150	3.772E+04	4.365E+04	1.859E+04	2.138E+04	8.340E+03	9.454E+03	4.735E+03	5.280E+03	2.143E+03	2.310E+03	1.227E+03	1.378E+03
179	3.284E+04	3.880E+04	1.618E+04	1.883E+04	7.261E+03	8.285E+03	4.123E+03	4.608E+03	1.866E+03	2.002E+03	1.068E+03	1.101E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	1.199E+11	1.202E+11	6.325E+10	6.339E+10	3.247E+10	3.255E+10	1.548E+10	1.553E+10	9.266E+09	9.302E+09	4.574E+09	4.599E+09
2	7.497E+09	7.519E+09	3.954E+09	3.969E+09	2.030E+09	2.039E+09	9.675E+08	9.736E+08	5.792E+08	5.834E+08	2.862E+08	2.886E+08
3	1.481E+09	1.487E+09	7.812E+08	7.854E+08	4.010E+08	4.039E+08	1.912E+08	1.930E+08	1.144E+08	1.157E+08	5.654E+07	5.727E+07
4	4.609E+08	4.714E+08	2.473E+08	2.491E+08	1.269E+08	1.281E+08	6.051E+07	6.127E+07	3.622E+07	3.675E+07	1.790E+07	1.821E+07
6	9.271E+07	9.346E+07	4.889E+07	4.944E+07	2.510E+07	2.547E+07	1.196E+07	1.220E+07	7.162E+06	7.323E+06	3.539E+06	3.632E+06
8	2.937E+07	2.971E+07	1.549E+07	1.573E+07	7.952E+06	8.117E+06	3.791E+06	3.892E+06	2.269E+06	2.339E+06	1.121E+06	1.161E+06
10	1.205E+07	1.223E+07	6.357E+06	6.487E+06	3.263E+06	3.351E+06	1.556E+06	1.608E+06	9.313E+05	9.674E+05	4.601E+05	4.807E+05
15	2.396E+06	2.457E+06	1.264E+06	1.307E+06	6.487E+05	6.745E+05	3.092E+05	3.255E+05	1.851E+05	1.961E+05	9.147E+04	9.759E+04
20	7.649E+05	7.937E+05	4.034E+05	4.228E+05	2.074E+05	2.193E+05	9.872E+04	1.057E+05	5.910E+04	6.370E+04	2.920E+04	3.174E+04
30	1.550E+05	1.647E+05	8.174E+04	8.789E+04	4.136E+04	4.564E+04	2.000E+04	2.201E+04	1.197E+04	1.327E+04	5.917E+03	6.606E+03
45	3.243E+04	3.543E+04	1.710E+04	1.889E+04	8.779E+03	9.784E+03	4.185E+03	4.699E+03	2.506E+03	2.823E+03	1.238E+03	1.398E+03
60	1.113E+04	1.233E+04	5.869E+03	6.538E+03	3.013E+03	3.365E+03	1.436E+03	1.601E+03	8.598E+02	9.551E+02	4.248E+02	4.680E+02
75	5.064E+03	5.606E+03	2.671E+03	2.950E+03	1.371E+03	1.503E+03	6.336E+02	7.054E+02	3.133E+02	3.416E+02	1.933E+02	2.005E+02
90	2.782E+03	3.043E+03	1.467E+03	1.584E+03	7.531E+02	7.962E+02	3.590E+02	3.669E+02	2.149E+02	2.131E+02	1.062E+02	1.003E+02
120	1.262E+03	1.297E+03	6.521E+02	6.577E+02	3.347E+02	3.192E+02	1.596E+02	1.399E+02	9.553E+01	7.784E+01	4.707E+01	4.413E+01
150	7.990E+02	8.950E+02	4.214E+02	3.981E+02	2.163E+02	1.866E+02	1.031E+02	7.753E+01	6.173E+01	4.101E+01	3.050E+01	1.636E+01
179	6.956E+02	6.896E+02	3.669E+02	3.375E+02	1.883E+02	1.559E+02	8.977E+01	6.316E+01	5.374E+01	3.257E+01	2.655E+01	1.232E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	2.808E+09	2.822E+09	1.932E+09	1.942E+09	1.105E+09	1.111E+09	6.114E+08	6.149E+08	3.094E+08	3.113E+08	1.890E+08	1.901E+08
2	1.756E+08	1.772E+08	1.208E+08	1.220E+08	6.908E+07	6.981E+07	3.822E+07	3.865E+07	1.934E+07	1.956E+07	1.181E+07	1.195E+07
3	3.469E+07	3.518E+07	2.387E+07	2.422E+07	1.365E+07	1.387E+07	7.551E+06	7.679E+06	3.821E+06	3.888E+06	2.334E+06	2.375E+06
4	1.098E+07	1.119E+07	7.554E+06	7.706E+06	4.320E+06	4.413E+06	2.390E+06	2.444E+06	1.209E+06	1.238E+06	7.387E+05	7.562E+05
6	2.171E+06	2.233E+06	1.494E+06	1.539E+06	8.562E+05	8.818E+05	4.726E+05	4.886E+05	2.391E+05	2.475E+05	1.461E+05	1.513E+05
8	6.879E+05	7.145E+05	4.733E+05	4.925E+05	2.706E+05	2.873E+05	1.497E+05	1.565E+05	7.578E+04	7.930E+04	4.628E+04	4.847E+04
10	2.823E+05	2.959E+05	1.942E+05	2.041E+05	1.111E+05	1.170E+05	6.145E+04	6.489E+04	3.109E+04	3.289E+04	1.899E+04	2.010E+04
15	5.611E+04	6.013E+04	3.861E+04	4.169E+04	2.208E+04	2.381E+04	1.222E+04	1.321E+04	6.181E+03	6.697E+03	3.775E+03	4.094E+03
20	1.791E+04	1.956E+04	1.232E+04	1.350E+04	7.048E+03	7.749E+03	3.899E+03	4.299E+03	1.973E+03	2.180E+03	1.205E+03	1.333E+03
30	3.630E+03	4.070E+03	2.497E+03	2.808E+03	1.428E+03	1.610E+03	7.901E+02	8.929E+02	3.998E+02	4.525E+02	2.442E+02	2.766E+02
45	7.594E+02	8.580E+02	5.225E+02	5.903E+02	2.988E+02	3.373E+02	1.653E+02	1.864E+02	8.366E+01	9.425E+01	5.110E+01	5.754E+01
60	2.606E+02	2.851E+02	1.793E+02	1.950E+02	1.025E+02	1.107E+02	5.673E+01	6.080E+01	2.871E+01	3.059E+01	1.753E+01	1.863E+01
75	1.186E+02	1.207E+02	6.166E+01	6.190E+01	4.664E+01	4.593E+01	2.582E+01	2.499E+01	1.306E+01	1.248E+01	7.797E+00	7.574E+00
90	6.515E+01	5.939E+01	4.482E+01	3.978E+01	2.563E+01	2.192E+01	1.418E+01	1.175E+01	7.177E+00	5.795E+00	4.384E+00	3.496E+00
120	2.895E+01	1.910E+01	1.992E+01	1.223E+01	1.139E+01	6.314E+00	6.303E+00	3.182E+00	3.190E+00	1.487E+00	1.948E+00	8.735E-01
150	1.071E+01	8.392E+00	1.287E+01	4.965E+00	7.362E+00	2.236E+00	4.073E+00	9.627E-01	2.061E+00	3.788E-01	1.259E+00	2.006E-01
179	1.629E+01	5.979E+00	1.121E+01	3.336E+00	6.409E+00	1.358E+00	3.546E+00	4.715E-01	1.794E+00	1.347E-01	1.096E+00	5.280E-02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	9.270E+07	9.328E+07	5.521E+07	5.556E+07	3.668E+07	3.691E+07	1.959E+07	1.971E+07	9.957E+06	1.002E+07	4.560E+06	4.589E+06
2	5.795E+06	5.864E+06	3.451E+06	3.493E+06	2.293E+06	2.350E+06	1.224E+06	1.239E+06	6.224E+05	6.299E+05	2.851E+05	2.885E+05
3	1.145E+06	1.166E+06	6.819E+05	6.942E+05	4.530E+05	4.612E+05	2.419E+05	2.463E+05	1.230E+05	1.252E+05	5.635E+04	5.735E+04
4	3.624E+05	3.711E+05	2.158E+05	2.210E+05	1.434E+05	1.468E+05	7.657E+04	7.843E+04	3.892E+04	3.987E+04	1.783E+04	1.826E+04
6	7.166E+04	7.423E+04	4.268E+04	4.422E+04	2.835E+04	2.938E+04	1.514E+04	1.569E+04	7.696E+03	7.976E+03	3.525E+03	3.653E+03
8	2.270E+04	2.379E+04	1.352E+04	1.417E+04	8.983E+03	9.415E+03	4.797E+03	5.029E+03	2.439E+03	2.550E+03	1.117E+03	1.171E+03
10	9.317E+03	9.867E+03	5.549E+03	5.878E+03	3.666E+03	3.905E+03	1.969E+03	2.086E+03	1.001E+03	1.060E+03	4.583E+02	4.857E+02
15	1.852E+03	2.010E+03	1.103E+03	1.197E+03	7.328E+02	7.955E+02	3.913E+02	4.249E+02	1.989E+02	2.160E+02	9.111E+01	9.894E+01
20	5.913E+02	6.543E+02	3.521E+02	3.898E+02	2.339E+02	2.530E+02	1.249E+02	1.383E+02	6.350E+01	7.033E+01	2.909E+01	3.221E+01
30	1.198E+02	1.357E+02	7.135E+01	8.086E+01	4.740E+01	5.372E+01	2.531E+01	2.870E+01	1.287E+01	1.459E+01	5.894E+00	6.682E+00
45	2.507E+01	2.821E+01	1.493E+01	1.680E+01	9.917E+00	1.116E+01	5.297E+00	5.959E+00	2.692E+00	3.029E+00	1.233E+00	1.387E+00
60	8.601E+00	9.119E+00	5.123E+00	5.426E+00	3.403E+00	3.603E+00	1.817E+00	1.923E+00	9.239E+01	9.773E+01	4.232E+01	4.475E+01
75	3.914E+00	3.695E+00	2.331E+00	2.195E+00	1.549E+00	1.457E+00	8.271E+01	7.770E+01	4.204E+01	3.947E+01	1.926E+01	1.807E+01
90	2.150E+00	1.697E+00	1.281E+00	1.006E+00	8.508E+01	6.667E+01	5.444E+01	3.553E+01	2.310E+01	1.804E+01	1.058E+01	8.256E+00
120	9.557E-01	4.135E-01	5.922E-01	2.426E-01	3.781E-01	1.599E-01	2.019E-01	8.478E-02	1.027E-01	4.291E-02	4.702E-02	1.961E-02
150	6.176E-01	8.523E-02	3.678E-01	4.752E-02	2.443E-01	3.048E-02	1.305E-01	1.573E-02	6.633E-02	7.839E-03	3.038E-02	3.549E-03
179	5.377E-01	1.238E-02	3.202E-01	4.807E-03	2.127E-01	2.149E-03	1.136E-01	6.248E-04	5.775E-02	1.659E-04	2.645E-02	3.680E-05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	2.606E+06	2.622E+06	1.177E+06	1.184E+06	6.673E+05	6.715E+05	4.292E+05	4.319E+05	2.202E+05	2.216E+05	1.084E+05	1.091E+05
2	1.629E+05	1.649E+05	7.356E+04	7.445E+04	4.171E+04	4.222E+04	2.683E+04	2.716E+04	1.377E+04	1.393E+04	6.775E+03	6.857E+03
3	3.218E+04	3.277E+04	1.453E+04	1.480E+04	8.242E+03	8.392E+03	5.301E+03	5.398E+03	2.720E+03	2.770E+03	1.339E+03	1.363E+03
4	1.019E+04	1.043E+04	4.600E+03	4.712E+03	2.609E+03	2.672E+03	1.678E+03	1.719E+03	8.609E+02	8.819E+02	4.237E+02	4.340E+02
6	2.013E+03	2.087E+03	9.096E+02	9.427E+02	5.158E+02	5.346E+02	3.118E+02	3.438E+02	1.702E+02	1.764E+02	8.377E+01	8.683E+01
8	6.382E+02	6.690E+02	2.882E+02	3.021E+02	1.634E+02	1.713E+02	1.051E+02	1.102E+02	5.364E+01	5.655E+01	2.654E+01	2.783E+01
10	2.619E+02	2.775E+02	1.183E+02	1.253E+02	6.707E+01	7.108E+01	4.314E+01	4.571E+01	2.213E+01	2.346E+01	1.089E+01	1.158E+01
15	5.206E+01	5.653E+01	2.351E+01	2.553E+01	1.333E+01	1.448E+01	8.575E+00	9.312E+00	4.400E+00	4.778E+00	2.165E+00	2.351E+00
20	1.662E+01	1.841E+01	7.505E+00	8.312E+00	4.250E+00	4.714E+00	2.737E+00	3.032E+00	1.485E+00	1.556E+00	6.912E+00	7.656E+00
30	3.367E+00	3.818E+00	1.521E+00	1.724E+00	8.622E+01	9.777E+01	5.547E+01	6.288E+01	2.946E+01	3.227E+01	1.401E+01	1.588E+01
45	7.046E+01	7.928E+01	3.182E+01	3.579E+01	1.804E+01	2.030E+01	1.161E+01	1.306E+01	5.955E+02	6.699E+02	2.931E+02	3.297E+02
60	2.418E+01	2.557E+01	1.092E+01	1.155E+01	6.192E+02	6.548E+02	3.982E+02	4.212E+02	2.043E+02	2.161E+02	1.006E+02	1.063E+02
75	1.100E+01	1.032E+01	4.969E+02	4.662E+02	2.818E+02	2.644E+02	1.812E+02	1.700E+02	9.299E+03	8.725E+03	4.576E+03	4.294E+03
90	6.044E+02	4.716E+02	2.730E+02	2.129E+02	1.548E+02	1.207E+02	9.956E+03	7.766E+03	5.104E+03	3.985E+03	2.514E+03	1.961E+03
120	2.686E+02	1.119E+02	1.213E+02	5.052E+03	6.880E+03	2.864E+03	4.425E+03	1.842E+03	2.271E+03	9.451E+04	1.117E+03	4.651E+04
150	1.736E+02	2.109E+03	7.839E+03	9.092E+04	4.446E+03	5.150E+04	2.859E+03	3.311E+04	1.467E+03	1.698E+04	7.220E+04	8.354E+05
179	1.511E+02	1.289E+05	6.825E+03	3.128E+06	3.871E+03	1.229E+06	2.489E+03	6.267E+07	1.277E+03	2.478E+07	6.286E+04	1.025E+07

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV			
1	2.901E+14	2.903E+14	1.291E+14	1.292E+14	7.268E+13	7.272E+13	3.236E+13	3.238E+13	1.829E+13	1.825E+13	1.170E+13	1.170E+13		
2	1.814E+13	1.815E+13	8.068E+12	8.074E+12	4.543E+12	4.546E+12	2.823E+12	2.824E+12	1.140E+12	1.141E+12	7.311E+11	7.317E+11		
3	3.583E+12	3.586E+12	1.544E+12	1.545E+12	8.976E+11	8.982E+11	3.997E+11	4.000E+11	2.253E+11	2.255E+11	1.445E+11	1.446E+11		
4	1.134E+12	1.135E+12	5.046E+11	5.049E+11	2.841E+11	2.843E+11	1.265E+11	1.266E+11	7.130E+10	7.138E+10	4.572E+10	4.577E+10		
6	2.243E+11	2.244E+11	4.977E+10	4.986E+10	5.618E+10	5.622E+10	2.502E+10	2.504E+10	1.410E+10	1.412E+10	9.041E+09	9.051E+09		
8	7.106E+10	7.111E+10	3.161E+10	3.164E+10	1.790E+10	1.792E+10	7.926E+09	7.936E+09	4.467E+09	4.473E+09	2.865E+09	2.869E+09		
10	2.918E+10	2.919E+10	1.297E+10	1.298E+10	7.364E+09	7.373E+09	3.253E+09	3.256E+09	1.833E+09	1.836E+09	1.175E+09	1.178E+09		
15	5.797E+09	5.801E+09	2.579E+09	2.583E+09	1.452E+09	1.454E+09	6.466E+08	6.475E+08	3.644E+08	3.654E+08	2.337E+08	2.345E+08		
20	1.851E+09	1.853E+09	8.232E+08	8.242E+08	4.635E+08	4.640E+08	2.064E+08	2.070E+08	1.163E+08	1.168E+08	7.460E+07	7.488E+07		
30	3.756E+08	3.752E+08	1.668E+08	1.671E+08	9.392E+07	9.426E+07	4.182E+07	4.199E+07	2.357E+07	2.362E+07	1.512E+07	1.513E+07		
45	7.845E+07	7.849E+07	3.490E+07	3.506E+07	1.965E+07	1.969E+07	8.751E+06	8.733E+06	4.932E+06	4.921E+06	3.163E+06	3.163E+06		
60	2.692E+07	2.702E+07	1.198E+07	1.194E+07	6.743E+06	6.704E+06	3.003E+06	2.992E+06	1.692E+06	1.697E+06	1.085E+06	1.096E+06		
75	1.225E+07	1.215E+07	5.450E+06	5.389E+06	3.069E+06	3.045E+06	1.367E+06	1.373E+06	7.702E+05	7.831E+05	4.939E+05	5.075E+05		
90	6.730E+06	6.614E+06	2.994E+06	2.972E+06	1.686E+06	1.693E+06	7.507E+05	7.686E+05	4.231E+05	4.396E+05	2.713E+05	2.850E+05		
120	2.991E+06	3.099E+06	1.331E+06	1.408E+06	7.493E+05	8.036E+05	3.337E+05	3.641E+05	1.880E+05	2.074E+05	1.206E+05	1.339E+05		
150	1.933E+06	2.194E+06	8.749E+05	9.870E+05	4.842E+05	5.504E+05	2.156E+05	2.509E+05	1.215E+05	1.419E+05	7.792E+04	9.108E+04		
179	1.683E+06	1.984E+06	7.486E+05	8.852E+05	4.215E+05	5.019E+05	1.877E+05	2.242E+05	1.058E+05	1.264E+05	6.784E+04	8.095E+04		
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV			
1	5.998E+12	5.995E+12	2.952E+12	2.955E+12	1.324E+12	1.326E+12	7.520E+11	7.528E+11	3.404E+11	3.408E+11	1.949E+11	1.952E+11		
2	3.744E+11	3.748E+11	1.845E+11	1.847E+11	8.279E+10	8.281E+10	4.701E+10	4.708E+10	2.128E+10	2.132E+10	1.218E+10	1.221E+10		
3	7.398E+10	7.406E+10	3.646E+10	3.651E+10	1.636E+10	1.639E+10	9.288E+09	9.308E+09	4.204E+09	4.215E+09	2.407E+09	2.415E+09		
4	2.342E+10	2.345E+10	1.154E+10	1.156E+10	5.178E+09	5.180E+09	2.940E+09	2.947E+09	1.331E+09	1.335E+09	7.618E+08	7.651E+08		
6	4.630E+09	4.638E+09	2.282E+09	2.287E+09	1.024E+09	1.027E+09	5.813E+08	5.832E+08	2.631E+08	2.643E+08	1.506E+08	1.516E+08		
8	1.467E+09	1.471E+09	7.230E+08	7.252E+08	3.244E+08	3.255E+08	1.842E+08	1.849E+08	8.336E+07	8.386E+07	4.773E+07	4.813E+07		
10	4.020E+08	4.039E+08	2.967E+08	2.977E+08	1.331E+08	1.336E+08	7.558E+07	7.591E+07	3.421E+07	3.447E+07	1.959E+07	1.981E+07		
15	1.197E+08	1.201E+08	5.898E+07	5.916E+07	2.646E+07	2.657E+07	1.502E+07	1.513E+07	6.800E+06	6.892E+06	3.893E+06	3.970E+06		
20	3.821E+07	3.830E+07	1.853E+07	1.888E+07	8.448E+06	8.449E+06	4.796E+06	4.850E+06	2.171E+06	2.218E+06	1.243E+06	1.281E+06		
30	7.742E+06	7.748E+06	3.815E+06	3.836E+06	1.712E+06	1.739E+06	9.718E+05	9.969E+05	4.399E+05	4.583E+05	2.518E+05	2.654E+05		
45	1.620E+06	1.633E+06	7.983E+05	8.149E+05	3.581E+05	3.721E+05	2.033E+05	2.141E+05	9.203E+04	9.873E+04	5.269E+04	5.722E+04		
60	5.558E+05	5.694E+05	2.739E+05	2.854E+05	1.229E+05	1.306E+05	6.977E+04	7.515E+04	3.158E+04	3.456E+04	1.808E+04	2.000E+04		
75	2.529E+05	2.643E+05	1.247E+05	1.325E+05	5.593E+04	6.054E+04	3.175E+04	3.474E+04	1.437E+04	1.590E+04	8.229E+03	9.150E+03		
90	1.390E+05	1.483E+05	6.848E+04	7.420E+04	3.072E+04	3.374E+04	1.744E+04	1.928E+04	7.895E+03	8.756E+03	4.520E+03	5.004E+03		
120	6.178E+04	6.913E+04	3.044E+04	3.423E+04	1.365E+04	1.535E+04	7.753E+03	8.666E+03	3.509E+03	3.860E+03	2.009E+03	2.169E+03		
150	3.991E+04	4.660E+04	1.967E+04	2.283E+04	8.823E+03	1.010E+04	5.010E+03	5.644E+03	2.267E+03	2.470E+03	1.298E+03	1.367E+03		
179	3.474E+04	4.127E+04	1.712E+04	2.014E+04	7.682E+03	8.844E+03	4.362E+03	4.931E+03	1.974E+03	2.143E+03	1.130E+03	1.178E+03		
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV			
1	1.269E+11	1.271E+11	6.692E+10	6.706E+10	3.435E+10	3.444E+10	1.638E+10	1.643E+10	9.803E+09	9.841E+09	4.843E+09	4.866E+09		
2	7.932E+09	7.955E+09	4.183E+09	4.199E+09	2.147E+09	2.158E+09	1.024E+09	1.030E+09	6.128E+08	6.173E+08	3.028E+08	3.054E+08		
3	1.567E+09	1.574E+09	8.265E+08	8.310E+08	4.242E+08	4.273E+08	2.022E+08	2.041E+08	1.211E+08	1.224E+08	5.982E+07	6.060E+07		
4	4.960E+08	4.986E+08	2.616E+08	2.635E+08	1.343E+08	1.356E+08	6.401E+07	6.482E+07	3.832E+07	3.889E+07	1.893E+07	1.927E+07		
6	9.808E+07	9.886E+07	5.172E+07	5.230E+07	2.655E+07	2.695E+07	1.266E+07	1.291E+07	7.577E+06	7.750E+06	3.744E+06	3.844E+06		
8	3.108E+07	3.142E+07	1.634E+07	1.664E+07	8.413E+06	8.548E+06	4.011E+06	4.118E+06	2.401E+06	2.475E+06	1.183E+06	1.229E+06		
10	1.275E+07	1.294E+07	6.725E+06	6.863E+06	3.452E+06	3.545E+06	1.646E+06	1.702E+06	9.852E+05	1.024E+06	4.868E+05	5.090E+05		
15	2.535E+06	2.599E+06	1.337E+06	1.382E+06	6.863E+05	7.140E+05	3.272E+05	3.447E+05	1.959E+05	2.077E+05	9.677E+04	1.034E+05		
20	8.093E+05	8.397E+05	4.268E+05	4.475E+05	2.191E+05	2.322E+05	1.044E+05	1.120E+05	6.252E+04	6.753E+04	3.089E+04	3.366E+04		
30	1.640E+05	1.744E+05	8.648E+04	9.314E+04	4.439E+04	4.840E+04	2.116E+04	2.336E+04	1.267E+04	1.409E+04	6.259E+03	7.020E+03		
45	3.431E+04	3.759E+04	1.809E+04	2.006E+04	9.288E+03	1.040E+04	4.428E+03	5.000E+03	2.631E+03	3.015E+03	1.310E+03	1.490E+03		
60	1.177E+04	1.310E+04	6.209E+03	6.955E+03	3.187E+03	3.583E+03	1.519E+03	1.707E+03	9.096E+02	1.019E+03	4.494E+02	4.997E+02		
75	5.358E+03	5.968E+03	2.826E+03	3.143E+03	1.450E+03	1.603E+03	6.915E+02	7.532E+02	4.139E+02	4.446E+02	2.045E+02	2.145E+02		
90	2.943E+03	3.244E+03	1.552E+03	1.690E+03	7.968E+02	8.302E+02	3.798E+02	3.921E+02	2.274E+02	2.280E+02	1.124E+02	1.075E+02		
120	1.308E+03	1.385E+03	6.899E+02	7.028E+02	3.541E+02	3.413E+02	1.688E+02	1.497E+02	1.011E+02	8.332E+01	4.993E+01	3.657E+01		
150	4.453E+02	4.610E+02	4.458E+02	4.258E+02	2.288E+02	1.996E+02	1.091E+02	8.294E+01	6.531E+01	4.387E+01	3.227E+01	1.750E+01		
179	7.359E+02	7.380E+02	3.881E+02	3.611E+02	1.992E+02	1.667E+02	9.498E+01	6.759E+01	5.686E+01	3.483E+01	2.809E+01	1.317E+01		

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	2.971E+09	2.986E+09	2.044E+09	2.055E+09	1.169E+09	1.176E+09	6.468E+08	6.506E+08	3.273E+08	3.293E+08	1.999E+08	2.012E+08
2	1.857E+08	1.875E+08	1.278E+08	1.291E+08	7.308E+07	7.387E+07	4.043E+07	4.089E+07	2.046E+07	2.070E+07	1.250E+07	1.265E+07
3	3.678E+07	3.723E+07	2.525E+07	2.563E+07	1.444E+07	1.448E+07	7.989E+06	8.126E+06	4.043E+06	4.115E+06	2.469E+06	2.514E+06
4	1.162E+07	1.184E+07	7.992E+06	8.155E+06	4.570E+06	4.670E+06	2.529E+06	2.587E+06	1.280E+06	1.310E+06	7.815E+05	8.004E+05
6	2.297E+06	2.364E+06	1.580E+06	1.629E+06	9.037E+05	9.335E+05	5.000E+05	5.173E+05	2.530E+05	2.621E+05	1.545E+05	1.601E+05
8	7.277E+05	7.564E+05	5.007E+05	5.215E+05	2.863E+05	2.990E+05	1.584E+05	1.657E+05	8.017E+04	8.399E+04	4.897E+04	5.133E+04
10	2.986E+05	3.134E+05	2.055E+05	2.162E+05	1.175E+05	1.240E+05	6.501E+04	6.874E+04	3.290E+04	3.484E+04	2.009E+04	2.130E+04
15	5.936E+04	6.374E+04	4.084E+04	4.398E+04	2.336E+04	2.555E+04	1.292E+04	1.401E+04	6.540E+03	7.102E+03	3.994E+03	4.342E+03
20	1.895E+04	2.075E+04	1.304E+04	1.433E+04	7.456E+03	8.255E+03	4.125E+03	4.564E+03	2.088E+03	2.315E+03	1.275E+03	1.415E+03
30	3.840E+03	4.326E+03	2.642E+03	2.985E+03	1.511E+03	1.713E+03	8.359E+02	9.499E+02	4.230E+02	4.815E+02	2.584E+02	2.943E+02
45	8.034E+02	9.148E+02	5.528E+02	6.294E+02	3.161E+02	3.598E+02	1.749E+02	1.989E+02	8.851E+01	1.006E+02	5.406E+01	6.142E+01
60	2.757E+02	3.046E+02	1.897E+02	2.085E+02	1.085E+02	1.183E+02	6.002E+01	6.505E+01	3.037E+01	3.274E+01	1.855E+01	1.994E+01
75	1.255E+02	1.292E+02	8.632E+01	8.770E+01	4.937E+01	4.922E+01	2.731E+01	2.680E+01	1.382E+01	1.338E+01	8.442E+00	8.125E+00
90	6.892E+01	6.365E+01	4.742E+01	4.265E+01	2.712E+01	2.353E+01	1.500E+01	1.262E+01	7.593E+00	6.226E+00	4.638E+00	3.757E+00
120	3.063E+01	2.048E+01	2.108E+01	1.313E+01	1.205E+01	6.783E+00	6.669E+00	3.423E+00	3.375E+00	1.601E+00	2.061E+00	9.408E-01
150	1.979E+01	8.985E+00	1.362E+01	5.318E+00	7.788E+00	2.397E+00	4.309E+00	1.033E+00	2.181E+00	4.072E-01	1.332E+00	2.159E-01
179	1.723E+01	6.391E+00	1.186E+01	3.565E+00	6.781E+00	1.419E+00	3.752E+00	5.039E-01	1.898E+00	1.439E-01	1.160E+00	5.642E-02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	9.807E+07	9.869E+07	5.841E+07	5.878E+07	3.880E+07	3.905E+07	2.072E+07	2.085E+07	1.053E+07	1.060E+07	4.825E+06	4.856E+06
2	6.131E+06	6.205E+06	3.651E+06	3.696E+06	2.426E+06	2.455E+06	1.295E+06	1.311E+06	6.585E+05	6.666E+05	3.016E+05	3.053E+05
3	1.211E+06	1.234E+06	7.214E+05	7.347E+05	4.792E+05	4.881E+05	2.559E+05	2.607E+05	1.301E+05	1.325E+05	5.959E+04	6.070E+04
4	3.834E+05	3.928E+05	2.283E+05	2.340E+05	1.517E+05	1.554E+05	8.101E+04	8.301E+04	4.118E+04	4.220E+04	1.886E+04	1.933E+04
6	7.581E+04	7.860E+04	4.515E+04	4.682E+04	2.999E+04	3.110E+04	1.602E+04	1.661E+04	8.142E+03	8.445E+03	3.792E+03	3.868E+03
8	2.402E+04	2.520E+04	1.431E+04	1.501E+04	9.504E+03	9.972E+03	5.076E+03	5.326E+03	2.580E+03	2.708E+03	1.182E+03	1.240E+03
10	9.857E+03	1.046E+04	5.870E+03	6.228E+03	3.900E+03	4.138E+03	2.083E+03	2.210E+03	1.059E+03	1.124E+03	4.849E+02	5.147E+02
15	1.959E+03	2.132E+03	1.167E+03	1.270E+03	7.752E+02	8.438E+02	4.140E+02	4.507E+02	2.105E+02	2.291E+02	9.640E+01	1.049E+02
20	6.258E+02	6.948E+02	3.725E+02	4.139E+02	2.475E+02	2.750E+02	1.322E+02	1.469E+02	6.718E+01	7.468E+01	3.077E+01	3.421E+01
30	1.267E+02	1.445E+02	7.549E+01	8.606E+01	5.015E+01	5.718E+01	2.678E+01	3.054E+01	1.361E+01	1.552E+01	6.235E+00	7.111E+00
45	2.654E+01	3.012E+01	1.579E+01	1.793E+01	1.049E+01	1.191E+01	5.604E+00	6.362E+00	2.848E+00	3.234E+00	1.305E+00	1.481E+00
60	9.100E+00	9.762E+00	5.420E+00	5.808E+00	3.600E+00	3.867E+00	1.923E+00	2.059E+00	9.774E+00	1.046E+00	4.477E-01	4.791E-01
75	4.141E+00	3.964E+00	2.466E+00	2.355E+00	1.638E+00	1.563E+00	8.750E-01	8.338E-01	4.448E-01	4.236E-01	2.037E-01	1.939E-01
90	2.275E+00	1.824E+00	1.355E+00	1.081E+00	9.001E-01	7.147E-01	4.807E-01	3.819E-01	2.443E-01	1.939E-01	1.119E-01	8.876E-02
120	1.011E+00	4.456E-01	6.022E-01	2.614E-01	4.000E-01	1.724E-01	2.136E-01	9.139E-02	1.086E-01	4.626E-02	4.974E-02	2.114E-02
150	6.534E-01	9.186E-02	3.891E-01	5.126E-02	2.585E-01	3.289E-02	1.381E-01	1.698E-02	7.017E-02	8.463E-03	3.214E-02	3.832E-03
179	5.688E-01	1.419E-02	3.388E-01	5.137E-03	2.251E-01	2.296E-03	1.202E-01	6.677E-04	6.110E-02	1.774E-04	2.798E-02	3.936E-05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	2.757E+06	2.774E+06	1.245E+06	1.253E+06	7.060E+05	7.105E+05	4.541E+05	4.570E+05	2.330E+05	2.345E+05	1.147E+05	1.154E+05
2	1.723E+05	1.744E+05	7.782E+04	7.878E+04	4.413E+04	4.468E+04	2.838E+04	2.874E+04	1.456E+04	1.474E+04	7.167E+03	7.256E+03
3	3.405E+04	3.468E+04	1.538E+04	1.566E+04	8.720E+03	8.882E+03	5.608E+03	5.713E+03	2.878E+03	2.931E+03	1.416E+03	1.442E+03
4	1.078E+04	1.104E+04	4.867E+03	4.987E+03	2.760E+03	2.858E+03	1.775E+03	1.819E+03	9.108E+02	9.334E+02	4.482E+02	4.593E+02
6	2.131E+03	2.210E+03	9.623E+02	9.981E+02	5.457E+02	5.641E+02	3.510E+02	3.641E+02	1.801E+02	1.868E+02	8.863E+01	9.193E+01
8	6.752E+02	7.086E+02	3.049E+02	3.200E+02	1.729E+02	1.815E+02	1.112E+02	1.167E+02	5.707E+01	5.989E+01	2.808E+01	2.947E+01
10	2.771E+02	2.941E+02	1.251E+02	1.328E+02	7.096E+01	7.531E+01	4.564E+01	4.844E+01	2.342E+01	2.485E+01	1.152E+01	1.223E+01
15	5.508E+01	5.996E+01	2.487E+01	2.708E+01	1.411E+01	1.536E+01	9.072E+00	9.877E+00	4.655E+00	5.068E+00	2.291E+00	2.494E+00
20	1.758E+01	1.954E+01	7.940E+00	8.827E+00	4.503E+00	5.006E+00	2.896E+00	3.219E+00	1.486E+00	1.652E+00	7.313E-01	8.130E-01
30	3.563E+00	4.063E+00	1.609E+00	1.835E+00	9.124E+00	1.041E+00	5.868E-01	6.693E-01	3.011E-01	3.434E-01	1.482E-01	1.690E-01
45	7.454E-01	8.462E-01	3.366E-01	3.821E-01	1.909E-01	2.147E-01	1.228E-01	1.394E-01	6.300E-02	7.152E-02	3.100E-02	3.520E-02
60	2.558E-01	2.737E-01	1.155E-01	1.236E-01	6.551E-02	7.010E-02	4.213E-02	4.509E-02	2.162E-02	2.313E-02	1.064E-02	1.138E-02
75	1.164E-01	1.108E-01	5.257E-02	5.003E-02	2.981E-02	2.837E-02	1.917E-02	1.825E-02	9.838E-03	9.363E-03	4.942E-03	4.607E-03
90	6.395E-02	5.070E-02	2.888E-02	2.289E-02	1.638E-02	1.298E-02	1.053E-02	8.349E-03	5.405E-03	4.284E-03	2.660E-03	2.108E-03
120	2.842E-02	1.207E-02	1.283E-02	5.447E-03	7.279E-03	3.088E-03	4.681E-03	1.986E-03	2.402E-03	1.019E-03	1.182E-03	5.014E-04
150	1.836E-02	2.181E-03	0.294E-03	9.818E-04	4.703E-03	5.562E-04	3.025E-03	3.575E-04	1.552E-03	1.834E-04	7.638E-04	9.022E-05
179	1.599E-02	1.379E-05	7.221E-03	3.353E-06	4.095E-03	1.319E-06	2.634E+03	6.735E-07	1.351E-03	2.668E-07	6.650E-04	1.105E-07

	RU+H	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	3.065E+14	3.067E+14	1.363E+14	1.364E+14	7.677E+13	7.682E+13	3.419E+13	3.421E+13	1.927E+13	1.928E+13	1.235E+13	1.236E+13
2	1.916E+13	1.917E+13	8.523E+12	8.528E+12	4.799E+12	4.802E+12	2.137E+12	2.138E+12	1.204E+12	1.205E+12	7.723E+11	7.729E+11
3	3.785E+12	3.788E+12	1.684E+12	1.685E+12	9.482E+11	9.488E+11	4.222E+11	4.225E+11	2.380E+11	2.382E+11	1.526E+11	1.527E+11
4	1.198E+12	1.199E+12	5.330E+11	5.334E+11	3.001E+11	3.003E+11	1.336E+11	1.338E+11	7.532E+10	7.540E+10	4.830E+10	4.835E+10
6	2.369E+11	2.371E+11	1.054E+11	1.055E+11	5.934E+10	5.939E+10	2.643E+10	2.645E+10	1.489E+10	1.491E+10	9.550E+09	9.561E+09
8	7.506E+10	7.512E+10	3.339E+10	3.342E+10	1.880E+10	1.882E+10	8.373E+09	8.384E+09	4.719E+09	4.725E+09	3.026E+09	3.030E+09
10	3.080E+10	3.083E+10	1.370E+10	1.371E+10	7.716E+09	7.725E+09	4.336E+09	4.340E+09	1.936E+09	1.939E+09	1.242E+09	1.244E+09
15	6.123E+09	6.128E+09	2.724E+09	2.728E+09	1.534E+09	1.546E+09	6.836E+08	6.839E+08	3.349E+08	3.359E+08	2.468E+08	2.477E+08
20	1.955E+09	1.957E+09	8.696E+08	8.708E+08	4.896E+08	4.901E+08	2.180E+08	2.186E+08	1.229E+08	1.234E+08	7.880E+07	7.912E+07
30	3.961E+08	3.964E+08	1.762E+08	1.764E+08	9.921E+07	9.965E+07	4.418E+07	4.437E+07	2.490E+07	2.496E+07	1.597E+07	1.598E+07
45	8.287E+07	8.309E+07	3.687E+07	3.705E+07	2.076E+07	2.082E+07	9.244E+06	9.227E+06	5.210E+06	5.196E+06	3.341E+06	3.338E+06
60	2.844E+07	2.857E+07	1.265E+07	1.263E+07	7.123E+06	7.082E+06	3.172E+06	3.157E+06	1.788E+06	1.790E+06	1.166E+06	1.156E+06
75	1.294E+07	1.284E+07	5.757E+06	5.688E+06	3.242E+06	3.212E+06	1.444E+06	1.447E+06	8.136E+05	8.257E+05	5.217E+05	5.353E+05
90	7.109E+06	6.974E+06	3.163E+06	3.132E+06	1.781E+06	1.784E+06	7.930E+05	8.104E+05	4.469E+05	4.638E+05	2.866E+05	3.010E+05
120	3.160E+06	3.270E+06	1.406E+06	1.487E+06	7.915E+05	8.498E+05	3.524E+05	3.856E+05	1.986E+05	2.198E+05	1.274E+05	1.420E+05
150	2.042E+06	2.330E+06	9.083E+05	1.049E+06	5.114E+05	5.949E+05	2.277E+05	2.670E+05	1.264E+05	1.511E+05	8.230E+04	9.702E+04
179	1.778E+06	2.112E+06	7.908E+05	9.463E+05	4.453E+05	5.349E+05	1.983E+05	2.391E+05	1.117E+05	1.348E+05	7.166E+04	8.639E+04
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	6.328E+12	6.332E+12	3.118E+12	3.121E+12	1.399E+12	1.400E+12	7.943E+11	7.952E+11	3.595E+11	3.600E+11	2.058E+11	2.062E+11
2	3.955E+11	3.959E+11	1.949E+11	1.951E+11	8.746E+10	8.748E+10	4.965E+10	4.974E+10	2.247E+10	2.252E+10	1.287E+10	1.290E+10
3	7.815E+10	7.824E+10	3.851E+10	3.856E+10	1.728E+10	1.731E+10	9.811E+09	9.832E+09	4.440E+09	4.453E+09	2.542E+09	2.551E+09
4	2.474E+10	2.477E+10	1.219E+10	1.221E+10	5.469E+09	5.482E+09	3.105E+09	3.114E+09	1.405E+09	1.410E+09	8.047E+08	8.081E+08
6	4.891E+09	4.899E+09	2.410E+09	2.416E+09	1.081E+09	1.085E+09	6.140E+08	6.161E+08	2.779E+08	2.792E+08	1.591E+08	1.601E+08
8	1.550E+09	1.553E+09	7.638E+08	7.661E+08	3.427E+08	3.448E+08	8.806E+07	8.953E+07	5.042E+07	5.083E+07	2.069E+07	2.091E+07
10	6.360E+08	6.379E+08	3.134E+08	3.145E+08	1.406E+08	1.411E+08	7.983E+07	8.018E+07	3.613E+07	3.640E+07	4.113E+06	4.192E+06
15	1.264E+08	1.269E+08	6.230E+07	6.250E+07	2.795E+07	2.806E+07	1.587E+07	1.597E+07	7.183E+06	7.276E+06	1.313E+06	1.352E+06
20	4.036E+07	4.048E+07	1.989E+07	1.994E+07	8.923E+06	8.973E+06	5.066E+06	5.120E+06	2.293E+06	2.341E+06	1.313E+06	1.352E+06
30	8.178E+06	8.182E+06	4.030E+06	4.048E+06	1.808E+06	1.815E+06	1.027E+06	1.052E+06	4.645E+05	4.804E+05	2.660E+05	2.805E+05
45	1.711E+06	1.722E+06	8.432E+05	8.596E+05	3.783E+05	3.938E+05	2.148E+05	2.262E+05	9.722E+04	1.044E+05	5.566E+04	6.057E+04
60	5.871E+05	6.007E+05	2.893E+05	3.013E+05	1.268E+05	1.380E+05	7.370E+04	7.949E+04	3.336E+04	3.663E+04	1.910E+04	2.120E+04
75	2.672E+05	2.790E+05	1.317E+05	1.401E+05	5.908E+04	6.407E+04	3.354E+04	3.681E+04	1.518E+04	1.687E+04	8.692E+03	9.718E+03
90	1.468E+05	1.568E+05	7.234E+04	7.855E+04	3.245E+04	3.577E+04	1.843E+04	2.046E+04	8.340E+03	9.304E+03	4.775E+03	5.322E+03
120	6.524E+04	7.340E+04	3.215E+04	3.638E+04	1.442E+04	1.643E+04	8.189E+03	9.226E+03	3.707E+03	4.113E+03	2.122E+03	2.313E+03
150	4.215E+04	4.967E+04	2.077E+04	2.435E+04	9.320E+03	1.078E+04	5.292E+03	6.026E+03	2.395E+03	2.638E+03	1.371E+03	1.460E+03
179	3.670E+04	4.406E+04	1.809E+04	2.151E+04	8.115E+03	9.471E+03	4.607E+03	5.270E+03	2.085E+03	2.290E+03	1.194E+03	1.260E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	1.340E+11	1.343E+11	7.068E+10	7.084E+10	3.628E+10	3.638E+10	1.730E+10	1.736E+10	1.036E+10	1.040E+10	5.116E+09	5.140E+09
2	8.378E+09	8.403E+09	4.418E+09	4.435E+09	2.268E+09	2.279E+09	1.081E+09	1.088E+09	6.473E+08	6.521E+08	3.198E+08	3.226E+08
3	1.655E+09	1.662E+09	8.730E+08	8.777E+08	4.481E+08	4.513E+08	2.136E+08	2.156E+08	1.279E+08	1.293E+08	6.319E+07	6.402E+07
4	5.240E+08	5.267E+08	2.763E+08	2.783E+08	1.418E+08	1.442E+08	6.762E+07	6.848E+07	4.048E+07	4.108E+07	2.000E+07	2.036E+07
6	1.036E+08	1.044E+08	5.464E+07	5.524E+07	2.805E+07	2.847E+07	1.337E+07	1.363E+07	8.004E+06	8.188E+06	3.955E+06	4.062E+06
8	3.283E+07	3.318E+07	1.731E+07	1.758E+07	8.887E+06	9.071E+06	4.237E+06	4.351E+06	2.536E+06	2.616E+06	1.253E+06	1.299E+06
10	1.347E+07	1.366E+07	7.104E+06	7.248E+06	3.647E+06	3.745E+06	1.738E+06	1.799E+06	1.041E+06	1.082E+06	5.142E+05	5.382E+05
15	2.678E+06	2.745E+06	1.412E+06	1.460E+06	7.249E+05	7.567E+05	3.456E+05	3.645E+05	2.069E+05	2.196E+05	1.022E+05	1.094E+05
20	8.549E+05	8.869E+05	4.508E+05	4.729E+05	2.314E+05	2.456E+05	1.103E+05	1.185E+05	6.605E+04	7.148E+04	3.263E+04	3.564E+04
30	1.732E+05	1.843E+05	9.135E+04	9.853E+04	4.689E+04	5.125E+04	2.235E+04	2.475E+04	1.338E+04	1.494E+04	6.612E+03	7.448E+03
45	3.624E+04	3.981E+04	1.911E+04	2.126E+04	9.811E+03	1.104E+04	4.677E+03	5.311E+03	2.800E+03	3.194E+03	1.383E+03	1.585E+03
60	1.244E+04	1.390E+04	6.559E+03	7.388E+03	3.367E+03	3.810E+03	1.605E+03	1.817E+03	9.608E+02	1.075E+03	4.747E+02	5.329E+02
75	5.660E+03	6.343E+03	2.985E+03	3.444E+03	1.532E+03	1.707E+03	7.304E+02	8.031E+02	4.373E+02	4.744E+02	2.160E+02	2.291E+02
90	3.109E+03	3.452E+03	1.640E+03	1.801E+03	8.417E+02	9.065E+02	4.012E+02	4.186E+02	2.402E+02	2.435E+02	1.187E+02	1.149E+02
120	1.382E+03	1.477E+03	7.287E+02	7.499E+02	3.741E+02	3.644E+02	1.783E+02	1.599E+02	1.068E+02	9.908E+01	5.275E+01	3.914E+01
150	8.929E+02	9.197E+02	4.709E+02	4.549E+02	2.417E+02	2.133E+02	1.152E+02	8.861E+01	6.898E+01	4.688E+01	3.408E+01	1.871E+01
179	7.774E+02	7.888E+02	4.100E+02	3.859E+02	2.104E+02	1.742E+02	1.003E+02	7.215E+01	6.006E+01	3.720E+01	2.967E+01	1.407E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-00MEV		1.5E-00MEV		2.0E-00MEV	
1	3.139E+09	3.155E+09	2.159E+09	2.171E+09	1.235E+09	1.242E+09	6.833E+08	6.873E+08	3.458E+08	3.479E+08	2.112E+08	2.125E+08
2	1.962E+08	1.981E+08	1.350E+08	1.364E+08	7.720E+07	7.805E+07	4.271E+07	4.320E+07	2.161E+07	2.187E+07	1.320E+07	1.330E+07
3	3.876E+07	3.933E+07	2.667E+07	2.708E+07	1.525E+07	1.549E+07	8.439E+06	8.586E+06	4.270E+06	4.347E+06	2.608E+06	2.656E+06
4	1.227E+07	1.251E+07	8.442E+06	8.617E+06	4.822E+06	4.945E+06	2.671E+06	2.733E+06	1.352E+06	1.384E+06	8.256E+05	8.459E+05
5	2.426E+06	2.498E+06	1.669E+06	1.722E+06	9.546E+05	9.867E+05	5.231E+05	5.468E+05	2.673E+05	2.770E+05	1.632E+05	1.693E+05
6	7.687E+05	7.996E+05	5.289E+05	5.513E+05	3.025E+05	3.161E+05	1.673E+05	1.752E+05	8.468E+04	8.881E+04	5.172E+04	5.428E+04
8	3.154E+05	3.314E+05	2.170E+05	2.286E+05	1.241E+05	1.311E+05	6.867E+04	7.271E+04	3.475E+04	3.686E+04	2.122E+04	2.253E+04
10	6.271E+04	6.745E+04	4.314E+04	4.656E+04	2.467E+04	2.672E+04	1.365E+04	1.483E+04	6.908E+03	7.520E+03	4.219E+03	4.598E+03
15	2.002E+04	2.198E+04	1.377E+04	1.518E+04	7.876E+03	8.715E+03	4.358E+03	4.838E+03	2.205E+03	2.454E+03	1.347E+03	1.500E+03
20	4.056E+03	4.592E+03	2.791E+03	3.169E+03	1.596E+03	1.819E+03	8.830E+02	1.009E+03	4.468E+02	5.115E+02	2.729E+02	3.127E+02
45	8.487E+02	9.735E+02	5.839E+02	6.701E+02	3.339E+02	3.872E+02	1.848E+02	2.120E+02	9.349E+01	1.072E+02	5.710E+01	6.546E+01
60	2.912E+02	3.250E+02	2.004E+02	2.225E+02	1.146E+02	1.244E+02	6.340E+01	6.949E+01	3.208E+01	3.498E+01	1.960E+01	2.132E+01
75	1.325E+02	1.381E+02	9.119E+01	9.378E+01	5.215E+01	5.247E+01	2.885E+01	2.869E+01	1.460E+01	1.433E+01	8.917E+00	8.703E+00
90	7.281E+01	6.812E+01	5.009E+01	4.567E+01	2.865E+01	2.551E+01	1.585E+01	1.353E+01	8.020E+00	6.680E+00	4.899E+00	4.032E+00
120	3.236E+01	2.194E+01	2.226E+01	1.407E+01	1.273E+01	7.277E+00	7.044E+00	3.676E+00	3.565E+00	1.721E+00	2.177E+00	1.012E+00
150	2.091E+01	9.608E+00	1.439E+01	5.690E+00	8.227E+00	2.566E+00	4.552E+00	1.108E+00	2.303E+00	4.373E+01	1.407E+00	2.321E+01
179	1.820E+01	6.823E+00	1.253E+01	3.806E+00	7.163E+00	1.515E+00	3.963E+00	5.378E+01	2.005E+00	1.536E+01	1.225E+00	6.021E+02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	1.036E+08	1.043E+08	6.170E+07	6.210E+07	4.099E+07	4.125E+07	2.189E+07	2.203E+07	1.113E+07	1.120E+07	5.097E+06	5.130E+06
2	6.476E+06	6.556E+06	3.857E+06	3.905E+06	2.562E+06	2.594E+06	1.368E+06	1.385E+06	6.955E+05	7.043E+05	3.186E+05	3.226E+05
3	1.280E+06	1.303E+06	7.620E+05	7.764E+05	5.062E+05	5.168E+05	2.704E+05	2.755E+05	1.374E+05	1.400E+05	6.295E+04	6.414E+04
4	4.050E+05	4.151E+05	2.412E+05	2.472E+05	1.602E+05	1.643E+05	0.557E+04	8.773E+04	4.350E+04	4.460E+04	1.992E+04	2.043E+04
6	8.008E+04	8.309E+04	4.769E+04	4.949E+04	3.168E+04	3.288E+04	1.692E+04	1.756E+04	8.601E+03	8.928E+03	3.940E+03	4.089E+03
8	2.537E+04	2.664E+04	1.511E+04	1.587E+04	1.004E+04	1.065E+04	5.361E+03	5.632E+03	2.725E+03	2.863E+03	1.248E+03	1.312E+03
10	1.041E+04	1.106E+04	6.201E+03	6.589E+03	4.119E+03	4.378E+03	2.200E+03	2.338E+03	1.118E+03	1.189E+03	5.122E+02	5.445E+02
15	2.070E+03	2.257E+03	1.233E+03	1.345E+03	8.189E+02	8.946E+02	4.373E+02	4.773E+02	2.223E+02	2.425E+02	1.018E+02	1.111E+02
20	6.608E+02	7.366E+02	3.935E+02	4.388E+02	2.614E+02	2.916E+02	1.396E+02	1.557E+02	7.097E+01	7.917E+01	3.251E+01	3.627E+01
30	1.339E+02	1.535E+02	7.974E+01	9.145E+01	5.297E+01	6.076E+01	2.829E+01	3.245E+01	1.438E+01	1.650E+01	6.587E+00	7.556E+00
45	2.804E+01	3.210E+01	1.668E+01	1.912E+01	1.108E+01	1.270E+01	5.919E+00	6.782E+00	3.009E+00	3.447E+00	1.378E+00	1.579E+00
60	9.613E+00	1.043E+01	5.725E+00	6.209E+00	3.803E+00	4.123E+00	2.031E+00	2.201E+00	1.032E+00	1.118E+00	4.729E+01	5.122E+01
75	4.375E+00	4.247E+00	2.605E+00	2.524E+00	1.721E+00	1.675E+00	9.243E+01	8.934E+01	4.699E+00	4.539E+01	2.152E+01	2.078E+01
90	2.403E+00	1.950E+00	1.431E+00	1.161E+00	9.508E+01	7.694E+01	5.078E+01	4.101E+01	2.581E+01	2.082E+01	1.182E+01	9.530E+02
120	1.068E+00	4.795E+01	6.361E+01	2.814E+01	4.226E+01	1.866E+01	2.257E+01	9.839E+02	1.147E+01	4.981E+02	5.254E+02	2.276E+02
150	6.902E+01	9.849E+02	4.110E+01	5.521E+02	2.731E+01	3.544E+02	1.458E+01	1.831E+02	7.413E+02	9.125E+03	3.395E+02	4.133E+03
179	6.009E+01	1.514E+02	3.579E+01	5.482E+03	2.377E+01	2.451E+03	1.270E+01	7.128E+04	6.454E+02	1.894E+04	2.956E+02	4.205E+05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	2.912E+06	2.931E+06	1.315E+06	1.324E+06	7.458E+05	7.506E+05	4.797E+05	4.828E+05	2.461E+05	2.477E+05	1.211E+05	1.219E+05
2	1.820E+05	1.843E+05	8.220E+04	8.324E+04	4.682E+04	4.750E+04	2.998E+04	3.036E+04	1.538E+04	1.558E+04	7.571E+03	7.666E+03
3	3.596E+04	3.644E+04	1.624E+04	1.655E+04	9.211E+03	9.385E+03	5.924E+03	6.036E+03	3.040E+03	3.097E+03	1.446E+03	1.524E+03
4	1.138E+04	1.167E+04	5.141E+03	5.271E+03	2.915E+03	2.949E+03	1.875E+03	1.922E+03	9.621E+02	9.865E+02	4.735E+02	4.854E+02
6	2.251E+03	2.336E+03	1.017E+03	1.055E+03	5.765E+02	5.984E+02	3.708E+02	3.849E+02	1.902E+02	1.975E+02	9.362E+01	9.718E+01
8	7.132E+02	7.493E+02	3.221E+02	3.384E+02	1.827E+02	1.919E+02	1.175E+02	1.234E+02	6.028E+01	6.334E+01	2.966E+01	3.117E+01
10	2.927E+02	3.111E+02	1.322E+02	1.405E+02	7.495E+01	7.967E+01	4.821E+01	5.124E+01	2.474E+01	2.629E+01	1.217E+01	1.294E+01
15	5.818E+01	6.350E+01	2.627E+01	2.868E+01	1.493E+01	1.666E+01	9.583E+00	1.046E+01	4.917E+00	5.367E+00	2.420E+00	2.641E+00
20	1.857E+01	2.072E+01	8.387E+00	9.358E+00	4.757E+00	5.307E+00	3.059E+00	3.413E+00	1.570E+00	1.751E+00	7.725E+01	8.619E+01
30	3.763E+00	4.317E+00	1.700E+00	1.950E+00	9.638E+00	1.106E+00	6.199E+01	7.112E+01	3.181E+01	3.649E+01	1.565E+01	1.796E+01
45	7.874E+01	9.021E+01	3.556E+01	4.074E+01	2.017E+01	2.310E+01	1.297E+01	1.486E+01	6.655E+02	7.624E+02	3.275E+02	3.752E+02
60	2.702E+01	2.926E+01	1.220E+01	1.322E+01	6.920E+02	7.464E+02	4.451E+02	4.820E+02	2.284E+02	2.473E+02	1.124E+02	1.217E+02
75	1.230E+01	1.187E+01	5.553E+02	5.361E+02	3.149E+02	3.040E+02	2.025E+02	1.955E+02	1.039E+02	1.003E+02	5.114E+03	4.937E+03
90	6.755E+02	5.443E+02	3.051E+02	2.845E+02	1.730E+02	1.304E+02	1.113E+02	8.964E+03	5.709E+03	4.599E+03	2.810E+03	2.263E+03
120	3.002E+02	1.299E+02	1.356E+02	5.865E+03	7.889E+03	3.395E+03	4.945E+03	2.138E+03	2.537E+03	1.097E+03	1.249E+03	5.309E+04
150	1.940E+02	2.352E+03	8.761E+03	1.059E+03	4.968E+03	5.908E+04	3.195E+03	3.856E+04	1.640E+03	1.978E+04	8.069E+04	9.730E+05
179	1.689E+02	1.471E+05	7.627E+03	3.589E+06	4.326E+03	1.415E+06	2.782E+03	7.230E+07	1.428E+03	2.869E+07	7.025E+04	1.190E+07

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV			
1	3.233E+14	3.235E+14	1.438E+14	1.439E+14	8.098E+13	8.102E+13	3.606E+13	3.608E+13	2.032E+13	2.034E+13	1.303E+13	1.304E+13		
2	2.021E+13	2.022E+13	8.990E+12	8.995E+12	5.062E+12	5.065E+12	2.254E+12	2.256E+12	1.270E+12	1.271E+12	8.146E+11	8.152E+11		
3	3.993E+12	3.995E+12	1.776E+12	1.777E+12	1.000E+12	1.001E+12	4.454E+11	4.457E+11	2.510E+11	2.512E+11	1.609E+11	1.611E+11		
4	1.264E+12	1.265E+12	5.622E+11	5.626E+11	3.165E+11	3.168E+11	1.410E+11	1.411E+11	7.945E+10	7.953E+10	5.094E+10	5.100E+10		
6	2.499E+11	2.501E+11	1.112E+11	1.113E+11	6.259E+10	6.265E+10	2.787E+10	2.790E+10	1.571E+10	1.573E+10	1.007E+10	1.009E+10		
8	7.918E+10	7.923E+10	3.522E+10	3.526E+10	1.983E+10	1.985E+10	8.832E+09	8.844E+09	4.977E+09	4.984E+09	3.192E+09	3.196E+09		
10	3.249E+10	3.252E+10	1.445E+10	1.447E+10	8.138E+09	8.148E+09	3.624E+09	3.629E+09	2.042E+09	2.045E+09	1.310E+09	1.312E+09		
15	6.459E+09	6.464E+09	2.873E+09	2.877E+09	1.618E+09	1.620E+09	7.204E+08	7.213E+08	4.060E+08	4.070E+08	2.604E+08	2.613E+08		
20	2.062E+09	2.064E+09	9.173E+08	9.187E+08	5.165E+08	5.169E+08	2.300E+08	2.306E+08	1.296E+08	1.301E+08	8.312E+07	8.348E+07		
30	4.178E+08	4.183E+08	1.859E+08	1.860E+08	1.046E+08	1.050E+08	4.660E+07	4.682E+07	2.626E+07	2.635E+07	1.684E+07	1.687E+07		
45	8.741E+07	8.759E+07	3.889E+07	3.909E+07	2.190E+07	2.197E+07	9.750E+06	9.737E+06	5.495E+06	5.479E+06	3.524E+06	3.518E+06		
60	3.000E+07	3.016E+07	1.334E+07	1.333E+07	7.513E+06	7.472E+06	3.346E+06	3.326E+06	1.886E+06	1.885E+06	1.029E+06	1.027E+06		
75	1.365E+07	1.356E+07	6.073E+06	5.995E+06	3.419E+06	3.382E+06	1.523E+06	1.523E+06	8.581E+05	8.692E+05	5.503E+05	5.637E+05		
90	7.499E+06	7.344E+06	3.336E+06	3.295E+06	1.878E+06	1.877E+06	8.365E+05	8.531E+05	4.714E+05	4.887E+05	3.023E+05	3.173E+05		
120	3.333E+06	3.443E+06	1.483E+06	1.568E+06	8.348E+05	8.971E+05	3.718E+05	4.076E+05	2.095E+05	2.326E+05	1.344E+05	1.504E+05		
150	2.154E+06	2.471E+06	9.581E+05	1.113E+06	5.394E+05	6.317E+05	2.402E+05	2.838E+05	1.354E+05	1.607E+05	8.681E+04	1.032E+05		
179	1.875E+06	2.248E+06	8.341E+05	1.007E+06	4.697E+05	5.664E+05	2.091E+05	2.546E+05	1.179E+05	1.437E+05	7.558E+04	9.207E+04		
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV			
1	6.674E+12	6.679E+12	3.289E+12	3.292E+12	1.476E+12	1.477E+12	8.379E+11	8.388E+11	3.792E+11	3.797E+11	2.171E+11	2.175E+11		
2	4.172E+11	4.176E+11	2.056E+11	2.058E+11	9.225E+10	9.237E+10	5.237E+10	5.246E+10	2.371E+10	2.376E+10	1.357E+10	1.361E+10		
3	8.243E+10	8.252E+10	4.062E+10	4.068E+10	1.823E+10	1.826E+10	1.035E+10	1.037E+10	4.684E+09	4.697E+09	2.682E+09	2.691E+09		
4	2.609E+10	2.612E+10	1.286E+10	1.288E+10	5.769E+09	5.782E+09	3.275E+09	3.284E+09	1.482E+09	1.488E+09	8.488E+08	8.524E+08		
6	5.159E+09	5.167E+09	2.542E+09	2.549E+09	1.141E+09	1.144E+09	6.047E+08	6.049E+08	2.931E+08	2.944E+08	1.678E+08	1.688E+08		
8	1.635E+09	1.638E+09	8.056E+08	8.082E+08	3.614E+08	3.637E+08	2.052E+08	2.060E+08	9.288E+07	9.341E+07	5.318E+07	5.361E+07		
10	6.708E+08	6.728E+08	3.306E+08	3.318E+08	1.483E+08	1.489E+08	8.421E+07	8.457E+07	3.811E+07	3.838E+07	2.182E+07	2.205E+07		
15	1.333E+08	1.339E+08	6.572E+07	6.594E+07	2.948E+07	2.960E+07	1.674E+07	1.684E+07	7.577E+06	7.671E+06	4.338E+06	4.420E+06		
20	4.257E+07	4.271E+07	2.098E+07	2.103E+07	9.412E+06	9.459E+06	5.344E+06	5.396E+06	2.419E+06	2.468E+06	1.385E+06	1.426E+06		
30	8.626E+06	8.629E+06	4.251E+06	4.266E+06	1.907E+06	1.913E+06	1.083E+06	1.109E+06	4.901E+05	5.102E+05	2.806E+05	2.959E+05		
45	1.805E+06	1.814E+06	8.894E+05	9.054E+05	3.990E+05	4.139E+05	2.266E+05	2.385E+05	1.025E+05	1.102E+05	5.871E+04	6.400E+04		
60	6.193E+05	6.326E+05	3.052E+05	3.175E+05	1.369E+05	1.456E+05	7.774E+04	8.395E+04	3.519E+04	3.874E+04	2.015E+04	2.244E+04		
75	2.818E+05	2.941E+05	1.389E+05	1.478E+05	6.231E+04	6.771E+04	3.538E+04	3.894E+04	1.601E+04	1.788E+04	9.168E+03	1.030E+04		
90	1.548E+05	1.655E+05	7.630E+04	8.302E+04	3.423E+04	3.786E+04	1.944E+04	2.167E+04	8.767E+03	9.872E+03	5.037E+03	5.652E+03		
120	6.881E+04	7.782E+04	3.391E+04	3.861E+04	1.521E+04	1.735E+04	8.638E+03	9.809E+03	3.910E+03	4.377E+03	2.239E+03	2.463E+03		
150	4.446E+04	5.288E+04	2.191E+04	2.594E+04	9.831E+03	1.149E+04	5.582E+03	6.425E+03	2.526E+03	2.814E+03	1.446E+03	1.558E+03		
179	3.871E+04	4.698E+04	1.908E+04	2.294E+04	8.559E+03	1.011E+04	4.860E+03	5.626E+03	2.200E+03	2.445E+03	1.259E+03	1.345E+03		
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV			
1	1.414E+11	1.416E+11	7.456E+10	7.472E+10	3.827E+10	3.837E+10	1.825E+10	1.831E+10	1.092E+10	1.097E+10	5.397E+09	5.422E+09		
2	8.837E+09	8.863E+09	4.661E+09	4.678E+09	2.392E+09	2.404E+09	1.140E+09	1.148E+09	6.828E+08	6.878E+08	3.373E+08	3.403E+08		
3	1.746E+09	1.753E+09	9.208E+08	9.258E+08	4.727E+08	4.741E+08	2.253E+08	2.275E+08	1.349E+08	1.364E+08	6.665E+07	6.745E+07		
4	5.527E+08	5.555E+08	2.915E+08	2.935E+08	1.496E+08	1.510E+08	7.132E+07	7.223E+07	4.270E+07	4.334E+07	2.110E+07	2.147E+07		
6	1.093E+08	1.101E+08	5.763E+07	5.826E+07	2.958E+07	3.002E+07	1.410E+07	1.438E+07	8.443E+06	8.638E+06	4.171E+06	4.286E+06		
8	3.463E+07	3.499E+07	1.826E+07	1.854E+07	9.374E+06	9.568E+06	4.699E+06	4.590E+06	2.675E+06	2.760E+06	1.322E+06	1.371E+06		
10	1.421E+07	1.441E+07	7.493E+06	7.643E+06	3.846E+06	3.950E+06	1.834E+06	1.898E+06	1.098E+06	1.142E+06	5.424E+05	5.681E+05		
15	2.825E+06	2.894E+06	1.490E+06	1.540E+06	7.646E+05	7.984E+05	3.645E+05	3.847E+05	2.182E+05	2.319E+05	1.078E+05	1.156E+05		
20	9.017E+05	9.352E+05	4.755E+05	4.990E+05	2.441E+05	2.592E+05	1.164E+05	1.252E+05	6.966E+04	7.553E+04	3.442E+04	3.769E+04		
30	1.827E+05	1.945E+05	9.635E+04	1.041E+05	4.946E+04	5.418E+04	2.358E+04	2.619E+04	1.412E+04	1.581E+04	6.974E+03	7.890E+03		
45	3.823E+04	4.209E+04	2.016E+04	2.251E+04	1.035E+04	1.169E+04	4.933E+03	5.633E+03	2.953E+03	3.391E+03	1.459E+03	1.683E+03		
60	1.312E+04	1.473E+04	6.918E+03	7.836E+03	3.551E+03	4.045E+03	1.694E+03	1.932E+03	1.013E+03	1.155E+03	5.007E+02	5.674E+02		
75	5.970E+03	5.731E+03	3.148E+03	3.553E+03	1.616E+03	1.815E+03	7.704E+02	8.551E+02	4.612E+02	5.055E+02	2.279E+02	2.444E+02		
90	3.279E+03	3.669E+03	1.729E+03	1.915E+03	8.878E+02	9.643E+02	4.232E+02	4.462E+02	2.534E+02	2.598E+02	1.252E+02	1.287E+02		
120	1.458E+03	1.574E+03	7.687E+02	7.993E+02	3.946E+02	3.886E+02	1.881E+02	1.707E+02	1.126E+02	9.512E+01	5.564E+01	4.423E+01		
150	9.48E+02	9.813E+02	4.967E+02	4.854E+02	2.550E+02	2.276E+02	1.215E+02	9.457E+01	7.276E+01	5.004E+01	3.595E+01	1.998E+01		
179	8.200E+02	8.422E+02	4.324E+02	4.120E+02	2.220E+02	1.902E+02	1.058E+02	7.699E+01	6.335E+01	3.969E+01	3.130E+01	1.500E+01		

SR (38)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	3.311E+09	3.328E+09	2.278E+09	2.290E+09	1.303E+09	1.310E+09	7.207E+08	7.250E+08	3.647E+08	3.670E+08	2.229E+08	2.242E+08
2	2.069E+08	2.090E+08	1.424E+08	1.439E+08	8.142E+07	8.233E+07	4.505E+07	4.558E+07	2.280E+07	2.307E+07	1.392E+07	1.410E+07
3	4.089E+07	4.149E+07	2.813E+07	2.857E+07	1.609E+07	1.636E+07	8.901E+06	9.059E+06	4.580E+06	4.587E+06	2.751E+06	2.803E+06
4	1.294E+07	1.320E+07	8.904E+06	9.092E+06	5.092E+06	5.207E+06	2.817E+06	2.884E+06	1.426E+06	1.461E+06	8.708E+05	8.926E+05
6	2.559E+06	2.636E+06	1.761E+06	1.817E+06	1.007E+06	1.041E+06	5.571E+05	5.771E+05	2.819E+05	2.924E+05	1.722E+05	1.787E+05
8	8.108E+05	8.440E+05	5.679E+05	5.820E+05	3.190E+05	3.337E+05	1.765E+05	1.850E+05	8.932E+04	9.377E+04	5.456E+04	5.732E+04
10	3.327E+05	3.499E+05	2.289E+05	2.414E+05	1.309E+05	1.385E+05	7.243E+04	7.680E+04	3.665E+04	3.993E+04	2.239E+04	2.380E+04
15	6.614E+04	7.127E+04	4.551E+04	4.920E+04	2.602E+04	2.825E+04	1.440E+04	1.568E+04	7.286E+03	7.951E+03	4.450E+03	4.861E+03
20	2.111E+04	2.325E+04	1.453E+04	1.606E+04	8.308E+03	9.223E+03	4.597E+03	5.120E+03	2.326E+03	2.597E+03	1.421E+03	1.588E+03
30	4.278E+03	4.866E+03	2.944E+03	3.360E+03	1.683E+03	1.929E+03	9.314E+02	1.070E+03	4.713E+02	5.427E+02	2.879E+02	3.317E+02
45	8.952E+02	1.035E+03	6.159E+02	7.125E+02	3.522E+02	4.076E+02	1.949E+02	2.255E+02	9.862E+01	1.141E+02	6.023E+01	6.967E+01
60	3.072E+02	3.462E+02	2.114E+02	2.372E+02	1.209E+02	1.348E+02	6.687E+01	7.413E+01	3.384E+01	3.733E+01	2.067E+01	2.275E+01
75	1.398E+02	1.474E+02	9.618E+01	1.002E+02	5.500E+01	5.629E+01	3.043E+01	3.067E+01	1.540E+01	1.533E+01	9.406E+00	9.310E+00
90	7.679E+01	7.281E+01	5.284E+01	4.984E+01	3.022E+01	2.698E+01	1.672E+01	1.449E+01	8.460E+00	7.157E+00	5.167E+00	4.322E+00
120	3.413E+01	2.347E+01	2.348E+01	1.506E+01	1.343E+01	7.799E+00	7.430E+00	3.944E+00	3.760E+00	1.848E+00	2.297E+00	1.087E+00
150	2.205E+01	1.026E+01	1.517E+01	6.080E+00	8.678E+00	2.749E+00	4.801E+00	1.186E+00	2.430E+00	4.691E+01	1.484E+00	2.493E+01
179	1.920E+01	7.276E+00	1.321E+01	4.059E+00	7.555E+00	1.615E+00	4.180E+00	5.733E+01	2.115E+00	1.638E+01	1.292E+00	6.419E+02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	1.093E+08	1.100E+08	6.508E+07	6.550E+07	4.323E+07	4.351E+07	2.309E+07	2.324E+07	1.174E+07	1.181E+07	5.376E+06	5.411E+06
2	6.831E+06	6.916E+06	4.068E+06	4.120E+06	2.702E+06	2.737E+06	1.443E+06	1.462E+06	7.337E+05	7.430E+05	3.360E+05	3.403E+05
3	1.350E+06	1.375E+06	8.038E+05	8.191E+05	5.340E+05	5.442E+05	2.852E+05	2.906E+05	1.450E+05	1.477E+05	6.639E+04	6.767E+04
4	4.272E+05	4.380E+05	2.544E+05	2.609E+05	1.690E+05	1.733E+05	9.026E+04	9.258E+04	4.588E+04	4.706E+04	2.102E+04	2.156E+04
6	8.447E+04	8.770E+04	5.031E+04	5.224E+04	3.342E+04	3.471E+04	1.785E+04	1.854E+04	9.072E+03	9.424E+03	4.155E+03	4.317E+03
8	2.676E+04	2.813E+04	1.594E+04	1.676E+04	1.059E+04	1.113E+04	5.655E+03	5.947E+03	2.875E+03	3.023E+03	1.317E+03	1.385E+03
10	1.098E+04	1.168E+04	6.541E+03	6.960E+03	4.345E+03	4.624E+03	2.321E+03	2.470E+03	1.180E+03	1.256E+03	5.403E+02	5.751E+02
15	2.183E+03	2.387E+03	1.300E+03	1.422E+03	8.638E+02	9.449E+02	4.613E+02	5.047E+02	2.349E+02	2.566E+02	1.074E+02	1.175E+02
20	6.970E+02	7.797E+02	4.151E+02	4.645E+02	2.575E+02	3.087E+02	1.473E+02	1.649E+02	7.486E+01	8.382E+01	3.429E+01	3.839E+01
30	1.412E+02	1.629E+02	8.411E+01	9.702E+01	5.587E+01	6.446E+01	2.984E+01	3.443E+01	1.517E+01	1.750E+01	6.947E+00	8.018E+00
45	2.955E+01	3.417E+01	1.760E+01	2.035E+01	1.169E+01	1.352E+01	6.243E+00	7.219E+00	3.174E+00	3.699E+00	1.454E+00	1.681E+00
60	1.014E+01	1.114E+01	6.039E+00	6.628E+00	4.011E+00	4.401E+00	2.142E+00	2.349E+00	1.089E+00	1.194E+00	4.988E+00	5.468E+00
75	4.614E+00	4.544E+00	2.748E+00	2.700E+00	1.826E+00	1.792E+00	9.750E+00	9.561E+01	4.956E+01	4.857E+01	2.270E+01	2.224E+01
90	2.535E+00	2.099E+00	1.510E+00	1.245E+00	1.003E+00	8.250E+01	5.356E+01	4.397E+01	2.723E+01	2.232E+01	1.247E+01	1.022E+01
120	1.127E+00	5.154E+01	6.710E+01	3.026E+01	4.457E+01	1.995E+01	2.380E+01	1.058E+01	1.210E+01	5.357E+02	5.542E+02	2.448E+02
150	7.280E+01	1.063E+01	4.336E+01	5.941E+02	2.880E+01	3.841E+02	1.538E+01	1.971E+02	7.819E+02	9.828E+03	3.581E+02	4.452E+03
179	6.338E+01	1.614E+02	3.775E+01	5.845E+03	2.508E+01	2.613E+03	1.339E+01	7.600E+04	6.807E+02	2.020E+04	3.118E+02	4.488E+05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	3.071E+06	3.092E+06	1.387E+06	1.396E+06	7.866E+05	7.918E+05	5.059E+05	5.092E+05	2.596E+05	2.613E+05	1.278E+05	1.286E+05
2	1.920E+05	1.944E+05	8.671E+04	8.781E+04	4.917E+04	4.980E+04	3.163E+04	3.203E+04	1.623E+04	1.643E+04	7.986E+03	8.088E+03
3	3.793E+04	3.866E+04	1.713E+04	1.746E+04	9.715E+03	9.903E+03	6.249E+03	6.369E+03	3.206E+03	3.268E+03	1.578E+03	1.608E+03
4	1.201E+04	1.232E+04	5.422E+03	5.562E+03	3.075E+03	3.154E+03	1.978E+03	2.029E+03	1.015E+03	1.041E+03	4.994E+02	5.123E+02
6	2.743E+03	2.466E+03	1.072E+03	1.114E+03	6.080E+02	6.316E+02	3.911E+02	4.063E+02	2.007E+02	2.085E+02	9.875E+01	1.026E+02
8	7.523E+02	7.912E+02	3.397E+02	3.573E+02	1.927E+02	2.026E+02	1.239E+02	1.303E+02	6.358E+01	6.688E+01	3.129E+01	3.291E+01
10	3.087E+02	3.286E+02	1.394E+02	1.484E+02	7.906E+01	8.416E+01	5.085E+01	5.413E+01	2.609E+01	2.777E+01	1.284E+01	1.367E+01
15	6.136E+01	6.715E+01	2.771E+01	3.033E+01	1.572E+01	1.750E+01	1.011E+01	1.066E+01	5.187E+00	5.676E+00	2.552E+00	2.793E+00
20	1.959E+01	2.194E+01	8.847E+00	9.907E+00	5.017E+00	5.618E+00	3.237E+00	3.613E+00	1.656E+00	1.854E+00	8.148E+00	9.124E+00
30	3.969E+00	4.581E+00	1.793E+00	2.069E+00	1.017E+00	1.173E+00	6.538E+01	7.546E+01	3.355E+01	3.872E+01	1.651E+01	1.905E+01
45	8.305E+01	9.603E+01	3.751E+01	4.337E+01	2.127E+01	2.445E+01	1.368E+01	1.582E+01	7.026E+02	8.116E+02	3.454E+02	3.994E+02
60	2.850E+01	3.124E+01	1.287E+01	1.411E+01	7.299E+02	8.001E+02	4.694E+02	5.146E+02	2.409E+02	2.640E+02	1.185E+02	1.299E+02
75	1.297E+01	1.270E+01	5.857E+02	5.737E+02	3.322E+02	3.253E+02	2.136E+02	2.092E+02	1.096E+02	1.074E+02	5.394E+03	5.284E+03
90	7.125E+02	5.837E+02	3.213E+02	2.636E+02	1.825E+02	1.495E+02	1.174E+02	9.613E+02	6.022E+03	4.932E+03	2.563E+03	2.427E+03
120	3.167E+02	1.398E+02	1.430E+02	6.307E+03	8.110E+03	3.576E+03	5.216E+03	2.300E+03	2.676E+03	1.180E+03	1.317E+03	5.807E+04
150	2.046E+02	2.533E+03	9.241E+03	1.141E+03	5.240E+03	6.462E+04	3.370E+03	4.156E+04	1.729E+03	2.130E+04	8.511E+04	1.048E+04
179	1.781E+02	1.574E+05	8.045E+03	3.839E+06	4.563E+03	1.515E+06	2.934E+03	7.753E+07	1.506E+03	3.081E+07	7.410E+04	1.280E+07

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	3.405E+14	3.407E+14	1.515E+14	1.516E+14	8.529E+13	8.534E+13	3.798E+13	3.801E+13	2.141E+13	2.142E+13	1.373E+13	1.374E+13
2	2.128E+13	2.130E+13	9.469E+12	9.475E+12	5.332E+12	5.335E+12	2.374E+12	2.376E+12	1.338E+12	1.339E+12	8.580E+11	8.587E+11
3	4.206E+12	4.208E+12	1.871E+12	1.872E+12	1.053E+12	1.054E+12	4.691E+11	4.695E+11	2.644E+11	2.646E+11	1.695E+11	1.697E+11
4	1.331E+12	1.332E+12	5.922E+11	5.926E+11	3.334E+11	3.337E+11	1.485E+11	1.486E+11	8.368E+10	8.373E+10	5.366E+10	5.372E+10
6	2.632E+11	2.634E+11	1.171E+11	1.172E+11	6.593E+10	6.599E+10	2.936E+10	2.939E+10	1.655E+10	1.657E+10	1.061E+10	1.062E+10
8	8.340E+10	8.346E+10	3.710E+10	3.714E+10	2.089E+10	2.091E+10	9.303E+09	9.315E+09	5.243E+09	5.250E+09	3.362E+09	3.366E+09
10	3.422E+10	3.425E+10	1.522E+10	1.524E+10	8.572E+09	8.581E+09	3.817E+09	3.823E+09	2.151E+09	2.154E+09	1.380E+09	1.382E+09
15	6.803E+09	6.809E+09	3.027E+09	3.030E+09	1.704E+09	1.707E+09	7.588E+08	7.597E+08	4.277E+08	4.286E+08	2.742E+08	2.752E+08
20	2.172E+09	2.174E+09	9.662E+08	9.678E+08	5.440E+08	5.445E+08	2.422E+08	2.428E+08	1.365E+08	1.371E+08	8.755E+07	8.795E+07
30	4.401E+08	4.407E+08	1.958E+08	1.959E+08	1.102E+08	1.105E+08	4.909E+07	4.933E+07	2.766E+07	2.777E+07	1.774E+07	1.777E+07
45	9.207E+07	9.221E+07	4.096E+07	4.118E+07	2.306E+07	2.316E+07	1.027E+07	1.026E+07	5.788E+06	5.771E+06	3.712E+06	3.703E+06
60	3.159E+07	3.179E+07	1.406E+07	1.406E+07	7.914E+06	7.873E+06	3.524E+06	3.501E+06	1.986E+06	1.982E+06	1.274E+06	1.280E+06
75	1.438E+07	1.430E+07	6.397E+06	6.312E+06	3.602E+06	3.557E+06	1.604E+06	1.601E+06	9.039E+05	9.135E+05	5.796E+05	5.927E+05
90	7.899E+06	7.725E+06	3.514E+06	3.462E+06	1.979E+06	1.971E+06	8.811E+05	8.966E+05	4.966E+05	5.140E+05	3.184E+05	3.340E+05
120	3.511E+06	3.620E+06	1.562E+06	1.651E+06	8.793E+05	9.455E+05	3.916E+05	4.303E+05	2.207E+05	2.458E+05	1.415E+05	1.590E+05
150	2.268E+06	2.616E+06	1.009E+06	1.180E+06	5.682E+05	6.697E+05	2.530E+05	3.013E+05	1.426E+05	1.706E+05	9.144E+04	1.097E+05
179	1.975E+06	2.385E+06	8.786E+05	1.070E+06	4.947E+05	6.053E+05	2.203E+05	2.709E+05	1.242E+05	1.529E+05	7.961E+04	9.801E+04
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	7.039E+12	7.035E+12	3.465E+12	3.468E+12	1.554E+12	1.556E+12	8.825E+11	8.835E+11	3.994E+11	4.000E+11	2.287E+11	2.291E+11
2	4.395E+11	4.399E+11	2.166E+11	2.168E+11	9.717E+10	9.730E+10	3.517E+10	3.526E+10	2.497E+10	2.502E+10	1.430E+10	1.433E+10
3	8.683E+10	8.693E+10	4.279E+10	4.285E+10	1.920E+10	1.923E+10	1.090E+10	1.092E+10	4.933E+09	4.947E+09	2.825E+09	2.834E+09
4	2.748E+10	2.752E+10	1.354E+10	1.357E+10	6.077E+09	6.091E+09	3.450E+09	3.460E+09	1.562E+09	1.567E+09	8.941E+08	8.978E+08
6	5.434E+09	5.442E+09	2.678E+09	2.684E+09	1.202E+09	1.205E+09	6.822E+08	6.846E+08	3.088E+08	3.101E+08	1.768E+08	1.778E+08
8	1.722E+09	1.725E+09	8.486E+08	8.513E+08	3.807E+08	3.821E+08	2.162E+08	2.170E+08	9.783E+07	9.838E+07	5.601E+07	5.645E+07
10	7.066E+08	7.086E+08	3.482E+08	3.495E+08	1.562E+08	1.569E+08	8.870E+07	8.908E+07	4.015E+07	4.042E+07	2.299E+07	2.322E+07
15	1.405E+08	1.411E+08	6.922E+07	6.948E+07	3.106E+07	3.117E+07	1.763E+07	1.773E+07	7.981E+06	8.075E+06	4.569E+06	4.653E+06
20	4.484E+07	4.500E+07	2.210E+07	2.215E+07	9.914E+06	9.959E+06	5.629E+06	5.680E+06	2.548E+06	2.597E+06	1.459E+06	1.501E+06
30	9.086E+06	9.089E+06	4.478E+06	4.491E+06	2.009E+06	2.034E+06	1.141E+06	1.166E+06	5.162E+05	5.371E+05	2.956E+05	3.116E+05
45	1.901E+06	1.908E+06	9.368E+05	9.522E+05	4.203E+05	4.355E+05	2.386E+05	2.511E+05	1.080E+05	1.162E+05	6.184E+04	6.752E+04
60	6.523E+05	6.652E+05	3.215E+05	3.341E+05	1.442E+05	1.534E+05	8.189E+04	8.852E+04	3.706E+04	4.091E+04	2.122E+04	2.373E+04
75	2.969E+05	3.094E+05	1.463E+05	1.557E+05	6.564E+04	7.143E+04	3.727E+04	4.112E+04	1.687E+04	1.891E+04	9.657E+03	1.091E+04
90	1.631E+05	1.745E+05	8.037E+04	8.761E+04	3.606E+04	4.001E+04	2.047E+04	2.293E+04	9.266E+03	1.046E+04	5.305E+03	5.994E+03
120	7.248E+04	8.238E+04	3.572E+04	4.091E+04	1.603E+04	1.840E+04	9.099E+03	1.042E+04	4.118E+03	4.652E+03	2.358E+03	2.619E+03
150	4.683E+04	5.622E+04	2.308E+04	2.760E+04	1.036E+04	1.223E+04	5.879E+03	6.842E+03	2.661E+03	2.998E+03	1.524E+03	1.660E+03
179	4.078E+04	5.003E+04	2.010E+04	2.445E+04	9.016E+03	1.077E+04	5.119E+03	5.988E+03	2.317E+03	2.608E+03	1.327E+03	1.435E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	1.489E+11	1.492E+11	7.853E+10	7.871E+10	4.031E+10	4.042E+10	1.922E+10	1.924E+10	1.150E+10	1.155E+10	5.684E+09	5.711E+09
2	9.309E+09	9.336E+09	4.909E+09	4.927E+09	2.520E+09	2.532E+09	1.201E+09	1.209E+09	7.192E+08	7.245E+08	3.553E+08	3.585E+08
3	1.839E+09	1.847E+09	9.699E+08	9.751E+08	4.979E+08	5.014E+08	2.374E+08	2.396E+08	1.421E+08	1.437E+08	7.021E+07	7.115E+07
4	5.824E+08	5.851E+08	3.070E+08	3.091E+08	1.576E+08	1.591E+08	7.513E+07	7.608E+07	4.497E+07	4.565E+07	2.222E+07	2.262E+07
6	1.151E+08	1.160E+08	6.070E+07	6.135E+07	3.116E+07	3.142E+07	1.486E+07	1.515E+07	8.893E+06	9.100E+06	4.394E+06	4.516E+06
8	3.647E+07	3.685E+07	1.923E+07	1.952E+07	9.873E+06	1.008E+07	4.707E+06	4.836E+06	2.818E+06	2.908E+06	1.392E+06	1.455E+06
10	1.497E+07	1.517E+07	7.893E+06	8.049E+06	4.052E+06	4.141E+06	1.931E+06	2.000E+06	1.156E+06	1.204E+06	5.713E+05	5.988E+05
15	2.975E+06	3.047E+06	1.569E+06	1.622E+06	8.054E+05	8.412E+05	3.840E+05	4.055E+05	2.299E+05	2.446E+05	1.136E+05	1.219E+05
20	9.498E+05	9.848E+05	5.009E+05	5.256E+05	2.571E+05	2.732E+05	1.226E+05	1.320E+05	7.338E+04	7.971E+04	3.625E+04	3.979E+04
30	1.925E+05	2.050E+05	1.015E+05	1.098E+05	5.210E+04	5.719E+04	2.484E+04	2.767E+04	1.487E+04	1.672E+04	7.346E+03	8.346E+03
45	4.027E+04	4.444E+04	2.124E+04	2.379E+04	1.090E+04	1.237E+04	5.197E+03	5.967E+03	3.111E+03	3.594E+03	1.537E+03	1.786E+03
60	1.382E+04	1.558E+04	7.287E+03	8.299E+03	3.740E+03	4.289E+03	1.783E+03	2.051E+03	1.067E+03	1.227E+03	5.274E+02	6.033E+02
75	6.288E+03	7.133E+03	3.316E+03	3.769E+03	1.702E+03	1.928E+03	8.115E+02	9.039E+02	4.858E+02	5.380E+02	2.400E+02	2.604E+02
90	3.454E+03	3.894E+03	1.822E+03	2.035E+03	9.351E+02	1.027E+03	4.458E+02	4.751E+02	2.669E+02	2.748E+02	1.319E+02	1.309E+02
120	1.535E+03	1.674E+03	8.046E+02	8.509E+02	4.156E+02	4.139E+02	1.981E+02	1.819E+02	1.186E+02	1.015E+02	5.860E+01	4.467E+01
150	9.920E+02	1.046E+03	5.232E+02	5.174E+02	2.686E+02	2.456E+02	1.280E+02	1.008E+02	7.664E+01	5.336E+01	3.787E+01	2.131E+01
179	8.637E+02	8.983E+02	4.555E+02	4.394E+02	2.338E+02	2.028E+02	1.115E+02	8.208E+01	6.673E+01	4.230E+01	3.297E+01	1.599E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	3.487E+09	3.505E+09	2.399E+09	2.412E+09	1.372E+09	1.340E+09	7.591E+08	7.637E+08	3.841E+08	3.866E+08	2.346E+08	2.361E+08
2	2.180E+08	2.201E+08	1.500E+08	1.516E+08	8.577E+07	8.674E+07	4.745E+07	4.802E+07	2.401E+07	2.431E+07	1.467E+07	1.485E+07
3	4.307E+07	4.371E+07	2.963E+07	3.010E+07	1.695E+07	1.753E+07	9.376E+06	9.544E+06	4.744E+06	4.833E+06	2.998E+06	2.953E+06
4	1.363E+07	1.390E+07	9.379E+06	9.579E+06	5.364E+06	5.486E+06	2.968E+06	3.039E+06	1.502E+06	1.539E+06	9.172E+05	9.405E+05
6	2.695E+06	2.778E+06	1.855E+06	1.915E+06	1.061E+06	1.097E+06	5.868E+05	6.082E+05	2.969E+05	3.082E+05	1.814E+05	1.883E+05
8	8.541E+05	8.895E+05	5.876E+05	6.134E+05	3.360E+05	3.518E+05	1.859E+05	1.951E+05	9.409E+04	9.887E+04	5.747E+04	6.043E+04
10	3.505E+05	3.689E+05	2.411E+05	2.545E+05	1.379E+05	1.460E+05	7.629E+04	8.099E+04	3.861E+04	4.106E+04	2.358E+04	2.510E+04
15	6.967E+04	7.520E+04	4.794E+04	5.192E+04	2.741E+04	2.982E+04	1.517E+04	1.655E+04	7.675E+03	8.395E+03	4.688E+03	5.133E+03
20	2.224E+04	2.456E+04	1.530E+04	1.696E+04	8.751E+03	9.745E+03	4.842E+03	5.410E+03	2.450E+03	2.745E+03	1.496E+03	1.678E+03
30	4.507E+03	5.150E+03	3.101E+03	3.556E+03	1.773E+03	2.042E+03	9.811E+02	1.133E+03	4.965E+02	5.748E+02	3.032E+02	3.515E+02
45	9.429E+02	1.098E+03	6.488E+02	7.564E+02	3.710E+02	4.330E+02	2.053E+02	2.366E+02	1.039E+02	1.213E+02	6.345E+01	7.405E+01
60	3.236E+02	3.684E+02	2.226E+02	2.524E+02	1.273E+02	1.475E+02	9.811E+01	7.898E+01	3.564E+01	3.979E+01	2.177E+01	2.425E+01
75	1.472E+02	1.572E+02	1.013E+02	1.068E+02	5.794E+01	6.006E+01	3.205E+01	3.275E+01	1.622E+01	1.638E+01	9.908E+00	9.948E+00
90	8.089E+01	7.773E+01	5.566E+01	5.217E+01	3.183E+01	2.884E+01	1.761E+01	1.550E+01	8.911E+00	7.660E+00	5.443E+00	4.627E+00
120	3.595E+01	2.508E+01	2.474E+01	1.611E+01	1.415E+01	8.349E+00	7.826E+00	4.226E+00	3.960E+00	1.983E+00	2.419E+00	1.167E+00
150	2.323E+01	1.095E+01	1.598E+01	6.491E+00	9.140E+00	2.933E+00	5.057E+00	1.269E+00	2.559E+00	5.027E+00	1.563E+00	2.674E+00
179	2.023E+01	7.752E+00	1.392E+01	4.324E+00	7.958E+00	1.720E+00	4.403E+00	6.107E+01	2.228E+00	1.744E+01	1.361E+00	6.837E+02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	1.151E+08	1.159E+08	6.855E+07	6.900E+07	4.554E+07	4.584E+07	2.432E+07	2.448E+07	1.236E+07	1.244E+07	5.662E+06	5.700E+06
2	7.195E+06	7.287E+06	4.285E+06	4.340E+06	2.847E+06	2.883E+06	1.520E+06	1.540E+06	7.728E+05	7.828E+05	3.540E+05	3.585E+05
3	1.422E+06	1.449E+06	8.647E+05	8.631E+05	5.624E+05	5.734E+05	3.004E+05	3.062E+05	1.527E+05	1.557E+05	6.994E+04	7.130E+04
4	4.500E+05	4.616E+05	2.680E+05	2.749E+05	1.780E+05	1.826E+05	9.507E+04	9.755E+04	4.833E+04	4.959E+04	2.214E+04	2.271E+04
6	8.897E+04	9.244E+04	5.299E+04	5.507E+04	3.520E+04	3.659E+04	1.880E+04	1.954E+04	9.556E+03	9.933E+03	4.377E+03	4.550E+03
8	2.819E+04	2.966E+04	1.679E+04	1.767E+04	1.115E+04	1.174E+04	5.957E+03	6.271E+03	3.028E+03	3.188E+03	1.387E+03	1.460E+03
10	1.157E+04	1.232E+04	6.890E+03	7.341E+03	4.577E+03	4.878E+03	2.444E+03	2.605E+03	1.242E+03	1.324E+03	5.691E+02	6.067E+02
15	2.300E+03	2.520E+03	1.370E+03	1.502E+03	9.098E+02	9.977E+02	4.859E+02	5.329E+02	2.470E+02	2.709E+02	1.131E+02	1.241E+02
20	7.341E+02	8.242E+02	4.372E+02	4.911E+02	2.904E+02	3.263E+02	1.551E+02	1.743E+02	7.885E+01	8.860E+01	3.612E+01	4.058E+01
30	1.488E+02	1.725E+02	8.859E+01	1.028E+02	5.885E+01	6.830E+01	3.143E+01	3.648E+01	1.598E+01	1.855E+01	7.318E+00	8.495E+00
45	3.112E+01	3.632E+01	1.854E+01	2.163E+01	1.231E+01	1.437E+01	6.576E+00	7.674E+00	3.343E+00	3.901E+00	1.531E+00	1.787E+00
60	1.068E+01	1.187E+01	6.361E+00	7.066E+00	4.225E+00	4.692E+00	2.257E+00	2.505E+00	1.147E+00	1.273E+00	5.254E+00	5.830E+00
75	4.860E+00	4.856E+00	2.895E+00	2.886E+00	1.923E+00	1.915E+00	1.027E+00	1.022E+00	5.220E+00	5.191E+00	2.391E+00	2.377E+00
90	2.670E+00	2.247E+00	1.590E+00	1.333E+00	1.056E+00	8.835E+00	5.642E+00	4.709E+00	2.868E+00	2.391E+00	1.314E+00	1.094E+00
120	1.187E+00	5.534E+00	7.067E+00	3.249E+00	4.695E+00	2.143E+00	2.507E+00	1.136E+00	1.275E+00	5.754E+00	5.838E+00	2.630E+00
150	7.668E+01	1.142E+01	4.567E+01	6.385E+00	3.034E+01	4.101E+00	1.620E+01	2.120E+02	8.236E+02	1.057E+02	3.772E+02	4.790E+03
179	6.676E+01	1.719E+02	3.976E+01	6.225E+02	2.641E+01	2.783E+03	1.411E+01	8.096E+04	7.170E+02	2.152E+04	3.284E+02	4.784E+05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	3.235E+06	3.257E+06	1.461E+06	1.471E+06	8.286E+05	8.341E+05	5.329E+05	5.364E+05	2.734E+05	2.753E+05	1.346E+05	1.355E+05
2	2.022E+05	2.048E+05	9.133E+04	9.251E+04	5.179E+04	5.246E+04	3.331E+04	3.374E+04	1.709E+04	1.731E+04	8.412E+03	8.520E+03
3	3.996E+04	4.074E+04	1.805E+04	1.840E+04	1.023E+04	1.043E+04	6.582E+03	6.711E+03	3.377E+03	3.443E+03	1.662E+03	1.694E+03
4	1.265E+04	1.298E+04	5.712E+03	5.861E+03	3.239E+03	3.324E+03	2.083E+03	2.138E+03	1.069E+03	1.097E+03	5.260E+02	5.398E+02
6	2.501E+03	2.600E+03	1.129E+03	1.174E+03	6.405E+02	6.658E+02	4.119E+02	4.282E+02	2.114E+02	2.197E+02	1.040E+02	1.081E+02
8	7.924E+02	8.343E+02	3.578E+02	3.768E+02	2.029E+02	2.137E+02	1.305E+02	1.374E+02	6.697E+01	7.052E+01	3.296E+01	3.470E+01
10	3.252E+02	3.466E+02	1.468E+02	1.565E+02	8.328E+01	8.877E+01	5.356E+01	5.710E+01	2.748E+01	2.930E+01	1.352E+01	1.442E+01
15	6.464E+01	7.090E+01	2.919E+01	3.202E+01	1.655E+01	1.816E+01	1.065E+01	1.168E+01	5.463E+00	5.993E+00	2.689E+00	2.949E+00
20	2.063E+01	2.319E+01	9.319E+00	1.047E+01	5.285E+00	5.939E+00	3.399E+00	3.820E+00	1.744E+00	1.960E+00	8.583E+00	9.645E+00
30	4.181E+00	4.854E+00	1.888E+00	2.192E+00	1.071E+00	1.243E+00	6.887E+01	7.998E+01	3.534E+01	4.103E+01	1.739E+01	2.019E+01
45	8.748E+01	1.021E+00	3.951E+01	4.610E+01	2.240E+01	2.614E+01	1.441E+01	1.682E+01	7.394E+02	8.628E+02	3.639E+02	4.245E+02
60	3.002E+01	3.331E+01	1.356E+01	1.594E+01	7.688E+02	8.530E+02	4.945E+02	5.486E+02	2.537E+02	2.815E+02	1.249E+02	1.385E+02
75	1.366E+01	1.358E+01	6.169E+02	6.132E+02	3.499E+02	3.477E+02	2.250E+02	2.236E+02	1.155E+02	1.148E+02	5.682E+03	5.647E+03
90	7.505E+02	6.252E+02	3.389E+02	2.823E+02	1.922E+02	1.601E+02	1.236E+02	1.029E+02	6.343E+03	5.282E+03	3.121E+03	2.599E+03
120	3.335E+02	1.501E+02	1.506E+02	6.776E+02	8.542E+03	3.842E+03	5.494E+03	2.471E+03	2.819E+03	1.268E+03	1.387E+03	6.238E+04
150	2.155E+02	2.726E+03	9.733E+03	1.227E+03	5.520E+03	4.953E+04	3.550E+03	4.470E+04	1.872E+03	2.293E+04	8.965E+04	1.128E+04
179	1.876E+02	1.680E+05	8.474E+03	4.102E+06	4.806E+03	1.621E+06	3.091E+03	8.306E+07	1.586E+03	3.307E+07	7.805E+04	1.376E+07

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	3.582E+14	3.584E+14	1.594E+14	1.594E+14	8.972E+13	8.978E+13	3.995E+13	3.998E+13	2.252E+13	2.253E+13	1.444E+13	1.445E+13
2	2.239E+13	2.240E+13	9.961E+12	9.967E+12	5.609E+12	5.612E+12	2.498E+12	2.499E+12	1.408E+12	1.409E+12	9.026E+11	9.033E+11
3	4.424E+12	4.427E+12	1.968E+12	1.969E+12	1.108E+12	1.109E+12	4.935E+11	4.939E+11	2.781E+11	2.783E+11	1.783E+11	1.785E+11
4	1.400E+12	1.401E+12	6.229E+11	6.234E+11	3.507E+11	3.510E+11	1.562E+11	1.563E+11	8.803E+10	8.811E+10	5.645E+10	5.651E+10
6	2.769E+11	2.771E+11	1.232E+11	1.233E+11	6.935E+10	6.942E+10	3.088E+10	3.091E+10	1.741E+10	1.743E+10	1.116E+10	1.118E+10
8	8.773E+10	8.780E+10	3.903E+10	3.907E+10	2.198E+10	2.199E+10	9.784E+09	9.799E+09	5.515E+09	5.523E+09	3.537E+09	3.541E+09
10	3.600E+10	3.603E+10	1.602E+10	1.603E+10	9.018E+09	9.026E+09	4.006E+09	4.022E+09	2.263E+09	2.266E+09	1.451E+09	1.453E+09
15	7.156E+09	7.164E+09	3.184E+09	3.187E+09	1.793E+09	1.796E+09	7.983E+08	7.991E+08	4.499E+08	4.508E+08	2.885E+08	2.894E+08
20	2.285E+09	2.286E+09	1.016E+09	1.018E+09	5.723E+08	5.729E+08	2.548E+08	2.553E+08	1.436E+08	1.442E+08	9.209E+07	9.254E+07
30	4.629E+08	4.637E+08	2.059E+08	2.060E+08	1.160E+08	1.162E+08	5.164E+07	5.191E+07	2.910E+07	2.923E+07	1.866E+07	1.871E+07
45	9.686E+07	9.694E+07	4.309E+07	4.332E+07	2.426E+07	2.438E+07	1.080E+07	1.080E+07	6.089E+06	6.070E+06	3.904E+06	3.893E+06
60	3.324E+07	3.346E+07	1.479E+07	1.480E+07	8.325E+06	8.287E+06	3.707E+06	3.680E+06	2.089E+06	2.082E+06	1.340E+06	1.344E+06
75	1.513E+07	1.506E+07	6.729E+06	6.639E+06	3.789E+06	3.717E+06	1.687E+06	1.680E+06	9.508E+05	9.588E+05	6.077E+05	6.222E+05
90	8.309E+06	8.116E+06	3.696E+06	3.632E+06	2.081E+06	2.068E+06	9.268E+05	9.409E+05	5.223E+05	5.398E+05	3.349E+05	3.510E+05
120	3.693E+06	3.801E+06	1.643E+06	1.736E+06	9.250E+05	9.951E+05	4.119E+05	4.535E+05	2.322E+05	2.593E+05	1.489E+05	1.679E+05
150	2.386E+06	2.766E+06	1.062E+06	1.249E+06	5.977E+05	7.096E+05	2.662E+05	3.194E+05	1.500E+05	1.810E+05	9.619E+04	1.164E+05
179	2.078E+06	2.530E+06	9.243E+05	1.136E+06	5.204E+05	6.428E+05	2.317E+05	2.878E+05	1.306E+05	1.629E+05	8.375E+04	1.042E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	7.395E+12	7.401E+12	3.645E+12	3.648E+12	1.635E+12	1.637E+12	9.284E+11	9.294E+11	4.202E+11	4.208E+11	2.406E+11	2.410E+11
2	4.623E+11	4.627E+11	2.278E+11	2.281E+11	1.022E+11	1.023E+11	5.803E+10	5.813E+10	2.627E+10	2.632E+10	1.504E+10	1.508E+10
3	9.134E+10	9.144E+10	4.501E+10	4.507E+10	2.020E+10	2.023E+10	1.147E+10	1.149E+10	5.190E+09	5.205E+09	2.971E+09	2.982E+09
4	2.891E+10	2.895E+10	1.425E+10	1.427E+10	6.392E+09	6.407E+09	3.629E+09	3.639E+09	1.643E+09	1.648E+09	9.405E+08	9.445E+08
6	5.710E+09	5.725E+09	2.817E+09	2.824E+09	1.264E+09	1.268E+09	7.176E+08	7.202E+08	3.248E+08	3.263E+08	1.860E+08	1.876E+08
8	1.811E+09	1.815E+09	8.926E+08	8.955E+08	4.005E+08	4.020E+08	2.274E+08	2.283E+08	1.029E+08	1.035E+08	5.892E+07	5.938E+07
10	7.433E+08	7.454E+08	3.663E+08	3.677E+08	1.643E+08	1.650E+08	9.331E+07	9.371E+07	4.223E+07	4.251E+07	2.418E+07	2.442E+07
15	1.478E+08	1.484E+08	7.282E+07	7.311E+07	3.267E+07	3.279E+07	1.855E+07	1.865E+07	8.395E+06	8.490E+06	4.807E+06	4.892E+06
20	4.717E+07	4.736E+07	2.325E+07	2.331E+07	1.043E+07	1.047E+07	5.921E+06	5.971E+06	2.680E+06	2.730E+06	1.534E+06	1.578E+06
30	9.558E+06	9.561E+06	4.710E+06	4.721E+06	2.113E+06	2.137E+06	1.200E+06	1.226E+06	5.430E+05	5.646E+05	3.109E+05	3.278E+05
45	2.000E+06	2.005E+06	9.855E+05	1.000E+06	4.422E+05	4.576E+05	2.510E+05	2.640E+05	1.136E+05	1.223E+05	6.505E+04	7.113E+04
60	6.862E+05	6.984E+05	3.382E+05	3.510E+05	1.517E+05	1.614E+05	8.614E+04	9.320E+04	3.899E+04	4.314E+04	2.212E+04	2.504E+04
75	3.123E+05	3.251E+05	1.539E+05	1.638E+05	6.905E+04	7.525E+04	3.920E+04	4.337E+04	1.774E+04	1.997E+04	1.016E+04	1.154E+04
90	1.715E+05	1.836E+05	8.454E+04	9.232E+04	3.793E+04	4.223E+04	2.154E+04	2.423E+04	9.747E+03	1.107E+04	5.581E+03	6.349E+03
120	7.624E+04	8.709E+04	3.757E+04	4.330E+04	1.686E+04	1.950E+04	9.571E+03	1.105E+04	4.332E+03	4.938E+03	2.480E+03	2.782E+03
150	4.927E+04	5.970E+04	2.428E+04	2.933E+04	1.089E+04	1.301E+04	6.185E+03	7.279E+03	2.799E+03	3.191E+03	1.603E+03	1.767E+03
179	4.289E+04	5.323E+04	2.114E+04	2.602E+04	9.448E+03	1.147E+04	5.385E+03	6.389E+03	2.437E+03	2.778E+03	1.305E+03	1.529E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	1.566E+11	1.569E+11	8.261E+10	8.280E+10	4.241E+10	4.252E+10	2.022E+10	2.028E+10	1.210E+10	1.215E+10	5.980E+09	6.008E+09
2	9.792E+09	9.821E+09	5.164E+09	5.183E+09	2.651E+09	2.664E+09	1.264E+09	1.272E+09	7.565E+08	7.621E+08	3.738E+08	3.771E+08
3	1.935E+09	1.942E+09	1.020E+09	1.026E+09	5.237E+08	5.274E+08	2.497E+08	2.520E+08	1.495E+08	1.517E+08	7.385E+07	7.485E+07
4	6.124E+08	6.155E+08	3.229E+08	3.252E+08	1.658E+08	1.673E+08	7.903E+07	8.003E+07	4.731E+07	4.802E+07	2.338E+07	2.380E+07
6	1.211E+08	1.220E+08	6.386E+07	6.453E+07	3.278E+07	3.326E+07	1.563E+07	1.594E+07	9.355E+06	9.574E+06	4.622E+06	4.752E+06
8	3.837E+07	3.875E+07	2.023E+07	2.053E+07	1.039E+07	1.060E+07	4.951E+06	5.087E+06	2.964E+06	3.060E+06	1.465E+06	1.521E+06
10	1.574E+07	1.595E+07	8.303E+06	8.465E+06	4.262E+06	4.377E+06	2.032E+06	2.104E+06	1.216E+06	1.267E+06	6.010E+05	6.303E+05
15	3.130E+06	3.204E+06	1.651E+06	1.706E+06	8.472E+05	8.850E+05	4.039E+05	4.269E+05	2.418E+05	2.575E+05	1.195E+05	1.284E+05
20	9.991E+05	1.035E+06	5.269E+05	5.530E+05	2.705E+05	2.876E+05	1.289E+05	1.391E+05	7.719E+04	8.399E+04	3.814E+04	4.195E+04
30	2.024E+05	2.157E+05	1.068E+05	1.156E+05	5.480E+04	6.028E+04	2.613E+04	2.919E+04	1.564E+04	1.765E+04	7.728E+03	8.816E+03
45	4.236E+04	4.686E+04	2.234E+04	2.510E+04	1.147E+04	1.307E+04	5.466E+03	6.311E+03	3.273E+03	3.804E+03	1.617E+03	1.892E+03
60	1.453E+04	1.646E+04	7.665E+03	8.777E+03	3.935E+03	4.542E+03	1.876E+03	2.174E+03	1.123E+03	1.301E+03	5.548E+02	6.408E+02
75	6.615E+03	7.549E+03	3.488E+03	3.994E+03	1.791E+03	2.045E+03	8.536E+02	9.657E+02	5.110E+02	5.718E+02	2.525E+02	2.770E+02
90	3.634E+03	4.127E+03	1.916E+03	2.159E+03	9.837E+02	1.090E+03	4.689E+02	5.052E+02	2.807E+02	2.946E+02	1.387E+02	1.395E+02
120	1.615E+03	1.779E+03	8.517E+02	9.048E+02	4.372E+02	4.404E+02	2.084E+02	1.937E+02	1.248E+02	1.081E+02	6.165E+01	4.764E+01
150	1.044E+03	1.114E+03	5.503E+02	5.510E+02	2.825E+02	2.584E+02	1.347E+02	1.074E+02	8.062E+01	5.684E+01	3.983E+01	2.271E+01
179	9.086E+02	9.571E+02	4.792E+02	4.681E+02	2.460E+02	2.140E+02	1.173E+02	8.741E+01	7.019E+01	4.504E+01	3.468E+01	1.702E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	3.668E+09	3.687E+09	2.524E+09	2.538E+09	1.443E+09	1.452E+09	7.986E+08	8.036E+08	4.041E+08	4.067E+08	2.468E+08	2.484E+08
2	2.293E+08	2.316E+08	1.578E+08	1.594E+08	9.022E+07	9.125E+07	4.992E+07	5.052E+07	2.526E+07	2.558E+07	1.543E+07	1.563E+07
3	4.530E+07	4.598E+07	3.117E+07	3.167E+07	1.783E+07	1.813E+07	9.863E+06	1.004E+07	4.991E+06	5.085E+06	3.048E+06	3.107E+06
4	1.434E+07	1.463E+07	9.866E+06	1.008E+07	5.842E+06	5.773E+06	3.122E+06	3.198E+06	1.580E+06	1.620E+06	9.649E+05	9.898E+05
6	2.835E+06	2.923E+06	1.951E+06	2.015E+06	1.116E+06	1.155E+06	6.173E+05	6.402E+05	3.124E+05	3.244E+05	1.908E+05	1.983E+05
8	8.984E+05	9.363E+05	6.182E+05	6.457E+05	3.535E+05	3.704E+05	1.956E+05	2.054E+05	9.897E+04	1.041E+05	6.045E+04	6.363E+04
10	3.687E+05	3.883E+05	2.537E+05	2.680E+05	1.451E+05	1.538E+05	8.026E+04	8.530E+04	4.061E+04	4.325E+04	2.481E+04	2.644E+04
15	7.329E+04	7.923E+04	5.043E+04	5.472E+04	2.884E+04	3.143E+04	1.595E+04	1.745E+04	8.074E+03	8.851E+03	4.931E+03	5.412E+03
20	2.340E+04	2.590E+04	1.610E+04	1.789E+04	9.206E+03	1.028E+04	5.093E+03	5.710E+03	2.577E+03	2.897E+03	1.574E+03	1.772E+03
30	4.741E+03	5.442E+03	3.262E+03	3.759E+03	1.865E+03	2.140E+03	1.032E+03	1.199E+03	5.222E+02	6.081E+02	3.190E+02	3.718E+02
45	9.919E+02	1.164E+03	6.825E+02	8.021E+02	3.903E+02	4.593E+02	2.159E+02	2.543E+02	1.093E+02	1.287E+02	6.674E+01	7.861E+01
60	3.404E+02	3.915E+02	2.342E+02	2.684E+02	1.339E+02	1.527E+02	7.410E+01	8.404E+01	3.750E+01	4.235E+01	2.290E+01	2.562E+01
75	1.549E+02	1.674E+02	1.066E+02	1.138E+02	6.095E+01	6.403E+01	3.372E+01	3.493E+01	1.706E+01	1.748E+01	1.042E+01	1.062E+01
90	8.509E+01	8.288E+01	5.855E+01	5.567E+01	3.348E+01	3.080E+01	1.852E+01	1.656E+01	9.374E+00	8.189E+00	5.725E+00	4.947E+00
120	3.782E+01	2.677E+01	2.602E+01	1.721E+01	1.488E+01	8.928E+00	8.233E+00	4.524E+00	4.166E+00	2.125E+00	2.545E+00	1.251E+00
150	2.444E+01	1.168E+01	1.681E+01	6.923E+00	9.615E+00	3.131E+00	5.320E+00	1.357E+00	2.692E+00	5.381E+01	1.644E+00	2.866E+01
179	2.128E+01	8.252E+00	1.464E+01	4.602E+00	8.371E+00	1.831E+00	4.632E+00	6.498E-01	2.344E+00	1.856E-01	1.432E+00	7.275E-02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	1.211E+08	1.219E+08	7.211E+07	7.259E+07	4.790E+07	4.822E+07	2.558E+07	2.575E+07	1.300E+07	1.309E+07	5.957E+06	5.996E+06
2	7.569E+06	7.666E+06	4.508E+06	4.566E+06	2.994E+06	3.033E+06	1.599E+06	1.620E+06	8.129E+05	8.235E+05	3.723E+05	3.772E+05
3	1.495E+06	1.525E+06	8.906E+05	9.081E+05	5.916E+05	6.033E+05	3.160E+05	3.222E+05	1.606E+05	1.638E+05	7.357E+04	7.502E+04
4	4.733E+05	4.857E+05	2.819E+05	2.893E+05	1.873E+05	1.922E+05	1.000E+05	1.027E+05	5.084E+04	5.219E+04	2.329E+04	2.390E+04
6	9.359E+04	9.731E+04	5.574E+04	5.797E+04	3.703E+04	3.851E+04	1.978E+04	2.057E+04	1.005E+04	1.046E+04	4.604E+03	4.789E+03
8	2.964E+04	3.124E+04	1.766E+04	1.861E+04	1.173E+04	1.239E+04	6.266E+03	6.603E+03	3.185E+03	3.357E+03	1.459E+03	1.538E+03
10	1.217E+04	1.298E+04	7.248E+03	7.733E+03	4.815E+03	5.138E+03	2.571E+03	2.744E+03	1.307E+03	1.395E+03	5.987E+02	6.390E+02
15	2.419E+03	2.657E+03	1.441E+03	1.583E+03	9.571E+02	1.052E+03	5.111E+02	5.619E+02	2.598E+02	2.857E+02	1.190E+02	1.309E+02
20	7.722E+02	8.700E+02	4.499E+02	5.184E+02	3.055E+02	3.444E+02	1.632E+02	1.840E+02	8.294E+01	9.353E+01	3.799E+01	4.284E+01
30	1.565E+02	1.826E+02	9.319E+01	1.088E+02	6.191E+01	7.227E+01	3.306E+01	3.860E+01	1.681E+01	1.962E+01	7.698E+00	8.989E+00
45	3.274E+01	3.856E+01	1.950E+01	2.297E+01	1.295E+01	1.526E+01	6.918E+00	8.148E+00	3.516E+00	4.142E+00	1.611E+00	1.897E+00
60	1.123E+01	1.264E+01	6.691E+00	7.524E+00	4.445E+00	4.996E+00	2.374E+00	2.667E+00	1.207E+00	1.356E+00	5.527E+01	6.208E+01
75	5.113E+00	5.183E+00	3.045E+00	3.081E+00	2.023E+00	2.044E+00	1.080E+00	1.091E+00	5.491E-01	5.542E-01	2.515E-01	2.538E-01
90	2.809E+00	2.403E+00	1.673E+00	1.426E+00	1.111E+00	9.451E-01	5.935E-01	5.038E-01	3.017E-01	2.558E-01	1.382E-01	1.171E-01
120	1.248E+00	5.935E-01	7.434E-01	3.486E-01	4.939E-01	2.299E-01	2.638E-01	1.219E-01	1.341E-01	6.174E-02	6.141E-02	2.822E-02
150	8.066E-01	1.226E-01	4.804E-01	6.856E-02	3.191E-01	4.405E-02	1.704E-01	2.278E-02	8.663E-02	1.136E-02	3.968E-02	5.149E-03
179	7.023E-01	1.830E-02	4.183E-01	6.624E-03	2.778E-01	2.962E-03	1.484E-01	8.616E-04	7.543E-02	2.291E-04	3.455E-02	5.096E-05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	3.403E+06	3.426E+06	1.537E+06	1.547E+06	8.716E+05	8.774E+05	5.606E+05	5.643E+05	2.876E+05	2.896E+05	1.416E+05	1.425E+05
2	2.127E+05	2.155E+05	9.607E+04	9.733E+04	5.448E+04	5.520E+04	3.504E+04	3.550E+04	1.798E+04	1.822E+04	8.849E+03	8.964E+03
3	4.203E+04	4.286E+04	1.898E+04	1.936E+04	1.076E+04	1.098E+04	6.924E+03	7.061E+03	3.553E+03	3.623E+03	1.748E+03	1.783E+03
4	1.330E+04	1.366E+04	6.008E+03	6.168E+03	3.407E+03	3.498E+03	2.191E+03	2.250E+03	1.124E+03	1.154E+03	5.534E+02	5.681E+02
6	2.631E+03	2.737E+03	1.188E+03	1.236E+03	6.737E+02	7.009E+02	4.333E+02	4.508E+02	2.223E+02	2.313E+02	1.094E+02	1.138E+02
8	8.335E+02	8.785E+02	3.764E+02	3.968E+02	2.135E+02	2.250E+02	1.373E+02	1.447E+02	7.045E+01	7.426E+01	3.467E+01	3.654E+01
10	3.428E+02	3.651E+02	1.545E+02	1.649E+02	8.760E+01	9.351E+01	5.634E+01	6.014E+01	2.891E+01	3.086E+01	1.423E+01	1.519E+01
15	6.799E+01	7.476E+01	3.071E+01	3.376E+01	1.741E+01	1.915E+01	1.120E+01	1.232E+01	5.747E+00	6.319E+00	2.828E+00	3.110E+00
20	2.171E+01	2.448E+01	9.803E+00	1.106E+01	5.355E+00	6.270E+00	3.575E+00	4.032E+00	1.835E+00	2.069E+00	9.028E+01	1.010E+00
30	4.398E+00	5.136E+00	1.986E+00	2.320E+00	1.126E+00	1.315E+00	7.245E-01	8.460E-01	3.717E-01	4.341E-01	1.829E-01	2.136E-01
45	9.202E-01	1.084E+00	4.156E-01	4.895E-01	2.397E-01	2.776E-01	1.516E-01	1.785E-01	7.778E-02	9.161E-02	3.828E-02	4.508E-02
60	3.158E-01	3.547E-01	1.426E-01	1.602E-01	8.087E-02	9.049E-02	5.202E-02	5.842E-02	2.669E-02	2.998E-02	1.313E-02	1.475E-02
75	1.437E-01	1.450E-01	6.490E-02	6.546E-02	3.680E-02	3.712E-02	2.367E-02	2.388E-02	1.215E-02	1.225E-02	5.977E-03	6.029E-03
90	7.894E-02	6.688E-02	3.565E-02	3.020E-02	2.022E-02	1.712E-02	1.300E-02	1.101E-02	6.673E-03	5.651E-03	3.284E-03	2.781E-03
120	3.509E-02	1.611E-02	1.585E-02	7.271E-03	8.986E-03	4.123E-03	5.780E-03	2.651E-03	2.965E-03	1.380E-03	1.459E-03	6.694E-04
150	2.267E-02	2.930E-03	1.024E-02	1.319E-03	5.807E-03	7.475E-04	3.735E-03	4.805E-04	1.916E-03	2.465E-04	9.430E-04	1.213E-04
179	1.974E-02	1.790E-05	8.914E-03	4.378E-06	5.055E-03	1.733E-06	3.251E-03	8.889E-07	1.668E-03	3.545E-07	8.210E-04	1.477E-07

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	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DE6	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	3.763E+14	3.765E+14	1.674E+14	1.675E+14	9.427E+13	9.432E+13	4.198E+13	4.200E+13	2.366E+13	2.367E+13	1.517E+13	1.518E+13
2	2.352E+13	2.354E+13	1.047E+13	1.047E+13	5.892E+12	5.896E+12	2.624E+12	2.626E+12	1.479E+12	1.480E+12	9.483E+11	9.490E+11
3	4.648E+12	4.651E+12	2.068E+12	2.069E+12	1.164E+12	1.165E+12	5.184E+11	5.189E+11	2.922E+11	2.924E+11	1.874E+11	1.875E+11
4	1.471E+12	1.472E+12	6.545E+11	6.550E+11	3.685E+11	3.688E+11	1.641E+11	1.642E+11	9.248E+10	9.257E+10	5.930E+10	5.937E+10
6	2.909E+11	2.911E+11	1.294E+11	1.295E+11	7.286E+10	7.293E+10	3.245E+10	3.248E+10	1.829E+10	1.831E+10	1.173E+10	1.174E+10
8	9.217E+10	9.224E+10	4.100E+10	4.104E+10	2.309E+10	2.311E+10	1.028E+10	1.029E+10	5.794E+09	5.803E+09	3.716E+09	3.721E+09
10	3.782E+10	3.785E+10	1.683E+10	1.684E+10	9.474E+09	9.483E+09	4.219E+09	4.226E+09	2.378E+09	2.381E+09	1.525E+09	1.527E+09
15	7.519E+09	7.527E+09	3.345E+09	3.348E+09	1.883E+09	1.887E+09	8.387E+08	8.396E+08	4.727E+08	4.735E+08	3.031E+08	3.040E+08
20	2.400E+09	2.402E+09	1.068E+09	1.070E+09	6.012E+08	6.020E+08	2.677E+08	2.682E+08	1.509E+08	1.515E+08	9.676E+07	9.723E+07
30	4.863E+08	4.873E+08	2.164E+08	2.164E+08	1.218E+08	1.221E+08	5.425E+07	5.454E+07	3.057E+07	3.072E+07	1.961E+07	1.967E+07
45	1.018E+08	1.018E+08	4.527E+07	4.551E+07	2.549E+07	2.563E+07	1.135E+07	1.136E+07	6.397E+06	6.379E+06	4.102E+06	4.088E+06
60	3.492E+07	3.517E+07	1.553E+07	1.557E+07	8.747E+06	8.713E+06	3.895E+06	3.864E+06	2.195E+06	2.184E+06	1.408E+06	1.409E+06
75	1.589E+07	1.584E+07	7.069E+06	6.975E+06	3.980E+06	3.952E+06	1.773E+06	1.761E+06	9.990E+05	1.005E+06	6.406E+05	6.523E+05
90	8.730E+06	8.517E+06	3.884E+06	3.806E+06	2.187E+06	2.166E+06	9.737E+05	9.860E+05	5.488E+05	5.660E+05	3.519E+05	3.684E+05
120	3.880E+06	3.984E+06	1.726E+06	1.822E+06	9.718E+05	1.046E+06	4.328E+05	4.773E+05	2.439E+05	2.732E+05	1.564E+05	1.771E+05
150	2.507E+06	2.922E+06	1.115E+06	1.320E+06	6.280E+05	7.506E+05	2.796E+05	3.381E+05	1.576E+05	1.918E+05	1.011E+05	1.234E+05
179	2.183E+06	2.681E+06	9.710E+05	1.204E+06	5.467E+05	6.818E+05	2.435E+05	3.055E+05	1.372E+05	1.726E+05	8.799E+04	1.107E+05
DE6	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	7.779E+12	7.775E+12	3.829E+12	3.832E+12	1.718E+12	1.720E+12	9.754E+11	9.764E+11	4.415E+11	4.421E+11	2.528E+11	2.532E+11
2	4.857E+11	4.861E+11	2.394E+11	2.396E+11	1.074E+11	1.075E+11	6.097E+10	6.107E+10	2.760E+10	2.766E+10	1.580E+10	1.584E+10
3	9.596E+10	9.607E+10	4.729E+10	4.735E+10	2.122E+10	2.126E+10	1.205E+10	1.207E+10	5.452E+09	5.468E+09	3.122E+09	3.133E+09
4	3.037E+10	3.041E+10	1.497E+10	1.499E+10	6.716E+09	6.731E+09	3.813E+09	3.824E+09	1.726E+09	1.732E+09	9.881E+08	9.923E+08
6	6.006E+09	6.015E+09	2.960E+09	2.966E+09	1.328E+09	1.332E+09	7.539E+08	7.567E+08	3.412E+08	3.428E+08	1.954E+08	1.965E+08
8	1.903E+09	1.907E+09	9.378E+08	9.408E+08	4.208E+08	4.224E+08	2.389E+08	2.399E+08	1.081E+08	1.087E+08	6.191E+07	6.237E+07
10	7.809E+08	7.830E+08	3.848E+08	3.864E+08	1.727E+08	1.734E+08	9.803E+07	9.846E+07	4.437E+07	4.466E+07	2.540E+07	2.565E+07
15	1.552E+08	1.559E+08	7.650E+07	7.683E+07	3.432E+07	3.445E+07	1.949E+07	1.959E+07	8.820E+06	8.914E+06	5.050E+06	5.136E+06
20	4.956E+07	4.978E+07	2.442E+07	2.449E+07	1.096E+07	1.100E+07	6.221E+06	6.269E+06	2.816E+06	2.866E+06	1.612E+06	1.656E+06
30	1.004E+07	1.005E+07	4.949E+06	4.957E+06	2.220E+06	2.242E+06	1.261E+06	1.286E+06	5.705E+05	5.927E+05	3.267E+05	3.462E+05
45	2.101E+06	2.104E+06	1.035E+06	1.049E+06	4.645E+05	4.801E+05	2.637E+05	2.771E+05	1.194E+05	1.285E+05	6.835E+04	7.483E+04
60	7.209E+05	7.324E+05	3.553E+05	3.682E+05	1.594E+05	1.695E+05	9.050E+04	9.798E+04	4.096E+04	4.542E+04	2.345E+04	2.640E+04
75	3.281E+05	3.411E+05	1.617E+05	1.720E+05	7.254E+04	7.916E+04	4.119E+04	4.568E+04	1.864E+04	2.107E+04	1.067E+04	1.219E+04
90	1.802E+05	1.929E+05	8.882E+04	9.713E+04	3.985E+04	4.450E+04	2.263E+04	2.537E+04	1.024E+04	1.170E+04	5.863E+03	6.716E+03
120	8.010E+04	9.194E+04	3.948E+04	4.577E+04	1.771E+04	2.044E+04	1.006E+04	1.170E+04	4.551E+03	5.236E+03	2.606E+03	2.952E+03
150	5.176E+04	6.333E+04	2.551E+04	3.113E+04	1.144E+04	1.382E+04	6.498E+03	7.735E+03	2.641E+03	3.392E+03	1.684E+03	1.880E+03
179	4.507E+04	5.656E+04	2.221E+04	2.767E+04	9.964E+03	1.220E+04	5.657E+03	6.798E+03	2.561E+03	2.957E+03	1.466E+03	1.627E+03
DE6	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	1.646E+11	1.649E+11	8.679E+10	8.698E+10	4.455E+10	4.467E+10	2.124E+10	2.131E+10	1.272E+10	1.277E+10	6.282E+09	6.312E+09
2	1.029E+10	1.032E+10	5.425E+09	5.446E+09	2.785E+09	2.798E+09	1.328E+09	1.336E+09	7.948E+08	8.007E+08	3.927E+08	3.963E+08
3	2.033E+09	2.041E+09	1.072E+09	1.078E+09	5.503E+08	5.511E+08	2.623E+08	2.648E+08	1.570E+08	1.584E+08	7.759E+07	7.864E+07
4	6.434E+08	6.466E+08	3.393E+08	3.416E+08	1.742E+08	1.758E+08	8.303E+07	8.408E+07	4.971E+07	5.046E+07	2.450E+07	2.501E+07
6	1.272E+08	1.281E+08	6.709E+07	6.779E+07	3.444E+07	3.494E+07	1.642E+07	1.674E+07	9.828E+06	1.006E+07	4.856E+06	4.994E+06
8	4.031E+07	4.071E+07	2.126E+07	2.157E+07	1.091E+07	1.113E+07	5.202E+06	5.345E+06	3.114E+06	3.215E+06	1.558E+06	1.588E+06
10	1.654E+07	1.676E+07	8.723E+06	8.891E+06	4.478E+06	4.597E+06	2.135E+06	2.211E+06	1.278E+06	1.331E+06	6.314E+05	6.626E+05
15	3.288E+06	3.364E+06	1.734E+06	1.792E+06	8.901E+05	9.299E+05	4.243E+05	4.487E+05	2.540E+05	2.708E+05	1.355E+05	1.351E+05
20	1.050E+06	1.087E+06	5.536E+05	5.809E+05	2.842E+05	3.023E+05	1.355E+05	1.463E+05	8.110E+04	8.839E+04	4.007E+04	4.171E+04
30	2.127E+05	2.267E+05	1.122E+05	1.216E+05	5.758E+04	6.345E+04	2.745E+04	3.076E+04	1.643E+04	1.860E+04	8.119E+03	9.301E+03
45	4.450E+04	4.933E+04	2.347E+04	2.646E+04	1.205E+04	1.379E+04	5.743E+03	6.667E+03	3.438E+03	4.021E+03	1.699E+03	2.062E+03
60	1.527E+04	1.736E+04	8.053E+03	9.271E+03	4.134E+03	4.803E+03	1.971E+03	2.302E+03	1.180E+03	1.379E+03	5.829E+02	6.797E+02
75	6.950E+03	7.979E+03	3.665E+03	4.226E+03	1.891E+03	2.167E+03	8.969E+02	1.024E+03	5.369E+02	6.071E+02	2.653E+02	2.945E+02
90	3.818E+03	4.369E+03	2.013E+03	2.288E+03	1.033E+03	1.157E+03	4.927E+02	5.366E+02	2.949E+02	3.132E+02	1.457E+02	1.485E+02
120	1.697E+03	1.889E+03	8.948E+02	9.611E+02	4.593E+02	4.682E+02	2.190E+02	2.361E+02	1.311E+02	1.151E+02	4.777E+01	5.077E+01
150	1.096E+03	1.185E+03	5.782E+02	5.862E+02	2.968E+02	2.750E+02	1.415E+02	1.143E+02	8.471E+01	6.050E+01	4.185E+01	2.418E+01
179	9.546E+02	1.019E+03	5.034E+02	4.983E+02	2.584E+02	2.299E+02	1.232E+02	9.302E+01	7.375E+01	4.792E+01	3.644E+01	1.811E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	3.854E+09	3.874E+09	2.652E+09	2.667E+09	1.516E+09	1.526E+09	8.390E+08	8.443E+08	4.246E+08	4.274E+08	2.593E+08	2.611E+08
2	2.409E+08	2.433E+08	1.658E+08	1.675E+08	9.479E+07	9.588E+07	5.244E+07	5.308E+07	2.654E+07	2.688E+07	1.621E+07	1.642E+07
3	4.760E+07	4.832E+07	3.275E+07	3.328E+07	1.873E+07	1.905E+07	1.036E+07	1.055E+07	5.244E+06	5.344E+06	3.203E+06	3.265E+06
4	1.507E+07	1.537E+07	1.037E+07	1.059E+07	5.928E+06	6.067E+06	3.280E+06	3.361E+06	1.660E+06	1.702E+06	1.014E+06	1.040E+06
6	2.979E+06	3.072E+06	2.050E+06	2.118E+06	1.172E+06	1.214E+06	6.485E+05	6.730E+05	3.282E+05	3.410E+05	2.004E+05	2.084E+05
8	9.439E+05	9.842E+05	6.495E+05	6.789E+05	3.714E+05	3.894E+05	2.055E+05	2.159E+05	1.040E+05	1.095E+05	6.351E+04	6.691E+04
10	3.873E+05	4.083E+05	2.665E+05	2.818E+05	1.525E+05	1.617E+05	8.432E+04	8.972E+04	4.267E+04	4.549E+04	2.606E+04	2.781E+04
15	7.700E+04	8.337E+04	5.298E+04	5.759E+04	3.030E+04	3.308E+04	1.676E+04	1.837E+04	8.482E+03	9.319E+03	5.181E+03	5.699E+03
20	2.458E+04	2.728E+04	1.691E+04	1.885E+04	9.672E+03	1.043E+04	5.351E+03	6.018E+03	2.708E+03	3.054E+03	1.654E+03	1.868E+03
30	4.981E+03	5.744E+03	3.427E+03	3.969E+03	1.960E+03	2.241E+03	1.084E+03	1.266E+03	5.487E+02	6.425E+02	3.351E+02	3.929E+02
45	1.042E+03	1.232E+03	7.170E+02	8.494E+02	4.100E+02	4.866E+02	2.269E+02	2.695E+02	1.148E+02	1.364E+02	7.012E+01	8.334E+01
60	3.576E+02	4.155E+02	2.460E+02	2.850E+02	1.407E+02	1.622E+02	7.785E+01	8.933E+01	3.939E+01	4.503E+01	2.406E+01	2.745E+01
75	1.627E+02	1.780E+02	1.120E+02	1.211E+02	6.403E+01	6.819E+01	3.543E+01	3.721E+01	1.793E+01	1.863E+01	1.095E+01	1.132E+01
90	8.940E+01	8.829E+01	6.151E+01	5.933E+01	3.518E+01	3.285E+01	1.946E+01	1.768E+01	9.848E+00	8.745E+00	6.015E+00	5.285E+00
120	3.973E+01	2.855E+01	2.734E+01	1.836E+01	1.563E+01	9.519E+00	8.650E+00	4.377E+00	4.377E+00	2.274E+00	2.673E+00	1.340E+00
150	2.567E+01	1.244E+01	1.766E+01	7.378E+00	1.010E+01	3.340E+00	5.589E+00	1.449E+00	2.828E+00	5.755E+01	1.728E+00	3.069E+01
179	2.235E+01	8.776E+00	1.538E+01	4.894E+00	8.795E+00	1.947E+00	4.866E+00	6.909E+01	2.462E+00	1.973E+01	1.504E+00	7.734E+02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	1.272E+08	1.281E+08	7.576E+07	7.627E+07	5.033E+07	5.067E+07	2.688E+07	2.706E+07	1.366E+07	1.376E+07	6.258E+06	6.300E+06
2	7.952E+06	8.056E+06	4.736E+06	4.799E+06	3.146E+06	3.188E+06	1.680E+06	1.703E+06	8.541E+05	8.655E+05	3.912E+05	3.964E+05
3	1.571E+06	1.602E+06	9.357E+05	9.544E+05	6.216E+05	6.340E+05	3.320E+05	3.386E+05	1.687E+05	1.721E+05	7.729E+04	7.884E+04
4	4.973E+05	5.105E+05	2.962E+05	3.041E+05	1.967E+05	2.020E+05	1.051E+05	1.079E+05	5.341E+04	5.485E+04	2.446E+04	2.512E+04
6	9.833E+04	1.023E+05	5.866E+04	6.094E+04	3.890E+04	4.049E+04	2.078E+04	2.162E+04	1.056E+04	1.099E+04	4.837E+03	5.035E+03
8	3.116E+04	3.285E+04	1.856E+04	1.957E+04	1.233E+04	1.300E+04	6.583E+03	6.944E+03	3.346E+03	3.530E+03	1.533E+03	1.617E+03
10	1.278E+04	1.365E+04	7.614E+03	8.135E+03	5.058E+03	5.405E+03	2.701E+03	2.887E+03	1.373E+03	1.468E+03	6.290E+02	6.723E+02
15	2.542E+03	2.798E+03	1.514E+03	1.667E+03	1.006E+03	1.108E+03	5.370E+02	5.918E+02	2.730E+02	3.004E+02	1.250E+02	1.378E+02
20	8.113E+02	9.172E+02	4.832E+02	5.465E+02	3.210E+02	3.631E+02	1.714E+02	1.940E+02	8.714E+01	9.861E+01	3.991E+01	4.517E+01
30	1.644E+02	1.929E+02	9.791E+01	1.149E+02	6.504E+01	7.637E+01	3.474E+01	4.080E+01	1.766E+01	2.074E+01	8.088E+00	9.500E+00
45	3.440E+01	4.089E+01	2.049E+01	2.435E+01	1.361E+01	1.618E+01	7.268E+00	8.640E+00	3.694E+00	4.392E+00	1.692E+00	2.012E+00
60	1.180E+01	1.344E+01	7.030E+00	8.002E+00	4.670E+00	5.314E+00	2.494E+00	2.837E+00	1.268E+00	1.442E+00	5.807E+00	6.603E+01
75	5.371E+00	5.526E+00	3.199E+00	3.285E+00	2.125E+00	2.140E+00	1.135E+00	1.163E+00	5.769E+01	5.910E+01	2.643E+01	2.706E+01
90	2.951E+00	2.568E+00	1.757E+00	1.523E+00	1.167E+00	1.010E+00	6.235E+01	5.383E+01	3.169E+01	2.733E+01	1.452E+01	1.251E+01
120	1.311E+00	6.360E+01	7.811E+01	3.739E+01	5.189E+01	2.464E+01	2.771E+01	1.307E+01	1.409E+01	6.619E+02	6.452E+02	3.025E+02
150	8.474E+01	1.314E+01	5.047E+01	7.355E+02	3.353E+01	4.778E+02	1.791E+01	2.446E+02	9.102E+02	1.220E+02	4.169E+02	5.529E+03
179	7.378E+01	1.945E+02	4.394E+01	7.043E+03	2.919E+01	3.149E+03	1.559E+01	1.162E+04	7.925E+02	2.437E+04	3.630E+02	5.423E+05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	3.576E+06	3.600E+06	1.615E+06	1.626E+06	9.157E+05	9.219E+05	5.890E+05	5.930E+05	3.022E+05	3.043E+05	1.487E+05	1.497E+05
2	2.235E+05	2.265E+05	1.009E+05	1.023E+05	5.724E+04	5.801E+04	3.682E+04	3.731E+04	1.889E+04	1.914E+04	9.296E+03	9.421E+03
3	4.416E+04	4.505E+04	1.994E+04	2.034E+04	1.131E+04	1.154E+04	7.274E+03	7.420E+03	3.733E+03	3.808E+03	1.837E+03	1.874E+03
4	1.398E+04	1.435E+04	6.312E+03	6.482E+03	3.580E+03	3.676E+03	2.302E+03	2.364E+03	1.181E+03	1.213E+03	5.814E+02	5.970E+02
6	2.764E+03	2.877E+03	1.248E+03	1.299E+03	7.078E+02	7.368E+02	4.553E+02	4.739E+02	2.336E+02	2.432E+02	1.150E+02	1.197E+02
8	8.757E+02	9.239E+02	3.955E+02	4.172E+02	2.243E+02	2.366E+02	1.443E+02	1.522E+02	7.402E+01	7.809E+01	3.643E+01	3.843E+01
10	3.594E+02	3.841E+02	1.623E+02	1.735E+02	9.204E+01	9.838E+01	5.919E+01	6.327E+01	3.037E+01	3.247E+01	1.495E+01	1.598E+01
15	7.144E+01	7.874E+01	3.226E+01	3.556E+01	1.830E+01	2.017E+01	1.177E+01	1.297E+01	6.038E+00	6.655E+00	2.971E+00	3.275E+00
20	2.281E+01	2.581E+01	1.030E+01	1.166E+01	5.841E+00	6.610E+00	3.756E+00	4.251E+00	1.928E+00	2.181E+00	9.485E+01	1.073E+00
30	4.621E+00	5.428E+00	2.087E+00	2.451E+00	1.183E+00	1.390E+00	7.612E+01	8.941E+01	3.906E+01	4.588E+01	1.922E+01	2.258E+01
45	9.668E+01	1.149E+00	4.366E+01	5.191E+01	2.476E+01	2.944E+01	1.593E+01	1.893E+01	8.172E+02	9.714E+02	4.021E+02	4.781E+02
60	3.318E+01	3.773E+01	1.498E+01	1.704E+01	8.497E+02	9.661E+02	5.465E+02	6.214E+02	2.804E+02	3.189E+02	1.380E+02	1.569E+02
75	1.510E+01	1.546E+01	6.818E+02	6.981E+02	3.867E+02	3.959E+02	2.487E+02	2.546E+02	1.276E+02	1.306E+02	6.280E+03	6.429E+03
90	8.294E+02	7.147E+02	3.746E+02	3.227E+02	2.129E+02	1.830E+02	1.366E+02	1.177E+02	7.010E+03	6.039E+03	3.450E+03	2.972E+03
120	3.686E+02	1.727E+02	1.665E+02	7.795E+03	9.441E+03	4.420E+03	6.072E+03	2.842E+03	3.116E+03	1.458E+03	1.533E+03	7.176E+04
150	2.382E+02	3.147E+03	1.075E+02	1.417E+03	6.100E+03	8.027E+03	3.924E+03	5.161E+04	2.013E+03	2.647E+04	9.908E+04	1.302E+04
179	2.074E+02	1.907E+05	9.366E+03	4.670E+06	5.311E+03	1.864E+06	3.416E+03	9.505E+07	1.753E+03	3.797E+07	8.626E+04	1.584E+07

MO (42)

(BARN/STERRADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV			
1	3.949E+14	3.951E+14	1.757E+14	1.758E+14	9.892E+13	9.898E+13	4.405E+13	4.408E+13	2.483E+13	2.484E+13	1.592E+13	1.593E+13		
2	2.469E+13	2.470E+13	1.098E+13	1.099E+13	6.183E+12	6.187E+12	2.754E+12	2.755E+12	1.552E+12	1.553E+12	9.951E+11	9.959E+11		
3	4.877E+12	4.880E+12	2.170E+12	2.171E+12	1.222E+12	1.223E+12	5.440E+11	5.445E+11	3.066E+11	3.069E+11	1.968E+11	1.968E+11		
4	1.544E+12	1.545E+12	6.868E+11	6.873E+11	3.867E+11	3.870E+11	1.722E+11	1.724E+11	9.705E+10	9.714E+10	6.223E+10	6.230E+10		
6	3.053E+11	3.055E+11	1.358E+11	1.359E+11	7.664E+10	7.663E+10	3.405E+10	3.408E+10	1.919E+10	1.922E+10	1.231E+10	1.232E+10		
8	9.672E+10	9.680E+10	4.303E+10	4.307E+10	2.423E+10	2.425E+10	1.079E+10	1.080E+10	6.080E+09	6.090E+09	3.899E+09	3.905E+09		
10	3.696E+10	3.972E+10	1.766E+10	1.768E+10	9.942E+09	9.951E+09	4.427E+09	4.434E+09	2.495E+09	2.499E+09	1.600E+09	1.602E+09		
15	7.890E+09	7.899E+09	3.510E+09	3.513E+09	1.976E+09	1.980E+09	8.801E+08	8.812E+08	4.960E+08	4.968E+08	3.181E+08	3.190E+08		
20	2.519E+09	2.520E+09	1.121E+09	1.123E+09	6.309E+08	6.318E+08	2.810E+08	2.813E+08	1.583E+08	1.589E+08	1.015E+08	1.020E+08		
30	5.104E+08	5.115E+08	2.270E+08	2.271E+08	1.278E+08	1.280E+08	5.693E+07	5.723E+07	3.208E+07	3.226E+07	2.057E+07	2.065E+07		
45	1.068E+08	1.068E+08	4.751E+07	4.774E+07	2.675E+07	2.691E+07	1.191E+07	1.193E+07	6.713E+06	6.695E+06	4.305E+06	4.289E+06		
60	3.664E+07	3.691E+07	1.630E+07	1.636E+07	9.178E+06	9.151E+06	4.087E+06	4.053E+06	2.304E+06	2.289E+06	1.477E+06	1.475E+06		
75	1.668E+07	1.665E+07	7.419E+06	7.321E+06	4.177E+06	4.111E+06	1.860E+06	1.844E+06	1.048E+06	1.052E+06	6.722E+05	6.829E+05		
90	9.161E+06	8.931E+06	4.075E+06	3.984E+06	2.295E+06	2.266E+06	1.022E+06	1.032E+06	5.759E+05	5.927E+05	3.693E+05	3.860E+05		
120	4.071E+06	4.170E+06	1.811E+06	1.910E+06	1.020E+06	1.097E+06	4.541E+05	5.017E+05	2.559E+05	2.875E+05	1.641E+05	1.865E+05		
150	2.631E+06	3.082E+06	1.170E+06	1.394E+06	6.590E+05	7.931E+05	2.935E+05	3.576E+05	1.654E+05	2.029E+05	1.061E+05	1.306E+05		
179	2.290E+06	2.837E+06	1.019E+06	1.275E+06	5.737E+05	7.274E+05	2.555E+05	3.239E+05	1.440E+05	1.830E+05	9.233E+04	1.175E+05		
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV			
1	8.153E+12	8.159E+12	4.018E+12	4.021E+12	1.803E+12	1.805E+12	1.024E+12	1.025E+12	4.633E+11	4.639E+11	2.652E+11	2.657E+11		
2	5.097E+11	5.102E+11	2.512E+11	2.514E+11	1.127E+11	1.128E+11	6.398E+10	6.409E+10	2.894E+10	2.902E+10	1.658E+10	1.662E+10		
3	1.007E+11	1.008E+11	4.963E+10	4.969E+10	2.227E+10	2.230E+10	1.264E+10	1.267E+10	5.722E+09	5.738E+09	3.276E+09	3.287E+09		
4	3.187E+10	3.191E+10	1.571E+10	1.573E+10	7.047E+09	7.063E+09	4.001E+09	4.013E+09	1.811E+09	1.817E+09	1.037E+09	1.041E+09		
6	6.302E+09	6.311E+09	3.106E+09	3.113E+09	1.393E+09	1.398E+09	7.912E+08	7.942E+08	3.581E+08	3.597E+08	2.050E+08	2.062E+08		
8	1.997E+09	2.001E+09	9.841E+08	9.872E+08	4.415E+08	4.433E+08	2.507E+08	2.518E+08	1.135E+08	1.141E+08	6.498E+07	6.544E+07		
10	8.195E+08	8.216E+08	4.038E+08	4.055E+08	1.812E+08	1.820E+08	1.029E+08	1.033E+08	4.656E+07	4.685E+07	2.666E+07	2.691E+07		
15	1.629E+08	1.637E+08	8.028E+07	8.065E+07	3.602E+07	3.516E+07	2.045E+07	2.055E+07	9.256E+06	9.349E+06	5.299E+06	5.386E+06		
20	5.200E+07	5.226E+07	2.563E+07	2.571E+07	1.150E+07	1.154E+07	6.528E+06	6.574E+06	2.955E+06	3.005E+06	1.692E+06	1.737E+06		
30	1.054E+07	1.055E+07	5.193E+06	5.199E+06	2.330E+06	2.350E+06	1.323E+06	1.348E+06	5.987E+05	6.214E+05	3.428E+05	3.611E+05		
45	2.205E+06	2.235E+06	1.087E+06	1.099E+06	4.875E+05	5.031E+05	2.768E+05	2.906E+05	1.253E+05	1.349E+05	7.172E+04	7.862E+04		
60	7.565E+05	7.670E+05	3.728E+05	3.858E+05	1.673E+05	1.778E+05	9.497E+04	1.029E+05	4.299E+04	4.776E+04	2.461E+04	2.779E+04		
75	3.443E+05	3.574E+05	1.697E+05	1.804E+05	7.612E+04	8.316E+04	4.322E+04	4.804E+04	1.956E+04	2.220E+04	1.120E+04	1.285E+04		
90	1.891E+05	2.024E+05	9.321E+04	1.021E+05	4.182E+04	4.684E+04	2.374E+04	2.694E+04	1.075E+04	1.235E+04	6.153E+03	7.096E+03		
120	8.406E+04	9.695E+04	4.143E+04	4.832E+04	1.859E+04	2.182E+04	1.055E+04	1.238E+04	4.776E+03	5.546E+03	2.735E+03	3.128E+03		
150	5.432E+04	6.710E+04	2.677E+04	3.301E+04	1.201E+04	1.466E+04	6.819E+03	8.212E+03	3.086E+03	3.603E+03	1.767E+03	1.977E+03		
179	4.729E+04	6.005E+04	2.331E+04	2.939E+04	1.046E+04	1.297E+04	5.937E+03	7.227E+03	2.687E+03	3.149E+03	1.538E+03	1.731E+03		
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV			
1	1.727E+11	1.730E+11	9.108E+10	9.128E+10	4.675E+10	4.688E+10	2.229E+10	2.236E+10	1.334E+10	1.340E+10	6.592E+09	6.623E+09		
2	1.080E+10	1.083E+10	5.693E+09	5.715E+09	2.922E+09	2.937E+09	1.393E+09	1.402E+09	8.341E+08	8.402E+08	4.121E+08	4.158E+08		
3	2.133E+09	2.142E+09	1.125E+09	1.131E+09	5.774E+08	5.815E+08	2.753E+08	2.779E+08	1.648E+08	1.666E+08	8.142E+07	8.253E+07		
4	6.751E+08	6.785E+08	3.561E+08	3.585E+08	1.828E+08	1.845E+08	6.713E+07	6.823E+07	5.216E+07	5.295E+07	2.577E+07	2.625E+07		
6	1.335E+08	1.344E+08	7.040E+07	7.112E+07	3.614E+07	3.666E+07	1.723E+07	1.757E+07	1.031E+07	1.056E+07	5.098E+06	5.241E+06		
8	4.230E+07	4.271E+07	2.231E+07	2.262E+07	1.145E+07	1.168E+07	5.459E+06	5.609E+06	3.268E+06	3.374E+06	1.615E+06	1.678E+06		
10	1.736E+07	1.758E+07	9.154E+06	9.326E+06	4.699E+06	4.824E+06	2.240E+06	2.320E+06	1.341E+06	1.397E+06	6.623E+05	6.957E+05		
15	3.451E+06	3.528E+06	1.820E+06	1.879E+06	9.341E+05	9.758E+05	4.453E+05	4.711E+05	2.666E+05	2.844E+05	1.317E+05	1.420E+05		
20	1.102E+06	1.140E+06	5.809E+05	6.099E+05	2.982E+05	3.174E+05	1.422E+05	1.537E+05	8.510E+04	9.289E+04	4.265E+04	4.645E+04		
30	2.232E+05	2.379E+05	1.177E+05	1.277E+05	6.042E+04	6.669E+04	2.880E+04	3.236E+04	1.724E+04	1.958E+04	8.520E+03	9.800E+03		
45	4.670E+04	5.186E+04	2.463E+04	2.785E+04	1.264E+04	1.453E+04	6.027E+03	7.034E+03	3.608E+03	4.246E+03	1.783E+03	2.115E+03		
60	1.602E+04	1.829E+04	8.451E+03	9.780E+03	4.338E+03	5.073E+03	2.068E+03	2.435E+03	1.238E+03	1.460E+03	6.117E+02	7.201E+02		
75	7.293E+03	8.423E+03	3.846E+03	4.467E+03	1.974E+03	2.293E+03	9.411E+02	1.085E+03	5.634E+02	6.438E+02	2.784E+02	3.126E+02		
90	4.006E+03	4.620E+03	2.113E+03	2.423E+03	1.085E+03	1.226E+03	5.170E+02	5.694E+02	3.095E+02	3.327E+02	1.529E+02	1.579E+02		
120	1.781E+03	2.003E+03	9.390E+02	1.020E+03	4.820E+02	4.972E+02	2.298E+02	2.190E+02	1.376E+02	1.224E+02	6.797E+01	5.405E+01		
150	1.151E+03	1.259E+03	6.068E+02	6.231E+02	3.115E+02	2.993E+02	1.485E+02	1.215E+02	8.889E+01	6.346E+01	4.392E+01	2.572E+01		
179	1.002E+03	1.084E+03	5.283E+02	5.300E+02	2.712E+02	2.445E+02	1.293E+02	9.819E+01	7.739E+01	5.095E+01	3.224E+01	1.924E+01		

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-00MEV		1.5E-00MEV		2.0E-00MEV	
1	4.044E+09	4.066E+09	2.783E+09	2.798E+09	1.591E+09	1.601E+09	8.804E+08	8.860E+08	4.455E+08	4.485E+08	2.721E+08	2.746E+08
2	2.52E+08	2.553E+08	1.739E+08	1.758E+08	9.947E+07	1.006E+08	5.503E+07	5.571E+07	2.785E+07	2.821E+07	1.701E+07	1.723E+07
3	4.995E+07	5.071E+07	3.437E+07	3.493E+07	1.965E+07	2.000E+07	1.087E+07	1.108E+07	5.502E+06	5.609E+06	3.361E+06	3.427E+06
4	1.581E+07	1.613E+07	1.088E+07	1.112E+07	6.221E+06	6.368E+06	3.442E+06	3.528E+06	1.742E+06	1.787E+06	1.064E+06	1.092E+06
5	3.12E+06	3.225E+06	2.151E+06	2.223E+06	1.230E+06	1.275E+06	6.805E+05	7.066E+05	3.444E+05	3.581E+05	2.103E+05	2.188E+05
6	9.905E+05	1.033E+06	6.815E+05	7.128E+05	3.897E+05	4.089E+05	2.156E+05	2.268E+05	1.091E+05	1.150E+05	6.665E+04	7.028E+04
7	4.065E+05	4.288E+05	2.797E+05	2.959E+05	1.599E+05	1.699E+05	8.848E+04	9.425E+04	4.478E+04	4.780E+04	2.735E+04	2.922E+04
8	8.080E+04	8.762E+04	5.559E+04	6.053E+04	3.179E+04	3.478E+04	1.759E+04	1.931E+04	8.901E+03	9.801E+03	5.437E+03	5.993E+03
9	2.579E+04	2.869E+04	1.775E+04	1.983E+04	1.015E+04	1.140E+04	5.615E+03	6.334E+03	2.842E+03	3.215E+03	1.736E+03	1.966E+03
10	5.227E+03	6.055E+03	3.596E+03	4.185E+03	2.056E+03	2.406E+03	1.136E+03	1.336E+03	5.758E+02	6.780E+02	3.517E+02	4.146E+02
11	1.094E+03	1.303E+03	7.524E+02	8.985E+02	4.303E+02	5.149E+02	2.381E+02	2.853E+02	1.205E+02	1.445E+02	7.358E+01	8.826E+01
12	3.752E+02	4.405E+02	2.582E+02	3.023E+02	1.476E+02	1.751E+02	8.169E+01	9.484E+01	4.134E+01	4.782E+01	2.525E+01	2.915E+01
13	1.708E+02	1.891E+02	1.175E+02	1.287E+02	6.719E+01	7.252E+01	3.718E+01	3.961E+01	1.881E+01	1.983E+01	1.149E+01	1.205E+01
14	9.384E+01	9.395E+01	6.455E+01	6.317E+01	3.691E+01	3.501E+01	2.047E+01	1.885E+01	1.033E+01	9.330E+00	6.312E+00	5.639E+00
15	4.169E+01	3.042E+01	2.869E+01	1.958E+01	1.641E+01	1.018E+01	9.072E+00	5.169E+00	4.593E+00	2.432E+00	2.805E+00	1.433E+00
16	2.694E+01	1.324E+01	1.854E+01	7.855E+00	1.060E+01	3.549E+00	5.865E+00	1.546E+00	2.968E+00	6.151E+00	1.813E+00	3.283E+00
17	2.346E+01	9.327E+00	1.614E+01	5.201E+00	9.229E+00	2.048E+00	5.106E+00	7.340E+01	2.584E+00	2.096E+01	1.578E+00	8.216E+02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	1.335E+08	1.344E+08	7.950E+07	8.005E+07	5.281E+07	5.318E+07	2.821E+07	2.840E+07	1.434E+07	1.444E+07	6.567E+06	6.613E+06
2	8.344E+06	8.455E+06	4.970E+06	5.036E+06	3.301E+06	3.346E+06	1.763E+06	1.787E+06	8.962E+05	9.083E+05	4.105E+05	4.160E+05
3	1.647E+06	1.682E+06	9.819E+05	1.002E+06	6.523E+05	6.655E+05	3.484E+05	3.594E+05	1.771E+05	1.807E+05	8.111E+04	8.276E+04
4	5.218E+05	5.359E+05	3.108E+05	3.192E+05	2.065E+05	2.121E+05	1.103E+05	1.133E+05	5.605E+04	5.757E+04	2.567E+04	2.637E+04
5	1.038E+05	1.074E+05	6.145E+04	6.399E+04	4.082E+04	4.251E+04	2.180E+04	2.271E+04	1.108E+04	1.154E+04	5.076E+03	5.287E+03
6	3.269E+04	3.450E+04	1.947E+04	2.055E+04	1.294E+04	1.366E+04	6.908E+03	7.294E+03	3.512E+03	3.708E+03	1.808E+03	1.898E+03
7	1.342E+04	1.435E+04	7.990E+03	8.548E+03	5.308E+03	5.679E+03	2.835E+03	3.034E+03	1.441E+03	1.542E+03	6.800E+02	7.064E+02
8	2.667E+03	2.943E+03	1.588E+03	1.754E+03	1.055E+03	1.145E+03	6.635E+02	6.224E+02	2.865E+02	3.164E+02	1.312E+02	1.449E+02
9	8.14E+02	9.657E+02	5.071E+02	5.754E+02	3.369E+02	3.833E+02	1.799E+02	2.042E+02	9.145E+01	1.038E+02	4.189E+01	4.756E+01
10	1.725E+02	2.036E+02	1.027E+02	1.213E+02	6.825E+01	8.041E+01	3.645E+01	4.306E+01	1.853E+01	2.189E+01	8.847E+00	1.003E+01
11	3.610E+01	4.330E+01	2.150E+01	2.579E+01	1.428E+01	1.713E+01	7.627E+00	9.151E+00	3.877E+00	4.652E+00	1.776E+00	2.131E+00
12	1.239E+01	1.428E+01	7.377E+00	8.501E+00	4.900E+00	5.645E+00	2.617E+00	3.014E+00	1.330E+00	1.532E+00	6.093E+00	7.016E+00
13	5.637E+00	5.886E+00	3.357E+00	3.499E+00	2.230E+00	2.352E+00	1.191E+00	1.239E+00	6.054E+00	6.295E+00	2.773E+00	2.883E+00
14	3.097E+00	2.741E+00	1.844E+00	1.626E+00	1.225E+00	1.078E+00	6.543E+00	5.747E+01	3.326E+00	2.918E+01	1.523E+01	1.336E+01
15	1.376E+00	6.808E+01	8.197E+01	4.000E+01	5.445E+01	2.639E+01	2.908E+01	1.400E+01	1.478E+01	7.039E+02	6.770E+02	3.240E+02
16	6.893E+01	1.407E+01	5.296E+01	7.883E+02	3.510E+01	5.049E+02	1.879E+01	2.623E+02	9.551E+02	1.309E+02	4.375E+02	5.932E+03
17	7.742E+01	2.066E+02	4.611E+01	7.482E+03	3.063E+01	3.345E+03	1.636E+01	9.735E+04	6.316E+02	2.590E+04	3.809E+02	5.767E+05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	3.752E+06	3.778E+06	1.694E+06	1.706E+06	9.609E+05	9.677E+05	6.181E+05	6.224E+05	3.171E+05	3.193E+05	1.561E+05	1.572E+05
2	2.348E+05	2.377E+05	1.059E+05	1.073E+05	6.007E+04	6.088E+04	3.863E+04	3.915E+04	1.982E+04	2.009E+04	9.756E+03	9.887E+03
3	4.634E+04	4.728E+04	2.093E+04	2.135E+04	1.187E+04	1.211E+04	7.633E+03	7.789E+03	3.917E+03	3.997E+03	1.928E+03	1.967E+03
4	1.467E+04	1.507E+04	6.642E+03	6.805E+03	3.757E+03	3.869E+03	2.416E+03	2.482E+03	1.240E+03	1.274E+03	6.101E+02	6.267E+02
5	2.900E+03	3.021E+03	1.310E+03	1.364E+03	7.428E+02	7.747E+02	4.777E+02	4.976E+02	2.451E+02	2.553E+02	1.206E+02	1.256E+02
6	9.190E+02	9.704E+02	4.150E+02	4.382E+02	2.354E+02	2.485E+02	1.514E+02	1.598E+02	7.767E+01	8.202E+01	3.822E+01	4.036E+01
7	3.771E+02	4.036E+02	1.703E+02	1.823E+02	9.658E+01	1.034E+02	6.212E+01	6.648E+01	3.187E+01	3.411E+01	1.569E+01	1.679E+01
8	7.496E+01	8.261E+01	3.385E+01	3.740E+01	1.920E+01	2.121E+01	1.235E+01	1.364E+01	6.336E+00	7.000E+00	3.118E+00	3.445E+00
9	2.393E+01	2.718E+01	1.081E+01	1.227E+01	6.129E+00	6.960E+00	3.942E+00	4.476E+00	2.023E+00	2.297E+00	9.954E+00	1.130E+00
10	4.869E+00	5.729E+00	2.190E+00	2.587E+00	1.242E+00	1.467E+00	7.987E+01	9.437E+01	4.098E+01	4.842E+01	2.017E+01	2.383E+01
11	1.015E+00	1.217E+00	4.582E+01	5.498E+01	2.598E+01	3.118E+01	1.671E+01	2.005E+01	8.575E+02	1.029E+01	4.220E+02	5.063E+02
12	3.481E+01	4.008E+01	1.572E+01	1.810E+01	8.916E+02	1.026E+01	5.735E+02	6.602E+02	2.943E+02	3.388E+02	1.448E+02	1.667E+02
13	1.584E+01	1.647E+01	7.155E+02	7.436E+02	4.058E+02	4.217E+02	2.610E+02	2.712E+02	1.339E+02	1.392E+02	6.590E+03	6.849E+03
14	8.704E+02	7.630E+02	3.931E+02	3.445E+02	2.229E+02	1.954E+02	1.434E+02	1.257E+02	7.356E+03	6.448E+03	3.620E+03	3.173E+03
15	3.868E+02	1.850E+02	1.747E+02	8.349E+03	9.907E+03	4.744E+03	6.372E+03	3.044E+03	3.270E+03	1.562E+03	1.609E+03	7.686E+04
16	2.500E+02	3.376E+03	1.129E+02	1.520E+03	6.402E+03	8.613E+03	4.172E+03	5.537E+04	2.113E+03	2.840E+04	1.040E+03	1.397E+04
17	2.176E+02	2.029E+05	9.828E+03	4.976E+06	5.574E+03	1.975E+06	3.585E+03	1.016E+06	1.839E+03	4.064E+07	9.052E+04	1.698E+07

TC (43)

(BARNS/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	4.139E+14	4.142E+14	1.842E+14	1.843E+14	1.037E+14	1.037E+14	4.617E+13	4.620E+13	2.602E+13	2.604E+13	1.669E+13	1.670E+13
2	2.588E+13	2.589E+13	1.151E+13	1.152E+13	6.481E+12	6.486E+12	2.886E+12	2.888E+12	1.627E+12	1.628E+12	1.043E+12	1.044E+12
3	5.112E+12	5.115E+12	2.274E+12	2.276E+12	1.281E+12	1.282E+12	5.703E+11	5.707E+11	3.214E+11	3.217E+11	2.061E+11	2.063E+11
4	1.618E+12	1.619E+12	7.199E+11	7.204E+11	4.053E+11	4.056E+11	1.805E+11	1.807E+11	1.017E+11	1.018E+11	6.523E+10	6.530E+10
6	3.200E+11	3.202E+11	1.423E+11	1.425E+11	9.015E+10	9.022E+10	3.569E+10	3.572E+10	2.011E+10	2.014E+10	1.290E+10	1.292E+10
8	1.014E+11	1.015E+11	4.510E+10	4.514E+10	2.540E+10	2.542E+10	1.131E+10	1.132E+10	6.373E+09	6.384E+09	4.087E+09	4.093E+09
10	4.160E+10	4.163E+10	1.851E+10	1.853E+10	1.042E+10	1.043E+10	4.641E+09	4.648E+09	2.615E+09	2.619E+09	1.677E+09	1.679E+09
15	8.270E+09	8.280E+09	3.679E+09	3.682E+09	2.072E+09	2.075E+09	9.225E+08	9.238E+08	5.199E+08	5.208E+08	3.334E+08	3.343E+08
20	2.640E+09	2.642E+09	1.175E+09	1.177E+09	6.613E+08	6.624E+08	2.945E+08	2.948E+08	1.660E+08	1.665E+08	1.064E+08	1.070E+08
30	5.350E+08	5.361E+08	2.380E+08	2.381E+08	1.340E+08	1.341E+08	5.967E+07	5.999E+07	3.363E+07	3.383E+07	2.156E+07	2.166E+07
45	1.119E+08	1.119E+08	4.979E+07	5.003E+07	2.804E+07	2.822E+07	1.249E+07	1.251E+07	7.036E+06	7.021E+06	4.512E+06	4.495E+06
60	3.841E+07	3.869E+07	1.709E+07	1.717E+07	9.621E+06	9.602E+06	4.284E+06	4.247E+06	2.415E+06	2.397E+06	1.548E+06	1.545E+06
75	1.748E+07	1.748E+07	7.776E+06	7.677E+06	4.378E+06	4.306E+06	1.950E+06	1.929E+06	1.099E+06	1.100E+06	7.046E+05	7.141E+05
90	9.602E+06	9.356E+06	4.272E+06	4.166E+06	2.405E+06	2.368E+06	1.071E+06	1.078E+06	6.036E+05	6.198E+05	3.871E+05	4.039E+05
120	4.268E+06	4.358E+06	1.899E+06	1.999E+06	1.069E+06	1.150E+06	4.760E+05	5.266E+05	2.683E+05	3.021E+05	1.730E+05	1.962E+05
150	2.758E+06	3.247E+06	1.227E+06	1.470E+06	6.907E+05	8.371E+05	3.076E+05	3.778E+05	1.734E+05	2.145E+05	1.112E+05	1.382E+05
179	2.401E+06	3.000E+06	1.068E+06	1.349E+06	6.014E+05	7.649E+05	2.678E+05	3.430E+05	1.509E+05	1.940E+05	9.678E+04	1.245E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	8.546E+12	8.553E+12	4.212E+12	4.215E+12	1.890E+12	1.891E+12	1.073E+12	1.074E+12	4.856E+11	4.862E+11	2.780E+11	2.785E+11
2	5.342E+11	5.347E+11	2.633E+11	2.636E+11	1.181E+11	1.183E+11	6.706E+10	6.717E+10	3.035E+10	3.042E+10	1.738E+10	1.742E+10
3	1.056E+11	1.057E+11	5.202E+10	5.209E+10	2.334E+10	2.338E+10	1.325E+10	1.328E+10	5.997E+09	6.015E+09	3.434E+09	3.446E+09
4	3.341E+10	3.345E+10	1.646E+10	1.649E+10	7.387E+09	7.404E+09	4.194E+09	4.206E+09	1.898E+09	1.905E+09	1.087E+09	1.091E+09
6	6.608E+09	6.616E+09	3.256E+09	3.262E+09	1.461E+09	1.466E+09	8.293E+08	8.325E+08	3.753E+08	3.771E+08	2.149E+08	2.161E+08
8	2.093E+09	2.097E+09	1.032E+09	1.035E+09	4.628E+08	4.648E+08	2.628E+08	2.639E+08	1.189E+08	1.196E+08	6.809E+07	6.858E+07
10	8.589E+08	8.610E+08	4.233E+08	4.250E+08	1.899E+08	1.908E+08	1.078E+08	1.083E+08	4.880E+07	4.911E+07	2.794E+07	2.819E+07
15	1.707E+08	1.716E+08	8.415E+07	8.457E+07	3.775E+07	3.791E+07	2.143E+07	2.154E+07	9.702E+06	9.795E+06	5.554E+06	5.642E+06
20	5.451E+07	5.480E+07	2.686E+07	2.696E+07	1.205E+07	1.209E+07	6.843E+06	6.887E+06	3.097E+06	3.147E+06	1.773E+06	1.819E+06
30	1.104E+07	1.106E+07	5.443E+06	5.447E+06	2.442E+06	2.461E+06	1.387E+06	1.411E+06	6.276E+05	6.506E+05	3.593E+05	3.782E+05
45	2.311E+06	2.308E+06	1.139E+06	1.150E+06	5.110E+05	5.265E+05	2.901E+05	3.042E+05	1.313E+05	1.414E+05	7.518E+04	8.248E+04
60	7.930E+05	8.023E+05	3.908E+05	4.037E+05	1.753E+05	1.842E+05	9.955E+04	1.079E+05	4.506E+04	5.015E+04	2.580E+04	2.921E+04
75	3.609E+05	3.739E+05	1.778E+05	1.890E+05	7.979E+04	8.724E+04	4.530E+04	5.046E+04	2.050E+04	2.336E+04	1.174E+04	1.354E+04
90	1.982E+05	2.120E+05	9.770E+04	1.071E+05	4.383E+04	4.924E+04	2.489E+04	2.835E+04	1.126E+04	1.301E+04	6.449E+03	7.489E+03
120	8.811E+04	1.021E+05	4.342E+04	5.096E+04	1.948E+04	2.304E+04	1.106E+04	1.308E+04	5.006E+03	5.868E+03	2.866E+03	3.312E+03
150	5.693E+04	7.102E+04	2.806E+04	3.496E+04	1.259E+04	1.554E+04	7.147E+03	8.710E+03	3.235E+03	3.824E+03	1.852E+03	2.120E+03
179	4.957E+04	6.369E+04	2.443E+04	3.119E+04	1.096E+04	1.377E+04	6.223E+03	7.677E+03	2.816E+03	3.341E+03	1.613E+03	1.839E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	1.810E+11	1.814E+11	9.547E+10	9.568E+10	4.901E+10	4.914E+10	2.336E+10	2.344E+10	1.399E+10	1.404E+10	6.910E+09	6.944E+09
2	1.132E+10	1.135E+10	5.968E+09	5.990E+09	3.063E+09	3.078E+09	1.460E+09	1.469E+09	8.742E+08	8.807E+08	4.320E+08	4.359E+08
3	2.236E+09	2.245E+09	1.179E+09	1.185E+09	6.053E+08	6.095E+08	2.885E+08	2.912E+08	1.727E+08	1.747E+08	8.535E+07	8.651E+07
4	7.077E+08	7.112E+08	3.732E+08	3.757E+08	1.916E+08	1.933E+08	9.131E+07	9.248E+07	5.467E+07	5.550E+07	2.701E+07	2.751E+07
6	1.399E+08	1.409E+08	7.379E+07	7.454E+07	3.788E+07	3.842E+07	1.806E+07	1.841E+07	1.081E+07	1.107E+07	5.361E+06	5.495E+06
8	4.434E+07	4.475E+07	2.338E+07	2.371E+07	1.200E+07	1.224E+07	5.722E+06	5.879E+06	3.425E+06	3.537E+06	1.692E+06	1.759E+06
10	1.819E+07	1.842E+07	9.595E+06	9.772E+06	4.925E+06	5.045E+06	2.348E+06	2.432E+06	1.406E+06	1.465E+06	6.945E+05	7.296E+05
15	3.617E+06	3.696E+06	1.907E+06	1.969E+06	7.791E+05	1.023E+06	4.668E+05	4.940E+05	2.794E+05	2.943E+05	1.381E+05	1.490E+05
20	1.155E+06	1.195E+06	6.089E+05	6.387E+05	3.126E+05	3.286E+05	1.490E+05	1.612E+05	8.920E+04	9.751E+04	4.487E+04	4.878E+04
30	2.349E+05	2.493E+05	1.234E+05	1.339E+05	6.333E+04	7.002E+04	3.019E+04	3.401E+04	1.807E+04	2.059E+04	8.930E+03	1.031E+04
45	4.895E+04	5.446E+04	2.581E+04	2.928E+04	1.325E+04	1.530E+04	6.317E+03	7.412E+03	3.742E+03	4.477E+03	1.869E+03	2.233E+03
60	1.680E+04	1.925E+04	8.858E+03	1.030E+04	4.547E+03	5.352E+03	2.168E+03	2.572E+03	1.298E+03	1.543E+03	6.412E+02	7.622E+02
75	7.644E+03	8.880E+03	4.031E+03	4.715E+03	2.069E+03	2.444E+03	9.865E+02	1.149E+03	5.906E+02	6.821E+02	2.918E+02	3.316E+02
90	4.199E+03	4.880E+03	2.215E+03	2.562E+03	1.137E+03	1.298E+03	5.419E+02	6.036E+02	3.244E+02	3.530E+02	1.603E+02	1.677E+02
120	1.866E+03	2.122E+03	9.842E+02	1.081E+03	5.052E+02	5.275E+02	2.409E+02	2.326E+02	1.442E+02	1.301E+02	7.124E+01	5.749E+01
150	1.206E+03	1.337E+03	6.360E+02	6.618E+02	3.255E+02	3.105E+02	1.605E+02	1.291E+02	9.317E+01	6.837E+01	4.603E+01	2.734E+01
179	1.050E+03	1.152E+03	5.537E+02	5.633E+02	2.842E+02	2.598E+02	1.355E+02	1.051E+02	8.112E+01	5.412E+01	4.008E+01	2.044E+01

TC (43)

(BARNs/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	4.239E+09	4.262E+09	2.917E+09	2.933E+09	1.668E+09	1.678E+09	9.228E+08	9.288E+08	4.670E+08	4.701E+08	2.852E+08	2.872E+08
2	2.650E+08	2.677E+08	1.823E+08	1.843E+08	1.043E+08	1.055E+08	5.769E+07	5.840E+07	2.919E+07	2.957E+07	1.783E+07	1.806E+07
3	5.236E+07	5.315E+07	3.692E+07	3.661E+07	2.060E+07	2.096E+07	1.140E+07	1.161E+07	5.768E+06	5.880E+06	3.523E+06	3.593E+06
4	1.657E+07	1.691E+07	1.140E+07	1.165E+07	6.520E+06	6.676E+06	3.608E+06	3.699E+06	1.826E+06	1.874E+06	1.115E+06	1.145E+06
6	3.277E+06	3.381E+06	2.255E+06	2.331E+06	1.285E+06	1.337E+06	7.133E+05	7.409E+05	3.610E+05	3.755E+05	2.205E+05	2.295E+05
8	1.038E+06	1.084E+06	7.144E+05	7.475E+05	4.085E+05	4.289E+05	2.250E+05	2.379E+05	1.144E+05	1.206E+05	6.986E+04	7.373E+04
10	4.260E+05	4.498E+05	2.931E+05	3.104E+05	1.676E+05	1.782E+05	9.275E+04	9.890E+04	4.693E+04	5.016E+04	2.867E+04	3.067E+04
15	8.469E+04	9.198E+04	5.827E+04	6.355E+04	3.332E+04	3.642E+04	1.844E+04	2.029E+04	9.330E+03	1.029E+04	5.699E+03	6.296E+03
20	2.704E+04	3.015E+04	1.860E+04	2.084E+04	1.064E+04	1.199E+04	5.886E+03	6.660E+03	2.578E+03	3.381E+03	1.819E+03	2.068E+03
30	5.478E+03	6.375E+03	3.769E+03	4.407E+03	2.156E+03	2.544E+03	1.193E+03	1.408E+03	6.035E+02	7.146E+02	3.686E+02	4.371E+02
43	1.146E+03	1.376E+03	7.887E+02	9.493E+02	4.510E+02	5.443E+02	2.495E+02	3.016E+02	1.263E+02	1.528E+02	7.713E+01	9.336E+01
60	3.933E+02	4.665E+02	2.706E+02	3.203E+02	1.548E+02	1.855E+02	8.563E+01	1.006E+02	4.333E+01	5.074E+01	2.647E+01	3.094E+01
75	1.790E+02	2.007E+02	1.232E+02	1.367E+02	7.043E+01	7.707E+01	3.897E+01	4.211E+01	1.972E+01	2.109E+01	1.204E+01	1.282E+01
90	9.833E+01	9.988E+01	6.766E+01	6.720E+01	3.869E+01	3.777E+01	2.141E+01	2.008E+01	1.083E+01	9.944E+00	6.616E+00	6.012E+00
120	4.370E+01	3.239E+01	3.007E+01	2.086E+01	1.720E+01	1.086E+01	9.514E+00	5.518E+00	4.814E+00	2.599E+00	2.941E+00	1.532E+00
150	2.824E+01	1.408E+01	1.943E+01	8.357E+00	1.111E+01	3.740E+00	6.148E+00	1.648E+00	3.111E+00	6.568E+01	1.900E+00	3.509E+01
179	2.459E+01	9.905E+00	1.692E+01	5.522E+00	9.674E+00	2.166E+00	5.352E+00	7.793E+01	2.709E+00	2.225E+01	1.654E+00	8.721E+02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	1.399E+08	1.409E+08	8.333E+07	8.392E+07	5.536E+07	5.575E+07	2.957E+07	2.977E+07	1.503E+07	1.513E+07	6.884E+06	6.932E+06
2	8.746E+06	8.864E+06	5.209E+06	5.279E+06	3.460E+06	3.507E+06	1.848E+06	1.873E+06	9.394E+05	9.522E+05	4.303E+05	4.361E+05
3	1.728E+06	1.763E+06	1.029E+06	1.050E+06	6.437E+05	6.477E+05	3.652E+05	3.726E+05	1.856E+05	1.894E+05	8.502E+04	8.676E+04
4	5.470E+05	5.619E+05	3.258E+05	3.347E+05	2.164E+05	2.253E+05	1.156E+05	1.188E+05	5.875E+04	6.037E+04	2.691E+04	2.765E+04
6	1.082E+05	1.127E+05	6.442E+04	6.711E+04	4.279E+04	4.458E+04	2.285E+04	2.381E+04	1.162E+04	1.211E+04	5.321E+03	5.545E+03
8	3.427E+04	3.619E+04	2.041E+04	2.156E+04	1.356E+04	1.433E+04	7.241E+03	7.652E+03	3.681E+03	3.890E+03	1.688E+03	1.782E+03
10	1.406E+04	1.506E+04	8.375E+03	8.970E+03	5.564E+03	5.940E+03	2.971E+03	3.184E+03	1.510E+03	1.618E+03	6.918E+02	7.413E+02
15	2.796E+03	3.092E+03	1.665E+03	1.842E+03	1.106E+03	1.254E+03	5.907E+02	6.539E+02	3.003E+02	3.324E+02	1.375E+02	1.523E+02
20	8.924E+02	1.016E+03	5.315E+02	6.052E+02	3.531E+02	4.021E+02	1.886E+02	2.148E+02	9.585E+01	1.092E+02	4.390E+01	5.002E+01
30	1.808E+02	2.146E+02	1.077E+02	1.279E+02	7.154E+01	8.408E+01	3.821E+01	4.539E+01	1.942E+01	2.308E+01	8.896E+00	1.057E+01
45	3.784E+01	4.531E+01	2.253E+01	2.729E+01	1.497E+01	1.813E+01	7.995E+00	9.682E+00	4.064E+00	4.921E+00	1.861E+00	2.254E+00
60	1.298E+01	1.516E+01	7.732E+00	9.022E+00	5.137E+00	5.991E+00	2.743E+00	3.199E+00	1.394E+00	1.626E+00	6.387E+01	7.446E+01
75	5.908E+00	6.242E+00	3.519E+00	3.723E+00	2.338E+00	2.471E+00	1.248E+00	1.319E+00	6.346E+01	6.699E+01	2.907E+01	3.068E+01
90	3.246E+00	2.923E+00	1.933E+00	1.734E+00	1.284E+00	1.150E+00	6.858E+01	6.129E+01	3.486E+01	3.112E+01	1.597E+01	1.425E+01
120	1.443E+00	7.282E+01	8.591E+01	4.279E+01	5.707E+01	2.853E+01	3.048E+01	1.498E+01	1.549E+01	7.585E+02	7.097E+02	3.467E+02
150	9.321E+01	1.506E+01	5.552E+01	8.442E+02	3.688E+01	5.430E+02	1.970E+01	2.811E+02	1.001E+01	1.403E+02	4.586E+02	6.359E+03
179	8.116E+01	2.193E+02	4.833E+01	7.943E+03	3.211E+01	5.562E+03	1.715E+01	1.034E+03	8.717E+02	2.750E+04	3.992E+02	6.128E+05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	3.933E+06	3.961E+06	1.776E+06	1.789E+06	1.007E+06	1.014E+06	6.478E+05	6.524E+05	3.324E+05	3.348E+05	1.636E+05	1.647E+05
2	2.458E+05	2.492E+05	1.110E+05	1.125E+05	6.296E+04	6.382E+04	4.050E+04	4.105E+04	2.078E+04	2.106E+04	1.023E+04	1.036E+04
3	4.857E+04	4.957E+04	2.194E+04	2.239E+04	1.244E+04	1.270E+04	8.001E+03	8.166E+03	4.106E+03	4.190E+03	2.020E+03	2.062E+03
4	1.537E+04	1.580E+04	6.943E+03	7.135E+03	3.938E+03	4.046E+03	2.533E+03	2.602E+03	1.299E+03	1.335E+03	6.395E+02	6.571E+02
6	3.040E+03	3.168E+03	1.373E+03	1.431E+03	7.786E+02	8.114E+02	5.608E+02	5.219E+02	2.569E+02	2.678E+02	1.264E+02	1.318E+02
8	9.633E+02	1.018E+03	4.350E+02	4.598E+02	2.467E+02	2.607E+02	1.587E+02	1.677E+02	8.142E+01	8.605E+01	4.007E+01	4.235E+01
10	3.953E+02	4.236E+02	1.785E+02	1.913E+02	1.012E+02	1.085E+02	6.511E+01	6.977E+01	3.341E+01	3.580E+01	1.644E+01	1.762E+01
15	7.858E+01	8.700E+01	3.549E+01	3.929E+01	2.012E+01	2.258E+01	1.241E+01	1.433E+01	6.641E+00	7.353E+00	3.268E+00	3.619E+00
20	2.508E+01	2.858E+01	1.133E+01	1.291E+01	6.424E+00	7.350E+00	4.132E+00	4.708E+00	2.120E+00	2.416E+00	1.043E+00	1.189E+00
30	5.083E+00	6.040E+00	2.295E+00	2.728E+00	1.302E+00	1.547E+00	8.372E+01	9.949E+01	4.296E+01	5.105E+01	2.114E+01	2.512E+01
45	1.063E+00	1.288E+00	4.803E+01	5.817E+01	2.724E+01	3.299E+01	1.752E+01	2.122E+01	8.989E+02	1.089E+01	4.423E+02	5.357E+02
60	3.649E+01	4.254E+01	1.643E+01	1.921E+01	9.346E+01	1.089E+01	6.011E+02	7.007E+02	3.084E+02	3.595E+02	1.518E+02	1.769E+02
75	1.661E+01	1.752E+01	7.500E+02	7.914E+02	4.253E+02	4.488E+02	2.736E+02	2.886E+02	1.404E+02	1.481E+02	6.907E+03	7.288E+03
90	9.123E+02	8.138E+02	4.120E+02	3.675E+02	2.337E+02	2.084E+02	1.503E+02	1.340E+02	7.711E+03	6.877E+03	3.795E+03	3.384E+03
120	4.055E+02	1.979E+02	1.831E+02	8.934E+02	1.038E+02	5.065E+02	6.679E+02	3.258E+03	3.427E+03	1.671E+03	1.687E+03	8.225E+04
150	2.620E+02	3.619E+03	1.183E+02	1.630E+03	6.710E+03	9.235E+04	4.316E+03	5.937E+04	2.214E+03	3.045E+04	1.090E+03	1.498E+04
179	2.281E+02	2.157E+05	1.030E+02	5.300E+06	5.842E+03	2.106E+06	3.757E+03	1.084E+06	1.928E+03	4.346E+07	9.488E+04	1.818E+07

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	4.334E+14	4.337E+14	1.928E+14	1.929E+14	1.086E+14	1.086E+14	4.834E+13	4.837E+13	2.725E+13	2.726E+13	1.747E+13	1.748E+13
2	2.709E+13	2.711E+13	1.205E+13	1.206E+13	6.786E+12	6.791E+12	3.022E+12	3.024E+12	1.703E+12	1.705E+12	1.092E+12	1.093E+12
3	5.353E+12	5.356E+12	2.381E+12	2.383E+12	1.341E+12	1.342E+12	5.971E+11	5.976E+11	3.365E+11	3.368E+11	2.158E+11	2.160E+11
4	1.694E+12	1.695E+12	7.538E+11	7.543E+11	4.244E+11	4.247E+11	1.890E+11	1.892E+11	1.065E+11	1.066E+11	6.830E+10	6.837E+10
5	3.350E+11	3.352E+11	1.490E+11	1.492E+11	8.392E+10	8.399E+10	3.737E+10	3.740E+10	2.106E+10	2.109E+10	1.351E+10	1.353E+10
6	1.062E+11	1.062E+11	4.723E+10	4.726E+10	2.659E+10	2.662E+10	1.184E+10	1.185E+10	6.673E+09	6.684E+09	4.279E+09	4.286E+09
7	4.356E+10	4.360E+10	1.938E+10	1.940E+10	1.091E+10	1.092E+10	4.859E+09	4.867E+09	2.738E+09	2.743E+09	1.756E+09	1.759E+09
8	8.659E+09	8.669E+09	3.852E+09	3.855E+09	2.169E+09	2.173E+09	9.659E+08	9.674E+08	5.444E+08	5.451E+08	3.491E+08	3.499E+08
9	2.764E+09	2.767E+09	1.230E+09	1.232E+09	6.924E+08	6.938E+08	3.083E+08	3.087E+08	1.738E+08	1.743E+08	1.114E+08	1.120E+08
10	5.601E+08	5.614E+08	2.492E+08	2.494E+08	1.403E+08	1.404E+08	6.248E+07	6.280E+07	3.521E+07	3.543E+07	2.258E+07	2.269E+07
11	1.172E+08	1.171E+08	5.214E+07	5.235E+07	2.936E+07	2.956E+07	1.307E+07	1.311E+07	7.368E+06	7.356E+06	4.724E+06	4.706E+06
12	4.022E+07	4.050E+07	1.789E+07	1.800E+07	1.007E+07	1.007E+07	4.486E+06	4.447E+06	2.528E+06	2.507E+06	1.621E+06	1.615E+06
13	1.332E+07	1.834E+07	8.142E+06	8.044E+06	4.584E+06	4.506E+06	2.041E+06	2.015E+06	1.151E+06	1.149E+06	7.378E+05	7.458E+05
14	1.005E+07	9.794E+06	4.473E+06	4.352E+06	2.518E+06	2.472E+06	1.121E+06	1.126E+06	6.320E+05	6.473E+05	4.053E+05	4.222E+05
15	4.468E+06	4.349E+06	1.988E+06	2.090E+06	1.119E+06	1.203E+06	4.984E+05	5.521E+05	2.809E+05	3.171E+05	1.801E+05	2.061E+05
16	2.887E+06	3.417E+06	1.285E+06	1.549E+06	7.232E+05	8.886E+05	3.221E+05	3.988E+05	1.815E+05	2.266E+05	1.164E+05	1.460E+05
17	2.514E+06	3.169E+06	1.118E+06	1.426E+06	6.297E+05	8.086E+05	2.804E+05	3.630E+05	1.580E+05	2.053E+05	1.013E+05	1.319E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	8.948E+12	8.955E+12	4.410E+12	4.414E+12	1.979E+12	1.980E+12	1.123E+12	1.125E+12	5.084E+11	5.091E+11	2.911E+11	2.916E+11
2	5.594E+11	5.599E+11	2.757E+11	2.760E+11	1.237E+11	1.238E+11	7.022E+10	7.033E+10	3.178E+10	3.185E+10	1.820E+10	1.824E+10
3	1.105E+11	1.106E+11	5.447E+10	5.454E+10	2.444E+10	2.448E+10	1.387E+10	1.391E+10	6.280E+09	6.298E+09	3.595E+09	3.608E+09
4	3.498E+10	3.503E+10	1.724E+10	1.726E+10	7.735E+09	7.752E+09	4.391E+09	4.404E+09	1.988E+09	1.995E+09	1.138E+09	1.143E+09
5	6.917E+09	6.927E+09	3.409E+09	3.416E+09	1.529E+09	1.534E+09	2.683E+08	2.718E+08	3.930E+08	3.948E+08	2.250E+08	2.263E+08
6	2.192E+09	2.195E+09	1.080E+09	1.083E+09	4.846E+08	4.867E+08	5.751E+08	5.764E+08	1.245E+08	1.252E+08	7.130E+07	7.180E+07
7	8.994E+08	9.014E+08	4.432E+08	4.450E+08	1.989E+08	1.998E+08	1.129E+08	1.134E+08	5.110E+07	5.141E+07	2.926E+07	2.951E+07
8	1.788E+08	1.796E+08	8.811E+07	8.857E+07	3.953E+07	3.970E+07	2.244E+07	2.255E+07	1.016E+07	1.025E+07	5.816E+06	5.904E+06
9	5.707E+07	5.740E+07	2.813E+07	2.824E+07	1.262E+07	1.265E+07	7.165E+06	7.207E+06	3.243E+06	3.292E+06	1.857E+06	1.903E+06
10	1.156E+07	1.158E+07	5.699E+06	5.702E+06	2.557E+06	2.574E+06	1.452E+06	1.475E+06	6.571E+05	6.804E+05	3.762E+05	3.958E+05
11	2.420E+06	2.415E+06	1.192E+06	1.202E+06	5.350E+05	5.503E+05	3.038E+05	3.181E+05	1.375E+05	1.480E+05	7.872E+04	8.643E+04
12	8.303E+05	8.383E+05	4.092E+05	4.219E+05	1.836E+05	1.948E+05	1.042E+05	1.129E+05	4.718E+04	5.260E+04	2.701E+04	3.068E+04
13	3.779E+05	3.907E+05	1.862E+05	1.977E+05	8.355E+04	9.141E+04	4.743E+04	5.294E+04	2.147E+04	2.454E+04	1.229E+04	1.425E+04
14	2.076E+05	2.219E+05	1.023E+05	1.122E+05	4.590E+04	5.169E+04	2.606E+04	2.980E+04	1.179E+04	1.370E+04	6.753E+03	7.895E+03
15	9.226E+04	1.074E+05	4.546E+04	5.367E+04	2.040E+04	2.430E+04	1.158E+04	1.381E+04	5.242E+03	6.203E+03	3.001E+03	3.504E+03
16	5.961E+04	7.511E+04	2.938E+04	3.700E+04	1.318E+04	1.646E+04	7.483E+03	9.230E+03	3.387E+03	4.055E+03	1.939E+03	2.249E+03
17	5.190E+04	6.749E+04	2.558E+04	3.306E+04	1.148E+04	1.441E+04	6.515E+03	8.147E+03	2.949E+03	3.548E+03	1.688E+03	1.953E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	1.895E+11	1.899E+11	9.996E+10	1.002E+11	5.131E+10	5.145E+10	2.446E+10	2.455E+10	1.464E+10	1.470E+10	7.235E+09	7.270E+09
2	1.185E+10	1.188E+10	6.248E+09	6.272E+09	3.207E+09	3.223E+09	1.529E+09	1.539E+09	9.154E+08	9.222E+08	4.523E+08	4.564E+08
3	2.341E+09	2.351E+09	1.235E+09	1.241E+09	6.337E+08	6.341E+08	3.021E+08	3.049E+08	1.809E+08	1.829E+08	8.936E+07	9.059E+07
4	7.410E+08	7.447E+08	3.908E+08	3.934E+08	2.008E+08	2.024E+08	9.563E+07	9.682E+07	5.725E+07	5.811E+07	2.828E+07	2.881E+07
5	1.465E+08	1.475E+08	7.727E+07	7.803E+07	3.966E+07	4.022E+07	1.891E+07	1.928E+07	1.132E+07	1.159E+07	5.593E+06	5.754E+06
6	4.642E+07	4.685E+07	2.448E+07	2.482E+07	1.257E+07	1.241E+07	5.991E+06	6.155E+06	3.587E+06	3.704E+06	1.772E+06	1.842E+06
7	1.905E+07	1.928E+07	1.005E+07	1.023E+07	5.157E+06	5.291E+06	2.458E+06	2.546E+06	1.472E+06	1.534E+06	7.272E+05	7.643E+05
8	3.787E+06	3.867E+06	1.997E+06	2.061E+06	1.025E+06	1.071E+06	4.887E+05	5.174E+05	2.926E+05	3.125E+05	1.446E+05	1.562E+05
9	2.109E+06	2.250E+06	6.376E+05	6.685E+05	3.273E+05	3.445E+05	1.560E+05	1.689E+05	9.340E+04	1.022E+05	4.615E+04	5.118E+04
10	2.450E+05	2.610E+05	1.292E+05	1.403E+05	6.631E+04	7.342E+04	3.161E+04	3.570E+04	1.893E+04	2.163E+04	9.351E+03	1.084E+04
11	5.125E+04	5.711E+04	2.703E+04	3.074E+04	1.387E+04	1.688E+04	6.514E+03	7.801E+03	3.960E+03	4.716E+03	1.950E+03	2.354E+03
12	1.759E+04	2.023E+04	9.275E+03	1.084E+04	4.761E+03	5.679E+03	2.710E+03	2.714E+03	1.359E+03	1.630E+03	6.713E+02	8.058E+02
13	8.006E+03	9.352E+03	4.221E+03	4.973E+03	2.167E+03	2.559E+03	1.033E+03	1.215E+03	6.184E+02	7.219E+02	3.055E+02	3.513E+02
14	4.397E+03	5.149E+03	2.319E+03	2.706E+03	1.190E+03	1.373E+03	5.674E+02	6.393E+02	3.397E+02	3.741E+02	1.678E+02	1.780E+02
15	1.954E+03	2.246E+03	1.031E+03	1.145E+03	5.290E+02	5.591E+02	2.522E+02	2.468E+02	1.510E+02	1.381E+02	7.459E+01	8.111E+01
16	1.263E+03	1.418E+03	6.659E+02	7.023E+02	3.418E+02	3.298E+02	1.630E+02	1.371E+02	9.755E+01	7.259E+01	4.820E+01	2.905E+01
17	1.099E+03	1.223E+03	5.798E+02	5.983E+02	2.978E+02	2.759E+02	1.419E+02	1.116E+02	8.494E+01	5.746E+01	4.197E+01	2.169E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-00MEV		1.5E-00MEV		2.0E-00MEV	
1	4.439E+09	4.462E+09	3.054E+09	3.071E+09	1.746E+09	1.747E+09	9.662E+08	9.725E+08	4.890E+08	4.923E+08	2.987E+08	3.007E+08
2	2.775E+08	2.803E+08	1.909E+08	1.930E+08	1.092E+08	1.105E+08	6.040E+07	6.116E+07	3.056E+07	3.094E+07	1.867E+07	1.892E+07
3	5.402E+07	5.566E+07	3.772E+07	3.834E+07	2.157E+07	2.195E+07	1.193E+07	1.216E+07	6.039E+06	6.158E+06	3.689E+06	3.763E+06
4	1.735E+07	1.771E+07	1.194E+07	1.222E+07	6.827E+06	6.902E+06	3.777E+06	3.874E+06	1.911E+06	1.967E+06	1.167E+06	1.199E+06
6	3.431E+06	3.541E+06	2.361E+06	2.442E+06	1.350E+06	1.400E+06	7.469E+05	7.761E+05	3.780E+05	3.934E+05	2.369E+05	2.404E+05
8	1.087E+06	1.135E+06	7.489E+05	7.831E+05	4.277E+05	4.443E+05	2.367E+05	2.493E+05	1.198E+05	1.244E+05	7.315E+04	7.726E+04
10	4.461E+05	4.712E+05	3.069E+05	3.253E+05	1.755E+05	1.848E+05	9.711E+04	1.037E+05	4.914E+04	5.257E+04	3.002E+04	3.214E+04
15	0.868E+04	9.643E+04	6.101E+04	6.664E+04	3.449E+04	3.841E+04	1.938E+04	2.126E+04	9.769E+03	1.080E+04	5.947E+03	6.606E+03
20	2.831E+04	3.164E+04	1.948E+04	2.188E+04	1.114E+04	1.245E+04	6.143E+03	6.944E+03	3.110E+03	3.551E+03	1.905E+03	2.172E+03
30	5.736E+03	6.704E+03	3.947E+03	4.636E+03	2.257E+03	2.647E+03	1.249E+03	1.482E+03	6.319E+02	7.524E+02	3.860E+02	4.402E+02
45	1.200E+03	1.452E+03	8.258E+02	1.002E+03	4.722E+02	5.747E+02	2.613E+02	3.181E+02	1.322E+02	1.674E+02	8.076E+01	9.846E+01
60	4.118E+02	4.936E+02	2.834E+02	3.390E+02	1.620E+02	1.972E+02	8.966E+01	1.061E+02	4.537E+01	5.377E+01	2.771E+01	3.280E+01
75	1.074E+02	2.124E+02	1.280E+02	1.450E+02	7.374E+01	8.141E+01	4.080E+01	4.473E+01	2.065E+01	2.241E+01	1.241E+01	1.363E+01
90	1.030E+02	1.061E+02	7.084E+01	7.142E+01	4.051E+01	3.944E+01	2.241E+01	2.137E+01	1.136E+01	1.059E+01	6.928E+00	6.804E+00
120	4.576E+01	3.445E+01	3.148E+01	2.220E+01	1.800E+01	1.147E+01	5.842E+00	5.887E+00	5.841E+00	2.774E+00	1.637E+00	1.637E+00
150	2.957E+01	1.496E+01	2.034E+01	8.885E+00	1.163E+01	4.033E+00	6.437E+00	1.756E+00	3.257E+00	7.008E+00	1.970E+00	3.748E+00
179	2.574E+01	1.051E+01	1.771E+01	5.860E+00	1.013E+01	2.339E+00	5.604E+00	4.267E+01	2.834E+00	2.341E+01	1.732E+00	4.252E+02
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	1.465E+08	1.475E+08	8.726E+07	8.787E+07	5.798E+07	5.837E+07	3.096E+07	3.118E+07	1.574E+07	1.594E+07	7.207E+06	7.259E+06
2	7.158E+06	9.282E+06	5.454E+06	5.529E+06	3.623E+06	3.673E+06	1.935E+06	1.962E+06	9.836E+05	9.971E+05	4.905E+05	4.967E+05
3	1.809E+06	1.846E+06	1.078E+06	1.100E+06	7.159E+05	7.308E+05	3.823E+05	3.902E+05	1.943E+05	1.984E+05	8.902E+04	9.074E+04
4	5.727E+05	5.895E+05	3.411E+05	3.504E+05	2.266E+05	2.359E+05	1.210E+05	1.244E+05	6.151E+04	6.323E+04	2.818E+04	2.846E+04
6	1.132E+05	1.160E+05	6.745E+04	7.030E+04	4.480E+04	4.671E+04	2.393E+04	2.495E+04	1.216E+04	1.268E+04	5.571E+03	5.804E+03
8	3.588E+04	3.793E+04	2.137E+04	2.268E+04	1.420E+04	1.501E+04	7.502E+03	8.019E+03	3.854E+03	4.074E+03	1.769E+03	1.867E+03
10	1.472E+04	1.578E+04	8.769E+03	9.403E+03	5.420E+03	5.648E+03	3.111E+03	3.337E+03	1.581E+03	1.667E+03	7.244E+02	7.771E+02
15	2.427E+03	3.244E+03	1.573E+03	1.933E+03	1.159E+03	1.284E+03	6.185E+02	6.861E+02	3.144E+02	3.484E+02	1.460E+02	1.598E+02
20	9.344E+02	1.067E+03	5.565E+02	6.357E+02	3.697E+02	4.274E+02	1.974E+02	2.257E+02	1.004E+02	1.147E+02	4.597E+01	5.255E+01
30	1.893E+02	2.260E+02	1.128E+02	1.347E+02	7.491E+01	8.449E+01	4.001E+01	4.780E+01	2.034E+01	2.439E+01	9.315E+00	1.113E+01
45	3.962E+01	4.841E+01	2.359E+01	2.884E+01	5.378E+00	6.352E+00	2.872E+00	3.392E+00	4.255E+00	5.208E+00	1.949E+00	2.382E+00
60	1.359E+01	1.607E+01	8.096E+00	9.565E+00	2.448E+00	2.857E+00	1.307E+00	1.402E+00	1.460E+00	1.724E+00	6.888E+00	7.895E+00
75	6.186E+00	6.657E+00	3.684E+00	3.958E+00	2.448E+00	2.857E+00	1.307E+00	1.402E+00	6.645E+00	7.122E+00	3.043E+00	3.261E+00
90	3.398E+00	3.114E+00	2.024E+00	1.848E+00	1.345E+00	1.225E+00	7.181E+00	6.531E+00	3.450E+00	3.317E+00	1.677E+00	1.518E+00
120	1.510E+00	7.782E+00	9.946E+00	4.574E+00	5.974E+00	3.018E+00	3.192E+00	1.601E+00	1.622E+00	4.110E+00	7.431E+00	3.707E+00
150	9.744E+00	1.611E+00	5.813E+00	9.034E+00	3.461E+00	9.413E+00	2.682E+00	3.010E+00	1.048E+00	1.503E+00	4.801E+00	4.112E+00
179	0.4E+00	2.327E+02	5.061E+00	8.424E+00	3.362E+00	3.748E+00	1.795E+00	1.697E+00	9.127E+00	2.419E+00	4.140E+00	4.507E+00
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	4.118E+06	4.147E+06	1.868E+06	1.873E+06	1.055E+06	1.042E+06	6.783E+05	6.831E+05	3.491E+05	3.505E+05	1.713E+05	1.725E+05
2	2.574E+05	2.609E+05	1.162E+05	1.178E+05	6.503E+04	6.483E+04	4.240E+04	4.288E+04	2.176E+04	2.204E+04	1.071E+04	1.085E+04
3	5.086E+04	5.102E+04	2.297E+04	2.345E+04	1.303E+04	1.310E+04	8.374E+03	8.552E+03	4.298E+03	4.389E+03	2.115E+03	2.150E+03
4	1.618E+04	1.655E+04	7.270E+03	7.474E+03	4.123E+03	4.230E+03	2.652E+03	2.726E+03	1.361E+03	1.399E+03	6.696E+02	6.843E+02
6	3.162E+03	3.319E+03	1.438E+03	1.499E+03	8.152E+02	8.561E+02	5.243E+02	5.667E+02	2.698E+02	2.805E+02	1.324E+02	1.381E+02
8	1.089E+03	1.067E+03	4.555E+02	4.618E+02	2.583E+02	2.712E+02	1.661E+02	1.757E+02	8.525E+01	9.017E+01	4.635E+01	4.838E+01
10	4.139E+02	4.440E+02	1.869E+02	2.005E+02	1.080E+02	1.177E+02	6.057E+01	7.314E+01	3.498E+01	3.743E+01	1.721E+01	1.847E+01
15	6.277E+01	9.124E+01	3.716E+01	4.123E+01	2.107E+01	2.318E+01	1.355E+01	1.504E+01	6.944E+00	7.714E+00	3.622E+00	3.797E+00
20	2.624E+01	3.002E+01	1.186E+01	1.356E+01	6.727E+00	7.648E+00	4.372E+00	4.444E+00	2.220E+00	2.539E+00	1.024E+00	1.240E+00
30	5.328E+00	6.366E+00	2.402E+00	2.873E+00	1.363E+00	1.659E+00	8.766E+00	1.049E+00	4.498E+00	5.374E+00	2.214E+00	2.646E+00
45	1.113E+00	1.361E+00	5.029E+00	6.147E+00	2.855E+00	3.488E+00	1.631E+00	2.242E+00	9.411E+00	1.151E+01	4.631E+00	5.622E+00
60	3.821E+01	4.518E+01	1.724E+01	2.037E+01	9.786E+00	1.155E+01	6.294E+00	7.429E+00	3.224E+00	3.812E+00	1.589E+00	1.874E+00
75	1.734E+01	1.863E+01	7.853E+00	8.414E+00	4.453E+00	4.771E+00	2.884E+00	3.084E+00	1.479E+00	1.575E+00	7.233E+00	7.744E+00
90	9.552E+00	8.673E+00	4.314E+00	3.916E+00	2.444E+00	2.221E+00	1.573E+00	1.424E+00	8.074E+00	7.324E+00	3.973E+00	3.686E+00
120	4.245E+00	2.116E+00	1.917E+00	3.552E+00	1.087E+00	1.419E+00	6.993E+00	3.803E+00	3.588E+00	1.747E+00	1.744E+00	1.744E+00
150	2.743E+00	3.877E+00	1.239E+00	1.746E+00	7.028E+00	9.803E+00	2.549E+00	3.380E+00	2.319E+00	1.242E+00	1.641E+00	1.641E+00
179	2.388E+00	2.292E+00	1.079E+00	5.848E+00	6.117E+00	2.246E+00	3.934E+00	1.157E+00	2.010E+00	4.444E+00	9.934E+00	1.945E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
0EG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	4.533E+14	4.536E+14	2.017E+14	2.018E+14	1.136E+14	1.136E+14	5.057E+13	5.060E+13	2.056E+13	2.057E+13	1.027E+13	1.028E+13
2	2.836E+13	2.836E+13	1.261E+13	1.261E+13	7.089E+12	7.103E+12	3.163E+12	3.163E+12	1.791E+12	1.793E+12	1.124E+12	1.124E+12
3	5.599E+12	5.603E+12	2.401E+12	2.403E+12	1.082E+12	1.093E+12	6.245E+11	6.250E+11	3.525E+11	3.527E+11	2.257E+11	2.259E+11
4	1.772E+12	1.773E+12	7.884E+11	7.890E+11	4.435E+11	4.443E+11	1.977E+11	1.979E+11	1.116E+11	1.116E+11	7.164E+10	7.165E+10
6	3.502E+11	3.507E+11	1.559E+11	1.560E+11	8.778E+10	8.785E+10	3.900E+10	3.913E+10	2.203E+10	2.204E+10	1.413E+10	1.415E+10
8	1.116E+11	1.116E+11	4.900E+10	4.903E+10	2.701E+10	2.704E+10	1.230E+10	1.240E+10	6.988E+09	6.992E+09	4.470E+09	4.483E+09
10	4.558E+10	4.560E+10	2.027E+10	2.029E+10	1.141E+10	1.142E+10	5.082E+09	5.090E+09	2.864E+09	2.869E+09	1.837E+09	1.840E+09
15	9.057E+09	9.066E+09	4.029E+09	4.031E+09	2.248E+09	2.249E+09	1.010E+09	1.012E+09	5.066E+08	5.070E+08	3.051E+08	3.054E+08
20	2.891E+09	2.894E+09	1.280E+09	1.280E+09	7.203E+08	7.204E+08	3.225E+08	3.227E+08	1.818E+08	1.820E+08	1.168E+08	1.170E+08
30	5.859E+08	5.871E+08	2.808E+08	2.809E+08	1.403E+08	1.403E+08	6.535E+07	6.536E+07	3.089E+07	3.090E+07	2.302E+07	2.303E+07
45	1.228E+08	1.225E+08	5.453E+07	5.473E+07	3.071E+07	3.092E+07	1.367E+07	1.373E+07	7.704E+06	7.709E+06	4.962E+06	4.923E+06
60	4.208E+07	4.235E+07	1.071E+07	1.084E+07	1.854E+07	1.854E+07	4.002E+06	4.002E+06	2.604E+06	2.610E+06	1.684E+06	1.684E+06
75	1.910E+07	1.922E+07	8.516E+06	8.622E+06	4.745E+06	4.711E+06	2.135E+06	2.104E+06	1.283E+06	1.199E+06	7.717E+05	7.781E+05
90	1.052E+07	1.026E+07	4.078E+06	4.043E+06	2.619E+06	2.578E+06	1.173E+06	1.174E+06	6.011E+05	4.740E+05	4.239E+05	4.450E+05
120	4.674E+06	4.743E+06	2.079E+06	2.102E+06	1.191E+06	1.249E+06	5.921E+05	4.780E+05	2.921E+05	3.325E+05	1.880E+05	2.162E+05
150	2.026E+06	3.593E+06	1.340E+06	1.630E+06	7.503E+05	8.248E+05	3.300E+05	4.200E+05	1.809E+05	2.303E+05	1.217E+05	1.561E+05
179	2.024E+06	3.344E+06	1.170E+06	1.503E+06	6.589E+05	8.537E+05	2.933E+05	3.837E+05	1.497E+05	2.172E+05	1.000E+05	1.345E+05
0EG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	9.369E+12	9.367E+12	4.013E+12	4.014E+12	2.070E+12	2.071E+12	1.175E+12	1.176E+12	5.318E+11	5.325E+11	3.004E+11	3.005E+11
2	5.051E+11	5.056E+11	2.083E+11	2.087E+11	1.240E+11	1.245E+11	7.309E+10	7.350E+10	3.324E+10	3.331E+10	1.903E+10	1.908E+10
3	1.156E+11	1.157E+11	5.407E+10	5.704E+10	2.550E+10	2.560E+10	1.451E+10	1.454E+10	8.500E+09	8.500E+09	3.761E+09	3.774E+09
4	3.659E+10	3.660E+10	1.803E+10	1.808E+10	8.092E+09	8.108E+09	4.533E+09	4.540E+09	2.079E+09	2.080E+09	1.100E+09	1.100E+09
6	7.235E+09	7.246E+09	3.565E+09	3.573E+09	1.680E+09	1.689E+09	9.652E+08	9.669E+08	4.111E+08	4.125E+08	2.354E+08	2.357E+08
8	2.292E+09	2.296E+09	1.132E+09	1.133E+09	5.869E+08	5.881E+08	2.874E+08	2.882E+08	1.303E+08	1.310E+08	7.640E+07	7.649E+07
10	6.407E+08	6.427E+08	4.016E+08	4.034E+08	2.040E+08	2.040E+08	1.101E+08	1.107E+08	5.345E+07	5.377E+07	3.000E+07	3.000E+07
15	1.970E+08	1.979E+08	9.216E+07	9.267E+07	4.135E+07	4.150E+07	2.307E+07	2.324E+07	1.033E+07	1.037E+07	6.003E+06	6.019E+06
20	5.970E+07	6.006E+07	2.942E+07	2.950E+07	1.329E+07	1.330E+07	7.000E+06	7.035E+06	3.302E+06	3.304E+06	1.902E+06	1.904E+06
30	1.210E+07	1.212E+07	5.961E+06	5.961E+06	2.675E+06	2.680E+06	1.510E+06	1.514E+06	6.871E+05	7.100E+05	3.935E+05	4.110E+05
45	2.531E+06	2.523E+06	1.247E+06	1.255E+06	5.500E+05	5.469E+05	3.177E+05	3.173E+05	1.400E+05	1.400E+05	8.237E+04	8.240E+04
60	6.085E+05	6.740E+05	4.269E+05	4.404E+05	1.800E+05	2.033E+05	1.000E+05	1.181E+05	4.935E+04	4.930E+04	2.835E+04	3.217E+04
75	3.952E+05	4.078E+05	1.960E+05	2.000E+05	9.717E+04	9.645E+04	4.941E+04	5.566E+04	2.240E+04	2.470E+04	1.200E+04	1.400E+04
90	2.171E+05	2.190E+05	1.070E+05	1.175E+05	4.401E+04	4.450E+04	2.720E+04	3.124E+04	1.230E+04	1.440E+04	7.000E+03	8.100E+03
120	9.650E+04	1.120E+05	4.755E+04	5.867E+04	2.139E+04	2.500E+04	1.219E+04	1.457E+04	5.400E+03	6.450E+03	3.100E+03	3.600E+03
150	6.235E+04	7.935E+04	3.073E+04	3.913E+04	1.370E+04	1.742E+04	7.022E+03	9.773E+03	3.563E+03	4.200E+03	2.000E+03	2.300E+03
179	5.429E+04	7.145E+04	2.675E+04	3.503E+04	1.200E+04	1.540E+04	6.015E+03	8.030E+03	3.000E+03	3.740E+03	1.700E+03	2.000E+03
0EG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	1.003E+11	1.004E+11	1.000E+11	1.000E+11	5.367E+10	5.368E+10	2.500E+10	2.500E+10	1.500E+10	1.500E+10	7.500E+09	7.500E+09
2	1.239E+10	1.243E+10	4.530E+09	4.536E+09	3.335E+09	3.337E+09	1.500E+09	1.500E+09	9.500E+08	9.500E+08	6.200E+08	6.200E+08
3	2.469E+09	2.469E+09	1.201E+09	1.204E+09	6.020E+08	6.020E+08	3.000E+08	3.000E+08	1.500E+08	1.500E+08	7.500E+07	7.500E+07
4	7.550E+08	7.709E+08	4.007E+08	4.114E+08	2.000E+08	2.110E+08	1.000E+08	1.033E+08	5.000E+07	5.000E+07	2.500E+07	2.500E+07
6	1.320E+08	1.503E+08	8.000E+07	9.100E+07	4.100E+07	4.200E+07	1.000E+07	1.033E+07	5.000E+06	5.000E+06	2.500E+06	2.500E+06
8	4.050E+07	4.099E+07	2.500E+07	2.500E+07	1.310E+07	1.310E+07	6.000E+06	6.000E+06	3.000E+06	3.000E+06	1.500E+06	1.500E+06
10	1.993E+07	2.016E+07	1.050E+07	1.060E+07	5.300E+06	5.300E+06	2.500E+06	2.500E+06	1.500E+06	1.500E+06	7.500E+05	7.500E+05
15	3.961E+06	4.042E+06	2.000E+06	2.100E+06	1.000E+06	1.000E+06	5.000E+05	5.000E+05	2.500E+05	2.500E+05	1.250E+05	1.250E+05
20	1.260E+06	1.300E+06	6.000E+05	6.000E+05	3.000E+05	3.000E+05	1.500E+05	1.500E+05	7.500E+04	7.500E+04	3.750E+04	3.750E+04
30	2.502E+05	2.590E+05	1.350E+05	1.400E+05	6.000E+04	6.000E+04	3.000E+04	3.000E+04	1.500E+04	1.500E+04	7.500E+03	7.500E+03
45	5.361E+04	5.002E+04	2.627E+04	3.223E+04	1.400E+04	1.400E+04	6.000E+03	6.000E+03	3.000E+03	3.000E+03	1.500E+03	1.500E+03
60	1.800E+04	2.120E+04	9.70E+03	1.160E+04	4.000E+03	4.000E+03	2.000E+03	2.000E+03	1.000E+03	1.000E+03	5.000E+02	5.000E+02
75	8.172E+03	9.030E+03	4.150E+03	5.200E+03	2.200E+03	2.700E+03	1.000E+03	1.000E+03	5.000E+02	5.000E+02	2.500E+02	2.500E+02
90	4.500E+03	5.620E+03	2.250E+03	2.800E+03	1.200E+03	1.400E+03	6.000E+02	6.000E+02	3.000E+02	3.000E+02	1.500E+02	1.500E+02
120	2.000E+03	2.350E+03	1.000E+03	1.210E+03	5.000E+02	5.000E+02	2.000E+02	2.000E+02	1.000E+02	1.000E+02	5.000E+01	5.000E+01
150	1.321E+03	1.503E+03	6.000E+02	7.000E+02	3.000E+02	3.000E+02	1.000E+02	1.000E+02	5.000E+01	5.000E+01	2.500E+01	2.500E+01
179	1.150E+03	1.290E+03	5.000E+02	6.000E+02	3.000E+02	3.000E+02	1.000E+02	1.000E+02	5.000E+01	5.000E+01	2.500E+01	2.500E+01

	AUTH	NOTT	AUTH	NOTT	AUTH	NOTT	AUTH	NOTT	AUTH	NOTT	AUTH	NOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-00MEV		1.5E-00MEV		2.0E-00MEV	
1	4.643E-09	4.667E-09	3.194E-09	3.213E-09	1.827E-09	1.849E-09	1.011E-09	1.017E-09	5.114E-09	5.144E-09	3.124E-09	3.146E-09
2	2.902E-08	2.932E-08	1.997E-08	2.019E-08	1.163E-08	1.165E-08	6.319E-07	6.337E-07	3.197E-07	3.234E-07	1.953E-07	1.979E-07
3	5.734E-07	5.822E-07	3.945E-07	4.018E-07	2.259E-07	2.247E-07	1.248E-07	1.272E-07	6.317E-08	6.442E-08	3.858E-08	3.930E-08
4	1.815E-07	1.853E-07	1.249E-07	1.277E-07	7.441E-08	7.314E-08	3.953E-08	3.953E-08	1.949E-08	2.013E-08	1.221E-08	1.253E-08
6	3.589E-06	3.705E-06	2.449E-06	2.556E-06	1.412E-06	1.445E-06	7.812E-06	8.122E-06	3.953E-06	4.114E-06	2.415E-06	2.516E-06
8	1.137E-06	1.188E-06	7.826E-06	8.194E-06	4.474E-06	4.782E-06	2.475E-06	2.689E-06	1.233E-06	1.323E-06	7.851E-06	8.087E-06
10	4.666E-05	4.931E-05	3.210E-05	3.405E-05	1.610E-05	1.945E-05	1.016E-05	1.085E-05	5.140E-05	5.585E-05	3.140E-05	3.366E-05
15	9.275E-04	1.010E-03	4.382E-04	4.986E-04	3.459E-04	4.014E-04	2.017E-04	2.235E-04	1.022E-04	1.132E-04	6.241E-04	6.923E-04
20	2.661E-04	3.310E-04	2.037E-04	2.244E-04	1.145E-04	1.350E-04	6.448E-04	7.337E-04	3.262E-04	3.725E-04	1.982E-04	2.274E-04
30	6.000E-03	7.302E-03	4.128E-03	4.871E-03	2.341E-03	2.803E-03	1.308E-03	1.554E-03	6.416E-03	7.913E-03	4.037E-03	4.846E-03
45	1.255E-03	1.530E-03	8.637E-02	1.059E-03	4.919E-02	6.822E-02	2.731E-02	3.382E-02	1.383E-02	1.704E-02	4.647E-02	5.641E-02
60	4.308E-02	5.217E-02	2.944E-02	3.584E-02	1.455E-02	2.044E-02	9.378E-01	1.128E-02	4.745E-01	5.463E-01	2.888E-01	3.473E-01
75	1.860E-02	2.259E-02	1.349E-02	1.537E-02	7.713E-01	4.937E-01	4.248E-01	4.747E-01	2.180E-01	2.388E-01	1.319E-01	1.447E-01
90	1.077E-02	1.126E-02	7.419E-01	7.584E-01	4.217E-01	4.212E-01	2.344E-01	2.272E-01	1.184E-01	1.127E-01	7.248E-01	6.615E-01
120	4.780E-01	3.682E-01	3.292E-01	2.362E-01	1.883E-01	1.212E-01	1.042E-01	4.274E-00	5.273E-00	2.941E-00	2.221E-00	1.707E-00
150	3.943E-01	1.589E-01	2.126E-01	9.446E-02	1.217E-01	4.288E-00	8.231E-00	1.869E-00	3.407E-00	7.473E-01	2.081E-00	4.001E-01
170	2.643E-01	1.115E-01	1.853E-01	6.214E-00	1.559E-01	2.470E-00	5.862E-00	6.745E-01	2.986E-00	2.503E-01	1.812E-00	4.804E-02
DEG	3.0E-00MEV		4.0E-00MEV		5.0E-00MEV		7.0E-00MEV		1.0E-01MEV		1.5E-01MEV	
1	1.532E-08	1.543E-08	9.127E-07	9.192E-07	6.043E-07	6.108E-07	3.238E-07	3.261E-07	1.466E-07	1.488E-07	7.533E-06	7.593E-06
2	9.579E-06	9.710E-06	5.705E-06	5.783E-06	3.788E-06	3.842E-06	2.024E-06	2.052E-06	1.024E-06	1.043E-06	4.712E-06	4.778E-06
3	1.803E-06	1.832E-06	1.127E-06	1.151E-06	7.488E-06	7.644E-06	3.999E-06	4.083E-06	2.033E-06	2.075E-06	9.311E-06	9.586E-06
4	5.991E-05	6.157E-05	3.508E-05	3.648E-05	2.378E-05	2.447E-05	1.286E-05	1.301E-05	6.434E-06	6.616E-06	2.947E-06	3.038E-06
6	1.185E-05	1.235E-05	7.055E-04	7.357E-04	4.888E-04	4.888E-04	2.503E-04	2.611E-04	1.272E-04	1.327E-04	1.272E-04	1.327E-04
8	3.753E-04	3.970E-04	2.235E-04	2.385E-04	1.445E-04	1.571E-04	7.930E-03	8.394E-03	4.031E-03	4.267E-03	1.848E-03	1.955E-03
10	1.540E-04	1.653E-04	9.173E-03	9.446E-03	6.043E-03	6.542E-03	3.254E-03	3.455E-03	1.094E-03	1.177E-03	7.577E-02	8.137E-02
15	3.052E-03	3.406E-03	1.822E-03	2.026E-03	1.211E-03	1.360E-03	6.468E-02	7.101E-02	3.288E-02	3.658E-02	1.568E-02	1.675E-02
20	9.774E-02	1.119E-02	5.021E-02	6.071E-02	3.467E-02	4.437E-02	2.085E-02	2.365E-02	1.058E-02	1.264E-02	4.888E-01	5.514E-01
30	1.980E-02	2.377E-02	1.179E-02	1.417E-02	7.835E-01	8.413E-01	4.185E-01	5.024E-01	2.127E-01	2.558E-01	9.743E-01	1.171E-01
45	4.144E-01	5.111E-01	2.468E-01	3.044E-01	1.634E-01	2.032E-01	8.755E-00	1.088E-01	4.451E-00	5.401E-00	2.038E-00	2.515E-00
60	1.423E-01	1.702E-01	8.468E-00	1.013E-01	5.628E-00	6.788E-00	3.004E-00	3.592E-00	1.527E-00	1.874E-00	6.885E-01	8.362E-01
75	4.471E-00	7.070E-00	3.854E-00	4.204E-00	2.560E-00	2.780E-00	1.367E-00	1.484E-00	6.950E-01	7.565E-01	3.183E-01	3.466E-01
90	3.555E-00	3.314E-00	2.117E-00	1.967E-00	1.406E-00	1.304E-00	7.511E-01	6.954E-01	3.818E-01	3.531E-01	1.749E-01	1.616E-01
120	1.580E-00	8.310E-01	9.409E-01	4.988E-01	6.251E-01	3.231E-01	3.338E-01	1.711E-01	1.697E-01	8.644E-02	7.772E-02	3.968E-02
150	1.021E-00	1.722E-01	6.080E-01	9.640E-02	4.019E-01	6.218E-02	2.157E-01	7.221E-02	1.040E-01	1.608E-02	5.022E-02	7.291E-02
170	8.888E-01	2.467E-02	5.294E-01	8.933E-03	3.516E-01	3.945E-03	1.874E-01	1.183E-03	9.566E-02	3.888E-04	4.373E-02	6.064E-05
DEG	2.0E-01MEV		3.0E-01MEV		4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-02MEV	
1	4.307E-06	4.338E-06	1.945E-06	1.959E-06	1.103E-06	1.111E-06	7.095E-06	7.146E-06	3.641E-06	3.667E-06	1.792E-06	1.804E-06
2	2.692E-05	2.730E-05	1.216E-05	1.233E-05	6.806E-06	6.891E-06	4.435E-06	4.497E-06	2.276E-06	2.307E-06	1.120E-06	1.135E-06
3	5.320E-04	5.431E-04	2.402E-04	2.453E-04	1.362E-04	1.391E-04	8.763E-03	8.940E-03	4.486E-03	4.591E-03	2.213E-03	2.259E-03
4	1.684E-04	1.731E-04	7.606E-03	7.819E-03	4.312E-04	4.444E-04	2.774E-02	2.852E-02	1.423E-03	1.463E-03	7.004E-02	7.201E-02
6	3.324E-03	3.473E-03	1.508E-03	1.569E-03	7.527E-02	8.804E-02	5.488E-02	5.722E-02	2.814E-02	2.936E-02	1.385E-02	1.445E-02
8	1.055E-03	1.117E-03	4.784E-02	5.044E-02	2.702E-02	2.868E-02	7.738E-02	1.840E-02	8.917E-01	9.439E-01	4.388E-01	4.645E-01
10	4.329E-02	4.649E-02	1.955E-02	2.100E-02	1.109E-02	1.161E-02	7.131E-01	7.559E-01	3.659E-01	3.939E-01	1.801E-01	1.934E-01
15	8.606E-01	9.568E-01	3.886E-01	4.321E-01	2.204E-01	2.461E-01	1.418E-01	1.576E-01	7.273E-00	8.088E-00	3.579E-00	3.986E-00
20	2.747E-01	3.151E-01	1.241E-01	1.423E-01	7.038E-00	8.749E-00	4.525E-00	5.140E-00	2.327E-00	2.863E-00	1.143E-00	1.311E-00
30	5.567E-00	6.591E-00	2.514E-00	3.022E-00	1.428E-00	1.714E-00	7.104E-01	1.102E-00	4.704E-01	5.655E-01	2.315E-01	2.783E-01
45	1.165E-00	1.437E-00	5.260E-01	6.490E-01	2.983E-01	3.681E-01	1.918E-01	2.367E-01	9.844E-02	1.215E-01	4.844E-02	5.978E-02
60	3.997E-01	4.774E-01	1.805E-01	2.158E-01	1.024E-01	1.234E-01	6.583E-02	7.870E-02	3.370E-02	4.038E-02	1.862E-02	1.987E-02
75	1.819E-01	1.979E-01	8.214E-02	8.937E-02	4.658E-02	5.088E-02	2.496E-02	3.260E-02	1.537E-02	1.677E-02	7.565E-03	8.231E-03
90	9.991E-02	9.234E-02	4.512E-02	4.168E-02	2.549E-02	2.384E-02	1.646E-02	1.521E-02	6.445E-03	7.803E-03	4.156E-03	3.806E-03
120	4.441E-02	2.281E-02	2.005E-02	1.021E-02	1.117E-02	5.780E-03	7.315E-03	3.721E-03	3.743E-03	1.904E-03	1.687E-03	9.395E-04
150	2.869E-02	4.150E-03	1.298E-02	1.864E-03	7.349E-03	1.069E-03	4.727E-03	6.808E-04	2.425E-03	3.497E-04	1.153E-03	1.718E-04
170	2.498E-02	2.434E-05	1.128E-02	5.998E-06	6.398E-03	2.301E-06	4.114E-03	1.233E-06	2.112E-03	4.954E-07	1.039E-03	2.080E-07

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	4.737E+14	4.740E+14	2.107E+14	2.109E+14	1.147E+14	1.147E+14	5.284E+13	5.287E+13	2.978E+13	2.980E+13	1.910E+13	1.911E+13
2	2.961E+13	2.963E+13	1.317E+13	1.318E+13	7.417E+12	7.422E+12	3.303E+12	3.305E+12	1.862E+12	1.863E+12	1.194F+12	1.195E+12
3	5.851E+12	5.854E+12	2.603E+12	2.605E+12	1.466E+12	1.467E+12	6.526E+11	6.531E+11	3.678E+11	3.681E+11	2.358E+11	2.361E+11
4	1.852E+12	1.853E+12	8.238E+11	8.244E+11	4.635E+11	4.642E+11	2.066E+11	2.067E+11	1.164E+11	1.165E+11	7.465E+10	7.473E+10
6	3.662E+11	3.664E+11	1.629E+11	1.630E+11	9.172E+10	9.180E+10	4.084E+10	4.088E+10	2.302E+10	2.305E+10	1.476E+10	1.478E+10
8	1.160E+11	1.161E+11	5.162E+10	5.166E+10	2.906E+10	2.909E+10	1.294E+10	1.295E+10	7.294E+09	7.306E+09	4.677E+09	4.685E+09
10	4.761E+10	4.765E+10	2.118E+10	2.120E+10	1.193E+10	1.194E+10	5.311E+09	5.318E+09	2.993E+09	2.999E+09	1.919E+09	1.922E+09
15	9.464E+09	9.473E+09	4.210E+09	4.214E+09	2.371E+09	2.374E+09	1.056E+09	1.058E+09	5.950E+08	5.958E+08	3.815E+08	3.823E+08
20	3.021E+09	3.025E+09	1.344E+09	1.346E+09	7.568E+08	7.569E+08	3.370E+08	3.373E+08	1.899E+08	1.904E+08	1.210E+08	1.223E+08
30	6.122E+08	6.133E+08	2.724E+08	2.727E+08	1.533E+08	1.534E+08	6.829E+07	6.859E+07	3.849E+07	3.875E+07	2.468E+07	2.484E+07
40	1.281E+08	1.280E+08	5.699E+07	5.715E+07	3.209E+07	3.231E+07	1.629E+07	1.636E+07	8.053E+06	8.052E+06	5.163E+06	5.145E+06
65	4.395E+07	4.422E+07	1.955E+07	1.971E+07	1.101E+07	1.103E+07	4.903E+06	4.862E+06	2.763E+06	2.735E+06	1.772E+06	1.759E+06
75	2.000E+07	2.012E+07	8.899E+06	8.811E+06	5.010E+06	4.992E+06	2.231E+06	2.194E+06	1.257E+06	1.249E+06	8.063E+05	8.108E+05
100	1.099E+07	1.071E+07	4.889E+06	4.738E+06	2.753E+06	2.686E+06	1.226E+06	1.222E+06	6.903E+05	7.035E+05	4.430F+05	4.594E+05
120	4.884E+06	4.938E+06	2.173E+06	2.275E+06	1.223E+06	1.313E+06	5.448E+05	6.045E+05	3.070E+05	3.441E+05	1.969F+05	2.267E+05
150	3.156E+06	3.773E+06	1.404E+06	1.714E+06	7.905E+05	9.741E+05	3.520E+05	4.428E+05	1.984E+05	2.520F+05	1.272E+05	1.626E+05
179	2.748E+06	3.526E+06	1.222E+06	1.589E+06	6.882E+05	9.018E+05	3.045E+05	4.054E+05	1.727E+05	2.295F+05	1.108F+05	1.475E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	9.789E+12	9.787E+12	4.820E+12	4.824E+12	2.163E+12	2.145E+12	1.224E+12	1.229E+12	5.557E+11	5.564F+11	3.182F+11	3.187E+11
2	6.114E+11	6.119E+11	3.013E+11	3.016E+11	1.352E+11	1.354E+11	7.675E+10	7.687E+10	3.474E+10	3.481E+10	1.989E+10	1.994E+10
3	1.208E+11	1.209E+11	5.953E+10	5.961E+10	2.671E+10	2.675E+10	1.516E+10	1.520E+10	6.863E+09	6.884E+09	3.930F+09	3.944E+09
4	3.823E+10	3.829E+10	1.884E+10	1.887E+10	8.459E+09	8.471E+09	4.800E+09	4.813E+09	2.172E+09	2.181E+09	1.244F+09	1.249F+09
6	7.560E+09	7.572E+09	3.726E+09	3.733E+09	1.672E+09	1.677E+09	9.490E+08	9.530E+08	4.295E+08	4.316E+08	2.459F+08	2.473E+08
8	2.395E+09	2.399E+09	1.181E+09	1.184E+09	5.296E+08	5.330E+08	3.037E+08	3.022E+08	1.361E+08	1.369E+08	7.793E+07	7.846E+07
10	9.830E+08	9.849E+08	4.844E+08	4.863E+08	2.173E+08	2.185E+08	1.234E+08	1.240E+08	5.585E+07	5.619F+07	3.194F+07	3.224F+07
15	1.954E+08	1.963E+08	9.630E+07	9.686E+07	4.320E+07	4.342E+07	2.453E+07	2.465E+07	1.110E+07	1.119E+07	6.357E+06	6.444E+06
20	6.230E+07	6.278E+07	3.074E+07	3.090E+07	1.379E+07	1.384E+07	7.831E+06	7.871E+06	3.544E+06	3.591E+06	2.029F+06	2.076E+06
30	1.264E+07	1.268E+07	6.229E+06	6.231E+06	2.795E+06	2.808E+06	1.592E+06	1.608E+06	7.182E+05	7.417E+05	4.112E+05	4.317E+05
45	2.645E+06	2.635E+06	1.303E+06	1.309E+06	5.847E+05	5.993E+05	3.320E+05	3.467E+05	1.503E+05	1.616E+05	8.603E+04	9.456E+04
60	7.075E+05	9.122E+05	4.472E+05	4.592E+05	2.173E+05	2.124E+05	1.139E+05	1.234E+05	5.156E+04	5.765F+04	2.952E+04	3.370E+04
75	4.130E+05	4.251E+05	2.035E+05	2.156E+05	9.131E+04	9.990E+04	5.184E+04	5.604E+04	2.347E+04	2.701F+04	1.344E+04	1.572E+04
90	2.269E+05	2.420E+05	1.118E+05	1.228E+05	5.016E+04	5.677E+04	2.848E+04	3.202E+04	1.289E+04	1.514E+04	7.381E+03	8.746E+03
120	1.008E+05	1.184E+05	4.969E+04	5.935E+04	2.229E+04	2.645E+04	1.266E+04	1.535E+04	5.729E+03	6.911F+03	3.260F+03	3.910E+03
150	6.516E+04	8.375E+04	3.211E+04	4.133E+04	1.441E+04	1.842E+04	8.179E+03	1.034E+04	3.702E+03	4.548E+03	2.120E+03	2.525E+03
179	5.673E+04	7.559E+04	2.796E+04	3.708E+04	1.259E+04	1.640E+04	7.121E+03	9.154E+03	3.223E+03	3.999E+03	1.845E+03	2.197E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	2.072E+11	2.075E+11	1.093E+11	1.095E+11	5.608E+10	5.624E+10	2.674E+10	2.683E+10	1.601E+10	1.607E+10	7.908F+09	7.947E+09
2	1.295E+10	1.299E+10	5.829E+09	6.855E+09	3.506E+09	3.522E+09	1.671E+09	1.682E+09	1.000E+09	1.008E+09	4.943E+08	4.988E+08
3	2.559E+09	2.569E+09	1.349E+09	1.356E+09	6.927E+08	6.974E+08	3.302E+08	3.333E+08	1.977E+08	1.999F+08	9.767F+07	9.901E+07
4	8.099E+08	8.140E+08	4.271E+08	4.299E+08	2.192E+08	2.212E+08	1.045E+08	1.058E+08	6.257E+07	6.351F+07	3.091F+07	3.149E+07
6	1.601E+08	1.612E+08	8.445E+07	8.526E+07	4.335E+07	4.394E+07	2.067E+07	2.106E+07	1.237E+07	1.266E+07	6.113F+06	6.290E+06
8	5.074E+07	5.119E+07	2.676E+07	2.711E+07	1.374E+07	1.400E+07	6.548E+06	6.725E+06	3.920E+06	4.048E+06	1.937F+06	2.014E+06
10	2.082E+07	2.105E+07	1.098E+07	1.117E+07	5.636E+06	5.779E+06	2.687E+06	2.782E+06	1.609E+06	1.677E+06	7.948F+05	8.359E+05
15	4.139E+06	4.221E+06	2.183E+06	2.250E+06	1.120E+06	1.149E+06	5.342E+05	5.657E+05	3.198E+05	3.419F+05	1.580F+05	1.710E+05
20	1.321E+06	1.364E+06	6.968E+05	7.299E+05	3.577E+05	3.809E+05	1.705E+05	1.840E+05	1.021E+05	1.120F+05	5.044F+04	5.613E+04
30	2.677E+05	2.860E+05	1.412E+05	1.534E+05	7.248E+04	8.045E+04	3.455E+04	3.920E+04	2.068E+04	2.378F+04	1.022F+04	1.194E+04
45	5.602E+04	6.258E+04	2.954E+04	3.377E+04	1.516E+04	1.771E+04	7.229E+03	8.614E+03	4.328E+03	5.216F+03	2.138F+03	2.609E+03
60	1.922E+04	2.227E+04	1.014E+04	1.197E+04	5.204E+03	6.242E+03	2.481E+03	3.012E+03	1.465E+03	1.812E+03	7.338E+02	8.981E+02
75	8.748E+03	1.034E+04	4.613E+03	5.512E+03	2.368E+03	2.845E+03	1.129E+03	1.354E+03	6.758E+02	8.063E+02	3.339F+02	3.934E+02
90	4.806E+03	5.714E+03	2.534E+03	3.011E+03	1.301E+03	1.543E+03	6.202E+02	7.150E+02	3.713E+02	4.192E+02	1.934E+02	1.999E+02
120	1.180E+03	1.593E+03	1.126E+03	1.282E+03	5.782E+02	6.248E+02	2.756E+02	2.771E+02	1.650E+02	1.553E+02	8.153E+01	8.887E+01
150	1.377E+02	1.773E+02	7.274E+02	7.892E+02	3.716E+02	3.706E+02	1.781E+02	1.542E+02	1.066E+02	1.016F+01	5.264F+01	3.271E+01
179	1.202E+03	1.377E+03	6.337E+02	6.734E+02	3.253E+02	3.106E+02	1.551E+02	1.256E+02	9.243F+01	8.463E+01	4.587F+01	2.439E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+01MEV		1.5E+00MEV		2.0E+00MEV	
1	4.851E+09	4.877E+09	3.338E+09	3.357E+09	1.909E+09	1.921E+09	1.056E+09	1.063E+09	5.344E+08	5.381E+08	3.264E+08	3.287E+08
2	3.032E+08	3.064E+08	2.086E+08	2.109E+08	1.193E+08	1.207E+08	6.602E+07	6.685E+07	3.341E+07	3.385E+07	2.040E+07	2.068E+07
3	5.992E+07	6.084E+07	4.122E+07	4.191E+07	2.357E+07	2.400E+07	1.304E+07	1.329E+07	6.600E+06	6.733E+06	4.031E+06	4.114E+06
4	1.896E+07	1.936E+07	1.305E+07	1.334E+07	7.462E+06	7.644E+06	4.126E+06	4.236E+06	2.089E+06	2.146E+06	1.276E+06	1.311E+06
6	3.750E+06	3.872E+06	2.580E+06	2.670E+06	1.475E+06	1.541E+06	8.163E+05	8.489E+05	4.131E+05	4.307E+05	2.523E+05	2.630E+05
8	1.188E+06	1.241E+06	8.175E+05	8.546E+05	4.575E+05	4.916E+05	2.587E+05	2.728E+05	1.309E+05	1.383E+05	7.995E+04	8.456E+04
10	4.876E+05	5.156E+05	3.355E+05	3.560E+05	1.918E+05	2.045E+05	1.061E+05	1.135E+05	5.371E+04	5.757E+04	3.291E+04	3.520E+04
15	9.692E+04	1.057E+05	6.669E+04	7.304E+04	3.814E+04	4.201E+04	2.110E+04	2.334E+04	1.068E+04	1.185E+04	6.522E+03	7.248E+03
20	3.094E+04	3.472E+04	2.129E+04	2.402E+04	1.217E+04	1.383E+04	6.736E+03	7.688E+03	3.409E+03	3.904E+03	2.082E+03	2.389E+03
30	6.269E+03	7.389E+03	4.314E+03	5.113E+03	2.467E+03	2.944E+03	1.365E+03	1.637E+03	6.907E+02	8.313E+02	4.218E+02	5.086E+02
45	1.312E+03	1.611E+03	9.026E+02	1.112E+03	5.161E+02	6.387E+02	2.856E+02	3.544E+02	1.445E+02	1.796E+02	8.826E+01	1.098E+02
60	4.501E+02	5.509E+02	3.097E+02	3.787E+02	1.771E+02	2.141E+02	9.799E+01	1.193E+02	4.959E+01	6.023E+01	3.029E+01	3.675E+01
75	2.048E+02	2.387E+02	1.409E+02	1.628E+02	8.040E+01	9.196E+01	4.459E+01	5.033E+01	2.257E+01	2.524E+01	1.378E+01	1.535E+01
90	1.125E+02	1.194E+02	7.743E+01	8.046E+01	4.428E+01	4.473E+01	2.450E+01	2.415E+01	1.240E+01	1.198E+01	7.572E+00	7.247E+00
120	5.001E+01	3.890E+01	3.441E+01	2.510E+01	1.968E+01	1.311E+01	1.080E+01	6.683E+00	5.100E+00	3.156E+00	3.365E+00	1.864E+00
150	3.232E+01	1.686E+01	2.224E+01	1.002E+01	1.272E+01	4.568E+00	7.035E+00	1.989E+00	3.560E+00	7.963E+00	2.175E+00	4.268E+00
179	2.814E+01	1.182E+01	1.936E+01	6.586E+00	1.107E+01	2.618E+00	6.125E+00	9.288E+00	3.100E+00	2.652E+00	1.893E+00	1.039E+00
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	1.601E+08	1.613E+08	9.537E+07	9.605E+07	6.335E+07	6.381E+07	3.383E+07	3.408E+07	1.720E+07	1.732E+07	7.878E+06	7.935E+06
2	1.001E+07	1.015E+07	5.961E+06	6.044E+06	3.960E+06	4.015E+06	2.115E+06	2.144E+06	1.075E+06	1.090E+06	4.924E+05	4.993E+05
3	1.978E+06	2.019E+06	1.178E+06	1.203E+06	7.825E+05	7.989E+05	4.179E+05	4.267E+05	2.124E+05	2.169E+05	9.729E+04	9.935E+04
4	6.260E+05	6.435E+05	3.728E+05	3.833E+05	2.477E+05	2.577E+05	1.323E+05	1.360E+05	6.723E+04	6.915E+04	3.080E+04	3.167E+04
6	1.238E+05	1.291E+05	7.372E+04	7.691E+04	4.867E+04	5.110E+04	2.615E+04	2.729E+04	1.329E+04	1.387E+04	6.089E+03	6.355E+03
8	3.922E+04	4.151E+04	2.336E+04	2.473E+04	1.552E+04	1.643E+04	8.287E+03	8.778E+03	4.212E+03	4.462E+03	1.920E+03	2.044E+03
10	1.609E+04	1.729E+04	9.585E+03	1.030E+04	6.367E+03	6.843E+03	3.401E+03	3.555E+03	1.729E+03	1.858E+03	7.917E+02	8.512E+02
15	3.199E+03	3.560E+03	1.905E+03	2.121E+03	1.266E+03	1.410E+03	6.760E+02	7.530E+02	3.436E+02	3.828E+02	1.574E+02	1.753E+02
20	1.021E+03	1.173E+03	6.083E+02	6.992E+02	4.041E+02	4.646E+02	2.158E+02	2.482E+02	1.097E+02	1.262E+02	5.024E+01	5.780E+01
30	2.069E+02	2.498E+02	1.232E+02	1.489E+02	8.187E+01	9.882E+01	4.373E+01	5.284E+01	2.223E+01	2.688E+01	1.018E+01	1.231E+01
45	4.330E+01	5.390E+01	2.579E+01	3.211E+01	1.713E+01	2.133E+01	9.149E+00	1.139E+01	4.651E+00	5.792E+00	2.130E+00	2.635E+00
60	1.486E+01	1.801E+01	8.849E+00	1.072E+01	5.878E+00	7.120E+00	3.139E+00	3.802E+00	1.596E+00	1.932E+00	7.309E+00	8.850E+00
75	6.762E+00	7.502E+00	4.027E+00	4.461E+00	2.675E+00	2.961E+00	1.429E+00	1.580E+00	7.262E+00	8.029E+00	3.324E+00	3.677E+00
90	3.714E+00	3.525E+00	2.212E+00	2.092E+00	1.470E+00	1.387E+00	7.809E+00	7.397E+00	3.990E+00	3.757E+00	1.827E+00	1.720E+00
120	1.651E+00	8.867E+00	9.832E+00	5.214E+00	6.531E+00	3.441E+00	3.488E+00	1.826E+00	1.773E+00	9.249E+00	8.121E+00	4.228E+00
150	1.067E+00	1.839E+00	6.353E+00	1.032E+00	4.220E+00	6.647E+00	2.254E+00	3.444E+00	1.146E+00	1.720E+00	5.248E+00	7.799E+00
179	9.287E+00	2.614E+02	5.531E+00	9.465E+00	3.675E+00	4.233E+00	1.962E+00	1.232E+00	9.975E+00	3.282E+00	4.569E+00	7.324E+00
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	4.501E+06	4.533E+06	2.033E+06	2.047E+06	1.153E+06	1.161E+06	7.414E+05	7.467E+05	3.804E+05	3.832E+05	1.872E+05	1.886E+05
2	2.813E+05	2.853E+05	1.271E+05	1.288E+05	7.205E+04	7.306E+04	4.634E+04	4.699E+04	2.378E+04	2.411E+04	1.170E+04	1.187E+04
3	5.559E+04	5.676E+04	2.510E+04	2.563E+04	1.424E+04	1.454E+04	9.157E+03	9.350E+03	4.698E+03	4.798E+03	2.312E+03	2.361E+03
4	1.759E+04	1.810E+04	7.946E+03	8.172E+03	4.506E+03	4.635E+03	2.896E+03	2.981E+03	1.467E+03	1.530E+03	7.318E+02	7.527E+02
6	3.479E+03	3.631E+03	1.571E+03	1.640E+03	8.910E+02	9.380E+02	5.731E+02	5.981E+02	2.941E+02	3.069E+02	1.447E+02	1.510E+02
8	1.102E+03	1.168E+03	4.978E+02	5.274E+02	2.823E+02	2.991E+02	1.816E+02	1.924E+02	9.317E+01	9.871E+01	4.585E+01	4.858E+01
10	4.524E+02	4.863E+02	2.043E+02	2.196E+02	1.159E+02	1.246E+02	7.451E+01	8.011E+01	3.823E+01	4.111E+01	1.881E+01	2.023E+01
15	8.992E+01	1.002E+02	4.061E+01	4.525E+01	2.303E+01	2.586E+01	1.481E+01	1.650E+01	7.600E+00	8.468E+00	3.740E+00	4.167E+00
20	2.871E+01	3.303E+01	1.296E+01	1.492E+01	7.352E+00	8.449E+00	4.725E+00	5.440E+00	2.426E+00	2.792E+00	1.194E+00	1.374E+00
30	5.817E+00	7.031E+00	2.627E+00	3.175E+00	1.490E+00	1.881E+00	9.581E+00	1.158E+00	4.916E+00	5.943E+00	2.419E+00	2.925E+00
45	1.217E+00	1.611E+00	5.496E+00	6.846E+00	3.117E+00	3.882E+00	2.005E+00	2.497E+00	1.029E+00	1.241E+00	5.062E+00	6.305E+00
60	4.176E+00	5.056E+00	1.886E+00	2.283E+00	1.070E+00	1.295E+00	6.870E+00	8.328E+00	3.530E+00	4.213E+00	1.737E+00	2.103E+00
75	1.901E+00	2.100E+00	8.583E+00	9.485E+00	4.867E+00	5.379E+00	3.131E+00	3.460E+00	1.606E+00	1.775E+00	7.905E+00	8.736E+00
90	1.044E+00	9.823E+00	4.715E+00	4.436E+00	2.674E+00	2.515E+00	1.720E+00	1.618E+00	8.824E+00	8.301E+00	4.343E+00	4.085E+00
120	4.640E+00	2.414E+02	2.096E+00	1.090E+00	1.188E+00	6.178E+00	7.643E+00	3.973E+00	3.922E+00	2.038E+00	1.930E+00	1.003E+00
150	2.998E+00	4.440E+00	1.354E+00	1.999E+00	7.679E+00	1.113E+00	4.939E+00	7.735E+00	2.514E+00	3.735E+00	1.247E+00	1.838E+00
179	2.611E+00	2.584E+00	1.179E+00	6.375E+00	6.686E+00	2.544E+00	4.390E+00	1.314E+00	2.206E+00	5.293E+00	1.086E+00	2.223E+00

AG (47)

(BARNES/STERADIAN)

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	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	4.945E+14	4.948E+14	2.200E+14	2.201E+14	1.239E+14	1.240E+14	5.516E+13	5.520E+13	3.109E+13	3.111E+13	1.994E+13	1.995E+13
2	3.091E+13	3.093E+13	1.375E+13	1.376E+13	7.743E+12	7.748E+12	3.444E+12	3.451E+12	1.943E+12	1.945E+12	1.246E+12	1.247E+12
3	6.108E+12	6.112E+12	2.717E+12	2.719E+12	1.530E+12	1.531E+12	6.813E+11	6.818E+11	3.840E+11	3.843E+11	2.462E+11	2.464E+11
4	1.933E+12	1.934E+12	8.601E+11	8.606E+11	4.843E+11	4.846E+11	2.156E+11	2.158E+11	1.215E+11	1.217E+11	7.793E+10	7.801E+10
6	3.823E+11	3.825E+11	1.701E+11	1.702E+11	9.575E+10	9.583E+10	4.264E+10	4.268E+10	2.403E+10	2.406E+10	1.541E+10	1.543E+10
8	1.211E+11	1.212E+11	5.388E+10	5.393E+10	3.074E+10	3.077E+10	1.351E+10	1.352E+10	7.614E+09	7.626E+09	4.863E+09	4.891E+09
10	4.970E+10	4.975E+10	2.211E+10	2.213E+10	1.245E+10	1.246E+10	5.544E+09	5.551E+09	3.125E+09	3.131E+09	2.004E+09	2.007E+09
15	9.880E+09	9.888E+09	4.396E+09	4.400E+09	2.475E+09	2.478E+09	1.102E+09	1.104E+09	6.211E+08	6.220E+08	3.983E+08	3.990E+08
20	3.154E+09	3.158E+09	1.403E+09	1.405E+09	7.901E+08	7.919E+08	3.518E+08	3.522E+08	1.983E+08	1.987E+08	1.271E+08	1.277E+08
30	6.391E+08	6.401E+08	2.843E+08	2.848E+08	1.601E+08	1.601E+08	7.129E+07	7.157E+07	4.018E+07	4.044E+07	2.576E+07	2.594E+07
45	1.337E+08	1.336E+08	5.949E+07	5.961E+07	3.350E+07	3.372E+07	1.492E+07	1.501E+07	8.406E+06	8.413E+06	5.391E+06	5.374E+06
60	4.589E+07	4.613E+07	2.041E+07	2.060E+07	1.149E+07	1.163E+07	5.118E+06	5.079E+06	2.885E+06	2.853E+06	1.850E+06	1.834E+06
75	2.088E+07	2.104E+07	9.290E+06	9.211E+06	5.231E+06	5.179E+06	2.329E+06	2.286E+06	1.313E+06	1.301E+06	8.418E+05	8.440E+05
90	1.147E+07	1.149E+07	5.103E+06	4.937E+06	2.873E+06	2.795E+06	1.280E+06	1.272E+06	7.212E+05	7.321E+05	4.624E+05	4.783E+05
120	5.098E+06	5.125E+06	2.268E+06	2.369E+06	1.277E+06	1.349E+06	5.687E+05	5.314E+05	3.205E+05	3.641E+05	2.655E+05	2.733E+05
150	3.294E+06	3.959E+06	1.466E+06	1.800E+06	8.252E+05	1.078E+06	3.675E+05	4.660E+05	2.071E+05	2.654E+05	1.328E+05	1.713E+05
179	2.868E+06	3.715E+06	1.276E+06	1.675E+06	7.185E+05	5.511E+05	3.199E+05	4.278E+05	1.803E+05	2.424E+05	1.156E+05	1.559E+05
DEG	7.0E-03MEV		1.9E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.021E+13	1.022E+13	5.032E+12	5.036E+12	2.258E+12	2.240E+12	1.282E+12	1.283E+12	5.801E+11	5.809E+11	3.322E+11	3.327E+11
2	6.382E+11	6.388E+11	3.145E+11	3.149E+11	1.411E+11	1.413E+11	8.012E+10	8.024E+10	3.626E+10	3.634E+10	2.076E+10	2.082E+10
3	1.261E+11	1.262E+11	6.215E+10	6.223E+10	2.788E+10	2.793E+10	1.583E+10	1.586E+10	7.165E+09	7.187E+09	4.102E+09	4.117E+09
4	3.991E+10	3.997E+10	1.967E+10	1.970E+10	8.825E+09	8.843E+09	5.011E+09	5.025E+09	2.268E+09	2.277E+09	1.298E+09	1.304E+09
6	7.892E+09	7.905E+09	3.889E+09	3.897E+09	1.745E+09	1.751E+09	9.908E+08	9.949E+08	4.484E+08	4.507E+08	2.567E+08	2.582E+08
8	2.501E+09	2.505E+09	1.232E+09	1.236E+09	5.529E+08	5.544E+08	3.139E+08	3.155E+08	1.421E+08	1.429E+08	8.135E+07	8.191E+07
10	1.026E+09	1.028E+09	5.057E+08	5.076E+08	2.269E+08	2.281E+08	1.288E+08	1.295E+08	5.831E+07	5.846E+07	3.338E+07	3.365E+07
15	2.040E+08	2.044E+08	1.005E+08	1.011E+08	4.510E+07	4.535E+07	2.561E+07	2.574E+07	1.159E+07	1.169E+07	6.436E+06	6.473E+06
20	6.112E+07	6.555E+07	3.269E+07	3.227E+07	1.440E+07	1.445E+07	8.175E+06	8.214E+06	3.708E+06	3.746E+06	2.118E+06	2.165E+06
30	1.320E+07	1.324E+07	6.503E+06	6.505E+06	2.918E+06	2.928E+06	1.656E+06	1.676E+06	7.497E+05	7.732E+05	4.293E+05	4.502E+05
45	2.761E+06	2.749E+06	1.361E+06	1.365E+06	6.104E+05	6.244E+05	3.468E+05	3.613E+05	1.569E+05	1.688E+05	8.982E+04	9.874E+04
60	9.474E+05	9.502E+05	4.669E+05	4.783E+05	2.095E+05	2.214E+05	1.189E+05	1.287E+05	5.383E+04	6.025E+04	3.082E+04	3.527E+04
75	4.311E+05	4.27E+05	2.125E+05	2.247E+05	9.533E+04	1.044E+05	5.612E+04	6.067E+04	2.450E+04	2.829E+04	1.403E+04	1.648E+04
90	2.368E+05	2.523E+05	1.167E+05	1.282E+05	5.237E+04	5.919E+04	2.973E+04	3.438E+04	1.346E+04	1.589E+04	7.705E+03	9.191E+03
120	1.053E+05	1.202E+05	5.188E+04	6.232E+04	2.327E+04	2.814E+04	1.321E+04	1.616E+04	5.981E+03	7.285E+03	3.424E+03	4.126E+03
150	6.802E+04	8.833E+04	3.352E+04	4.362E+04	1.564E+04	1.946E+04	8.539E+03	1.093E+04	3.865E+03	4.811E+03	2.213E+03	2.872E+03
179	5.922E+04	7.990E+04	2.918E+04	3.921E+04	1.309E+04	1.710E+04	7.434E+03	9.992E+03	3.365E+03	4.227E+03	1.927E+03	2.329E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	2.163E+11	2.167E+11	1.141E+11	1.143E+11	5.855E+10	5.870E+10	2.791E+10	2.801E+10	1.671E+10	1.678E+10	8.256E+09	8.296E+09
2	1.352E+10	1.356E+10	7.130E+09	7.157E+09	3.660E+09	3.677E+09	1.745E+09	1.756E+09	1.044E+09	1.052E+09	5.161E+08	5.207E+08
3	2.671E+09	2.682E+09	1.409E+09	1.416E+09	7.231E+08	7.240E+08	3.447E+08	3.479E+08	2.064E+08	2.087E+08	1.020E+08	1.034E+08
4	8.455E+08	8.498E+08	4.459E+08	4.488E+08	2.269E+08	2.309E+08	1.191E+08	1.195E+08	6.532E+07	6.630E+07	3.227E+07	3.287E+07
6	1.672E+08	1.683E+08	8.816E+07	8.899E+07	4.528E+07	4.587E+07	2.157E+07	2.199E+07	1.292E+07	1.322E+07	6.381E+06	6.567E+06
8	5.297E+07	5.343E+07	2.793E+07	2.829E+07	1.434E+07	1.461E+07	6.836E+06	7.019E+06	4.092E+06	4.228E+06	2.022E+06	2.103E+06
10	2.174E+07	2.197E+07	1.146E+07	1.166E+07	5.884E+06	6.031E+06	2.805E+06	2.904E+06	1.678E+06	1.751E+06	8.297E+05	8.729E+05
15	4.321E+06	4.403E+06	2.279E+06	2.347E+06	1.170E+06	1.220E+06	5.576E+05	5.906E+05	3.338E+05	3.571E+05	1.649E+05	1.787E+05
20	2.795E+06	2.973E+05	1.478E+05	1.602E+05	3.734E+05	3.978E+05	1.780E+05	1.931E+05	1.086E+05	1.170E+05	5.265E+04	5.870E+04
30	5.848E+04	6.540E+04	3.088E+04	3.533E+04	7.566E+04	8.407E+04	3.607E+04	4.100E+04	2.159E+04	2.490E+04	1.067E+04	1.251E+04
45	5.848E+04	6.540E+04	3.088E+04	3.533E+04	1.583E+04	1.855E+04	7.547E+03	9.037E+03	4.518E+03	5.477E+03	2.232E+03	2.743E+03
60	2.007E+04	2.332E+04	1.058E+04	1.256E+04	5.432E+03	6.567E+03	2.590E+03	3.169E+03	1.550E+03	1.908E+03	7.663E+02	9.448E+02
75	9.132E+03	1.085E+04	4.816E+03	5.795E+03	3.472E+03	3.995E+03	1.174E+03	1.428E+03	7.055E+02	8.509E+02	3.486E+02	4.157E+02
90	5.017E+03	6.011E+03	2.646E+03	3.171E+03	1.358E+03	1.615E+03	6.474E+02	7.553E+02	3.876E+02	4.433E+02	2.117E+02	2.570E+02
120	2.230E+03	2.649E+03	1.178E+03	1.354E+03	6.038E+02	6.639E+02	2.878E+02	2.934E+02	1.723E+02	1.645E+02	8.511E+01	7.304E+01
150	1.441E+03	1.686E+03	7.598E+02	8.358E+02	3.960E+02	3.936E+02	1.854E+02	1.834E+02	1.113E+02	8.589E+01	5.500E+01	3.468E+01
179	1.254E+03	1.459E+03	6.615E+02	7.138E+02	3.364E+02	3.292E+02	1.619E+02	1.331E+02	9.691E+01	6.849E+01	4.788E+01	2.584E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-00MEV		1.5E-00MEV		2.0E-00MEV	
1	5.044E+09	5.092E+09	3.485E+09	3.504E+09	1.903E+09	2.005E+09	1.102E+09	1.110E+09	5.579E+08	5.618E+08	3.408E+08	3.432E+08
2	3.166E+08	3.198E+08	2.178E+08	2.202E+08	1.246E+08	1.241E+08	6.849E+07	6.979E+07	3.487E+07	3.534E+07	2.130E+07	2.159E+07
3	6.255E+07	6.352E+07	4.304E+07	4.375E+07	2.461E+07	2.508E+07	1.302E+07	1.388E+07	6.801E+06	7.039E+06	4.209E+06	4.295E+06
4	1.980E+07	2.021E+07	1.362E+07	1.393E+07	7.790E+06	7.915E+06	4.310E+06	4.422E+06	2.181E+06	2.241E+06	1.332E+06	1.369E+06
6	3.915E+06	4.042E+06	2.693E+06	2.788E+06	1.540E+06	1.599E+06	8.522E+05	8.865E+05	4.313E+05	4.404E+05	2.634E+05	2.747E+05
8	1.240E+06	1.296E+06	8.534E+05	8.946E+05	4.881E+05	5.139E+05	2.700E+05	2.849E+05	1.366E+05	1.445E+05	8.346E+04	8.833E+04
10	5.090E+05	5.384E+05	3.502E+05	3.718E+05	2.003E+05	2.136E+05	1.108E+05	1.186E+05	5.607E+04	6.018E+04	3.425E+04	3.679E+04
15	1.012E+05	1.104E+05	6.962E+04	7.635E+04	3.981E+04	4.392E+04	2.203E+04	2.441E+04	1.115E+04	1.239E+04	6.808E+03	7.581E+03
20	3.230E+04	3.632E+04	2.222E+04	2.513E+04	1.271E+04	1.447E+04	7.032E+03	8.048E+03	3.558E+03	4.084E+03	2.173E+03	2.501E+03
30	6.545E+03	7.746E+03	4.503E+03	5.362E+03	2.575E+03	3.088E+03	1.425E+03	1.718E+03	7.210E+02	8.725E+02	4.404E+02	5.338E+02
45	1.369E+03	1.694E+03	9.422E+02	1.171E+03	5.388E+02	6.754E+02	2.981E+02	3.732E+02	1.508E+02	1.892E+02	9.214E+01	1.157E+02
60	4.699E+02	5.811E+02	2.331E+02	3.997E+02	1.849E+02	2.282E+02	1.023E+02	1.240E+02	5.177E+01	6.345E+01	3.162E+01	3.884E+01
75	2.138E+02	2.524E+02	1.471E+02	1.723E+02	8.414E+01	9.747E+01	4.655E+01	5.332E+01	2.358E+01	2.675E+01	1.439E+01	1.627E+01
90	1.175E+02	1.265E+02	8.083E+01	8.536E+01	4.622E+01	4.745E+01	2.557E+01	2.564E+01	1.294E+01	1.272E+01	7.905E+00	7.700E+00
120	5.221E+01	4.129E+01	3.592E+01	2.666E+01	2.054E+01	1.364E+01	1.137E+01	7.113E+00	5.752E+00	3.363E+00	3.513E+00	1.986E+00
150	3.374E+01	1.788E+01	2.321E+01	1.064E+01	1.327E+01	4.841E+00	3.745E+00	2.115E+00	3.717E+00	3.648E+00	2.718E+00	4.550E+00
179	2.937E+01	1.252E+01	2.021E+01	6.976E+00	1.156E+01	2.773E+00	6.395E+00	9.837E+01	3.236E+00	2.808E+01	1.54E+00	1.101E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	1.672E+08	1.684E+08	9.956E+07	1.003E+08	6.614E+07	6.662E+07	3.532E+07	3.558E+07	1.795E+07	1.809E+07	8.224E+06	8.284E+06
2	1.045E+07	1.059E+07	6.223E+06	6.310E+06	4.134E+06	4.192E+06	2.208E+06	2.239E+06	1.122E+06	1.138E+06	5.141E+05	5.213E+05
3	2.065E+06	2.108E+06	1.230E+06	1.256E+06	8.168E+05	8.361E+05	4.362E+05	4.455E+05	2.218E+05	2.265E+05	1.016E+05	1.037E+05
4	6.535E+05	6.720E+05	3.892E+05	4.003E+05	2.585E+05	2.669E+05	1.381E+05	1.420E+05	7.019E+04	7.220E+04	3.215E+04	3.307E+04
6	1.292E+05	1.348E+05	7.696E+04	8.033E+04	5.112E+04	5.337E+04	2.730E+04	2.851E+04	1.388E+04	1.449E+04	6.357E+03	6.638E+03
8	4.094E+04	4.337E+04	2.438E+04	2.584E+04	1.620E+04	1.717E+04	8.651E+03	9.170E+03	4.397E+03	4.662E+03	2.014E+03	2.135E+03
10	1.190E+04	1.806E+04	1.001E+04	1.076E+04	6.647E+03	7.151E+03	3.550E+03	3.829E+03	1.805E+03	1.962E+03	8.265E+02	8.895E+02
15	3.368E+03	3.724E+03	1.989E+03	2.219E+03	1.321E+03	1.474E+03	7.057E+02	7.876E+02	3.587E+02	4.004E+02	1.643E+02	1.834E+02
20	1.066E+03	1.229E+03	6.350E+02	7.322E+02	4.218E+02	4.845E+02	2.253E+02	2.599E+02	1.145E+02	1.321E+02	5.245E+01	6.053E+01
30	2.160E+02	2.622E+02	1.287E+02	1.563E+02	8.547E+01	1.038E+02	4.565E+01	5.547E+01	2.320E+01	2.828E+01	1.063E+01	1.292E+01
45	4.520E+01	5.679E+01	2.692E+01	3.383E+01	1.788E+01	2.248E+01	9.551E+00	1.201E+01	4.855E+00	6.103E+00	2.224E+00	2.796E+00
60	1.551E+01	1.904E+01	9.238E+00	1.133E+01	6.137E+00	7.598E+00	3.277E+00	4.020E+00	1.666E+00	2.043E+00	7.631E+00	9.357E+00
75	7.059E+00	7.954E+00	4.204E+00	4.730E+00	2.763E+00	3.140E+00	1.491E+00	1.676E+00	7.581E+01	8.514E+01	3.473E+01	3.899E+01
90	3.878E+00	3.747E+00	2.309E+00	2.224E+00	1.534E+00	1.475E+00	8.193E+01	7.863E+01	4.165E+01	3.993E+01	1.908E+01	1.828E+01
120	1.723E+00	9.456E+01	1.026E+00	5.561E+01	6.819E+01	3.670E+01	3.342E+01	1.948E+01	1.851E+01	9.867E+02	8.478E+02	5.111E+02
150	1.114E+00	1.962E+01	6.632E+01	1.102E+01	4.406E+01	1.101E+02	2.353E+01	3.680E+02	1.196E+01	1.838E+02	5.479E+02	8.337E+03
179	9.696E+01	2.768E+02	5.775E+01	1.002E+02	3.936E+01	4.483E+03	2.049E+01	1.305E+02	1.041E+01	3.677E+04	4.770E+02	7.764E+05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	4.699E+06	4.733E+06	2.122E+06	2.137E+06	1.203E+06	1.212E+06	7.740E+05	7.796E+05	3.971E+05	4.000E+05	1.954E+05	1.969E+05
2	2.937E+05	2.978E+05	1.326E+05	1.345E+05	7.522E+04	7.582E+04	4.838E+04	4.906E+04	2.482E+04	2.517E+04	1.222E+04	1.239E+04
3	5.803E+04	5.927E+04	2.621E+04	2.677E+04	1.488E+04	1.518E+04	9.559E+03	9.763E+03	4.905E+03	5.009E+03	2.414E+03	2.465E+03
4	1.837E+04	1.890E+04	8.295E+03	8.534E+03	4.704E+03	4.849E+03	3.026E+03	3.113E+03	1.552E+03	1.537E+03	7.640E+02	7.860E+02
6	3.632E+03	3.792E+03	1.640E+03	1.713E+03	9.302E+02	9.713E+02	5.983E+02	6.267E+02	3.070E+02	3.205E+02	1.511E+02	1.577E+02
8	1.151E+03	1.220E+03	5.197E+02	5.510E+02	2.947E+02	3.125E+02	1.896E+02	2.010E+02	9.727E+01	1.031E+02	4.787E+01	5.075E+01
10	4.722E+02	5.082E+02	2.133E+02	2.295E+02	1.209E+02	1.302E+02	7.779E+01	8.372E+01	3.991E+01	4.288E+01	1.964E+01	2.114E+01
15	9.387E+01	1.048E+02	4.239E+01	4.733E+01	2.404E+01	2.684E+01	1.546E+01	1.726E+01	7.934E+00	8.854E+00	3.905E+00	4.359E+00
20	2.997E+01	3.459E+01	1.353E+01	1.562E+01	7.675E+00	8.888E+00	4.936E+00	5.697E+00	2.533E+00	2.823E+00	1.246E+00	1.439E+00
30	6.072E+00	7.381E+00	2.742E+00	3.334E+00	1.555E+00	1.890E+00	1.000E+00	1.216E+00	5.132E+00	6.239E+00	2.526E+00	3.070E+00
45	1.271E+00	1.597E+00	5.738E+00	7.214E+01	3.254E+01	4.091E+01	2.093E+01	2.631E+01	1.074E+01	1.350E+01	5.285E+02	6.644E+02
60	4.360E+01	5.346E+01	1.969E+01	2.414E+01	1.117E+01	1.349E+01	7.181E+00	8.806E+00	3.685E+00	4.518E+00	1.813E+00	2.244E+00
75	1.984E+01	2.227E+01	8.960E+00	1.006E+01	5.081E+00	5.704E+00	3.268E+00	3.669E+00	1.677E+00	1.882E+00	8.252E+03	9.264E+03
90	1.090E+01	1.044E+01	4.922E+00	4.715E+00	2.791E+00	2.874E+00	1.795E+00	1.720E+00	9.212E+03	8.874E+03	4.533E+03	4.342E+03
120	4.844E+02	5.575E+02	2.188E+02	1.162E+02	1.241E+02	6.591E+03	7.797E+03	4.238E+03	4.094E+03	2.175E+03	2.015E+03	1.070E+03
150	3.138E+02	4.746E+03	1.414E+02	2.138E+03	8.017E+03	1.211E+03	5.156E+03	7.785E+04	2.646E+03	3.993E+04	1.302E+03	1.965E+04
179	2.725E+02	2.741E+05	1.231E+02	6.773E+06	6.980E+03	2.707E+06	4.489E+03	1.400E+06	2.303E+03	5.646E+07	1.134E+03	2.374E+07

CD (48)

(BARNES/STERRADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	5.158E+14	5.161E+14	2.295E+14	2.296E+14	1.292E+14	1.293E+14	5.753E+13	5.757E+13	3.243E+13	3.245E+13	2.079E+13	2.081E+13
2	3.224E+13	3.226E+13	1.434E+13	1.435E+13	9.076E+12	9.078E+12	3.596E+12	3.599E+12	2.027E+12	2.028E+12	1.300E+12	1.301E+12
3	6.370E+12	6.374E+12	2.834E+12	2.836E+12	1.506E+12	1.507E+12	7.106E+11	7.111E+11	4.005E+11	4.008E+11	2.568E+11	2.570E+11
4	2.018E+12	2.018E+12	8.970E+11	8.977E+11	5.051E+11	5.055E+11	2.249E+11	2.251E+11	1.268E+11	1.269E+11	8.128E+10	8.136E+10
6	3.987E+11	3.990E+11	1.774E+11	1.775E+11	9.987E+10	9.995E+10	4.447E+10	4.452E+10	2.506E+10	2.509E+10	1.607E+10	1.610E+10
8	1.263E+11	1.264E+11	5.620E+10	5.625E+10	3.164E+10	3.168E+10	1.409E+10	1.411E+10	7.942E+09	7.954E+09	5.093E+09	5.102E+09
10	5.184E+10	5.188E+10	2.306E+10	2.308E+10	1.299E+10	1.300E+10	5.782E+09	5.790E+09	3.259E+09	3.265E+09	2.090E+09	2.094E+09
15	1.031E+10	1.031E+10	4.585E+09	4.590E+09	2.581E+09	2.584E+09	1.149E+09	1.152E+09	6.478E+08	6.488E+08	4.154E+08	4.161E+08
20	3.298E+09	3.295E+09	1.464E+09	1.465E+09	8.240E+08	8.246E+08	3.670E+08	3.674E+08	2.068E+08	2.072E+08	1.326E+08	1.331E+08
30	6.666E+08	6.674E+08	2.966E+08	2.972E+08	1.670E+08	1.670E+08	7.436E+07	7.461E+07	4.191E+07	4.228E+07	2.687E+07	2.707E+07
45	1.395E+08	1.394E+08	6.205E+07	6.213E+07	3.494E+07	3.515E+07	1.556E+07	1.567E+07	8.768E+06	8.784E+06	5.622E+06	5.608E+06
60	4.786E+07	4.807E+07	2.129E+07	2.150E+07	1.199E+07	1.204E+07	5.338E+06	5.301E+06	3.009E+06	2.975E+06	1.929E+06	1.910E+06
75	2.178E+07	2.199E+07	9.489E+06	9.623E+06	5.456E+06	5.362E+06	2.429E+06	2.381E+06	1.349E+06	1.353E+06	8.780E+05	8.778E+05
90	1.196E+07	1.168E+07	5.323E+06	5.142E+06	2.997E+06	2.907E+06	1.335E+06	1.321E+06	7.522E+05	7.611E+05	4.823E+05	4.975E+05
120	5.318E+06	5.334E+06	2.366E+06	2.465E+06	1.332E+06	1.456E+06	5.932E+05	6.588E+05	3.343E+05	3.804E+05	2.144E+05	2.482E+05
150	3.36E+06	4.150E+06	1.529E+06	1.889E+06	8.607E+05	1.080E+06	3.833E+05	4.900E+05	2.160E+05	2.793E+05	1.385E+05	1.803E+05
179	2.492E+06	3.910E+06	1.331E+06	1.764E+06	7.494E+05	1.002E+06	3.337E+05	4.512E+05	1.881E+05	2.558E+05	1.206E+05	1.645E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.065E+13	1.066E+13	5.248E+12	5.252E+12	2.355E+12	2.357E+12	1.337E+12	1.338E+12	6.051E+11	6.059E+11	3.464E+11	3.470E+11
2	6.657E+11	6.663E+11	3.281E+11	3.284E+11	1.472E+11	1.474E+11	8.357E+10	8.370E+10	3.782E+10	3.780E+10	2.166E+10	2.171E+10
3	1.315E+11	1.317E+11	6.482E+10	6.491E+10	2.908E+10	2.913E+10	1.651E+10	1.655E+10	7.473E+09	7.496E+09	4.279E+09	4.294E+09
4	4.163E+10	4.169E+10	2.052E+10	2.055E+10	9.205E+09	9.223E+09	5.226E+09	5.241E+09	2.365E+09	2.375E+09	1.354E+09	1.360E+09
6	8.232E+09	8.246E+09	4.057E+09	4.064E+09	1.820E+09	1.826E+09	1.033E+09	1.038E+09	4.677E+08	4.701E+08	2.678E+08	2.693E+08
8	2.608E+09	2.613E+09	1.285E+09	1.289E+09	5.767E+08	5.793E+08	2.274E+08	2.291E+08	1.482E+08	1.491E+08	8.485E+07	8.543E+07
10	1.070E+09	1.072E+09	5.275E+08	5.294E+08	2.367E+08	2.379E+08	1.344E+08	1.351E+08	6.081E+07	6.119E+07	3.482E+07	3.510E+07
15	2.128E+08	2.136E+08	1.049E+08	1.055E+08	4.704E+07	4.711E+07	2.671E+07	2.685E+07	1.209E+07	1.214E+07	6.927E+06	7.008E+06
20	6.792E+07	6.838E+07	3.347E+07	3.368E+07	1.502E+07	1.508E+07	8.527E+06	8.565E+06	3.859E+06	3.904E+06	2.210E+06	2.255E+06
30	1.376E+07	1.382E+07	6.783E+06	6.786E+06	3.043E+06	3.052E+06	1.728E+06	1.746E+06	7.820E+05	7.853E+05	4.477E+05	4.690E+05
45	2.880E+06	2.865E+06	1.419E+06	1.421E+06	6.367E+05	6.50E+05	3.615E+05	3.762E+05	1.636E+05	1.757E+05	9.368E+04	1.030E+05
60	9.881E+05	9.889E+05	4.870E+05	4.877E+05	2.185E+05	2.305E+05	1.240E+05	1.342E+05	5.614E+04	6.290E+04	3.215E+04	3.686E+04
75	4.497E+05	4.605E+05	2.216E+05	2.339E+05	9.943E+04	1.088E+05	5.645E+04	6.335E+04	2.555E+04	2.968E+04	1.463E+04	1.727E+04
90	2.470E+05	2.627E+05	1.217E+05	1.337E+05	5.462E+04	6.206E+04	3.101E+04	3.598E+04	1.404E+04	1.667E+04	8.036E+03	9.650E+03
120	1.098E+05	1.301E+05	5.411E+04	6.537E+04	2.428E+04	2.978E+04	1.378E+04	1.699E+04	6.238E+03	7.472E+03	3.572E+03	4.349E+03
150	7.094E+04	9.308E+04	3.496E+04	4.601E+04	1.569E+04	2.044E+04	8.906E+03	1.154E+04	4.031E+03	5.086E+03	2.308E+03	2.926E+03
179	6.177E+04	8.440E+04	3.044E+04	4.145E+04	1.366E+04	1.846E+04	7.754E+03	1.026E+04	3.510E+03	4.475E+03	2.009E+03	2.466E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	2.25E+11	2.260E+11	1.190E+11	1.192E+11	6.186E+10	6.183E+10	2.911E+10	2.921E+10	1.743E+10	1.750E+10	8.611E+09	8.653E+09
2	1.410E+10	1.414E+10	7.436E+09	7.446E+09	3.817E+09	3.815E+09	1.620E+09	1.631E+09	1.089E+09	1.097E+09	5.382E+08	5.431E+08
3	2.786E+09	2.798E+09	1.469E+09	1.477E+09	7.542E+08	7.543E+08	3.595E+08	3.629E+08	2.152E+08	2.176E+08	1.063E+08	1.078E+08
4	8.818E+08	8.864E+08	4.650E+08	4.681E+08	2.387E+08	2.408E+08	1.138E+08	1.152E+08	6.813E+07	6.914E+07	3.364E+07	3.429E+07
6	1.744E+08	1.755E+08	9.195E+07	9.281E+07	4.720E+07	4.783E+07	2.250E+07	2.293E+07	1.347E+07	1.374E+07	6.556E+06	6.649E+06
8	5.325E+07	5.372E+07	2.914E+07	2.950E+07	1.496E+07	1.533E+07	7.136E+06	7.319E+06	4.268E+06	4.407E+06	2.109E+06	2.194E+06
10	2.267E+07	2.291E+07	1.196E+07	1.215E+07	6.137E+06	6.288E+06	2.926E+06	3.028E+06	1.752E+06	1.826E+06	8.654E+05	9.106E+05
15	4.507E+06	4.589E+06	2.377E+06	2.446E+06	1.220E+06	1.272E+06	5.816E+05	6.159E+05	3.482E+05	3.724E+05	1.728E+05	1.865E+05
20	1.439E+06	1.482E+06	7.587E+05	7.937E+05	3.895E+05	4.166E+05	1.857E+05	2.015E+05	1.112E+05	1.222E+05	5.492E+04	6.131E+04
30	2.915E+05	3.098E+05	1.537E+05	1.671E+05	7.892E+04	8.776E+04	3.762E+04	4.285E+04	2.252E+04	2.604E+04	1.113E+04	1.309E+04
45	6.108E+04	6.827E+04	3.217E+04	3.693E+04	1.651E+04	1.922E+04	7.872E+03	9.471E+03	4.712E+03	5.744E+03	2.328E+03	2.880E+03
60	2.093E+04	2.440E+04	1.104E+04	1.316E+04	5.666E+03	6.881E+03	2.701E+03	3.330E+03	1.617E+03	2.088E+03	7.990E+02	9.973E+02
75	9.525E+03	1.138E+04	5.623E+03	6.886E+03	2.379E+03	3.150E+03	1.229E+03	1.504E+03	7.359E+02	8.973E+02	3.634E+02	4.388E+02
90	5.233E+03	6.317E+03	2.766E+03	3.338E+03	1.417E+03	1.762E+03	6.753E+02	7.971E+02	4.043E+02	4.843E+02	1.977E+02	2.239E+02
120	2.326E+03	2.795E+03	1.226E+03	1.430E+03	6.296E+02	7.005E+02	3.001E+02	3.104E+02	1.797E+02	1.742E+02	8.877E+01	7.742E+01
150	1.502E+03	1.784E+03	7.925E+02	8.846E+02	4.068E+02	4.166E+02	1.939E+02	1.730E+02	1.141E+02	9.178E+01	5.736E+01	3.745E+01
179	1.308E+03	1.545E+03	6.900E+02	7.561E+02	3.542E+02	3.477E+02	1.688E+02	1.410E+02	1.011E+02	7.255E+01	4.944E+01	2.737E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-00MEV		1.5E-00MEV		2.0E-00MEV	
1	5.282E+09	5.311E+09	3.634E+09	3.656E+09	2.078E+09	2.091E+09	1.150E+09	1.159E+09	5.619E+08	5.660E+08	3.554E+08	3.579E+08
2	3.302E+08	3.336E+08	2.272E+08	2.297E+08	1.299E+08	1.315E+08	7.188E+07	7.280E+07	3.637E+07	3.686E+07	2.222E+07	2.252E+07
3	6.524E+07	6.625E+07	4.489E+07	4.564E+07	2.567E+07	2.614E+07	1.420E+07	1.448E+07	7.187E+06	7.333E+06	4.390E+06	4.481E+06
4	2.105E+07	2.108E+07	1.421E+07	1.453E+07	8.125E+06	8.355E+06	4.495E+06	4.613E+06	2.275E+06	2.337E+06	1.389E+06	1.420E+06
6	4.083E+06	4.217E+06	2.809E+06	2.908E+06	1.667E+06	1.688E+06	8.859E+05	9.249E+05	4.498E+05	4.699E+05	2.747E+05	2.866E+05
8	1.294E+06	1.352E+06	8.901E+05	9.333E+05	5.090E+05	5.358E+05	2.816E+05	2.973E+05	1.425E+05	1.504E+05	8.705E+04	9.219E+04
10	5.309E+05	5.618E+05	3.653E+05	3.880E+05	2.089E+05	2.229E+05	1.156E+05	1.238E+05	5.848E+04	6.280E+04	3.372E+04	3.840E+04
15	1.055E+05	1.153E+05	7.261E+04	7.973E+04	4.152E+04	4.587E+04	2.297E+04	2.550E+04	1.163E+04	1.295E+04	7.101E+03	7.921E+03
20	3.369E+04	3.796E+04	2.318E+04	2.627E+04	1.326E+04	1.513E+04	7.334E+03	8.416E+03	3.711E+03	4.276E+03	2.267E+03	2.616E+03
30	6.827E+03	8.111E+03	4.697E+03	5.617E+03	2.686E+03	3.236E+03	1.486E+03	1.800E+03	7.520E+02	9.148E+02	4.593E+02	5.597E+02
45	1.428E+03	1.780E+03	9.827E+02	1.230E+03	5.620E+02	7.072E+02	3.109E+02	3.926E+02	1.573E+02	1.992E+02	9.611E+01	1.218E+02
60	4.901E+02	6.125E+02	3.372E+02	4.214E+02	1.978E+02	2.408E+02	1.07E+02	1.330E+02	5.399E+01	6.722E+01	3.298E+01	4.102E+01
75	2.230E+02	2.667E+02	1.535E+02	1.821E+02	8.776E+01	1.030E+02	4.856E+01	5.644E+01	2.437E+01	2.833E+01	1.501E+01	1.724E+01
90	1.225E+02	1.339E+02	8.431E+01	9.037E+01	4.871E+01	5.031E+01	2.667E+01	2.720E+01	1.350E+01	1.351E+01	8.245E+00	8.174E+00
120	5.446E+01	4.380E+01	3.747E+01	2.831E+01	2.143E+01	1.481E+01	1.186E+01	7.567E+00	5.999E+00	3.580E+00	3.484E+00	2.116E+00
150	3.519E+01	1.876E+01	2.421E+01	1.128E+01	1.385E+01	5.137E+00	7.661E+00	2.244E+00	3.877E+00	9.027E+00	2.368E+00	4.348E+01
179	3.064E+01	1.325E+01	2.108E+01	7.386E+00	1.265E+01	2.946E+00	6.670E+00	1.641E+00	3.375E+00	2.972E+01	2.061E+00	1.165E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	1.744E+08	1.756E+08	1.038E+08	1.046E+08	6.898E+07	6.749E+07	3.684E+07	3.711E+07	1.875E+07	1.886E+07	8.577E+06	8.640E+06
2	1.090E+07	1.105E+07	6.491E+06	6.582E+06	4.312E+06	4.373E+06	2.303E+06	2.335E+06	1.171E+06	1.187E+06	5.362E+05	5.438E+05
3	2.153E+06	2.199E+06	1.283E+06	1.310E+06	8.520E+05	8.701E+05	4.550E+05	4.647E+05	2.313E+05	2.362E+05	1.059E+05	1.082E+05
4	6.816E+05	7.010E+05	4.059E+05	4.176E+05	2.647E+05	2.744E+05	1.440E+05	1.482E+05	7.321E+04	7.532E+04	3.393E+04	3.450E+04
6	1.348E+05	1.407E+05	8.027E+04	8.381E+04	5.332E+04	5.549E+04	2.848E+04	2.974E+04	1.448E+04	1.512E+04	6.838E+03	6.926E+03
8	4.270E+04	4.526E+04	2.543E+04	2.697E+04	1.690E+04	1.792E+04	9.023E+03	9.570E+03	4.587E+03	4.865E+03	2.018E+03	2.229E+03
10	1.752E+04	1.886E+04	1.044E+04	1.124E+04	6.933E+03	7.466E+03	3.703E+03	3.988E+03	1.862E+03	2.027E+03	8.621E+02	9.286E+02
15	3.483E+03	3.891E+03	2.075E+03	2.319E+03	1.378E+03	1.541E+03	7.360E+02	8.230E+02	3.741E+02	4.284E+02	1.714E+02	1.917E+02
20	1.112E+03	1.285E+03	6.623E+02	7.660E+02	4.400E+02	5.090E+02	2.350E+02	2.719E+02	1.194E+02	1.382E+02	5.471E+01	6.332E+01
30	2.253E+02	2.750E+02	1.342E+02	1.639E+02	8.915E+01	1.089E+02	4.761E+01	5.818E+01	2.420E+01	2.959E+01	1.109E+01	1.355E+01
45	4.715E+01	5.978E+01	2.808E+01	3.562E+01	1.865E+01	2.366E+01	9.962E+00	1.264E+01	5.064E+00	6.426E+00	2.319E+00	2.943E+00
60	1.618E+01	2.011E+01	9.635E+00	1.197E+01	6.801E+00	7.952E+00	3.418E+00	4.246E+00	1.736E+00	2.158E+00	7.959E+00	9.885E+01
75	7.362E+00	8.427E+00	4.385E+00	5.012E+00	2.913E+00	3.357E+00	1.556E+00	1.776E+00	7.908E+01	9.022E+01	3.622E+01	4.131E+01
90	4.044E+00	3.979E+00	2.409E+00	2.362E+00	1.400E+00	1.566E+00	8.546E+01	8.352E+01	4.344E+01	4.242E+01	1.990E+01	1.942E+01
120	1.798E+00	1.008E+00	1.071E+00	5.927E+01	7.112E+01	3.912E+01	3.798E+01	2.077E+01	1.931E+01	1.052E+01	8.843E+02	4.809E+02
150	1.162E+00	2.093E+01	6.918E+01	1.177E+01	4.592E+01	7.581E+02	2.454E+01	3.931E+02	1.248E+01	1.944E+02	5.714E+02	8.906E+03
179	1.011E+00	2.930E+02	6.023E+01	1.061E+02	4.001E+01	4.746E+03	2.137E+01	1.382E+03	1.086E+01	3.682E+04	4.975E+02	8.227E+05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	4.901E+06	4.937E+06	2.213E+06	2.229E+06	1.255E+06	1.244E+06	8.073E+05	8.132E+05	4.142E+05	4.173E+05	2.038E+05	2.053E+05
2	3.063E+05	3.107E+05	1.383E+05	1.403E+05	7.848E+04	7.957E+04	3.046E+04	3.118E+04	2.589E+04	2.626E+04	1.274E+04	1.292E+04
3	6.053E+04	6.182E+04	2.733E+04	2.792E+04	1.550E+04	1.543E+04	9.970E+03	1.018E+04	5.116E+03	5.224E+03	2.518E+03	2.572E+03
4	1.916E+04	1.971E+04	8.652E+03	8.903E+03	4.907E+03	5.049E+03	3.156E+03	3.247E+03	1.619E+03	1.666E+03	7.969E+02	8.199E+02
6	3.788E+03	3.957E+03	1.711E+03	1.787E+03	9.702E+02	1.013E+03	6.240E+02	6.518E+02	3.202E+02	3.345E+02	1.574E+02	1.644E+02
8	1.200E+03	1.273E+03	5.421E+02	5.750E+02	3.074E+02	3.241E+02	1.977E+02	2.097E+02	1.015E+02	1.076E+02	4.992E+01	5.246E+01
10	4.925E+02	5.306E+02	2.224E+02	2.396E+02	1.261E+02	1.359E+02	8.113E+01	8.740E+01	4.163E+01	4.483E+01	2.049E+01	2.207E+01
15	9.791E+01	1.095E+02	4.422E+01	4.946E+01	2.508E+01	2.805E+01	1.613E+01	1.804E+01	8.276E+00	9.256E+00	4.073E+00	4.555E+00
20	3.126E+01	3.618E+01	1.412E+01	1.634E+01	8.005E+00	9.247E+00	5.149E+00	5.960E+00	2.642E+00	3.058E+00	1.300E+00	1.505E+00
30	6.333E+00	7.741E+00	2.860E+00	3.496E+00	1.622E+00	1.983E+00	1.043E+00	1.275E+00	5.353E+01	6.543E+01	2.634E+01	3.220E+01
45	1.325E+00	1.682E+00	5.985E+01	7.595E+01	3.394E+01	4.307E+01	2.183E+01	2.770E+01	1.120E+01	1.421E+01	5.512E+02	6.995E+02
60	4.547E+01	5.648E+01	2.054E+01	2.551E+01	1.165E+01	1.446E+01	7.490E+02	9.303E+02	3.843E+02	4.774E+02	1.891E+02	2.349E+02
75	2.069E+01	2.360E+01	9.345E+02	1.066E+01	5.300E+02	6.044E+02	3.409E+02	3.887E+02	1.749E+02	1.995E+02	8.607E+03	9.816E+03
90	1.137E+01	1.109E+01	5.134E+02	5.009E+02	2.911E+02	2.804E+02	1.873E+02	1.827E+02	9.608E+03	9.374E+03	4.728E+03	4.613E+03
120	5.052E+02	2.746E+02	2.282E+02	1.239E+02	1.294E+02	7.097E+02	8.323E+03	4.519E+03	4.276E+03	2.319E+03	2.102E+03	1.141E+03
150	3.265E+02	5.070E+03	1.474E+02	2.284E+03	8.361E+03	1.264E+03	5.378E+03	8.318E+04	2.759E+03	4.266E+04	1.358E+03	2.099E+04
179	2.842E+02	2.906E+05	1.284E+02	7.191E+06	7.280E+03	2.878E+06	4.082E+03	1.770E+06	2.402E+03	6.019E+07	1.182E+03	2.533E+07

IN (49)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	5.375E+14	5.378E+14	2.391E+14	2.393E+14	1.346E+14	1.347E+14	5.996E+13	5.999E+13	3.379E+13	3.381E+13	2.167E+13	2.168E+13
2	3.360E+13	3.362E+13	1.495E+13	1.496E+13	8.416E+12	8.422E+12	3.748E+12	3.751E+12	2.112E+12	2.114E+12	1.354E+12	1.356E+12
3	6.639E+12	6.643E+12	2.953E+12	2.955E+12	1.663E+12	1.664E+12	7.405E+11	7.411E+11	4.173E+11	4.177E+11	2.676E+11	2.679E+11
4	2.101E+12	2.103E+12	9.348E+11	9.355E+11	5.263E+11	5.268E+11	2.344E+11	2.346E+11	1.321E+11	1.322E+11	8.471E+10	8.479E+10
6	4.155E+11	4.158E+11	1.848E+11	1.850E+11	1.041E+11	1.042E+11	4.635E+10	4.640E+10	2.612E+10	2.615E+10	1.675E+10	1.677E+10
8	1.316E+11	1.317E+11	5.857E+10	5.862E+10	3.298E+10	3.301E+10	1.468E+10	1.470E+10	8.276E+09	8.288E+09	5.307E+09	5.317E+09
10	5.402E+10	5.407E+10	2.403E+10	2.405E+10	1.353E+10	1.355E+10	6.026E+09	6.033E+09	3.396E+09	3.403E+09	2.178E+09	2.182E+09
15	1.074E+10	1.075E+10	4.778E+09	4.784E+09	2.690E+09	2.693E+09	1.198E+09	1.201E+09	6.751E+08	6.762E+08	4.329E+08	4.336E+08
20	3.428E+09	3.433E+09	1.525E+09	1.526E+09	8.587E+08	8.607E+08	3.824E+08	3.830E+08	2.155E+08	2.158E+08	1.382E+08	1.387E+08
30	6.947E+08	6.953E+08	3.090E+08	3.098E+08	1.740E+08	1.741E+08	7.749E+07	7.771E+07	4.367E+07	4.397E+07	2.800E+07	2.822E+07
45	1.453E+08	1.454E+08	6.466E+07	6.470E+07	3.641E+07	3.663E+07	1.621E+07	1.634E+07	9.137E+06	9.164E+06	5.859E+06	5.849E+06
60	4.987E+07	5.003E+07	2.219E+07	2.241E+07	1.249E+07	1.257E+07	5.563E+06	5.529E+06	3.135E+06	3.049E+06	2.011E+06	1.988E+06
75	2.270E+07	2.295E+07	1.010E+07	1.005E+07	5.685E+06	5.591E+06	2.532E+06	2.477E+06	1.427E+06	1.406E+06	9.150E+05	9.121E+05
90	1.247E+07	1.219E+07	5.547E+06	5.351E+06	3.123E+06	3.021E+06	1.391E+06	1.372E+06	7.938E+05	7.903E+05	5.026E+05	5.169E+05
120	5.542E+06	5.534E+06	2.465E+06	2.561E+06	1.388E+06	1.443E+06	6.181E+05	6.866E+05	3.484E+05	3.970E+05	2.234E+05	2.503E+05
150	3.581E+06	4.346E+06	1.593E+06	1.981E+06	8.970E+05	1.133E+06	3.994E+05	5.148E+05	2.251E+05	2.936E+05	1.443E+05	1.897E+05
179	3.118E+06	4.112E+06	1.387E+06	1.857E+06	7.809E+05	1.055E+06	3.478E+05	4.755E+05	1.960E+05	2.697E+05	1.257E+05	1.735E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.110E+13	1.111E+13	5.469E+12	5.474E+12	2.454E+12	2.456E+12	1.393E+12	1.395E+12	6.306E+11	6.314E+11	3.610E+11	3.616E+11
2	6.937E+11	6.943E+11	3.419E+11	3.422E+11	1.534E+11	1.536E+11	8.708E+10	8.722E+10	3.942E+10	3.950E+10	2.257E+10	2.263E+10
3	1.374E+11	1.372E+11	6.755E+10	6.764E+10	3.031E+10	3.035E+10	1.721E+10	1.724E+10	7.780E+09	7.812E+09	4.459E+09	4.475E+09
4	4.338E+10	4.344E+10	2.138E+10	2.141E+10	9.592E+09	9.611E+09	5.046E+09	5.061E+09	2.465E+09	2.475E+09	1.411E+09	1.418E+09
6	8.578E+09	8.593E+09	4.228E+09	4.235E+09	1.897E+09	1.903E+09	1.077E+09	1.081E+09	4.874E+08	4.899E+08	2.791E+08	2.807E+08
8	2.718E+09	2.723E+09	1.340E+09	1.343E+09	6.010E+08	6.037E+08	3.412E+08	3.430E+08	1.544E+08	1.554E+08	8.842E+07	8.903E+07
10	1.115E+09	1.117E+09	5.497E+08	5.516E+08	2.466E+08	2.480E+08	1.400E+08	1.409E+08	6.337E+07	6.377E+07	3.628E+07	3.657E+07
15	2.217E+08	2.226E+08	1.093E+08	1.100E+08	4.902E+07	4.933E+07	2.783E+07	2.798E+07	1.260E+07	1.269E+07	7.213E+06	7.299E+06
20	7.078E+07	7.126E+07	3.488E+07	3.512E+07	1.565E+07	1.572E+07	8.886E+06	8.924E+06	4.022E+06	4.065E+06	2.303E+06	2.348E+06
30	1.434E+07	1.442E+07	7.068E+06	7.074E+06	3.171E+06	3.178E+06	1.800E+06	1.817E+06	8.149E+05	8.387E+05	4.666E+05	4.881E+05
45	3.001E+06	2.985E+06	1.479E+06	1.479E+06	6.635E+05	6.749E+05	3.767E+05	3.913E+05	1.705E+05	1.829E+05	9.762E+04	1.073E+05
60	1.030E+06	1.028E+06	5.075E+05	5.174E+05	2.277E+05	2.308E+05	1.293E+05	1.397E+05	5.851E+04	6.559E+04	3.350E+04	3.849E+04
75	4.686E+05	4.785E+05	2.309E+05	2.433E+05	1.036E+05	1.134E+05	5.883E+04	6.608E+04	2.663E+04	3.093E+04	1.524E+04	1.807E+04
90	2.574E+05	2.733E+05	1.269E+05	1.393E+05	5.592E+04	6.479E+04	3.232E+04	3.761E+04	1.463E+04	1.746E+04	8.375E+03	1.012E+04
120	1.144E+05	1.361E+05	5.638E+04	6.850E+04	2.337E+04	3.126E+04	1.436E+04	1.786E+04	6.501E+03	8.317E+03	3.722E+03	4.581E+03
150	7.393E+04	9.800E+04	3.643E+04	4.849E+04	1.635E+04	2.147E+04	9.281E+03	1.219E+04	4.201E+03	5.373E+03	2.405E+03	2.987E+03
179	6.437E+04	8.908E+04	3.172E+04	4.377E+04	1.423E+04	1.943E+04	8.080E+03	1.084E+04	3.657E+03	4.734E+03	2.094E+03	2.610E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	2.351E+11	2.355E+11	1.240E+11	1.242E+11	6.364E+10	6.381E+10	3.034E+10	3.044E+10	1.816E+10	1.823E+10	8.973E+09	9.016E+09
2	1.469E+10	1.474E+10	7.749E+09	7.779E+09	3.978E+09	3.997E+09	1.896E+09	1.908E+09	1.135E+09	1.144E+09	5.609E+08	5.660E+08
3	2.903E+09	2.916E+09	1.531E+09	1.539E+09	7.859E+08	7.912E+08	3.747E+08	3.781E+08	2.243E+08	2.268E+08	1.108E+08	1.123E+08
4	9.189E+08	9.237E+08	4.846E+08	4.878E+08	2.488E+08	2.509E+08	1.186E+08	1.200E+08	7.100E+07	7.205E+07	3.508E+07	3.573E+07
6	1.817E+08	1.829E+08	9.583E+07	9.671E+07	4.919E+07	4.983E+07	2.345E+07	2.389E+07	1.404E+07	1.436E+07	6.936E+06	7.137E+06
8	5.757E+07	5.806E+07	3.036E+07	3.074E+07	1.559E+07	1.587E+07	7.430E+06	7.626E+06	4.448E+06	4.592E+06	2.198E+06	2.286E+06
10	2.363E+07	2.387E+07	1.246E+07	1.266E+07	6.366E+06	6.505E+06	3.049E+06	3.155E+06	1.825E+06	1.903E+06	9.018E+05	9.491E+05
15	4.697E+06	4.779E+06	2.477E+06	2.547E+06	1.271E+06	1.355E+06	6.061E+05	6.418E+05	3.628E+05	3.853E+05	1.793E+05	1.945E+05
20	1.499E+06	1.543E+06	7.907E+05	8.264E+05	4.059E+05	4.319E+05	1.935E+05	2.101E+05	1.158E+05	1.274E+05	5.723E+04	6.398E+04
30	3.038E+05	3.225E+05	1.602E+05	1.741E+05	8.224E+04	9.152E+04	3.921E+04	4.473E+04	2.347E+04	2.720E+04	1.160E+04	1.369E+04
45	6.356E+04	7.119E+04	3.352E+04	3.856E+04	1.721E+04	2.030E+04	8.203E+03	9.917E+03	4.911E+03	6.021E+03	2.426E+03	3.022E+03
60	2.181E+04	2.551E+04	1.150E+04	1.377E+04	5.905E+03	7.213E+03	2.815E+03	3.497E+03	1.685E+03	2.110E+03	8.326E+02	1.049E+03
75	9.926E+03	1.262E+04	5.235E+03	6.386E+03	2.687E+03	3.311E+03	1.281E+03	1.635E+03	7.669E+02	9.455E+02	3.789E+02	4.631E+02
90	5.453E+03	6.632E+03	2.876E+03	3.509E+03	1.476E+03	1.792E+03	7.037E+02	8.406E+02	4.213E+02	4.943E+02	2.081E+02	2.367E+02
120	2.424E+03	2.946E+03	1.278E+03	1.509E+03	6.561E+02	7.349E+02	3.128E+02	3.281E+02	1.972E+02	1.843E+02	9.251E+01	8.260E+01
150	1.566E+03	1.886E+03	8.259E+02	9.357E+02	4.239E+02	4.397E+02	2.021E+02	1.831E+02	1.110E+02	9.709E+01	5.978E+01	8.893E+01
179	1.363E+03	1.636E+03	7.190E+02	8.006E+02	3.691E+02	3.609E+02	1.760E+02	1.492E+02	1.053E+02	7.680E+01	5.204E+01	2.847E+01

IN (49)

(BARNES/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	5.505E+09	5.535E+09	3.787E+09	3.810E+09	2.166E+09	2.180E+09	1.198E+09	1.206E+09	6.064E+08	6.107E+08	3.704E+08	3.730E+08
2	3.441E+08	3.476E+08	2.367E+08	2.394E+08	1.354E+08	1.370E+08	7.491E+07	7.588E+07	3.791E+07	3.842E+07	2.315E+07	2.347E+07
3	6.799E+07	6.904E+07	4.678E+07	4.756E+07	2.675E+07	2.74E+07	1.480E+07	1.509E+07	7.489E+06	7.642E+06	4.574E+06	4.670E+06
4	2.152E+07	2.197E+07	1.481E+07	1.514E+07	8.467E+06	8.677E+06	4.685E+06	4.808E+06	2.371E+06	2.436E+06	1.448E+06	1.489E+06
6	4.255E+06	4.394E+06	2.928E+06	3.031E+06	1.674E+06	1.749E+06	9.263E+05	9.642E+05	4.687E+05	4.887E+05	2.863E+05	2.988E+05
8	1.348E+06	1.409E+06	9.276E+05	9.728E+05	5.305E+05	5.585E+05	2.935E+05	3.100E+05	1.485E+05	1.572E+05	9.072E+04	9.612E+04
10	5.532E+05	5.856E+05	3.806E+05	4.045E+05	2.177E+05	2.34E+05	1.204E+05	1.291E+05	6.095E+04	6.549E+04	3.723E+04	4.005E+04
15	1.100E+05	1.202E+05	7.567E+04	8.317E+04	4.327E+04	4.787E+04	2.394E+04	2.661E+04	1.212E+04	1.352E+04	7.400E+03	8.260E+03
20	3.511E+04	3.962E+04	2.416E+04	2.743E+04	1.381E+04	1.580E+04	7.643E+03	8.793E+03	3.868E+03	4.468E+03	2.362E+03	2.734E+03
30	7.114E+03	8.486E+03	4.895E+03	5.878E+03	2.799E+03	3.388E+03	1.549E+03	1.886E+03	7.837E+02	9.582E+02	4.787E+02	5.86E+02
45	1.488E+03	1.869E+03	1.024E+03	1.292E+03	5.857E+02	7.431E+02	3.240E+02	4.127E+02	1.540E+02	2.094E+02	1.002E+02	1.280E+02
60	5.108E+02	6.451E+02	3.514E+02	4.441E+02	2.010E+02	2.539E+02	1.112E+02	1.403E+02	5.627E+01	7.092E+01	3.437E+01	4.329E+01
75	2.324E+02	2.817E+02	1.599E+02	1.924E+02	9.146E+01	1.049E+02	5.060E+01	5.970E+01	2.561E+01	2.998E+01	1.504E+01	1.825E+01
90	1.277E+02	1.417E+02	8.788E+01	9.567E+01	5.024E+01	5.331E+01	2.780E+01	2.884E+01	1.407E+01	1.433E+01	8.592E+00	8.675E+00
120	5.675E+01	6.44E+01	3.905E+01	3.003E+01	2.233E+01	1.573E+01	1.235E+01	8.044E+00	6.252E+00	3.810E+00	2.253E+00	2.53E+00
150	3.667E+01	2.009E+01	2.523E+01	1.196E+01	1.443E+01	5.452E+00	7.983E+00	2.388E+00	4.040E+00	9.604E+00	2.467E+00	5.163E+00
179	3.193E+01	1.403E+01	2.197E+01	7.817E+00	1.256E+01	3.106E+00	6.950E+00	1.102E+00	3.517E+00	3.145E+01	2.148E+00	1.233E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	1.817E+08	1.830E+08	1.082E+08	1.090E+08	7.189E+07	7.241E+07	3.839E+07	3.867E+07	1.952E+07	1.966E+07	8.939E+06	9.005E+06
2	1.136E+07	1.152E+07	6.764E+06	6.860E+06	4.494E+06	4.557E+06	2.400E+06	2.434E+06	1.220E+06	1.237E+06	5.587E+05	5.667E+05
3	2.244E+06	2.292E+06	1.336E+06	1.365E+06	8.878E+05	9.049E+05	4.742E+05	4.844E+05	2.410E+05	2.462E+05	1.104E+05	1.128E+05
4	7.103E+05	7.307E+05	4.230E+05	4.352E+05	2.810E+05	2.892E+05	1.501E+05	1.544E+05	7.029E+04	7.851E+04	3.494E+04	3.596E+04
6	1.404E+05	1.467E+05	8.365E+04	8.737E+04	5.557E+04	5.805E+04	2.968E+04	3.101E+04	1.508E+04	1.576E+04	6.909E+03	7.220E+03
8	4.450E+04	4.719E+04	2.659E+04	2.812E+04	1.761E+04	1.868E+04	9.403E+03	9.79E+03	4.780E+03	5.073E+03	2.189E+03	2.324E+03
10	1.826E+04	1.967E+04	1.088E+04	1.172E+04	7.225E+03	7.787E+03	3.859E+03	4.159E+03	1.961E+03	2.115E+03	9.88E+02	9.686E+02
15	3.630E+03	4.062E+03	2.162E+03	2.420E+03	1.436E+03	1.608E+03	7.670E+02	8.592E+02	3.899E+02	4.368E+02	1.784E+02	2.001E+02
20	1.159E+03	1.343E+03	6.902E+02	8.005E+02	4.585E+02	5.350E+02	2.449E+02	2.842E+02	1.245E+02	1.445E+02	5.701E+01	6.518E+01
30	2.348E+02	2.881E+02	1.398E+02	1.717E+02	9.290E+01	1.141E+02	4.962E+01	6.096E+01	2.522E+01	3.099E+01	1.155E+01	1.420E+01
45	4.913E+01	6.287E+01	2.926E+01	3.748E+01	1.944E+01	2.489E+01	1.038E+01	1.330E+01	5.277E+00	6.759E+00	2.417E+00	3.096E+00
60	1.686E+01	2.122E+01	1.004E+01	1.264E+01	6.670E+00	8.364E+00	3.502E+00	4.482E+00	1.811E+00	2.278E+00	8.294E+01	1.043E+00
75	7.672E+00	8.921E+00	4.569E+00	5.306E+00	3.035E+00	3.522E+00	1.621E+00	1.880E+00	8.240E+01	9.552E+00	3.774E+01	4.374E+01
90	4.215E+00	4.223E+00	2.510E+00	2.507E+00	1.668E+00	1.663E+00	8.906E+01	8.866E+01	4.527E+01	4.503E+01	2.073E+01	2.061E+01
120	1.873E+00	1.073E+00	1.116E+00	6.313E+01	7.411E+01	4.148E+01	3.958E+01	2.213E+01	2.012E+01	1.121E+01	9.215E+02	5.174E+02
150	1.210E+00	2.232E+01	7.209E+01	1.255E+01	4.789E+01	8.089E+02	3.958E+01	4.196E+02	1.300E+01	2.097E+02	5.955E+02	5.909E+03
179	1.054E+00	3.100E+02	6.276E+01	1.123E+02	4.169E+01	5.022E+03	2.227E+01	1.462E+03	1.132E+01	3.898E+04	5.184E+02	8.713E+05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	5.107E+06	5.145E+06	2.306E+06	2.323E+06	1.308E+06	1.318E+06	8.412E+05	8.475E+05	4.317E+05	4.348E+05	2.124E+05	2.140E+05
2	3.192E+05	3.238E+05	1.442E+05	1.462E+05	8.176E+04	8.293E+04	5.259E+04	5.334E+04	2.698E+04	2.737E+04	1.328E+04	1.347E+04
3	6.308E+04	6.444E+04	2.849E+04	2.910E+04	1.615E+04	1.640E+04	1.039E+04	1.061E+04	5.331E+03	5.446E+03	2.624E+03	2.680E+03
4	1.996E+04	2.055E+04	9.016E+03	9.279E+03	5.113E+03	5.262E+03	3.289E+03	3.385E+03	1.687E+03	1.737E+03	8.304E+02	8.546E+02
6	3.948E+03	4.125E+03	1.783E+03	1.863E+03	1.011E+03	1.067E+03	6.503E+02	6.795E+02	3.337E+02	3.487E+02	1.642E+02	1.716E+02
8	1.251E+03	1.328E+03	5.649E+02	5.996E+02	3.203E+02	3.400E+02	2.060E+02	2.187E+02	1.057E+02	1.122E+02	5.203E+01	5.523E+01
10	5.133E+02	5.534E+02	2.318E+02	2.499E+02	1.315E+02	1.417E+02	8.455E+01	9.116E+01	4.338E+01	4.678E+01	2.135E+01	2.302E+01
15	1.020E+02	1.143E+02	4.608E+01	5.163E+01	2.613E+01	2.988E+01	1.681E+01	1.883E+01	8.624E+00	9.663E+00	4.244E+00	4.755E+00
20	3.257E+01	3.781E+01	1.471E+01	1.708E+01	8.342E+00	9.685E+00	5.365E+00	6.229E+00	2.753E+00	3.196E+00	1.355E+00	1.573E+00
30	6.600E+00	8.111E+00	2.981E+00	3.663E+00	1.690E+00	2.077E+00	1.087E+00	1.336E+00	5.578E+01	6.856E+01	2.745E+01	3.374E+01
45	1.381E+00	1.769E+00	6.237E+00	7.989E+01	6.237E+00	4.507E+01	2.275E+01	2.914E+01	1.167E+01	1.495E+01	5.744E+02	7.586E+02
60	4.739E+01	5.962E+01	2.140E+01	2.692E+01	1.214E+01	1.577E+01	7.806E+02	9.820E+02	4.005E+02	5.039E+02	1.971E+02	2.489E+02
75	2.156E+01	2.499E+01	9.739E+02	1.129E+01	5.523E+02	6.400E+02	3.352E+02	4.116E+02	1.823E+02	2.112E+02	8.970E+03	1.039E+02
90	1.185E+01	1.178E+01	5.350E+02	5.317E+02	3.034E+02	3.015E+02	1.951E+02	1.939E+02	1.001E+02	9.951E+02	4.927E+03	4.887E+03
120	5.265E+02	2.925E+02	2.378E+02	1.320E+02	1.348E+02	7.467E+03	8.673E+03	4.815E+03	4.450E+03	2.470E+03	2.190E+03	1.216E+03
150	3.402E+02	5.414E+03	1.536E+02	2.438E+03	8.713E+03	1.382E+03	5.604E+03	8.882E+04	2.870E+03	4.556E+03	1.415E+03	2.241E+04
179	2.962E+02	3.080E+05	1.338E+02	7.632E+06	7.586E+03	3.068E+06	4.879E+03	1.585E+06	2.504E+03	6.413E+07	1.232E+03	2.703E+07

SN (50)

(BARNS/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	5.597E+14	5.600E+14	2.490E+14	2.491E+14	1.402E+14	1.403E+14	6.243E+13	6.247E+13	3.518E+13	3.521E+13	2.256E+13	2.258E+13
2	3.499E+13	3.501E+13	1.556E+13	1.557E+13	8.763E+12	8.769E+12	3.902E+12	3.905E+12	2.199E+12	2.201E+12	1.410E+12	1.411E+12
3	6.912E+12	6.917E+12	3.075E+12	3.077E+12	1.731E+12	1.733E+12	7.710E+11	7.716E+11	4.346E+11	4.349E+11	2.787E+11	2.789E+11
4	2.188E+12	2.189E+12	9.734E+11	9.741E+11	5.480E+11	5.485E+11	2.446E+11	2.443E+11	1.375E+11	1.377E+11	8.820E+10	8.829E+10
6	4.326E+11	4.329E+11	1.925E+11	1.926E+11	1.084E+11	1.085E+11	4.816E+10	4.831E+10	2.720E+10	2.723E+10	1.744E+10	1.746E+10
8	1.371E+11	1.372E+11	6.098E+10	6.104E+10	3.434E+10	3.437E+10	1.529E+10	1.531E+10	8.617E+09	8.629E+09	5.526E+09	5.536E+09
10	5.625E+10	5.629E+10	2.502E+10	2.504E+10	1.409E+10	1.411E+10	6.274E+09	6.281E+09	3.536E+09	3.543E+09	2.268E+09	2.272E+09
15	1.118E+10	1.119E+10	4.975E+09	4.982E+09	2.801E+09	2.803E+09	1.247E+09	1.250E+09	7.030E+08	7.042E+08	4.508E+08	4.514E+08
20	3.570E+09	3.575E+09	1.588E+09	1.589E+09	8.942E+08	8.941E+08	3.982E+08	3.988E+08	2.244E+08	2.247E+08	1.439F+08	1.443E+08
30	7.233E+08	7.238E+08	3.218E+08	3.227E+08	1.812E+08	1.813E+08	8.068E+07	8.087E+07	4.547E+07	4.577E+07	2.916E+07	2.940E+07
45	1.513E+08	1.514E+08	6.733E+07	6.732E+07	3.791E+07	3.812E+07	1.688E+07	1.703E+07	9.514E+06	9.552E+06	6.101E+06	6.095E+06
60	5.193E+07	5.203E+07	2.310E+07	2.335E+07	1.301E+07	1.310E+07	5.793E+06	5.763E+06	3.265E+06	3.227E+06	2.093E+06	2.068E+06
75	2.363E+07	2.394E+07	1.051E+07	1.048E+07	5.920E+06	5.866E+06	2.636E+06	2.576E+06	1.486E+06	1.461E+06	9.527E+05	9.469E+05
90	1.298E+07	1.271E+07	5.776E+06	5.566E+06	3.252E+06	3.138E+06	1.448E+06	1.423E+06	8.162E+05	8.199E+05	5.234E+05	5.365E+05
120	5.770E+06	5.736E+06	2.567E+06	2.657E+06	1.445E+06	1.541E+06	6.436E+05	7.149E+05	3.627E+05	4.139E+05	2.326E+05	2.706E+05
150	3.728E+06	4.547E+06	1.659E+06	2.075E+06	9.339E+05	1.188E+06	4.159E+05	5.403E+05	2.344E+05	3.084E+05	1.503E+05	1.994E+05
179	3.246E+06	4.322E+06	1.444E+06	1.953E+06	8.131E+05	1.111E+06	3.621E+05	5.007E+05	2.041E+05	2.842E+05	1.309E+05	1.829E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.156E+13	1.156E+13	5.695E+12	5.699E+12	2.555E+12	2.567E+12	1.451E+12	1.452E+12	6.566E+11	6.574E+11	3.755E+11	3.765E+11
2	7.223E+11	7.230E+11	3.560E+11	3.564E+11	1.597E+11	1.599E+11	9.068E+10	9.081E+10	4.104E+10	4.113E+10	2.350F+10	2.356E+10
3	1.427E+11	1.429E+11	7.033E+10	7.043E+10	3.156E+10	3.141E+10	1.792E+10	1.795E+10	8.109E+09	8.134F+09	4.643E+09	4.660E+09
4	4.517E+10	4.523E+10	2.226E+10	2.230E+10	9.988E+09	1.001E+10	5.671E+09	5.666E+09	2.567E+09	2.577E+09	1.470E+09	1.476E+09
6	8.932E+09	8.948E+09	4.402E+09	4.410E+09	1.975E+09	1.981E+09	1.121E+09	1.126E+09	5.075E+08	5.102E+08	2.906E+08	2.923E+08
8	2.830E+09	2.835E+09	1.395E+09	1.398E+09	6.258E+08	6.255E+08	3.553E+08	3.572E+08	1.608E+08	1.618E+08	9.207E+07	9.271E+07
10	1.161E+09	1.163E+09	5.723E+08	5.742E+08	2.568E+08	2.582E+08	1.458E+08	1.467E+08	6.599E+07	6.641F+07	3.778F+07	3.807E+07
15	2.309E+08	2.317E+08	1.138E+08	1.145E+08	5.105E+07	5.138E+07	2.898E+07	2.915E+07	1.312E+07	1.321E+07	7.510E+06	7.596E+06
20	7.370E+07	7.419E+07	3.632E+07	3.658E+07	1.630E+07	1.637E+07	9.252E+06	9.292E+06	4.188E+06	4.229E+06	2.398E+06	2.442E+06
30	1.493E+07	1.502E+07	7.360E+06	7.369E+06	3.302E+06	3.307E+06	1.875E+06	1.890E+06	8.485E+05	8.710E+05	4.858E+05	5.075E+05
45	3.125E+06	3.107E+06	1.540E+06	1.538E+06	6.909E+05	7.023E+05	3.922E+05	4.066E+05	1.775E+05	1.902E+05	1.016E+05	1.117E+05
60	1.072E+06	1.068E+06	5.284E+05	5.373E+05	2.371E+05	2.442E+05	1.346E+05	1.453E+05	6.092E+04	6.832E+04	3.488E+04	4.015E+04
75	4.879E+05	4.968E+05	2.405E+05	2.528E+05	1.079E+05	1.180E+05	6.125E+04	6.885E+04	2.772E+04	3.229F+04	1.587E+04	1.890E+04
90	2.680E+05	2.840E+05	1.321E+05	1.450E+05	5.927E+04	6.756E+04	3.365E+04	3.928E+04	1.523E+04	1.827E+04	8.720E+03	1.061E+04
120	1.191E+05	1.422E+05	5.871E+04	7.172E+04	2.634E+04	3.278E+04	1.496E+04	1.875E+04	6.769E+03	8.490F+03	3.876E+03	4.822E+03
150	7.698E+04	1.031E+05	3.794E+04	5.106E+04	1.702E+04	2.284E+04	9.664E+03	1.285E+04	4.374E+03	5.673E+03	2.504E+03	3.155E+03
179	6.762E+04	9.396E+04	3.303E+04	4.620E+04	1.482E+04	2.060E+04	8.414E+03	1.146E+04	3.808E+03	5.006E+03	2.180E+03	2.761E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	2.448E+11	2.452E+11	1.291E+11	1.294E+11	6.626E+10	6.644E+10	3.159E+10	3.170E+10	1.891E+10	1.898E+10	9.343E+09	9.388E+09
2	1.530E+10	1.535E+10	8.069E+09	8.100E+09	4.142E+09	4.162E+09	1.975E+09	1.987E+09	1.182E+09	1.191F+09	5.840E+08	5.893E+08
3	3.023E+09	3.036E+09	1.594E+09	1.603E+09	8.184E+08	8.239E+08	3.901E+08	3.937E+08	2.336E+08	2.361E+08	1.154E+08	1.170E+08
4	9.568E+08	9.619E+08	5.046E+08	5.079E+08	2.590E+08	2.613E+08	1.235E+08	1.250E+08	7.392E+07	7.501E+07	3.652E+07	3.720E+07
6	1.892E+08	1.905E+08	9.978E+07	1.007E+08	5.122E+07	5.188E+07	2.442E+07	2.487E+07	1.462E+07	1.495E+07	7.222E+06	7.431E+06
8	5.995E+07	6.045E+07	3.161E+07	3.200E+07	1.623E+07	1.662E+07	7.737E+06	7.938E+06	4.631E+06	4.780E+06	2.288E+06	2.381E+06
10	2.460E+07	2.485E+07	1.297E+07	1.318E+07	6.659E+06	6.817E+06	3.175E+06	3.284E+06	1.901E+06	1.981E+06	9.390E+05	9.883E+05
15	4.890E+06	4.972E+06	2.579E+06	2.650E+06	1.324E+06	1.379E+06	6.311E+05	6.681E+05	3.778E+05	4.044E+05	1.867E+05	2.026E+05
20	1.561E+06	1.604E+06	8.233E+05	8.597E+05	4.226E+05	4.465E+05	2.015E+05	2.188E+05	1.206E+05	1.328E+05	5.959E+04	6.671E+04
30	3.163E+05	3.355E+05	1.668E+05	1.812E+05	8.563E+04	9.535E+04	4.082E+04	4.666E+04	2.444E+04	2.839F+04	1.207E+04	1.430E+04
45	6.618E+04	7.415E+04	3.490E+04	4.022E+04	1.792E+04	2.120E+04	8.541E+03	1.037E+04	5.113E+03	6.304F+03	2.526E+03	3.167E+03
60	2.271E+04	2.663E+04	1.198E+04	1.440E+04	6.148E+03	7.565E+03	2.931E+03	3.669E+03	1.755E+03	2.216E+03	8.669E+02	1.104E+03
75	1.034E+04	1.248E+04	5.451E+03	6.695E+03	2.798E+03	3.476E+03	1.334E+03	1.665E+03	7.985E+02	9.954E+02	3.945E+02	4.882E+02
90	5.678E+03	6.957E+03	2.994E+03	3.687E+03	1.537E+03	1.886E+03	7.327E+02	8.858E+02	4.387E+02	5.215E+02	2.167E+02	2.500E+02
120	2.523E+03	3.103E+03	1.331E+03	1.591E+03	6.831E+02	7.808E+02	3.257E+02	3.467E+02	1.950E+02	1.948E+02	9.632E+01	8.681E+01
150	1.631E+03	1.993E+03	8.599E+02	9.891E+02	4.414E+02	4.565E+02	2.104E+02	1.937E+02	1.260E+02	1.027E+02	6.224E+01	4.121E+01
179	1.420E+03	1.731E+03	7.487E+02	8.472E+02	3.843E+02	3.555E+02	1.832E+02	1.579E+02	1.097E+02	8.127E+01	5.419E+01	3.065E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	6.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	5.732E+09	5.763E+09	3.944E+09	3.967E+09	2.255E+09	2.270E+09	1.248E+09	1.256E+09	6.314E+08	6.359F+08	3.857F+08	3.884E+08
2	3.582E+08	3.619E+08	2.465E+08	2.492E+08	1.410E+08	1.427E+08	7.800E+07	7.901E+07	3.947E+07	4.001F+07	2.411F+07	2.444E+07
3	7.079E+07	7.189E+07	4.871E+07	4.952E+07	2.785E+07	2.836E+07	1.541E+07	1.571E+07	7.798E+06	7.958F+06	4.763F+06	4.863E+06
4	2.241E+07	2.288E+07	1.542E+07	1.577E+07	8.816E+06	9.035E+06	4.878E+06	5.007E+06	2.468E+06	2.537E+06	1.508F+06	1.550E+06
6	4.430E+06	4.576E+06	3.048E+06	3.156E+06	1.743E+06	1.811E+06	9.645E+05	1.004E+06	4.881E+05	5.090F+05	2.981F+05	3.112E+05
8	1.404E+06	1.468E+06	9.659E+05	1.013E+06	5.523E+05	5.817E+05	3.056E+05	3.229E+05	1.546E+05	1.638E+05	9.446F+04	1.001E+05
10	5.760E+05	6.099E+05	3.963E+05	4.214E+05	2.267E+05	2.421E+05	1.254E+05	1.345E+05	6.346E+04	6.824F+04	3.876F+04	4.174E+04
15	1.145E+05	1.253E+05	7.879E+04	8.669E+04	4.506E+04	4.990E+04	2.493E+04	2.775E+04	1.261E+04	1.410E+04	7.705F+03	8.624E+03
20	3.656E+04	4.133E+04	2.515E+04	2.862E+04	1.438E+04	1.649E+04	7.958E+03	9.178E+03	4.027E+03	4.664E+03	2.460F+03	2.854E+03
30	7.407E+03	8.870E+03	5.096E+03	6.146E+03	2.915E+03	3.544E+03	1.613E+03	1.973E+03	8.160E+02	1.003E+03	4.984F+02	6.138E+02
45	1.550E+03	1.960E+03	1.066E+03	1.356E+03	6.098E+02	7.862E+02	3.374E+02	4.335E+02	1.707E+02	2.200E+02	1.043F+02	1.345E+02
60	5.318E+02	6.788E+02	3.659E+02	4.675E+02	2.093E+02	2.674E+02	1.158E+02	1.479E+02	5.859E+01	7.478F+01	3.578F+01	4.565E+01
75	2.420E+02	2.972E+02	1.665E+02	2.031E+02	9.523E+01	1.151E+02	5.269E+01	6.311E+01	2.666E+01	3.171F+01	1.282F+01	1.930E+01
90	1.330E+02	1.498E+02	9.148E+01	1.012E+02	5.231E+01	5.644E+01	2.894E+01	3.055E+01	1.465E+01	1.519F+01	6.946F+00	9.199E+00
120	5.909E+01	4.920E+01	4.066E+01	3.184E+01	2.325E+01	1.670E+01	1.286E+01	8.547E+00	6.510E+00	4.051E+00	3.976E+00	2.397E+00
150	3.818E+01	2.128E+01	2.627E+01	1.267E+01	1.502E+01	5.783E+00	8.312E+00	2.536E+00	4.206E+00	1.021F+00	2.569F+00	5.495E+01
179	3.324E+01	1.484E+01	2.287E+01	8.269E+00	1.308E+01	3.286E+00	7.237E+00	1.165E+00	3.652E+00	3.326E+01	2.237E+00	1.304E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	1.892E+08	1.906E+08	1.127E+08	1.135E+08	7.485E+07	7.540E+07	3.997E+07	4.027E+07	2.032E+07	2.047F+07	9.307E+06	9.376E+06
2	1.183E+07	1.199E+07	7.043E+06	7.143E+06	4.679E+06	4.745E+06	2.499E+06	2.534E+06	1.270E+06	1.288F+06	5.818F+05	5.901E+05
3	2.337E+06	2.386E+06	1.392E+06	1.421E+06	9.244E+05	9.444E+05	4.937E+05	5.044E+05	2.510E+05	2.564F+05	1.149F+05	1.174E+05
4	7.396E+05	7.609E+05	4.405E+05	4.533E+05	2.926E+05	3.011E+05	1.563E+05	1.608E+05	7.943E+04	8.176F+04	3.638E+04	3.745E+04
6	1.462E+05	1.528E+05	8.709E+04	9.100E+04	5.786E+04	6.046E+04	3.090E+04	3.230E+04	1.571E+04	1.642F+04	7.194F+03	7.520E+03
8	4.634E+04	4.917E+04	2.760E+04	2.929E+04	1.833E+04	1.946E+04	9.791E+03	1.040E+04	4.977F+03	5.285F+03	2.280E+03	2.421E+03
10	1.901E+04	2.050E+04	1.132E+04	1.221E+04	7.523E+03	8.114E+03	4.018E+03	4.335E+03	2.042E+03	2.204F+03	9.354E+02	1.009E+03
15	3.780E+03	4.236E+03	2.251E+03	2.525E+03	1.495E+03	1.678E+03	7.987E+02	8.962E+02	4.060E+02	4.556E+02	1.859F+02	2.087E+02
20	1.207E+03	1.403E+03	7.186E+02	8.33E+02	4.774E+02	5.555E+02	2.550E+02	2.967E+02	1.296E+02	1.509F+02	5.936F+01	6.911E+01
30	2.445E+02	3.016E+02	1.456E+02	1.797E+02	9.673E+01	1.199E+02	5.166E+01	6.381E+01	2.626E+01	3.244F+01	1.203F+01	1.486E+01
45	5.116E+01	6.607E+01	3.047E+01	3.937E+01	2.024E+01	2.616E+01	1.081E+01	1.397E+01	5.494E+00	7.103E+00	2.517E+00	3.254E+00
60	1.755E+01	2.238E+01	1.045E+01	1.333E+01	6.945E+00	8.833E+00	3.709E+00	4.728E+00	1.885E+00	2.403F+00	8.636F+01	1.101E+00
75	7.989E+00	9.438E+00	4.758E+00	5.614E+00	3.161E+00	3.727E+00	1.688E+00	1.989E+00	8.580E+01	1.011E+00	3.930F+01	4.628E+01
90	4.389E+00	4.475E+00	2.614E+00	2.659E+00	1.736E+00	1.764E+00	9.273E+01	9.405E+01	4.714E+01	4.777F+01	2.159F+01	2.187E+01
120	1.950E+00	1.142E+00	1.162E+00	6.721E+00	7.717E+01	4.437E+01	4.121E+01	2.356E+01	2.095E+01	1.193E+01	9.595E+02	5.456E+02
150	1.260E+00	2.378E+01	7.506E+01	1.338E+01	4.986E+01	8.627E+02	2.663E+01	4.476E+02	1.354E+01	2.237F+02	6.200F+02	1.015E+02
179	1.097E+00	3.279E+02	6.535E+01	1.187E+02	4.341E+01	5.911E+03	2.319E+01	1.547E+03	1.179E+01	4.124F+04	5.398E+02	9.223E+05
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	5.318E+06	5.357E+06	2.401E+06	2.419E+06	1.362E+06	1.372E+06	8.759E+05	8.824E+05	4.495E+05	4.528F+05	2.212F+05	2.228E+05
2	3.324E+05	3.372E+05	1.501E+05	1.523E+05	8.513E+04	8.635E+04	5.475E+04	5.554E+04	2.809E+04	2.850F+04	1.383F+04	1.402E+04
3	6.568E+04	6.710E+04	2.966E+04	3.030E+04	1.682E+04	1.719E+04	1.082E+04	1.105E+04	5.551E+03	5.672F+03	2.732F+03	2.791E+03
4	2.079E+04	2.140E+04	9.388E+03	9.664E+03	5.324E+03	5.440E+03	3.424E+03	3.525E+03	1.757E+03	1.809F+03	8.646E+02	8.900E+02
6	4.110E+03	4.297E+03	1.850E+03	1.940E+03	1.053E+03	1.100E+03	6.771E+02	7.078E+02	3.474E+02	3.632E+02	1.710E+02	1.787E+02
8	1.302E+03	1.383E+03	5.882E+02	6.247E+02	3.335E+02	3.543E+02	2.145E+02	2.279E+02	1.101E+02	1.169F+02	5.417E+01	5.753E+01
10	5.344E+02	5.767E+02	2.414E+02	2.605E+02	1.369E+02	1.477E+02	8.803E+01	9.500E+01	4.517E+01	4.875E+01	2.233F+01	2.399E+01
15	1.052E+02	1.192E+02	4.798E+01	5.385E+01	2.721E+01	3.064E+01	1.750E+01	1.964E+01	8.980E+00	1.008F+01	4.419F+00	4.960E+00
20	3.392E+01	3.949E+01	1.532E+01	1.783E+01	8.688E+00	1.011E+01	5.587E+00	6.505E+00	2.867E+00	3.338F+00	1.411E+00	1.642E+00
30	6.872E+00	8.491E+00	3.102E+00	3.835E+00	1.760E+00	2.175E+00	1.132E+00	1.399E+00	5.809E+01	7.177F+01	2.858F+01	3.532E+01
45	1.438E+00	1.859E+00	6.494E+00	8.396E+00	3.683E+01	4.741E+01	2.369E+01	3.062E+01	1.215F+01	1.571F+01	5.981F+02	7.733E+02
60	4.934E+01	6.289E+01	2.228E+01	2.840E+01	1.264E+01	1.611E+01	8.127E+02	1.036E+01	4.170E+02	5.315F+02	2.052F+02	2.616E+02
75	2.245E+01	2.644E+01	1.014E+01	1.194E+01	5.751E+02	6.772E+02	3.699E+02	4.355E+02	1.898E+02	2.235E+02	9.340E+03	1.100E+02
90	1.234E+01	1.249E+01	5.571E+02	5.641E+02	3.159E+02	3.199E+02	2.032E+02	2.057E+02	1.043E+02	1.056F+02	5.131F+03	5.195E+03
120	5.482E+02	3.115E+02	2.476E+02	1.406E+02	1.404E+02	7.973E+03	9.030E+03	5.128E+03	4.634E+03	2.631F+03	2.280F+03	1.295E+03
150	3.542E+02	5.777E+03	1.600E+02	2.602E+03	9.073E+03	1.474E+03	5.635E+03	9.479E+04	2.994E+03	4.862F+04	1.473F+03	2.392E+04
179	3.084E+02	3.262E+05	1.393E+02	8.097E+06	7.899E+03	3.249E+06	5.080E+03	1.686E+06	2.607F+03	6.830F+07	1.283F+03	2.882E+07

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	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	5.823E+14	5.826E+14	2.590E+14	2.592E+14	1.459E+14	1.459E+14	6.499E+13	6.499E+13	3.661E+13	3.663E+13	2.347E+13	2.349E+13
2	3.640E+13	3.642E+13	1.619E+13	1.623E+13	9.117E+12	9.123E+12	4.060E+12	4.063E+12	2.288E+12	2.290E+12	1.467E+12	1.468E+12
3	7.192E+12	7.196E+12	3.199E+12	3.202E+12	1.801E+12	1.803E+12	8.022E+11	8.028E+11	4.521E+11	4.525E+11	2.899E+11	2.902E+11
4	2.276E+12	2.278E+12	1.013E+12	1.013E+12	5.702E+11	5.706E+11	2.539E+11	2.541E+11	1.431E+11	1.432E+11	9.176E+10	9.186E+10
6	4.501E+11	4.504E+11	2.002E+11	2.004E+11	1.127E+11	1.128E+11	5.021E+10	5.026E+10	2.830E+10	2.833E+10	1.814E+10	1.817E+10
8	1.426E+11	1.427E+11	6.345E+10	6.351E+10	3.572E+10	3.576E+10	1.591E+10	1.593E+10	8.966E+09	8.977E+09	5.749E+09	5.760E+09
10	5.852E+10	5.856E+10	2.604E+10	2.606E+10	1.466E+10	1.468E+10	6.528E+09	6.535E+09	3.679E+09	3.686E+09	2.359E+09	2.364E+09
15	1.163E+10	1.164E+10	5.176E+09	5.183E+09	2.914E+09	2.917E+09	1.298E+09	1.301E+09	7.314E+08	7.329E+08	4.690E+08	4.697E+08
20	3.714E+09	3.719E+09	1.652E+09	1.653E+09	9.303E+08	9.351E+08	4.143E+08	4.151E+08	2.335E+08	2.337E+08	1.497E+08	1.501E+08
30	7.525E+08	7.529E+08	3.348E+08	3.358E+08	1.885E+08	1.947E+08	8.394E+07	8.409E+07	4.731E+07	4.761E+07	3.034E+07	3.059E+07
45	1.575E+08	1.577E+08	7.005E+07	7.000E+07	3.944E+07	3.943E+07	1.756E+07	1.772E+07	9.898E+06	9.950E+06	6.347E+06	6.347E+06
60	5.403E+07	5.407E+07	2.404E+07	2.429E+07	1.353E+07	1.365E+07	6.027E+06	6.004E+06	3.397E+06	3.358E+06	2.178E+06	2.150E+06
75	2.459E+07	2.494E+07	1.094E+07	1.093E+07	6.159E+06	6.048E+06	2.743E+06	2.677E+06	1.546E+06	1.516E+06	9.912E+05	9.822E+05
90	1.351E+07	1.325E+07	6.009E+06	5.786E+06	3.383E+06	3.256E+06	1.507E+06	1.475E+06	8.491E+05	8.498E+05	4.445E+05	4.562E+05
120	6.003E+06	5.938E+06	2.671E+06	2.755E+06	1.504E+06	1.600E+06	6.696E+05	7.435E+05	3.774E+05	4.311E+05	2.420E+05	2.821E+05
150	3.879E+06	4.753E+06	1.726E+06	2.172E+06	9.717E+05	1.245E+06	4.327E+05	5.667E+05	2.439E+05	3.238E+05	1.564E+05	2.095E+05
179	3.377E+06	4.539E+06	1.502E+06	2.052E+06	8.460E+05	1.148E+06	3.767E+05	5.269E+05	2.123E+05	2.992E+05	1.361E+05	1.927E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.202E+13	1.203E+13	5.925E+12	5.929E+12	2.658E+12	2.641E+12	1.809E+12	1.511E+12	6.831E+11	6.840E+11	3.911E+11	3.917E+11
2	7.515E+11	7.522E+11	3.703E+11	3.707E+11	1.662E+11	1.644E+11	9.434E+10	9.448E+10	4.270E+10	4.279E+10	2.445E+10	2.451E+10
3	1.885E+11	1.886E+11	7.317E+10	7.328E+10	3.283E+10	3.248E+10	1.864E+10	1.866E+10	8.437E+09	8.442E+09	4.839E+09	4.848E+09
4	4.700E+10	4.706E+10	2.316E+10	2.320E+10	1.039E+10	1.041E+10	5.900E+09	5.915E+09	2.670E+09	2.681E+09	1.529E+09	1.536E+09
6	9.293E+09	9.310E+09	4.580E+09	4.588E+09	2.055E+09	2.041E+09	1.167E+09	1.171E+09	5.280E+08	5.309E+08	3.023E+08	3.042E+08
8	2.945E+09	2.950E+09	1.451E+09	1.454E+09	6.510E+08	6.539E+08	3.696E+08	3.717E+08	1.673E+08	1.684E+08	9.579E+07	9.646E+07
10	1.208E+09	1.210E+09	5.955E+08	5.973E+08	2.672E+08	2.687E+08	1.517E+08	1.527E+08	6.865E+07	6.911E+07	3.931E+07	3.961E+07
15	2.402E+08	2.410E+08	1.184E+08	1.191E+08	5.311E+07	5.348E+07	3.015E+07	3.033E+07	1.365E+07	1.374E+07	7.814E+06	7.898E+06
20	7.668E+07	7.718E+07	3.779E+07	3.808E+07	1.695E+07	1.704E+07	9.626E+06	9.668E+06	4.357E+06	4.397E+06	2.494E+06	2.538E+06
30	1.554E+07	1.564E+07	7.657E+06	7.671E+06	3.435E+06	3.449E+06	1.950E+06	1.964E+06	8.828E+05	9.046E+05	5.054E+05	5.271E+05
45	3.251E+06	3.233E+06	1.602E+06	1.598E+06	7.188E+05	7.291E+05	4.081E+05	4.221E+05	1.847E+05	1.974E+05	1.058E+05	1.161E+05
60	1.116E+06	1.109E+06	5.497E+05	5.576E+05	2.466E+05	2.587E+05	1.400E+05	1.509E+05	6.338E+04	7.110E+04	3.629E+04	4.183E+04
75	5.076E+05	5.152E+05	2.502E+05	2.623E+05	1.122E+05	1.246E+05	6.373E+04	7.164E+04	2.884E+04	3.368E+04	1.651E+04	1.974E+04
90	2.789E+05	2.948E+05	1.374E+05	1.507E+05	6.166E+04	7.038E+04	3.501E+04	4.098E+04	1.585E+04	1.910E+04	9.072E+03	1.111E+04
120	1.239E+05	1.486E+05	6.108E+04	7.502E+04	2.740E+04	3.435E+04	1.556E+04	1.967E+04	7.042E+03	8.921E+03	4.032E+03	5.072E+03
150	8.009E+04	1.084E+05	3.947E+04	5.373E+04	1.771E+04	2.406E+04	1.005E+04	1.355E+04	4.551E+03	5.945E+03	2.605E+03	3.330E+03
179	6.973E+04	9.904E+04	3.436E+04	4.873E+04	1.542E+04	2.144E+04	8.753E+03	1.210E+04	3.962E+03	5.290E+03	2.268E+03	2.918E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	2.547E+11	2.551E+11	1.343E+11	1.346E+11	6.894E+10	6.913E+10	3.286E+10	3.298E+10	1.967E+10	1.975E+10	9.721E+09	9.767E+09
2	1.592E+10	1.597E+10	8.395E+09	8.427E+09	4.309E+09	4.330E+09	2.054E+09	2.067E+09	1.230E+09	1.239E+09	6.076E+08	6.132E+08
3	3.145E+09	3.159E+09	1.659E+09	1.667E+09	8.514E+08	8.571E+08	4.059E+08	4.096E+08	2.430E+08	2.456E+08	1.201E+08	1.217E+08
4	9.955E+08	1.001E+09	5.250E+08	5.284E+08	2.695E+08	2.718E+08	1.285E+08	1.300E+08	7.691E+07	7.804E+07	3.800E+07	3.870E+07
6	1.968E+08	1.982E+08	1.038E+08	1.047E+08	5.329E+07	5.337E+07	2.540E+07	2.587E+07	1.521E+07	1.555E+07	7.514E+06	7.731E+06
8	6.237E+07	6.289E+07	3.289E+07	3.328E+07	1.688E+07	1.718E+07	8.049E+06	8.256E+06	4.819E+06	4.977E+06	2.381E+06	2.477E+06
10	2.559E+07	2.585E+07	1.350E+07	1.370E+07	6.928E+06	7.049E+06	3.303E+06	3.415E+06	1.977E+06	2.060E+06	9.770E+05	1.028E+06
15	5.088E+06	5.169E+06	2.683E+06	2.755E+06	1.377E+06	1.444E+06	6.566E+05	6.948E+05	3.931E+05	4.207E+05	1.942E+05	2.109E+05
20	1.624E+06	1.667E+06	8.565E+05	8.935E+05	4.397E+05	4.674E+05	2.096E+05	2.276E+05	1.255E+05	1.382E+05	6.200E+04	6.948E+04
30	3.291E+05	3.486E+05	1.736E+05	1.884E+05	8.909E+04	9.944E+04	4.247E+04	4.861E+04	2.543E+04	2.940E+04	1.256E+04	1.493E+04
45	6.886E+04	7.717E+04	3.631E+04	4.191E+04	1.864E+04	2.213E+04	8.886E+03	1.084E+04	5.320E+03	6.595E+03	2.628E+03	3.371E+03
60	2.363E+04	2.778E+04	1.246E+04	1.505E+04	6.396E+03	7.906E+03	3.049E+03	3.845E+03	1.825E+03	2.325E+03	9.019E+02	1.159E+03
75	1.075E+04	1.305E+04	5.671E+03	7.013E+03	2.911E+03	3.647E+03	1.388E+03	1.750E+03	8.307E+02	1.047E+03	4.105E+02	5.143E+02
90	5.907E+03	7.292E+03	3.115E+03	3.870E+03	1.599E+03	1.943E+03	7.623E+02	9.328E+02	4.564E+02	5.497E+02	2.255E+02	2.639E+02
120	2.625E+03	3.266E+03	1.385E+03	1.676E+03	7.107E+02	8.245E+02	3.388E+02	3.661E+02	2.028E+02	2.059E+02	1.002E+02	1.145E+01
150	1.696E+03	2.105E+03	8.947E+02	1.048E+03	4.592E+02	4.915E+02	2.189E+02	2.048E+02	1.311E+02	1.047E+02	6.476E+01	4.316E+01
179	1.477E+03	1.830E+03	7.789E+02	8.968E+02	3.908E+02	4.174E+02	1.906E+02	1.671E+02	1.141E+02	8.597E+01	5.638E+01	3.242E+01

SR (51)

(BARNES/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
0EG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	5.963E+09	5.996E+09	4.103E+09	4.127E+09	2.346E+09	2.361E+09	1.298E+09	1.307E+09	6.569E+08	6.616E+08	4.012E+08	4.041E+08
2	3.728E+08	3.746E+08	2.565E+08	2.593E+08	1.467E+08	1.485E+08	8.115E+07	8.220E+07	4.106E+07	4.162E+07	2.508E+07	2.543E+07
3	7.365E+07	7.479E+07	5.067E+07	5.152E+07	2.898E+07	2.941E+07	1.603E+07	1.635E+07	8.113E+06	8.280E+06	4.956E+06	5.060E+06
4	2.331E+07	2.380E+07	1.604E+07	1.640E+07	9.172E+06	9.401E+06	5.075E+06	5.210E+06	2.568E+06	2.640E+06	1.569E+06	1.613E+06
6	4.609E+06	4.761E+06	3.171E+06	3.284E+06	1.814E+06	1.884E+06	1.003E+06	1.045E+06	5.078E+05	5.297E+05	3.101E+05	3.238E+05
8	1.461E+06	1.527E+06	1.005E+06	1.054E+06	5.747E+05	6.054E+05	3.179E+05	3.360E+05	1.609E+05	1.705E+05	9.827E+04	1.042E+05
10	5.993E+05	6.347E+05	4.124E+05	4.385E+05	2.358E+05	2.520E+05	1.305E+05	1.400E+05	5.602E+04	7.105E+04	4.033E+04	4.345E+04
15	1.191E+05	1.305E+05	8.197E+04	9.028E+04	4.688E+04	5.198E+04	2.594E+04	2.891E+04	1.312E+04	1.469E+04	8.016E+03	8.986E+03
20	3.803E+04	4.306E+04	2.617E+04	2.983E+04	1.496E+04	1.719E+04	8.280E+03	9.571E+03	4.190E+03	4.865E+03	2.559E+03	2.977E+03
30	7.706E+03	9.262E+03	5.302E+03	6.420E+03	3.032E+03	3.704E+03	1.678E+03	2.062E+03	8.490E+02	1.049E+03	5.185E+02	6.418E+02
45	1.612E+03	2.054E+03	1.109E+03	1.422E+03	6.344E+02	8.184E+02	3.510E+02	4.549E+02	1.776E+02	2.310E+02	1.085E+02	1.413E+02
60	5.533E+02	7.137E+02	3.807E+02	4.918E+02	2.177E+02	2.815E+02	1.205E+02	1.557E+02	6.095E+01	7.878E+01	3.723E+01	4.810E+01
75	2.518E+02	3.133E+02	1.732E+02	2.143E+02	9.907E+01	1.215E+02	5.482E+01	6.666E+01	2.774E+01	3.351E+01	1.694E+01	2.040E+01
90	1.383E+02	1.583E+02	9.517E+01	1.070E+02	5.443E+01	5.972E+01	3.011E+01	3.235E+01	1.524E+01	1.609E+01	9.307E+00	9.748E+00
120	6.148E+01	5.211E+01	4.230E+01	3.374E+01	2.419E+01	1.771E+01	1.338E+01	9.077E+00	6.773E+00	4.306E+00	4.137E+00	2.549E+00
150	3.973E+01	2.253E+01	2.733E+01	1.342E+01	1.563E+01	6.110E+00	8.648E+00	2.691E+00	4.376E+00	1.085E+00	2.673E+00	5.847E-01
179	3.459E+01	1.569E+01	2.380E+01	8.744E+00	1.361E+01	3.474E+00	7.529E+00	1.232E+00	3.810E+00	3.514E+01	2.327E+00	1.378E-01
0EG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	1.968E+08	1.983E+08	1.172E+08	1.181E+08	7.787E+07	7.845E+07	4.159E+07	4.190E+07	2.114E+07	2.130E+07	9.683E+06	9.755E+06
2	1.230E+07	1.248E+07	7.328E+06	7.432E+06	4.868E+06	4.938E+06	2.600E+06	2.637E+06	1.321E+06	1.340E+06	6.053E+05	6.140E+05
3	2.431E+06	2.493E+06	1.448E+06	1.479E+06	9.618E+05	9.826E+05	5.137E+05	5.248E+05	2.611E+05	2.668E+05	1.196E+05	1.222E+05
4	7.694E+05	7.918E+05	4.583E+05	4.716E+05	3.044E+05	3.133E+05	1.626E+05	1.674E+05	8.264E+04	8.508E+04	3.785E+04	3.867E+04
6	1.521E+05	1.590E+05	9.061E+04	9.471E+04	6.019E+04	6.292E+04	3.215E+04	3.361E+04	1.634E+04	1.709E+04	7.485E+03	7.826E+03
8	4.821E+04	5.118E+04	2.871E+04	3.049E+04	1.907E+04	2.026E+04	1.019E+04	1.082E+04	5.178E+03	5.501E+03	2.372E+03	2.520E+03
10	1.978E+04	2.134E+04	1.178E+04	1.272E+04	7.827E+03	8.449E+03	4.189E+03	4.513E+03	2.125E+03	2.294E+03	9.732E+02	1.051E+03
15	3.932E+03	4.154E+03	2.342E+03	2.631E+03	1.567E+03	1.748E+03	8.309E+02	9.339E+02	4.224E+02	4.748E+02	1.935E+02	2.175E+02
20	1.255E+03	1.443E+03	7.477E+02	8.720E+02	4.967E+02	5.795E+02	2.653E+02	3.096E+02	1.348E+02	1.574E+02	6.176E+01	7.210E+01
30	2.544E+02	3.154E+02	1.515E+02	1.880E+02	1.006E+02	1.249E+02	5.375E+01	6.674E+01	2.732E+01	3.393E+01	1.251E+01	1.554E+01
45	5.322E+01	6.938E+01	3.170E+01	4.134E+01	2.106E+01	2.747E+01	1.125E+01	1.467E+01	5.716E+00	7.459E+00	2.618E+00	3.417E+00
60	1.826E+01	2.359E+01	1.088E+01	1.405E+01	7.226E+00	9.331E+00	3.859E+00	4.983E+00	1.942E+00	2.533E+00	8.985E-01	1.160E+00
75	8.311E+00	9.977E+00	4.950E+00	5.935E+00	3.288E+00	3.940E+00	1.756E+00	2.103E+00	8.927E-01	1.069E+00	4.089E-01	4.894E-01
90	4.566E+00	4.747E+00	2.719E+00	2.819E+00	1.806E+00	1.870E+00	9.647E-01	9.970E-01	4.904E-01	5.064E-01	2.246E-01	2.318E-01
120	2.829E+00	2.215E+00	1.209E+00	7.151E-01	8.029E-01	4.722E-01	4.288E-01	2.507E-01	2.180E-01	1.270E-01	9.983E-02	5.807E-02
150	1.311E+00	2.533E-01	7.809E-01	1.426E-01	5.188E-01	9.186E-02	2.771E-01	4.773E-02	1.408E-01	2.386E-02	6.451E-02	1.082E-02
179	1.142E+00	3.466E-02	6.799E-01	1.255E-02	4.517E-01	5.615E-03	2.412E-01	1.636E-03	1.224E-01	4.362E-04	5.616E-02	9.761E-05
NEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	5.532E+06	5.574E+06	2.499E+06	2.517E+06	1.417E+06	1.428E+06	9.113E+05	9.181E+05	4.676E+05	4.711E+05	2.301E+05	2.318E+05
2	3.458E+05	3.508E+05	1.562E+05	1.584E+05	8.857E+04	8.985E+04	5.697E+04	5.779E+04	2.923E+04	2.965E+04	1.438E+04	1.459E+04
3	8.833E+04	6.982E+04	3.086E+04	3.153E+04	1.750E+04	1.788E+04	1.126E+04	1.150E+04	5.775E+03	5.901E+03	2.842E+03	2.904E+03
4	2.163E+04	2.227E+04	9.767E+03	1.006E+04	5.539E+03	5.720E+03	3.563E+03	3.668E+03	1.828E+03	1.882E+03	8.996E+02	9.261E+02
6	4.276E+03	4.471E+03	1.931E+03	2.019E+03	1.095E+03	1.145E+03	7.044E+02	7.366E+02	3.615E+02	3.779E+02	1.779E+02	1.860E+02
8	1.355E+03	1.440E+03	6.119E+02	6.502E+02	3.470E+02	3.688E+02	2.232E+02	2.372E+02	1.145E+02	1.217E+02	5.639E+01	5.989E+01
10	5.560E+02	6.005E+02	2.511E+02	2.712E+02	1.424E+02	1.548E+02	9.159E+01	9.891E+01	4.700E+01	5.075E+01	2.313E+01	2.498E+01
15	1.105E+02	1.243E+02	4.992E+01	5.612E+01	2.831E+01	3.183E+01	1.821E+01	2.047E+01	9.342E+00	1.050E+01	4.598E+00	5.169E+00
20	3.529E+01	4.119E+01	1.594E+01	1.860E+01	9.037E+00	1.045E+01	5.812E+00	6.786E+00	2.952E+00	3.482E+00	1.468E+00	1.714E+00
30	7.150E+00	8.882E+00	3.229E+00	4.011E+00	1.831E+00	2.275E+00	1.178E+00	1.463E+00	6.043E-01	7.507E-01	2.974E-01	3.694E-01
45	1.496E+00	1.952E+00	6.756E-01	8.817E-01	3.831E-01	5.000E-01	2.464E-01	3.218E-01	1.264E-01	1.850E-01	6.222E-02	8.120E-02
60	5.133E-01	6.428E-01	2.318E-01	2.993E-01	1.315E-01	1.607E-01	8.456E-02	1.092E-01	4.339E-02	5.602E-02	2.135E-02	2.757E-02
75	2.336E-01	2.796E-01	1.055E-01	1.263E-01	5.983E-02	7.140E-02	3.848E-02	4.605E-02	1.975E-02	2.363E-02	9.717E-03	1.163E-02
90	1.283E-01	1.324E-01	5.796E-02	5.980E-02	3.287E-02	3.391E-02	2.114E-02	2.181E-02	1.085E-02	1.119E-02	5.338E-03	5.507E-03
120	5.704E-02	3.316E-02	2.576E-02	1.497E-02	1.461E-02	8.486E-03	9.395E-03	5.457E-03	4.821E-03	2.800E-03	2.372E-03	1.378E-03
150	3.686E-02	6.162E-03	1.664E-02	2.776E-03	4.419E-03	1.573E-03	6.071E-03	1.011E-03	3.115E-03	5.186E-04	1.533E-03	2.552E-04
179	3.209E-02	3.455E-05	1.449E-02	8.586E-06	8.218E-03	3.450E-06	5.286E-03	1.792E-06	2.712E-03	7.271E-07	1.335E-03	3.071E-07

TE (52)

(RARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	6.053E+14	6.057E+14	2.693E+14	2.695E+14	1.516E+14	1.517E+14	6.752E+13	6.757E+13	3.806E+13	3.808E+13	2.440E+13	2.442E+13
2	3.784E+13	3.786E+13	1.683E+13	1.684E+13	9.478E+12	9.485E+12	4.221E+12	4.224E+12	2.379E+12	2.381E+12	1.525E+12	1.527E+12
3	7.476E+12	7.481E+12	3.326E+12	3.328E+12	1.873E+12	1.874E+12	8.340E+11	8.346E+11	4.700E+11	4.704E+11	3.014E+11	3.017E+11
4	2.366E+12	2.368E+12	1.053E+12	1.054E+12	5.928E+11	5.932E+11	2.640E+11	2.642E+11	1.488E+11	1.489E+11	9.539E+10	9.550E+10
6	4.679E+11	4.682E+11	2.082E+11	2.083E+11	1.172E+11	1.173E+11	5.219E+10	5.225E+10	2.942E+10	2.945E+10	1.886E+10	1.889E+10
8	1.483E+11	1.484E+11	6.596E+10	6.602E+10	3.714E+10	3.717E+10	1.654E+10	1.656E+10	9.321E+09	9.332E+09	5.977E+09	5.988E+09
10	6.064E+10	6.088E+10	2.707E+10	2.709E+10	1.524E+10	1.528E+10	6.786E+09	6.794E+09	3.825E+09	3.832E+09	2.453E+09	2.458E+09
15	1.209E+10	1.211E+10	5.380E+09	5.388E+09	3.029E+09	3.032E+09	1.349E+09	1.352E+09	7.603E+08	7.620E+08	4.875E+08	4.883E+08
20	3.861E+09	3.865E+09	1.718E+09	1.719E+09	9.671E+08	9.688E+08	4.307E+08	4.316E+08	2.427E+08	2.430E+08	1.556E+08	1.560E+08
30	7.823E+08	7.826E+08	3.480E+08	3.491E+08	1.960E+08	1.962E+08	8.726E+07	8.738E+07	4.918E+07	4.947E+07	3.154E+07	3.181E+07
45	1.637E+08	1.640E+08	7.282E+07	7.273E+07	4.100E+07	4.117E+07	1.826E+07	1.844E+07	1.029E+07	1.036E+07	6.598E+06	6.606E+06
60	5.617E+07	5.614E+07	2.499E+07	2.526E+07	1.407E+07	1.421E+07	6.265E+06	6.250E+06	3.531E+06	3.492E+06	2.264E+06	2.234E+06
75	2.556E+07	2.596E+07	1.137E+07	1.139E+07	6.403E+06	6.377E+06	2.851E+06	2.781E+06	1.607E+06	1.573E+06	1.030E+06	1.018E+06
90	1.404E+07	1.380E+07	6.247E+06	6.013E+06	3.517E+06	3.317E+06	1.566E+06	1.528E+06	8.828E+05	8.799E+05	5.661E+05	5.761E+05
120	6.241E+06	6.142E+06	2.776E+06	2.853E+06	1.563E+06	1.669E+06	6.961E+05	7.724E+05	3.923E+05	4.485E+05	2.516E+05	2.939E+05
150	4.033E+06	4.965E+06	1.794E+06	2.272E+06	1.010E+06	1.303E+06	4.498E+05	5.940E+05	2.535E+05	3.396E+05	1.626E+05	2.199E+05
179	3.511E+06	4.764E+06	1.562E+06	2.156E+06	8.795E+05	1.227E+06	3.916E+05	5.542E+05	2.207E+05	3.148E+05	1.415E+05	2.028E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.250E+13	1.251E+13	6.159E+12	6.164E+12	2.763E+12	2.766E+12	1.569E+12	1.571E+12	7.101E+11	7.111E+11	4.066E+11	4.072E+11
2	7.813E+11	7.820E+11	3.850E+11	3.854E+11	1.727E+11	1.730E+11	9.807E+10	9.822E+10	4.439E+10	4.448E+10	2.542E+10	2.548E+10
3	1.544E+11	1.545E+11	7.607E+10	7.618E+10	3.413E+10	3.419E+10	1.938E+10	1.942E+10	8.771E+09	8.797E+09	5.022E+09	5.041E+09
4	4.886E+10	4.892E+10	2.408E+10	2.412E+10	1.080E+10	1.082E+10	6.133E+09	6.149E+09	2.776E+09	2.787E+09	1.589E+09	1.597E+09
6	9.661E+09	9.679E+09	4.761E+09	4.770E+09	2.136E+09	2.142E+09	1.213E+09	1.218E+09	5.489E+08	5.520E+08	3.143E+08	3.162E+08
8	3.061E+09	3.067E+09	1.509E+09	1.512E+09	6.768E+08	6.767E+08	3.843E+08	3.864E+08	1.739E+08	1.751E+08	9.958E+07	1.003E+08
10	1.256E+09	1.258E+09	6.190E+08	6.209E+08	2.777E+08	2.793E+08	1.577E+08	1.587E+08	7.137E+07	7.186E+07	4.086E+07	4.118E+07
15	2.497E+08	2.504E+08	1.231E+08	1.238E+08	5.521E+07	5.542E+07	3.135E+07	3.155E+07	1.419E+07	1.428E+07	8.123E+06	8.207E+06
20	7.971E+07	8.022E+07	3.928E+07	3.960E+07	1.763E+07	1.772E+07	1.001E+07	1.005E+07	4.529E+06	4.568E+06	2.593E+06	2.636E+06
30	1.615E+07	1.627E+07	7.960E+06	7.980E+06	3.571E+06	3.574E+06	2.028E+06	2.039E+06	9.177E+05	9.389E+05	5.255E+05	5.471E+05
45	3.380E+06	3.361E+06	1.665E+06	1.659E+06	7.472E+05	7.563E+05	4.242E+05	4.378E+05	1.928E+05	2.051E+05	1.099E+05	1.206E+05
60	1.160E+06	1.151E+06	5.715E+05	5.781E+05	2.564E+05	2.683E+05	1.456E+05	1.567E+05	6.589E+04	7.392E+04	3.773E+04	4.355E+04
75	5.277E+05	5.339E+05	2.601E+05	2.720E+05	1.167E+05	1.273E+05	6.625E+04	7.451E+04	2.999E+04	3.509E+04	1.717E+04	2.060E+04
90	2.899E+05	3.056E+05	1.429E+05	1.566E+05	6.410E+04	7.355E+04	3.639E+04	4.271E+04	1.647E+04	1.995E+04	9.431E+03	1.162E+04
120	1.289E+05	1.550E+05	6.350E+04	7.841E+04	2.849E+04	3.598E+04	1.618E+04	2.062E+04	7.321E+03	9.366E+03	4.192E+03	5.330E+03
150	8.326E+04	1.139E+05	4.103E+04	5.651E+04	1.841E+04	2.533E+04	1.045E+04	1.427E+04	4.731E+03	6.311E+03	2.709E+03	3.514E+03
179	7.249E+04	1.043E+05	3.572E+04	5.137E+04	1.603E+04	2.283E+04	9.100E+03	1.277E+04	4.119E+03	5.588E+03	2.358E+03	3.084E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	2.647E+11	2.652E+11	1.396E+11	1.399E+11	7.167E+10	7.186E+10	3.417E+10	3.429E+10	2.045E+10	2.053E+10	1.011E+10	1.015E+10
2	1.655E+10	1.660E+10	8.727E+09	8.761E+09	4.480E+09	4.501E+09	2.136E+09	2.149E+09	1.279E+09	1.288E+09	6.317E+08	6.374E+08
3	3.270E+09	3.284E+09	1.724E+09	1.733E+09	8.851E+08	8.911E+08	4.220E+08	4.258E+08	2.526E+08	2.554E+08	1.284E+08	1.265E+08
4	1.035E+09	1.040E+09	5.458E+08	5.494E+08	2.802E+08	2.826E+08	1.336E+08	1.351E+08	7.996E+07	8.112E+07	3.950E+07	4.023E+07
6	2.046E+08	2.061E+08	1.079E+08	1.089E+08	5.540E+07	5.609E+07	2.641E+07	2.689E+07	1.581E+07	1.617E+07	7.811E+06	8.036E+06
8	6.484E+07	6.537E+07	3.419E+07	3.459E+07	1.755E+07	1.786E+07	8.368E+06	8.580E+06	5.009E+06	5.168E+06	2.475E+06	2.575E+06
10	2.661E+07	2.686E+07	1.403E+07	1.424E+07	7.203E+06	7.366E+06	3.434E+06	3.549E+06	2.056E+06	2.141E+06	1.016E+06	1.069E+06
15	5.289E+06	5.370E+06	2.789E+06	2.862E+06	1.432E+06	1.489E+06	6.826E+05	7.221E+05	4.086E+05	4.373E+05	2.019E+05	2.193E+05
20	1.688E+06	1.731E+06	8.905E+05	9.279E+05	4.571E+05	4.865E+05	2.179E+05	2.366E+05	1.305E+05	1.437E+05	6.445E+04	7.231E+04
30	3.421E+05	3.619E+05	1.804E+05	1.957E+05	9.262E+04	1.032E+05	4.615E+04	5.061E+04	2.643E+04	3.084E+04	1.306E+04	1.556E+04
45	7.159E+04	8.023E+04	3.775E+04	4.363E+04	1.938E+04	2.307E+04	9.238E+03	1.132E+04	5.531E+03	6.893E+03	2.733E+03	3.471E+03
60	2.456E+04	2.895E+04	1.295E+04	1.571E+04	6.650E+03	8.266E+03	3.170E+03	4.027E+03	1.898E+03	2.438E+03	9.377E+02	1.217E+03
75	1.118E+04	1.364E+04	5.895E+03	7.339E+03	3.026E+03	3.853E+03	1.443E+03	1.838E+03	8.636E+02	1.101E+03	4.267E+02	5.414E+02
90	6.141E+03	7.637E+03	3.239E+03	4.060E+03	1.662E+03	2.083E+03	7.925E+02	9.816E+02	4.744E+02	5.791E+02	2.344E+02	2.784E+02
120	2.729E+03	3.435E+03	1.439E+03	1.765E+03	7.389E+02	8.681E+02	3.522E+02	3.863E+02	2.109E+02	2.175E+02	1.062E+02	9.713E+01
150	1.764E+03	2.221E+03	9.301E+02	1.104E+03	4.774E+02	5.193E+02	2.276E+02	2.165E+02	1.363E+02	1.149E+02	6.737E+01	4.612E+01
179	1.535E+03	1.934E+03	8.098E+02	9.473E+02	4.157E+02	4.371E+02	1.982E+02	1.767E+02	1.186E+02	0.909E+01	5.861E+01	3.427E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	6.289E+11	6.292E+14	2.798E+14	2.799E+14	1.575E+14	1.576E+14	7.015E+13	7.019E+13	3.953E+13	3.956E+13	2.535E+13	2.537E+13
2	3.931E+13	3.933E+13	1.749E+13	1.750E+13	9.847E+12	9.853E+12	4.385E+12	4.388E+12	2.471E+12	2.473E+12	1.585E+12	1.586E+12
3	7.767E+12	7.772E+12	3.455E+12	3.458E+12	1.945E+12	1.947E+12	8.663E+11	8.670E+11	4.883E+11	4.887E+11	3.131E+11	3.134E+11
4	2.458E+12	2.460E+12	1.094E+12	1.094E+12	6.159E+11	6.162E+11	2.742E+11	2.744E+11	1.545E+11	1.547E+11	9.910E+10	9.921E+10
6	4.861E+11	4.864E+11	2.163E+11	2.164E+11	1.218E+11	1.219E+11	5.422E+10	5.428E+10	3.056E+10	3.059E+10	1.960E+10	1.962E+10
8	1.540E+11	1.541E+11	6.852E+10	6.859E+10	3.858E+10	3.861E+10	1.718E+10	1.720E+10	9.683E+09	9.694E+09	6.209E+09	6.220E+09
10	6.329E+10	6.325E+10	2.812E+10	2.814E+10	1.593E+10	1.595E+10	7.050E+09	7.058E+09	3.973E+09	3.980E+09	2.548E+09	2.554E+09
15	1.259E+10	1.258E+10	5.589E+09	5.597E+09	3.147E+09	3.151E+09	1.401E+09	1.404E+09	7.898E+08	7.918E+08	5.065E+08	5.073E+08
20	6.011E+09	6.015E+09	1.784E+09	1.786E+09	1.005E+09	1.006E+09	4.474E+08	4.485E+08	2.521E+08	2.524E+08	1.617E+08	1.620E+08
30	8.127E+08	8.130E+08	3.616E+08	3.627E+08	2.036E+08	2.040E+08	9.065E+07	9.073E+07	5.109E+07	5.137E+07	3.276E+07	3.304E+07
45	1.708E+08	1.705E+08	7.565E+07	7.553E+07	4.259E+07	4.273E+07	1.897E+07	1.916E+07	1.049E+07	1.077E+07	6.855E+06	6.870E+06
60	5.835E+07	5.824E+07	2.596E+07	2.623E+07	1.462E+07	1.478E+07	6.509E+06	6.503E+06	3.668E+06	3.630E+06	2.352E+06	2.319E+06
75	2.655E+07	2.699E+07	1.181E+07	1.186E+07	6.651E+06	6.573E+06	2.962E+06	2.887E+06	1.669E+06	1.630E+06	1.070E+06	1.055E+06
90	1.459E+07	1.438E+07	6.490E+06	6.246E+06	3.654E+06	3.518E+06	1.627E+06	1.581E+06	9.170E+05	9.103E+05	5.880E+05	5.962E+05
120	6.483E+06	6.346E+06	2.884E+06	2.951E+06	1.624E+06	1.719E+06	7.232E+05	8.016E+05	4.076E+05	4.662E+05	2.614E+05	3.058E+05
150	4.189E+06	5.181E+06	1.864E+06	2.374E+06	1.049E+06	1.363E+06	4.673E+05	6.221E+05	2.634E+05	3.560E+05	1.689E+05	2.306E+05
179	3.647E+06	4.997E+06	1.623E+06	2.262E+06	9.136E+05	1.249E+06	4.068E+05	5.824E+05	2.293E+05	3.311E+05	1.470E+05	2.134E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.298E+13	1.299E+13	6.398E+12	6.404E+12	2.871E+12	2.873E+12	1.630E+12	1.632E+12	7.377E+11	7.387E+11	4.224E+11	4.230E+11
2	8.116E+11	8.123E+11	4.000E+11	4.004E+11	1.794E+11	1.797E+11	1.019E+11	1.020E+11	4.611E+10	4.621E+10	2.640E+10	2.647E+10
3	1.604E+11	1.605E+11	7.903E+10	7.914E+10	3.546E+10	3.551E+10	2.013E+10	2.017E+10	9.111E+09	9.138E+09	5.217E+09	5.236E+09
4	5.074E+10	5.082E+10	2.501E+10	2.506E+10	1.122E+10	1.124E+10	6.372E+09	6.388E+09	2.884E+09	2.895E+09	1.651E+09	1.659E+09
6	1.004E+10	1.006E+10	4.946E+09	4.955E+09	2.219E+09	2.225E+09	1.260E+09	1.265E+09	5.702E+08	5.735E+08	3.265E+08	3.286E+08
8	3.180E+09	3.187E+09	1.567E+09	1.570E+09	7.031E+08	7.040E+08	3.992E+08	4.015E+08	1.807E+08	1.819E+08	1.034E+08	1.042E+08
10	1.308E+09	1.307E+09	6.431E+08	6.448E+08	2.865E+08	2.892E+08	1.638E+08	1.649E+08	7.414E+07	7.467E+07	4.245E+07	4.278E+07
15	2.594E+08	2.601E+08	1.278E+08	1.286E+08	5.735E+07	5.790E+07	3.256E+07	3.279E+07	1.474E+07	1.484E+07	8.439E+06	8.523E+06
20	8.281E+07	8.332E+07	4.081E+07	4.116E+07	1.831E+07	1.842E+07	1.040E+07	1.044E+07	4.705E+06	4.747E+06	2.694E+06	2.736E+06
30	1.678E+07	1.692E+07	8.269E+06	8.296E+06	3.710E+06	3.712E+06	2.106E+06	2.116E+06	9.534E+05	9.736E+05	5.459E+05	5.674E+05
45	3.511E+06	3.493E+06	1.730E+06	1.722E+06	7.763E+05	7.840E+05	4.407E+05	4.537E+05	1.995E+05	2.127E+05	1.142E+05	1.252E+05
60	1.205E+06	1.193E+06	5.937E+05	5.989E+05	2.664E+05	2.780E+05	1.512E+05	1.625E+05	6.845E+04	7.677E+04	3.919E+04	4.529E+04
75	5.482E+05	5.528E+05	2.702E+05	2.818E+05	1.212E+05	1.321E+05	6.882E+04	7.740E+04	3.115E+04	3.653E+04	1.784E+04	2.147E+04
90	3.012E+05	3.166E+05	1.484E+05	1.624E+05	6.659E+04	7.616E+04	3.781E+04	4.448E+04	1.711E+04	2.082E+04	9.798E+03	1.214E+04
120	1.339E+05	1.616E+05	6.597E+04	8.187E+04	2.960E+04	3.742E+04	1.680E+04	2.160E+04	7.605E+03	9.827E+03	5.599E+03	5.599E+03
150	8.649E+04	1.196E+05	4.263E+04	5.939E+04	1.912E+04	2.665E+04	1.086E+04	1.503E+04	4.914E+03	6.651E+03	2.814E+03	3.705E+03
179	7.531E+04	1.098E+05	3.711E+04	5.412E+04	1.665E+04	2.407E+04	9.453E+03	1.348E+04	4.279E+03	5.899E+03	2.450E+03	3.257E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	2.758E+11	2.755E+11	1.450E+11	1.454E+11	7.445E+10	7.445E+10	3.549E+10	3.562E+10	2.125E+10	2.133E+10	1.050E+10	1.055E+10
2	1.719E+10	1.724E+10	9.066E+09	9.101E+09	4.654E+09	4.676E+09	2.219E+09	2.232E+09	1.328E+09	1.338E+09	6.562E+08	6.621E+08
3	3.397E+09	3.411E+09	1.791E+09	1.801E+09	9.195E+08	9.257E+08	4.384E+08	4.423E+08	2.624E+08	2.653E+08	1.297E+08	1.314E+08
4	1.075E+09	1.081E+09	5.670E+08	5.707E+08	2.910E+08	2.935E+08	1.387E+08	1.404E+08	8.306E+07	8.426E+07	4.104E+07	4.179E+07
6	2.126E+08	2.141E+08	1.121E+08	1.131E+08	5.755E+07	5.826E+07	2.743E+07	2.793E+07	1.642E+07	1.679E+07	8.115E+06	8.347E+06
8	6.736E+07	6.791E+07	3.552E+07	3.593E+07	1.823E+07	1.854E+07	8.693E+06	8.911E+06	5.204E+06	5.367E+06	2.571E+06	2.674E+06
10	2.764E+07	2.790E+07	1.458E+07	1.479E+07	7.482E+06	7.648E+06	3.567E+06	3.685E+06	2.135E+06	2.224E+06	1.055E+06	1.110E+06
15	5.495E+06	5.575E+06	2.898E+06	2.970E+06	1.487E+06	1.546E+06	7.091E+05	7.497E+05	4.245E+05	4.542E+05	2.097E+05	2.279E+05
20	1.754E+06	1.796E+06	9.250E+05	9.628E+05	4.748E+05	5.040E+05	2.264E+05	2.458E+05	1.355E+05	1.494E+05	6.696E+04	7.519E+04
30	3.554E+05	3.754E+05	1.874E+05	2.031E+05	9.622E+04	1.072E+05	4.587E+04	5.263E+04	2.744E+04	3.210E+04	1.357E+04	1.621E+04
45	7.436E+04	8.333E+04	3.922E+04	4.537E+04	2.013E+04	2.403E+04	9.597E+03	1.181E+04	5.745E+03	7.198E+03	2.839E+03	3.629E+03
60	2.552E+04	3.014E+04	1.346E+04	1.638E+04	6.908E+03	8.675E+03	3.293E+03	4.215E+03	1.971E+03	2.554E+03	9.741E+02	1.277E+03
75	1.161E+04	1.423E+04	6.124E+03	7.674E+03	3.144E+03	4.004E+03	1.499E+03	1.928E+03	8.972E+02	1.154E+03	4.433E+02	5.695E+02
90	6.379E+03	7.991E+03	3.364E+03	4.255E+03	1.727E+03	2.187E+03	8.233E+02	1.032E+03	4.929E+02	6.096E+02	2.435E+02	2.935E+02
120	2.835E+03	3.611E+03	1.495E+03	1.857E+03	7.675E+02	9.146E+02	3.659E+02	4.075E+02	2.191E+02	2.296E+02	1.082E+02	1.027E+02
150	1.832E+03	2.343E+03	9.662E+02	1.165E+03	4.960E+02	5.484E+02	2.364E+02	2.287E+02	1.415E+02	1.214E+02	6.994E+01	4.877E+01
179	1.595E+03	2.043E+03	8.412E+02	1.001E+03	4.318E+02	4.620E+02	2.059E+02	1.867E+02	1.232E+02	9.608E+01	6.089E+01	3.622E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	6.440E+09	6.474E+09	4.431E+09	4.457E+09	2.534E+09	2.560E+09	1.402E+09	1.412E+09	7.094E+08	7.144E+08	4.333E+08	4.365E+08
2	4.026E+08	4.067E+08	2.770E+08	2.800E+08	1.584E+08	1.603E+08	8.764E+07	8.78E+07	4.435E+07	4.496E+07	2.709E+07	2.747E+07
3	7.954E+07	8.077E+07	5.473E+07	5.564E+07	3.130E+07	3.187E+07	1.732E+07	1.766E+07	8.762E+06	8.944E+06	5.352E+06	5.465E+06
4	2.518E+07	2.570E+07	1.732E+07	1.771E+07	9.906E+06	1.015E+07	5.481E+06	5.627E+06	2.773E+06	2.851E+06	1.694E+06	1.743E+06
6	4.978E+06	5.141E+06	3.425E+06	3.547E+06	1.959E+06	2.035E+06	1.084E+06	1.129E+06	5.484E+05	5.723E+05	3.349E+05	3.499E+05
8	1.577E+06	1.649E+06	1.085E+06	1.139E+06	6.206E+05	6.540E+05	3.434E+05	3.631E+05	1.738E+05	1.842E+05	1.061E+05	1.126E+05
10	6.472E+05	6.856E+05	4.453E+05	4.738E+05	2.547E+05	2.754E+05	1.409E+05	1.513E+05	7.130E+04	7.631E+04	4.355E+04	4.698E+04
15	1.2E7E+05	1.411E+05	8.853E+04	9.765E+04	5.063E+04	5.625E+04	2.801E+04	3.130E+04	1.417E+04	1.590E+04	9.657E+03	9.732E+03
20	4.107E+04	4.664E+04	2.826E+04	3.232E+04	1.616E+04	1.864E+04	8.942E+03	1.038E+04	4.525E+03	5.279E+03	2.764E+03	3.231E+03
30	8.323E+03	1.007E+04	5.726E+03	6.987E+03	3.275E+03	4.034E+03	1.812E+03	2.248E+03	9.169E+02	1.144E+03	5.600E+02	7.001E+02
45	1.741E+03	2.251E+03	1.198E+03	1.559E+03	6.852E+02	8.984E+02	3.791E+02	4.998E+02	1.918E+02	2.539E+02	1.172E+02	1.553E+02
60	5.975E+02	7.873E+02	4.111E+02	5.430E+02	2.351E+02	3.112E+02	1.301E+02	1.724E+02	6.583E+01	8.725E+01	4.221E+01	5.329E+01
75	2.719E+02	3.476E+02	1.871E+02	2.380E+02	1.070E+02	1.351E+02	5.920E+01	7.423E+01	2.996E+01	3.734E+01	1.830E+01	2.274E+01
90	1.494E+02	1.764E+02	1.028E+02	1.194E+02	5.878E+01	6.675E+01	3.252E+01	3.621E+01	1.646E+01	1.803E+01	1.005E+01	1.093E+01
120	6.639E+01	5.835E+01	4.568E+01	3.784E+01	2.612E+01	1.991E+01	1.445E+01	1.022E+01	7.314E+00	4.857E+00	4.467E+00	2.877E+00
150	4.290E+01	2.522E+01	2.952E+01	1.504E+01	1.688E+01	6.881E+00	9.340E+00	3.028E+00	4.726E+00	1.225E+00	2.887E+00	6.609E+00
179	3.735E+01	1.753E+01	2.570E+01	9.767E+00	1.470E+01	3.880E+00	8.131E+00	1.376E+00	4.115E+00	3.926E+01	2.513E+00	1.539E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	2.126E+08	2.141E+08	1.266E+08	1.275E+08	8.410E+07	8.473E+07	4.492E+07	4.525E+07	2.283E+07	2.300E+07	1.046E+07	1.054E+07
2	1.329E+07	1.348E+07	7.914E+06	8.028E+06	5.257E+06	5.333E+06	2.808E+06	2.848E+06	1.427E+06	1.448E+06	6.537E+05	6.632E+05
3	2.525E+06	2.682E+06	1.564E+06	1.598E+06	1.039E+06	1.061E+06	5.547E+05	5.669E+05	2.820E+05	2.882E+05	1.292E+05	1.320E+05
4	8.310E+05	8.553E+05	4.949E+05	5.095E+05	3.288E+05	3.3A5E+05	1.756E+05	1.808E+05	8.925E+04	9.190E+04	4.088E+04	4.210E+04
6	1.643E+05	1.718E+05	9.786E+04	1.023E+05	6.501E+04	6.799E+04	3.472E+04	3.632E+04	1.765E+04	1.846E+04	8.083E+03	8.456E+03
8	5.206E+04	5.531E+04	3.101E+04	3.296E+04	2.060E+04	2.190E+04	1.100E+04	1.170E+04	5.592E+03	5.946E+03	2.561E+03	2.724E+03
10	2.136E+04	2.308E+04	1.272E+04	1.375E+04	8.453E+03	9.136E+03	4.514E+03	4.880E+03	2.295E+03	2.481E+03	1.051E+03	1.137E+03
15	4.247E+03	4.782E+03	2.552E+03	2.850E+03	1.680E+03	1.894E+03	8.974E+02	1.012E+03	4.561E+02	5.143E+02	2.089E+02	2.356E+02
20	1.356E+03	1.588E+03	8.075E+02	9.466E+02	5.364E+02	6.200E+02	2.865E+02	3.361E+02	1.456E+02	1.709E+02	6.670E+01	7.827E+01
30	2.747E+02	3.441E+02	1.636E+02	2.051E+02	1.087E+02	1.363E+02	5.805E+01	7.283E+01	2.951E+01	3.703E+01	1.351E+01	1.696E+01
45	5.748E+01	7.631E+01	3.423E+01	4.547E+01	2.274E+01	3.022E+01	1.215E+01	1.614E+01	6.174E+00	8.206E+00	2.828E+00	3.759E+00
60	1.972E+01	2.614E+01	1.175E+01	1.557E+01	7.804E+00	1.034E+01	4.168E+00	5.523E+00	2.118E+00	2.808E+00	9.703E+00	1.286E+00
75	8.976E+00	1.113E+01	5.348E+00	6.621E+00	3.551E+00	4.366E+00	1.897E+00	2.346E+00	9.641E+01	1.192E+00	4.416E+01	5.460E+01
90	4.931E+00	5.324E+00	2.937E+00	3.162E+00	1.951E+00	2.097E+00	1.042E+00	1.119E+00	5.296E+01	5.681E+01	2.426E+01	2.601E+01
120	2.192E+00	1.373E+00	1.305E+00	8.084E-01	8.671E-01	5.338E-01	4.631E-01	2.835E-01	2.354E-01	1.437E-01	1.078E-01	6.568E-02
150	1.416E+00	2.869E-01	8.434E-01	1.617E-01	5.603E-01	1.044E-01	2.992E-01	5.419E-02	1.521E-01	2.710E-02	6.967E-02	1.230E-02
179	1.233E+00	3.870E-02	7.343E-01	1.402E-02	4.878E-01	6.271E-03	2.605E-01	1.827E-03	1.324E-01	4.874E-04	6.065E-02	1.092E-04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	5.975E+06	6.020E+06	2.698E+06	2.719E+06	1.530E+06	1.542E+06	9.842E+05	9.916E+05	5.050E+05	5.088E+05	2.485E+05	2.504E+05
2	3.735E+05	3.789E+05	1.687E+05	1.711E+05	9.565E+04	9.705E+04	6.152E+04	6.242E+04	3.157E+04	3.203E+04	1.553E+04	1.576E+04
3	7.379E+04	7.541E+04	3.733E+04	3.806E+04	1.890E+04	1.931E+04	1.216E+04	1.242E+04	6.237E+03	6.374E+03	3.069E+03	3.137E+03
4	2.336E+04	2.405E+04	1.055E+04	1.086E+04	5.982E+03	6.140E+03	3.847E+03	3.962E+03	1.974E+03	2.033E+03	9.715E+02	1.000E+03
6	4.618E+03	4.832E+03	2.086E+03	2.182E+03	1.183E+03	1.237E+03	7.608E+02	7.959E+02	3.904E+02	4.084E+02	1.921E+02	2.010E+02
8	1.463E+03	1.556E+03	6.609E+02	7.028E+02	3.748E+02	3.986E+02	2.411E+02	2.564E+02	1.237E+02	1.315E+02	6.087E+01	6.473E+01
10	6.005E+02	6.494E+02	2.712E+02	2.933E+02	1.538E+02	1.683E+02	9.891E+01	1.070E+02	5.075E+01	5.489E+01	2.498E+01	2.701E+01
15	1.194E+02	1.346E+02	5.391E+01	6.079E+01	3.057E+01	3.448E+01	1.966E+01	2.217E+01	1.009E+01	1.138E+01	4.965E+00	5.599E+00
20	3.811E+01	4.472E+01	1.721E+01	2.020E+01	9.760E+00	1.145E+01	6.277E+00	7.367E+00	3.221E+00	3.780E+00	1.585E+00	1.860E+00
30	7.722E+00	9.692E+00	3.487E+00	4.377E+00	1.978E+00	2.482E+00	1.272E+00	1.597E+00	6.526E+01	8.192E+01	3.212E+01	4.031E+01
45	1.616E+00	2.148E+00	7.296E-01	9.700E-01	4.138E-01	5.501E-01	2.661E-01	3.538E-01	1.366E-01	1.815E-01	6.720E-02	8.934E-02
60	5.544E-01	7.347E-01	2.504E-01	3.318E-01	1.420E-01	1.882E-01	9.132E-02	1.210E-01	4.686E-02	6.210E-02	2.306E-02	3.056E-02
75	2.523E-01	3.120E-01	1.139E-01	1.409E-01	6.441E-02	7.989E-02	4.156E-02	5.138E-02	2.132E-02	2.637E-02	1.049E-02	1.297E-02
90	1.386E-01	1.486E-01	6.259E-02	6.710E-02	3.550E-02	3.905E-02	2.283E-02	2.447E-02	1.171E-02	1.256E-02	5.765E-03	6.179E-03
120	6.160E-02	3.750E-02	2.782E-02	1.693E-02	1.578E-02	9.598E-03	1.015E-02	6.172E-03	5.206E-03	3.167E-03	2.562E-03	1.558E-03
150	3.980E-02	7.001E-03	1.798E-02	3.154E-03	1.019E-02	1.787E-03	6.556E-03	1.149E-03	3.364E-03	5.893E-04	1.656E-03	2.899E-04
179	3.465E-02	3.870E-05	1.565E-02	9.646E-06	8.875E-03	3.885E-06	5.706E-03	2.022E-06	2.929E-03	8.230E-07	1.441E-03	3.484E-07

XE (54)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	6.528E+14	6.532E+14	2.904E+14	2.906E+14	1.635E+14	1.636E+14	7.282E+13	7.286E+13	4.104E+13	4.106E+13	2.632E+13	2.633E+13
2	4.081E+13	4.083E+13	1.815E+13	1.817E+13	1.022E+13	1.023E+13	4.552E+12	4.555E+12	2.565E+12	2.567E+12	1.645E+12	1.646E+12
3	8.063E+12	8.068E+12	3.587E+12	3.589E+12	2.020E+12	2.021E+12	8.993E+11	9.001E+11	5.069E+11	5.073E+11	3.250E+11	3.253E+11
4	2.552E+12	2.554E+12	1.135E+12	1.136E+12	6.392E+11	6.397E+11	2.847E+11	2.849E+11	1.604E+11	1.606E+11	1.079E+11	1.080E+11
6	5.046E+11	5.050E+11	2.245E+11	2.247E+11	1.264E+11	1.265E+11	5.629E+10	5.634E+10	3.172E+10	3.176E+10	2.034E+10	2.037E+10
8	1.599E+11	1.600E+11	7.113E+10	7.119E+10	4.005E+10	4.008E+10	1.783E+10	1.786E+10	1.005E+10	1.006E+10	6.445E+09	6.456E+09
10	6.561E+10	6.566E+10	2.919E+10	2.922E+10	1.643E+10	1.645E+10	7.318E+09	7.327E+09	4.125E+09	4.131E+09	2.645E+09	2.651E+09
15	1.304E+10	1.306E+10	5.802E+09	5.810E+09	3.267E+09	3.271E+09	1.455E+09	1.458E+09	8.199E+08	8.221E+08	5.258E+08	5.267E+08
20	4.164E+09	4.167E+09	1.852E+09	1.854E+09	1.043E+09	1.044E+09	4.644E+08	4.657E+08	2.617E+08	2.621E+08	1.678E+08	1.681E+08
30	8.437E+08	8.441E+08	3.753E+08	3.764E+08	2.113E+08	2.118E+08	9.411E+07	9.416E+07	5.304E+07	5.329E+07	3.401E+07	3.430E+07
45	1.765E+08	1.771E+08	7.853E+07	7.839E+07	4.422E+07	4.432E+07	1.969E+07	1.989E+07	1.110E+07	1.119E+07	7.116E+06	7.141E+06
60	6.057E+07	6.039E+07	2.095E+07	2.721E+07	1.517E+07	1.536E+07	6.756E+06	6.761E+06	3.808E+06	3.771E+06	2.442E+06	2.407E+06
75	2.757E+07	2.804E+07	1.226E+07	1.234E+07	6.905E+06	6.836E+06	3.075E+06	2.996E+06	1.733E+06	1.689E+06	1.111E+06	1.092E+06
90	1.514E+07	1.497E+07	6.737E+06	6.485E+06	3.793E+06	3.628E+06	1.689E+06	1.635E+06	9.520E+05	9.410E+05	6.104E+05	6.164E+05
120	6.730E+06	6.552E+06	2.994E+06	3.050E+06	1.686E+06	1.778E+06	7.507E+05	8.312E+05	4.231E+05	4.841E+05	2.713E+05	3.179E+05
150	4.349E+06	5.403E+06	1.935E+06	2.479E+06	1.389E+06	1.624E+06	4.851E+05	6.510E+05	2.734E+05	3.729E+05	1.753E+05	2.417E+05
179	3.786E+06	5.237E+06	1.584E+06	2.373E+06	9.484E+05	1.353E+06	4.223E+05	6.117E+05	2.380E+05	3.479E+05	1.526E+05	2.244E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.348E+13	1.349E+13	6.642E+12	6.648E+12	2.980E+12	2.983E+12	1.692E+12	1.694E+12	7.658E+11	7.668E+11	4.385E+11	4.391E+11
2	8.425E+11	8.433E+11	4.152E+11	4.156E+11	1.863E+11	1.865E+11	1.058E+11	1.059E+11	4.787E+10	4.797E+10	2.741E+10	2.748E+10
3	1.665E+11	1.666E+11	8.204E+10	8.215E+10	3.681E+10	3.687E+10	2.090E+10	2.094E+10	9.458E+09	9.486E+09	5.415E+09	5.436E+09
4	5.268E+10	5.275E+10	2.597E+10	2.601E+10	1.165E+10	1.167E+10	6.614E+09	6.631E+09	2.994E+09	3.006E+09	1.714E+09	1.722E+09
6	1.042E+10	1.044E+10	5.134E+09	5.145E+09	2.304E+09	2.310E+09	1.308E+09	1.313E+09	5.920E+08	5.953E+08	3.389E+08	3.411E+08
8	3.301E+09	3.308E+09	1.627E+09	1.630E+09	7.259E+08	7.328E+08	4.144E+08	4.168E+08	1.876E+08	1.889E+08	1.071E+08	1.082E+08
10	1.355E+09	1.357E+09	6.676E+08	6.693E+08	2.995E+08	3.012E+08	1.700E+08	1.712E+08	7.697E+07	7.753E+07	4.407E+07	4.442E+07
15	2.693E+08	2.699E+08	1.327E+08	1.335E+08	5.954E+07	6.002E+07	3.380E+07	3.405E+07	1.530E+07	1.541E+07	8.760E+06	8.844E+06
20	9.596E+07	8.646E+07	4.236E+07	4.274E+07	1.901E+07	1.914E+07	1.079E+07	1.085E+07	4.884E+06	4.921E+06	2.797E+06	2.837E+06
30	1.742E+07	1.758E+07	8.584E+06	8.619E+06	3.851E+06	3.862E+06	2.187E+06	2.195E+06	9.897E+05	1.009E+06	5.667E+05	5.879E+05
45	3.645E+06	3.628E+06	1.796E+06	1.786E+06	8.058E+05	8.121E+05	4.575E+05	4.699E+05	2.071E+05	2.204E+05	1.186E+05	1.298E+05
60	1.251E+06	1.237E+06	6.163E+05	6.201E+05	2.765E+05	2.878E+05	1.570E+05	1.633E+05	7.106E+04	7.966E+04	4.068E+04	4.706E+04
75	5.691E+05	5.719E+05	2.805E+05	2.916E+05	1.258E+05	1.369E+05	7.144E+04	8.033E+04	3.234E+04	3.799E+04	1.851E+04	2.237E+04
90	3.126E+05	3.276E+05	1.541E+05	1.684E+05	6.913E+04	7.910E+04	3.925E+04	4.627E+04	1.776E+04	2.171E+04	1.017E+04	1.268E+04
120	1.390E+05	1.683E+05	6.848E+04	8.542E+04	3.072E+04	3.913E+04	1.744E+04	2.261E+04	7.895E+03	1.030E+04	4.520E+03	5.877E+03
150	8.979E+04	1.295E+05	4.425E+04	6.237E+04	1.985E+04	2.802E+04	1.127E+04	1.581E+04	5.102E+03	7.005E+03	2.921E+03	3.905E+03
179	7.817E+04	1.156E+05	3.853E+04	5.699E+04	1.728E+04	2.536E+04	9.814E+03	1.421E+04	4.442E+03	6.224E+03	2.543E+03	3.438E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	2.955E+11	2.860E+11	1.506E+11	1.509E+11	7.729E+10	7.760E+10	3.684E+10	3.698E+10	2.206E+10	2.214E+10	1.090E+10	1.095E+10
2	1.785E+10	1.790E+10	9.411E+09	9.448E+09	4.831E+09	4.865E+09	2.303E+09	2.317E+09	1.379E+09	1.389E+09	6.812E+08	6.874E+08
3	3.526E+09	3.542E+09	1.860E+09	1.870E+09	9.545E+08	9.609E+08	4.550E+08	4.591E+08	2.724E+08	2.754E+08	1.346E+08	1.364E+08
4	1.116E+09	1.122E+09	5.888E+08	5.925E+08	3.021E+08	3.047E+08	1.440E+08	1.457E+08	8.622E+07	8.746E+07	4.260E+07	4.338E+07
6	2.207E+08	2.222E+08	1.164E+08	1.174E+08	5.974E+07	6.047E+07	2.848E+07	2.898E+07	1.705E+07	1.743E+07	8.424E+06	8.664E+06
8	6.992E+07	7.050E+07	3.688E+07	3.729E+07	1.893E+07	1.924E+07	9.024E+06	9.247E+06	5.402E+06	5.570E+06	2.669E+06	2.776E+06
10	2.869E+07	2.896E+07	1.513E+07	1.534E+07	7.767E+06	7.936E+06	3.703E+06	3.824E+06	2.417E+06	2.508E+06	1.095E+06	1.152E+06
15	5.704E+06	5.784E+06	3.008E+06	3.081E+06	1.544E+06	1.603E+06	7.361E+05	7.779E+05	4.407E+05	4.714E+05	2.177E+05	2.366E+05
20	1.821E+06	1.863E+06	9.603E+05	9.983E+05	4.929E+05	5.227E+05	2.350E+05	2.550E+05	1.407E+05	1.551E+05	6.951E+04	7.812E+04
30	3.690E+05	3.890E+05	1.946E+05	2.107E+05	9.988E+04	1.113E+05	4.762E+04	5.469E+04	2.850E+04	3.338E+04	1.408E+04	1.688E+04
45	7.720E+04	8.647E+04	4.071E+04	4.715E+04	2.090E+04	2.500E+04	9.963E+03	1.231E+04	5.964E+03	7.510E+03	2.947E+03	3.791E+03
60	2.649E+04	3.136E+04	1.397E+04	1.707E+04	7.171E+03	9.013E+03	3.419E+03	4.407E+03	2.047E+03	2.674E+03	1.011E+03	1.338E+03
75	1.206E+04	1.484E+04	6.358E+03	8.017E+03	3.263E+03	4.191E+03	1.556E+03	2.022E+03	8.314E+02	1.214E+03	4.602E+02	5.987E+02
90	6.623E+03	8.356E+03	3.493E+03	4.457E+03	1.793E+03	2.294E+03	8.547E+02	1.085E+03	5.116E+02	6.414E+02	2.528E+02	3.093E+02
120	2.943E+03	3.793E+03	1.552E+03	1.954E+03	7.968E+02	9.630E+02	3.798E+02	4.296E+02	2.274E+02	2.422E+02	1.124E+02	1.085E+02
150	1.902E+03	2.471E+03	1.003E+03	1.229E+03	5.149E+02	5.788E+02	2.454E+02	2.415E+02	1.469E+02	1.282E+02	7.260E+01	5.155E+01
179	1.656E+03	2.158E+03	8.733E+02	1.057E+03	4.483E+02	4.881E+02	2.137E+02	1.973E+02	1.279E+02	1.015E+02	6.321E+01	3.827E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DE0	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-00MEV		1.5E-00MEV		2.0E-00MEV	
1	6.685E+09	6.722E+09	4.600E+09	4.626E+09	2.630E+09	2.647E+09	1.455E+09	1.465E+09	7.365E+08	7.418E+08	4.498E+08	4.530E+08
2	4.179E+08	4.222E+08	2.875E+08	2.907E+08	1.644E+08	1.664E+08	9.097E+07	9.216E+07	4.667E+07	4.667E+07	2.812E+07	2.851E+07
3	8.257E+07	8.386E+07	5.681E+07	5.776E+07	3.249E+07	3.309E+07	1.797E+07	1.833E+07	9.096E+06	9.285E+06	5.556E+06	5.674E+06
4	2.513E+07	2.668E+07	1.798E+07	1.839E+07	1.028E+07	1.064E+07	5.689E+06	5.841E+06	2.879E+06	2.960E+06	1.758E+06	1.809E+06
6	5.168E+06	5.336E+06	3.556E+06	3.681E+06	2.033E+06	2.112E+06	1.125E+06	1.172E+06	5.693E+05	5.942E+05	3.477E+05	3.633E+05
8	1.637E+06	1.712E+06	1.127E+05	1.182E+06	6.443E+05	6.780E+05	3.565E+05	3.770E+05	1.804E+05	1.913E+05	1.107E+05	1.170E+05
10	6.719E+05	7.117E+05	4.623E+05	4.919E+05	2.644E+05	2.858E+05	1.463E+05	1.572E+05	7.402E+04	7.978E+04	4.521E+04	4.880E+04
15	1.336E+05	1.465E+05	9.190E+04	1.014E+05	5.255E+04	5.845E+04	2.908E+04	3.252E+04	1.471E+04	1.653E+04	8.987E+03	1.012E+04
20	4.264E+04	4.847E+04	2.934E+04	3.360E+04	1.678E+04	1.979E+04	9.282E+03	1.080E+04	4.697E+03	5.493E+03	2.869E+03	3.362E+03
30	8.840E+03	1.049E+04	5.945E+03	7.280E+03	3.399E+03	4.205E+03	1.881E+03	2.344E+03	9.518E+02	1.193E+03	5.813E+02	7.303E+02
45	1.808E+03	2.353E+03	1.244E+03	1.631E+03	7.113E+02	9.402E+02	3.935E+02	5.233E+02	1.991E+02	2.659E+02	1.216E+02	1.627E+02
60	6.203E+02	8.259E+02	4.268E+02	5.700E+02	2.441E+02	3.269E+02	1.350E+02	1.811E+02	6.833E+01	9.172E+01	4.174E+01	5.604E+01
75	2.023E+02	3.657E+02	1.942E+02	2.506E+02	1.111E+02	1.454E+02	6.145E+01	7.826E+01	3.110E+01	3.939E+01	1.899E+01	2.399E+01
90	1.551E+02	1.860E+02	1.067E+02	1.260E+02	3.067E+01	7.005E+01	3.576E+01	3.827E+01	1.708E+01	1.907E+01	1.043E+01	1.156E+01
120	6.892E+01	6.170E+01	4.742E+01	4.005E+01	2.712E+01	2.199E+01	1.500E+01	1.084E+01	7.553E+00	5.156E+00	4.638E+00	3.055E+00
150	4.454E+01	2.667E+01	3.064E+01	1.591E+01	1.752E+01	7.286E+00	9.695E+00	3.210E+00	4.906E+00	1.300E+00	2.997E+00	7.023E+00
179	3.878E+01	1.852E+01	2.668E+01	1.032E+01	1.526E+01	4.099E+00	8.441E+00	1.575E+00	4.272E+00	4.147E+00	2.609E+00	1.625E+00
DE0	3.0E-00MEV		4.0E-00MEV		5.0E-00MEV		7.0E-00MEV		1.0E-01MEV		1.5E-01MEV	
1	2.207E+08	2.223E+08	1.314E+08	1.324E+08	8.731E+07	8.744E+07	4.663E+07	4.697E+07	2.370E+07	2.388E+07	1.086E+07	1.094E+07
2	1.379E+07	1.399E+07	8.215E+06	8.333E+06	5.457E+06	5.536E+06	2.915E+06	2.957E+06	1.482E+06	1.503E+06	6.786E+05	6.884E+05
3	2.728E+06	2.784E+06	1.623E+06	1.659E+06	1.078E+06	1.102E+06	5.759E+05	5.885E+05	2.927E+05	2.992E+05	1.341E+05	1.370E+05
4	8.624E+05	8.879E+05	5.138E+05	5.289E+05	3.413E+05	3.514E+05	1.823E+05	1.877E+05	9.265E+04	9.541E+04	4.244E+04	4.370E+04
6	1.706E+05	1.783E+05	1.016E+05	1.062E+05	6.748E+04	7.059E+04	3.604E+04	3.771E+04	1.832E+04	1.917E+04	8.391E+03	8.780E+03
8	5.405E+04	5.744E+04	3.219E+04	3.422E+04	2.138E+04	2.274E+04	1.142E+04	1.215E+04	5.805E+03	6.175E+03	2.659E+03	2.829E+03
10	2.216E+04	2.397E+04	1.321E+04	1.428E+04	8.775E+03	9.400E+03	4.686E+03	5.069E+03	2.382E+03	2.577E+03	1.091E+03	1.180E+03
15	4.489E+03	4.970E+03	2.626E+03	2.962E+03	1.744E+03	1.968E+03	9.316E+02	1.052E+03	4.735E+02	5.346E+02	2.169E+02	2.449E+02
20	1.407E+03	1.653E+03	8.382E+02	9.850E+02	5.568E+02	6.546E+02	2.974E+02	3.497E+02	1.512E+02	1.778E+02	6.924E+01	8.145E+01
30	2.852E+02	3.590E+02	1.688E+02	2.140E+02	1.128E+02	1.422E+02	6.026E+01	7.588E+01	3.063E+01	3.863E+01	1.403E+01	1.770E+01
45	5.967E+01	7.994E+01	3.554E+01	4.764E+01	2.361E+01	3.146E+01	1.261E+01	1.691E+01	6.409E+00	8.598E+00	2.935E+00	3.938E+00
60	2.047E+01	2.749E+01	1.219E+01	1.637E+01	8.101E+00	1.088E+01	4.326E+00	5.809E+00	2.199E+00	2.953E+00	1.007E+00	1.353E+00
75	9.318E+00	1.174E+01	5.549E+00	6.986E+00	3.687E+00	4.639E+00	1.969E+00	2.476E+00	1.001E+00	1.258E+00	4.584E+00	5.763E+00
90	5.119E+00	5.633E+00	3.049E+00	3.346E+00	2.025E+00	2.219E+00	1.082E+00	1.184E+00	5.498E+00	6.013E+00	2.518E+00	2.753E+00
120	2.275E+00	1.459E+00	1.353E+00	8.589E+00	9.001E+00	5.672E+00	4.807E+00	3.013E+00	2.443E+00	1.527E+00	1.119E+00	6.980E+00
150	1.470E+00	3.052E+00	8.755E+00	1.721E+01	5.816E+01	1.111E+01	3.106E+01	5.771E+02	1.579E+01	2.884E+02	7.232E+02	1.310E+02
179	1.280E+00	4.087E+02	7.623E+01	1.481E+02	5.064E+01	6.654E+03	2.704E+01	1.930E+03	1.375E+01	5.150E+04	6.296E+02	1.154E+04
DE0	2.0E-01MEV		3.0E-01MEV		4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-02MEV	
1	6.202E+06	6.249E+06	2.801E+06	2.822E+06	1.589E+06	1.601E+06	1.022E+06	1.049E+06	5.242E+05	5.282E+05	2.580E+05	2.599E+05
2	3.877E+05	3.933E+05	1.751E+05	1.776E+05	9.930E+04	1.007E+05	6.386E+04	6.479E+04	3.277E+04	3.324E+04	1.613E+04	1.636E+04
3	7.868E+04	7.829E+04	3.460E+04	3.536E+04	1.962E+04	2.005E+04	1.262E+04	1.290E+04	6.475E+03	6.617E+03	3.186E+03	3.256E+03
4	2.425E+04	2.497E+04	1.095E+04	1.128E+04	6.210E+03	6.365E+03	3.994E+03	4.113E+03	2.049E+03	2.111E+03	1.009E+03	1.039E+03
6	4.794E+03	5.017E+03	2.165E+03	2.266E+03	1.228E+03	1.285E+03	7.897E+02	8.264E+02	4.052E+02	4.240E+02	1.964E+02	2.087E+02
8	1.519E+03	1.616E+03	6.861E+02	7.299E+02	3.891E+02	4.139E+02	2.502E+02	2.662E+02	1.284E+02	1.366E+02	6.319E+01	6.722E+01
10	6.234E+02	6.745E+02	2.815E+02	3.046E+02	1.597E+02	1.757E+02	1.027E+02	1.111E+02	5.269E+01	5.701E+01	2.593E+01	2.806E+01
15	1.239E+02	1.399E+02	5.596E+01	6.320E+01	3.174E+01	3.584E+01	2.041E+01	2.305E+01	1.047E+01	1.183E+01	5.154E+00	5.821E+00
20	3.956E+01	4.654E+01	1.787E+01	2.102E+01	1.013E+01	1.142E+01	6.516E+00	7.666E+00	3.344E+00	3.934E+00	1.645E+00	1.936E+00
30	8.016E+00	1.011E+01	3.620E+00	4.567E+00	2.053E+00	2.590E+00	1.320E+00	1.666E+00	6.775E+00	8.547E+00	3.334E+00	4.266E+00
45	1.677E+00	2.250E+00	7.574E+00	1.018E+00	4.295E+00	5.743E+00	2.763E+00	3.707E+00	1.418E+00	1.902E+00	6.976E+00	9.360E+00
60	5.755E+01	7.728E+01	2.599E+01	3.490E+01	1.474E+01	1.979E+01	9.480E+00	1.273E+01	4.864E+00	6.532E+00	2.394E+00	3.214E+00
75	2.619E+01	3.292E+01	1.183E+01	1.487E+01	6.708E+00	8.411E+00	4.314E+00	5.423E+00	2.214E+00	2.783E+00	1.089E+00	1.369E+00
90	1.439E+01	1.573E+01	6.498E+00	7.101E+00	3.685E+00	4.027E+00	2.370E+00	2.590E+00	1.216E+00	1.329E+00	5.984E+00	6.540E+00
120	6.395E+02	3.985E+02	2.888E+02	1.799E+02	1.638E+02	1.020E+02	1.053E+02	6.560E+02	5.405E+03	3.366E+03	2.660E+03	1.656E+03
150	4.132E+02	7.458E+03	1.866E+02	3.360E+03	1.058E+02	1.904E+03	6.806E+03	1.224E+03	3.492E+03	6.277E+04	1.719E+03	3.089E+04
179	3.597E+02	4.094E+05	1.625E+02	1.022E+05	9.213E+03	4.121E+06	5.926E+03	2.147E+06	3.041E+03	8.751E+07	1.496E+03	3.709E+07

	RUTH		MOTT		RUTH		MOTT		RUTH		MOTT		RUTH		MOTT		RUTH		MOTT		RUTH		MOTT	
DEG	1.0E-03MEV				1.5E-03MEV				2.0E-03MEV				3.0E-03MEV				4.0E-03MEV				5.0E-03MEV			
1	6.772E+14	6.776E+14	3.013E+14	3.015E+14	1.696E+14	1.697E+14	7.554E+13	7.559E+13	4.257E+13	4.260F+13	2.730F+13	2.732E+13	2.661E+12	2.663F+12	1.706E+12	1.708E+12	1.664E+11	1.666E+11	3.291E+10	3.295E+10	1.043E+10	1.044E+10	4.279E+09	4.285E+09
2	4.233E+13	4.236E+13	1.883E+13	1.884E+13	1.060E+13	1.061E+13	4.722E+12	4.725E+12	2.661E+12	2.663F+12	1.706E+12	1.708E+12	1.664E+11	1.666E+11	3.291E+10	3.295E+10	1.043E+10	1.044E+10	4.279E+09	4.285E+09	8.506E+08	8.530E+08	2.715E+08	2.719E+08
3	8.364E+12	8.369E+12	3.721E+12	3.723E+12	2.095E+12	2.097E+12	9.330E+11	9.337E+11	5.258E+11	5.262F+11	3.072E+11	3.075E+11	1.664E+11	1.666E+11	3.291E+10	3.295E+10	1.043E+10	1.044E+10	4.279E+09	4.285E+09	8.506E+08	8.530E+08	2.715E+08	2.719E+08
4	2.647E+12	2.649E+12	1.178E+12	1.179E+12	6.631E+11	6.636E+11	2.953E+11	2.956E+11	1.664E+11	1.666E+11	3.291E+10	3.295E+10	1.043E+10	1.044E+10	4.279E+09	4.285E+09	8.506E+08	8.530E+08	2.715E+08	2.719E+08	5.507E+07	5.525E+07	1.151E+07	1.162E+07
5	5.235E+11	5.239E+11	2.329E+11	2.331E+11	1.311E+11	1.312E+11	5.839E+10	5.845E+10	1.664E+11	1.666E+11	3.291E+10	3.295E+10	1.043E+10	1.044E+10	4.279E+09	4.285E+09	8.506E+08	8.530E+08	2.715E+08	2.719E+08	5.507E+07	5.525E+07	1.151E+07	1.162E+07
6	1.659E+11	1.660E+11	7.379E+10	7.385E+10	4.155E+10	4.158E+10	1.850E+10	1.853E+10	1.664E+11	1.666E+11	3.291E+10	3.295E+10	1.043E+10	1.044E+10	4.279E+09	4.285E+09	8.506E+08	8.530E+08	2.715E+08	2.719E+08	5.507E+07	5.525E+07	1.151E+07	1.162E+07
7	6.808E+10	6.812E+10	3.028E+10	3.031E+10	1.705E+10	1.707E+10	7.592E+09	7.602E+09	1.664E+11	1.666E+11	3.291E+10	3.295E+10	1.043E+10	1.044E+10	4.279E+09	4.285E+09	8.506E+08	8.530E+08	2.715E+08	2.719E+08	5.507E+07	5.525E+07	1.151E+07	1.162E+07
8	1.353E+10	1.355E+10	6.019E+09	6.026E+09	3.389E+09	3.394E+09	1.509E+09	1.512E+09	1.664E+11	1.666E+11	3.291E+10	3.295E+10	1.043E+10	1.044E+10	4.279E+09	4.285E+09	8.506E+08	8.530E+08	2.715E+08	2.719E+08	5.507E+07	5.525E+07	1.151E+07	1.162E+07
9	4.319E+09	4.322E+09	1.922E+09	1.924E+09	1.082E+09	1.083E+09	4.818E+08	4.833E+08	1.664E+11	1.666E+11	3.291E+10	3.295E+10	1.043E+10	1.044E+10	4.279E+09	4.285E+09	8.506E+08	8.530E+08	2.715E+08	2.719E+08	5.507E+07	5.525E+07	1.151E+07	1.162E+07
10	8.752E+08	8.758E+08	3.894E+08	3.904E+08	2.192E+08	2.198E+08	9.762E+07	9.765E+07	1.664E+11	1.666E+11	3.291E+10	3.295E+10	1.043E+10	1.044E+10	4.279E+09	4.285E+09	8.506E+08	8.530E+08	2.715E+08	2.719E+08	5.507E+07	5.525E+07	1.151E+07	1.162E+07
11	1.831E+08	1.838E+08	8.147E+07	8.132E+07	4.587E+07	4.593E+07	2.043E+07	2.064E+07	1.664E+11	1.666E+11	3.291E+10	3.295E+10	1.043E+10	1.044E+10	4.279E+09	4.285E+09	8.506E+08	8.530E+08	2.715E+08	2.719E+08	5.507E+07	5.525E+07	1.151E+07	1.162E+07
12	6.284E+07	6.258E+07	2.795E+07	2.821E+07	1.574E+07	1.594E+07	7.009E+06	7.026E+06	1.664E+11	1.666E+11	3.291E+10	3.295E+10	1.043E+10	1.044E+10	4.279E+09	4.285E+09	8.506E+08	8.530E+08	2.715E+08	2.719E+08	5.507E+07	5.525E+07	1.151E+07	1.162E+07
13	2.860E+07	2.910E+07	1.272E+07	1.283E+07	7.163E+06	7.107E+06	3.190E+06	3.108E+06	1.664E+11	1.666E+11	3.291E+10	3.295E+10	1.043E+10	1.044E+10	4.279E+09	4.285E+09	8.506E+08	8.530E+08	2.715E+08	2.719E+08	5.507E+07	5.525E+07	1.151E+07	1.162E+07
14	1.571E+07	1.557E+07	6.989E+06	6.731E+06	3.935E+06	3.747E+06	1.752E+06	1.690E+06	1.664E+11	1.666E+11	3.291E+10	3.295E+10	1.043E+10	1.044E+10	4.279E+09	4.285E+09	8.506E+08	8.530E+08	2.715E+08	2.719E+08	5.507E+07	5.525E+07	1.151E+07	1.162E+07
15	6.982E+06	6.757E+06	3.106E+06	3.149E+06	1.749E+06	1.838E+06	7.788E+05	8.610E+05	1.664E+11	1.666E+11	3.291E+10	3.295E+10	1.043E+10	1.044E+10	4.279E+09	4.285E+09	8.506E+08	8.530E+08	2.715E+08	2.719E+08	5.507E+07	5.525E+07	1.151E+07	1.162E+07
16	4.511E+06	5.630E+06	2.007E+06	2.587E+06	1.130E+06	1.488E+06	5.032E+05	6.808E+05	1.664E+11	1.666E+11	3.291E+10	3.295E+10	1.043E+10	1.044E+10	4.279E+09	4.285E+09	8.506E+08	8.530E+08	2.715E+08	2.719E+08	5.507E+07	5.525E+07	1.151E+07	1.162E+07
17	3.928E+06	5.486E+06	1.747E+06	2.488E+06	9.839E+05	1.419E+06	4.381E+05	6.421E+05	1.664E+11	1.666E+11	3.291E+10	3.295E+10	1.043E+10	1.044E+10	4.279E+09	4.285E+09	8.506E+08	8.530E+08	2.715E+08	2.719E+08	5.507E+07	5.525E+07	1.151E+07	1.162E+07
DEG	7.0E-03MEV				1.0E-02MEV				1.5E-02MEV				2.0E-02MEV				3.0E-02MEV				4.0E-02MEV			
1	1.398E+13	1.399E+13	6.891E+12	6.896E+12	3.091E+12	3.094E+12	1.755E+12	1.757E+12	7.944E+11	7.954E+11	4.549E+11	4.555E+11	4.966E+10	4.976E+10	2.843E+10	2.851E+10	9.812E+09	9.840E+09	3.106E+09	3.118E+09	6.141E+08	6.176E+08	1.946E+08	1.949E+08
2	8.740E+11	8.748E+11	4.307E+11	4.312E+11	1.932E+11	1.935E+11	1.097E+11	1.099E+11	4.966E+10	4.976E+10	2.843E+10	2.851E+10	9.812E+09	9.840E+09	3.106E+09	3.118E+09	6.141E+08	6.176E+08	1.946E+08	1.949E+08	1.114E+08	1.122E+08	4.571E+07	4.608E+07
3	1.727E+11	1.729E+11	8.510E+10	8.522E+10	3.818E+10	3.825E+10	2.168E+10	2.172E+10	4.966E+10	4.976E+10	2.843E+10	2.851E+10	9.812E+09	9.840E+09	3.106E+09	3.118E+09	6.141E+08	6.176E+08	1.946E+08	1.949E+08	1.114E+08	1.122E+08	4.571E+07	4.608E+07
4	5.466E+10	5.472E+10	2.694E+10	2.698E+10	1.209E+10	1.211E+10	6.862E+09	6.878E+09	4.966E+10	4.976E+10	2.843E+10	2.851E+10	9.812E+09	9.840E+09	3.106E+09	3.118E+09	6.141E+08	6.176E+08	1.946E+08	1.949E+08	1.114E+08	1.122E+08	4.571E+07	4.608E+07
5	1.081E+10	1.083E+10	5.326E+09	5.337E+09	2.390E+09	2.396E+09	1.357E+09	1.362E+09	4.966E+10	4.976E+10	2.843E+10	2.851E+10	9.812E+09	9.840E+09	3.106E+09	3.118E+09	6.141E+08	6.176E+08	1.946E+08	1.949E+08	1.114E+08	1.122E+08	4.571E+07	4.608E+07
6	3.424E+09	3.432E+09	1.688E+09	1.691E+09	7.572E+08	7.601E+08	4.299E+08	4.323E+08	4.966E+10	4.976E+10	2.843E+10	2.851E+10	9.812E+09	9.840E+09	3.106E+09	3.118E+09	6.141E+08	6.176E+08	1.946E+08	1.949E+08	1.114E+08	1.122E+08	4.571E+07	4.608E+07
7	1.405E+09	1.408E+09	6.925E+08	6.942E+08	3.107E+08	3.124E+08	1.764E+08	1.777E+08	4.966E+10	4.976E+10	2.843E+10	2.851E+10	9.812E+09	9.840E+09	3.106E+09	3.118E+09	6.141E+08	6.176E+08	1.946E+08	1.949E+08	1.114E+08	1.122E+08	4.571E+07	4.608E+07
8	2.793E+08	2.800E+08	1.377E+08	1.385E+08	6.177E+07	6.229E+07	3.507E+07	3.534E+07	4.966E+10	4.976E+10	2.843E+10	2.851E+10	9.812E+09	9.840E+09	3.106E+09	3.118E+09	6.141E+08	6.176E+08	1.946E+08	1.949E+08	1.114E+08	1.122E+08	4.571E+07	4.608E+07
9	8.918E+07	8.966E+07	4.395E+07	4.435E+07	1.972E+07	1.987E+07	1.119E+07	1.125E+07	4.966E+10	4.976E+10	2.843E+10	2.851E+10	9.812E+09	9.840E+09	3.106E+09	3.118E+09	6.141E+08	6.176E+08	1.946E+08	1.949E+08	1.114E+08	1.122E+08	4.571E+07	4.608E+07
10	1.807E+07	1.825E+07	8.805E+06	8.949E+06	3.955E+06	3.996E+06	2.268E+06	2.275E+06	4.966E+10	4.976E+10	2.843E+10	2.851E+10	9.812E+09	9.840E+09	3.106E+09	3.118E+09	6.141E+08	6.176E+08	1.946E+08	1.949E+08	1.114E+08	1.122E+08	4.571E+07	4.608E+07
11	3.781E+06	3.766E+06	1.863E+06	1.851E+06	8.395E+05	8.407E+05	4.746E+05	4.862E+05	4.966E+10	4.976E+10	2.843E+10	2.851E+10	9.812E+09	9.840E+09	3.106E+09	3.118E+09	6.141E+08	6.176E+08	1.946E+08	1.949E+08	1.114E+08	1.122E+08	4.571E+07	4.608E+07
12	1.297E+06	1.281E+06	6.393E+05	6.415E+05	2.868E+05	2.977E+05	1.629E+05	1.742E+05	4.966E+10	4.976E+10	2.843E+10	2.851E+10	9.812E+09	9.840E+09	3.106E+09	3.118E+09	6.141E+08	6.176E+08	1.946E+08	1.949E+08	1.114E+08	1.122E+08	4.571E+07	4.608E+07
13	5.904E+05	5.912E+05	2.910E+05	3.016E+05	1.305E+05	1.418E+05	7.412E+04	8.329E+04	4.966E+10	4.976E+10	2.843E+10	2.851E+10	9.812E+09	9.840E+09	3.106E+09	3.118E+09	6.141E+08	6.176E+08	1.946E+08	1.949E+08	1.114E+08	1.122E+08	4.571E+07	4.608E+07
14	3.243E+05	3.387E+05	1.598E+05	1.743E+05	7.171E+04	8.209E+04	4.072E+04	4.810E+04	4.966E+10	4.976E+10	2.843E+10	2.851E+10	9.812E+09	9.840E+09	3.106E+09	3.118E+09	6.141E+08	6.176E+08	1.946E+08	1.949E+08	1.114E+08	1.122E+08	4.571E+07	4.608E+07
15	1.441E+05	1.7																						

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	6.935E+09	6.973E+09	4.772E+09	4.799E+09	2.729E+09	2.766E+09	1.510E+09	1.520E+09	7.640E+08	7.695E+08	4.666E+08	4.701E+08
2	4.335E+08	4.379E+08	2.983E+08	3.016E+08	1.706E+08	1.766E+08	9.437E+07	9.560E+07	4.776E+07	4.841E+07	2.917E+07	2.958E+07
3	8.565E+07	8.698E+07	5.893E+07	5.992E+07	3.370E+07	3.442E+07	1.865E+07	1.902E+07	9.436E+06	9.637E+06	5.763E+06	5.886E+06
4	2.711E+07	2.768E+07	1.865E+07	1.908E+07	1.067E+07	1.093E+07	5.902E+06	6.060E+06	2.987E+06	3.071E+06	1.824E+06	1.877E+06
6	5.361E+06	5.535E+06	3.688E+06	3.819E+06	2.109E+06	2.191E+06	1.167E+06	1.216E+06	5.906E+05	6.165E+05	3.607E+05	3.769E+05
8	1.699E+06	1.776E+06	1.169E+06	1.226E+06	6.683E+05	7.044E+05	3.698E+05	3.911E+05	1.871E+05	1.985E+05	1.143E+05	1.214E+05
10	6.970E+05	7.383E+05	4.796E+05	5.103E+05	2.743E+05	2.935E+05	1.517E+05	1.631E+05	7.678E+04	8.279E+04	4.690E+04	5.064E+04
15	1.386E+05	1.520E+05	9.533E+04	1.053E+05	5.452E+04	6.068E+04	3.016E+04	3.377E+04	1.526E+04	1.717E+04	9.323E+03	1.051E+04
20	4.423E+04	5.034E+04	3.043E+04	3.490E+04	1.740E+04	2.015E+04	9.629E+03	1.123E+04	4.873E+03	5.710E+03	2.976E+03	3.496E+03
30	8.963E+03	1.092E+04	6.167E+03	7.580E+03	3.527E+03	4.380E+03	1.951E+03	2.443E+03	9.874E+02	1.243E+03	6.031E+02	7.612E+02
45	1.875E+03	2.458E+03	1.290E+03	1.704E+03	7.379E+02	9.842E+02	4.082E+02	5.474E+02	2.066E+02	2.783E+02	1.262E+02	1.703E+02
60	6.435E+02	8.659E+02	4.428E+02	5.979E+02	2.532E+02	3.411E+02	1.401E+02	1.902E+02	7.089E+01	9.636E+01	4.332E+01	5.888E+01
75	2.928E+02	3.846E+02	2.015E+02	2.637E+02	1.152E+02	1.499E+02	6.375E+01	8.246E+01	3.226E+01	4.152E+01	1.970E+01	2.530E+01
90	1.609E+02	1.961E+02	1.107E+02	1.329E+02	6.330E+01	7.443E+01	3.502E+01	4.043E+01	1.772E+01	2.015E+01	1.082E+01	1.222E+01
120	7.150E+01	6.522E+01	4.919E+01	4.236E+01	2.813E+01	2.273E+01	1.557E+01	1.149E+01	7.877E+00	5.470E+00	4.811E+00	3.243E+00
150	4.620E+01	2.819E+01	3.179E+01	1.683E+01	1.818E+01	7.712E+00	1.006E+01	3.401E+00	5.090E+00	1.380E+00	3.109E+00	7.461E+01
179	4.022E+01	1.956E+01	2.769E+01	1.090E+01	1.583E+01	4.358E+00	8.757E+00	1.535E+00	4.431E+00	4.379E+01	2.707E+00	1.716E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	2.289E+08	2.306E+08	1.363E+08	1.374E+08	9.057E+07	9.125E+07	4.837E+07	4.873E+07	2.459E+07	2.477E+07	1.126E+07	1.134E+07
2	1.431E+07	1.451E+07	8.522E+06	8.645E+06	5.661E+06	5.733E+06	3.024E+06	3.068E+06	1.537E+06	1.559E+06	7.040E+05	7.142E+05
3	2.827E+06	2.888E+06	1.684E+06	1.721E+06	1.119E+06	1.143E+06	5.974E+05	6.105E+05	3.037E+05	3.104E+05	1.391E+05	1.422E+05
4	8.949E+05	9.212E+05	5.330E+05	5.487E+05	3.541E+05	3.646E+05	1.891E+05	1.947E+05	9.612E+04	9.899E+04	4.402E+04	4.534E+04
6	1.769E+05	1.850E+05	1.054E+05	1.102E+05	7.001E+04	7.354E+04	3.739E+04	3.912E+04	1.901E+04	1.989E+04	8.705E+03	9.110E+03
8	5.607E+04	5.960E+04	3.339E+04	3.551E+04	2.218E+04	2.359E+04	1.185E+04	1.260E+04	6.022E+03	6.408E+03	2.758E+03	2.935E+03
10	2.301E+04	2.487E+04	1.370E+04	1.482E+04	9.102E+03	9.849E+03	4.861E+03	5.261E+03	2.471E+03	2.675E+03	1.132E+03	1.225E+03
15	4.574E+03	5.162E+03	2.724E+03	3.077E+03	1.809E+03	2.045E+03	9.664E+02	1.092E+03	4.912E+02	5.553E+02	2.250E+02	2.544E+02
20	1.460E+03	1.718E+03	8.696E+02	1.024E+03	5.776E+02	6.806E+02	3.085E+02	3.636E+02	1.568E+02	1.849E+02	7.183E+01	8.469E+01
30	2.958E+02	3.742E+02	1.762E+02	2.231E+02	1.170E+02	1.483E+02	6.251E+01	7.921E+01	3.178E+01	4.027E+01	1.455E+01	1.845E+01
45	1.190E+01	1.368E+01	3.687E+01	4.987E+01	2.449E+01	3.314E+01	1.308E+01	1.770E+01	6.648E+00	9.011E+00	3.045E+00	4.123E+00
60	2.124E+01	2.889E+01	1.265E+01	1.721E+01	8.404E+00	1.143E+01	4.488E+00	6.106E+00	2.281E+00	3.104E+00	1.045E+00	1.422E+00
75	9.666E+00	1.238E+01	5.757E+00	7.368E+00	3.824E+00	4.892E+00	2.042E+00	2.612E+00	1.038E+00	1.327E+00	4.755E+00	6.078E+00
90	5.310E+00	5.957E+00	3.163E+00	3.538E+00	2.101E+00	2.367E+00	1.122E+00	1.252E+00	5.703E+01	6.360E+01	2.612E+01	2.912E+01
120	2.360E+00	1.549E+00	1.406E+00	9.121E+01	9.337E+01	6.025E+01	4.987E+01	3.200E+01	2.535E+01	1.622E+01	1.161E+01	7.414E+02
150	1.525E+00	3.246E+01	9.082E+01	1.831E+01	6.034E+01	1.142E+01	3.222E+01	6.143E+02	1.638E+01	3.073E+02	7.502E+02	1.395E+02
179	1.328E+00	4.316E+02	7.908E+01	1.563E+02	5.253E+01	6.945E+03	2.805E+01	2.639E+03	1.426E+01	5.441E+04	6.532E+02	1.220E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	6.434E+06	6.492E+06	2.906E+06	2.927E+06	1.688E+06	1.680E+06	1.060E+06	1.068E+06	5.438E+05	5.479E+05	2.676E+05	2.694E+05
2	4.022E+05	4.081E+05	1.816E+05	1.843E+05	1.030E+05	1.045E+05	6.625E+04	6.722E+04	3.399E+04	3.449E+04	1.673E+04	1.697E+04
3	7.947E+04	8.122E+04	3.589E+04	3.668E+04	2.035E+04	2.080E+04	1.309E+04	1.338E+04	6.717E+03	6.865E+03	3.305E+03	3.378E+03
4	2.515E+04	2.591E+04	1.136E+04	1.170E+04	6.442E+03	6.645E+03	4.143E+03	4.267E+03	2.124E+03	2.190E+03	1.046E+03	1.078E+03
6	4.974E+03	5.205E+03	2.246E+03	2.351E+03	1.274E+03	1.343E+03	8.193E+02	8.574E+02	4.204E+02	4.399E+02	2.669E+02	2.165E+02
8	1.576E+03	1.677E+03	7.117E+02	7.574E+02	4.036E+02	4.295E+02	2.596E+02	2.763E+02	1.332E+02	1.418E+02	6.555E+01	6.976E+01
10	6.467E+02	7.001E+02	2.920E+02	3.162E+02	1.666E+02	1.793E+02	1.065E+02	1.153E+02	5.466E+01	5.917E+01	2.690E+01	2.912E+01
15	1.286E+02	1.454E+02	5.806E+01	6.564E+01	3.292E+01	3.753E+01	2.118E+01	2.394E+01	1.087E+01	1.229E+01	5.347E+00	6.046E+00
20	4.104E+01	4.839E+01	1.853E+01	2.185E+01	1.051E+01	1.239E+01	6.760E+00	7.972E+00	3.469E+00	4.090E+00	1.707E+00	2.013E+00
30	8.315E+00	1.054E+01	3.755E+00	4.761E+00	2.130E+00	2.760E+00	1.370E+00	1.737E+00	7.028E+01	8.911E+01	3.459E+01	4.385E+01
45	1.740E+00	2.356E+00	7.857E+01	1.064E+00	4.456E+00	6.034E+01	2.866E+01	3.881E+01	1.471E+01	1.991E+01	7.237E+02	9.876E+02
60	5.970E+01	8.123E+01	2.696E+01	3.668E+01	1.529E+01	2.080E+01	9.834E+02	1.338E+01	5.046E+02	6.865E+02	2.483E+02	3.379E+02
75	2.717E+01	3.473E+01	1.227E+01	1.568E+01	6.958E+02	8.803E+02	4.475E+02	5.720E+02	2.296E+02	2.935E+02	1.130E+02	1.444E+02
90	1.493E+01	1.643E+01	6.741E+02	7.511E+02	3.823E+02	4.240E+02	2.459E+02	2.740E+02	1.262E+02	1.406E+02	6.208E+03	6.918E+03
120	6.634E+02	4.233E+02	2.996E+02	1.911E+02	1.699E+02	1.044E+02	1.093E+02	6.968E+03	5.607E+03	3.575E+03	2.759E+03	1.759E+03
150	4.286E+02	7.941E+03	1.936E+02	3.578E+03	1.098E+02	2.027E+03	7.061E+03	1.303E+03	3.623E+03	6.848E+04	1.783E+03	3.284E+04
179	3.732E+02	4.330E+05	1.685E+02	1.082E+05	9.558E+03	4.371E+06	6.147E+03	2.280E+06	3.154E+03	9.303E+07	1.552E+03	3.947E+07

HA (56)

(HARNS/STEPADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	7.021E+14	7.025E+14	3.123E+14	3.125E+14	1.759E+14	1.760E+14	7.831E+13	7.836E+13	4.414E+13	4.416E+13	2.830E+13	2.832E+13
2	4.389E+13	4.391E+13	1.952E+13	1.954E+13	1.099E+13	1.100E+13	4.895E+12	4.899E+12	2.759E+12	2.761E+12	1.769E+12	1.771E+12
3	8.671E+12	8.676E+12	3.858E+12	3.860E+12	2.172E+12	2.174E+12	9.672E+11	9.680E+11	5.451E+11	5.456E+11	3.495E+11	3.499E+11
4	2.745E+12	2.746E+12	1.221E+12	1.222E+12	6.875E+11	6.880E+11	3.061E+11	3.064E+11	1.725E+11	1.727E+11	1.106E+11	1.108E+11
6	5.427E+11	5.431E+11	2.414E+11	2.416E+11	1.359E+11	1.361E+11	6.053E+10	6.059E+10	3.412E+10	3.416E+10	2.188E+10	2.190E+10
8	1.720E+11	1.721E+11	7.650E+10	7.656E+10	4.307E+10	4.311E+10	1.918E+10	1.921E+10	1.081E+10	1.082E+10	6.332E+09	6.342E+09
10	7.056E+10	7.062E+10	3.139E+10	3.142E+10	1.767E+10	1.769E+10	7.871E+09	7.881E+09	4.436E+09	4.442E+09	2.844E+09	2.851E+09
15	1.403E+10	1.404E+10	6.240E+09	6.247E+09	3.513E+09	3.519E+09	1.565E+09	1.567E+09	8.818E+08	8.844E+08	5.654E+08	5.667E+08
20	4.478E+09	4.481E+09	1.992E+09	1.995E+09	1.122E+09	1.123E+09	4.995E+08	5.011E+08	2.815E+08	2.820E+08	1.805E+08	1.807E+08
30	9.073E+08	9.082E+08	4.036E+08	4.046E+08	2.273E+08	2.280E+08	1.012E+08	1.012E+08	5.704E+07	5.724E+07	3.658E+07	3.686E+07
45	1.898E+08	1.906E+08	8.445E+07	8.432E+07	4.755E+07	4.758E+07	2.118E+07	2.139E+07	1.193E+07	1.206E+07	7.653E+06	7.699E+06
60	6.514E+07	6.482E+07	2.898E+07	2.922E+07	1.532E+07	1.654E+07	7.266E+06	7.297E+06	4.095E+06	4.064E+06	2.626E+06	2.589E+06
75	2.965E+07	3.016E+07	1.319E+07	1.333E+07	7.426E+06	7.384E+06	3.307E+06	3.222E+06	1.864E+06	1.810E+06	1.195E+06	1.167E+06
90	1.629E+07	1.620E+07	7.245E+06	6.984E+06	4.079E+06	3.890E+06	1.817E+06	1.745E+06	1.024E+06	1.003E+06	6.565E+05	6.572E+05
120	7.238E+06	6.963E+06	3.220E+06	3.248E+06	1.813E+06	1.898E+06	8.074E+05	8.909E+05	4.550E+05	5.205E+05	2.918E+05	3.427E+05
150	4.677E+06	5.862E+06	2.081E+06	2.697E+06	1.172E+06	1.553E+06	5.217E+05	7.115E+05	2.940E+05	4.082E+05	1.885E+05	2.650E+05
179	4.072E+06	5.743E+06	1.812E+06	2.806E+06	1.020E+06	1.447E+06	4.542E+05	6.737E+05	2.560E+05	3.836E+05	1.641E+05	2.676E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.450E+13	1.451E+13	7.143E+12	7.149E+12	3.205E+12	3.208E+12	1.820E+12	1.822E+12	8.236E+11	8.247E+11	4.715E+11	4.723E+11
2	9.061E+11	9.069E+11	4.465E+11	4.470E+11	2.003E+11	2.006E+11	1.137E+11	1.139E+11	5.148E+10	5.158E+10	2.948E+10	2.955E+10
3	1.790E+11	1.792E+11	8.823E+10	8.834E+10	3.958E+10	3.965E+10	2.247E+10	2.252E+10	1.017E+10	1.020E+10	5.824E+09	5.846E+09
4	5.666E+10	5.673E+10	2.792E+10	2.797E+10	1.253E+10	1.255E+10	7.113E+09	7.130E+09	3.220E+09	3.232E+09	1.843E+09	1.852E+09
6	1.120E+10	1.122E+10	5.522E+09	5.534E+09	2.477E+09	2.484E+09	1.407E+09	1.412E+09	6.366E+08	6.403E+08	3.645E+08	3.669E+08
8	3.550E+09	3.559E+09	1.750E+09	1.753E+09	7.850E+08	7.878E+08	4.457E+08	4.482E+08	2.017E+08	2.032E+08	1.155E+08	1.164E+08
10	1.457E+09	1.460E+09	7.179E+08	7.196E+08	3.221E+08	3.238E+08	1.629E+08	1.642E+08	8.277E+07	8.343E+07	4.739E+07	4.778E+07
15	2.896E+08	2.902E+08	1.427E+08	1.435E+08	6.403E+07	6.459E+07	3.635E+07	3.666E+07	1.645E+07	1.657E+07	9.421E+06	9.507E+06
20	9.245E+07	9.291E+07	4.556E+07	4.598E+07	2.044E+07	2.061E+07	1.161E+07	1.167E+07	5.253E+06	5.288E+06	3.008E+06	3.045E+06
30	1.873E+07	1.893E+07	9.232E+06	9.287E+06	4.142E+06	4.144E+06	2.352E+06	2.357E+06	1.064E+06	1.081E+06	6.094E+05	6.298E+05
45	3.919E+06	3.907E+06	1.932E+06	1.918E+06	8.066E+05	8.098E+05	4.920E+05	5.028E+05	2.227E+05	2.359E+05	1.275E+05	1.392E+05
60	1.345E+06	1.326E+06	6.628E+05	6.632E+05	2.974E+05	3.077E+05	1.688E+05	1.802E+05	7.642E+04	8.554E+04	4.375E+04	5.067E+04
75	6.121E+05	6.107E+05	3.016E+05	3.116E+05	1.353E+05	1.467E+05	7.683E+04	8.628E+04	3.478E+04	4.098E+04	1.991E+04	2.421E+04
90	3.362E+05	3.499E+05	1.657E+05	1.804E+05	7.434E+04	8.511E+04	4.221E+04	4.995E+04	1.910E+04	2.355E+04	1.094E+04	1.380E+04
120	1.494E+05	1.820E+05	7.365E+04	9.275E+04	3.304E+04	4.288E+04	1.876E+04	2.471E+04	8.491E+03	1.130E+04	4.861E+03	6.462E+03
150	9.656E+04	1.378E+05	4.759E+04	6.867E+04	2.135E+04	3.092E+04	1.212E+04	1.748E+04	5.487E+03	7.758E+03	3.141E+03	4.331E+03
179	8.437E+04	1.277E+05	4.143E+04	6.308E+04	1.859E+04	2.812E+04	1.055E+04	1.577E+04	4.777E+03	6.920E+03	2.735E+03	3.826E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	3.070E+11	3.076E+11	1.619E+11	1.623E+11	8.312E+10	8.375E+10	3.962E+10	3.976E+10	2.372E+10	2.382E+10	1.172E+10	1.178E+10
2	1.919E+10	1.925E+10	1.012E+10	1.016E+10	5.196E+09	5.221E+09	2.677E+09	2.692E+09	1.483E+09	1.494E+09	7.326E+08	7.393E+08
3	3.792E+09	3.809E+09	2.000E+09	2.011E+09	1.027E+09	1.033E+09	4.894E+08	4.937E+08	2.930E+08	2.961E+08	1.448E+08	1.467E+08
4	1.200E+09	1.207E+09	6.330E+08	6.373E+08	3.249E+08	3.277E+08	1.549E+08	1.567E+08	9.273E+07	9.404E+07	4.582E+07	4.665E+07
6	2.373E+08	2.391E+08	1.252E+08	1.263E+08	6.425E+07	6.502E+07	3.063E+07	3.116E+07	1.834E+07	1.873E+07	9.059E+06	9.314E+06
8	7.520E+07	7.584E+07	3.966E+07	4.009E+07	2.036E+07	2.068E+07	9.705E+06	9.937E+06	5.810E+06	5.986E+06	2.870E+06	2.983E+06
10	3.080E+07	3.115E+07	1.627E+07	1.649E+07	8.354E+06	8.526E+06	3.982E+06	4.108E+06	2.384E+06	2.480E+06	1.178E+06	1.239E+06
15	6.134E+06	6.213E+06	3.235E+06	3.308E+06	1.661E+06	1.721E+06	7.916E+05	8.354E+05	4.739E+05	5.066E+05	2.342E+05	2.544E+05
20	1.958E+06	1.998E+06	1.033E+06	1.071E+06	5.301E+05	5.610E+05	2.527E+05	2.740E+05	1.513E+05	1.668E+05	7.475E+04	8.411E+04
30	3.968E+05	4.169E+05	2.093E+05	2.260E+05	1.074E+05	1.196E+05	5.121E+04	5.891E+04	3.066E+04	3.601E+04	1.515E+04	1.824E+04
45	8.302E+04	9.286E+04	4.378E+04	5.077E+04	2.247E+04	2.701E+04	1.071E+04	1.334E+04	6.414E+03	8.155E+03	3.169E+03	4.128E+03
60	2.849E+04	3.384E+04	1.502E+04	1.848E+04	7.712E+03	9.705E+03	3.677E+03	4.807E+03	2.201E+03	2.923E+03	1.087E+03	1.468E+03
75	1.296E+04	1.611E+04	6.837E+03	8.730E+03	3.510E+03	4.581E+03	1.673E+03	2.218E+03	1.002E+03	1.335E+03	4.949E+02	6.605E+02
90	7.122E+03	9.114E+03	3.756E+03	4.878E+03	1.928E+03	2.520E+03	9.191E+02	1.196E+03	5.502E+02	7.088E+02	2.719E+02	3.428E+02
120	3.165E+03	4.178E+03	1.669E+03	2.157E+03	8.569E+02	1.040E+03	4.085E+02	4.767E+02	2.446E+02	2.693E+02	1.208E+02	1.209E+02
150	2.045E+03	2.743E+03	1.079E+03	1.366E+03	5.537E+02	6.411E+02	2.640E+02	2.691E+02	1.580E+02	1.430E+02	7.808E+01	5.753E+01
179	1.781E+03	2.403E+03	9.391E+02	1.178E+03	4.821E+02	5.443E+02	2.298E+02	2.201E+02	1.376E+02	1.132E+02	6.798E+01	4.268E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	7.190E+09	7.229E+09	4.947E+09	4.976E+09	2.829E+09	2.847E+09	1.565E+09	1.576E+09	7.920E+08	7.978E+08	4.838E+08	4.873E+08
2	4.494E+08	4.540E+08	3.092E+08	3.127E+08	1.768E+08	1.790E+08	9.784E+07	9.911E+07	4.951E+07	5.019E+07	3.024E+07	3.066E+07
3	8.880E+07	9.017E+07	6.110E+07	6.211E+07	3.494E+07	3.558E+07	1.933E+07	1.971E+07	9.782E+06	9.986E+06	5.975E+06	6.102E+06
4	2.811E+07	2.869E+07	1.934E+07	1.977E+07	1.106E+07	1.133E+07	6.119E+06	6.282E+06	3.096E+06	3.183E+06	1.891E+06	1.946E+06
6	5.557E+06	5.737E+06	3.824E+06	3.958E+06	2.187E+06	2.272E+06	1.210E+06	1.260E+06	6.122E+05	6.391E+05	3.739E+05	3.907E+05
8	1.761E+06	1.841E+06	1.212E+06	1.271E+06	6.929E+05	7.303E+05	3.833E+05	4.055E+05	1.940E+05	2.058E+05	1.185E+05	1.258E+05
10	7.226E+05	7.653E+05	4.972E+05	5.290E+05	2.843E+05	3.043E+05	1.573E+05	1.691E+05	7.960E+04	8.586E+04	4.862E+04	5.252E+04
15	1.436E+05	1.577E+05	9.883E+04	1.092E+05	5.652E+04	6.295E+04	3.127E+04	3.504E+04	1.582E+04	1.781E+04	9.665E+03	1.090E+04
20	4.586E+04	5.223E+04	3.155E+04	3.623E+04	1.804E+04	2.092E+04	9.983E+03	1.166E+04	5.052E+03	5.931E+03	3.085E+03	3.632E+03
30	9.292E+03	1.135E+04	6.393E+03	7.885E+03	3.656E+03	4.559E+03	2.023E+03	2.543E+03	1.024E+03	1.295E+03	6.252E+02	7.928E+02
45	1.944E+03	2.566E+03	1.338E+03	1.780E+03	7.649E+02	1.027E+03	4.232E+02	5.723E+02	2.142E+02	2.910E+02	1.308E+02	1.781E+02
60	6.671E+02	9.072E+02	4.590E+02	6.268E+02	2.625E+02	3.599E+02	1.452E+02	1.996E+02	7.349E+01	1.012E+02	4.489E+01	6.183E+01
75	3.036E+02	4.042E+02	2.089E+02	2.773E+02	1.195E+02	1.578E+02	6.609E+01	8.683E+01	3.344E+01	4.374E+01	2.043E+01	2.666E+01
90	1.668E+02	2.066E+02	1.147E+02	1.401E+02	6.562E+01	7.854E+01	3.631E+01	4.269E+01	1.837E+01	2.129E+01	1.127E+01	1.292E+01
120	7.412E+01	6.891E+01	5.100E+01	4.479E+01	2.917E+01	2.354E+01	1.614E+01	1.217E+01	8.166E+00	5.800E+00	4.987E+00	3.441E+00
150	4.790E+01	2.979E+01	3.295E+01	1.779E+01	1.885E+01	8.141E+00	1.043E+01	3.604E+00	5.276E+00	1.464E+00	3.223E+00	7.922E+01
179	4.170E+01	2.066E+01	2.869E+01	1.151E+01	1.641E+01	4.570E+00	9.078E+00	1.620E+00	4.594E+00	4.463E+01	2.804E+00	1.811E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	2.373E+08	2.391E+08	1.413E+08	1.424E+08	9.389E+07	9.460E+07	5.014E+07	5.053E+07	2.549E+07	2.568E+07	1.167E+07	1.176E+07
2	1.483E+07	1.505E+07	8.835E+06	8.963E+06	5.869E+06	5.955E+06	3.134E+06	3.180E+06	1.593E+06	1.617E+06	7.298E+05	7.405E+05
3	2.931E+06	2.995E+06	1.746E+06	1.784E+06	1.160E+06	1.185E+06	6.193E+05	6.329E+05	3.148E+05	3.218E+05	1.442E+05	1.474E+05
4	9.277E+05	9.550E+05	5.525E+05	5.689E+05	3.670E+05	3.780E+05	1.960E+05	2.019E+05	9.964E+04	1.026E+05	4.564E+04	4.701E+04
6	1.834E+05	1.918E+05	1.093E+05	1.143E+05	7.258E+04	7.594E+04	3.876E+04	4.056E+04	1.970E+04	2.062E+04	9.024E+03	9.445E+03
8	5.812E+04	6.180E+04	3.462E+04	3.682E+04	2.300E+04	2.447E+04	1.228E+04	1.307E+04	6.243E+03	6.644E+03	2.859E+03	3.043E+03
10	2.385E+04	2.580E+04	1.421E+04	1.537E+04	9.437E+03	1.021E+04	5.040E+03	5.457E+03	2.562E+03	2.774E+03	1.173E+03	1.271E+03
15	4.741E+03	5.358E+03	2.824E+03	3.193E+03	1.876E+03	2.122E+03	1.002E+03	1.134E+03	5.093E+02	5.764E+02	2.333E+02	2.640E+02
20	1.514E+03	1.785E+03	9.015E+02	1.064E+03	5.948E+02	7.272E+02	3.198E+02	3.778E+02	1.626E+02	1.921E+02	7.446E+01	8.800E+01
30	3.067E+02	3.898E+02	1.827E+02	2.324E+02	1.213E+02	1.544E+02	6.480E+01	8.252E+01	3.294E+01	4.195E+01	1.509E+01	1.922E+01
45	6.417E+01	8.754E+01	3.822E+01	5.217E+01	2.539E+01	3.467E+01	1.356E+01	1.852E+01	6.892E+00	9.417E+00	3.157E+00	4.314E+00
60	2.202E+01	3.034E+01	1.311E+01	1.808E+01	8.712E+00	1.201E+01	4.653E+00	6.414E+00	2.365E+00	3.260E+00	1.083E+00	1.493E+00
75	1.002E+01	1.305E+01	5.968E+00	7.766E+00	3.965E+00	5.157E+00	2.117E+00	2.753E+00	1.076E+00	1.399E+00	4.930E+01	6.407E+01
90	5.505E+00	6.297E+00	3.279E+00	3.741E+00	2.178E+00	2.442E+00	1.163E+00	1.324E+00	5.913E+01	6.724E+01	2.708E+01	3.079E+01
120	2.447E+00	1.644E+00	1.457E+00	9.683E+01	9.680E+01	6.396E+01	5.170E+01	3.398E+01	2.628E+01	1.722E+01	1.204E+01	7.873E+02
150	1.581E+00	3.450E+01	9.416E+01	1.948E+01	6.255E+01	1.258E+01	3.341E+01	6.537E+02	1.698E+01	3.270E+02	7.778E+02	1.484E+02
179	1.376E+00	4.556E+02	8.198E+01	1.650E+02	5.446E+01	7.385E+03	2.908E+01	2.152E+03	1.478E+01	5.746E+04	6.771E+02	1.289E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	6.670E+06	6.721E+06	3.012E+06	3.035E+06	1.708E+06	1.721E+06	1.099E+06	1.107E+06	5.638E+05	5.681E+05	2.774E+05	2.796E+05
2	4.170E+05	4.231E+05	1.883E+05	1.911E+05	1.068E+05	1.084E+05	6.868E+04	6.969E+04	3.524E+04	3.576E+04	1.734E+04	1.760E+04
3	8.238E+04	8.420E+04	3.721E+04	3.803E+04	2.110E+04	2.157E+04	1.357E+04	1.387E+04	6.963E+03	7.117E+03	3.427E+03	3.502E+03
4	2.608E+04	2.686E+04	1.178E+04	1.213E+04	6.678E+03	6.879E+03	4.295E+03	4.424E+03	2.204E+03	2.270E+03	1.085E+03	1.117E+03
6	5.156E+03	5.397E+03	2.329E+03	2.437E+03	1.321E+03	1.382E+03	8.493E+02	8.889E+02	4.358E+02	4.561E+02	2.165E+02	2.245E+02
8	1.634E+03	1.739E+03	7.378E+02	7.853E+02	4.184E+02	4.454E+02	2.691E+02	2.864E+02	1.381E+02	1.470E+02	6.795E+01	7.233E+01
10	6.704E+02	7.261E+02	3.028E+02	3.279E+02	1.717E+02	1.860E+02	1.104E+02	1.196E+02	5.666E+01	6.137E+01	2.788E+01	3.020E+01
15	1.333E+02	1.509E+02	6.019E+01	6.813E+01	3.413E+01	3.844E+01	2.195E+01	2.485E+01	1.126E+01	1.275E+01	5.543E+00	6.275E+00
20	4.254E+01	5.028E+01	1.921E+01	2.271E+01	1.090E+01	1.288E+01	7.008E+00	8.283E+00	3.596E+00	4.250E+00	1.770E+00	2.091E+00
30	8.621E+00	1.098E+01	3.893E+00	4.960E+00	2.208E+00	2.813E+00	1.420E+00	1.809E+00	7.286E+01	9.282E+01	3.586E+01	4.568E+01
45	1.804E+00	2.465E+00	8.146E+01	1.113E+00	4.619E+01	6.313E+01	2.971E+01	4.060E+01	1.524E+01	2.083E+01	7.502E+01	1.025E+01
60	6.189E+01	8.532E+01	2.795E+01	3.853E+01	1.585E+01	2.185E+01	1.020E+01	1.405E+01	5.231E+02	7.212E+02	2.574E+02	3.549E+02
75	2.817E+01	3.661E+01	1.272E+01	1.653E+01	7.214E+02	9.374E+02	4.640E+02	6.029E+02	2.381E+02	3.094E+02	1.172E+02	1.522E+02
90	1.547E+01	1.759E+01	6.988E+02	7.942E+02	3.963E+02	4.503E+02	2.549E+02	2.896E+02	1.308E+02	1.486E+02	6.346E+03	7.314E+03
120	6.877E+02	4.495E+02	3.106E+02	2.029E+02	1.761E+02	1.151E+02	1.133E+02	7.399E+03	5.812E+02	3.796E+03	2.860E+03	1.868E+03
150	4.444E+02	8.453E+03	2.007E+02	3.808E+03	1.138E+02	2.148E+03	7.320E+03	1.387E+03	3.756E+03	7.115E+04	1.848E+03	3.501E+04
179	3.869E+02	4.579E+05	1.747E+02	1.146E+05	9.909E+03	4.634E+06	6.373E+03	2.419E+06	3.270E+03	9.886E+07	1.609E+03	4.199E+07

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	7.274E+14	7.278E+14	3.236E+14	3.238E+14	1.822E+14	1.823E+14	8.113E+13	8.118E+13	4.573E+13	4.576E+13	2.932E+13	2.934E+13
2	4.547E+13	4.549E+13	2.023E+13	2.024E+13	1.139E+13	1.140E+13	5.072E+12	5.075E+12	2.858E+12	2.861E+12	1.833E+12	1.834E+12
3	8.983E+12	8.989E+12	3.997E+12	3.999E+12	2.250E+12	2.252E+12	1.002E+12	1.003E+12	5.647E+11	5.652E+11	3.621E+11	3.625E+11
4	2.843E+12	2.845E+12	1.265E+12	1.266E+12	7.122E+11	7.128E+11	3.172E+11	3.175E+11	1.788E+11	1.789E+11	1.146E+11	1.148E+11
6	5.622E+11	5.626E+11	2.501E+11	2.503E+11	1.408E+11	1.410E+11	6.271E+10	6.277E+10	3.534E+10	3.539E+10	2.266E+10	2.269E+10
8	1.781E+11	1.783E+11	7.925E+10	7.932E+10	4.462E+10	4.467E+10	1.987E+10	1.990E+10	1.120E+10	1.121E+10	7.181E+09	7.192E+09
10	7.310E+10	7.317E+10	3.252E+10	3.256E+10	1.831E+10	1.833E+10	8.154E+09	8.166E+09	4.596E+09	4.601E+09	2.947E+09	2.953E+09
15	1.453E+10	1.455E+10	6.465E+09	6.471E+09	3.640E+09	3.646E+09	1.621E+09	1.623E+09	9.136E+08	9.163E+08	5.858E+08	5.873E+08
20	4.639E+09	4.642E+09	2.064E+09	2.068E+09	1.162E+09	1.163E+09	5.175E+08	5.192E+08	2.916E+08	2.922E+08	1.870E+08	1.872E+08
30	9.400E+08	9.412E+08	4.182E+08	4.190E+08	2.355E+08	2.363E+08	1.049E+08	1.049E+08	5.909E+07	5.927E+07	3.789E+07	3.814E+07
45	1.967E+08	1.976E+08	8.750E+07	8.738E+07	4.927E+07	4.955E+07	2.194E+07	2.215E+07	1.236E+07	1.251E+07	7.928E+06	7.987E+06
60	6.749E+07	6.711E+07	3.002E+07	3.024E+07	1.691E+07	1.714E+07	7.528E+06	7.573E+06	4.243E+06	4.217E+06	2.721E+06	2.683E+06
75	3.071E+07	3.124E+07	1.366E+07	1.384E+07	7.633E+06	7.669E+06	3.426E+06	3.40E+06	1.931E+06	1.873E+06	1.238E+06	1.206E+06
90	1.687E+07	1.684E+07	7.506E+06	7.245E+06	4.226E+06	4.026E+06	1.882E+06	1.801E+06	1.061E+06	1.035E+06	6.802E+05	6.778E+05
120	7.499E+06	7.170E+06	3.336E+06	3.347E+06	1.878E+06	1.968E+06	8.365E+05	9.211E+05	4.714E+05	5.390E+05	3.023E+05	3.553E+05
150	4.846E+06	6.099E+06	2.156E+06	2.810E+06	1.214E+06	1.619E+06	5.405E+05	7.430E+05	3.046E+05	4.268E+05	1.953E+05	2.772E+05
179	4.219E+06	6.009E+06	1.877E+06	2.729E+06	1.057E+06	1.588E+06	4.706E+05	7.064E+05	2.652E+05	4.025E+05	1.701E+05	2.599E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.502E+13	1.503E+13	7.401E+12	7.407E+12	3.320E+12	3.323E+12	1.885E+12	1.887E+12	6.533E+11	6.544E+11	4.885E+11	4.893E+11
2	9.387E+11	9.396E+11	4.626E+11	4.631E+11	2.076E+11	2.078E+11	1.178E+11	1.180E+11	5.334E+10	5.344E+10	3.054E+10	3.062E+10
3	1.855E+11	1.857E+11	9.140E+10	9.153E+10	4.101E+10	4.108E+10	2.328E+10	2.333E+10	1.054E+10	1.057E+10	6.034E+09	6.056E+09
4	5.871E+10	5.878E+10	2.893E+10	2.898E+10	1.298E+10	1.301E+10	7.370E+09	7.387E+09	3.336E+09	3.348E+09	1.910E+09	1.919E+09
6	1.161E+10	1.163E+10	5.721E+09	5.733E+09	2.567E+09	2.573E+09	1.457E+09	1.463E+09	6.595E+08	6.634E+08	3.776E+08	3.802E+08
8	3.678E+09	3.687E+09	1.813E+09	1.817E+09	8.132E+08	8.141E+08	4.617E+08	4.643E+08	2.090E+08	2.105E+08	1.197E+08	1.206E+08
10	1.509E+09	1.513E+09	7.439E+08	7.455E+08	3.337E+08	3.354E+08	1.895E+08	1.909E+08	8.576E+07	8.646E+07	4.910E+07	4.951E+07
15	3.000E+08	3.006E+08	1.478E+08	1.486E+08	6.634E+07	6.693E+07	3.766E+07	3.800E+07	1.705E+07	1.718E+07	9.760E+06	9.847E+06
20	9.578E+07	9.622E+07	4.720E+07	4.764E+07	2.118E+07	2.137E+07	1.202E+07	1.210E+07	5.442E+06	5.477E+06	3.116E+06	3.153E+06
30	1.941E+07	1.962E+07	9.564E+06	9.631E+06	4.291E+06	4.294E+06	2.436E+06	2.440E+06	1.103E+06	1.118E+06	6.314E+05	6.512E+05
45	4.061E+06	4.052E+06	2.001E+06	1.986E+06	8.978E+05	8.993E+05	5.098E+05	5.196E+05	2.307E+05	2.438E+05	1.321E+05	1.440E+05
60	1.393E+06	1.372E+06	6.867E+05	6.852E+05	3.081E+05	3.178E+05	1.749E+05	1.862E+05	7.917E+04	8.852E+04	4.533E+04	5.250E+04
75	6.341E+05	6.304E+05	3.125E+05	3.217E+05	1.402E+05	1.516E+05	7.960E+04	8.930E+04	3.603E+04	4.251E+04	2.063E+04	2.515E+04
90	3.484E+05	3.611E+05	1.717E+05	1.864E+05	7.702E+04	8.816E+04	4.373E+04	5.183E+04	1.979E+04	2.449E+04	1.133E+04	1.438E+04
120	1.548E+05	1.891E+05	7.630E+04	9.653E+04	3.423E+04	4.472E+04	1.944E+04	2.581E+04	8.797E+03	1.183E+04	5.037E+03	6.770E+03
150	1.000E+05	1.443E+05	4.930E+04	7.199E+04	2.212E+04	3.246E+04	1.256E+04	1.836E+04	5.684E+03	8.159E+03	3.255E+03	4.558E+03
179	8.710E+04	1.342E+05	4.292E+04	6.631E+04	1.926E+04	2.949E+04	1.093E+04	1.661E+04	4.949E+03	7.291E+03	2.834E+03	4.333E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	3.181E+11	3.186E+11	1.678E+11	1.681E+11	8.611E+10	8.635E+10	4.105E+10	4.119E+10	2.458E+10	2.468E+10	1.214E+10	1.220E+10
2	1.988E+10	1.995E+10	1.049E+10	1.053E+10	5.383E+09	5.409E+09	2.566E+09	2.582E+09	1.536E+09	1.548E+09	7.590E+08	7.659E+08
3	3.929E+09	3.946E+09	2.072E+09	2.083E+09	1.064E+09	1.071E+09	5.070E+08	5.115E+08	3.035E+08	3.068E+08	1.500E+08	1.520E+08
4	1.244E+09	1.251E+09	6.558E+08	6.603E+08	3.366E+08	3.395E+08	1.605E+08	1.623E+08	9.607E+07	9.747E+07	4.747E+07	4.832E+07
6	2.459E+08	2.477E+08	1.297E+08	1.308E+08	6.656E+07	6.746E+07	3.173E+07	3.227E+07	1.900E+07	1.940E+07	9.386E+06	9.648E+06
8	7.791E+07	7.858E+07	4.109E+07	4.153E+07	2.109E+07	2.142E+07	1.005E+07	1.029E+07	6.019E+06	6.199E+06	2.974E+06	3.090E+06
10	3.197E+07	3.227E+07	1.686E+07	1.708E+07	8.655E+06	8.859E+06	4.126E+06	4.254E+06	2.470E+06	2.568E+06	1.220E+06	1.283E+06
15	6.355E+06	6.434E+06	3.352E+06	3.424E+06	1.720E+06	1.782E+06	8.202E+05	8.649E+05	4.910E+05	5.245E+05	2.426E+05	2.636E+05
20	2.029E+06	2.068E+06	1.070E+06	1.108E+06	5.492E+05	5.805E+05	2.618E+05	2.837E+05	1.567E+05	1.727E+05	7.744E+04	8.718E+04
30	4.111E+05	4.310E+05	2.168E+05	2.338E+05	1.113E+05	1.238E+05	5.305E+04	6.106E+04	3.170E+04	3.735E+04	1.569E+04	1.894E+04
45	8.601E+04	9.610E+04	4.536E+04	5.261E+04	2.328E+04	2.803E+04	1.110E+04	1.387E+04	6.645E+03	8.488E+03	3.283E+03	4.302E+03
60	2.952E+04	3.510E+04	1.557E+04	1.921E+04	7.909E+03	1.020E+04	3.809E+03	5.015E+03	2.240E+03	3.053E+03	1.127E+03	1.535E+03
75	1.343E+04	1.675E+04	7.084E+03	9.100E+03	3.636E+03	4.784E+03	1.733E+03	2.321E+03	1.038E+03	1.399E+03	5.127E+02	6.931E+02
90	7.379E+03	9.507E+03	3.891E+03	5.098E+03	1.997E+03	2.648E+03	9.521E+02	1.254E+03	5.701E+02	7.444E+02	2.817E+02	3.606E+02
120	3.279E+03	4.381E+03	1.729E+03	2.265E+03	8.878E+02	1.121E+03	4.232E+02	5.019E+02	2.534E+02	2.838E+02	1.257E+02	1.276E+02
150	2.119E+03	2.888E+03	1.118E+03	1.439E+03	5.737E+02	6.791E+02	2.735E+02	2.838E+02	1.637E+02	1.509E+02	8.089E+01	6.074E+01
179	1.845E+03	2.534E+03	9.730E+02	1.243E+03	4.995E+02	5.744E+02	2.323E+02	2.323E+02	1.425E+02	1.195E+02	7.043E+01	4.506E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	7.449E+09	7.489E+09	5.125E+09	5.155E+09	2.931E+09	2.949E+09	1.622E+09	1.633E+09	8.206E+08	8.265E+08	5.012E+08	5.049E+08
2	4.656E+08	4.704E+08	3.204E+08	3.239E+08	1.832E+08	1.854E+08	1.014E+08	1.027E+08	5.129E+07	5.199E+07	3.133E+07	3.177E+07
3	9.200E+07	9.341E+07	6.330E+07	6.435E+07	3.620E+07	3.686E+07	2.003E+07	2.042E+07	1.013E+07	1.035E+07	6.190E+06	6.322E+06
4	2.912E+07	2.972E+07	2.004E+07	2.049E+07	1.146E+07	1.174E+07	6.339E+06	6.509E+06	3.208E+06	3.298E+06	1.959E+06	2.016E+06
6	5.758E+06	5.943E+06	3.962E+06	4.101E+06	2.265E+06	2.353E+06	1.253E+06	1.306E+06	6.343E+05	6.622E+05	3.874E+05	4.048E+05
8	1.824E+06	1.906E+06	1.255E+06	1.317E+06	7.178E+05	7.566E+05	3.972E+05	4.202E+05	2.010E+05	2.132E+05	1.228E+05	1.304E+05
10	7.486E+05	7.927E+05	5.151E+05	5.481E+05	2.946E+05	3.153E+05	1.630E+05	1.752E+05	8.247E+04	8.898E+04	5.037E+04	5.443E+04
15	1.488E+05	1.634E+05	1.024E+05	1.132E+05	5.856E+04	6.526E+04	3.240E+04	3.633E+04	1.639E+04	1.847E+04	1.001E+04	1.131E+04
20	4.751E+04	5.416E+04	3.269E+04	3.757E+04	1.869E+04	2.170E+04	1.034E+04	1.210E+04	5.234E+03	6.157E+03	3.197E+03	3.770E+03
30	9.626E+03	1.180E+04	6.623E+03	8.196E+03	3.788E+03	4.741E+03	2.096E+03	2.646E+03	1.060E+03	1.347E+03	6.477E+02	8.251E+02
45	2.014E+03	2.676E+03	1.386E+03	1.857E+03	7.925E+02	1.073E+03	4.385E+02	5.979E+02	2.219E+02	3.041E+02	1.355E+02	1.862E+02
60	6.911E+02	9.498E+02	4.755E+02	6.566E+02	2.719E+02	3.773E+02	1.505E+02	2.094E+02	7.614E+01	1.062E+02	4.650E+01	6.489E+01
75	3.145E+02	4.245E+02	2.164E+02	2.914E+02	1.238E+02	1.659E+02	6.847E+01	9.139E+01	3.465E+01	4.606E+01	2.116E+01	2.908E+01
90	1.728E+02	2.175E+02	1.189E+02	1.476E+02	6.799E+01	8.283E+01	3.761E+01	4.506E+01	1.903E+01	2.248E+01	1.163E+01	1.364E+01
120	7.679E+01	7.278E+01	5.284E+01	4.734E+01	3.022E+01	2.501E+01	1.672E+01	1.289E+01	8.460E+00	6.149E+00	5.167E+00	3.649E+00
150	4.962E+01	3.147E+01	3.414E+01	1.861E+01	1.952E+01	8.634E+00	1.080E+01	3.817E+00	5.466E+00	1.553E+00	3.339E+00	8.410E+00
179	4.320E+01	2.181E+01	2.973E+01	1.215E+01	1.700E+01	4.823E+00	9.405E+00	1.710E+00	4.759E+00	4.879E+01	2.907E+00	1.912E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	2.459E+08	2.477E+08	1.464E+08	1.475E+08	9.728E+07	9.802E+07	5.195E+07	5.235E+07	2.641E+07	2.661E+07	1.210E+07	1.219E+07
2	1.537E+07	1.559E+07	9.153E+06	9.285E+06	6.081E+06	6.148E+06	3.247E+06	3.294E+06	1.651E+06	1.675E+06	7.561E+05	7.671E+05
3	3.037E+06	3.103E+06	1.809E+06	1.848E+06	1.201E+06	1.228E+06	6.416E+05	6.558E+05	3.262E+05	3.334E+05	1.494E+05	1.527E+05
4	9.611E+05	9.894E+05	5.724E+05	5.894E+05	3.803E+05	3.916E+05	2.031E+05	2.092E+05	1.032E+05	1.063E+05	4.728E+04	4.870E+04
6	1.900E+05	1.988E+05	1.132E+05	1.184E+05	7.519E+04	7.848E+04	4.016E+04	4.203E+04	2.041E+04	2.136E+04	9.350E+03	9.786E+03
8	6.022E+04	6.404E+04	3.586E+04	3.816E+04	2.382E+04	2.535E+04	1.272E+04	1.354E+04	6.468E+03	6.885E+03	2.962E+03	3.154E+03
10	2.471E+04	2.674E+04	1.472E+04	1.593E+04	9.777E+03	1.059E+04	5.221E+03	5.655E+03	2.654E+03	2.875E+03	1.216E+03	1.317E+03
15	4.912E+03	5.557E+03	2.926E+03	3.312E+03	1.943E+03	2.201E+03	1.038E+03	1.176E+03	5.276E+02	5.978E+02	2.417E+02	2.739E+02
20	1.568E+03	1.853E+03	9.339E+02	1.105E+03	6.204E+02	7.342E+02	3.313E+02	3.923E+02	1.684E+02	1.994E+02	7.715E+01	9.136E+01
30	3.177E+02	4.057E+02	1.892E+02	2.419E+02	1.257E+02	1.608E+02	6.714E+01	8.589E+01	3.413E+01	4.367E+01	1.563E+01	2.001E+01
45	6.648E+01	9.150E+01	3.960E+01	5.454E+01	2.630E+01	3.674E+01	1.405E+01	1.936E+01	7.141E+00	9.845E+00	3.271E+00	4.510E+00
60	2.281E+01	3.185E+01	1.359E+01	1.897E+01	9.026E+00	1.261E+01	4.820E+00	6.733E+00	2.450E+00	3.423E+00	1.122E+00	1.568E+00
75	1.038E+01	1.375E+01	6.183E+00	8.181E+00	4.108E+00	5.433E+00	2.194E+00	2.900E+00	1.115E+00	1.474E+00	5.107E+01	6.750E+01
90	5.703E+00	6.653E+00	3.397E+00	3.952E+00	2.256E+00	2.672E+00	1.205E+00	1.399E+00	6.126E+01	7.105E+01	2.806E+01	3.253E+01
120	2.535E+00	1.744E+00	1.510E+00	1.027E+00	1.003E+00	7.688E+01	5.356E+01	3.606E+01	2.723E+01	1.827E+01	1.247E+01	8.356E+02
150	1.638E+00	3.666E+01	9.755E+01	2.071E+01	6.480E+01	1.338E+01	3.461E+01	6.953E+02	1.759E+01	3.479E+02	8.058E+02	1.579E+02
179	1.426E+00	4.809E+02	8.493E+01	1.742E+02	5.642E+01	7.795E+03	3.013E+01	2.272E+03	1.532E+01	6.068E+04	7.015E+02	1.362E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	6.911E+06	6.964E+06	3.121E+06	3.145E+06	1.770E+06	1.7A3E+06	1.138E+06	1.147E+06	5.841E+05	5.886E+05	2.874E+05	2.897E+05
2	4.320E+05	4.383E+05	1.951E+05	1.979E+05	1.106E+05	1.122E+05	7.116E+04	7.219E+04	3.651E+04	3.704E+04	1.797E+04	1.82 E+04
3	8.535E+04	8.724E+04	3.855E+04	3.940E+04	2.186E+04	2.234E+04	1.406E+04	1.437E+04	7.214E+03	7.374E+03	3.550E+03	3.629E+03
4	2.702E+04	2.783E+04	1.220E+04	1.257E+04	6.919E+03	7.127E+03	4.450E+03	4.584E+03	2.283E+03	2.352E+03	1.124E+03	1.157E+03
6	5.342E+03	5.591E+03	2.412E+03	2.525E+03	1.368E+03	1.442E+03	8.799E+02	9.211E+02	4.515E+02	4.726E+02	2.222E+02	2.328E+02
8	1.693E+03	1.802E+03	7.644E+02	8.138E+02	4.335E+02	4.615E+02	2.788E+02	2.968E+02	1.431E+02	1.523E+02	7.040E+01	7.495E+01
10	6.946E+02	7.525E+02	3.137E+02	3.398E+02	1.779E+02	1.977E+02	1.144E+02	1.240E+02	5.870E+01	6.361E+01	2.889E+01	3.130E+01
15	1.381E+02	1.565E+02	6.235E+01	7.067E+01	3.536E+01	4.008E+01	2.274E+01	2.578E+01	1.167E+01	1.323E+01	5.743E+00	6.509E+00
20	4.408E+01	5.220E+01	1.991E+01	2.358E+01	1.129E+01	1.337E+01	7.260E+00	8.599E+00	3.725E+00	4.412E+00	1.633E+00	2.171E+00
30	8.931E+00	1.143E+01	4.033E+00	5.163E+00	2.287E+00	2.928E+00	1.471E+00	1.883E+00	7.549E+01	9.662E+01	3.715E+01	4.755E+01
45	1.869E+00	2.577E+00	8.439E+01	1.164E+01	4.786E+01	6.600E+01	3.078E+01	4.245E+01	1.579E+01	2.178E+01	7.773E+02	1.072E+01
60	6.412E+01	8.957E+01	2.896E+01	4.045E+01	1.642E+01	2.294E+01	1.056E+01	1.475E+01	5.420E+02	7.571E+02	2.667E+02	3.726E+02
75	2.918E+01	3.857E+01	1.318E+01	1.742E+01	7.474E+02	9.877E+02	4.807E+02	6.352E+02	2.466E+02	3.259E+02	1.214E+02	1.604E+02
90	1.603E+01	1.858E+01	7.240E+02	8.392E+02	4.106E+02	4.759E+02	2.641E+02	3.061E+02	1.345E+02	1.571E+02	6.668E+03	7.729E+03
120	7.125E+02	4.771E+02	3.218E+02	2.154E+02	1.825E+02	1.221E+02	1.174E+02	7.854E+03	6.022E+03	4.030E+03	2.963E+03	1.983E+03
150	4.604E+02	8.994E+03	2.079E+02	4.052E+03	1.179E+02	2.296E+03	7.583E+03	1.476E+03	3.891E+03	7.571E+03	1.915E+03	3.725E+04
179	4.008E+02	4.841E+05	1.810E+02	1.213E+05	1.027E+02	4.911E+06	6.603E+03	2.567E+06	3.388E+03	1.050E+06	1.667E+03	4.466E+07

CE (58)

(BARNES/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	7.531E+14	7.535E+14	3.350E+14	3.352E+14	1.886E+14	1.887E+14	8.400E+13	8.406E+13	4.734E+13	4.737E+13	3.036E+13	3.038E+13
2	4.708E+13	4.710E+13	2.094E+13	2.096E+13	1.111E+13	1.180E+13	5.251E+12	5.255E+12	2.959E+12	2.962E+12	1.898E+12	1.899E+12
3	9.301E+12	9.307E+12	4.138E+12	4.141E+12	2.330E+12	2.331E+12	1.038E+12	1.038E+12	5.847E+11	5.852E+11	3.750E+11	3.753E+11
4	2.944E+12	2.946E+12	1.310E+12	1.311E+12	7.374E+11	7.380E+11	3.284E+11	3.287E+11	1.851E+11	1.852E+11	1.187E+11	1.188E+11
6	5.821E+11	5.826E+11	2.590E+11	2.592E+11	1.458E+11	1.459E+11	6.493E+10	6.499E+10	3.660E+10	3.664E+10	2.347E+10	2.350E+10
8	1.845E+11	1.846E+11	8.206E+10	8.212E+10	4.620E+10	4.675E+10	2.057E+10	2.060E+10	1.160E+10	1.161E+10	7.436E+09	7.446E+09
10	7.569E+10	7.576E+10	3.367E+10	3.371E+10	1.896E+10	1.898E+10	8.443E+09	8.456E+09	4.758E+09	4.764E+09	3.051E+09	3.057E+09
15	1.505E+10	1.506E+10	6.694E+09	6.699E+09	3.769E+09	3.776E+09	1.678E+09	1.680E+09	9.459E+08	9.487E+08	6.065E+08	6.053E+08
20	4.803E+09	4.807E+09	2.137E+09	2.141E+09	1.203E+09	1.204E+09	5.358E+08	5.375E+08	3.020E+08	3.027E+08	1.936E+08	1.939E+08
30	9.733E+08	9.749E+08	4.330E+08	4.337E+08	2.438E+08	2.447E+08	1.086E+08	1.086E+08	6.119E+07	6.132E+07	3.923E+07	3.951E+07
45	2.036E+08	2.046E+08	9.059E+07	9.052E+07	5.101E+07	5.096E+07	2.271E+07	2.293E+07	1.280E+07	1.296E+07	8.209E+06	8.281E+06
60	6.988E+07	6.946E+07	3.109E+07	3.127E+07	1.750E+07	1.775E+07	7.795E+06	7.856E+06	4.393E+06	4.373E+06	2.817E+06	2.780E+06
75	3.180E+07	3.233E+07	1.415E+07	1.437E+07	7.966E+06	7.941E+06	3.547E+06	3.461E+06	1.999E+06	1.937E+06	1.282E+06	1.246E+06
90	1.747E+07	1.750E+07	7.772E+06	7.514E+06	4.376E+06	4.145E+06	1.949E+06	1.859E+06	1.098E+06	1.066E+06	7.042E+05	6.985E+05
120	7.764E+06	7.376E+06	3.454E+06	3.446E+06	1.945E+06	2.018E+06	8.661E+05	9.514E+05	4.881E+05	5.576E+05	3.130E+05	3.681E+05
150	5.017E+06	6.341E+06	2.232E+06	2.926E+06	1.257E+06	1.688E+06	5.596E+05	7.755E+05	3.154E+05	4.458E+05	2.022E+05	2.898E+05
179	4.368E+06	6.283E+06	1.943E+06	2.856E+06	1.094E+06	1.632E+06	4.872E+05	7.403E+05	2.746E+05	4.221E+05	1.761E+05	2.727E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.555E+13	1.556E+13	7.663E+12	7.669E+12	3.438E+12	3.441E+12	1.952E+12	1.954E+12	8.835E+11	8.847E+11	5.058E+11	5.066E+11
2	9.720E+11	9.729E+11	4.790E+11	4.795E+11	2.149E+11	2.152E+11	1.220E+11	1.222E+11	5.522E+10	5.534E+10	3.162E+10	3.170E+10
3	1.920E+11	1.923E+11	9.464E+10	9.476E+10	4.246E+10	4.254E+10	2.411E+10	2.415E+10	1.091E+10	1.094E+10	6.247E+09	6.271E+09
4	6.078E+10	6.086E+10	2.996E+10	3.001E+10	1.344E+10	1.347E+10	7.630E+09	7.648E+09	3.454E+09	3.467E+09	1.977E+09	1.987E+09
6	1.202E+10	1.204E+10	5.923E+09	5.937E+09	2.657E+09	2.664E+09	1.509E+09	1.514E+09	6.829E+08	6.849E+08	3.910E+08	3.937E+08
8	3.808E+09	3.818E+09	1.677E+09	1.681E+09	8.420E+08	8.444E+08	4.781E+08	4.807E+08	2.164E+08	2.180E+08	1.239E+08	1.249E+08
10	1.563E+09	1.567E+09	7.701E+08	7.719E+08	3.455E+08	3.472E+08	1.962E+08	1.974E+08	8.879E+07	8.955E+07	5.084E+07	5.128E+07
15	3.107E+08	3.112E+08	1.531E+08	1.538E+08	6.869E+07	6.931E+07	3.900E+07	3.936E+07	1.765E+07	1.779E+07	1.011E+07	1.020E+07
20	9.171E+07	9.158E+07	4.887E+07	4.933E+07	2.193E+07	2.214E+07	1.245E+07	1.254E+07	5.635E+06	5.670E+06	3.262E+06	3.262E+06
30	2.009E+07	2.032E+07	9.903E+06	9.982E+06	4.443E+06	4.448E+06	2.523E+06	2.525E+06	1.142E+06	1.156E+06	6.537E+05	6.729E+05
45	4.204E+06	4.200E+06	2.072E+06	2.056E+06	9.296E+05	9.294E+05	5.278E+05	5.366E+05	2.389E+05	2.518E+05	1.368E+05	1.488E+05
60	1.443E+06	1.418E+06	7.110E+05	7.076E+05	3.196E+05	3.240E+05	1.811E+05	1.922E+05	8.197E+04	9.152E+04	4.693E+04	5.436E+04
75	6.566E+05	6.504E+05	3.236E+05	3.318E+05	1.452E+05	1.565E+05	8.242E+04	9.234E+04	3.730E+04	4.406E+04	2.136E+04	2.611E+04
90	3.607E+05	3.724E+05	1.777E+05	1.925E+05	7.975E+04	9.123E+04	4.528E+04	5.373E+04	2.049E+04	2.545E+04	1.173E+04	1.497E+04
120	1.603E+05	1.963E+05	7.900E+04	1.004E+05	3.544E+04	4.660E+04	2.012E+04	2.694E+04	9.108E+03	1.237E+04	5.215E+03	7.088E+03
150	1.036E+05	1.511E+05	5.105E+04	7.543E+04	2.290E+04	3.405E+04	1.300E+04	1.928E+04	5.885E+03	8.574E+03	3.370E+03	4.794E+03
179	9.018E+04	1.409E+05	4.444E+04	6.968E+04	1.994E+04	3.112E+04	1.132E+04	1.748E+04	5.124E+03	7.679E+03	2.944E+03	4.250E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	3.294E+11	3.299E+11	1.737E+11	1.741E+11	8.918E+10	8.942E+10	4.250E+10	4.265E+10	2.545E+10	2.555E+10	1.257E+10	1.263E+10
2	2.059E+10	2.065E+10	1.086E+10	1.090E+10	5.573E+09	5.601E+09	2.657E+09	2.674E+09	1.591E+09	1.607E+09	7.859E+08	7.930E+08
3	4.068E+09	4.086E+09	2.145E+09	2.157E+09	1.101E+09	1.109E+09	5.250E+08	5.296E+08	3.143E+08	3.176E+08	1.553E+08	1.574E+08
4	1.288E+09	1.295E+09	6.790E+08	6.837E+08	3.485E+08	3.515E+08	1.682E+08	1.681E+08	9.947E+07	1.009E+08	4.915E+07	5.003E+07
6	2.546E+08	2.565E+08	1.343E+08	1.355E+08	6.892E+07	6.973E+07	3.285E+07	3.341E+07	1.967E+07	2.009E+07	9.718E+06	9.987E+06
8	3.067E+07	3.137E+07	4.254E+07	4.300E+07	2.184E+07	2.217E+07	1.041E+07	1.065E+07	6.232E+06	6.416E+06	3.079E+06	3.198E+06
10	3.310E+07	3.342E+07	1.745E+07	1.768E+07	8.961E+06	9.139E+06	4.272E+06	4.402E+06	2.557E+06	2.657E+06	1.264E+06	1.328E+06
15	6.580E+06	6.659E+06	3.470E+06	3.542E+06	1.781E+06	1.843E+06	8.492E+05	8.947E+05	5.084E+05	5.428E+05	2.512E+05	2.728E+05
20	2.101E+06	2.139E+06	1.108E+06	1.146E+06	5.687E+05	6.003E+05	2.711E+05	2.935E+05	1.623E+05	1.788E+05	8.019E+04	9.029E+04
30	4.256E+05	4.454E+05	2.245E+05	2.417E+05	1.152E+05	1.241E+05	5.493E+04	6.324E+04	3.288E+04	3.872E+04	1.825E+04	1.966E+04
45	8.906E+04	9.938E+04	4.697E+04	5.448E+04	2.411E+04	2.907E+04	1.149E+04	1.441E+04	6.880E+03	8.288E+03	3.400E+03	4.480E+03
60	3.056E+04	3.388E+04	1.612E+04	1.994E+04	8.273E+03	1.041E+04	3.944E+03	5.227E+03	2.361E+03	3.187E+03	1.167E+03	1.605E+03
75	1.391E+04	1.742E+04	7.334E+03	9.478E+03	3.765E+03	4.842E+03	1.795E+03	2.427E+03	1.074E+03	1.465E+03	5.304E+02	7.268E+02
90	7.640E+03	9.911E+03	4.029E+03	5.324E+03	2.048E+03	2.761E+03	9.866E+02	1.315E+03	5.902E+02	7.414E+02	2.916E+02	3.742E+02
120	3.394E+03	4.592E+03	1.791E+03	2.377E+03	9.192E+02	1.178E+03	4.387E+02	5.281E+02	2.623E+02	2.949E+02	1.246E+02	1.346E+02
150	2.194E+03	3.040E+03	1.157E+03	1.516E+03	5.940E+02	7.157E+02	2.832E+02	2.993E+02	1.695E+02	1.592E+02	8.375E+01	6.412E+01
179	1.910E+03	2.671E+03	1.007E+03	1.311E+03	5.171E+02	6.041E+02	2.465E+02	2.452E+02	1.476E+02	1.262E+02	7.292E+01	4.756E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-00MEV		1.5E-00MEV		2.0E-00MEV	
1	7.712E+09	7.754E+09	5.306E+09	5.337E+09	3.035E+09	3.044E+09	1.479E+09	1.481E+09	6.498E+08	6.444E+08	5.184E+08	5.224E+08
2	4.821E+08	4.870E+08	3.317E+08	3.354E+08	1.847E+08	1.892E+08	1.050E+08	1.063E+08	5.311E+07	5.384E+07	3.244E+07	3.284E+07
3	9.525E+07	9.671E+07	6.554E+07	6.663E+07	3.748E+07	3.817E+07	2.074E+07	2.115E+07	1.048E+07	1.071E+07	6.408E+06	6.544E+06
4	3.015E+07	3.077E+07	2.074E+07	2.121E+07	1.148E+07	1.210E+07	6.863E+06	6.734E+06	3.321E+06	3.415E+06	2.024E+06	2.087E+06
6	5.962E+06	6.152E+06	4.102E+06	4.245E+06	2.344E+06	2.418E+06	1.244E+06	1.352E+06	6.547E+05	6.844E+05	4.011E+05	4.142E+05
8	1.889E+06	1.973E+06	1.300E+06	1.363E+06	7.432E+05	7.814E+05	4.112E+05	4.350E+05	2.081E+05	2.204E+05	1.271E+05	1.350E+05
10	7.751E+05	8.206E+05	5.333E+05	5.674E+05	3.050E+05	3.244E+05	1.487E+05	1.615E+05	4.534E+04	4.821E+04	5.214E+04	5.637E+04
15	1.541E+05	1.692E+05	1.060E+05	1.172E+05	6.043E+04	6.740E+04	3.354E+04	3.744E+04	1.697E+04	1.914E+04	1.037E+04	1.172E+04
20	4.919E+04	5.612E+04	3.384E+04	3.844E+04	1.935E+04	2.250E+04	1.071E+04	1.255E+04	5.419E+03	6.384E+03	3.310E+03	3.810E+03
30	9.967E+03	1.225E+04	6.859E+03	8.513E+03	3.922E+03	4.457E+03	2.170E+03	2.750E+03	1.044E+03	1.441E+03	4.767E+02	5.561E+02
45	2.085E+03	2.784E+03	1.435E+03	1.937E+03	8.284E+02	1.114E+03	4.540E+02	6.242E+02	2.247E+02	3.174E+02	1.463E+02	1.945E+02
60	7.154E+02	9.937E+02	4.924E+02	6.874E+02	2.814E+02	3.943E+02	1.554E+02	2.195E+02	7.843E+01	1.113E+02	4.815E+01	6.800E+01
75	3.257E+02	4.457E+02	2.241E+02	3.061E+02	1.281E+02	1.744E+02	7.400E+01	9.413E+01	3.544E+01	4.847E+01	2.141E+01	2.755E+01
90	1.789E+02	2.889E+02	1.231E+02	1.555E+02	7.039E+01	9.731E+01	3.495E+01	4.753E+01	1.971E+01	2.373E+01	1.264E+01	1.640E+01
120	7.951E+01	7.884E+01	5.471E+01	5.002E+01	3.129E+01	2.845E+01	1.731E+01	1.365E+01	8.754E+00	7.134E+00	5.350E+00	3.844E+00
150	5.138E+01	3.324E+01	3.535E+01	1.987E+01	2.022E+01	9.132E+00	1.114E+01	4.841E+00	5.640E+00	1.444E+00	3.437E+00	4.926E+00
179	4.473E+01	2.301E+01	3.078E+01	1.282E+01	1.740E+01	5.080E+00	9.738E+00	1.884E+00	4.924E+00	5.144E+00	3.010E+00	2.014E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.4E+01MEV	
1	2.544E+08	2.545E+08	1.514E+08	1.528E+08	1.007E+08	1.015E+08	5.379E+07	5.420E+07	2.734E+07	2.755E+07	1.252E+07	1.262E+07
2	1.591E+07	1.614E+07	9.477E+06	9.614E+06	6.248E+06	6.387E+06	3.362E+06	3.411E+06	1.704E+06	1.734E+06	7.874E+05	7.942E+05
3	3.144E+06	3.212E+06	1.873E+06	1.914E+06	1.244E+06	1.271E+06	6.463E+05	6.740E+05	3.377E+05	3.457E+05	1.547E+05	1.581E+05
4	4.952E+05	1.024E+06	5.927E+05	6.103E+05	3.937E+05	4.044E+05	2.103E+05	2.146E+05	1.064E+05	1.101E+05	4.844E+04	5.042E+04
6	1.968E+05	2.058E+05	1.172E+05	1.226E+05	7.745E+04	8.147E+04	4.154E+04	4.352E+04	2.113E+04	2.212E+04	9.840E+03	1.013E+04
8	6.235E+04	6.631E+04	3.713E+04	3.951E+04	2.467E+04	2.645E+04	1.317E+04	1.402E+04	6.497E+03	7.134E+03	3.047E+03	3.266E+03
10	2.559E+04	2.769E+04	1.524E+04	1.650E+04	1.012E+04	1.084E+04	5.064E+03	5.857E+03	2.746E+03	2.974E+03	1.254E+03	1.344E+03
15	5.086E+03	5.754E+03	3.024E+03	3.432E+03	2.012E+03	2.241E+03	1.074E+03	1.214E+03	4.547E+02	4.144E+02	2.542E+02	2.834E+02
20	1.624E+03	1.923E+03	9.670E+02	1.146E+03	6.424E+02	7.617E+02	3.431E+02	4.070E+02	1.744E+02	2.067E+02	7.844E+01	9.474E+01
30	3.290E+02	4.220E+02	1.959E+02	2.510E+02	1.302E+02	1.672E+02	6.452E+01	8.434E+01	3.534E+01	4.543E+01	1.614E+01	2.041E+01
45	6.884E+01	9.559E+01	4.100E+01	5.698E+01	2.723E+01	3.787E+01	1.454E+01	2.023E+01	7.343E+00	1.024E+01	3.346E+00	4.712E+00
60	2.342E+01	3.341E+01	1.407E+01	1.990E+01	9.345E+00	1.352E+01	4.991E+00	7.844E+00	2.537E+00	3.591E+00	1.162E+00	1.645E+00
75	1.075E+01	1.447E+01	6.402E+00	8.614E+00	4.253E+00	6.750E+00	2.271E+00	3.054E+00	1.155E+00	1.557E+00	5.244E+00	7.104E+00
90	5.905E+00	7.025E+00	3.517E+00	4.174E+00	2.336E+00	2.770E+00	1.248E+00	1.477E+00	6.343E+00	7.405E+00	2.405E+00	3.438E+00
120	2.625E+00	1.856E+00	1.563E+00	1.090E+00	1.038E+00	7.201E+00	5.544E+00	3.826E+00	2.814E+00	1.934E+00	1.243E+00	8.866E+00
150	1.646E+00	3.895E+00	1.010E+00	2.201E+00	6.710E+00	1.452E+00	3.593E+00	7.344E+00	1.421E+00	3.701E+00	8.363E+00	1.880E+00
179	1.477E+00	5.075E+00	8.794E+00	1.838E+00	5.842E+00	8.259E+00	3.120E+00	2.344E+00	1.344E+00	4.404E+00	7.264E+00	1.434E+00
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	7.155E+06	7.210E+06	3.231E+06	3.254E+06	1.833E+06	1.847E+06	1.174E+06	1.188E+06	6.048E+05	6.044E+05	2.976E+05	2.984E+05
2	4.473E+05	4.538E+05	2.020E+05	2.049E+05	1.145E+05	1.142E+05	7.364E+04	7.472E+04	3.788E+04	3.835E+04	1.844E+04	1.884E+04
3	8.837E+04	9.033E+04	3.991E+04	4.050E+04	2.263E+04	2.310E+04	1.456E+04	1.484E+04	7.464E+03	7.635E+03	3.674E+03	3.757E+03
4	2.747E+04	2.881E+04	1.263E+04	1.301E+04	7.164E+03	7.379E+03	4.608E+03	4.746E+03	2.384E+03	2.435E+03	1.163E+03	1.198E+03
6	5.531E+03	5.790E+03	2.498E+03	2.615E+03	1.417E+03	1.443E+03	4.111E+02	4.377E+02	4.075E+02	4.444E+02	2.381E+02	2.488E+02
8	1.753E+03	1.866E+03	7.915E+02	8.427E+02	4.488E+02	4.779E+02	2.887E+02	3.074E+02	1.481E+02	1.577E+02	7.244E+01	7.762E+01
10	7.191E+02	7.794E+02	3.248E+02	3.520E+02	1.842E+02	1.994E+02	1.185E+02	1.284E+02	6.074E+01	6.544E+01	2.441E+01	2.622E+01
15	4.340E+02	1.622E+02	6.456E+01	7.324E+01	3.661E+01	4.153E+01	2.355E+01	2.671E+01	1.288E+01	1.371E+01	5.946E+00	6.766E+00
20	4.564E+01	5.414E+01	2.061E+01	2.444E+01	1.169E+01	1.374E+01	7.517E+00	8.921E+00	3.857E+00	4.574E+00	1.844E+00	2.253E+00
30	9.247E+00	1.189E+01	4.176E+00	5.370E+00	2.346E+00	3.045E+00	1.523E+00	1.954E+00	7.014E+00	1.005E+00	3.844E+00	4.944E+00
45	1.935E+00	2.692E+00	8.738E+00	1.216E+00	4.955E+00	6.845E+00	3.187E+00	4.435E+00	1.635E+00	2.274E+00	8.044E+00	1.120E+01
60	6.639E+00	9.398E+00	2.998E+00	4.244E+00	1.700E+00	2.407E+00	1.094E+00	1.548E+00	5.012E+00	7.443E+00	2.762E+00	3.904E+00
75	3.021E+00	4.061E+00	1.365E+00	1.834E+00	7.738E+00	1.640E+00	4.477E+00	6.044E+00	2.554E+00	3.432E+00	1.257E+00	1.844E+00
90	1.660E+00	1.963E+00	7.496E+00	8.864E+00	4.251E+00	5.027E+00	2.734E+00	3.232E+00	1.403E+00	1.654E+00	6.904E+00	8.164E+00
120	7.377E+00	5.063E+00	3.332E+00	2.205E+00	1.849E+00	1.240E+00	1.215E+00	4.333E+00	6.235E+00	4.774E+00	3.044E+00	2.104E+00
150	4.767E+00	9.567E+00	2.153E+00	4.310E+00	1.221E+00	2.444E+00	7.852E+00	1.570E+00	3.508E+00	4.054E+00	1.943E+00	3.463E+00
179	4.150E+00	5.116E+00	1.874E+00	1.284E+00	1.063E+00	5.204E+00	6.034E+00	2.722E+00	3.508E+00	1.115E+00	1.726E+00	4.744E+00

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(BARNES/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	7.793E+14	7.798E+14	3.467E+14	3.469E+14	1.952E+14	1.943E+14	8.693E+13	8.698E+13	4.897E+13	4.902E+13	3.141F+13	3.144E+13
2	4.871E+13	4.874E+13	2.167E+13	2.169E+13	1.220E+13	1.221E+13	5.434E+12	5.438E+12	3.062E+12	3.065F+12	1.964F+12	1.965E+12
3	9.625E+12	9.631E+12	4.282E+12	4.285E+12	2.411E+12	2.413E+12	1.074E+12	1.074E+12	6.051E+11	6.056F+11	3.880F+11	3.883E+11
4	3.046E+12	3.048E+12	1.355E+12	1.356E+12	7.631E+11	7.647E+11	3.398E+11	3.401E+11	1.915E+11	1.917E+11	1.228F+11	1.229E+11
6	6.024E+11	6.028E+11	2.680E+11	2.682E+11	1.509E+11	1.510E+11	6.719E+10	6.725E+10	3.747E+10	3.749E+10	2.478E+10	2.431E+10
8	1.909E+11	1.910E+11	8.491E+10	8.498E+10	4.781E+10	4.786E+10	2.129E+10	2.132E+10	1.200E+10	1.202F+10	7.694F+09	7.704E+09
10	7.832E+10	7.839E+10	3.484E+10	3.488E+10	1.962E+10	1.944E+10	8.736E+09	8.750E+09	4.924E+09	4.930F+09	3.157E+09	3.163E+09
15	1.557E+10	1.558E+10	6.927E+09	6.932E+09	3.900E+09	3.907E+09	1.737E+09	1.739E+09	9.788E+08	9.817E+08	6.276F+08	6.296E+08
20	4.970E+09	4.975E+09	2.211E+09	2.216E+09	1.245E+09	1.246E+09	5.544E+08	5.562E+08	3.125E+08	3.133F+08	2.004F+08	2.006E+08
30	1.007E+09	1.009E+09	4.480E+08	4.486E+08	2.523E+08	2.533E+08	1.123E+08	1.124E+08	6.331E+07	6.342E+07	4.060E+07	4.085E+07
45	2.107E+08	2.116E+08	9.375E+07	9.372E+07	5.278E+07	5.270E+07	2.350E+07	2.371E+07	1.325E+07	1.342F+07	8.495F+06	8.580E+06
60	7.231E+07	7.186E+07	3.217E+07	3.231E+07	1.811E+07	1.837E+07	8.066E+06	8.144E+06	4.546E+06	4.532F+06	2.915F+06	2.879E+06
75	3.291E+07	3.342E+07	1.464E+07	1.490E+07	8.243E+06	8.240E+06	3.671E+06	3.585E+06	2.069E+06	2.002F+06	1.327F+06	1.286E+06
90	1.808E+07	1.818E+07	8.042E+06	8.171E+06	4.528E+06	4.309E+06	2.016E+06	1.917E+06	1.136E+06	1.094F+06	7.287F+05	7.123E+05
120	8.034E+06	7.583E+06	3.574E+06	3.545E+06	2.012E+06	2.078E+06	8.862E+05	9.818E+05	5.051E+05	5.764E+05	3.239E+05	3.809E+05
150	5.192E+06	6.588E+06	2.310E+06	3.044E+06	1.300E+06	1.758E+06	5.791E+05	8.089E+05	3.264E+05	4.655F+05	2.093F+05	3.028E+05
179	4.520E+06	6.567E+06	2.011E+06	2.987E+06	1.132E+06	1.707E+06	5.042E+05	7.754E+05	2.841E+05	4.424E+05	1.822F+05	2.860E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.609E+13	1.610E+13	7.929E+12	7.935E+12	3.558E+12	3.541E+12	2.020E+12	2.022E+12	9.142E+11	9.154F+11	5.234E+11	5.242E+11
2	1.006E+12	1.007E+12	4.957E+11	4.962E+11	2.224E+11	2.227E+11	1.263E+11	1.265E+11	5.715E+10	5.726F+10	3.272E+10	3.280E+10
3	1.987E+11	1.989E+11	9.793E+10	9.806E+10	4.394E+10	4.402E+10	2.495E+10	2.500E+10	1.129E+10	1.132F+10	6.465E+09	6.489E+09
4	6.290E+10	6.297E+10	3.100E+10	3.105E+10	1.391E+10	1.394E+10	7.896E+09	7.914E+09	3.574E+09	3.587E+09	2.046E+09	2.056E+09
6	1.244E+10	1.246E+10	6.129E+09	6.144E+09	2.750E+09	2.757E+09	1.561E+09	1.567E+09	7.066E+08	7.108F+08	4.046E+08	4.075E+08
8	3.941E+09	3.950E+09	1.942E+09	1.947E+09	8.713E+08	8.741E+08	4.937E+08	4.973E+08	2.239E+08	2.256F+08	1.282E+08	1.293E+08
10	1.617E+09	1.622E+09	7.969E+08	7.987E+08	3.575E+08	3.592E+08	2.030E+08	2.045E+08	1.188E+07	1.249F+07	5.261F+07	5.308E+07
15	3.215E+08	3.220E+08	1.584E+08	1.591E+08	7.108E+07	7.173E+07	4.035E+07	4.075E+07	1.826E+07	1.841F+07	1.046F+07	1.055E+07
20	1.026E+08	1.030E+08	5.057E+07	5.104E+07	2.269E+07	2.292E+07	1.288E+07	1.298E+07	5.831E+06	5.867E+06	3.338F+06	3.373E+06
30	2.079E+07	2.104E+07	1.025E+07	1.034E+07	4.598E+06	4.605E+06	2.610E+06	2.612E+06	1.181E+06	1.194F+06	6.744F+05	6.749E+05
45	4.351E+06	4.351E+06	2.144E+06	2.127E+06	9.620E+05	9.600E+05	5.462E+05	5.538E+05	2.472E+05	2.599F+05	1.415F+05	1.536E+05
60	1.493E+06	1.466E+06	7.357E+05	7.303E+05	3.301E+05	3.383E+05	1.874E+05	1.983E+05	8.482E+04	9.455F+04	4.857F+04	5.623E+04
75	6.794E+05	6.706E+05	3.348E+05	3.421E+05	1.502E+05	1.615E+05	8.529E+04	9.540E+04	3.860E+04	4.562F+04	2.210F+04	2.708E+04
90	3.732E+05	3.837E+05	1.839E+05	1.986E+05	8.252E+04	9.434E+04	4.685E+04	5.565E+04	2.121E+04	2.643F+04	1.214F+04	1.557E+04
120	1.659E+05	2.035E+05	8.175E+04	1.043E+05	3.668E+04	4.854E+04	2.082E+04	2.809E+04	9.425E+03	1.292F+04	5.396F+03	7.417E+03
150	1.072E+05	1.580E+05	5.282E+04	7.899E+04	2.370E+04	3.570E+04	1.346E+04	2.023E+04	6.090E+03	9.010E+03	3.887F+03	5.041E+03
179	9.332E+04	1.478E+05	4.599E+04	7.318E+04	2.063E+04	3.271E+04	1.171E+04	1.838E+04	5.302E+03	8.085F+03	3.036F+03	4.477E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	3.408E+11	3.414E+11	1.797E+11	1.801E+11	9.226E+10	9.251E+10	4.398E+10	4.414E+10	2.633E+10	2.644E+10	1.301F+10	1.307E+10
2	2.130E+10	2.137E+10	1.123E+10	1.128E+10	5.767E+09	5.796E+09	2.749E+09	2.767E+09	1.646E+09	1.658E+09	8.132E+08	8.206E+08
3	4.209E+09	4.228E+09	2.220E+09	2.232E+09	1.139E+09	1.147E+09	5.432E+08	5.480E+08	3.252E+08	3.284F+08	1.607E+08	1.628E+08
4	1.332E+09	1.340E+09	7.026E+08	7.075E+08	3.607E+08	3.638E+08	1.719E+08	1.739E+08	1.029E+08	1.044F+08	5.086F+07	5.176E+07
6	2.634E+08	2.655E+08	1.389E+08	1.402E+08	7.131E+07	7.216E+07	3.400E+07	3.456E+07	2.035E+07	2.078F+07	1.006F+07	1.033E+07
8	8.347E+07	8.422E+07	4.402E+07	4.450E+07	2.260E+07	2.294F+07	1.077E+07	1.102E+07	6.449E+06	6.537F+06	3.186E+06	3.309E+06
10	3.425E+07	3.458E+07	1.806E+07	1.829E+07	9.272E+06	9.451E+06	4.820E+06	4.553E+06	2.646E+06	2.748E+06	1.307E+06	1.374E+06
15	6.809E+06	6.888E+06	3.591E+06	3.662E+06	1.843E+06	1.905E+06	8.787E+05	9.250E+05	5.261E+05	5.612F+05	2.599F+05	2.822E+05
20	2.174E+06	2.211E+06	1.146E+06	1.184E+06	5.884E+05	6.203E+05	2.805E+05	3.034E+05	1.679E+05	1.849F+05	8.297E+04	9.344E+04
30	4.404E+05	4.599E+05	2.323E+05	2.496E+05	1.192E+05	1.304E+05	5.684E+04	6.544E+04	3.403E+04	4.010F+04	1.681E+04	2.038E+04
45	9.216E+04	1.027E+05	4.860E+04	5.637E+04	2.495E+04	3.012E+04	1.189E+04	1.495E+04	7.120E+03	9.175F+03	3.518E+03	4.663E+03
60	3.162E+04	3.768E+04	1.668E+04	2.069E+04	8.561E+03	1.103E+04	4.081E+03	5.445E+03	2.443E+03	3.374F+03	1.207F+03	1.677E+03
75	1.439E+04	1.809E+04	7.589E+03	9.864E+03	3.896E+03	5.206E+03	1.857E+03	2.536E+03	1.112E+03	1.533F+03	5.936F+02	7.181E+02
90	7.906E+03	1.032E+04	4.169E+03	5.557E+03	2.140E+03	2.847E+03	1.020E+03	1.378E+03	6.108E+02	9.194F+02	3.018F+02	3.985E+02
120	3.514E+03	4.810E+03	1.853E+03	2.493E+03	9.512E+02	1.277E+03	4.534E+02	5.555E+02	2.715E+02	3.147E+02	1.341E+02	1.419E+02
150	2.270E+03	3.198E+03	1.197E+03	1.596E+03	6.146E+02	7.540E+02	2.930E+02	3.156E+02	1.754E+02	1.679F+02	8.667F+01	8.767E+01
179	1.977E+03	2.815E+03	1.042E+03	1.383E+03	5.351E+02	6.363E+02	2.551E+02	2.587E+02	1.527E+02	1.331F+02	7.546F+01	5.019E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	7.981E+09	8.024E+09	5.491E+09	5.523E+09	3.140E+09	3.140E+09	1.737E+09	1.749E+09	8.792E+08	8.856E+08	5.370E+08	5.410E+08
2	4.989E+08	5.039E+08	3.432E+08	3.470E+08	1.963E+08	1.979E+08	1.086E+08	1.100E+08	5.496E+07	5.571E+07	3.357E+07	3.404E+07
3	9.857E+07	1.001E+08	6.782E+07	6.894E+07	3.878E+07	3.949E+07	2.146E+07	2.188E+07	1.086E+07	1.108E+07	6.632E+06	6.773E+06
4	3.120E+07	3.184E+07	2.147E+07	2.195E+07	1.228E+07	1.258E+07	6.792E+06	6.973E+06	3.437E+06	3.534E+06	2.099E+06	2.160E+06
6	6.169E+06	6.365E+06	4.244E+06	4.392E+06	2.427E+06	2.521E+06	1.343E+06	1.399E+06	6.796E+05	7.094E+05	4.151E+05	4.338E+05
8	1.955E+06	2.041E+06	1.345E+06	1.410E+06	7.691E+05	8.105E+05	4.255E+05	4.502E+05	2.153E+05	2.285E+05	1.315E+05	1.397E+05
10	8.021E+05	8.489E+05	5.519E+05	5.870E+05	3.156E+05	3.378E+05	1.746E+05	1.878E+05	8.836E+04	9.536E+04	5.307E+04	5.834E+04
15	1.594E+05	1.750E+05	1.097E+05	1.213E+05	1.097E+05	1.213E+05	3.471E+04	3.898E+04	1.756E+04	1.982E+04	1.073E+04	1.213E+04
20	5.090E+04	5.810E+04	3.502E+04	4.033E+04	2.003E+04	2.331E+04	1.108E+04	1.300E+04	5.607E+03	6.619E+03	3.425E+03	4.053E+03
30	1.031E+04	1.271E+04	7.096E+03	8.835E+03	4.058E+03	5.116E+03	2.245E+03	2.857E+03	1.136E+03	1.456E+03	6.949E+02	8.917E+02
45	2.158E+03	2.905E+03	1.485E+03	2.018E+03	8.491E+02	1.147E+03	4.698E+02	6.512E+02	2.377E+02	3.315E+02	1.452E+02	2.030E+02
60	7.405E+02	1.039E+03	5.095E+02	7.192E+02	2.914E+02	4.139E+02	1.612E+02	2.299E+02	8.158E+01	1.167E+02	4.983E+01	7.134E+01
75	3.370E+02	4.676E+02	2.319E+02	3.214E+02	1.326E+02	1.873E+02	7.336E+01	1.011E+02	3.712E+01	5.099E+01	2.267E+01	3.109E+01
90	1.851E+02	2.408E+02	1.274E+02	1.637E+02	7.284E+01	9.200E+01	4.030E+01	5.012E+01	2.039E+01	2.504E+01	1.246E+01	1.520E+01
120	8.228E+01	8.110E+01	5.661E+01	5.283E+01	3.237E+01	2.797E+01	1.791E+01	1.445E+01	9.044E+00	6.902E+00	5.536E+00	4.100E+00
150	5.317E+01	3.510E+01	3.658E+01	2.099E+01	2.092E+01	9.656E+00	1.157E+01	4.278E+00	5.857E+00	1.745E+00	3.577E+00	9.470E-01
179	4.629E+01	2.429E+01	3.185E+01	1.353E+01	1.821E+01	5.371E+00	1.008E+01	1.904E+00	5.049E+00	5.432E-01	3.115E+00	2.129E-01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	2.634E+08	2.654E+08	1.569E+08	1.581E+08	1.042E+08	1.050E+08	5.566E+07	5.609E+07	2.829E+07	2.851E+07	1.246E+07	1.266E+07
2	1.647E+07	1.670E+07	9.807E+06	9.948E+06	6.515E+06	6.609E+06	3.479E+06	3.530E+06	1.769E+06	1.794E+06	8.101E+05	8.218E+05
3	3.253E+06	3.324E+06	1.938E+06	1.980E+06	1.287E+06	1.316E+06	6.875E+05	7.026E+05	3.494E+05	3.572E+05	1.601E+05	1.636E+05
4	1.030E+06	1.060E+06	6.133E+05	6.315E+05	4.074E+05	4.195E+05	2.176E+05	2.241E+05	1.106E+05	1.137E+05	5.066E+04	5.218E+04
6	2.036E+05	2.130E+05	1.213E+05	1.269E+05	8.056E+04	8.430E+04	4.302E+04	4.503E+04	2.187E+04	2.289E+04	1.002E+04	1.049E+04
8	6.452E+04	6.862E+04	3.843E+04	4.089E+04	2.553E+04	2.717E+04	1.363E+04	1.451E+04	6.930E+03	7.378E+03	3.174E+03	3.380E+03
10	2.648E+04	2.866E+04	1.577E+04	1.708E+04	1.047E+04	1.135E+04	5.594E+03	6.063E+03	2.844E+03	3.082E+03	1.302E+03	1.412E+03
15	5.263E+03	5.964E+03	3.134E+03	3.555E+03	2.082E+03	2.362E+03	1.112E+03	1.262E+03	5.653E+02	6.417E+02	2.589E+02	2.940E+02
20	1.680E+03	1.993E+03	1.001E+03	1.188E+03	6.647E+02	7.896E+02	3.550E+02	4.219E+02	1.805E+02	2.145E+02	8.265E+01	9.826E+01
30	3.404E+02	4.386E+02	2.028E+02	2.615E+02	1.347E+02	1.718E+02	7.193E+01	9.286E+01	3.656E+01	4.722E+01	1.675E+01	2.163E+01
45	7.123E+01	9.979E+01	4.242E+01	5.948E+01	2.818E+01	3.953E+01	1.505E+01	2.112E+01	7.651E+00	1.074E+01	3.504E+00	4.919E+00
60	2.444E+01	3.503E+01	1.456E+01	2.087E+01	9.670E+00	1.387E+01	5.165E+00	7.406E+00	2.625E+00	3.765E+00	1.202E+00	1.725E+00
75	1.112E+01	1.523E+01	6.625E+00	9.065E+00	4.401E+00	6.020E+00	2.350E+00	3.214E+00	1.195E+00	1.633E+00	5.472E-01	7.481E-01
90	6.111E+00	7.415E+00	3.639E+00	4.406E+00	2.418E+00	2.924E+00	1.291E+00	1.560E+00	6.563E-01	7.924E-01	3.065E-01	3.628E-01
120	2.716E+00	1.961E+00	1.617E+00	1.156E+00	1.974E+00	7.616E-01	5.738E-01	4.058E-01	2.917E-01	2.056E-01	1.336E-01	9.404E-02
150	1.755E+00	4.136E-01	1.045E+00	2.338E-01	6.943E-01	1.511E-01	3.708E-01	7.861E-02	1.885E-01	7.935E-02	8.633E-02	1.786E-02
179	1.528E+00	5.354E-02	9.100E-01	1.940E-02	6.045E-01	8.680E-03	3.228E-01	2.531E-03	1.641E-01	6.762E-04	7.516E-02	1.520E-04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	7.404E+06	7.461E+06	3.344E+06	3.370E+06	1.896E+06	1.911E+06	1.220E+06	1.229E+06	6.258E+05	6.306E+05	3.080E+05	3.103E+05
2	4.628E+05	4.696E+05	2.090E+05	2.121E+05	1.185E+05	1.203E+05	7.624E+04	7.735E+04	3.912E+04	3.969E+04	1.925E+04	1.953E+04
3	9.145E+04	9.347E+04	4.130E+04	4.221E+04	2.342E+04	2.364E+04	1.506E+04	1.540E+04	7.729E+03	7.831E+03	3.804E+03	3.888E+03
4	2.894E+04	2.981E+04	1.307E+04	1.346E+04	7.413E+03	7.635E+03	4.768E+03	4.911E+03	2.446E+03	2.570E+03	1.204E+03	1.240E+03
6	5.723E+03	5.991E+03	2.585E+03	2.706E+03	1.466E+03	1.514E+03	9.428E+02	9.869E+02	4.837E+02	5.064E+02	2.381E+02	2.492E+02
8	1.813E+03	1.931E+03	8.190E+02	8.721E+02	4.644E+02	4.946E+02	2.987E+02	3.181E+02	1.533E+02	1.632E+02	7.543E+01	8.032E+01
10	7.442E+02	8.067E+02	3.361E+02	3.643E+02	1.906E+02	2.046E+02	1.226E+02	1.329E+02	6.290E+01	6.818E+01	3.095E+01	3.355E+01
15	1.479E+02	1.680E+02	6.681E+01	7.585E+01	3.789E+01	4.302E+01	2.437E+01	2.767E+01	1.250E+01	1.420E+01	6.153E+00	6.986E+00
20	4.722E+01	5.615E+01	2.133E+01	2.536E+01	1.209E+01	1.418E+01	7.779E+00	9.249E+00	3.991E+00	4.746E+00	1.964E+00	2.335E+00
30	9.569E+00	1.236E+01	4.321E+00	5.582E+00	2.451E+00	3.145E+00	1.576E+00	2.036E+00	8.088E-01	1.045E+00	3.980E-01	5.141E-01
45	2.002E+00	2.811E+00	9.042E-01	1.269E+00	5.128E-01	7.199E-01	3.298E-01	4.630E-01	1.692E-01	2.374E-01	8.328E-02	1.169E-01
60	6.870E-01	9.854E-01	3.103E-01	4.450E-01	1.760E-01	2.524E-01	1.132E-01	1.623E-01	5.807E-02	8.329E-02	2.858E-02	4.099E-02
75	3.127E-01	4.274E-01	1.412E-01	1.930E-01	8.007E-02	1.095E-01	5.150E-02	7.040E-02	2.643E-02	3.612E-02	1.300E-02	1.778E-02
90	1.718E-01	2.073E-01	7.757E-02	9.359E-02	4.399E-02	5.307E-02	2.829E-02	3.414E-02	1.452E-02	1.751E-02	7.144E-03	8.619E-03
120	7.634E-02	5.370E-02	3.447E-02	2.424E-02	1.955E-02	1.374E-02	1.257E-02	8.839E-03	6.452E-03	4.535E-03	3.175E-03	2.232E-03
150	4.933E-02	1.017E-02	2.228E-02	4.584E-03	1.263E-02	2.579E-03	8.125E-03	1.670E-03	4.169E-03	8.565E-04	2.052E-03	4.214E-04
179	4.295E-02	5.407E-05	1.939E-02	1.359E-05	1.100E-02	5.514E-06	7.074E-03	2.887E-06	3.630E-03	1.184E-06	1.786E-03	5.047E-07

ND (60)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	8.059E+14	8.064E+14	3.585E+14	3.588E+14	2.019E+14	2.020E+14	8.990E+13	8.995E+13	5.067E+13	5.070E+13	3.249E+13	3.251E+13
2	5.038E+13	5.041E+13	2.241E+13	2.243E+13	1.262E+13	1.263E+13	5.619E+12	5.623E+12	3.167E+12	3.169E+12	2.031E+12	2.033E+12
3	9.954E+12	9.960E+12	4.428E+12	4.431E+12	2.493E+12	2.495E+12	1.110E+12	1.111E+12	6.258E+11	6.263E+11	4.013E+11	4.016E+11
4	3.151E+12	3.153E+12	1.402E+12	1.403E+12	7.892E+11	7.898E+11	3.514E+11	3.517E+11	1.981E+11	1.982E+11	1.270E+11	1.271E+11
6	6.230E+11	6.234E+11	2.771E+11	2.774E+11	1.560E+11	1.562E+11	6.949E+10	6.956E+10	3.916E+10	3.921E+10	2.511E+10	2.515E+10
8	1.974E+11	1.975E+11	8.782E+10	8.789E+10	4.944E+10	4.950E+10	2.202E+10	2.204E+10	1.241E+10	1.243E+10	7.957E+09	7.967E+09
10	8.100E+10	8.106E+10	3.604E+10	3.607E+10	2.029E+10	2.031E+10	9.035E+09	9.050E+09	5.092E+09	5.098E+09	3.265E+09	3.271E+09
15	1.610E+10	1.611E+10	7.163E+09	7.169E+09	4.033E+09	4.040E+09	1.796E+09	1.798E+09	1.012E+09	1.015E+09	6.491E+08	6.512E+08
20	5.140E+09	5.146E+09	2.287E+09	2.291E+09	1.288E+09	1.289E+09	5.734E+08	5.751E+08	3.231E+08	3.241E+08	2.072E+08	2.075E+08
30	1.042E+09	1.044E+09	4.634E+08	4.637E+08	2.609E+08	2.619E+08	1.162E+08	1.163E+08	6.548E+07	6.555E+07	4.199E+07	4.222E+07
45	2.179E+08	2.188E+08	9.695E+07	9.700E+07	5.459E+07	5.447E+07	2.431E+07	2.450E+07	1.370E+07	1.388E+07	8.785E+06	8.884E+06
60	7.478E+07	7.433E+07	3.327E+07	3.336E+07	1.873E+07	1.899E+07	8.341E+06	8.437E+06	4.701E+06	4.696E+06	3.015E+06	2.981E+06
75	3.403E+07	3.452E+07	1.514E+07	1.544E+07	8.524E+06	8.566E+06	3.796E+06	3.712E+06	2.139E+06	2.070E+06	1.372E+06	1.328E+06
90	1.870E+07	1.887E+07	8.317E+06	8.077E+06	4.683E+06	4.456E+06	2.095E+06	1.976E+06	1.175E+06	1.131E+06	7.538E+05	7.402E+05
120	8.309E+06	7.791E+06	3.696E+06	3.643E+06	2.081E+06	2.138E+06	9.288E+05	1.012E+06	5.223E+05	5.953E+05	3.349E+05	3.939E+05
150	5.369E+06	6.840E+06	2.389E+06	3.165E+06	1.345E+06	1.840E+06	5.989E+05	8.432E+05	3.375E+05	4.857E+05	2.164E+05	3.162E+05
179	4.674E+06	6.860E+06	2.080E+06	3.123E+06	1.171E+06	1.786E+06	5.214E+05	8.118E+05	2.939E+05	4.634E+05	1.884E+05	2.997E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.664E+13	1.665E+13	8.200E+12	8.207E+12	3.679E+12	3.682E+12	2.089E+12	2.091E+12	9.454E+11	9.467E+11	5.413E+11	5.421E+11
2	1.040E+12	1.041E+12	5.126E+11	5.131E+11	2.300E+11	2.303E+11	1.306E+11	1.308E+11	5.910E+10	5.921E+10	3.384E+10	3.392E+10
3	2.055E+11	2.057E+11	1.013E+11	1.014E+11	4.544E+10	4.552E+10	2.580E+10	2.585E+10	1.168E+10	1.171E+10	6.686E+09	6.710E+09
4	6.505E+10	6.513E+10	3.206E+10	3.211E+10	1.438E+10	1.441E+10	8.166E+09	8.185E+09	3.696E+09	3.709E+09	2.116E+09	2.127E+09
6	1.286E+10	1.288E+10	6.333E+09	6.354E+09	2.844E+09	2.841E+09	1.615E+09	1.620E+09	7.308E+08	7.351E+08	4.184E+08	4.214E+08
8	4.075E+09	4.085E+09	2.008E+09	2.013E+09	9.011E+08	9.039E+08	5.116E+08	5.143E+08	2.316E+08	2.334E+08	1.326E+08	1.337E+08
10	1.672E+09	1.677E+09	8.242E+08	8.260E+08	3.698E+08	3.714E+08	2.099E+08	2.115E+08	9.502E+07	9.589E+07	5.460E+07	5.491E+07
15	3.324E+08	3.331E+08	1.638E+08	1.645E+08	7.351E+07	7.419E+07	4.173E+07	4.216E+07	1.889E+07	1.905E+07	1.081E+07	1.091E+07
20	1.061E+08	1.065E+08	5.230E+07	5.277E+07	2.347E+07	2.372E+07	1.332E+07	1.343E+07	6.030E+06	6.068E+06	3.453E+06	3.486E+06
30	2.150E+07	2.176E+07	1.060E+07	1.070E+07	4.755E+06	4.766E+06	2.700E+06	2.701E+06	1.222E+06	1.233E+06	6.996E+05	7.172E+05
45	4.499E+06	4.506E+06	2.217E+06	2.200E+06	9.948E+05	9.911E+05	5.648E+05	5.712E+05	2.556E+05	2.600E+05	1.464E+05	1.585E+05
60	1.544E+06	1.515E+06	7.609E+05	7.534E+05	3.414E+05	3.447E+05	1.338E+05	2.045E+05	8.772E+04	9.769E+04	5.023E+04	5.812E+04
75	7.026E+05	6.910E+05	3.463E+05	3.523E+05	1.554E+05	1.665E+05	8.820E+04	9.848E+04	3.992E+04	4.720E+04	2.286E+04	2.807E+04
90	3.860E+05	3.950E+05	1.902E+05	2.047E+05	8.534E+04	9.746E+04	4.845E+04	5.760E+04	2.193E+04	2.742E+04	1.256E+04	1.610E+04
120	1.715E+05	2.109E+05	8.454E+04	1.083E+05	3.793E+04	5.051E+04	2.154E+04	2.928E+04	9.747E+03	1.350E+04	5.581E+03	7.757E+03
150	1.109E+05	1.652E+05	5.463E+04	8.267E+04	2.451E+04	3.742E+04	1.392E+04	2.122E+04	6.294E+03	9.462E+03	3.606E+03	5.288E+03
179	9.651E+04	1.550E+05	4.756E+04	7.682E+04	2.134E+04	3.447E+04	1.212E+04	1.933E+04	5.484E+03	8.508E+03	3.140E+03	4.715E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	3.525E+11	3.531E+11	1.859E+11	1.863E+11	9.541E+10	9.548E+10	4.549E+10	4.565E+10	2.723E+10	2.734E+10	1.345E+10	1.352E+10
2	2.203E+10	2.210E+10	1.162E+10	1.167E+10	5.964E+09	5.994E+09	2.843E+09	2.861E+09	1.702E+09	1.715E+09	8.410E+08	8.486E+08
3	4.353E+09	4.373E+09	2.296E+09	2.309E+09	1.178E+09	1.187E+09	5.618E+08	5.667E+08	3.363E+08	3.379E+08	1.662E+08	1.684E+08
4	1.378E+09	1.386E+09	7.266E+08	7.317E+08	3.730E+08	3.742E+08	1.778E+08	1.798E+08	1.064E+08	1.079E+08	5.260E+07	5.352E+07
6	2.724E+08	2.746E+08	1.437E+08	1.450E+08	7.375E+07	7.462E+07	3.516E+07	3.574E+07	2.105E+07	2.149E+07	1.040E+07	1.068E+07
8	8.633E+07	8.712E+07	4.553E+07	4.602E+07	2.337E+07	2.372E+07	1.114E+07	1.139E+07	6.669E+06	6.861E+06	3.295E+06	3.420E+06
10	3.542E+07	3.577E+07	1.868E+07	1.892E+07	9.589E+06	9.770E+06	4.572E+06	4.708E+06	2.737E+06	2.841E+06	1.352E+06	1.420E+06
15	7.042E+06	7.121E+06	3.714E+06	3.785E+06	1.906E+06	1.968E+06	9.088E+05	9.557E+05	5.440E+05	5.800E+05	2.688E+05	2.918E+05
20	2.248E+06	2.284E+06	1.186E+06	1.222E+06	6.086E+05	6.406E+05	2.901E+05	3.135E+05	1.737E+05	1.911E+05	8.581E+04	9.664E+04
30	4.555E+05	4.746E+05	2.402E+05	2.577E+05	1.233E+05	1.368E+05	5.878E+04	6.767E+04	3.519E+04	4.150E+04	1.739E+04	2.111E+04
45	9.531E+04	1.060E+05	5.026E+04	5.827E+04	2.580E+04	3.119E+04	1.230E+04	1.551E+04	7.363E+03	9.582E+03	3.638E+03	4.849E+03
60	3.270E+04	3.900E+04	1.725E+04	2.146E+04	8.853E+03	1.146E+04	4.221E+03	5.669E+03	2.527E+03	3.465E+03	1.248E+03	1.750E+03
75	1.488E+04	1.877E+04	7.849E+03	1.026E+04	4.029E+03	5.425E+03	1.921E+03	2.649E+03	1.150E+03	1.603E+03	5.681E+02	7.980E+02
90	8.176E+03	1.075E+04	4.312E+03	5.796E+03	2.213E+03	3.017E+03	1.055E+03	1.443E+03	6.317E+02	8.597E+02	3.121E+02	4.186E+02
120	3.634E+03	5.035E+03	1.916E+03	2.614E+03	9.837E+02	1.298E+03	4.689E+02	5.840E+02	2.807E+02	3.312E+02	1.387E+02	1.495E+02
150	2.348E+03	3.363E+03	1.238E+03	1.680E+03	6.356E+02	7.748E+02	3.030E+02	3.326E+02	1.614E+02	1.770E+02	8.943E+01	1.140E+01
179	2.044E+03	2.965E+03	1.078E+03	1.457E+03	5.534E+02	6.741E+02	2.638E+02	2.729E+02	1.574E+02	1.405E+02	7.803E+01	5.295E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	8.253E+09	8.298E+09	5.679E+09	5.712E+09	3.247E+09	3.248E+09	1.797E+09	1.809E+09	9.092E+08	9.156E+08	5.553E+08	5.595E+08
2	5.159E+08	5.212E+08	3.550E+08	3.589E+08	2.030E+08	2.045E+08	1.123E+08	1.138E+08	5.683E+07	5.761E+07	3.471E+07	3.520E+07
3	1.019E+08	1.035E+08	7.014E+07	7.130E+07	4.011E+07	4.089E+07	2.219E+07	2.263E+07	1.123E+07	1.146E+07	6.859E+06	7.005E+06
4	3.226E+07	3.292E+07	2.220E+07	2.269E+07	1.270E+07	1.301E+07	7.024E+06	7.211E+06	3.554E+06	3.656E+06	2.071E+06	2.233E+06
6	6.380E+06	6.581E+06	4.390E+06	4.541E+06	2.510E+06	2.607E+06	1.389E+06	1.446E+06	7.024E+05	7.336E+05	4.293E+05	4.486E+05
8	2.021E+06	2.111E+06	1.391E+06	1.458E+06	7.954E+05	8.381E+05	4.401E+05	4.655E+05	2.227E+05	2.343E+05	1.360E+05	1.445E+05
10	8.295E+05	8.776E+05	5.707E+05	6.069E+05	3.264E+05	3.493E+05	1.806E+05	1.942E+05	9.138E+04	9.863E+04	5.591E+04	6.036E+04
15	1.649E+05	1.810E+05	1.135E+05	1.254E+05	6.488E+04	7.239E+04	3.590E+04	4.033E+04	1.817E+04	2.051E+04	1.110E+04	1.256E+04
20	5.264E+04	6.011E+04	3.622E+04	4.174E+04	2.071E+04	2.413E+04	1.146E+04	1.346E+04	5.799E+03	6.855E+03	3.542E+03	4.199E+03
30	1.067E+04	1.317E+04	7.339E+03	9.163E+03	4.197E+03	5.308E+03	2.322E+03	2.966E+03	1.175E+03	1.511E+03	7.177E+02	9.268E+02
45	2.232E+03	3.024E+03	1.536E+03	2.102E+03	8.781E+02	1.216E+03	4.658E+02	6.789E+02	2.459E+02	3.457E+02	1.502E+02	2.117E+02
60	7.658E+02	1.086E+03	5.269E+02	7.520E+02	3.013E+02	4.331E+02	1.667E+02	2.407E+02	8.436E+01	1.222E+02	5.153E+01	7.474E+01
75	3.485E+02	4.903E+02	2.398E+02	3.372E+02	1.371E+02	1.925E+02	7.587E+01	1.062E+02	3.439E+01	5.369E+01	2.345E+01	3.270E+01
90	1.915E+02	2.532E+02	1.317E+02	1.723E+02	7.533E+01	9.649E+01	4.188E+01	5.282E+01	2.109E+01	2.649E+01	1.288E+01	1.603E+01
120	8.509E+01	8.557E+01	5.855E+01	5.578E+01	3.348E+01	2.957E+01	1.855E+01	1.529E+01	9.374E+00	7.310E+00	5.775E+00	4.343E+00
150	5.498E+01	3.705E+01	3.783E+01	2.217E+01	2.163E+01	1.021E+01	1.197E+01	4.328E+00	6.057E+00	1.859E+00	3.700E+00	1.005E+00
179	4.787E+01	2.562E+01	3.294E+01	1.427E+01	1.884E+01	5.646E+00	1.042E+01	2.008E+00	5.274E+00	5.731E+01	3.271E+00	2.246E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	2.724E+08	2.745E+08	1.623E+08	1.635E+08	1.078E+08	1.086E+08	5.756E+07	5.801E+07	2.926E+07	2.949E+07	1.340E+07	1.351E+07
2	1.703E+07	1.727E+07	1.014E+07	1.029E+07	6.738E+06	6.845E+06	3.598E+06	3.651E+06	1.829E+06	1.856E+06	8.378E+05	8.500E+05
3	3.365E+06	3.438E+06	2.004E+06	2.048E+06	1.331E+06	1.360E+06	7.110E+05	7.266E+05	3.614E+05	3.694E+05	1.655E+05	1.692E+05
4	1.065E+06	1.090E+06	6.343E+05	6.531E+05	4.214E+05	4.339E+05	2.250E+05	2.317E+05	1.144E+05	1.178E+05	5.239E+04	5.396E+04
6	2.106E+05	2.202E+05	1.254E+05	1.312E+05	8.331E+04	8.710E+04	4.450E+04	4.657E+04	2.262E+04	2.367E+04	1.036E+04	1.084E+04
8	6.672E+04	7.097E+04	3.974E+04	4.229E+04	2.640E+04	2.810E+04	1.410E+04	1.501E+04	7.167E+03	7.631E+03	3.243E+03	3.495E+03
10	2.738E+04	2.964E+04	1.631E+04	1.767E+04	1.083E+04	1.174E+04	5.785E+03	6.271E+03	2.941E+03	3.188E+03	1.367E+03	1.440E+03
15	5.443E+03	6.172E+03	3.242E+03	3.579E+03	2.153E+03	2.445E+03	1.150E+03	1.306E+03	5.846E+02	6.642E+02	2.674E+02	3.042E+02
20	1.738E+03	2.065E+03	1.035E+03	1.231E+03	6.874E+02	8.140E+02	3.671E+02	4.371E+02	1.866E+02	2.222E+02	8.544E+01	1.018E+02
30	3.521E+02	4.555E+02	2.097E+02	2.716E+02	1.393E+02	1.805E+02	7.439E+01	9.645E+01	3.781E+01	4.904E+01	1.732E+01	2.247E+01
45	7.366E+01	1.041E+02	4.387E+01	6.206E+01	2.914E+01	4.125E+01	1.557E+01	2.204E+01	7.912E+00	1.129E+01	3.624E+00	5.133E+00
60	2.528E+01	3.670E+01	1.505E+01	2.187E+01	1.000E+01	1.453E+01	5.341E+00	7.761E+00	2.715E+00	3.944E+00	1.244E+00	1.807E+00
75	1.150E+01	1.602E+01	6.851E+00	9.535E+00	4.551E+00	6.332E+00	2.431E+00	3.381E+00	1.234E+00	1.718E+00	5.659E+00	7.870E+00
90	6.319E+00	7.824E+00	3.764E+00	4.650E+00	2.500E+00	3.085E+00	1.335E+00	1.646E+00	6.787E+00	8.362E+00	3.109E+00	3.829E+00
120	2.809E+00	2.079E+00	1.673E+00	1.225E+00	1.111E+00	8.095E+00	5.935E+00	4.302E+00	3.017E+00	2.180E+00	1.382E+00	9.971E+00
150	1.815E+00	4.392E+01	1.081E+00	2.484E+01	7.180E+01	1.606E+01	3.835E+01	8.355E+02	1.940E+01	4.182E+02	8.928E+02	1.899E+02
179	1.580E+00	5.648E+02	9.411E+01	2.046E+02	6.252E+01	9.157E+03	3.339E+01	2.671E+03	1.697E+01	7.136E+04	7.773E+02	1.605E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	7.657E+06	7.717E+06	3.458E+06	3.485E+06	1.961E+06	1.979E+06	1.261E+06	1.271E+06	6.472E+05	6.522E+05	3.185E+05	3.210E+05
2	4.787E+05	4.856E+05	2.162E+05	2.193E+05	1.226E+05	1.244E+05	7.885E+04	8.000E+04	4.046E+04	4.105E+04	1.991E+04	2.020E+04
3	9.457E+04	9.667E+04	4.271E+04	4.366E+04	2.422E+04	2.479E+04	1.558E+04	1.592E+04	7.993E+03	8.171E+03	3.936E+03	4.021E+03
4	2.993E+04	3.083E+04	1.352E+04	1.392E+04	7.666E+03	7.896E+03	4.931E+03	5.079E+03	2.530E+03	2.606E+03	1.245E+03	1.282E+03
6	5.919E+03	6.196E+03	2.673E+03	2.798E+03	1.516E+03	1.587E+03	9.750E+02	1.021E+03	5.003E+02	5.237E+02	2.462E+02	2.577E+02
8	1.875E+03	1.997E+03	8.470E+02	9.019E+02	4.803E+02	5.115E+02	3.089E+02	3.290E+02	1.595E+02	1.688E+02	7.801E+01	8.307E+01
10	7.694E+02	8.344E+02	3.476E+02	3.768E+02	1.971E+02	2.137E+02	1.268E+02	1.374E+02	6.505E+01	7.053E+01	3.201E+01	3.471E+01
15	1.530E+02	1.736E+02	6.909E+01	7.851E+01	3.918E+01	4.458E+01	2.520E+01	2.864E+01	1.293E+01	1.469E+01	6.363E+00	7.231E+00
20	8.884E+01	5.817E+01	2.206E+01	2.527E+01	1.251E+01	1.490E+01	8.045E+00	9.582E+00	4.128E+00	4.917E+00	2.031E+00	2.420E+00
30	9.896E+00	1.284E+01	4.469E+00	5.798E+00	2.534E+00	3.288E+00	1.630E+00	2.115E+00	8.364E+00	1.085E+00	4.116E+00	5.340E+00
45	2.671E+00	2.933E+00	9.351E+00	1.325E+00	5.303E+01	7.512E+01	3.111E+01	4.831E+01	1.750E+01	2.479E+01	8.612E+00	1.220E+01
60	7.105E+01	1.033E+00	3.209E+01	4.664E+01	1.820E+01	2.645E+01	1.170E+01	1.701E+01	6.005E+02	8.728E+02	2.955E+02	4.295E+02
75	3.233E+01	4.496E+01	1.460E+01	2.031E+01	8.281E+02	1.152E+01	5.326E+02	7.406E+02	2.733E+02	3.808E+02	1.345E+02	1.870E+02
90	7.894E+02	5.693E+02	3.565E+02	2.570E+02	4.549E+02	5.601E+02	2.926E+02	3.602E+02	1.501E+02	1.848E+02	7.388E+03	9.096E+03
120	5.101E+02	1.082E+02	2.304E+02	4.873E+03	2.022E+02	1.457E+02	1.300E+02	9.372E+03	6.673E+03	4.809E+03	3.284E+03	2.366E+03
150	5.101E+02	1.082E+02	2.304E+02	4.873E+03	1.306E+02	2.761E+02	8.403E+03	1.775E+03	4.312E+03	9.106E+04	2.122E+03	4.480E+04
179	4.441E+02	5.713E+05	2.006E+02	1.438E+05	1.137E+02	5.840E+06	7.316E+03	3.061E+06	5.754E+03	1.257E+06	1.841E+03	5.363E+07

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	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	8.330E+14	8.335E+14	3.706E+14	3.708E+14	2.08E+14	2.08E+14	9.292E+13	9.298E+13	5.237E+13	5.240E+13	3.358E+13	3.360E+13
2	5.207E+13	5.210E+13	2.317E+13	2.318E+13	1.308E+13	1.305E+13	5.808E+12	5.812E+12	3.274E+12	3.276E+12	2.099E+12	2.101E+12
3	1.029E+13	1.029E+13	4.577E+12	4.580E+12	2.577E+12	2.579E+12	1.148E+12	1.149E+12	6.468E+11	6.474E+11	4.147E+11	4.151E+11
4	3.256E+12	3.259E+12	1.449E+12	1.450E+12	8.157E+11	8.143E+11	3.632E+11	3.636E+11	2.047E+11	2.049E+11	1.313E+11	1.314E+11
6	4.439E+11	6.443E+11	2.865E+11	2.867E+11	1.613E+11	1.614E+11	7.182E+10	7.190E+10	4.048E+10	4.053E+10	2.596E+10	2.599E+10
8	2.040E+11	2.042E+11	9.077E+10	9.085E+10	5.111E+10	5.116E+10	2.276E+10	2.278E+10	1.283E+10	1.285E+10	8.225E+09	8.235E+09
10	8.372E+10	8.378E+10	3.725E+10	3.728E+10	2.097E+10	2.099E+10	9.339E+09	9.354E+09	5.263E+09	5.270E+09	3.375E+09	3.381E+09
15	1.664E+10	1.665E+10	7.404E+09	7.411E+09	4.165E+09	4.176E+09	1.856E+09	1.858E+09	1.046E+09	1.049E+09	6.709E+08	6.732E+08
20	5.313E+09	5.320E+09	2.364E+09	2.368E+09	1.331E+09	1.332E+09	5.926E+08	5.943E+08	3.340E+08	3.352E+08	2.142E+08	2.145E+08
30	1.077E+09	1.079E+09	4.789E+08	4.792E+08	2.697E+08	2.707E+08	1.201E+08	1.202E+08	6.768E+07	6.772E+07	4.360E+07	4.361E+07
45	2.253E+08	2.260E+08	1.002E+08	1.003E+08	5.642E+07	5.658E+07	2.513E+07	2.530E+07	1.416E+07	1.435E+07	9.080E+06	9.193E+06
60	7.729E+07	7.685E+07	3.439E+07	3.443E+07	1.936E+07	1.942E+07	8.622E+06	8.735E+06	4.859E+06	4.863E+06	3.116E+06	3.085E+06
75	3.518E+07	3.562E+07	1.565E+07	1.598E+07	8.811E+06	8.879E+06	3.924E+06	3.843E+06	2.211E+06	2.138E+06	1.418E+06	1.370E+06
90	1.932E+07	1.958E+07	8.597E+06	8.371E+06	4.840E+06	4.608E+06	2.155E+06	2.036E+06	1.215E+06	1.144E+06	7.790E+05	7.613E+05
120	8.588E+06	7.998E+06	3.821E+06	3.741E+06	2.151E+06	2.148E+06	9.580E+05	1.043E+06	5.399E+05	6.142E+05	3.462E+05	4.070E+05
150	5.549E+06	7.096E+06	2.469E+06	3.289E+06	1.390E+06	1.903E+06	6.190E+05	8.784E+05	3.489E+05	5.065E+05	2.237E+05	3.300E+05
179	4.832E+06	7.162E+06	2.149E+06	3.263E+06	1.210E+06	1.847E+06	5.389E+05	8.494E+05	3.037E+05	4.852E+05	1.948E+05	3.140E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.720E+13	1.721E+13	8.476E+12	8.483E+12	3.803E+12	3.806E+12	2.154E+12	2.161E+12	9.772E+11	9.785E+11	5.595E+11	5.603E+11
2	1.075E+12	1.076E+12	5.298E+11	5.304E+11	2.377E+11	2.380E+11	1.350E+11	1.352E+11	6.109E+10	6.121E+10	3.497E+10	3.506E+10
3	2.124E+11	2.127E+11	1.047E+11	1.048E+11	4.697E+10	4.705E+10	2.667E+10	2.672E+10	1.207E+10	1.210E+10	6.918E+09	6.936E+09
4	6.723E+10	6.732E+10	3.313E+10	3.319E+10	1.487E+10	1.490E+10	8.440E+09	8.460E+09	3.820E+09	3.834E+09	2.187E+09	2.198E+09
6	1.329E+10	1.331E+10	6.552E+09	6.568E+09	2.939E+09	2.947E+09	1.669E+09	1.674E+09	7.554E+08	7.569E+08	4.325E+08	4.357E+08
8	4.212E+09	4.222E+09	2.076E+09	2.081E+09	9.314E+08	9.342E+08	5.288E+08	5.315E+08	2.393E+08	2.413E+08	1.378E+08	1.383E+08
10	1.729E+09	1.734E+09	8.519E+08	8.539E+08	3.822E+08	3.848E+08	2.170E+08	2.186E+08	9.821E+07	9.913E+07	5.623E+07	5.677E+07
15	3.436E+08	3.443E+08	1.693E+08	1.700E+08	7.598E+07	7.648E+07	4.314E+07	4.359E+07	1.952E+07	1.970E+07	1.118E+07	1.128E+07
20	1.097E+08	1.100E+08	5.406E+07	5.453E+07	2.425E+07	2.453E+07	1.377E+07	1.390E+07	6.233E+06	6.273E+06	3.569E+06	3.601E+06
30	2.223E+07	2.249E+07	1.095E+07	1.108E+07	4.915E+06	4.970E+06	2.790E+06	2.791E+06	1.263E+06	1.273E+06	7.231E+05	7.398E+05
45	4.651E+06	4.664E+06	2.292E+06	2.275E+06	1.028E+06	1.023E+06	5.838E+05	5.889E+05	2.642E+05	2.747E+05	1.513E+05	1.634E+05
60	1.596E+06	1.565E+06	7.865E+05	7.768E+05	3.528E+05	3.592E+05	2.003E+05	2.106E+05	9.047E+04	1.007E+05	5.191E+04	6.003E+04
75	7.262E+05	7.116E+05	3.579E+05	3.627E+05	1.606E+05	1.716E+05	9.117E+04	1.016E+05	4.126E+04	4.879E+04	2.363E+04	2.907E+04
90	3.990E+05	4.063E+05	1.966E+05	2.109E+05	8.821E+04	1.006E+05	5.088E+04	5.956E+04	2.267E+04	2.843E+04	1.298E+04	1.681E+04
120	1.773E+05	2.184E+05	8.738E+04	1.124E+05	3.921E+04	5.253E+04	2.226E+04	3.050E+04	1.007E+04	1.408E+04	5.788E+03	8.108E+03
150	1.146E+05	1.726E+05	5.646E+04	8.648E+04	2.533E+04	3.919E+04	1.438E+04	2.225E+04	6.510E+03	9.933E+03	3.727E+03	5.566E+03
179	9.976E+04	1.625E+05	4.916E+04	8.061E+04	2.206E+04	3.610E+04	1.252E+04	2.032E+04	5.668E+03	8.951E+03	3.245E+03	4.963E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	3.643E+11	3.649E+11	1.921E+11	1.925E+11	9.862E+10	9.889E+10	4.702E+10	4.718E+10	2.815E+10	2.826E+10	1.391E+10	1.397E+10
2	2.277E+10	2.284E+10	1.201E+10	1.206E+10	6.165E+09	6.196E+09	2.939E+09	2.957E+09	1.759E+09	1.772E+09	8.693E+08	8.772E+08
3	4.499E+09	4.520E+09	2.373E+09	2.386E+09	1.218E+09	1.227E+09	5.557E+08	5.585E+08	3.476E+08	3.513E+08	1.718E+08	1.740E+08
4	1.424E+09	1.433E+09	7.511E+08	7.564E+08	3.855E+08	3.889E+08	1.838E+08	1.859E+08	1.100E+08	1.115E+08	5.436E+07	5.532E+07
6	2.816E+08	2.839E+08	1.485E+08	1.499E+08	7.623E+07	7.713E+07	3.634E+07	3.693E+07	2.176E+07	2.220E+07	1.075E+07	1.104E+07
8	8.923E+07	9.007E+07	4.706E+07	4.757E+07	2.415E+07	2.451E+07	1.152E+07	1.177E+07	6.894E+06	7.089E+06	3.406E+06	3.534E+06
10	3.661E+07	3.698E+07	1.931E+07	1.955E+07	9.912E+06	1.009E+07	4.725E+06	4.861E+06	2.829E+06	2.934E+06	1.398E+06	1.467E+06
15	7.279E+06	7.359E+06	3.838E+06	3.909E+06	1.970E+06	2.002E+06	9.393E+05	9.868E+05	5.623E+05	5.949E+05	2.778E+05	2.914E+05
20	2.324E+06	2.358E+06	1.225E+06	1.262E+06	6.290E+05	6.612E+05	2.999E+05	3.236E+05	1.795E+05	1.974E+05	8.869E+04	9.887E+04
30	4.708E+05	4.895E+05	2.483E+05	2.658E+05	1.275E+05	1.412E+05	6.076E+04	6.993E+04	3.637E+04	4.292E+04	1.797E+04	2.186E+04
45	9.851E+04	1.094E+05	5.195E+04	6.019E+04	2.667E+04	3.227E+04	1.271E+04	1.669E+04	7.611E+03	9.887E+03	3.760E+03	5.039E+03
60	3.380E+04	4.032E+04	1.783E+04	2.223E+04	9.151E+03	1.199E+04	4.362E+03	5.897E+03	2.612E+03	3.609E+03	1.290E+03	1.826E+03
75	1.538E+04	1.947E+04	8.113E+03	1.066E+04	4.164E+03	5.660E+03	1.989E+03	2.765E+03	1.188E+03	1.675E+03	5.874E+02	8.355E+02
90	8.451E+03	1.118E+04	4.457E+03	6.041E+03	2.288E+03	3.151E+03	1.091E+03	1.510E+03	6.529E+02	9.010E+02	3.226E+02	4.394E+02
120	3.756E+03	5.268E+03	1.981E+03	2.739E+03	1.017E+03	1.362E+03	4.847E+02	6.138E+02	2.902E+02	3.485E+02	1.434E+02	1.575E+02
150	2.427E+03	3.535E+03	1.280E+03	1.747E+03	6.570E+02	8.360E+02	3.132E+02	3.504E+02	1.875E+02	1.866E+02	9.264E+01	7.532E+01
179	2.113E+03	3.123E+03	1.114E+03	1.536E+03	5.720E+02	7.105E+02	2.727E+02	2.878E+02	1.632E+02	1.481E+02	8.066E+01	5.585E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-00MEV		1.5E-00MEV		2.0E-00MEV	
1	8.531E+09	8.577E+09	5.870E+09	5.904E+09	3.357E+09	3.378E+09	1.857E+09	1.870E+09	9.398E+08	9.464E+08	5.740E+08	5.782E+08
2	5.333E+08	5.387E+08	3.669E+08	3.709E+08	2.098E+08	2.124E+08	1.161E+08	1.176E+08	5.875E+07	5.955E+07	3.588E+07	3.638E+07
3	1.054E+08	1.070E+08	7.249E+07	7.369E+07	4.146E+07	4.221E+07	2.294E+07	2.339E+07	1.161E+07	1.185E+07	7.089E+06	7.240E+06
4	3.335E+07	3.402E+07	2.295E+07	2.345E+07	1.312E+07	1.344E+07	7.260E+06	7.452E+06	3.674E+06	3.777E+06	2.244E+06	2.308E+06
6	6.594E+06	6.801E+06	4.537E+06	4.693E+06	2.595E+06	2.694E+06	1.436E+06	1.495E+06	7.264E+05	7.582E+05	4.437E+05	4.636E+05
8	2.089E+06	2.181E+06	1.438E+06	1.507E+06	8.221E+05	8.641E+05	4.549E+05	4.811E+05	2.302E+05	2.442E+05	1.406E+05	1.494E+05
10	8.574E+05	9.067E+05	5.899E+05	6.271E+05	3.374E+05	3.609E+05	1.866E+05	2.007E+05	9.445E+04	1.019E+05	5.769E+04	6.237E+04
15	1.704E+05	1.870E+05	1.173E+05	1.296E+05	6.706E+04	7.483E+04	3.710E+04	4.170E+04	1.878E+04	2.121E+04	1.147E+04	1.299E+04
20	5.441E+04	6.215E+04	3.744E+04	4.316E+04	2.141E+04	2.400E+04	1.184E+04	1.393E+04	5.994E+03	7.095E+03	3.661E+03	4.346E+03
30	1.102E+04	1.365E+04	7.586E+03	9.496E+03	4.338E+03	5.504E+03	2.400E+03	3.076E+03	1.215E+03	1.564E+03	7.418E+02	9.610E+02
45	2.307E+03	3.145E+03	1.587E+03	2.187E+03	9.076E+02	1.267E+03	5.022E+02	7.073E+02	2.541E+02	3.603E+02	1.552E+02	2.207E+02
60	7.916E+02	1.134E+03	5.446E+02	7.858E+02	3.115E+02	4.559E+02	1.723E+02	2.519E+02	8.720E+01	1.279E+02	5.376E+01	7.825E+01
75	3.602E+02	5.138E+02	2.478E+02	3.536E+02	1.417E+02	2.020E+02	7.842E+01	1.115E+02	3.968E+01	5.633E+01	2.424E+01	3.436E+01
90	1.979E+02	2.661E+02	1.362E+02	1.812E+02	7.786E+01	1.020E+02	4.308E+01	5.565E+01	2.180E+01	2.783E+01	1.332E+01	1.991E+01
120	8.795E+01	9.025E+01	6.051E+01	5.888E+01	3.461E+01	3.174E+01	1.915E+01	1.617E+01	9.689E+00	7.738E+00	5.918E+00	4.600E+00
150	5.683E+01	3.911E+01	3.910E+01	2.342E+01	2.236E+01	1.079E+01	1.237E+01	4.791E+00	6.261E+00	1.948E+00	3.824E+00	1.065E+00
179	4.948E+01	2.703E+01	3.404E+01	1.505E+01	1.947E+01	5.977E+00	1.077E+01	2.119E+00	5.451E+00	1.044E+01	3.329E+00	2.369E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	2.816E+08	2.837E+08	1.677E+08	1.690E+08	1.114E+08	1.123E+08	5.950E+07	5.996E+07	3.024E+07	3.044E+07	1.385E+07	1.396E+07
2	1.760E+07	1.785E+07	1.048E+07	1.063E+07	6.964E+06	7.045E+06	3.719E+06	3.773E+06	1.891E+06	1.918E+06	8.659E+05	8.785E+05
3	3.478E+06	3.553E+06	2.071E+06	2.117E+06	1.376E+06	1.406E+06	7.348E+05	7.511E+05	3.735E+05	3.818E+05	1.711E+05	1.749E+05
4	1.101E+06	1.133E+06	6.556E+05	6.750E+05	4.355E+05	4.484E+05	2.326E+05	2.395E+05	1.182E+05	1.218E+05	5.415E+04	5.577E+04
6	2.177E+05	2.276E+05	1.296E+05	1.356E+05	8.611E+04	9.011E+04	4.599E+04	4.813E+04	2.338E+04	2.447E+04	1.071E+04	1.121E+04
8	6.897E+04	7.335E+04	4.107E+04	4.371E+04	2.729E+04	2.904E+04	1.457E+04	1.551E+04	7.407E+03	7.887E+03	3.393E+03	3.613E+03
10	2.830E+04	3.064E+04	1.685E+04	1.826E+04	1.120E+04	1.213E+04	5.980E+03	6.482E+03	3.040E+03	3.296E+03	1.392E+03	1.510E+03
15	5.626E+03	6.384E+03	3.351E+03	3.805E+03	2.226E+03	2.559E+03	1.189E+03	1.351E+03	6.042E+02	6.869E+02	2.768E+02	3.147E+02
20	1.796E+03	2.137E+03	1.070E+03	1.274E+03	7.106E+02	8.468E+02	3.795E+02	4.525E+02	1.929E+02	2.301E+02	8.835E+01	1.054E+02
30	3.639E+02	4.727E+02	2.167E+02	2.819E+02	1.440E+02	1.874E+02	7.689E+01	1.001E+02	3.909E+01	5.091E+01	1.790E+01	2.332E+01
45	7.614E+01	1.085E+02	4.535E+01	6.471E+01	3.012E+01	4.301E+01	1.609E+01	2.298E+01	8.178E+00	1.168E+01	3.746E+00	5.352E+00
60	2.613E+01	3.843E+01	1.556E+01	2.290E+01	1.034E+01	1.522E+01	5.521E+00	8.129E+00	2.858E+00	4.132E+00	1.285E+00	1.993E+00
75	1.189E+01	1.684E+01	7.081E+00	1.002E+01	4.704E+00	6.650E+00	2.512E+00	3.555E+00	1.277E+00	1.807E+00	5.849E+00	8.275E+00
90	4.532E+00	8.252E+00	3.890E+00	4.904E+00	2.584E+00	3.254E+00	1.380E+00	1.736E+00	7.016E+00	8.821E+00	3.213E+00	4.039E+00
120	2.903E+00	2.202E+00	1.729E+00	1.298E+00	1.149E+00	8.579E+00	6.134E+00	4.559E+00	3.118E+00	2.311E+00	1.428E+00	1.057E+00
150	1.876E+00	4.662E+00	1.117E+00	2.638E+00	7.422E+00	1.706E+00	3.964E+00	8.877E+00	2.015E+00	4.445E+00	9.228E+00	2.018E+00
179	1.633E+00	5.958E+00	9.727E+00	2.159E+00	6.462E+00	9.640E+00	3.451E+00	2.817E+00	1.754E+00	7.530E+00	8.035E+00	1.694E+00
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	7.915E+06	7.976E+06	3.574E+06	3.602E+06	2.027E+06	2.043E+06	1.304E+06	1.314E+06	6.690E+05	6.742E+05	3.292E+05	3.318E+05
2	4.947E+05	5.019E+05	2.234E+05	2.267E+05	1.267E+05	1.286E+05	8.150E+04	8.268E+04	4.182E+04	4.243E+04	2.058E+04	2.088E+04
3	9.775E+04	9.992E+04	4.415E+04	4.512E+04	2.504E+04	2.559E+04	1.610E+04	1.646E+04	8.262E+03	8.445E+03	4.066E+03	4.156E+03
4	3.094E+04	3.187E+04	1.397E+04	1.439E+04	7.924E+03	8.161E+03	5.097E+03	5.249E+03	2.615E+03	2.693E+03	1.287E+03	1.325E+03
6	6.118E+03	6.404E+03	2.763E+03	2.892E+03	1.567E+03	1.640E+03	1.008E+03	1.055E+03	5.171E+02	5.413E+02	2.545E+02	2.664E+02
8	1.938E+03	2.064E+03	8.754E+02	9.323E+02	4.965E+02	5.287E+02	3.193E+02	3.400E+02	1.638E+02	1.745E+02	8.063E+01	8.586E+01
10	7.955E+02	8.625E+02	3.592E+02	3.895E+02	2.037E+02	2.209E+02	1.310E+02	1.421E+02	6.723E+01	7.290E+01	3.309E+01	3.588E+01
15	1.581E+02	1.798E+02	7.141E+01	8.120E+01	4.050E+01	4.605E+01	2.605E+01	2.962E+01	1.337E+01	1.520E+01	6.577E+00	7.479E+00
20	5.048E+01	6.022E+01	2.280E+01	2.720E+01	1.293E+01	1.562E+01	8.315E+00	9.920E+00	4.267E+00	5.090E+00	2.100E+00	2.505E+00
30	1.023E+01	1.332E+01	4.619E+00	6.018E+00	2.620E+00	3.413E+00	1.685E+00	2.195E+00	8.645E+00	1.126E+00	4.254E+00	5.543E+00
45	2.140E+00	3.058E+00	9.665E+00	1.381E+00	5.481E+00	7.833E+00	3.525E+00	5.038E+00	1.809E+00	2.585E+00	8.902E+00	1.272E+01
60	7.344E+00	1.082E+00	3.317E+00	4.885E+00	1.981E+00	2.770E+00	1.210E+00	1.782E+00	6.207E+00	9.142E+00	3.055E+00	4.499E+00
75	3.342E+00	4.728E+00	1.509E+00	2.135E+00	8.559E+00	1.211E+00	5.505E+00	7.787E+00	2.825E+00	3.976E+00	1.390E+00	1.966E+00
90	1.836E+00	2.307E+00	8.291E+00	1.042E+00	4.702E+00	5.909E+00	3.024E+00	3.800E+00	1.552E+00	1.950E+00	7.836E+00	9.598E+00
120	8.160E+00	6.035E+00	3.685E+00	2.724E+00	2.090E+00	1.545E+00	1.344E+00	9.934E+00	6.897E+00	5.097E+00	3.944E+00	2.508E+00
150	5.273E+00	1.150E+00	2.381E+00	5.179E+00	1.350E+00	2.955E+00	8.685E+00	1.887E+00	4.456E+00	9.678E+00	2.193E+00	4.762E+00
179	4.591E+00	6.036E+00	2.073E+00	1.921E+00	1.176E+00	6.185E+00	7.562E+00	3.245E+00	3.880E+00	1.335E+00	1.909E+00	5.698E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	8.606E+14	8.610E+14	3.828E+14	3.831E+14	2.156E+14	2.147E+14	9.599E+13	9.605E+13	5.410E+13	5.414E+13	3.469E+13	3.472E+13
2	5.379E+13	5.383E+13	2.393E+13	2.395E+13	1.347E+13	1.340E+13	6.000E+12	6.005E+12	3.382E+12	3.384E+12	2.168E+12	2.170E+12
3	1.063E+13	1.064E+13	4.728E+12	4.732E+12	2.662E+12	2.644E+12	1.186E+12	1.186E+12	6.682E+11	6.689E+11	4.285E+11	4.288E+11
4	3.364E+12	3.366E+12	1.497E+12	1.498E+12	8.427E+11	8.443E+11	3.752E+11	3.756E+11	2.115E+11	2.117E+11	1.356E+11	1.358E+11
6	6.652E+11	6.657E+11	2.959E+11	2.962E+11	1.666E+11	1.664E+11	7.420E+10	7.428E+10	4.182E+10	4.187E+10	2.682E+10	2.685E+10
8	2.108E+11	2.109E+11	9.377E+10	9.385E+10	5.280E+10	5.285E+10	2.351E+10	2.353E+10	1.325E+10	1.327E+10	8.497E+09	8.508E+09
10	8.649E+10	8.655E+10	3.848E+10	3.851E+10	2.166E+10	2.149E+10	9.647E+09	9.663E+09	5.437E+09	5.445E+09	3.487E+09	3.492E+09
15	1.719E+10	1.721E+10	7.649E+09	7.657E+09	4.307E+09	4.313E+09	1.918E+09	1.920E+09	1.081E+09	1.083E+09	6.931E+08	6.956E+08
20	5.489E+09	5.497E+09	2.442E+09	2.446E+09	1.375E+09	1.377E+09	6.122E+08	6.138E+08	3.450E+08	3.463E+08	2.213E+08	2.217E+08
30	1.112E+09	1.115E+09	4.948E+08	4.949E+08	2.786E+08	2.796E+08	1.241E+08	1.242E+08	6.992E+07	6.993E+07	4.483E+07	4.502E+07
45	2.327E+08	2.334E+08	1.035E+08	1.037E+08	5.829E+07	5.813E+07	2.596E+07	2.611E+07	1.463E+07	1.483E+07	9.380E+06	9.507E+06
60	7.985E+07	7.945E+07	3.552E+07	3.551E+07	2.000E+07	2.025E+07	8.907E+06	9.038E+06	5.020E+06	5.034E+06	3.219E+06	3.192E+06
75	3.634E+07	3.673E+07	1.617E+07	1.654E+07	9.102E+06	9.199E+06	4.053E+06	3.978E+06	2.284E+06	2.209E+06	1.465E+06	1.412E+06
90	1.996E+07	2.030E+07	8.881E+06	8.674E+06	5.000E+06	4.764E+06	2.222E+06	2.098E+06	1.255E+06	1.197E+06	8.047E+05	7.824E+05
120	8.872E+06	8.206E+06	3.947E+06	3.839E+06	2.222E+06	2.259E+06	9.896E+05	1.073E+06	5.577E+05	6.332E+05	3.576E+05	4.202E+05
150	5.733E+06	7.357E+06	2.950E+06	3.416E+06	1.436E+06	1.797E+06	6.395E+05	9.146E+05	3.604E+05	5.279E+05	2.311E+05	3.443E+05
179	4.991E+06	7.474E+06	2.221E+06	3.408E+06	1.250E+06	1.741E+06	5.568E+05	8.884E+05	3.138E+05	5.078E+05	2.012E+05	3.288E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.777E+13	1.778E+13	8.756E+12	8.763E+12	3.928E+12	3.942E+12	2.230E+12	2.233E+12	1.010E+12	1.011E+12	5.780E+11	5.789E+11
2	1.111E+12	1.112E+12	5.473E+11	5.479E+11	2.456E+11	2.459E+11	1.394E+11	1.397E+11	6.310E+10	6.323E+10	3.613E+10	3.622E+10
3	2.194E+11	2.197E+11	1.081E+11	1.083E+11	4.852E+10	4.841E+10	2.755E+10	2.760E+10	1.247E+10	1.250E+10	7.139E+09	7.164E+09
4	6.946E+10	6.955E+10	3.423E+10	3.428E+10	1.536E+10	1.539E+10	8.719E+09	8.740E+09	3.946E+09	3.960E+09	2.260E+09	2.271E+09
6	1.373E+10	1.375E+10	6.768E+09	6.785E+09	3.037E+09	3.044E+09	1.724E+09	1.730E+09	7.803E+08	7.849E+08	4.468E+08	4.501E+08
8	4.352E+09	4.361E+09	2.145E+09	2.150E+09	9.622E+08	9.650E+08	5.463E+08	5.490E+08	2.473E+08	2.492E+08	1.416E+08	1.429E+08
10	1.786E+09	1.791E+09	8.800E+08	8.822E+08	3.948E+08	3.944E+08	2.242E+08	2.257E+08	1.015E+08	1.024E+08	5.809E+07	5.867E+07
15	3.550E+08	3.558E+08	1.749E+08	1.755E+08	7.849E+07	7.921E+07	4.456E+07	4.505E+07	2.017E+07	2.037E+07	1.155E+07	1.165E+07
20	1.133E+08	1.136E+08	5.585E+07	5.632E+07	2.506E+07	2.546E+07	1.423E+07	1.437E+07	6.439E+06	6.482E+06	3.687E+06	3.719E+06
30	2.296E+07	2.323E+07	1.132E+07	1.145E+07	5.077E+06	5.098E+06	2.883E+06	2.884E+06	1.305E+06	1.313E+06	7.470E+05	7.626E+05
45	4.804E+06	4.825E+06	2.368E+06	2.351E+06	1.062E+06	1.065E+06	6.031E+05	6.069E+05	2.730E+05	2.844E+05	1.563E+05	1.683E+05
60	1.649E+06	1.617E+06	8.124E+05	8.006E+05	3.645E+05	3.698E+05	2.070E+05	2.169E+05	9.367E+04	1.037E+05	5.363E+04	6.195E+04
75	7.502E+05	7.326E+05	3.697E+05	3.731E+05	1.659E+05	1.766E+05	9.418E+04	1.047E+05	4.263E+04	5.040E+04	2.441E+04	3.008E+04
90	4.121E+05	4.176E+05	2.031E+05	2.170E+05	9.113E+04	1.038E+05	5.174E+04	6.154E+04	2.342E+04	2.946E+04	1.341E+04	1.745E+04
120	1.832E+05	2.259E+05	9.027E+04	1.165E+05	4.050E+04	5.440E+04	2.299E+04	3.175E+04	1.041E+04	1.470E+04	5.959E+03	8.470E+03
150	1.184E+05	1.802E+05	5.833E+04	9.042E+04	2.617E+04	4.103E+04	1.486E+04	2.331E+04	6.725E+03	1.042E+04	3.851E+03	5.845E+03
179	1.031E+05	1.703E+05	5.079E+04	8.454E+04	2.279E+04	3.790E+04	1.294E+04	2.134E+04	5.855E+03	9.413E+03	3.352E+03	5.222E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	3.763E+11	3.770E+11	1.985E+11	1.989E+11	1.019E+11	1.022E+11	4.857E+10	4.874E+10	2.908E+10	2.919E+10	1.437E+10	1.444E+10
2	2.353E+10	2.360E+10	1.241E+10	1.246E+10	6.369E+09	6.401E+09	3.036E+09	3.055E+09	1.818E+09	1.831E+09	8.980E+08	9.062E+08
3	4.648E+09	4.669E+09	2.451E+09	2.465E+09	1.258E+09	1.267E+09	5.999E+08	6.052E+08	3.591E+08	3.629E+08	1.774E+08	1.798E+08
4	1.471E+09	1.480E+09	7.759E+08	7.815E+08	3.983E+08	4.018E+08	1.899E+08	1.920E+08	1.137E+08	1.152E+08	5.616E+07	5.714E+07
6	2.909E+08	2.933E+08	1.534E+08	1.549E+08	7.875E+07	7.948E+07	3.754E+07	3.815E+07	2.248E+07	2.293E+07	1.110E+07	1.140E+07
8	9.216E+07	9.306E+07	4.861E+07	4.915E+07	2.495E+07	2.532E+07	1.190E+07	1.215E+07	7.121E+06	7.320E+06	3.519E+06	3.649E+06
10	3.782E+07	3.821E+07	1.995E+07	2.020E+07	1.024E+07	1.042E+07	4.881E+06	5.199E+06	2.922E+06	3.029E+06	1.444E+06	1.515E+06
15	7.519E+06	7.601E+06	3.965E+06	4.035E+06	2.035E+06	2.097E+06	9.704E+05	1.018E+06	5.809E+05	6.182E+05	2.870E+05	3.112E+05
20	2.400E+06	2.434E+06	1.266E+06	1.302E+06	6.498E+05	6.820E+05	3.098E+05	3.339E+05	1.854E+05	2.037E+05	9.163E+04	1.031E+05
30	4.864E+05	5.045E+05	2.565E+05	2.740E+05	1.317E+05	1.456E+05	6.277E+04	7.220E+04	3.758E+04	4.435E+04	1.857E+04	2.261E+04
45	1.018E+05	1.127E+05	5.367E+04	6.212E+04	2.755E+04	3.336E+04	1.313E+04	1.665E+04	7.862E+03	1.029E+04	3.885E+03	5.233E+03
60	3.492E+04	4.166E+04	1.842E+04	2.301E+04	4.453E+03	1.239E+04	4.507E+03	6.129E+03	2.698E+03	3.757E+03	1.333E+03	1.904E+03
75	1.589E+04	2.018E+04	8.381E+03	1.107E+04	4.302E+03	5.880E+03	2.051E+03	2.884E+03	1.228E+03	1.750E+03	6.066E+02	8.743E+02
90	8.730E+03	1.162E+04	4.604E+03	6.293E+03	2.363E+03	3.289E+03	1.127E+03	1.580E+03	6.745E+02	9.439E+02	3.332E+02	4.612E+02
120	3.880E+03	5.509E+03	2.046E+03	2.868E+03	1.050E+03	1.459E+03	5.007E+02	6.449E+02	2.998E+02	3.665E+02	1.481E+02	1.659E+02
150	2.507E+03	3.714E+03	1.322E+03	1.858E+03	6.787E+02	8.799E+02	3.236E+02	3.691E+02	1.937E+02	1.966E+02	9.570E+01	7.943E+01
179	2.183E+03	3.288E+03	1.151E+03	1.618E+03	5.909E+02	7.490E+02	2.817E+02	3.034E+02	1.686E+02	1.562E+02	8.332E+01	5.890E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	8.813E+09	8.861E+09	6.064E+09	6.099E+09	3.468E+09	3.440E+09	1.919E+09	1.932E+09	9.708E+08	9.777E+08	5.930E+08	5.973E+08
2	5.509E+08	5.565E+08	3.790E+08	3.832E+08	2.169E+08	2.194E+08	1.199E+08	1.215E+08	6.049E+07	6.152E+07	3.707E+07	3.759E+07
3	1.088E+08	1.105E+08	7.489E+07	7.613E+07	4.283E+07	4.361E+07	2.370E+07	2.416E+07	1.199E+07	1.224E+07	7.324E+06	7.479E+06
4	3.445E+07	3.515E+07	2.370E+07	2.423E+07	1.356E+07	1.349E+07	7.500E+06	7.698E+06	3.795E+06	3.901E+06	2.318E+06	2.385E+06
6	6.812E+06	7.024E+06	4.687E+06	4.847E+06	2.680E+06	2.782E+06	1.483E+06	1.544E+06	7.504E+05	7.832E+05	4.584E+05	4.788E+05
8	2.158E+06	2.252E+06	1.485E+06	1.556E+06	8.493E+05	8.945E+05	4.699E+05	4.969E+05	2.378E+05	2.522E+05	1.452E+05	1.543E+05
10	8.857E+05	9.363E+05	6.094E+05	6.476E+05	3.485E+05	3.728E+05	1.928E+05	2.073E+05	9.757E+04	1.053E+05	5.960E+04	6.443E+04
15	1.761E+05	1.931E+05	1.211E+05	1.339E+05	6.928E+04	7.731E+04	3.833E+04	4.309E+04	1.940E+04	2.192E+04	1.185E+04	1.342E+04
20	5.621E+04	6.421E+04	3.867E+04	4.461E+04	2.212E+04	2.581E+04	1.224E+04	1.441E+04	6.192E+03	7.339E+03	3.782E+03	4.496E+03
30	1.139E+04	1.413E+04	7.836E+03	9.835E+03	4.481E+03	5.703E+03	2.479E+03	3.189E+03	1.255E+03	1.626E+03	7.663E+02	9.966E+02
45	2.383E+03	3.269E+03	1.640E+03	2.275E+03	9.370E+02	1.318E+03	5.188E+02	7.365E+02	2.625E+02	3.753E+02	1.603E+02	2.299E+02
60	8.177E+02	1.184E+03	5.626E+02	8.207E+02	3.217E+02	4.734E+02	1.780E+02	2.634E+02	9.008E+01	1.338E+02	5.502E+01	8.189E+01
75	3.721E+02	5.382E+02	2.560E+02	3.707E+02	1.468E+02	2.119E+02	8.101E+01	1.171E+02	4.099E+01	5.916E+01	2.504E+01	3.610E+01
90	2.044E+02	2.796E+02	1.407E+02	1.905E+02	8.044E+01	1.073E+02	4.450E+01	5.861E+01	2.252E+01	2.933E+01	1.376E+01	1.782E+01
120	9.086E+01	9.516E+01	6.251E+01	6.213E+01	3.575E+01	3.300E+01	1.978E+01	1.710E+01	1.001E+01	8.190E+00	6.113E+00	4.870E+00
150	5.871E+01	4.127E+01	4.039E+01	2.472E+01	2.310E+01	1.140E+01	1.278E+01	5.069E+00	6.468E+00	2.076E+00	3.950E+00	1.129E+00
179	5.112E+01	2.850E+01	3.517E+01	1.587E+01	2.011E+01	6.304E+00	1.113E+01	2.234E+00	5.631E+00	6.375E+01	3.439E+00	2.498E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	2.909E+08	2.930E+08	1.732E+08	1.745E+08	1.151E+08	1.159E+08	6.147E+07	6.193E+07	3.124E+07	3.148E+07	1.431E+07	1.442E+07
2	1.818E+07	1.844E+07	1.083E+07	1.099E+07	7.194E+06	7.298E+06	3.842E+06	3.898E+06	1.953E+06	1.981E+06	8.945E+05	9.076E+05
3	3.593E+06	3.671E+06	2.140E+06	2.187E+06	1.421E+06	1.453E+06	7.591E+05	7.759E+05	3.859E+05	3.944E+05	1.767E+05	1.807E+05
4	1.137E+06	1.170E+06	6.773E+05	6.972E+05	4.499E+05	4.632E+05	2.403E+05	2.474E+05	1.221E+05	1.258E+05	5.594E+04	5.761E+04
6	2.249E+05	2.351E+05	1.339E+05	1.401E+05	8.896E+04	9.308E+04	4.751E+04	4.972E+04	2.415E+04	2.528E+04	1.106E+04	1.158E+04
8	7.125E+04	7.578E+04	4.243E+04	4.515E+04	2.819E+04	3.000E+04	1.505E+04	1.603E+04	7.652E+03	8.148E+03	3.505E+03	3.732E+03
10	2.924E+04	3.166E+04	1.741E+04	1.886E+04	1.157E+04	1.254E+04	6.177E+03	6.697E+03	3.140E+03	3.405E+03	1.438E+03	1.560E+03
15	5.812E+03	6.598E+03	3.461E+03	3.933E+03	2.299E+03	2.614E+03	1.228E+03	1.397E+03	6.242E+02	7.100E+02	2.859E+02	3.253E+02
20	1.855E+03	2.211E+03	1.105E+03	1.318E+03	7.340E+02	8.761E+02	3.920E+02	4.681E+02	1.993E+02	2.380E+02	9.127E+01	1.090E+02
30	3.759E+02	4.903E+02	2.239E+02	2.924E+02	1.487E+02	1.943E+02	7.943E+01	1.038E+02	4.038E+01	5.280E+01	1.849E+01	2.419E+01
45	7.866E+01	1.131E+02	4.685E+01	6.742E+01	3.112E+01	4.381E+01	1.662E+01	2.395E+01	8.448E+00	1.218E+01	3.870E+00	5.578E+00
60	2.699E+01	4.023E+01	1.608E+01	2.397E+01	1.068E+01	1.593E+01	5.703E+00	8.509E+00	2.899E+00	4.326E+00	1.328E+00	1.982E+00
75	1.228E+01	1.769E+01	7.316E+00	1.053E+01	4.860E+00	6.907E+00	2.595E+00	3.736E+00	1.319E+00	1.899E+00	6.043E+00	8.697E+00
90	6.748E+00	8.699E+00	4.019E+00	5.171E+00	2.670E+00	3.472E+00	1.426E+00	1.831E+00	7.248E+01	9.302E+01	3.320E+01	4.259E+01
120	2.999E+00	2.333E+00	1.786E+00	1.375E+00	1.187E+00	9.085E+01	6.337E+01	4.831E+01	3.221E+01	2.449E+01	1.475E+01	1.120E+01
150	1.938E+00	4.948E+01	1.154E+00	2.801E+01	7.667E+01	1.812E+01	4.095E+01	9.430E+02	2.081E+01	4.722E+02	9.533E+02	2.144E+02
179	1.687E+00	6.284E+02	1.005E+00	2.277E+02	6.675E+01	1.019E+02	3.565E+01	2.972E+03	1.812E+01	7.946E+04	9.300E+02	1.789E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	8.176E+06	8.238E+06	3.693E+06	3.720E+06	2.098E+06	2.110E+06	1.347E+06	1.357E+06	6.911E+05	6.963E+05	3.401E+05	3.426E+05
2	5.111E+05	5.185E+05	2.308E+05	2.342E+05	1.309E+05	1.328E+05	8.419E+04	8.542E+04	4.320E+04	4.383E+04	2.126E+04	2.157E+04
3	1.010E+05	1.032E+05	4.561E+04	4.661E+04	2.586E+04	2.644E+04	1.663E+04	1.700E+04	8.535E+03	8.724E+03	4.200E+03	4.293E+03
4	3.196E+04	3.292E+04	1.443E+04	1.487E+04	8.186E+03	8.431E+03	5.265E+03	5.422E+03	2.702E+03	2.782E+03	1.329E+03	1.369E+03
6	6.320E+03	6.615E+03	2.854E+03	2.987E+03	1.619E+03	1.698E+03	1.041E+03	1.090E+03	5.342E+02	5.591E+02	2.629E+02	2.751E+02
8	2.003E+03	2.133E+03	9.044E+02	9.631E+02	5.129E+02	5.461E+02	3.299E+02	3.513E+02	1.693E+02	1.802E+02	8.329E+01	8.870E+01
10	8.218E+02	8.811E+02	3.711E+02	4.024E+02	2.105E+02	2.282E+02	1.354E+02	1.468E+02	6.946E+01	7.532E+01	3.418E+01	3.707E+01
15	1.634E+02	1.858E+02	7.377E+01	8.393E+01	4.184E+01	4.760E+01	2.691E+01	3.061E+01	1.381E+01	1.571E+01	6.795E+00	7.730E+00
20	5.215E+01	6.230E+01	2.355E+01	2.814E+01	1.336E+01	1.596E+01	8.590E+00	1.026E+01	4.408E+00	5.266E+00	2.169E+00	2.591E+00
30	1.057E+01	1.382E+01	4.772E+00	6.242E+00	2.706E+00	3.540E+00	1.741E+00	2.277E+00	8.931E+01	1.168E+00	4.395E+01	5.749E+01
45	2.211E+00	3.187E+00	9.985E+01	1.439E+00	5.662E+01	8.142E+01	3.642E+01	5.250E+01	1.869E+01	2.694E+01	9.196E+02	1.326E+01
60	7.587E+01	1.132E+00	3.426E+01	5.113E+01	1.943E+01	2.900E+01	1.250E+01	1.865E+01	6.412E+02	9.570E+02	3.156E+02	4.709E+02
75	3.453E+01	4.969E+01	1.559E+01	2.244E+01	8.842E+02	1.273E+01	5.687E+02	8.184E+02	2.918E+02	4.200E+02	1.436E+02	2.067E+02
90	1.897E+01	2.433E+01	8.565E+02	1.099E+01	4.858E+02	6.231E+02	3.124E+02	4.007E+02	1.603E+02	2.054E+02	7.889E+03	1.012E+02
120	8.430E+02	6.395E+02	3.807E+02	2.887E+02	2.159E+02	1.677E+02	1.389E+02	1.053E+02	7.125E+03	5.401E+03	3.506E+03	2.658E+03
150	5.447E+02	1.221E+02	2.460E+02	5.503E+03	1.395E+02	3.118E+03	8.972E+02	2.005E+03	4.604E+03	1.028E+03	2.266E+03	5.060E+04
179	4.742E+02	6.375E+05	2.142E+02	1.608E+05	1.215E+02	6.550E+06	7.812E+03	3.439E+06	4.008E+03	1.416E+06	1.973E+03	6.053E+07

EU (63)

(BARN/STERADIAN)

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	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	8.885E+14	8.890E+14	3.953E+14	3.955E+14	2.226E+14	2.227E+14	9.911E+13	9.917E+13	5.586E+13	5.590E+13	3.562E+13	3.564E+13
2	5.554E+13	5.558E+13	2.471E+13	2.473E+13	1.391E+13	1.392E+13	6.195E+12	6.200E+12	3.492E+12	3.494E+12	2.239E+12	2.241E+12
3	1.097E+13	1.098E+13	4.882E+12	4.885E+12	2.749E+12	2.751E+12	1.224E+12	1.225E+12	6.899E+11	6.905E+11	4.424E+11	4.428E+11
4	3.474E+12	3.476E+12	1.545E+12	1.546E+12	8.701E+11	8.707E+11	3.875E+11	3.878E+11	2.184E+11	2.186E+11	1.400E+11	1.402E+11
6	6.868E+11	6.873E+11	3.056E+11	3.058E+11	1.720E+11	1.722E+11	7.661E+10	7.669E+10	4.318E+10	4.323E+10	2.769E+10	2.773E+10
8	2.176E+11	2.178E+11	9.682E+10	9.691E+10	5.451E+10	5.456E+10	2.427E+10	2.430E+10	1.368E+10	1.370E+10	8.773E+09	8.785E+09
10	8.930E+10	8.937E+10	3.973E+10	3.976E+10	2.237E+10	2.240E+10	9.961E+09	9.976E+09	5.614E+09	5.622E+09	3.600E+09	3.605E+09
15	1.775E+10	1.777E+10	7.898E+09	7.907E+09	4.447E+09	4.453E+09	1.980E+09	1.983E+09	1.116E+09	1.118E+09	7.156E+08	7.162E+08
20	5.667E+09	5.676E+09	2.521E+09	2.525E+09	1.420E+09	1.422E+09	6.321E+08	6.336E+08	3.563E+08	3.577E+08	2.285E+08	2.290E+08
30	1.148E+09	1.151E+09	5.109E+08	5.109E+08	2.976E+08	2.846E+08	1.281E+08	1.284E+08	7.219E+07	7.219E+07	4.629E+07	4.645E+07
45	2.403E+08	2.408E+08	1.069E+08	1.072E+08	6.018E+07	6.003E+07	2.680E+07	2.693E+07	1.510E+07	1.531E+07	9.685E+06	9.826E+06
60	8.245E+07	8.211E+07	3.668E+07	3.660E+07	2.965E+07	2.089E+07	9.196E+06	9.346E+06	5.183E+06	5.209E+06	3.324E+06	3.301E+06
75	3.752E+07	3.784E+07	1.669E+07	1.709E+07	9.398E+06	9.525E+06	4.185E+06	4.116E+06	2.359E+06	2.281E+06	1.512E+06	1.456E+06
90	2.061E+07	2.104E+07	9.170E+06	8.986E+06	5.163E+06	4.954E+06	2.299E+06	2.180E+06	1.296E+06	1.230E+06	8.309E+05	8.037E+05
120	9.161E+06	8.413E+06	4.075E+06	3.935E+06	2.295E+06	2.317E+06	1.022E+06	1.103E+06	5.759E+05	6.523E+05	3.693E+05	4.335E+05
150	5.919E+06	7.623E+06	2.633E+06	3.545E+06	1.483E+06	2.056E+06	6.603E+05	9.516E+05	3.721E+05	5.499E+05	2.386E+05	3.589E+05
179	5.154E+06	7.795E+06	2.293E+06	3.557E+06	1.291E+06	2.038E+06	5.749E+05	9.288E+05	3.240E+05	5.312E+05	2.078E+05	3.441E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.335E+13	1.336E+13	5.041E+12	5.048E+12	4.056E+12	4.040E+12	2.303E+12	2.305E+12	1.042E+12	1.044E+12	5.968E+11	5.977E+11
2	1.147E+12	1.148E+12	5.651E+11	5.657E+11	2.536E+11	2.549E+11	1.440E+11	1.442E+11	6.516E+10	6.529E+10	3.731E+10	3.740E+10
3	2.266E+11	2.268E+11	1.117E+11	1.118E+11	5.010E+10	5.019E+10	2.844E+10	2.850E+10	1.287E+10	1.291E+10	7.371E+09	7.397E+09
4	7.172E+10	7.181E+10	3.534E+10	3.540E+10	1.586E+10	1.589E+10	9.003E+09	9.024E+09	4.075E+09	4.089E+09	2.333E+09	2.344E+09
6	1.418E+10	1.420E+10	6.988E+09	7.005E+09	3.135E+09	3.143E+09	1.780E+09	1.786E+09	8.057E+08	8.103E+08	4.613E+08	4.648E+08
8	4.493E+09	4.503E+09	2.214E+09	2.221E+09	9.935E+08	9.943E+08	5.640E+08	5.667E+08	2.553E+08	2.574E+08	1.462E+08	1.475E+08
10	1.844E+09	1.849E+09	9.086E+08	9.110E+08	4.077E+08	4.092E+08	2.315E+08	2.331E+08	1.048E+08	1.058E+08	5.998E+07	6.060E+07
15	3.665E+08	3.674E+08	1.806E+08	1.812E+08	8.104E+07	8.177E+07	4.601E+07	4.653E+07	2.083E+07	2.104E+07	1.192E+07	1.204E+07
20	1.170E+08	1.172E+08	5.766E+07	5.813E+07	2.587E+07	2.619E+07	1.469E+07	1.485E+07	6.648E+06	6.695E+06	3.806E+06	3.838E+06
30	2.371E+07	2.398E+07	1.168E+07	1.184E+07	5.242E+06	5.269E+06	2.976E+06	2.978E+06	1.347E+06	1.356E+06	7.713E+05	7.859E+05
45	4.961E+06	4.990E+06	2.445E+06	2.429E+06	1.097E+06	1.088E+06	6.227E+05	6.251E+05	2.819E+05	2.928E+05	1.614E+05	1.733E+05
60	1.702E+06	1.669E+06	8.389E+05	8.249E+05	3.764E+05	3.804E+05	2.137E+05	2.231E+05	9.672E+04	1.068E+05	5.537E+04	6.388E+04
75	7.746E+05	7.538E+05	3.818E+05	3.835E+05	1.713E+05	1.817E+05	9.724E+04	1.078E+05	4.401E+04	5.202E+04	2.520E+04	3.110E+04
90	4.256E+05	4.290E+05	2.097E+05	2.231E+05	9.409E+04	1.069E+05	5.342E+04	6.354E+04	2.418E+04	3.028E+04	1.384E+04	1.810E+04
120	1.891E+05	2.335E+05	9.321E+04	1.207E+05	4.182E+04	5.670E+04	2.374E+04	3.303E+04	1.075E+04	1.532E+04	6.153E+03	8.844E+03
150	1.222E+05	1.881E+05	6.023E+04	9.449E+04	2.702E+04	4.294E+04	1.534E+04	2.442E+04	6.944E+03	1.093E+04	3.976E+03	6.135E+03
179	1.064E+05	1.784E+05	5.244E+04	8.864E+04	2.353E+04	3.978E+04	1.336E+04	2.241E+04	6.046E+03	9.895E+03	3.461E+03	5.493E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	3.886E+11	3.893E+11	2.049E+11	2.054E+11	1.052E+11	1.055E+11	5.015E+10	5.032E+10	3.002E+10	3.015E+10	1.483E+10	1.491E+10
2	4.229E+10	4.236E+10	1.281E+10	1.286E+10	6.576E+09	6.609E+09	3.135E+09	3.155E+09	1.877E+09	1.891E+09	9.272E+08	9.356E+08
3	4.799E+09	4.821E+09	2.531E+09	2.546E+09	1.299E+09	1.308E+09	6.194E+08	6.249E+08	3.708E+08	3.747E+08	1.832E+08	1.856E+08
4	1.519E+09	1.528E+09	8.011E+08	8.070E+08	4.112E+08	4.148E+08	1.960E+08	1.983E+08	1.174E+08	1.190E+08	5.799E+07	5.899E+07
6	3.004E+08	3.029E+08	1.584E+08	1.599E+08	8.131E+07	8.227E+07	3.876E+07	3.938E+07	2.321E+07	2.367E+07	1.147E+07	1.177E+07
8	9.517E+07	9.612E+07	5.019E+07	5.075E+07	2.576E+07	2.614E+07	1.228E+07	1.254E+07	7.353E+06	7.555E+06	3.633E+06	3.766E+06
10	3.905E+07	3.947E+07	2.060E+07	2.085E+07	1.057E+07	1.076E+07	5.040E+06	5.179E+06	3.017E+06	3.126E+06	1.491E+06	1.563E+06
15	7.764E+06	7.847E+06	4.094E+06	4.164E+06	2.102E+06	2.143E+06	1.002E+06	1.050E+06	5.998E+05	6.376E+05	2.964E+05	3.211E+05
20	2.478E+06	2.511E+06	1.307E+06	1.342E+06	6.709E+05	7.030E+05	3.198E+05	3.443E+05	1.915E+05	2.101E+05	9.461E+04	1.065E+05
30	5.022E+05	5.197E+05	2.648E+05	2.822E+05	1.359E+05	1.501E+05	6.481E+04	7.450E+04	3.880E+04	4.580E+04	1.917E+04	2.338E+04
45	1.051E+05	1.161E+05	5.541E+04	6.407E+04	2.844E+04	3.446E+04	1.356E+04	1.723E+04	8.118E+03	1.062E+04	4.011E+03	5.431E+03
60	3.606E+04	4.301E+04	1.901E+04	2.380E+04	9.761E+03	1.279E+04	4.653E+03	6.367E+03	2.786E+03	3.908E+03	1.376E+03	1.984E+03
75	1.641E+04	2.089E+04	8.653E+03	1.149E+04	4.442E+03	6.116E+03	2.118E+03	3.006E+03	1.268E+03	1.827E+03	6.263E+02	9.144E+02
90	9.014E+03	1.207E+04	4.754E+03	6.551E+03	2.440E+03	3.441E+03	1.163E+03	1.652E+03	6.964E+02	9.883E+02	3.441E+02	4.837E+02
120	4.006E+03	5.759E+03	2.113E+03	3.003E+03	1.085E+03	1.498E+03	5.170E+02	6.772E+02	3.095E+02	3.853E+02	1.529E+02	1.747E+02
150	2.589E+03	3.902E+03	1.365E+03	1.954E+03	7.008E+02	9.259E+02	3.341E+02	3.887E+02	2.000E+02	2.072E+02	9.882E+01	8.376E+01
179	2.254E+03	3.460E+03	1.189E+03	1.703E+03	6.101E+02	7.841E+02	2.909E+02	3.198E+02	1.741E+02	1.647E+02	8.603E+01	6.211E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	9.099E+09	9.149E+09	6.261E+09	6.297E+09	3.580E+09	3.603E+09	1.981E+09	1.993E+09	1.002E+09	1.010E+09	6.123E+08	6.167E+08
2	5.688E+08	5.746E+08	3.914E+08	3.957E+08	2.238E+08	2.245E+08	1.238E+08	1.254E+08	6.266E+07	6.353E+07	3.827E+07	3.881E+07
3	1.124E+08	1.141E+08	7.733E+07	7.859E+07	4.422E+07	4.502E+07	2.447E+07	2.494E+07	1.238E+07	1.264E+07	7.562E+06	7.722E+06
4	3.557E+07	3.628E+07	2.447E+07	2.501E+07	1.400E+07	1.434E+07	7.744E+06	7.948E+06	3.919E+06	4.028E+06	2.393E+06	2.462E+06
6	7.034E+06	7.250E+06	4.839E+06	5.003E+06	2.768E+06	2.872E+06	1.531E+06	1.594E+06	7.748E+05	8.085E+05	4.733E+05	4.944E+05
8	2.229E+06	2.324E+06	1.533E+06	1.606E+06	8.769E+05	9.233E+05	4.852E+05	5.130E+05	2.455E+05	2.604E+05	1.505E+05	1.593E+05
10	9.145E+05	9.663E+05	6.292E+05	6.684E+05	3.598E+05	3.848E+05	1.991E+05	2.140E+05	1.007E+05	1.087E+05	6.154E+04	6.552E+04
15	1.818E+05	1.993E+05	1.251E+05	1.382E+05	7.153E+04	7.982E+04	3.958E+04	4.449E+04	2.003E+04	2.264E+04	1.223E+04	1.386E+04
20	5.804E+04	6.630E+04	3.993E+04	4.607E+04	2.284E+04	2.666E+04	1.263E+04	1.489E+04	6.393E+03	7.585E+03	3.905E+03	4.647E+03
30	1.176E+04	1.461E+04	8.091E+03	1.018E+04	4.627E+03	5.905E+03	2.560E+03	3.303E+03	1.295E+03	1.685E+03	7.913E+02	1.033E+03
45	2.460E+03	3.395E+03	1.693E+03	2.364E+03	9.631E+02	1.371E+03	5.356E+02	7.664E+02	2.711E+02	3.907E+02	1.656E+02	2.394E+02
60	8.443E+02	1.235E+03	5.809E+02	8.566E+02	3.322E+02	4.945E+02	1.838E+02	2.754E+02	9.301E+01	1.400E+02	5.681E+01	8.565E+01
75	3.842E+02	5.635E+02	2.644E+02	3.884E+02	1.512E+02	2.232E+02	8.365E+01	1.229E+02	4.233E+01	6.211E+01	2.585E+01	3.791E+01
90	2.111E+02	2.936E+02	1.452E+02	2.002E+02	8.305E+01	1.129E+02	4.595E+01	6.169E+01	2.325E+01	3.089E+01	1.420E+01	1.877E+01
120	9.381E+01	1.003E+02	6.455E+01	6.554E+01	3.691E+01	3.445E+01	2.042E+01	1.807E+01	1.033E+01	8.665E+00	6.312E+00	5.155E+00
150	6.062E+01	4.354E+01	4.171E+01	2.610E+01	2.385E+01	1.205E+01	1.320E+01	5.361E+00	6.678E+00	2.199E+00	4.079E+00	1.197E+00
179	5.278E+01	3.006E+01	3.631E+01	1.674E+01	2.077E+01	6.648E+00	1.149E+01	2.356E+00	5.814E+00	6.722E+01	3.551E+00	2.634E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	3.004E+08	3.026E+08	1.789E+08	1.802E+08	1.188E+08	1.197E+08	6.346E+07	6.394E+07	3.226E+07	3.250E+07	1.478E+07	1.489E+07
2	1.877E+07	1.904E+07	1.118E+07	1.134E+07	7.428E+06	7.535E+06	3.967E+06	4.025E+06	2.017E+06	2.046E+06	9.236E+05	9.371E+05
3	3.710E+06	3.790E+06	2.209E+06	2.258E+06	1.468E+06	1.500E+06	7.838E+05	8.011E+05	3.984E+05	4.072E+05	1.825E+05	1.865E+05
4	1.174E+06	1.208E+06	6.993E+05	7.199E+05	4.645E+05	4.783E+05	2.481E+05	2.555E+05	1.261E+05	1.299E+05	5.776E+04	5.948E+04
6	2.322E+05	2.427E+05	1.383E+05	1.446E+05	9.185E+04	9.609E+04	4.906E+04	5.133E+04	2.494E+04	2.609E+04	1.142E+04	1.195E+04
8	7.356E+04	7.823E+04	4.381E+04	4.662E+04	2.910E+04	3.098E+04	1.554E+04	1.655E+04	7.901E+03	8.412E+03	3.619E+03	3.853E+03
10	3.019E+04	3.268E+04	1.798E+04	1.948E+04	1.194E+04	1.294E+04	6.378E+03	6.914E+03	3.242E+03	3.515E+03	1.485E+03	1.610E+03
15	6.001E+03	6.815E+03	3.574E+03	4.063E+03	2.374E+03	2.700E+03	1.288E+03	1.443E+03	6.445E+02	7.334E+02	2.952E+02	3.360E+02
20	1.916E+03	2.286E+03	1.141E+03	1.363E+03	7.579E+02	9.047E+02	4.048E+02	4.840E+02	2.058E+02	2.461E+02	9.424E+01	1.127E+02
30	3.882E+02	5.082E+02	2.332E+02	3.030E+02	1.536E+02	2.014E+02	8.202E+01	1.076E+02	4.169E+01	5.473E+01	1.910E+01	2.507E+01
45	8.122E+01	1.178E+02	4.837E+01	7.021E+01	3.213E+01	4.647E+01	1.716E+01	2.494E+01	8.723E+00	1.268E+01	3.995E+00	5.809E+00
60	2.787E+01	4.208E+01	1.660E+01	2.308E+01	1.103E+01	1.646E+01	5.889E+00	8.902E+00	2.993E+00	4.526E+00	1.371E+00	2.073E+00
75	1.268E+01	1.856E+01	7.553E+00	1.107E+01	5.018E+00	7.349E+00	2.680E+00	3.924E+00	1.362E+00	1.995E+00	6.239E+00	9.136E+00
90	6.967E+00	9.168E+00	4.149E+00	5.450E+00	2.757E+00	3.617E+00	1.472E+00	1.930E+00	7.483E+01	9.805E+01	3.428E+01	4.490E+01
120	3.097E+00	2.470E+00	1.844E+00	1.457E+00	1.225E+00	9.628E+01	6.543E+01	5.117E+01	3.326E+01	2.594E+01	1.523E+01	1.186E+01
150	2.001E+00	5.249E+01	1.192E+00	2.973E+01	7.916E+01	1.924E+01	4.228E+01	1.001E+01	2.149E+01	5.016E+02	9.843E+02	2.278E+02
179	1.742E+00	6.626E+02	1.038E+00	2.401E+02	6.892E+01	1.075E+02	3.681E+01	3.135E+03	1.871E+01	8.383E+04	8.570E+02	1.688E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	8.442E+06	8.506E+06	3.813E+06	3.841E+06	2.162E+06	2.178E+06	1.391E+06	1.401E+06	7.135E+05	7.189E+05	3.511E+05	3.538E+05
2	5.277E+05	5.354E+05	2.383E+05	2.418E+05	1.352E+05	1.371E+05	8.693E+04	8.819E+04	4.460E+04	4.525E+04	2.195E+04	2.227E+04
3	1.043E+05	1.066E+05	4.749E+04	4.813E+04	2.670E+04	2.739E+04	1.718E+04	1.755E+04	8.813E+03	9.008E+03	4.337E+03	4.433E+03
4	3.300E+04	3.399E+04	1.440E+04	1.535E+04	8.452E+03	8.704E+03	5.436E+03	5.598E+03	2.789E+03	2.872E+03	1.373E+03	1.414E+03
6	6.526E+03	6.829E+03	2.947E+03	3.084E+03	1.671E+03	1.749E+03	1.075E+03	1.125E+03	5.516E+02	5.772E+02	2.714E+02	2.840E+02
8	2.068E+03	2.202E+03	9.338E+02	9.943E+02	5.296E+02	5.639E+02	3.406E+02	3.627E+02	1.748E+02	1.861E+02	8.600E+01	9.158E+01
10	8.485E+02	9.200E+02	3.832E+02	4.155E+02	2.173E+02	2.356E+02	1.398E+02	1.516E+02	7.171E+01	7.776E+01	3.529E+01	3.827E+01
15	1.687E+02	1.920E+02	7.617E+01	8.670E+01	4.320E+01	4.917E+01	2.774E+01	3.162E+01	1.426E+01	1.623E+01	7.016E+00	7.985E+00
20	5.384E+01	6.441E+01	2.432E+01	2.909E+01	1.379E+01	1.660E+01	8.869E+00	1.061E+01	4.551E+00	5.445E+00	2.240E+00	2.679E+00
30	1.091E+01	1.433E+01	4.927E+00	6.470E+00	2.794E+00	3.649E+00	1.797E+00	2.360E+00	9.222E+01	1.211E+00	4.578E+01	5.960E+01
45	2.283E+00	3.319E+00	1.031E+00	1.499E+00	5.840E+00	8.501E+01	3.760E+01	5.467E+01	1.929E+01	2.805E+01	9.495E+02	1.381E+01
60	7.833E+01	1.185E+00	3.538E+01	5.350E+01	2.006E+01	3.034E+01	1.290E+01	1.951E+01	6.621E+02	1.001E+01	3.258E+02	4.927E+02
75	3.565E+01	5.220E+01	1.610E+01	2.357E+01	9.130E+02	1.317E+01	5.872E+02	8.598E+02	3.013E+02	4.412E+02	1.483E+02	2.171E+02
90	1.958E+01	2.565E+01	8.844E+02	1.158E+01	5.015E+02	6.568E+02	3.226E+02	4.224E+02	1.655E+02	2.168E+02	8.145E+03	1.067E+02
120	8.704E+02	6.774E+02	3.931E+02	3.058E+02	2.229E+02	1.714E+02	1.434E+02	1.115E+02	7.356E+03	5.722E+03	3.620E+03	2.816E+03
150	5.624E+02	1.298E+02	2.540E+02	5.846E+03	1.440E+02	3.313E+03	9.264E+03	2.130E+03	4.754E+03	1.093E+03	2.339E+03	5.375E+03
179	4.897E+02	6.734E+05	2.211E+02	1.701E+05	1.254E+02	6.935E+06	8.086E+03	3.645E+06	4.139E+03	1.503E+06	2.037E+03	6.428E+07

GD (64)

(BARNS/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	9.170E+14	9.175E+14	4.079E+14	4.082E+14	2.297E+14	2.298E+14	1.023E+14	1.023E+14	5.765E+13	5.768E+13	3.696E+13	3.699E+13
2	5.732E+13	5.735E+13	2.550E+13	2.552E+13	1.436E+13	1.447E+13	6.394E+12	6.398E+12	3.603E+12	3.606E+12	2.311E+12	2.313E+12
3	1.133E+13	1.133E+13	5.036E+12	5.042E+12	2.837E+12	2.839E+12	1.263E+12	1.264E+12	7.120E+11	7.126E+11	4.565E+11	4.570E+11
4	3.585E+12	3.587E+12	1.595E+12	1.596E+12	8.979E+11	8.986E+11	3.998E+11	4.002E+11	2.254E+11	2.256E+11	1.445E+11	1.447E+11
6	7.088E+11	7.093E+11	3.153E+11	3.156E+11	1.775E+11	1.777E+11	7.906E+10	7.915E+10	4.456E+10	4.461E+10	2.857E+10	2.862E+10
8	2.246E+11	2.248E+11	9.991E+10	1.000E+11	5.626E+10	5.631E+10	2.505E+10	2.508E+10	1.412E+10	1.414E+10	9.054E+09	9.067E+09
10	9.216E+10	9.223E+10	4.100E+10	4.103E+10	2.308E+10	2.311E+10	1.028E+10	1.029E+10	5.794E+09	5.803E+09	3.715E+09	3.720E+09
15	1.832E+10	1.834E+10	8.150E+09	8.161E+09	4.569E+09	4.565E+09	2.044E+09	2.046E+09	1.152E+09	1.154E+09	7.385E+08	7.412E+08
20	5.849E+09	5.857E+09	2.502E+09	2.605E+09	1.465E+09	1.468E+09	6.524E+08	6.536E+08	3.677E+08	3.692E+08	2.358E+08	2.364E+08
30	1.185E+09	1.187E+09	5.272E+08	5.273E+08	2.968E+08	2.977E+08	1.322E+08	1.325E+08	7.450E+07	7.449E+07	4.777E+07	4.790E+07
45	2.480E+08	2.483E+08	1.103E+08	1.107E+08	6.211E+07	6.166E+07	2.766E+07	2.776E+07	1.559E+07	1.579E+07	9.995E+06	1.015E+07
60	8.508E+07	8.484E+07	3.785E+07	3.771E+07	2.131E+07	2.153E+07	9.491E+06	9.658E+06	5.349E+06	5.388E+06	3.430E+06	3.413E+06
75	3.872E+07	3.895E+07	1.723E+07	1.766E+07	9.699E+06	9.847E+06	4.319E+06	4.258E+06	2.434E+06	2.356E+06	1.561E+06	1.501E+06
90	2.127E+07	2.180E+07	9.463E+06	9.308E+06	5.328E+06	5.090E+06	2.373E+06	2.225E+06	1.337E+06	1.264E+06	8.575E+05	8.251E+05
120	9.454E+06	8.622E+06	4.206E+06	4.032E+06	2.368E+06	2.375E+06	1.055E+06	1.134E+06	5.943E+05	6.713E+05	3.111E+05	4.468E+05
150	6.109E+06	7.893E+06	2.718E+06	3.676E+06	1.530E+06	2.135E+06	6.814E+05	9.896E+05	3.845E+05	5.725E+05	2.463E+05	3.739E+05
179	5.319E+06	8.127E+06	2.366E+06	3.712E+06	1.332E+06	2.128E+06	5.933E+05	9.706E+05	3.375E+05	5.555E+05	2.144E+05	3.600E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.893E+13	1.895E+13	9.330E+12	9.338E+12	4.186E+12	4.190E+12	2.377E+12	2.379E+12	1.076E+12	1.077E+12	6.159E+11	6.169E+11
2	1.183E+12	1.185E+12	5.832E+11	5.839E+11	2.617E+11	2.620E+11	1.486E+11	1.488E+11	6.724E+10	6.738E+10	3.850E+10	3.859E+10
3	2.338E+11	2.341E+11	1.152E+11	1.154E+11	5.170E+10	5.179E+10	2.935E+10	2.942E+10	1.329E+10	1.332E+10	7.607E+09	7.633E+09
4	7.401E+10	7.411E+10	3.647E+10	3.653E+10	1.636E+10	1.640E+10	9.291E+09	9.313E+09	4.205E+09	4.219E+09	2.408E+09	2.419E+09
6	1.463E+10	1.465E+10	7.212E+09	7.229E+09	3.235E+09	3.244E+09	1.837E+09	1.843E+09	8.315E+08	8.362E+08	4.761E+08	4.796E+08
8	4.637E+09	4.646E+09	2.285E+09	2.292E+09	1.025E+09	1.028E+09	5.821E+08	5.847E+08	2.635E+08	2.656E+08	1.508E+08	1.523E+08
10	1.903E+09	1.909E+09	9.377E+08	9.403E+08	4.207E+08	4.222E+08	2.389E+08	2.405E+08	1.081E+08	1.092E+08	6.190E+07	6.256E+07
15	3.783E+08	3.793E+08	1.864E+08	1.869E+08	8.363E+07	8.447E+07	4.748E+07	4.804E+07	2.149E+07	2.173E+07	1.231E+07	1.243E+07
20	1.208E+08	1.210E+08	5.951E+07	5.996E+07	2.670E+07	2.704E+07	1.516E+07	1.533E+07	6.861E+06	6.912E+06	3.928E+06	3.960E+06
30	2.447E+07	2.474E+07	1.206E+07	1.222E+07	5.410E+06	5.443E+06	3.071E+06	3.074E+06	1.390E+06	1.396E+06	7.960E+05	8.094E+05
45	5.119E+06	5.158E+06	2.523E+06	2.509E+06	1.132E+06	1.122E+06	6.426E+05	6.435E+05	2.909E+05	3.012E+05	1.665E+05	1.783E+05
60	1.757E+06	1.723E+06	8.657E+05	8.496E+05	3.884E+05	3.912E+05	2.205E+05	2.294E+05	9.981E+04	1.099E+05	5.715E+04	6.582E+04
75	7.994E+05	7.753E+05	3.940E+05	3.941E+05	1.768E+05	1.867E+05	1.004E+05	1.109E+05	4.542E+04	5.364E+04	2.601E+04	3.213E+04
90	4.392E+05	4.403E+05	2.164E+05	2.293E+05	9.710E+04	1.101E+05	5.513E+04	6.555E+04	2.495E+04	3.155E+04	1.429E+04	1.876E+04
120	1.952E+05	2.412E+05	9.619E+04	1.250E+05	4.316E+04	5.885E+04	2.450E+04	3.434E+04	1.109E+04	1.597E+04	6.350E+03	9.229E+03
150	1.261E+05	1.962E+05	6.216E+04	9.870E+04	2.789E+04	4.401E+04	1.583E+04	2.557E+04	7.166E+03	1.146E+04	4.103E+03	6.438E+03
179	1.098E+05	1.868E+05	5.412E+04	9.99E+04	2.428E+04	4.173E+04	1.378E+04	2.353E+04	6.239E+03	1.040E+04	3.572E+03	5.777E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	4.010E+11	4.017E+11	2.115E+11	2.119E+11	1.086E+11	1.089E+11	5.175E+10	5.193E+10	3.098E+10	3.111E+10	1.531E+10	1.539E+10
2	2.507E+10	2.514E+10	1.322E+10	1.327E+10	6.786E+09	6.820E+09	3.235E+09	3.256E+09	1.937E+09	1.951E+09	9.569E+08	9.656E+08
3	4.953E+09	4.975E+09	2.612E+09	2.627E+09	1.341E+09	1.350E+09	6.392E+08	6.449E+08	3.827E+08	3.867E+08	1.891E+08	1.915E+08
4	1.568E+09	1.577E+09	8.267E+08	8.326E+08	4.244E+08	4.282E+08	2.023E+08	2.046E+08	1.211E+08	1.228E+08	5.984E+07	6.088E+07
6	3.100E+08	3.126E+08	1.635E+08	1.651E+08	8.391E+07	8.491E+07	4.000E+07	4.064E+07	2.395E+07	2.442E+07	1.183E+07	1.214E+07
8	9.822E+07	9.922E+07	5.180E+07	5.239E+07	2.659E+07	2.697E+07	1.268E+07	1.294E+07	7.588E+06	7.793E+06	3.749E+06	3.885E+06
10	4.030E+07	4.074E+07	2.126E+07	2.152E+07	1.091E+07	1.110E+07	5.201E+06	5.342E+06	3.114E+06	3.224E+06	1.538E+06	1.612E+06
15	8.012E+06	8.098E+06	4.225E+06	4.295E+06	2.169E+06	2.230E+06	1.034E+06	1.083E+06	6.150E+05	6.573E+05	3.058E+05	3.311E+05
20	2.558E+06	2.589E+06	1.349E+06	1.383E+06	6.924E+05	7.243E+05	3.301E+05	3.548E+05	1.976E+05	2.166E+05	9.763E+04	1.098E+05
30	5.183E+05	5.350E+05	2.733E+05	2.906E+05	1.403E+05	1.566E+05	6.688E+04	7.682E+04	4.004E+04	4.726E+04	1.978E+04	2.415E+04
45	1.084E+05	1.195E+05	5.719E+04	6.603E+04	2.935E+04	3.557E+04	1.399E+04	1.782E+04	8.378E+03	1.100E+04	4.139E+03	5.632E+03
60	3.721E+04	4.436E+04	1.962E+04	2.460E+04	1.007E+04	1.354E+04	4.802E+03	6.610E+03	2.875E+03	4.063E+03	1.420E+03	2.066E+03
75	1.693E+04	2.162E+04	8.930E+03	1.191E+04	4.584E+03	6.356E+03	2.185E+03	3.132E+03	1.308E+03	1.906E+03	6.464E+02	9.558E+02
90	9.302E+03	1.253E+04	4.906E+03	6.816E+03	2.518E+03	3.578E+03	1.201E+03	1.726E+03	7.187E+02	1.034E+03	3.551E+02	5.072E+02
120	4.134E+03	6.016E+03	2.180E+03	3.142E+03	1.119E+03	1.570E+03	5.336E+02	7.710E+02	3.194E+02	4.050E+02	1.578E+02	1.839E+02
150	2.672E+03	4.097E+03	1.409E+03	2.053E+03	7.232E+02	9.749E+02	3.448E+02	4.092E+02	2.064E+02	2.182E+02	1.020E+02	8.830E+01
179	2.326E+03	3.640E+03	1.227E+03	1.793E+03	6.297E+02	8.313E+02	3.002E+02	3.370E+02	1.797E+02	1.736E+02	8.879E+01	6.548E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	9.391E+09	9.442E+09	6.461E+09	6.499E+09	3.695E+09	3.718E+09	2.044E+09	2.058E+09	1.034E+09	1.042E+09	6.319E+08	6.365E+08
2	5.870E+08	5.929E+08	4.039E+08	4.084E+08	2.310E+08	2.337E+08	1.278E+08	1.294E+08	6.467E+07	6.555E+07	3.950E+07	4.005E+07
3	1.160E+08	1.177E+08	7.980E+07	8.110E+07	4.563E+07	4.646E+07	2.525E+07	2.574E+07	1.278E+07	1.304E+07	7.804E+06	7.969E+06
4	3.671E+07	3.744E+07	2.526E+07	2.581E+07	1.444E+07	1.479E+07	7.992E+06	8.202E+06	4.044E+06	4.156E+06	2.470E+06	2.540E+06
6	7.259E+06	7.480E+06	4.994E+06	5.162E+06	2.856E+06	2.964E+06	1.580E+06	1.645E+06	7.996E+05	8.342E+05	4.884E+05	5.101E+05
8	2.300E+06	2.398E+06	1.582E+06	1.657E+06	9.050E+05	9.525E+05	5.007E+05	5.293E+05	2.534E+05	2.687E+05	1.548E+05	1.643E+05
10	9.438E+05	9.966E+05	6.494E+05	6.895E+05	3.714E+05	3.970E+05	2.055E+05	2.208E+05	1.040E+05	1.122E+05	6.350E+04	6.864E+04
15	1.876E+05	2.056E+05	1.291E+05	1.426E+05	7.382E+04	8.239E+04	4.084E+04	4.592E+04	2.067E+04	2.337E+04	1.262E+04	1.431E+04
20	5.989E+04	6.840E+04	4.121E+04	4.755E+04	2.357E+04	2.763E+04	1.304E+04	1.538E+04	6.598E+03	7.835E+03	4.030E+03	4.801E+03
30	1.214E+04	1.511E+04	8.350E+03	1.053E+04	4.775E+03	6.111E+03	2.642E+03	3.419E+03	1.337E+03	1.745E+03	8.166E+02	1.070E+03
45	2.539E+03	3.524E+03	1.747E+03	2.456E+03	9.991E+02	1.425E+03	5.528E+02	7.969E+02	2.797E+02	4.064E+02	1.709E+02	2.491E+02
60	8.713E+02	1.287E+03	5.995E+02	8.936E+02	3.428E+02	5.162E+02	1.897E+02	2.876E+02	9.599E+01	1.463E+02	5.863E+01	8.953E+01
75	3.965E+02	5.997E+02	2.728E+02	4.067E+02	1.560E+02	2.379E+02	6.632E+01	1.289E+02	4.368E+01	6.518E+01	2.668E+01	3.979E+01
90	2.178E+02	3.082E+02	1.499E+02	2.103E+02	8.571E+01	1.187E+02	4.742E+01	6.492E+01	2.400E+01	3.253E+01	1.466E+01	1.977E+01
120	9.681E+01	1.057E+02	6.661E+01	6.912E+01	3.809E+01	3.680E+01	2.108E+01	1.910E+01	1.067E+01	9.166E+00	6.514E+00	5.456E+00
150	6.256E+01	4.593E+01	4.304E+01	2.754E+01	2.461E+01	1.273E+01	1.362E+01	5.670E+00	6.892E+00	2.328E+00	4.209E+00	1.269E+00
179	5.447E+01	3.169E+01	3.748E+01	1.765E+01	2.143E+01	7.009E+00	1.186E+01	2.484E+00	6.000E+00	7.088E+01	3.665E+00	2.778E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	3.100E+08	3.123E+08	1.846E+08	1.860E+08	1.226E+08	1.236E+08	6.549E+07	6.599E+07	3.329E+07	3.354E+07	1.525E+07	1.536E+07
2	1.938E+07	1.966E+07	1.154E+07	1.171E+07	7.666E+06	7.776E+06	4.094E+06	4.153E+06	2.081E+06	2.111E+06	9.532E+05	9.670E+05
3	3.828E+06	3.911E+06	2.280E+06	2.330E+06	1.515E+06	1.548E+06	8.089E+05	8.267E+05	4.112E+05	4.202E+05	1.883E+05	1.925E+05
4	1.212E+06	1.247E+06	7.217E+05	7.429E+05	4.794E+05	4.935E+05	2.560E+05	2.636E+05	1.301E+05	1.340E+05	5.961E+04	6.138E+04
6	2.396E+05	2.505E+05	1.427E+05	1.492E+05	9.479E+04	9.915E+04	5.063E+04	5.296E+04	2.573E+04	2.692E+04	1.179E+04	1.233E+04
8	7.592E+04	8.072E+04	4.521E+04	4.810E+04	3.004E+04	3.196E+04	1.604E+04	1.707E+04	8.154E+03	8.680E+03	3.735E+03	3.976E+03
10	3.115E+04	3.372E+04	1.855E+04	2.010E+04	1.233E+04	1.336E+04	6.582E+03	7.135E+03	3.346E+03	3.627E+03	1.533E+03	1.662E+03
15	6.193E+03	7.035E+03	3.688E+03	4.194E+03	2.450E+03	2.787E+03	1.309E+03	1.489E+03	6.651E+02	7.572E+02	3.047E+02	3.469E+02
20	1.777E+03	2.361E+03	1.177E+03	1.408E+03	7.822E+02	9.358E+02	4.177E+02	5.000E+02	2.123E+02	2.543E+02	9.726E+01	1.165E+02
30	4.006E+02	5.263E+02	2.386E+02	3.139E+02	1.585E+02	2.086E+02	8.464E+01	1.115E+02	4.303E+01	5.669E+01	1.971E+01	2.597E+01
45	8.381E+01	1.225E+02	4.992E+01	7.307E+01	3.316E+01	4.875E+01	1.771E+01	2.595E+01	9.002E+00	1.320E+01	4.123E+00	6.046E+00
60	2.876E+01	4.399E+01	1.713E+01	2.622E+01	1.138E+01	1.742E+01	6.077E+00	9.309E+00	3.089E+00	4.733E+00	1.415E+00	2.168E+00
75	1.309E+01	1.951E+01	7.795E+00	1.162E+01	5.178E+00	7.717E+00	2.766E+00	4.121E+00	1.406E+00	2.094E+00	6.439E+01	9.593E+01
90	7.190E+00	9.658E+00	4.282E+00	5.742E+00	2.845E+00	3.811E+00	1.519E+00	2.033E+00	7.723E+01	1.033E+00	3.537E+01	4.731E+01
120	3.196E+00	2.615E+00	1.903E+00	1.542E+00	1.264E+00	1.019E+00	6.752E+01	5.419E+01	3.432E+01	2.747E+01	1.572E+01	1.256E+01
150	2.065E+00	5.569E+01	1.230E+00	3.155E+01	8.170E+01	2.042E+01	4.363E+01	1.063E+01	2.218E+01	5.326E+02	1.016E+01	2.419E+02
179	1.798E+00	6.987E+02	1.071E+00	2.532E+02	7.113E+01	1.133E+02	3.799E+01	3.306E+03	1.931E+01	8.843E+04	8.844E+02	1.993E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	8.712E+06	8.778E+06	3.935E+06	3.964E+06	2.231E+06	2.248E+06	1.435E+06	1.446E+06	7.364E+05	7.419E+05	3.624E+05	3.651E+05
2	5.446E+05	5.525E+05	2.460E+05	2.495E+05	1.395E+05	1.415E+05	8.971E+04	9.101E+04	4.603E+04	4.670E+04	2.265E+04	2.298E+04
3	1.076E+05	1.100E+05	4.860E+04	4.967E+04	2.756E+04	2.817E+04	1.772E+04	1.812E+04	9.095E+03	9.296E+03	4.476E+03	4.574E+03
4	3.406E+04	3.507E+04	1.538E+04	1.584E+04	8.723E+03	8.982E+03	5.610E+03	5.777E+03	2.879E+03	2.964E+03	1.417E+03	1.459E+03
6	6.734E+03	7.046E+03	3.041E+03	3.182E+03	1.725E+03	1.805E+03	1.109E+03	1.161E+03	5.692E+02	5.956E+02	2.801E+02	2.931E+02
8	2.134E+03	2.272E+03	9.637E+02	1.026E+03	5.465E+02	5.818E+02	3.515E+02	3.742E+02	1.804E+02	1.920E+02	8.876E+01	9.449E+01
10	8.756E+02	9.494E+02	3.954E+02	4.288E+02	2.243E+02	2.432E+02	1.442E+02	1.564E+02	7.401E+01	8.025E+01	3.642E+01	3.949E+01
15	1.741E+02	1.982E+02	7.881E+01	8.950E+01	4.458E+01	5.076E+01	2.867E+01	3.265E+01	1.471E+01	1.675E+01	7.240E+00	8.244E+00
20	5.557E+01	6.655E+01	2.510E+01	3.006E+01	1.423E+01	1.705E+01	9.153E+00	1.096E+01	4.697E+00	5.625E+00	2.311E+00	2.768E+00
30	1.126E+01	1.484E+01	5.085E+00	6.703E+00	2.884E+00	3.801E+00	1.855E+00	2.445E+00	9.517E+01	1.254E+00	4.683E+00	6.173E+01
45	2.356E+00	3.454E+00	1.064E+00	1.560E+00	6.034E+01	8.848E+01	3.881E+01	5.691E+01	1.991E+01	2.920E+01	9.749E+02	1.437E+01
60	8.084E+01	1.239E+00	3.651E+01	5.594E+01	2.070E+01	3.173E+01	1.332E+01	2.040E+01	6.833E+02	1.047E+01	3.362E+02	5.152E+02
75	3.679E+01	5.481E+01	1.661E+01	2.475E+01	9.422E+02	1.404E+01	6.060E+02	9.028E+02	3.109E+02	4.632E+02	1.530E+02	2.280E+02
90	2.021E+01	2.703E+01	9.127E+02	1.220E+01	5.176E+02	6.921E+02	3.329E+02	4.451E+02	1.708E+02	2.284E+02	8.406E+03	1.124E+02
120	8.982E+02	7.175E+02	4.056E+02	3.239E+02	2.300E+02	1.836E+02	1.480E+02	1.181E+02	7.592E+03	6.060E+03	3.736E+03	2.982E+03
150	5.804E+02	1.378E+02	2.621E+02	6.209E+03	1.486E+02	3.519E+03	9.560E+03	2.262E+03	4.906E+03	1.160E+03	2.414E+03	5.709E+04
179	5.053E+02	7.112E+05	2.282E+02	1.799E+05	1.294E+02	7.342E+06	8.324E+03	3.862E+06	4.271E+03	1.594E+06	2.102E+03	6.825E+07

TH (65)

(BARN/S/STERADIAN)

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	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	9.459E+14	9.464E+14	4.208E+14	4.210E+14	2.369E+14	2.371E+14	1.055E+14	1.056E+14	5.946E+13	5.950E+13	3.813E+13	3.815E+13
2	5.912E+13	5.916E+13	2.630E+13	2.632E+13	1.441E+13	1.442E+13	6.595E+12	6.600E+12	3.717E+12	3.720E+12	2.383E+12	2.385E+12
3	1.168E+13	1.169E+13	5.197E+12	5.201E+12	2.926E+12	2.928E+12	1.303E+12	1.304E+12	7.344E+11	7.350E+11	4.709E+11	4.714E+11
4	3.698E+12	3.700E+12	1.645E+12	1.646E+12	9.262E+11	9.269E+11	4.124E+11	4.128E+11	2.324E+11	2.327E+11	1.491E+11	1.492E+11
6	7.311E+11	7.317E+11	3.253E+11	3.255E+11	1.831E+11	1.833E+11	8.155E+10	8.165E+10	4.596E+10	4.601E+10	2.947E+10	2.952E+10
8	2.317E+11	2.318E+11	1.031E+11	1.032E+11	5.803E+10	5.808E+10	2.584E+10	2.587E+10	1.456E+10	1.459E+10	9.339E+09	9.353E+09
10	9.506E+10	9.514E+10	4.229E+10	4.233E+10	2.381E+10	2.386E+10	1.060E+10	1.062E+10	5.976E+09	5.987E+09	3.832E+09	3.837E+09
15	1.890E+10	1.892E+10	8.407E+09	8.419E+09	4.734E+09	4.739E+09	2.108E+09	2.111E+09	1.188E+09	1.190E+09	7.618E+08	7.645E+08
20	6.033E+09	6.041E+09	2.684E+09	2.686E+09	1.511E+09	1.514E+09	6.729E+08	6.740E+08	3.792E+08	3.809E+08	2.432E+08	2.440E+08
30	1.222E+09	1.224E+09	5.438E+08	5.440E+08	3.062E+08	3.072E+08	1.363E+08	1.368E+08	7.685E+07	7.683E+07	4.928E+07	4.937E+07
45	2.558E+08	2.559E+08	1.138E+08	1.143E+08	6.406E+07	6.399E+07	2.853E+07	2.861E+07	1.608E+07	1.628E+07	1.031E+07	1.047E+07
60	8.776E+07	8.763E+07	3.904E+07	3.884E+07	2.198E+07	2.218E+07	9.789E+06	9.973E+06	5.517E+06	5.570E+06	3.538E+06	3.528E+06
75	3.994E+07	4.007E+07	1.777E+07	1.823E+07	1.000E+07	1.020E+07	4.455E+06	4.404E+06	2.511E+06	2.432E+06	1.610E+06	1.547E+06
90	2.194E+07	2.256E+07	9.761E+06	9.639E+06	5.496E+06	5.260E+06	2.447E+06	2.290E+06	1.379E+06	1.298E+06	8.845E+05	8.666E+05
120	9.751E+06	8.831E+06	4.338E+06	4.127E+06	2.463E+06	2.443E+06	1.088E+06	1.164E+06	6.130E+05	6.903E+05	3.931E+05	4.461E+05
150	6.301E+06	6.167E+06	2.803E+06	3.811E+06	1.578E+06	2.215E+06	7.029E+05	1.029E+06	3.961E+05	5.957E+05	2.540E+05	3.894E+05
179	5.486E+06	6.469E+06	2.441E+06	3.871E+06	1.374E+06	2.221E+06	6.119E+05	1.014E+06	3.449E+05	5.806E+05	2.212E+05	3.765E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	1.953E+13	1.954E+13	9.624E+12	9.632E+12	4.318E+12	4.322E+12	2.451E+12	2.454E+12	1.110E+12	1.111E+12	6.353E+11	6.363E+11
2	1.221E+12	1.222E+12	6.016E+11	6.023E+11	2.699E+11	2.702E+11	1.532E+11	1.535E+11	6.936E+10	6.950E+10	3.971E+10	3.981E+10
3	2.412E+11	2.415E+11	1.189E+11	1.190E+11	5.333E+10	5.342E+10	3.028E+10	3.034E+10	1.370E+10	1.374E+10	7.846E+09	7.873E+09
4	7.634E+10	7.645E+10	3.762E+10	3.768E+10	1.688E+10	1.690E+10	9.583E+09	9.607E+09	4.338E+09	4.352E+09	2.483E+09	2.495E+09
6	1.510E+10	1.512E+10	7.439E+09	7.457E+09	3.338E+09	3.347E+09	1.895E+09	1.901E+09	8.577E+08	8.624E+08	4.911E+08	4.948E+08
8	4.783E+09	4.792E+09	2.357E+09	2.364E+09	1.058E+09	1.060E+09	6.004E+08	6.030E+08	2.718E+08	2.739E+08	1.556E+08	1.571E+08
10	1.963E+09	1.969E+09	9.672E+08	9.701E+08	4.340E+08	4.355E+08	2.464E+08	2.480E+08	1.115E+08	1.127E+08	6.385E+07	6.455E+07
15	3.902E+08	3.913E+08	1.923E+08	1.928E+08	8.627E+07	8.700E+07	4.898E+07	4.956E+07	2.217E+07	2.242E+07	1.269E+07	1.282E+07
20	1.246E+08	1.247E+08	6.138E+07	6.181E+07	2.754E+07	2.790E+07	1.564E+07	1.583E+07	7.077E+06	7.134E+06	4.052E+06	4.085E+06
30	2.524E+07	2.551E+07	1.244E+07	1.262E+07	5.580E+06	5.621E+06	3.168E+06	3.173E+06	1.434E+06	1.439E+06	8.210E+05	8.333E+05
45	5.281E+06	5.329E+06	2.602E+06	2.591E+06	1.168E+06	1.169E+06	6.629E+05	6.623E+05	3.000E+05	3.096E+05	1.718E+05	1.833E+05
60	1.812E+06	1.778E+06	8.930E+05	8.748E+05	4.006E+05	4.021E+05	2.275E+05	2.357E+05	1.030E+05	1.131E+05	5.895E+04	6.776E+04
75	8.246E+05	7.972E+05	4.064E+05	4.047E+05	1.823E+05	1.918E+05	1.035E+05	1.141E+05	4.685E+04	5.528E+04	2.683E+04	3.317E+04
90	4.530E+05	4.516E+05	2.232E+05	2.354E+05	1.002E+05	1.133E+05	5.687E+04	6.756E+04	2.574E+04	3.261E+04	1.474E+04	1.943E+04
120	2.013E+05	2.490E+05	9.922E+04	1.293E+05	4.452E+04	6.104E+04	2.527E+04	3.568E+04	1.144E+04	1.663E+04	6.550E+03	9.626E+03
150	1.301E+05	2.046E+05	6.411E+04	1.030E+05	2.876E+04	4.699E+04	1.633E+04	2.676E+04	7.392E+03	1.201E+04	4.232E+03	6.753E+03
179	1.133E+05	1.955E+05	5.582E+04	9.731E+04	2.504E+04	4.376E+04	1.422E+04	2.469E+04	6.436E+03	1.092E+04	3.685E+03	6.072E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	4.137E+11	4.144E+11	2.181E+11	2.186E+11	1.129E+11	1.123E+11	5.338E+10	5.357E+10	3.196E+10	3.209E+10	1.579E+10	1.587E+10
2	2.586E+10	2.593E+10	1.364E+10	1.369E+10	7.000E+09	7.035E+09	3.337E+09	3.358E+09	1.998E+09	2.013E+09	9.870E+08	9.960E+08
3	5.109E+09	5.131E+09	2.694E+09	2.710E+09	1.383E+09	1.393E+09	6.593E+08	6.652E+08	3.947E+08	3.989E+08	1.950E+08	1.976E+08
4	1.617E+09	1.627E+09	8.528E+08	8.591E+08	4.378E+08	4.417E+08	2.087E+08	2.110E+08	1.249E+08	1.266E+08	6.173E+07	6.279E+07
6	3.197E+08	3.225E+08	1.686E+08	1.703E+08	8.656E+07	8.759E+07	4.126E+07	4.192E+07	2.470E+07	2.519E+07	1.221E+07	1.252E+07
8	1.013E+08	1.024E+08	5.343E+07	5.405E+07	2.743E+07	2.782E+07	1.307E+07	1.335E+07	7.827E+06	8.035E+06	3.867E+06	4.006E+06
10	4.157E+07	4.204E+07	2.192E+07	2.220E+07	1.125E+07	1.145E+07	5.365E+06	5.507E+06	3.212E+06	3.323E+06	1.567E+06	1.662E+06
15	8.264E+06	8.354E+06	4.358E+06	4.428E+06	2.237E+06	2.298E+06	1.067E+06	1.115E+06	6.385E+05	6.773E+05	3.155E+05	3.412E+05
20	2.638E+06	2.669E+06	1.391E+06	1.425E+06	7.142E+05	7.459E+05	3.405E+05	3.654E+05	2.038E+05	2.232E+05	1.007E+05	1.132E+05
30	5.346E+05	5.506E+05	2.819E+05	2.990E+05	1.447E+05	1.591E+05	6.899E+04	7.915E+04	4.130E+04	4.874E+04	2.041E+04	2.493E+04
45	1.119E+05	1.230E+05	5.899E+04	6.800E+04	3.028E+04	3.669E+04	1.443E+04	1.842E+04	8.641E+03	1.138E+04	4.270E+03	5.836E+03
60	3.838E+04	4.573E+04	2.024E+04	2.540E+04	1.039E+04	1.371E+04	4.953E+03	6.857E+03	2.965E+03	4.221E+03	1.435E+03	2.151E+03
75	1.747E+04	2.355E+04	9.211E+03	1.235E+04	4.728E+03	6.602E+03	2.254E+03	3.261E+03	1.349E+03	1.988E+03	6.667E+02	9.986E+02
90	9.595E+03	1.300E+04	5.060E+03	7.087E+03	2.598E+03	3.728E+03	1.238E+03	1.803E+03	7.413E+02	1.082E+03	3.663E+02	5.316E+02
120	4.265E+03	6.282E+03	2.249E+03	3.286E+03	1.156E+03	1.645E+03	5.504E+02	7.461E+02	3.295E+02	4.255E+02	1.628E+02	1.936E+02
150	2.756E+03	4.300E+03	1.453E+03	2.157E+03	7.460E+02	1.024E+03	3.556E+02	4.307E+02	2.129E+02	2.298E+02	1.352E+02	9.307E+01
179	2.399E+03	3.828E+03	1.265E+03	1.887E+03	6.495E+02	8.745E+02	3.096E+02	3.551E+02	1.854E+02	1.830E+02	9.158E+01	6.903E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	9.686E+09	9.739E+09	6.665E+09	6.704E+09	3.811E+09	3.846E+09	2.109E+09	2.123E+09	1.067E+09	1.075E+09	6.518E+08	6.566E+08
2	6.055E+08	6.117E+08	4.166E+08	4.212E+08	2.382E+08	2.411E+08	1.318E+08	1.335E+08	6.670E+07	6.741E+07	4.074E+07	4.131E+07
3	1.196E+08	1.214E+08	8.231E+07	8.365E+07	4.707E+07	4.762E+07	2.604E+07	2.655E+07	1.318E+07	1.345E+07	8.050E+06	8.220E+06
4	3.787E+07	3.862E+07	2.605E+07	2.662E+07	1.490E+07	1.526E+07	8.243E+06	8.459E+06	4.171E+06	4.287E+06	2.548E+06	2.620E+06
6	7.487E+06	7.714E+06	5.152E+06	5.323E+06	2.946E+06	3.056E+06	1.630E+06	1.696E+06	8.248E+05	8.603E+05	5.038E+05	5.261E+05
8	2.372E+06	2.472E+06	1.632E+06	1.708E+06	9.335E+05	9.871E+05	5.165E+05	5.458E+05	2.614E+05	2.771E+05	1.596E+05	1.695E+05
10	9.735E+05	1.027E+06	6.698E+05	7.108E+05	3.830E+05	4.093E+05	2.119E+05	2.277E+05	1.072E+05	1.157E+05	6.559E+04	7.078E+04
15	1.935E+05	2.119E+05	1.332E+05	1.470E+05	7.615E+04	8.493E+04	4.213E+04	4.736E+04	2.132E+04	2.411E+04	1.302E+04	1.476E+04
20	6.178E+04	7.054E+04	4.251E+04	4.904E+04	2.431E+04	2.841E+04	1.345E+04	1.587E+04	6.806E+03	8.088E+03	4.157E+03	4.956E+03
30	1.252E+04	1.560E+04	8.613E+03	1.088E+04	4.926E+03	6.319E+03	2.725E+03	3.537E+03	1.379E+03	1.805E+03	8.423E+02	1.107E+03
45	2.619E+03	3.656E+03	1.802E+03	2.549E+03	1.031E+03	1.480E+03	5.702E+02	8.282E+02	2.885E+02	4.225E+02	1.762E+02	2.590E+02
60	8.988E+02	1.341E+03	6.184E+02	9.317E+02	3.536E+02	5.387E+02	1.957E+02	3.003E+02	9.901E+01	1.528E+02	6.047E+01	9.354E+01
75	4.090E+02	6.168E+02	2.814E+02	4.257E+02	1.609E+02	2.400E+02	8.904E+01	1.351E+02	4.506E+01	6.837E+01	2.752E+01	4.175E+01
90	2.247E+02	3.234E+02	1.546E+02	2.208E+02	8.841E+01	1.248E+02	4.991E+01	6.829E+01	2.475E+01	3.424E+01	1.512E+01	2.082E+01
120	9.986E+01	1.113E+02	6.871E+01	7.288E+01	3.929E+01	3.884E+01	2.174E+01	2.018E+01	1.100E+01	9.493E+00	6.719E+00	5.772E+00
150	6.453E+01	8.444E+01	4.440E+01	2.906E+01	2.539E+01	1.344E+01	1.405E+01	5.995E+00	7.109E+00	2.465E+00	4.342E+00	1.345E+00
179	5.618E+01	3.341E+01	3.866E+01	1.861E+01	2.211E+01	7.360E+00	1.223E+01	6.619E+00	6.189E+00	7.474E+01	3.780E+00	2.929E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	3.197E+08	3.221E+08	1.904E+08	1.919E+08	1.265E+08	1.275E+08	6.756E+07	6.807E+07	3.434E+07	3.460E+07	1.573E+07	1.585E+07
2	1.999E+07	2.027E+07	1.190E+07	1.208E+07	7.907E+06	8.022E+06	4.223E+06	4.285E+06	2.147E+06	2.178E+06	9.837E+05	9.976E+05
3	3.949E+06	4.034E+06	2.352E+06	2.403E+06	1.562E+06	1.596E+06	8.344E+05	8.527E+05	4.241E+05	4.335E+05	1.943E+05	1.985E+05
4	1.250E+06	1.286E+06	7.444E+05	7.662E+05	4.945E+05	5.090E+05	2.541E+05	2.719E+05	1.342E+05	1.382E+05	6.149E+04	6.331E+04
6	2.471E+05	2.583E+05	1.472E+05	1.539E+05	9.778E+04	1.023E+05	5.222E+04	5.462E+04	2.654E+04	2.777E+04	1.216E+04	1.272E+04
8	7.831E+04	8.325E+04	4.664E+04	4.960E+04	3.098E+04	3.265E+04	1.655E+04	1.761E+04	8.411E+03	8.952E+03	3.852E+03	4.100E+03
10	3.213E+04	3.478E+04	1.914E+04	2.073E+04	1.271E+04	1.377E+04	6.790E+03	7.358E+03	3.451E+03	3.741E+03	1.581E+03	1.714E+03
15	6.388E+03	7.258E+03	3.804E+03	4.327E+03	2.527E+03	2.876E+03	1.350E+03	1.536E+03	6.861E+02	7.812E+02	3.143E+02	3.579E+02
20	2.039E+03	2.438E+03	1.215E+03	1.454E+03	8.068E+02	9.642E+02	4.309E+02	5.163E+02	2.190E+02	2.625E+02	1.003E+02	1.203E+02
30	4.132E+02	5.448E+02	2.461E+02	3.249E+02	1.635E+02	2.160E+02	8.731E+01	1.154E+02	4.438E+01	5.869E+01	2.033E+01	2.689E+01
45	8.645E+01	1.275E+02	5.149E+01	7.600E+01	3.420E+01	5.062E+01	1.827E+01	2.700E+01	9.286E+00	1.373E+01	4.253E+00	6.289E+00
60	2.967E+01	4.597E+01	1.767E+01	2.740E+01	1.174E+01	1.831E+01	6.268E+00	9.729E+00	3.186E+00	4.946E+00	1.459E+00	2.266E+00
75	1.350E+01	2.047E+01	8.041E+00	1.219E+01	5.341E+00	8.099E+00	2.853E+00	4.325E+00	1.450E+00	2.198E+00	6.642E+00	1.007E+00
90	7.417E+00	1.017E+01	4.417E+00	6.047E+00	2.934E+00	4.014E+00	1.567E+00	2.142E+00	7.966E+00	1.088E+00	3.649E+00	4.983E+00
120	3.296E+00	2.768E+00	1.963E+00	1.633E+00	1.304E+00	1.079E+00	6.965E+00	5.737E+00	3.540E+00	2.909E+00	1.622E+00	1.330E+00
150	2.130E+00	5.906E+00	1.269E+00	3.348E+00	8.427E+00	2.147E+00	4.501E+00	1.129E+00	2.288E+00	5.655E+00	948E+00	2.569E+00
179	1.854E+00	7.368E+00	1.104E+00	2.670E+00	7.337E+00	1.195E+00	3.918E+00	3.487E+00	1.992E+00	9.328E+00	123E+00	2.103E+00
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	8.987E+06	9.055E+06	4.059E+06	4.090E+06	2.302E+06	2.319E+06	1.480E+06	1.492E+06	7.596E+05	7.654E+05	3.738E+05	3.767E+05
2	5.618E+05	5.700E+05	2.537E+05	2.574E+05	1.439E+05	1.460E+05	9.253E+04	9.389E+04	4.748E+04	4.818E+04	2.337E+04	2.371E+04
3	1.110E+05	1.134E+05	5.013E+04	5.123E+04	2.843E+04	2.905E+04	1.828E+04	1.869E+04	9.381E+03	9.588E+03	4.617E+03	4.716E+03
4	3.513E+04	3.617E+04	1.587E+04	1.634E+04	8.997E+03	9.244E+03	5.787E+03	5.959E+03	2.969E+03	3.057E+03	1.461E+03	1.505E+03
6	6.947E+03	7.267E+03	3.137E+03	3.282E+03	1.779E+03	1.861E+03	1.144E+03	1.197E+03	5.871E+02	6.143E+02	2.889E+02	3.023E+02
8	2.201E+03	2.343E+03	9.940E+02	1.058E+03	5.637E+02	6.000E+02	3.626E+02	3.859E+02	1.860E+02	1.980E+02	9.155E+01	9.745E+01
10	9.032E+02	9.791E+02	4.079E+02	4.422E+02	2.313E+02	2.508E+02	1.488E+02	1.613E+02	7.634E+01	8.276E+01	3.757E+01	4.073E+01
15	1.795E+02	2.043E+02	8.109E+01	9.234E+01	4.598E+01	5.247E+01	2.958E+01	3.368E+01	1.513E+01	1.728E+01	7.468E+00	8.505E+00
20	5.732E+01	6.872E+01	2.589E+01	3.104E+01	1.468E+01	1.740E+01	9.441E+00	1.132E+01	4.845E+00	5.809E+00	2.384E+00	2.858E+00
30	1.161E+01	1.536E+01	5.245E+00	6.938E+00	2.974E+00	3.935E+00	1.913E+00	2.531E+00	9.816E+00	1.299E+00	4.831E+00	6.391E+00
45	2.430E+00	3.593E+00	1.097E+00	1.623E+00	6.224E+00	9.203E+00	4.003E+00	5.919E+00	2.054E+00	3.037E+00	1.011E+00	1.495E+00
60	8.339E+00	1.295E+01	3.766E+00	5.847E+00	2.136E+00	3.316E+00	1.374E+00	2.133E+00	7.048E+00	1.094E+01	3.468E+00	5.385E+00
75	3.795E+00	5.753E+00	1.714E+00	2.598E+00	9.719E+00	1.473E+01	6.251E+00	9.476E+00	3.207E+00	4.862E+00	1.578E+00	2.393E+00
90	2.085E+00	2.847E+00	9.414E+00	1.286E+01	5.339E+00	7.290E+00	3.434E+00	4.689E+00	1.762E+00	2.406E+00	8.671E+00	1.184E+01
120	9.265E+00	7.596E+00	4.184E+00	3.429E+00	2.373E+00	1.944E+00	1.526E+00	1.251E+00	7.831E+00	6.416E+00	3.854E+00	3.157E+00
150	5.987E+00	1.463E+00	2.704E+00	6.594E+00	1.533E+00	3.776E+00	9.862E+00	2.402E+00	5.060E+00	1.237E+00	2.490E+00	6.363E+00
179	5.212E+00	7.510E+00	2.354E+00	1.902E+00	1.335E+00	7.771E+00	8.586E+00	4.092E+00	4.406E+00	1.691E+00	2.168E+00	7.246E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	9.752E+14	9.758E+14	4.338E+14	4.341E+14	2.443E+14	2.444E+14	1.088E+14	1.088E+14	6.131E+13	6.134E+13	3.931E+13	3.934E+13
2	6.096E+13	6.099E+13	2.712E+13	2.714E+13	1.527E+13	1.528E+13	6.800E+12	6.804E+12	3.832E+12	3.835E+12	2.457E+12	2.459E+12
3	1.204E+13	1.205E+13	5.358E+12	5.362E+12	3.017E+12	3.019E+12	1.343E+12	1.345E+12	7.572E+11	7.578E+11	4.855E+11	4.860E+11
4	3.812E+12	3.815E+12	1.696E+12	1.697E+12	9.549E+11	9.556E+11	4.252E+11	4.256E+11	2.397E+11	2.399E+11	1.537E+11	1.538E+11
6	7.538E+11	7.544E+11	3.353E+11	3.356E+11	1.888E+11	1.890E+11	8.408E+10	8.418E+10	4.739E+10	4.744E+10	3.039E+10	3.043E+10
8	2.388E+11	2.390E+11	1.063E+11	1.064E+11	5.983E+10	5.988E+10	2.664E+10	2.667E+10	1.502E+10	1.504E+10	9.628E+09	9.644E+09
10	9.801E+10	9.810E+10	4.360E+10	4.364E+10	2.455E+10	2.458E+10	1.093E+10	1.095E+10	6.161E+09	6.173E+09	3.951E+09	3.956E+09
15	1.948E+10	1.951E+10	8.668E+09	8.681E+09	4.880E+09	4.885E+09	2.173E+09	2.177E+09	1.225E+09	1.227E+09	7.854E+08	7.881E+08
20	6.220E+09	6.227E+09	2.767E+09	2.769E+09	1.558E+09	1.562E+09	6.938E+08	6.947E+08	3.910E+08	3.927E+08	2.507E+08	2.516E+08
30	1.260E+09	1.262E+09	5.607E+08	5.610E+08	3.157E+08	3.163E+08	1.406E+08	1.411E+08	7.923E+07	7.922E+07	5.080E+07	5.087E+07
45	2.637E+08	2.636E+08	1.173E+08	1.180E+08	6.605E+07	6.596E+07	2.941E+07	2.946E+07	1.658E+07	1.678E+07	1.063E+07	1.080E+07
60	9.048E+07	9.049E+07	4.025E+07	3.999E+07	2.267E+07	2.283E+07	1.009E+07	1.029E+07	5.688E+06	5.755E+06	3.648E+06	3.645E+06
75	4.118E+07	4.120E+07	1.832E+07	1.880E+07	1.031E+07	1.064E+07	4.593E+06	4.554E+06	2.589E+06	2.510E+06	1.660E+06	1.594E+06
90	2.262E+07	2.334E+07	1.006E+07	9.980E+06	5.666E+06	5.436E+06	2.523E+06	2.358E+06	1.422E+06	1.333E+06	9.119E+05	8.683E+05
120	1.005E+07	9.040E+06	4.473E+06	4.222E+06	2.518E+06	2.491E+06	1.121E+06	1.193E+06	6.320E+05	7.092E+05	4.053E+05	4.734E+05
150	6.496E+06	8.446E+06	2.890E+06	3.947E+06	1.627E+06	2.297E+06	7.246E+05	1.068E+06	4.084E+05	6.194E+05	2.619E+05	4.053E+05
179	5.656E+06	8.822E+06	2.516E+06	4.035E+06	1.417E+06	2.316E+06	6.309E+05	1.058E+06	3.556E+05	6.066E+05	2.280E+05	3.936E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.013E+13	2.015E+13	9.922E+12	9.930E+12	4.462E+12	4.456E+12	2.528E+12	2.530E+12	1.144E+12	1.146E+12	6.550E+11	6.560E+11
2	1.259E+12	1.260E+12	6.202E+11	6.209E+11	2.783E+11	2.786E+11	1.580E+11	1.582E+11	7.151E+10	7.145E+10	4.094E+10	4.104E+10
3	2.487E+11	2.489E+11	1.225E+11	1.227E+11	5.498E+10	5.508E+10	3.122E+10	3.129E+10	1.4.3E+10	1.4.17E+10	8.090E+09	8.117E+09
4	7.871E+10	7.882E+10	3.879E+10	3.884E+10	1.740E+10	1.744E+10	9.881E+09	9.905E+09	4.472E+09	4.487E+09	2.560E+09	2.572E+09
6	1.556E+10	1.559E+10	7.670E+09	7.687E+09	3.441E+09	3.461E+09	1.954E+09	1.960E+09	8.843E+08	8.890E+08	5.063E+08	5.101E+08
8	4.931E+09	4.940E+09	2.430E+09	2.438E+09	1.090E+09	1.093E+09	6.190E+08	6.216E+08	2.802E+08	2.824E+08	1.804E+08	1.820E+08
10	2.024E+09	2.029E+09	9.972E+08	1.000E+09	4.474E+08	4.489E+08	2.540E+08	2.556E+08	1.150E+08	1.162E+08	6.583E+07	6.588E+07
15	4.023E+08	4.036E+08	1.982E+08	1.987E+08	8.894E+07	8.967E+07	5.050E+07	5.110E+07	2.286E+07	2.313E+07	1.309E+07	1.323E+07
20	1.284E+08	1.286E+08	6.328E+07	6.369E+07	2.839E+07	2.877E+07	1.612E+07	1.633E+07	7.296E+06	7.360E+06	4.178E+06	4.211E+06
30	2.602E+07	2.629E+07	1.282E+07	1.302E+07	5.753E+06	5.803E+06	3.266E+06	3.273E+06	1.478E+06	1.482E+06	8.465E+05	8.575E+05
45	5.444E+06	5.504E+06	2.683E+06	2.675E+06	1.204E+06	1.191E+06	6.834E+05	6.813E+05	3.093E+05	3.182E+05	1.771E+05	1.884E+05
60	1.868E+06	1.834E+06	9.207E+05	9.004E+05	4.131E+05	4.131E+05	2.345E+05	2.420E+05	1.061E+05	1.162E+05	6.077E+04	6.971E+04
75	8.502E+05	8.194E+05	4.190E+05	4.153E+05	1.880E+05	1.949E+05	1.067E+05	1.172E+05	4.831E+04	5.692E+04	2.766E+04	3.422E+04
90	4.670E+05	4.629E+05	2.302E+05	2.415E+05	1.033E+05	1.145E+05	5.863E+04	6.959E+04	2.654E+04	3.368E+04	1.519E+04	2.011E+04
120	2.076E+05	2.568E+05	1.023E+05	1.337E+05	4.590E+04	6.357E+04	2.606E+04	3.705E+04	1.179E+04	1.731E+04	6.753E+03	1.003E+04
150	1.341E+05	2.132E+05	6.610E+04	1.075E+05	2.966E+04	4.908E+04	1.684E+04	2.799E+04	7.621E+03	1.258E+04	4.363E+03	7.081E+03
179	1.168E+05	2.046E+05	5.755E+04	1.019E+05	2.582E+04	4.587E+04	1.466E+04	2.591E+04	6.635E+03	1.147E+04	3.799E+03	6.382E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	4.265E+11	4.272E+11	2.249E+11	2.254E+11	1.155E+11	1.168E+11	5.504E+10	5.523E+10	3.295E+10	3.309E+10	1.628E+10	1.636E+10
2	2.666E+10	2.673E+10	1.406E+10	1.411E+10	7.217E+09	7.253E+09	3.440E+09	3.463E+09	2.060E+09	2.075E+09	1.018E+09	1.027E+09
3	5.267E+09	5.290E+09	2.778E+09	2.794E+09	1.426E+09	1.436E+09	6.798E+08	6.859E+08	4.069E+08	4.112E+08	2.011E+08	2.037E+08
4	1.667E+09	1.677E+09	8.792E+08	8.858E+08	4.513E+08	4.554E+08	2.152E+08	2.176E+08	1.288E+08	1.305E+08	6.364E+07	6.473E+07
6	3.297E+08	3.325E+08	1.739E+08	1.756E+08	8.924E+07	9.031E+07	4.254E+07	4.321E+07	2.547E+07	2.596E+07	1.258E+07	1.291E+07
8	1.045E+08	1.056E+08	5.509E+07	5.573E+07	2.828E+07	2.848E+07	1.348E+07	1.376E+07	8.070E+06	8.281E+06	3.987E+06	4.128E+06
10	4.286E+07	4.336E+07	2.260E+07	2.289E+07	1.150E+07	1.180E+07	5.532E+06	5.674E+06	3.311E+06	3.424E+06	1.636E+06	1.712E+06
15	8.521E+06	8.514E+06	4.494E+06	4.563E+06	2.307E+06	2.367E+06	1.100E+06	1.149E+06	6.583E+05	6.975E+05	3.252E+05	3.515E+05
20	2.720E+06	2.750E+06	1.434E+06	1.467E+06	7.363E+05	7.677E+05	3.516E+05	3.761E+05	2.101E+05	2.298E+05	1.038E+05	1.166E+05
30	5.512E+05	5.663E+05	2.907E+05	3.074E+05	1.4.2E+05	1.647E+05	7.113E+04	8.150E+04	4.258E+04	5.022E+04	2.104E+04	2.572E+04
45	1.153E+05	1.264E+05	6.082E+04	6.998E+04	3.122E+04	3.781E+04	1.488E+04	1.902E+04	8.909E+03	1.177E+04	4.402E+03	6.045E+03
60	3.957E+04	4.710E+04	2.087E+04	2.622E+04	1.071E+04	1.418E+04	5.107E+03	7.108E+03	3.057E+03	4.383E+03	1.511E+03	2.237E+03
75	1.801E+04	2.309E+04	4.947E+03	1.279E+04	4.875E+03	6.864E+03	2.324E+03	3.393E+03	1.391E+03	2.072E+03	6.874E+02	1.043E+03
90	9.893E+03	1.348E+04	5.217E+03	7.364E+03	2.678E+03	3.883E+03	1.277E+03	1.883E+03	7.643E+02	1.131E+03	3.776E+02	5.696E+02
120	4.397E+03	6.556E+03	2.319E+03	3.436E+03	1.190E+03	1.753E+03	5.674E+02	7.827E+02	3.397E+02	4.479E+02	1.678E+02	2.036E+02
150	2.841E+03	4.512E+03	1.498E+03	2.266E+03	7.691E+02	1.077E+03	3.667E+02	4.533E+02	2.195E+02	2.420E+02	1.085E+02	9.608E+01
179	2.474E+03	4.025E+03	1.304E+03	1.986E+03	6.696E+02	9.218E+02	3.192E+02	3.741E+02	1.911E+02	1.928E+02	9.442E+01	7.276E+01

DY (46)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	9.987E+09	1.004E+10	6.871E+09	6.911E+09	3.929E+09	3.954E+09	2.174E+09	2.189E+09	1.100E+09	1.108E+09	6.720E+08	6.769E+08
2	6.243E+08	6.307E+08	4.295E+08	4.343E+08	2.456E+08	2.486E+08	1.359E+08	1.377E+08	6.877E+07	6.971E+07	4.200E+07	4.259E+07
3	1.233E+08	1.252E+08	8.486E+07	8.624E+07	4.853E+07	4.940E+07	2.685E+07	2.737E+07	1.359E+07	1.387E+07	8.299E+06	8.474E+06
4	3.904E+07	3.981E+07	2.686E+07	2.744E+07	1.536E+07	1.573E+07	8.499E+06	8.720E+06	4.301E+06	4.420E+06	2.627E+06	2.701E+06
6	7.719E+06	7.951E+06	5.311E+06	5.487E+06	3.037E+06	3.150E+06	1.680E+06	1.748E+06	8.504E+05	8.868E+05	5.194E+05	5.423E+05
8	2.446E+06	2.548E+06	1.683E+06	1.760E+06	9.624E+05	1.012E+06	5.325E+05	5.624E+05	2.695E+05	2.856E+05	1.646E+05	1.747E+05
10	1.004E+06	1.059E+06	6.906E+05	7.324E+05	3.949E+05	4.218E+05	2.185E+05	2.346E+05	1.106E+05	1.192E+05	6.754E+04	7.296E+04
15	1.995E+05	2.183E+05	1.373E+05	1.515E+05	7.851E+04	8.762E+04	4.344E+04	4.882E+04	2.198E+04	2.485E+04	1.343E+04	1.522E+04
20	6.370E+04	7.269E+04	4.383E+04	5.055E+04	2.506E+04	2.959E+04	1.387E+04	1.637E+04	7.017E+03	8.344E+03	4.286E+03	5.114E+03
30	1.291E+04	1.611E+04	8.880E+03	1.123E+04	5.078E+03	6.559E+03	2.810E+03	3.657E+03	1.422E+03	1.867E+03	8.684E+02	1.145E+03
45	2.700E+03	3.790E+03	1.858E+03	2.644E+03	1.063E+03	1.546E+03	5.879E+02	8.602E+02	2.975E+02	4.390E+02	1.817E+02	2.692E+02
60	9.266E+02	1.396E+03	6.376E+02	9.708E+02	3.646E+02	5.618E+02	2.017E+02	3.134E+02	1.021E+02	1.595E+02	6.235E+01	9.768E+01
75	4.217E+02	6.448E+02	2.901E+02	4.454E+02	1.659E+02	2.555E+02	9.180E+01	1.416E+02	4.646E+01	7.168E+01	2.837E+01	4.378E+01
90	2.317E+02	3.392E+02	1.594E+02	2.318E+02	9.115E+01	1.311E+02	5.043E+01	7.181E+01	2.552E+01	3.602E+01	1.559E+01	2.191E+01
120	1.030E+02	1.173E+02	7.084E+01	7.682E+01	4.051E+01	4.099E+01	2.241E+01	2.132E+01	1.134E+01	1.025E+01	6.928E+00	6.105E+00
150	6.653E+01	5.108E+01	4.578E+01	3.067E+01	2.618E+01	1.820E+01	1.448E+01	6.339E+00	7.329E+00	2.610E+00	4.477E+00	1.425E+00
179	5.792E+01	3.522E+01	3.985E+01	1.962E+01	2.279E+01	7.791E+00	1.261E+01	2.762E+00	6.381E+00	7.879E+01	3.897E+00	3.088E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	3.296E+08	3.321E+08	1.963E+08	1.978E+08	1.304E+08	1.314E+08	6.965E+07	7.018E+07	3.541E+07	3.5.8E+07	1.622E+07	1.634E+07
2	2.061E+07	2.090E+07	1.227E+07	1.245E+07	8.152E+06	8.270E+06	4.354E+06	4.417E+06	2.213E+06	2.246E+06	1.014E+06	1.029E+06
3	4.071E+06	4.159E+06	2.425E+06	2.477E+06	1.611E+06	1.646E+06	8.603E+05	8.791E+05	4.373E+05	4.469E+05	2.003E+05	2.047E+05
4	1.289E+06	1.326E+06	7.675E+05	7.899E+05	5.098E+05	5.248E+05	2.723E+05	2.803E+05	1.384E+05	1.425E+05	6.339E+04	6.527E+04
6	2.548E+05	2.663E+05	1.518E+05	1.586E+05	1.008E+05	1.054E+05	5.384E+04	5.630E+04	2.737E+04	2.862E+04	1.254E+04	1.311E+04
8	8.074E+04	8.580E+04	4.808E+04	5.113E+04	3.194E+04	3.397E+04	1.706E+04	1.815E+04	8.672E+03	9.227E+03	3.972E+03	4.227E+03
10	3.313E+04	3.585E+04	1.973E+04	2.136E+04	1.311E+04	1.430E+04	7.000E+03	7.584E+03	3.558E+03	3.856E+03	1.630E+03	1.766E+03
15	6.586E+03	7.483E+03	3.922E+03	4.461E+03	2.606E+03	2.965E+03	1.392E+03	1.584E+03	7.074E+02	8.055E+02	3.240E+02	3.690E+02
20	2.102E+03	2.516E+03	1.252E+03	1.500E+03	8.318E+02	9.970E+02	4.442E+02	5.328E+02	2.258E+02	2.709E+02	1.034E+02	1.241E+02
30	4.260E+02	5.635E+02	2.537E+02	3.361E+02	1.685E+02	2.234E+02	9.002E+01	1.194E+02	4.576E+01	6.071E+01	2.095E+01	2.781E+01
45	8.913E+01	1.325E+02	5.309E+01	7.900E+01	3.527E+01	5.251E+01	1.883E+01	2.806E+01	9.574E+00	1.427E+01	4.385E+00	6.537E+00
60	3.059E+01	4.802E+01	1.822E+01	2.862E+01	1.210E+01	1.902E+01	6.463E+00	1.016E+01	3.285E+00	5.167E+00	1.505E+00	2.367E+00
75	1.392E+01	2.148E+01	8.290E+00	1.279E+01	5.507E+00	8.496E+00	2.941E+00	4.537E+00	1.495E+00	2.306E+00	6.848E+01	1.056E+00
90	7.647E+00	1.071E+01	4.554E+00	6.366E+00	3.025E+00	4.226E+00	1.616E+00	2.255E+00	8.213E+01	1.146E+00	3.762E+01	5.247E+01
120	3.398E+00	2.928E+00	2.024E+00	1.728E+00	1.345E+00	1.142E+00	7.181E+01	6.073E+01	3.650E+01	3.079E+01	1.672E+01	1.408E+01
150	2.196E+00	6.263E+01	1.363E+00	3.552E+01	8.688E+01	2.300E+01	4.640E+01	1.198E+01	2.359E+01	6.003E+02	1.080E+01	2.727E+02
179	1.912E+00	7.768E+02	1.139E+00	2.815E+02	7.564E+01	1.240E+02	4.040E+01	3.677E+03	2.054E+01	9.839E+04	9.406E+02	2.219E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	9.265E+06	9.336E+06	4.184E+06	4.216E+06	2.373E+06	2.391E+06	1.526E+06	1.538E+06	7.831E+05	7.891E+05	3.854E+05	3.883E+05
2	5.792E+05	5.877E+05	2.616E+05	2.654E+05	1.483E+05	1.505E+05	9.540E+04	9.681E+04	4.895E+04	4.967E+04	2.409E+04	2.445E+04
3	1.144E+05	1.169E+05	5.168E+04	5.282E+04	2.931E+04	2.995E+04	1.885E+04	1.926E+04	9.672E+03	9.885E+03	4.760E+03	4.864E+03
4	3.622E+04	3.729E+04	1.636E+04	1.684E+04	9.276E+03	9.551E+03	5.966E+03	6.134E+03	3.061E+03	3.152E+03	1.507E+03	1.551E+03
6	7.162E+03	7.491E+03	3.234E+03	3.383E+03	1.834E+03	1.919E+03	1.180E+03	1.234E+03	6.053E+02	6.332E+02	2.979E+02	3.116E+02
8	2.269E+03	2.415E+03	1.025E+03	1.091E+03	5.812E+02	6.185E+02	3.738E+02	3.978E+02	1.918E+02	2.041E+02	9.439E+01	1.004E+02
10	9.312E+02	1.009E+03	4.205E+02	4.558E+02	2.385E+02	2.585E+02	1.534E+02	1.662E+02	7.871E+01	8.530E+01	3.873E+01	4.198E+01
15	1.851E+02	2.108E+02	8.360E+01	9.522E+01	4.741E+01	5.400E+01	3.049E+01	3.473E+01	1.565E+01	1.782E+01	7.700E+00	8.770E+00
20	5.909E+01	7.091E+01	2.669E+01	3.203E+01	1.513E+01	1.816E+01	9.734E+00	1.168E+01	4.995E+00	5.994E+00	2.458E+00	2.950E+00
30	1.197E+01	1.589E+01	5.408E+00	7.178E+00	3.067E+00	4.071E+00	1.972E+00	2.618E+00	1.012E+00	1.343E+00	4.981E+01	6.611E+01
45	2.505E+00	3.735E+00	1.131E+00	1.687E+00	6.417E+00	9.547E+01	4.127E+01	6.154E+01	2.118E+01	3.157E+01	1.042E+01	1.554E+01
60	8.597E+01	1.352E+00	3.883E+01	6.108E+01	2.202E+01	3.448E+01	1.416E+01	2.228E+01	7.266E+02	1.413E+01	3.576E+02	5.626E+02
75	3.912E+01	6.036E+01	1.767E+01	2.726E+01	1.002E+01	1.546E+01	6.445E+02	9.942E+02	3.307E+02	5.101E+02	1.627E+02	2.510E+02
90	2.149E+01	2.998E+01	9.706E+02	1.354E+01	5.504E+02	7.676E+02	3.540E+02	4.937E+02	1.817E+02	2.533E+02	8.940E+03	1.247E+02
120	9.552E+02	8.041E+02	4.314E+02	3.630E+02	2.446E+02	2.068E+02	1.573E+02	1.324E+02	8.074E+03	6.792E+03	3.973E+03	3.342E+03
150	6.172E+02	1.554E+02	2.788E+02	7.001E+03	1.581E+02	3.947E+03	1.017E+02	2.550E+03	5.217E+03	1.308E+03	2.567E+03	6.437E+04
179	5.374E+02	7.930E+05	2.427E+02	2.011E+05	1.376E+02	8.255E+06	8.522E+03	4.334E+06	4.542E+03	1.704E+06	2.235E+03	7.692E+07

MO (67)

(BARN/STERADIAN)

1472

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.005E+15	1.076E+15	4.471E+14	4.474E+14	2.517E+14	2.519E+14	1.121E+14	1.122E+14	6.318E+13	6.322E+13	4.051E+13	4.054E+13
2	6.282E+13	6.280E+13	2.795E+13	2.796E+13	1.574E+13	1.575E+13	7.007E+12	7.012E+12	3.949E+12	3.952E+12	2.532E+12	2.534E+12
3	1.241E+13	1.242E+13	5.522E+12	5.525E+12	3.109E+12	3.111E+12	1.384E+12	1.386E+12	7.803E+11	7.809E+11	5.003E+11	5.008E+11
4	3.929E+12	3.931E+12	1.748E+12	1.749E+12	9.841E+11	9.848E+11	4.382E+11	4.386E+11	2.470E+11	2.472E+11	1.584E+11	1.585E+11
6	7.768E+11	7.774E+11	3.456E+11	3.459E+11	1.946E+11	1.948E+11	8.665E+10	8.675E+10	4.883E+10	4.889E+10	3.131E+10	3.136E+10
8	2.461E+11	2.463E+11	1.095E+11	1.096E+11	6.165E+10	6.171E+10	2.746E+10	2.749E+10	1.547E+10	1.550E+10	9.922E+09	9.940E+09
10	1.010E+11	1.011E+11	4.493E+10	4.498E+10	2.530E+10	2.533E+10	1.127E+10	1.128E+10	6.350E+09	6.362E+09	4.072E+09	4.077E+09
15	2.008E+10	2.010E+10	8.932E+09	8.946E+09	5.029E+09	5.034E+09	2.240E+09	2.244E+09	1.262E+09	1.264E+09	8.094E+08	8.120E+08
20	6.410E+09	6.416E+09	2.852E+09	2.854E+09	1.606E+09	1.609E+09	7.150E+08	7.157E+08	4.029E+08	4.046E+08	2.584E+08	2.594E+08
30	1.299E+09	1.300E+09	5.778E+08	5.783E+08	3.253E+08	3.268E+08	1.449E+08	1.455E+08	8.165E+07	8.166E+07	5.236E+07	5.239E+07
45	2.717E+08	2.715E+08	1.209E+08	1.216E+08	6.807E+07	6.803E+07	3.031E+07	3.032E+07	1.708E+07	1.728E+07	1.095E+07	1.114E+07
60	9.325E+07	9.341E+07	4.148E+07	4.117E+07	2.366E+07	2.348E+07	1.040E+07	1.061E+07	5.862E+06	5.943E+06	3.759E+06	3.765E+06
75	4.244E+07	4.233E+07	1.888E+07	1.937E+07	1.063E+07	1.089E+07	4.733E+06	4.708E+06	2.668E+06	2.591E+06	1.711E+06	1.642E+06
90	2.331E+07	2.413E+07	1.037E+07	1.033E+07	5.839E+06	5.618E+06	2.600E+06	2.427E+06	1.466E+06	1.369E+06	9.397E+05	8.902E+05
120	1.036E+07	9.251E+06	4.609E+06	4.316E+06	2.595E+06	2.547E+06	1.156E+06	1.223E+06	6.513E+05	7.281E+05	4.177E+05	4.867E+05
150	6.695E+06	8.728E+06	2.978E+06	4.087E+06	1.677E+06	2.381E+06	7.468E+05	1.109E+06	4.289E+05	6.439E+05	2.659E+05	4.216E+05
179	5.829E+06	9.185E+06	2.593E+06	4.205E+06	1.460E+06	2.415E+06	6.502E+05	1.105E+06	3.664E+05	6.335E+05	2.350E+05	4.112E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.075E+13	2.076E+13	1.023E+13	1.023E+13	4.588E+12	4.592E+12	2.605E+12	2.607E+12	1.179E+12	1.180E+12	6.750E+11	6.761E+11
2	1.297E+12	1.298E+12	6.392E+11	6.399E+11	2.868E+11	2.871E+11	1.628E+11	1.631E+11	7.369E+10	7.384E+10	4.219E+10	4.230E+10
3	2.563E+11	2.565E+11	1.263E+11	1.265E+11	5.666E+10	5.676E+10	3.217E+10	3.224E+10	1.456E+10	1.460E+10	8.337E+09	8.365E+09
4	8.111E+10	8.122E+10	3.997E+10	4.003E+10	1.793E+10	1.798E+10	1.018E+10	1.021E+10	4.609E+09	4.623E+09	2.639E+09	2.651E+09
6	1.604E+10	1.606E+10	7.904E+09	7.922E+09	3.546E+09	3.557E+09	2.013E+09	2.019E+09	9.113E+08	9.160E+08	5.217E+08	5.257E+08
8	5.082E+09	5.090E+09	2.504E+09	2.513E+09	1.124E+09	1.127E+09	6.379E+08	6.405E+08	2.887E+08	2.910E+08	1.653E+08	1.670E+08
10	2.085E+09	2.091E+09	1.028E+09	1.031E+09	4.611E+08	4.625E+08	2.618E+08	2.633E+08	1.185E+08	1.197E+08	6.784E+07	6.863E+07
15	4.145E+08	4.160E+08	2.043E+08	2.048E+08	9.165E+07	9.237E+07	5.204E+07	5.267E+07	2.355E+07	2.385E+07	1.349E+07	1.364E+07
20	1.323E+08	1.325E+08	6.522E+07	6.560E+07	2.926E+07	2.966E+07	1.661E+07	1.684E+07	7.519E+06	7.590E+06	4.305E+06	4.340E+06
30	2.681E+07	2.707E+07	1.321E+07	1.342E+07	5.929E+06	5.988E+06	3.366E+06	3.376E+06	1.524E+06	1.526E+06	8.721E+05	8.821E+05
45	5.610E+06	5.681E+06	2.765E+06	2.760E+06	1.241E+06	1.227E+06	7.043E+05	7.007E+05	3.188E+05	3.268E+05	1.825E+05	1.934E+05
60	1.925E+06	1.892E+06	9.488E+05	9.266E+05	4.257E+05	4.242E+05	2.417E+05	2.484E+05	1.094E+05	1.193E+05	6.263E+04	7.167E+04
75	8.761E+05	8.420E+05	4.318E+05	4.21E+05	1.937E+05	2.019E+05	1.100E+05	1.203E+05	4.978E+04	5.857E+04	2.850E+04	3.528E+04
90	4.813E+05	4.742E+05	2.372E+05	2.476E+05	1.064E+05	1.196E+05	6.042E+04	7.162E+04	2.735E+04	3.477E+04	1.566E+04	2.081E+04
120	2.139E+05	2.646E+05	1.054E+05	1.381E+05	4.733E+04	6.554E+04	2.685E+04	3.844E+04	1.215E+04	1.800E+04	6.959E+03	1.046E+04
150	1.382E+05	2.221E+05	6.812E+04	1.122E+05	3.056E+04	5.126E+04	1.735E+04	2.927E+04	7.854E+03	1.317E+04	4.407E+03	7.422E+03
179	1.203E+05	2.139E+05	5.931E+04	1.067E+05	2.661E+04	4.807E+04	1.511E+04	2.717E+04	6.838E+03	1.204E+04	3.915E+03	6.704E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	4.395E+11	4.403E+11	2.318E+11	2.323E+11	1.190E+11	1.193E+11	5.672E+10	5.692E+10	3.395E+10	3.410E+10	1.678E+10	1.686E+10
2	2.747E+10	2.755E+10	1.444E+10	1.455E+10	7.437E+09	7.447E+09	3.545E+09	3.568E+09	2.122E+09	2.138E+09	1.049E+09	1.058E+09
3	5.428E+09	5.452E+09	2.863E+09	2.879E+09	1.469E+09	1.480E+09	7.005E+08	7.069E+08	4.194E+08	4.238E+08	2.072E+08	2.099E+08
4	1.718E+09	1.728E+09	9.061E+08	9.129E+08	4.651E+08	4.694E+08	2.217E+08	2.243E+08	1.327E+08	1.345E+08	6.558E+07	6.670E+07
6	3.397E+08	3.427E+08	1.792E+08	1.810E+08	9.197E+07	9.308E+07	4.384E+07	4.453E+07	2.625E+07	2.675E+07	1.297E+07	1.330E+07
8	1.076E+08	1.088E+08	5.677E+07	5.745E+07	2.914E+07	2.956E+07	1.389E+07	1.417E+07	8.316E+06	8.531E+06	4.109E+06	4.252E+06
10	4.417E+07	4.470E+07	2.329E+07	2.360E+07	1.196E+07	1.216E+07	5.700E+06	5.845E+06	3.413E+06	3.526E+06	1.686E+06	1.763E+06
15	8.781E+06	8.879E+06	4.631E+06	4.700E+06	2.377E+06	2.437E+06	1.133E+06	1.182E+06	6.784E+05	7.179E+05	3.362E+05	3.618E+05
20	2.803E+06	2.833E+06	1.478E+06	1.510E+06	7.588E+05	7.898E+05	3.618E+05	3.870E+05	2.166E+05	2.364E+05	1.070E+05	1.200E+05
30	5.680E+05	5.822E+05	2.995E+05	3.160E+05	1.538E+05	1.683E+05	7.330E+04	8.386E+04	4.388E+04	5.172E+04	2.188E+04	2.651E+04
45	1.188E+05	1.298E+05	6.267E+04	7.196E+04	3.217E+04	3.894E+04	1.534E+04	1.962E+04	9.181E+03	1.216E+04	4.536E+03	6.256E+03
60	4.078E+04	4.848E+04	2.151E+04	2.704E+04	1.104E+04	1.465E+04	5.263E+03	7.364E+03	3.151E+03	4.547E+03	1.557E+03	2.326E+03
75	1.856E+04	2.384E+04	9.787E+03	1.323E+04	5.024E+03	7.110E+03	2.395E+03	3.529E+03	1.434E+03	2.158E+03	7.084E+02	1.088E+03
90	1.019E+04	1.396E+04	5.376E+03	7.647E+03	2.760E+03	4.042E+03	1.316E+03	1.984E+03	7.876E+02	1.182E+03	3.892E+02	5.831E+02
120	4.531E+03	6.840E+03	2.390E+03	3.590E+03	1.227E+03	1.899E+03	5.848E+02	8.209E+02	3.501E+02	4.693E+02	1.730E+02	2.142E+02
150	2.928E+03	4.733E+03	1.544E+03	2.379E+03	7.929E+02	1.132E+03	3.779E+02	4.769E+02	2.262E+02	2.548E+02	1.118E+02	1.033E+02
179	2.549E+03	4.231E+03	1.344E+03	2.089E+03	6.901E+02	9.703E+02	3.240E+02	3.941E+02	1.969E+02	2.032E+02	9.730E+01	7.669E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.029E+08	1.035E+10	7.081E+09	7.123E+09	4.049E+09	4.075E+09	2.240E+09	2.256E+09	1.134E+09	1.142E+09	6.925E+08	6.976E+08
2	6.433E+08	6.499E+08	4.426E+08	4.475E+08	2.531E+08	2.562E+08	1.400E+08	1.419E+08	7.087E+07	7.184E+07	4.329E+07	4.389E+07
3	1.271E+08	1.290E+08	8.746E+07	8.887E+07	5.001E+07	5.091E+07	2.767E+07	2.821E+07	1.400E+07	1.429E+07	8.553E+06	8.732E+06
4	4.023E+07	4.102E+07	2.768E+07	2.828E+07	1.583E+07	1.621E+07	8.758E+06	8.986E+06	4.432E+06	4.554E+06	2.707E+06	2.783E+06
6	7.955E+06	8.191E+06	5.474E+06	5.653E+06	3.130E+06	3.245E+06	1.732E+06	1.801E+06	9.764E+05	9.137E+05	5.353E+05	5.587E+05
8	2.521E+06	2.624E+06	1.734E+06	1.813E+06	9.918E+05	1.043E+06	5.487E+05	5.794E+05	2.777E+05	2.942E+05	1.696E+05	1.800E+05
10	1.034E+06	1.090E+06	7.117E+05	7.543E+05	4.070E+05	4.344E+05	2.252E+05	2.417E+05	1.139E+05	1.228E+05	6.960E+04	7.516E+04
15	2.056E+05	2.248E+05	1.415E+05	1.560E+05	8.090E+04	9.015E+04	4.476E+04	5.029E+04	2.265E+04	2.560E+04	1.384E+04	1.568E+04
20	6.564E+04	7.486E+04	4.516E+04	5.208E+04	2.583E+04	3.018E+04	1.429E+04	1.687E+04	7.231E+03	8.603E+03	4.417E+03	5.273E+03
30	1.330E+04	1.662E+04	9.151E+03	1.160E+04	5.233E+03	6.743E+03	2.895E+03	3.778E+03	1.465E+03	1.929E+03	8.949E+02	1.183E+03
45	2.783E+03	3.926E+03	1.915E+03	2.740E+03	1.095E+03	1.594E+03	6.058E+02	8.924E+02	3.066E+02	4.559E+02	1.872E+02	2.796E+02
60	9.549E+02	1.453E+03	6.570E+02	1.011E+03	3.757E+02	5.855E+02	2.079E+02	3.269E+02	1.052E+02	1.665E+02	6.425E+01	1.020E+02
75	4.346E+02	6.738E+02	2.990E+02	4.658E+02	1.710E+02	2.675E+02	9.460E+01	1.483E+02	4.787E+01	7.512E+01	2.924E+01	4.590E+01
90	2.387E+02	3.556E+02	1.643E+02	2.432E+02	9.393E+01	1.377E+02	5.197E+01	7.548E+01	2.630E+01	3.789E+01	1.606E+01	2.305E+01
120	1.061E+02	1.235E+02	7.300E+01	8.096E+01	4.175E+01	4.324E+01	2.310E+01	2.252E+01	1.169E+01	1.083E+01	7.139E+00	6.456E+00
150	6.856E+01	5.386E+01	4.717E+01	3.235E+01	2.698E+01	1.449E+01	1.493E+01	6.701E+00	7.553E+00	2.762E+00	4.613E+00	1.509E+00
179	5.969E+01	3.713E+01	4.107E+01	2.068E+01	2.349E+01	8.213E+00	1.299E+01	2.911E+00	6.576E+00	8.307E+00	4.016E+00	3.255E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	3.397E+08	3.423E+08	2.023E+08	2.039E+08	1.344E+08	1.354E+08	7.178E+07	7.233E+07	3.649E+07	3.676E+07	1.671E+07	1.684E+07
2	2.123E+07	2.154E+07	1.265E+07	1.283E+07	8.401E+06	8.522E+06	4.487E+06	4.552E+06	2.281E+06	2.314E+06	1.045E+06	1.060E+06
3	4.196E+06	4.286E+06	2.499E+06	2.553E+06	1.660E+06	1.696E+06	8.865E+05	9.059E+05	4.506E+05	4.605E+05	2.064E+05	2.109E+05
4	1.328E+06	1.366E+06	7.909E+05	8.139E+05	5.254E+05	5.408E+05	2.806E+05	2.888E+05	1.426E+05	1.468E+05	6.533E+04	6.726E+04
6	2.626E+05	2.743E+05	1.564E+05	1.634E+05	1.039E+05	1.086E+05	5.548E+04	5.801E+04	2.820E+04	2.949E+04	1.292E+04	1.351E+04
8	8.320E+04	8.840E+04	4.955E+04	5.268E+04	3.292E+04	3.500E+04	1.758E+04	1.870E+04	8.936E+03	9.506E+03	4.093E+03	4.354E+03
10	3.414E+04	3.693E+04	2.033E+04	2.201E+04	1.351E+04	1.463E+04	7.214E+03	7.814E+03	3.667E+03	3.972E+03	1.680E+03	1.820E+03
15	6.787E+03	7.711E+03	4.042E+03	4.597E+03	2.685E+03	3.055E+03	1.434E+03	1.632E+03	7.290E+02	8.300E+02	3.339E+02	3.802E+02
20	2.167E+03	2.594E+03	1.290E+03	1.547E+03	8.572E+02	1.028E+03	4.578E+02	5.494E+02	2.327E+02	2.794E+02	1.066E+02	1.280E+02
30	4.390E+02	5.825E+02	2.615E+02	3.474E+02	1.737E+02	2.310E+02	9.276E+01	1.234E+02	4.715E+01	6.277E+01	2.160E+01	2.876E+01
45	9.186E+01	1.376E+02	5.471E+01	8.207E+01	3.634E+01	5.455E+01	1.941E+01	2.916E+01	9.866E+00	1.483E+01	4.519E+00	6.792E+00
60	3.152E+01	5.013E+01	1.877E+01	2.988E+01	1.247E+01	1.986E+01	6.660E+00	1.061E+01	3.385E+00	5.395E+00	1.551E+00	2.471E+00
75	1.434E+01	2.252E+01	8.543E+00	1.341E+01	5.675E+00	8.910E+00	3.031E+00	4.758E+00	1.541E+00	2.419E+00	7.057E+00	1.108E+00
90	7.880E+00	1.127E+01	4.693E+00	6.701E+00	3.118E+00	4.448E+00	1.665E+00	2.374E+00	8.464E+01	1.206E+00	3.877E+01	5.523E+01
120	3.502E+00	3.098E+00	2.086E+00	1.828E+00	1.386E+00	1.209E+00	7.400E+01	6.426E+01	3.762E+01	3.258E+01	1.723E+01	1.490E+01
150	2.263E+00	6.641E-01	1.348E+00	3.768E-01	8.954E-01	2.440E-01	4.782E-01	1.272E-01	2.431E-01	6.372E-02	1.113E-01	2.895E-02
179	1.970E+00	8.189E-02	1.173E+00	2.968E-02	7.795E-01	1.359E-02	4.163E-01	3.877E-03	2.116E-01	1.038E-03	9.693E-02	2.342E-04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	9.548E+06	9.621E+06	4.312E+06	4.345E+06	2.445E+06	2.464E+06	1.573E+06	1.585E+06	8.070E+05	8.132E+05	3.971E+05	4.002E+05
2	5.969E+05	6.055E+05	2.695E+05	2.735E+05	1.529E+05	1.551E+05	9.832E+04	9.974E+04	5.045E+04	5.118E+04	2.483E+04	2.519E+04
3	1.179E+05	1.205E+05	5.326E+04	5.443E+04	3.020E+04	3.087E+04	1.943E+04	1.985E+04	9.967E+03	1.019E+04	4.905E+03	5.013E+03
4	3.733E+04	3.843E+04	1.686E+04	1.735E+04	9.560E+03	9.842E+03	6.148E+03	6.330E+03	3.155E+03	3.248E+03	1.553E+03	1.598E+03
6	7.381E+03	7.718E+03	3.333E+03	3.486E+03	1.890E+03	1.977E+03	1.216E+03	1.271E+03	6.238E+02	6.524E+02	3.070E+02	3.210E+02
8	2.339E+03	2.488E+03	1.056E+03	1.124E+03	5.989E+02	6.372E+02	3.852E+02	4.098E+02	1.977E+02	2.103E+02	9.727E+01	1.035E+02
10	9.596E+02	1.040E+03	4.334E+02	4.696E+02	2.458E+02	2.663E+02	1.581E+02	1.713E+02	8.111E+01	8.788E+01	3.992E+01	4.325E+01
15	1.908E+02	2.173E+02	8.615E+01	9.812E+01	4.886E+01	5.565E+01	3.142E+01	3.579E+01	1.612E+01	1.836E+01	7.935E+00	9.037E+00
20	6.090E+01	7.131E+01	2.750E+01	3.303E+01	1.560E+01	1.873E+01	1.003E+01	1.205E+01	5.147E+00	6.181E+00	2.533E+00	3.042E+00
30	1.234E+01	1.643E+01	5.573E+00	7.421E+00	3.160E+00	4.209E+00	2.033E+00	2.707E+00	1.043E+00	1.389E+00	5.133E+01	6.835E+01
45	2.582E+00	3.881E+00	1.166E+00	1.753E+00	6.612E+01	9.940E+01	4.253E+01	6.393E+01	2.182E+01	3.280E+01	1.074E+01	1.614E+01
60	8.860E+00	1.412E+00	4.001E+01	6.377E+01	2.267E+01	3.617E+01	1.459E+01	2.326E+01	7.488E+02	1.194E+01	3.685E+02	5.874E+02
75	4.032E+01	6.330E+01	1.821E+01	2.859E+01	1.033E+01	1.621E+01	6.641E+02	1.043E+01	3.408E+02	5.350E+02	1.677E+02	2.633E+02
90	2.215E+01	3.155E+01	1.000E+01	1.425E+01	5.673E+02	8.080E+02	3.648E+02	5.197E+02	1.872E+02	2.667E+02	9.213E+03	1.312E+02
120	9.844E+02	8.510E+02	4.446E+02	3.842E+02	2.521E+02	2.178E+02	1.622E+02	1.401E+02	8.320E+03	7.188E+02	4.044E+03	3.537E+03
150	6.361E+02	1.649E+02	2.873E+02	7.431E+03	1.629E+02	4.211E+03	1.048E+02	2.707E+03	5.376E+03	1.389E+03	2.646E+03	6.833E+04
179	5.532E+02	8.373E+05	2.501E+02	2.126E+05	1.418E+02	8.705E+06	9.122E+03	4.591E+06	4.681E+03	1.902E+06	2.303E+03	8.164E+07

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.035E+15	1.036E+15	4.605E+14	4.608E+14	2.593E+14	2.595E+14	1.155E+14	1.155E+14	6.508E+13	6.512E+13	4.173E+13	4.176E+13
2	6.471E+13	6.475E+13	2.879E+13	2.881E+13	1.621E+13	1.622E+13	7.218E+12	7.223E+12	4.068E+12	4.071E+12	2.609E+12	2.611E+12
3	1.279E+13	1.279E+13	5.688E+12	5.692E+12	3.203E+12	3.205E+12	1.426E+12	1.427E+12	8.037E+11	8.044E+11	5.154E+11	5.159E+11
4	4.047E+12	4.049E+12	1.800E+12	1.802E+12	1.014E+12	1.014E+12	4.514E+11	4.518E+11	2.544E+11	2.547E+11	1.631E+11	1.633E+11
6	8.002E+11	8.007E+11	3.560E+11	3.563E+11	2.004E+11	2.006E+11	8.925E+10	8.935E+10	5.030E+10	5.036E+10	3.226E+10	3.230E+10
8	2.535E+11	2.537E+11	1.128E+11	1.129E+11	6.351E+10	6.356E+10	2.828E+10	2.831E+10	1.594E+10	1.596E+10	1.022E+10	1.024E+10
10	1.040E+11	1.041E+11	4.628E+10	4.634E+10	2.606E+10	2.609E+10	1.161E+10	1.162E+10	6.540E+09	6.554E+09	4.194E+09	4.200E+09
15	2.068E+10	2.071E+10	9.201E+09	9.211E+09	5.181E+09	5.185E+09	2.307E+09	2.312E+09	1.300E+09	1.302E+09	8.337E+08	8.363E+08
20	6.602E+09	6.608E+09	2.937E+09	2.939E+09	1.654E+09	1.658E+09	7.365E+08	7.371E+08	4.151E+08	4.167E+08	2.662E+08	2.673E+08
30	1.338E+09	1.339E+09	5.952E+08	5.960E+08	3.351E+08	3.355E+08	1.492E+08	1.500E+08	8.410E+07	8.415E+07	5.393E+07	5.394E+07
45	2.799E+08	2.795E+08	1.245E+08	1.253E+08	7.011E+07	7.013E+07	3.122E+07	3.120E+07	1.760E+07	1.774E+07	1.128E+07	1.147E+07
60	9.605E+07	9.639E+07	4.273E+07	4.237E+07	2.406E+07	2.414E+07	1.071E+07	1.094E+07	6.038E+06	6.135E+06	3.872E+06	3.888E+06
75	4.371E+07	4.341E+07	1.945E+07	1.994E+07	1.095E+07	1.124E+07	4.876E+06	4.865E+06	2.748E+06	2.674E+06	1.762E+06	1.692E+06
90	2.401E+07	2.492E+07	1.068E+07	1.069E+07	6.015E+06	5.805E+06	2.678E+06	2.497E+06	1.510E+06	1.405E+06	9.680E+05	9.123E+05
120	1.067E+07	9.463E+06	4.748E+06	4.409E+06	2.673E+06	2.603E+06	1.190E+06	1.257E+06	6.709E+05	7.468E+05	4.302E+05	5.000E+05
150	6.896E+06	9.015E+06	3.068E+06	4.228E+06	1.727E+06	2.467E+06	7.692E+05	1.151E+06	4.335E+05	6.689E+05	2.780E+05	4.384E+05
179	6.004E+06	9.559E+06	2.671E+06	4.380E+06	1.504E+06	2.517E+06	6.697E+05	1.152E+06	3.775E+05	6.613E+05	2.420E+05	4.295E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.137E+13	2.139E+13	1.053E+13	1.054E+13	4.726E+12	4.730E+12	2.683E+12	2.686E+12	1.214E+12	1.216E+12	6.953E+11	6.964E+11
2	1.336E+12	1.337E+12	6.584E+11	6.591E+11	2.954E+11	2.958E+11	1.677E+11	1.680E+11	7.591E+10	7.607E+10	4.346E+10	4.356E+10
3	2.640E+11	2.642E+11	1.301E+11	1.303E+11	5.836E+10	5.846E+10	3.314E+10	3.321E+10	1.500E+10	1.504E+10	8.587E+09	8.616E+09
4	8.355E+10	8.367E+10	4.118E+10	4.123E+10	1.847E+10	1.852E+10	1.049E+10	1.052E+10	4.747E+09	4.762E+09	2.718E+09	2.730E+09
6	1.652E+10	1.655E+10	8.142E+09	8.159E+09	3.653E+09	3.664E+09	2.074E+09	2.080E+09	9.387E+08	9.435E+08	5.374E+08	5.414E+08
8	5.235E+09	5.243E+09	2.580E+09	2.588E+09	1.157E+09	1.161E+09	6.571E+08	6.596E+08	2.974E+08	2.997E+08	1.703E+08	1.720E+08
10	2.148E+09	2.154E+09	1.059E+09	1.062E+09	4.749E+08	4.744E+08	2.697E+08	2.712E+08	1.220E+08	1.233E+08	6.988E+07	7.072E+07
15	4.270E+08	4.287E+08	2.104E+08	2.109E+08	9.441E+07	9.511E+07	5.360E+07	5.425E+07	2.426E+07	2.459E+07	1.389E+07	1.406E+07
20	1.363E+08	1.365E+08	6.718E+07	6.753E+07	3.014E+07	3.055E+07	1.711E+07	1.736E+07	7.745E+06	7.825E+06	4.435E+06	4.472E+06
30	2.762E+07	2.786E+07	1.361E+07	1.383E+07	6.107E+06	6.176E+06	3.467E+06	3.481E+06	1.569E+06	1.573E+06	8.986E+05	9.071E+05
45	5.779E+06	5.862E+06	2.848E+06	2.848E+06	1.278E+06	1.263E+06	7.255E+05	7.204E+05	3.284E+05	3.354E+05	1.880E+05	1.985E+05
60	1.983E+06	1.951E+06	9.773E+05	9.534E+05	4.385E+05	4.354E+05	2.489E+05	2.548E+05	1.127E+05	1.224E+05	6.451E+04	7.362E+04
75	9.025E+05	8.650E+05	4.448E+05	4.369E+05	1.995E+05	2.070E+05	1.133E+05	1.234E+05	5.128E+04	6.021E+04	2.936E+04	3.634E+04
90	4.958E+05	4.855E+05	2.443E+05	2.536E+05	1.096E+05	1.289E+05	6.224E+04	7.355E+04	2.817E+04	3.586E+04	1.613E+04	2.151E+04
120	2.203E+05	2.725E+05	1.086E+05	1.426E+05	4.872E+04	6.784E+04	2.766E+04	3.987E+04	1.252E+04	1.872E+04	7.168E+03	1.089E+04
150	1.424E+05	2.313E+05	7.017E+04	1.169E+05	3.148E+04	5.353E+04	1.787E+04	3.060E+04	8.090E+03	1.374E+04	4.632E+03	7.777E+03
179	1.240E+05	2.236E+05	6.109E+04	1.116E+05	2.741E+04	5.035E+04	1.556E+04	2.848E+04	7.043E+03	1.264E+04	4.033E+03	7.042E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	4.527E+11	4.535E+11	2.387E+11	2.393E+11	1.226E+11	1.229E+11	5.842E+10	5.865E+10	3.498E+10	3.512E+10	1.728E+10	1.737E+10
2	2.830E+10	2.838E+10	1.492E+10	1.498E+10	7.661E+09	7.700E+09	3.652E+09	3.676E+09	2.186E+09	2.203E+09	1.080E+09	1.090E+09
3	5.591E+09	5.615E+09	2.949E+09	2.966E+09	1.514E+09	1.525E+09	7.216E+08	7.282E+08	4.320E+08	4.366E+08	2.134E+08	2.162E+08
4	1.770E+09	1.780E+09	9.333E+08	9.404E+08	4.791E+08	4.846E+08	2.284E+08	2.310E+08	1.367E+08	1.386E+08	6.756E+07	6.870E+07
6	3.499E+08	3.531E+08	1.845E+08	1.865E+08	9.473E+07	9.589E+07	4.516E+07	4.587E+07	2.704E+07	2.755E+07	1.336E+07	1.369E+07
8	1.109E+08	1.121E+08	5.847E+07	5.919E+07	3.002E+07	3.045E+07	1.431E+07	1.459E+07	8.566E+06	8.784E+06	4.233E+06	4.378E+06
10	4.550E+07	4.606E+07	2.400E+07	2.431E+07	1.232E+07	1.252E+07	5.872E+06	6.018E+06	3.515E+06	3.630E+06	1.737E+06	1.815E+06
15	9.045E+06	9.149E+06	4.770E+06	4.840E+06	2.449E+06	2.508E+06	1.167E+06	1.216E+06	6.988E+05	7.385E+05	3.453E+05	3.723E+05
20	2.887E+06	2.917E+06	1.523E+06	1.553E+06	7.817E+05	8.121E+05	3.726E+05	3.979E+05	2.231E+05	2.432E+05	1.102E+05	1.235E+05
30	5.851E+05	5.983E+05	3.085E+05	3.246E+05	1.584E+05	1.759E+05	7.551E+04	8.623E+04	4.520E+04	5.322E+04	2.233E+04	2.731E+04
45	1.224E+05	1.333E+05	6.456E+04	7.395E+04	3.314E+04	4.008E+04	1.589E+04	2.023E+04	9.458E+03	1.255E+04	4.673E+03	6.470E+03
60	4.201E+04	4.985E+04	2.215E+04	2.786E+04	1.137E+04	1.513E+04	5.421E+03	7.624E+03	3.245E+03	4.715E+03	1.603E+03	2.416E+03
75	1.912E+04	2.460E+04	1.008E+04	1.368E+04	5.175E+03	7.371E+03	2.467E+03	3.668E+03	1.477E+03	2.247E+03	7.297E+02	1.135E+03
90	1.050E+04	1.446E+04	5.538E+03	7.937E+03	2.843E+03	4.205E+03	1.355E+03	2.049E+03	8.113E+02	1.235E+03	4.009E+02	6.104E+02
120	4.667E+03	7.132E+03	2.461E+03	3.750E+03	1.263E+03	1.847E+03	6.023E+02	8.606E+02	3.606E+02	4.926E+02	1.782E+02	2.258E+02
150	3.016E+03	4.963E+03	1.590E+03	2.497E+03	8.164E+02	1.149E+03	3.892E+02	5.016E+02	2.330E+02	2.682E+02	1.151E+02	1.089E+02
179	2.626E+03	4.447E+03	1.385E+03	2.197E+03	7.108E+02	1.021E+03	3.389E+02	4.150E+02	2.029E+02	2.140E+02	1.002E+02	8.081E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.060E+10	1.066E+10	7.294E+09	7.338E+09	4.171E+09	4.198E+09	2.308E+09	2.324E+09	1.168E+09	1.176E+09	7.133E+08	7.186E+08
2	6.627E+08	6.695E+08	4.559E+08	4.610E+08	2.607E+08	2.639E+08	1.443E+08	1.461E+08	7.300E+07	7.399E+07	4.459E+07	4.521E+07
3	1.309E+08	1.329E+08	9.009E+07	9.154E+07	5.152E+07	5.244E+07	2.850E+07	2.905E+07	1.442E+07	1.472E+07	8.810E+06	8.995E+06
4	4.144E+07	4.225E+07	2.851E+07	2.912E+07	1.631E+07	1.669E+07	9.022E+06	9.255E+06	4.565E+06	4.690E+06	2.788E+06	2.867E+06
6	8.194E+06	8.435E+06	5.638E+06	5.821E+06	3.224E+06	3.342E+06	1.784E+06	1.855E+06	9.027E+05	9.409E+05	5.514E+05	5.753E+05
8	2.594E+06	2.702E+06	1.786E+06	1.867E+06	1.022E+06	1.074E+06	5.652E+05	5.966E+05	2.860E+05	3.029E+05	1.747E+05	1.853E+05
10	1.065E+06	1.122E+06	7.331E+05	7.765E+05	4.192E+05	4.472E+05	2.319E+05	2.488E+05	1.174E+05	1.265E+05	7.169E+04	7.739E+04
15	2.118E+05	2.313E+05	1.457E+05	1.605E+05	8.334E+04	9.281E+04	4.611E+04	5.178E+04	2.333E+04	2.637E+04	1.425E+04	1.615E+04
20	6.761E+04	7.705E+04	4.652E+04	5.362E+04	2.660E+04	3.109E+04	1.472E+04	1.738E+04	7.449E+03	8.865E+03	4.550E+03	5.433E+03
30	1.370E+04	1.713E+04	9.426E+03	1.196E+04	5.391E+03	6.958E+03	2.983E+03	3.900E+03	1.509E+03	1.993E+03	9.218E+02	1.222E+03
45	2.867E+03	4.065E+03	1.972E+03	2.839E+03	1.128E+03	1.652E+03	6.240E+02	9.262E+02	3.158E+02	4.731E+02	1.929E+02	2.902E+02
60	9.836E+02	1.511E+03	6.768E+02	1.052E+03	3.870E+02	6.100E+02	2.141E+02	3.408E+02	1.084E+02	1.736E+02	6.619E+01	1.064E+02
75	4.476E+02	7.037E+02	3.080E+02	4.869E+02	1.761E+02	2.799E+02	9.745E+01	1.553E+02	4.931E+01	7.870E+01	3.012E+01	4.809E+01
90	2.459E+02	3.727E+02	1.692E+02	2.551E+02	9.676E+01	1.446E+02	5.353E+01	7.932E+01	2.709E+01	3.984E+01	1.655E+01	2.424E+01
120	1.093E+02	1.300E+02	7.520E+01	8.529E+01	4.300E+01	4.561E+01	2.379E+01	2.378E+01	1.204E+01	1.145E+01	7.354E+00	6.825E+00
150	7.062E+01	5.677E+01	4.859E+01	3.412E+01	2.779E+01	1.583E+01	1.537E+01	7.983E+00	7.780E+00	2.924E+00	4.752E+00	1.599E+00
179	6.149E+01	3.913E+01	4.231E+01	2.180E+01	2.419E+01	8.658E+00	1.339E+01	3.069E+00	6.774E+00	8.757E+01	4.137E+00	3.432E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	3.499E+08	3.526E+08	2.084E+08	2.100E+08	1.384E+08	1.395E+08	7.394E+07	7.450E+07	3.758E+07	3.747E+07	1.721E+07	1.735E+07
2	2.187E+07	2.218E+07	1.303E+07	1.321E+07	8.654E+06	8.779E+06	4.622E+06	4.689E+06	2.349E+06	2.383E+06	1.076E+06	1.092E+06
3	4.322E+06	4.414E+06	2.574E+06	2.630E+06	1.710E+06	1.747E+06	9.132E+05	9.331E+05	4.642E+05	4.743E+05	2.126E+05	2.173E+05
4	1.368E+06	1.407E+06	8.147E+05	8.383E+05	5.412E+05	5.570E+05	2.890E+05	2.975E+05	1.469E+05	1.512E+05	6.730E+04	6.927E+04
6	2.705E+05	2.825E+05	1.611E+05	1.683E+05	1.070E+05	1.118E+05	5.715E+04	5.974E+04	2.905E+04	3.037E+04	1.331E+04	1.391E+04
8	8.570E+04	9.102E+04	5.104E+04	5.424E+04	3.391E+04	3.604E+04	1.811E+04	1.925E+04	9.205E+03	9.789E+03	4.216E+03	4.484E+03
10	3.517E+04	3.803E+04	2.095E+04	2.266E+04	1.391E+04	1.506E+04	7.431E+03	8.046E+03	3.777E+03	4.090E+03	1.730E+03	1.874E+03
15	6.991E+03	7.942E+03	4.164E+03	4.734E+03	2.766E+03	3.147E+03	1.477E+03	1.681E+03	7.509E+02	8.549E+02	3.439E+02	3.916E+02
20	2.232E+03	2.673E+03	1.329E+03	1.594E+03	8.830E+02	1.060E+03	4.716E+02	5.663E+02	2.397E+02	2.879E+02	1.098E+02	1.319E+02
30	4.522E+02	6.018E+02	2.593E+02	3.590E+02	1.789E+02	2.386E+02	9.555E+01	1.275E+02	4.857E+01	6.485E+01	2.225E+01	2.971E+01
45	9.462E+01	1.429E+02	5.635E+01	8.521E+01	3.744E+01	5.665E+01	1.999E+01	3.027E+01	1.016E+01	1.539E+01	4.655E+00	7.052E+00
60	3.247E+01	5.230E+01	1.934E+01	3.118E+01	1.285E+01	2.072E+01	6.860E+00	1.107E+01	3.487E+00	5.630E+00	1.597E+00	2.579E+00
75	1.478E+01	2.360E+01	8.800E+00	1.406E+01	5.846E+00	9.339E+00	3.122E+00	4.988E+00	1.587E+00	2.536E+00	7.269E+01	1.161E+00
90	8.117E+00	1.185E+01	4.834E+00	7.050E+00	3.211E+00	4.680E+00	1.715E+00	2.498E+00	8.718E+01	1.269E+00	3.993E+01	5.812E+01
120	3.608E+00	3.276E+00	2.149E+00	1.934E+00	1.427E+00	1.273E+00	7.623E+01	6.799E+01	3.875E+01	3.447E+01	1.775E+01	1.577E+01
150	2.331E+00	7.004E-01	1.388E+00	3.996E-01	9.223E-01	2.588E-01	4.926E+01	1.349E+01	2.504E+01	6.762E-02	1.147E+01	3.072E+02
179	2.030E+00	8.634E-02	1.209E+00	3.129E-02	8.030E-01	1.401E-02	4.288E+01	4.088E-03	2.180E+01	1.095E-03	9.984E-02	2.471E-04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	9.835E+06	9.911E+06	4.442E+06	4.476E+06	2.519E+06	2.538E+06	1.620E+06	1.633E+06	8.313E+05	8.377E+05	4.091E+05	4.122E+05
2	6.148E+05	6.237E+05	2.777E+05	2.817E+05	1.575E+05	1.597E+05	1.013E+05	1.027E+05	5.196E+04	5.272E+04	2.557E+04	2.594E+04
3	1.219E+05	1.241E+05	5.486E+04	5.606E+04	3.111E+04	3.179E+04	2.001E+04	2.045E+04	1.027E+04	1.049E+04	5.053E+03	5.163E+03
4	3.845E+04	3.958E+04	1.736E+04	1.787E+04	9.847E+03	1.014E+04	6.333E+03	6.520E+03	3.250E+03	3.345E+03	1.599E+03	1.646E+03
6	7.603E+03	7.948E+03	3.433E+03	3.590E+03	1.947E+03	2.036E+03	1.252E+03	1.309E+03	6.426E+02	6.719E+02	3.162E+02	3.306E+02
8	2.409E+03	2.562E+03	1.088E+03	1.157E+03	6.169E+02	6.561E+02	3.968E+02	4.220E+02	2.036E+02	2.165E+02	1.002E+02	1.066E+02
10	9.895E+02	1.071E+03	4.464E+02	4.835E+02	2.532E+02	2.742E+02	1.628E+02	1.764E+02	8.355E+01	9.049E+01	4.112E+01	4.453E+01
15	1.965E+02	2.238E+02	8.874E+01	1.011E+02	5.033E+01	5.731E+01	3.237E+01	3.686E+01	1.661E+01	1.891E+01	8.173E+00	9.308E+00
20	6.273E+01	7.537E+01	2.833E+01	3.404E+01	1.607E+01	1.930E+01	1.033E+01	1.242E+01	5.302E+00	6.371E+00	2.609E+00	3.135E+00
30	1.271E+01	1.698E+01	5.740E+00	7.667E+00	3.255E+00	4.348E+00	2.094E+00	2.797E+00	1.074E+00	1.435E+00	5.287E-01	7.062E-01
45	2.660E+00	4.030E+00	1.201E+00	1.820E+00	6.811E-01	1.032E+00	4.381E-01	6.638E-01	2.248E-01	3.406E-01	1.106E-01	1.676E-01
60	9.126E-01	1.474E+00	4.121E-01	6.656E-01	2.337E-01	3.774E-01	1.503E-01	2.428E-01	7.713E-02	1.246E-01	3.796E-02	6.130E-02
75	4.153E-01	6.636E-01	1.876E-01	2.997E-01	1.064E-01	1.669E-01	6.841E-02	1.093E-01	3.510E-02	5.608E-02	1.727E-02	2.760E-02
90	2.282E-01	3.320E-01	1.030E-01	1.499E-01	5.843E-02	8.503E-02	3.758E-02	5.469E-02	1.928E-02	2.806E-02	9.490E-03	1.381E-02
120	1.014E-01	9.004E-02	4.579E-02	4.665E-02	2.597E-02	2.305E-02	1.670E-02	1.482E-02	8.570E-03	7.605E-03	4.218E-03	3.743E-03
150	6.552E-02	1.750E-02	2.959E-02	7.887E-03	1.678E-02	4.469E-03	1.079E-02	2.873E-03	5.538E-03	1.474E-03	2.725E-03	7.252E-04
179	5.705E-02	8.841E-05	2.576E-02	2.247E-05	1.461E-02	9.212E-06	9.397E-03	4.863E-06	4.822E-03	2.017E-06	2.373E-03	8.664E-07

TM (69)

(BARNS/STEPADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.066E+15	1.066E+15	4.742E+14	4.745E+14	2.670E+14	2.671E+14	1.189E+14	1.190E+14	6.701E+13	6.705F+13	4.297F+13	4.300E+13
2	6.663E+13	6.667E+13	2.964E+13	2.966E+13	1.669E+13	1.670E+13	7.432E+12	7.437E+12	4.188E+12	4.192F+12	2.686F+12	2.688E+12
3	1.316E+13	1.317E+13	5.856E+12	5.860E+12	3.297E+12	3.300E+12	1.468E+12	1.470E+12	8.276E+11	8.282E+11	5.307E+11	5.312E+11
4	4.167E+12	4.169E+12	1.854E+12	1.855E+12	1.044E+12	1.045E+12	4.648E+11	4.652E+11	2.619E+11	2.622F+11	1.680F+11	1.681E+11
6	8.239E+11	8.244E+11	3.665E+11	3.668E+11	2.064E+11	2.066E+11	9.190E+10	9.199E+10	5.179E+10	5.185E+10	3.321E+10	3.326E+10
8	2.611E+11	2.612E+11	1.161E+11	1.162E+11	6.539E+10	6.545E+10	2.912E+10	2.916E+10	1.641E+10	1.643F+10	1.052E+10	1.054E+10
10	1.071E+11	1.072E+11	4.766E+10	4.771E+10	2.683E+10	2.686E+10	1.195E+10	1.196E+10	6.734E+09	6.748F+09	4.318F+09	4.325E+09
15	2.129E+10	2.132E+10	9.474E+09	9.486E+09	5.334E+09	5.339E+09	2.375E+09	2.381E+09	1.339E+09	1.340F+09	8.584E+08	8.608E+08
20	6.798E+09	6.803E+09	3.024E+09	3.026E+09	1.703E+09	1.707E+09	7.583E+08	7.589E+08	4.274E+08	4.290E+08	2.740F+08	2.753E+08
30	1.377E+09	1.378E+09	6.128E+08	6.139E+08	3.450E+08	3.452E+08	1.536E+08	1.545E+08	8.659E+07	8.668F+07	5.553F+07	5.552E+07
45	2.882E+08	2.877E+08	1.282E+08	1.291E+08	7.219E+07	7.228E+07	3.215E+07	3.209E+07	1.812E+07	1.829E+07	1.162E+07	1.181E+07
60	9.890E+07	9.941E+07	4.400E+07	4.359E+07	2.477E+07	2.481E+07	1.103E+07	1.126E+07	6.217E+06	6.330F+06	3.987F+06	4.013E+06
75	4.501E+07	4.463E+07	2.002E+07	2.051E+07	1.127E+07	1.140E+07	5.020E+06	5.027E+06	2.829E+06	2.759F+06	1.814E+06	1.743E+06
90	2.472E+07	2.572E+07	1.100E+07	1.106E+07	6.193E+06	5.999E+06	2.758E+06	2.570E+06	1.554E+06	1.442F+06	9.967F+05	9.346E+05
120	1.099E+07	9.677E+06	4.889E+06	4.501E+06	2.753E+06	2.181E+06	1.226E+06	1.281E+06	6.908E+05	7.654E+05	4.430E+05	5.133E+05
150	7.100E+06	9.304E+06	3.159E+06	4.372E+06	1.779E+06	2.554E+06	7.920E+05	1.194E+06	4.464E+05	6.945E+05	2.862E+05	4.556E+05
179	6.182E+06	9.944E+06	2.750E+06	4.560E+06	1.549E+06	2.623E+06	6.896E+05	1.202E+06	3.886E+05	6.901E+05	2.492E+05	4.485E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.204E+13	2.202E+13	1.084E+13	1.085E+13	4.866E+12	4.870E+12	2.762E+12	2.765E+12	1.250E+12	1.252F+12	7.159E+11	7.170E+11
2	1.376E+12	1.377E+12	6.779E+11	6.786E+11	3.041E+11	3.045E+11	1.727E+11	1.730E+11	7.816E+10	7.832E+10	4.475F+10	4.486E+10
3	2.718E+11	2.721E+11	1.339E+11	1.341E+11	6.009E+10	6.019E+10	3.412E+10	3.420E+10	1.544E+10	1.549E+10	8.842F+09	8.871E+09
4	8.603E+10	8.614E+10	4.240E+10	4.246E+10	1.902E+10	1.906E+10	1.080E+10	1.083E+10	4.888E+09	4.903E+09	2.799E+09	2.811E+09
6	1.701E+10	1.704E+10	8.383E+09	8.400E+09	3.761E+09	3.773E+09	2.135E+09	2.142E+09	9.665E+08	9.713F+08	5.534E+08	5.574E+08
8	5.390E+09	5.398E+09	2.556E+09	2.665E+09	1.192E+09	1.195E+09	6.766E+08	6.791E+08	3.062E+08	3.086F+08	1.753F+08	1.771E+08
10	2.212E+09	2.217E+09	1.090E+09	1.094E+09	4.890E+08	4.905E+08	2.776E+08	2.791E+08	1.257E+08	1.270F+08	7.195F+07	7.284E+07
15	4.397E+08	4.415E+08	2.167E+08	2.172E+08	9.721E+07	9.788E+07	5.519E+07	5.586E+07	2.498E+07	2.533F+07	1.430F+07	1.448E+07
20	1.404E+08	1.406E+08	6.917E+07	6.949E+07	3.103E+07	3.145E+07	1.762E+07	1.789E+07	7.975E+06	8.064F+06	4.566F+06	4.606E+06
30	2.844E+07	2.866E+07	1.402E+07	1.425E+07	6.288E+06	6.368E+06	3.570E+06	3.588E+06	1.616E+06	1.617F+06	9.252F+05	9.325E+05
45	5.950E+06	6.045E+06	2.932E+06	2.937E+06	1.319E+06	1.300E+06	7.470E+05	7.404E+05	3.381E+05	3.442F+05	1.936F+05	2.036E+05
60	2.042E+06	2.012E+06	1.006E+06	9.807E+05	4.515E+05	4.468E+05	2.563E+05	2.612E+05	1.160E+05	1.255E+05	6.642F+04	7.588E+04
75	9.292E+05	8.884E+05	4.579E+05	4.478E+05	2.055E+05	2.120E+05	1.166E+05	1.266E+05	5.280E+04	6.186F+04	3.023F+04	3.740E+04
90	5.105E+05	4.968E+05	2.516E+05	2.596E+05	1.129E+05	1.259E+05	6.408E+04	7.568F+04	2.900E+04	3.696F+04	1.661E+04	2.221E+04
120	2.269E+05	2.804E+05	1.118E+05	1.471E+05	5.016E+04	7.019E+04	2.848E+04	4.132E+04	1.289E+04	1.945F+04	7.381F+03	1.133E+04
150	1.466E+05	2.407E+05	7.225E+04	1.219E+05	3.241E+04	5.587E+04	1.840E+04	3.197E+04	8.330E+03	1.443F+04	4.769E+03	8.146E+03
179	1.276E+05	2.337E+05	6.290E+04	1.167E+05	2.822E+04	5.272E+04	1.602E+04	2.985E+04	7.252E+03	1.326E+04	4.152E+03	7.393E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	4.661E+11	4.670E+11	2.458E+11	2.463E+11	1.262E+11	1.245E+11	6.016E+10	6.037E+10	3.601E+10	3.616F+10	1.779F+10	1.788E+10
2	2.914E+10	2.922E+10	1.537E+10	1.542E+10	7.898E+09	7.928E+09	3.760E+09	3.785E+09	2.251E+09	2.268F+09	1.112E+09	1.122E+09
3	5.757E+09	5.781E+09	3.036E+09	3.054E+09	1.558E+09	1.570E+09	7.430E+08	7.498E+08	4.448E+08	4.495F+08	2.188F+08	2.226E+08
4	1.822E+09	1.833E+09	9.610E+08	9.683E+08	4.933E+08	4.979E+08	2.352E+08	2.379E+08	1.408E+08	1.427F+08	6.956E+07	7.073E+07
6	3.603E+08	3.635E+08	1.900E+08	1.920E+08	9.754E+07	9.875E+07	4.650E+07	4.723E+07	2.744E+07	2.837F+07	1.375E+07	1.410E+07
8	1.142E+08	1.155E+08	6.021E+07	6.096E+07	3.091E+07	3.136F+07	1.473E+07	1.502E+07	8.820E+06	9.041F+06	4.358F+06	4.505E+06
10	4.685E+07	4.744E+07	2.471E+07	2.504E+07	1.268E+07	1.289E+07	6.046E+06	6.193E+06	3.619E+06	3.735F+06	1.788F+06	1.867E+06
15	9.913E+06	9.424E+06	4.911E+06	4.983E+06	2.521E+06	2.580E+06	1.202E+06	1.251E+06	7.195F+05	7.594E+05	3.555F+05	3.828E+05
20	2.737E+06	3.033E+06	1.568E+06	1.597E+06	8.048E+05	8.348E+05	3.837E+05	4.089F+05	2.297E+05	2.499F+05	1.135F+05	1.276E+05
30	6.024E+05	6.146E+05	3.177E+05	3.333E+05	1.631E+05	1.776E+05	7.774E+04	8.862E+04	4.654E+04	5.477F+04	2.299F+04	2.812E+04
45	1.260E+05	1.368E+05	6.647E+04	7.593E+04	3.412E+04	4.122E+04	1.627E+04	2.085E+04	9.738F+03	1.295F+04	4.811F+03	6.687E+03
60	4.325E+04	5.124E+04	2.281E+04	2.669E+04	1.171E+04	1.562E+04	5.582E+03	7.888E+03	3.341E+03	4.887F+03	1.651F+03	2.509E+03
75	1.968E+04	2.536E+04	1.038E+04	1.414E+04	5.328E+03	7.637E+03	2.540E+03	3.811E+03	1.521E+03	2.338E+03	7.513F+02	1.184E+03
90	1.081E+04	1.496E+04	5.702E+03	8.372E+03	2.927E+03	4.372F+03	1.395E+03	2.136E+03	8.354E+02	1.290F+03	4.127F+02	6.387E+02
120	4.806E+03	7.433E+03	2.534E+03	3.916E+03	1.301E+03	1.979E+03	6.202E+02	9.020E+02	3.713E+02	5.170F+02	1.834F+02	2.368E+02
150	3.105E+03	5.202E+03	1.638E+03	2.621E+03	8.406E+02	1.249E+03	4.007E+02	5.275E+02	2.399F+02	2.822F+02	1.185F+02	1.147E+02
179	2.704E+03	4.672E+03	1.426E+03	2.310E+03	7.319E+02	1.075E+03	3.489E+02	5.270E+02	2.089E+02	2.754F+02	1.032E+02	8.515E+01

TM (69)

(BARNS/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.092E+10	1.698E+10	7.510E+09	7.554E+09	4.295E+09	4.392E+09	2.376E+09	2.392E+09	1.202E+09	1.211E+09	7.344E+08	7.398E+08
2	6.823E+08	6.893E+08	4.645E+08	4.747E+08	2.685E+08	2.717E+08	1.485E+08	1.505E+08	7.516E+07	7.619E+07	4.591E+07	4.655E+07
3	1.48E+08	1.368E+08	9.276E+07	9.425E+07	5.304E+07	5.399E+07	2.935E+07	2.991E+07	1.485E+07	1.515E+07	9.071E+06	9.261E+06
4	4.267E+07	4.350E+07	2.936E+07	2.998E+07	1.679E+07	1.719E+07	9.289E+06	9.528E+06	4.701E+06	4.829E+06	2.871E+06	2.951E+06
6	8.437E+06	8.683E+06	5.805E+06	5.992E+06	3.320E+06	3.440E+06	1.837E+06	1.909E+06	9.295E+05	9.685E+05	5.677E+05	5.922E+05
8	2.673E+06	2.781E+06	1.839E+06	1.921E+06	1.052E+06	1.105E+06	5.820E+05	6.140E+05	2.945E+05	3.117E+05	1.749E+05	1.907E+05
10	1.097E+06	1.155E+06	7.548E+05	7.990E+05	4.316E+05	4.602E+05	2.388E+05	2.561E+05	1.209E+05	1.301E+05	7.381E+04	7.964E+04
15	2.181E+05	2.379E+05	1.500E+05	1.652E+05	8.581E+04	9.549E+04	4.747E+04	5.328E+04	2.402E+04	2.714E+04	1.467E+04	1.662E+04
20	6.962E+04	7.926E+04	4.790E+04	5.517E+04	2.739E+04	3.200E+04	1.516E+04	1.789E+04	7.669E+03	9.128E+03	4.684E+03	5.596E+03
30	1.411E+04	1.765E+04	9.706E+03	1.233E+04	5.550E+03	7.176E+03	3.071E+03	4.024E+03	1.554E+03	2.057E+03	9.492E+02	1.262E+03
45	2.951E+03	4.205E+03	2.031E+03	2.939E+03	1.161E+03	1.712E+03	6.425E+02	9.603E+02	3.251E+02	4.907E+02	1.986E+02	3.011E+02
60	1.013E+03	1.571E+03	6.968E+02	1.095E+03	3.985E+02	6.352E+02	2.205E+02	3.551E+02	1.116E+02	1.810E+02	6.815E+01	1.109E+02
75	4.609E+02	7.347E+02	3.171E+02	5.087E+02	1.814E+02	2.927E+02	1.003E+02	1.625E+02	5.077E+01	8.241E+01	3.101E+01	5.032E+01
90	2.532E+02	3.904E+02	1.742E+02	2.675E+02	9.962E+01	1.518E+02	5.512E+01	8.332E+01	2.789E+01	4.188E+01	1.704E+01	2.549E+01
120	1.125E+02	1.368E+02	7.743E+01	8.984E+01	4.28E+01	4.810E+01	2.450E+01	2.510E+01	1.240E+01	1.209E+01	7.572E+00	7.214E+00
150	7.271E+01	5.984E+01	5.003E+01	3.599E+01	2.861E+01	1.671E+01	1.583E+01	7.485E+00	8.010E+00	3.094E+00	4.893E+00	1.693E+00
179	6.331E+01	4.124E+01	4.356E+01	2.297E+01	2.491E+01	9.176E+00	1.378E+01	3.235E+00	6.974E+00	4.231E+00	4.268E+00	3.617E+00
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	3.603E+08	3.630E+08	2.146E+08	2.162E+08	1.425E+08	1.446E+08	7.613E+07	7.671E+07	3.870E+07	3.899E+07	1.772E+07	1.786E+07
2	2.252E+07	2.284E+07	1.341E+07	1.361E+07	8.910E+06	9.039E+06	4.759E+06	4.827E+06	2.419E+06	2.454E+06	1.108E+06	1.124E+06
3	4.450E+06	4.545E+06	2.650E+06	2.707E+06	1.761E+06	1.799E+06	9.402E+05	9.607E+05	4.779E+05	4.883E+05	2.189E+05	2.237E+05
4	1.408E+06	1.449E+06	8.388E+05	8.631E+05	5.572E+05	5.744E+05	2.976E+05	3.063E+05	1.513E+05	1.557E+05	6.926E+04	7.132E+04
6	2.785E+05	2.908E+05	1.659E+05	1.733E+05	1.102E+05	1.161E+05	5.885E+04	6.150E+04	2.991E+04	3.126E+04	1.370E+04	1.432E+04
8	8.824E+04	9.369E+04	5.255E+04	5.583E+04	3.491E+04	3.710E+04	1.865E+04	1.982E+04	9.478E+03	1.007E+04	4.341E+03	4.615E+03
10	3.621E+04	3.913E+04	2.157E+04	2.332E+04	1.433E+04	1.580E+04	7.651E+03	8.280E+03	3.889E+03	4.210E+03	1.781E+03	1.928E+03
15	7.198E+03	8.174E+03	4.287E+03	4.873E+03	2.848E+03	3.249E+03	1.521E+03	1.731E+03	7.731E+02	8.800E+02	3.541E+02	4.031E+02
20	2.298E+03	2.753E+03	1.369E+03	1.642E+03	9.092E+02	1.091E+03	4.855E+02	5.833E+02	2.468E+02	2.966E+02	1.130E+02	1.359E+02
30	4.656E+02	6.213E+02	2.773E+02	3.706E+02	1.842E+02	2.464E+02	9.838E+01	1.317E+02	5.001E+01	6.696E+01	2.291E+01	3.068E+01
45	9.742E+01	1.482E+02	5.802E+01	8.842E+01	3.854E+01	5.898E+01	2.059E+01	3.141E+01	1.044E+01	1.597E+01	4.793E+00	7.319E+00
60	3.343E+01	5.455E+01	1.991E+01	3.252E+01	1.323E+01	2.142E+01	7.064E+00	1.155E+01	3.591E+00	5.873E+00	1.645E+00	2.690E+00
75	1.521E+01	2.473E+01	9.061E+00	1.473E+01	6.019E+00	9.786E+00	3.215E+00	5.227E+00	1.634E+00	2.657E+00	7.484E+00	1.217E+00
90	8.357E+00	1.247E+01	4.977E+00	7.415E+00	3.307E+00	4.922E+00	1.766E+00	2.627E+00	8.976E+00	1.335E+00	4.111E+00	6.113E+00
120	3.714E+00	3.465E+00	2.212E+00	2.045E+00	1.470E+00	1.352E+00	7.849E+00	7.191E+00	3.990E+00	3.647E+00	1.827E+00	1.668E+00
150	2.400E+00	7.463E+00	1.429E+00	4.238E+00	9.496E+00	2.745E+00	5.072E+00	1.431E+00	2.578E+00	7.174E+00	1.181E+00	3.260E+00
179	2.990E+00	9.102E+00	1.245E+00	3.298E+00	8.268E+00	1.477E+00	4.415E+00	1.431E+00	2.244E+00	1.154E+00	1.028E+00	2.608E+00
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.0138E+07	1.020E+07	4.573E+06	4.609E+06	2.594E+06	2.614E+06	1.668E+06	1.681E+06	8.559E+05	8.625E+05	4.212E+05	4.245E+05
2	6.330E+05	6.422E+05	2.859E+05	2.900E+05	1.621E+05	1.645E+05	1.043E+05	1.058E+05	5.350E+04	5.428E+04	2.633E+04	2.671E+04
3	1.251E+05	1.278E+05	5.648E+04	5.772E+04	3.203E+04	3.273E+04	2.006E+04	2.105E+04	1.057E+04	1.080E+04	5.202E+03	5.316E+03
4	3.959E+04	4.075E+04	1.788E+04	1.840E+04	1.014E+04	1.044E+04	6.521E+03	6.712E+03	3.346E+03	3.444E+03	1.647E+03	1.695E+03
6	7.828E+03	8.182E+03	3.535E+03	3.695E+03	2.005E+03	2.096E+03	1.289E+03	1.348E+03	6.616E+02	6.916E+02	3.256E+02	3.403E+02
8	2.480E+03	2.637E+03	1.120E+03	1.191E+03	6.352E+02	6.753E+02	4.086E+02	4.344E+02	2.096E+02	2.222E+02	1.032E+02	1.097E+02
10	1.018E+03	1.102E+03	4.596E+02	4.976E+02	2.607E+02	2.852E+02	1.677E+02	1.815E+02	8.602E+01	9.313E+01	4.233E+01	4.583E+01
15	2.023E+02	2.303E+02	9.137E+01	1.040E+02	5.182E+01	5.899E+01	3.333E+01	3.794E+01	1.710E+01	1.947E+01	8.415E+00	9.581E+00
20	6.459E+01	7.763E+01	2.917E+01	3.506E+01	1.654E+01	1.988E+01	1.064E+01	1.279E+01	5.459E+00	6.562E+00	2.687E+00	3.229E+00
30	1.309E+01	1.753E+01	5.910E+00	7.917E+00	3.362E+00	4.490E+00	2.156E+00	2.888E+00	1.106E+00	1.482E+00	5.444E+00	7.292E+00
45	2.738E+00	4.182E+00	1.237E+00	1.889E+00	7.013E+00	1.071E+00	4.511E+00	6.889E+00	2.314E+00	3.535E+00	1.139E+00	1.740E+00
60	9.396E+01	1.537E+00	4.244E+00	6.942E+00	2.407E+00	3.947E+00	1.548E+00	2.532E+00	7.942E+00	1.299E+00	3.908E+00	6.394E+00
75	4.276E+01	6.953E+01	1.931E+01	3.140E+01	1.095E+01	1.741E+01	7.044E+00	1.145E+01	3.614E+00	5.847E+00	1.779E+00	2.892E+00
90	2.349E+01	3.493E+01	1.061E+01	1.577E+01	6.016E+00	8.944E+00	3.869E+00	5.753E+00	1.985E+00	2.962E+00	9.771E+00	1.453E+00
120	1.044E+01	9.525E+00	4.715E+00	4.300E+00	2.674E+00	2.448E+00	1.720E+00	1.568E+00	8.824E+00	8.045E+00	4.343E+00	3.959E+00
150	6.746E+00	1.857E+00	3.047E+00	8.369E+00	1.728E+00	4.743E+00	1.111E+00	3.049E+00	5.702E+00	1.544E+00	2.806E+00	7.694E+00
179	5.874E+00	9.334E+00	2.653E+00	2.375E+00	1.504E+00	9.748E+00	9.675E+00	5.150E+00	4.964E+00	2.138E+00	2.443E+00	9.193E+00

YR (70)

(BARN/STFRAGIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.097E+15	1.098E+15	4.880E+14	4.883E+14	2.748E+14	2.749E+14	1.224E+14	1.224E+14	6.896E+13	6.901E+13	4.422E+13	4.425E+13
2	6.857E+13	6.861E+13	3.051E+13	3.052E+13	1.718E+13	1.719E+13	7.649E+12	7.654E+12	4.311E+12	4.314E+12	2.764E+12	2.766E+12
3	1.355E+13	1.356E+13	6.027E+12	6.031E+12	3.394E+12	3.399E+12	1.511E+12	1.512E+12	8.517E+11	8.524E+11	5.462E+11	5.467E+11
4	4.288E+12	4.291E+12	1.908E+12	1.909E+12	1.074E+12	1.075E+12	4.783E+11	4.788E+11	2.696E+11	2.696E+11	1.729E+11	1.731E+11
6	8.479E+11	8.485E+11	3.772E+11	3.775E+11	2.124E+11	2.126E+11	9.458E+10	9.467E+10	5.331E+10	5.337E+10	3.418E+10	3.422E+10
8	2.687E+11	2.689E+11	1.195E+11	1.196E+11	6.730E+10	6.737E+10	2.997E+10	3.001E+10	1.689E+10	1.691E+10	1.083E+10	1.085E+10
10	1.102E+11	1.103E+11	4.905E+10	4.910E+10	2.762E+10	2.764E+10	1.230E+10	1.231E+10	6.931E+09	6.945E+09	4.444E+09	4.452E+09
15	2.192E+10	2.194E+10	9.750E+09	9.762E+09	5.490E+09	5.495E+09	2.445E+09	2.451E+09	1.378E+09	1.379E+09	8.835E+08	8.857E+08
20	6.996E+09	7.001E+09	3.113E+09	3.115E+09	1.753E+09	1.756E+09	7.804E+08	7.811E+08	4.398E+08	4.414E+08	2.820E+08	2.834E+08
30	1.418E+09	1.413E+09	6.307E+08	6.321E+08	3.551E+08	3.552E+08	1.581E+08	1.590E+08	8.912E+07	8.926E+07	5.715E+07	5.713E+07
45	2.966E+08	2.960E+08	1.320E+08	1.328E+08	7.430E+07	7.447E+07	3.309E+07	3.300E+07	1.865E+07	1.880E+07	1.196E+07	1.216E+07
60	1.018E+08	1.025E+08	4.528E+07	4.485E+07	2.550E+07	2.548E+07	1.135E+07	1.159E+07	6.399E+06	6.527E+06	4.103E+06	4.140E+06
75	4.632E+07	4.581E+07	2.061E+07	2.109E+07	1.160E+07	1.196E+07	5.167E+06	5.192E+06	2.912E+06	2.847E+06	1.867E+06	1.795E+06
90	2.545E+07	2.653E+07	1.132E+07	1.144E+07	6.374E+06	6.198E+06	2.838E+06	2.645E+06	1.600E+06	1.479E+06	1.026E+06	9.572E+05
120	1.131E+07	9.822E+06	5.031E+06	4.592E+06	2.833E+06	2.713E+06	1.261E+06	1.309E+06	7.110E+05	7.838E+05	4.559E+05	5.264E+05
150	7.308E+06	9.598E+06	3.251E+06	4.518E+06	1.831E+06	2.643E+06	8.151E+05	1.237E+06	4.594E+05	7.207E+05	2.946E+05	4.733E+05
179	6.362E+06	1.034E+07	2.831E+06	4.746E+06	1.594E+06	2.741E+06	7.097E+05	1.253E+06	4.000E+05	7.198E+05	2.565E+05	4.681E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.265E+13	2.267E+13	1.116E+13	1.117E+13	5.008E+12	5.012E+12	2.843E+12	2.846E+12	1.287E+12	1.288E+12	7.368E+11	7.379E+11
2	1.416E+12	1.417E+12	6.977E+11	6.985E+11	3.130E+11	3.134E+11	1.777E+11	1.780E+11	8.044E+10	8.061E+10	4.606E+10	4.617E+10
3	2.797E+11	2.800E+11	1.379E+11	1.380E+11	6.185E+10	6.195E+10	3.511E+10	3.519E+10	1.589E+10	1.594E+10	9.100E+09	9.129E+09
4	8.854E+10	8.866E+10	4.363E+10	4.370E+10	1.958E+10	1.962E+10	1.111E+10	1.115E+10	5.031E+09	5.047E+09	2.880E+09	2.893E+09
6	1.751E+10	1.754E+10	8.628E+09	8.645E+09	3.871E+09	3.883E+09	2.198E+09	2.205E+09	9.747E+08	9.995E+08	5.695E+08	5.737E+08
8	5.547E+09	5.556E+09	2.734E+09	2.742E+09	1.226E+09	1.230E+09	6.964E+08	6.989E+08	3.152E+08	3.175E+08	1.805E+08	1.823E+08
10	2.276E+09	2.281E+09	1.122E+09	1.126E+09	5.033E+08	5.048E+08	2.857E+08	2.872E+08	1.293E+08	1.307E+08	7.405E+07	7.498E+07
15	4.525E+08	4.545E+08	2.230E+08	2.235E+08	1.000E+08	1.007E+08	5.680E+07	5.748E+07	2.571E+07	2.609E+07	1.472E+07	1.492E+07
20	1.445E+08	1.447E+08	7.119E+07	7.148E+07	3.194E+07	3.237E+07	1.813E+07	1.842E+07	8.208E+06	8.307E+06	4.699E+06	4.743E+06
30	2.927E+07	2.947E+07	1.442E+07	1.467E+07	6.472E+06	6.563E+06	3.674E+06	3.697E+06	1.663E+06	1.664E+06	9.522E+05	9.583E+05
45	6.124E+06	6.230E+06	3.018E+06	3.028E+06	1.354E+06	1.337E+06	7.688E+05	7.609E+05	3.480E+05	3.530E+05	1.992E+05	2.088E+05
60	2.101E+06	2.074E+06	1.036E+06	1.009E+06	4.646E+05	4.583E+05	2.638E+05	2.677E+05	1.194E+05	1.287E+05	6.836E+04	7.753E+04
75	9.564E+05	9.124E+05	4.713E+05	4.588E+05	2.115E+05	2.171E+05	1.201E+05	1.297E+05	5.434E+04	6.351E+04	3.111E+04	3.847E+04
90	5.254E+05	5.081E+05	2.589E+05	2.656E+05	1.162E+05	1.291E+05	6.595E+04	7.770E+04	2.985E+04	3.806E+04	1.709E+04	2.293E+04
120	2.335E+05	2.883E+05	1.151E+05	1.516E+05	5.163E+04	7.256E+04	2.931E+04	4.281E+04	1.327E+04	2.020E+04	7.596E+03	1.179E+04
150	1.509E+05	2.503E+05	7.436E+04	1.269E+05	3.336E+04	5.899E+04	1.894E+04	3.339E+04	8.573E+03	1.509E+04	4.908E+03	8.530E+03
179	1.314E+05	2.441E+05	6.474E+04	1.221E+05	2.904E+04	5.519E+04	1.649E+04	3.127E+04	7.464E+03	1.391E+04	4.273E+03	7.761E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	4.797E+11	4.805E+11	2.530E+11	2.535E+11	1.299E+11	1.302E+11	6.191E+10	6.213E+10	3.706E+10	3.722E+10	1.831E+10	1.840E+10
2	2.999E+10	3.007E+10	1.581E+10	1.588E+10	8.118E+09	8.159E+09	3.870E+09	3.895E+09	2.317E+09	2.334E+09	1.145E+09	1.155E+09
3	5.925E+09	5.950E+09	3.125E+09	3.143E+09	1.604E+09	1.616E+09	7.647E+08	7.718E+08	4.578E+08	4.627E+08	2.262E+08	2.291E+08
4	1.875E+09	1.886E+09	9.890E+08	9.966E+08	5.077E+08	5.125E+08	2.420E+08	2.448E+08	1.449E+08	1.469E+08	7.159E+07	7.280E+07
6	3.708E+08	3.742E+08	1.956E+08	1.977E+08	1.004E+08	1.016E+08	4.786E+07	4.861E+07	2.865E+07	2.919E+07	1.416E+07	1.450E+07
8	1.175E+08	1.189E+08	5.197E+07	6.276E+07	3.181E+07	3.228E+07	1.516E+07	1.546E+07	9.078E+06	9.302E+06	4.485E+06	4.635E+06
10	4.822E+07	4.885E+07	2.543E+07	2.578E+07	1.305E+07	1.327E+07	6.222E+06	6.371E+06	3.725E+06	3.842E+06	1.840E+06	1.920E+06
15	9.585E+06	9.704E+06	5.055E+06	5.127E+06	2.595E+06	2.654E+06	1.237E+06	1.286E+06	7.405E+05	7.805E+05	3.659E+05	3.935E+05
20	3.606E+06	3.690E+06	1.614E+06	1.642E+06	8.283E+05	8.576E+05	3.949E+05	4.200E+05	2.364E+05	2.568E+05	1.168E+05	1.305E+05
30	6.200E+05	6.312E+05	3.270E+05	3.420E+05	1.678E+05	1.822E+05	8.001E+04	9.101E+04	4.790E+04	5.625E+04	2.367E+04	2.893E+04
45	1.297E+05	1.402E+05	6.841E+04	7.792E+04	3.512E+04	4.236E+04	1.674E+04	2.147E+04	1.002E+04	1.336E+04	4.952E+03	6.907E+03
60	4.451E+04	5.262E+04	2.348E+04	2.952E+04	1.205E+04	1.611E+04	5.745E+03	8.156E+03	3.439E+03	5.061E+03	1.699E+03	2.603E+03
75	2.026E+04	2.612E+04	1.068E+04	1.460E+04	5.484E+03	7.907E+03	2.614E+03	3.956E+03	1.565E+03	2.432E+03	7.733E+02	1.234E+03
90	1.113E+04	1.546E+04	5.869E+03	8.533E+03	3.013E+03	4.544E+03	1.436E+03	2.226E+03	8.598E+02	1.346E+03	4.248E+02	6.680E+02
120	4.946E+03	7.743E+03	2.608E+03	4.087E+03	1.339E+03	2.064E+03	6.383E+02	9.450E+02	3.821E+02	5.424E+02	1.888E+02	2.488E+02
150	3.196E+03	5.452E+03	1.685E+03	2.749E+03	8.652E+02	1.312E+03	4.124E+02	5.546E+02	2.469E+02	2.969E+02	1.220E+02	1.208E+02
179	2.783E+03	4.907E+03	1.467E+03	2.429E+03	7.532E+02	1.131E+03	3.591E+02	4.601E+02	2.156E+02	2.374E+02	1.062E+02	8.972E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.123E+10	1.130E+10	7.729E+09	7.778E+09	4.420E+09	4.449E+09	2.446E+09	2.462E+09	1.238E+09	1.246E+09	7.559E+08	7.614E+08
2	7.022E+08	7.094E+08	4.832E+08	4.885E+08	2.763E+08	2.797E+08	1.529E+08	1.549E+08	7.736E+07	7.842E+07	4.725E+07	4.791E+07
3	1.387E+08	1.408E+08	9.546E+07	9.700E+07	5.459E+07	5.556E+07	3.020E+07	3.078E+07	1.528E+07	1.560E+07	9.336E+06	9.530E+06
4	4.392E+07	4.477E+07	3.022E+07	3.085E+07	1.728E+07	1.749E+07	9.560E+06	9.805E+06	4.838E+06	4.969E+06	2.955E+06	3.037E+06
6	8.684E+06	8.934E+06	5.975E+06	6.165E+06	3.417E+06	3.539E+06	1.890E+06	1.964E+06	9.566E+05	9.965E+05	5.843E+05	6.094E+05
8	2.751E+06	2.860E+06	1.893E+06	1.976E+06	1.083E+06	1.136E+06	5.990E+05	6.316E+05	3.031E+05	3.207E+05	1.851E+05	1.962E+05
10	1.129E+06	1.188E+06	7.768E+05	8.217E+05	4.442E+05	4.713E+05	2.458E+05	2.634E+05	1.244E+05	1.339E+05	7.597E+04	8.192E+04
15	2.244E+05	2.446E+05	1.544E+05	1.698E+05	8.831E+04	9.819E+04	4.886E+04	5.480E+04	2.473E+04	2.791E+04	1.510E+04	1.710E+04
20	7.165E+04	8.148E+04	4.930E+04	5.673E+04	2.819E+04	3.291E+04	1.560E+04	1.841E+04	7.893E+03	9.394E+03	4.821E+03	5.759E+03
30	1.452E+04	1.817E+04	9.989E+03	1.270E+04	5.712E+03	7.396E+03	3.161E+03	4.150E+03	1.599E+03	2.121E+03	9.769E+02	1.302E+03
45	3.038E+03	4.348E+03	2.090E+03	3.041E+03	1.195E+03	1.773E+03	6.613E+02	9.949E+02	3.346E+02	5.087E+02	2.044E+02	3.121E+02
60	1.042E+03	1.632E+03	7.172E+02	1.138E+03	4.101E+02	6.610E+02	2.269E+02	3.698E+02	1.146E+02	1.886E+02	7.014E+01	1.156E+02
75	4.744E+02	7.667E+02	3.264E+02	5.312E+02	1.866E+02	3.060E+02	1.033E+02	1.700E+02	5.226E+01	8.627E+01	1.753E+01	2.679E+01
90	2.606E+02	4.089E+02	1.793E+02	2.803E+02	1.025E+02	1.592E+02	5.673E+01	8.750E+01	2.871E+01	4.400E+01	1.276E+01	2.679E+01
120	1.158E+02	1.440E+02	7.969E+01	9.462E+01	4.557E+01	5.072E+01	2.521E+01	2.649E+01	1.276E+01	1.274E+01	7.793E+00	1.793E+00
150	7.484E+01	6.307E+01	5.149E+01	3.795E+01	2.945E+01	1.764E+01	1.629E+01	7.910E+00	8.244E+00	3.274E+00	5.036E+00	1.793E+00
179	6.516E+01	4.346E+01	4.483E+01	2.421E+01	2.564E+01	9.618E+00	1.418E+01	3.410E+00	7.178E+00	9.730E+01	4.384E+00	3.813E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	3.708E+08	3.736E+08	2.208E+08	2.225E+08	1.467E+08	1.478E+08	7.835E+07	7.894E+07	3.983E+07	4.013E+07	1.824E+07	1.838E+07
2	2.318E+07	2.351E+07	1.380E+07	1.400E+07	9.171E+06	9.302E+06	4.898E+06	4.968E+06	2.490E+06	2.526E+06	1.140E+06	1.157E+06
3	4.580E+06	4.677E+06	2.728E+06	2.786E+06	1.812E+06	1.841E+06	9.677E+05	9.886E+05	4.919E+05	5.026E+05	2.253E+05	2.302E+05
4	1.450E+06	1.491E+06	8.633E+05	8.882E+05	5.735E+05	5.901E+05	3.063E+05	3.152E+05	1.557E+05	1.602E+05	7.131E+04	7.339E+04
6	2.866E+05	2.992E+05	1.707E+05	1.783E+05	1.134E+05	1.185E+05	6.056E+04	6.327E+04	3.079E+04	3.217E+04	1.410E+04	1.473E+04
8	9.082E+04	9.637E+04	5.409E+04	5.743E+04	3.593E+04	3.816E+04	1.919E+04	2.039E+04	9.754E+03	1.036E+04	4.668E+03	4.748E+03
10	3.727E+04	4.025E+04	2.220E+04	2.399E+04	1.474E+04	1.594E+04	7.875E+03	8.518E+03	4.003E+03	4.330E+03	1.833E+03	1.984E+03
15	7.408E+03	8.409E+03	4.412E+03	5.014E+03	2.931E+03	3.322E+03	1.585E+03	1.780E+03	7.957E+02	9.053E+02	3.645E+02	4.147E+02
20	2.368E+03	2.834E+03	1.409E+03	1.690E+03	9.357E+02	1.124E+03	4.997E+02	6.004E+02	2.540E+02	3.053E+02	1.163E+02	1.399E+02
30	4.792E+02	6.410E+02	2.854E+02	3.824E+02	1.896E+02	2.542E+02	1.013E+02	1.359E+02	5.147E+01	6.910E+01	2.358E+01	3.166E+01
45	1.003E+02	1.537E+02	5.972E+01	9.169E+01	3.967E+01	6.096E+01	2.119E+01	3.258E+01	1.077E+01	1.657E+01	4.933E+00	7.590E+00
60	3.441E+01	5.686E+01	2.049E+01	3.390E+01	1.361E+01	2.254E+01	7.207E+00	1.204E+01	3.695E+00	6.123E+00	1.693E+00	2.805E+00
75	1.566E+01	2.589E+01	9.325E+00	1.543E+01	6.195E+00	1.025E+01	3.308E+00	5.475E+00	1.682E+00	2.783E+00	7.703E+00	1.275E+00
90	8.601E+00	1.311E+01	5.123E+00	7.797E+00	3.403E+00	5.176E+00	1.817E+00	2.763E+00	9.239E+01	1.404E+00	4.232E+01	6.429E+01
120	3.828E+00	3.663E+00	2.277E+00	2.162E+00	1.512E+00	1.439E+00	8.078E+01	7.605E+01	4.106E+01	3.857E+01	1.881E+01	1.764E+01
150	2.470E+00	7.909E+01	1.471E+00	4.493E+01	9.773E+01	2.911E+01	5.220E+01	1.518E+01	2.653E+01	7.611E+02	1.215E+01	3.459E+02
179	2.151E+00	9.595E+02	1.281E+00	3.477E+02	8.509E+01	1.557E+02	4.544E+01	4.545E+03	2.310E+01	1.217E+03	1.058E+01	2.752E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.042E+07	1.050E+07	4.707E+06	4.743E+06	2.669E+06	2.690E+06	1.717E+06	1.730E+06	8.809E+05	8.876E+05	4.335E+05	4.368E+05
2	6.515E+05	6.609E+05	2.942E+05	2.985E+05	1.669E+05	1.693E+05	1.073E+05	1.089E+05	5.507E+04	5.586E+04	2.710E+04	2.749E+04
3	1.287E+05	1.315E+05	5.813E+04	5.940E+04	3.297E+04	3.368E+04	2.120E+04	2.166E+04	1.088E+04	1.112E+04	5.354E+03	5.471E+03
4	4.074E+04	4.193E+04	1.840E+04	1.894E+04	1.043E+04	1.079E+04	6.711E+03	6.907E+03	3.444E+03	3.544E+03	1.695E+03	1.744E+03
6	8.056E+03	8.419E+03	3.638E+03	3.802E+03	2.063E+03	2.156E+03	1.327E+03	1.387E+03	6.809E+02	7.116E+02	3.351E+02	3.502E+02
8	2.553E+03	2.713E+03	1.153E+03	1.225E+03	6.538E+02	6.948E+02	4.205E+02	4.469E+02	2.158E+02	2.293E+02	1.062E+02	1.128E+02
10	1.048E+03	1.133E+03	4.731E+02	5.119E+02	2.683E+02	2.903E+02	1.725E+02	1.867E+02	8.854E+01	9.580E+01	4.357E+01	4.715E+01
15	2.088E+02	2.370E+02	9.404E+01	1.070E+02	5.333E+01	6.049E+01	3.430E+01	3.904E+01	1.760E+01	2.003E+01	8.661E+00	9.857E+00
20	6.648E+01	7.992E+01	3.002E+01	3.609E+01	1.702E+01	2.047E+01	1.095E+01	1.317E+01	5.619E+00	6.755E+00	2.765E+00	3.324E+00
30	1.347E+01	1.809E+01	6.083E+00	8.169E+00	3.450E+00	4.633E+00	2.219E+00	2.980E+00	1.138E+00	1.529E+00	5.603E+01	7.524E+01
45	2.818E+00	4.337E+00	1.273E+00	1.959E+00	7.218E+01	1.111E+00	4.642E+01	7.145E+01	2.382E+01	3.666E+01	1.172E+01	1.804E+01
60	9.671E+01	1.603E+00	4.367E+01	7.238E+01	2.477E+01	4.105E+01	1.593E+01	2.640E+01	8.174E+02	1.355E+01	4.022E+02	6.667E+02
75	4.401E+01	7.284E+01	1.988E+01	3.289E+01	1.127E+01	1.865E+01	7.249E+02	1.200E+01	3.720E+02	6.156E+02	1.831E+02	3.030E+02
90	2.418E+01	3.673E+01	1.072E+01	1.659E+01	6.192E+02	9.406E+02	3.982E+02	6.050E+02	2.043E+02	3.104E+02	1.006E+02	1.528E+02
120	1.075E+01	1.007E+01	4.853E+02	4.548E+02	2.752E+02	2.579E+02	1.770E+02	1.658E+02	9.082E+03	8.509E+03	4.469E+03	4.187E+03
150	6.343E+02	1.970E+02	3.136E+02	8.880E+03	1.778E+02	5.032E+03	1.144E+02	3.235E+03	5.869E+03	1.669E+03	2.888E+03	8.165E+04
179	6.045E+02	9.855E+05	2.730E+02	2.511E+05	1.548E+02	1.031E+05	9.958E+03	5.454E+06	5.109E+03	2.267E+06	2.514E+03	9.754E+07

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.129E+15	1.129E+15	5.021E+14	5.024E+14	2.827E+14	2.829E+14	1.259E+14	1.260E+14	7.095E+13	7.099E+13	4.549E+13	4.552E+13
2	7.054E+13	7.059E+13	3.138E+13	3.140E+13	1.767E+13	1.768E+13	7.869E+12	7.875E+12	4.435E+12	4.438E+12	2.844E+12	2.846E+12
3	1.394E+13	1.395E+13	6.201E+12	6.205E+12	3.491E+12	3.494E+12	1.555E+12	1.556E+12	8.762E+11	8.770E+11	5.619E+11	5.624E+11
4	4.412E+12	4.415E+12	1.963E+12	1.964E+12	1.105E+12	1.106E+12	4.921E+11	4.926E+11	2.773E+11	2.776E+11	1.778E+11	1.780E+11
6	8.723E+11	8.729E+11	3.881E+11	3.884E+11	2.185E+11	2.187E+11	9.730E+10	9.740E+10	5.484E+10	5.491E+10	3.517E+10	3.521E+10
8	2.764E+11	2.766E+11	1.230E+11	1.231E+11	6.924E+10	6.931E+10	3.083E+10	3.087E+10	1.738E+10	1.740E+10	1.114E+10	1.116E+10
10	1.134E+11	1.135E+11	5.046E+10	5.051E+10	2.841E+10	2.844E+10	1.265E+10	1.267E+10	7.130E+09	7.144E+09	4.572E+09	4.581E+09
15	2.255E+10	2.257E+10	1.003E+10	1.004E+10	5.648E+09	5.649E+09	2.515E+09	2.521E+09	1.417E+09	1.419E+09	9.089E+08	9.109E+08
20	7.198E+09	7.202E+09	3.202E+09	3.206E+09	1.803E+09	1.807E+09	8.029E+08	8.036E+08	4.525E+08	4.539E+08	2.902E+08	2.916E+08
30	1.458E+09	1.459E+09	6.488E+08	6.506E+08	3.653E+08	3.653E+08	1.627E+08	1.636E+08	9.169E+07	9.189E+07	5.879E+07	5.877E+07
45	3.052E+08	3.046E+08	1.358E+08	1.366E+08	7.644E+07	7.670E+07	3.404E+07	3.393E+07	1.918E+07	1.931E+07	1.230E+07	1.250E+07
60	1.047E+08	1.056E+08	4.658E+07	4.614E+07	2.623E+07	2.616E+07	1.168E+07	1.192E+07	6.583E+06	6.726E+06	4.221E+06	4.270E+06
75	4.765E+07	4.700E+07	2.120E+07	2.166E+07	1.194E+07	1.232E+07	5.315E+06	5.361E+06	2.996E+06	2.937E+06	1.921E+06	1.849E+06
90	2.618E+07	2.734E+07	1.165E+07	1.183E+07	6.557E+06	6.404E+06	2.920E+06	2.723E+06	1.646E+06	1.518E+06	1.055E+06	9.801E+05
120	1.613E+07	1.011E+07	5.176E+06	4.683E+06	2.914E+06	2.767E+06	1.298E+06	1.337E+06	7.314E+05	8.020E+05	4.690E+05	5.395E+05
150	7.518E+06	9.894E+06	3.345E+06	4.666E+06	1.883E+06	2.733E+06	8.386E+05	1.282E+06	4.726E+05	7.476E+05	3.031E+05	4.914E+05
179	6.546E+06	1.075E+07	2.912E+06	4.938E+06	1.640E+06	2.843E+06	7.301E+05	1.305E+06	4.115E+05	7.506E+05	2.639E+05	4.883E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.330E+13	2.332E+13	1.148E+13	1.149E+13	5.152E+12	5.156E+12	2.925E+12	2.928E+12	1.324E+12	1.325E+12	7.580E+11	7.592E+11
2	1.456E+12	1.458E+12	7.178E+11	7.185E+11	3.220E+11	3.225E+11	1.828E+11	1.831E+11	8.275E+10	8.293E+10	4.738E+10	4.750E+10
3	2.878E+11	2.881E+11	1.418E+11	1.420E+11	6.363E+10	6.373E+10	3.613E+10	3.621E+10	1.635E+10	1.639E+10	9.362E+09	9.392E+09
4	9.109E+10	9.120E+10	4.489E+10	4.496E+10	2.014E+10	2.018E+10	1.143E+10	1.147E+10	5.175E+09	5.192E+09	2.963E+09	2.976E+09
6	1.801E+10	1.804E+10	8.876E+09	8.893E+09	3.982E+09	3.995E+09	2.261E+09	2.268E+09	1.023E+09	1.028E+09	5.859E+08	5.901E+08
8	5.707E+09	5.716E+09	2.812E+09	2.821E+09	1.262E+09	1.266E+09	7.164E+08	7.189E+08	3.242E+08	3.266E+08	1.856E+08	1.871E+08
10	2.342E+09	2.347E+09	1.154E+09	1.159E+09	5.178E+08	5.194E+08	2.940E+08	2.954E+08	1.331E+08	1.344E+08	7.618E+07	7.716E+07
15	4.655E+08	4.677E+08	2.294E+08	2.300E+08	1.029E+08	1.035E+08	5.844E+07	5.912E+07	2.645E+07	2.685E+07	1.514E+07	1.536E+07
20	1.886E+08	1.889E+08	7.324E+07	7.349E+07	3.286E+07	3.359E+07	1.866E+07	1.896E+07	8.444E+06	8.554E+06	4.834E+06	4.882E+06
30	3.011E+07	3.029E+07	1.484E+07	1.509E+07	6.658E+06	6.761E+06	3.780E+06	3.809E+06	1.711E+06	1.712E+06	9.796E+05	9.846E+05
45	6.300E+06	6.418E+06	3.105E+06	3.121E+06	1.393E+06	1.394E+06	7.909E+05	7.817E+05	3.580E+05	3.620E+05	2.050E+05	2.139E+05
60	2.162E+06	2.138E+06	1.065E+06	1.037E+06	4.780E+05	4.700E+05	2.714E+05	2.742E+05	1.228E+05	1.318E+05	7.033E+04	7.948E+04
75	9.839E+05	9.368E+05	4.849E+05	4.699E+05	2.175E+05	2.222E+05	1.235E+05	1.327E+05	5.590E+04	6.515E+04	3.201E+04	3.954E+04
90	5.405E+05	5.194E+05	2.664E+05	2.715E+05	1.195E+05	1.352E+05	6.785E+04	7.972E+04	3.071E+04	3.917E+04	1.758E+04	2.365E+04
120	2.402E+05	2.962E+05	1.184E+05	1.562E+05	5.311E+04	7.497E+04	3.016E+04	4.431E+04	1.365E+04	2.097E+04	7.815E+03	1.226E+04
150	1.552E+05	2.603E+05	7.650E+04	1.322E+05	3.432E+04	6.078E+04	1.949E+04	3.486E+04	8.819E+03	1.578E+04	5.050E+03	8.929E+03
179	1.351E+05	2.549E+05	6.660E+04	1.276E+05	2.988E+04	5.775E+04	1.697E+04	3.275E+04	7.679E+03	1.458E+04	4.396E+03	8.144E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	4.935E+11	4.944E+11	2.603E+11	2.608E+11	1.336E+11	1.340E+11	6.369E+10	6.392E+10	3.813E+10	3.829E+10	1.884E+10	1.893E+10
2	3.085E+10	3.094E+10	1.627E+10	1.633E+10	8.352E+09	8.394E+09	3.981E+09	4.008E+09	2.383E+09	2.402E+09	1.178E+09	1.189E+09
3	6.096E+09	6.120E+09	3.215E+09	3.233E+09	1.650E+09	1.662E+09	7.867E+08	7.940E+08	4.709E+08	4.761E+08	2.327E+08	2.357E+08
4	1.929E+09	1.940E+09	1.017E+09	1.025E+09	5.223E+08	5.273E+08	2.490E+08	2.519E+08	1.491E+08	1.511E+08	7.365E+07	7.489E+07
6	3.815E+08	3.849E+08	2.012E+08	2.034E+08	1.033E+08	1.046E+08	4.923E+07	5.001E+07	2.947E+07	3.003E+07	1.456E+07	1.492E+07
8	1.209E+08	1.223E+08	6.375E+07	6.459E+07	3.272E+07	3.351E+07	1.560E+07	1.590E+07	9.339E+06	9.567E+06	4.614E+06	4.766E+06
10	4.960E+07	5.028E+07	2.616E+07	2.653E+07	1.343E+07	1.365E+07	6.401E+06	6.552E+06	3.832E+06	3.950E+06	1.893E+06	1.974E+06
15	9.861E+06	9.988E+06	5.200E+06	5.275E+06	2.669E+06	2.758E+06	1.273E+06	1.321E+06	7.618E+05	8.019E+05	3.744E+05	4.043E+05
20	3.148E+06	3.179E+06	1.660E+06	1.688E+06	8.521E+05	8.880E+05	4.062E+05	4.312E+05	2.432E+05	2.636E+05	1.202E+05	1.340E+05
30	6.378E+05	6.479E+05	3.364E+05	3.508E+05	1.727E+05	1.869E+05	8.231E+04	9.341E+04	4.928E+04	5.777E+04	2.435E+04	2.974E+04
45	1.335E+05	1.437E+05	7.038E+04	7.991E+04	3.613E+04	4.350E+04	1.722E+04	2.209E+04	1.031E+04	1.376E+04	5.094E+03	7.130E+03
60	4.579E+04	5.399E+04	2.415E+04	3.035E+04	1.240E+04	1.640E+04	5.910E+03	8.428E+03	3.538E+03	5.238E+03	1.748E+03	2.700E+03
75	2.084E+04	2.89E+04	1.099E+04	1.507E+04	5.642E+03	8.182E+03	2.690E+03	4.105E+03	1.610E+03	2.528E+03	7.955E+02	1.285E+03
90	1.145E+04	1.598E+04	6.038E+03	8.841E+03	3.099E+03	4.720E+03	1.477E+03	2.318E+03	8.845E+02	1.405E+03	4.370E+02	6.984E+02
120	5.088E+03	1.062E+04	2.683E+03	4.264E+03	1.377E+03	2.168E+03	6.567E+02	9.898E+02	3.931E+02	5.689E+02	1.942E+02	2.614E+02
150	3.288E+03	5.711E+03	1.734E+03	2.884E+03	8.901E+02	1.378E+03	4.243E+02	5.830E+02	2.540E+02	3.124E+02	1.255E+02	1.272E+02
179	2.863E+03	5.152E+03	1.510E+03	2.552E+03	7.749E+02	1.189E+03	3.694E+02	4.843E+02	2.212E+02	2.500E+02	1.093E+02	9.452E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.156E+10	1.162E+10	7.952E+09	8.002E+09	4.547E+09	4.577E+09	2.516E+09	2.533E+09	1.273E+09	1.282E+09	7.776E+08	7.833E+08
2	7.224E+08	7.299E+08	4.971E+08	5.026E+08	2.843E+08	2.877E+08	1.573E+08	1.593E+08	7.958E+07	8.068E+07	4.861E+07	4.930E+07
3	1.427E+08	1.449E+08	9.821E+07	9.979E+07	5.616E+07	5.716E+07	3.107E+07	3.167E+07	1.572E+07	1.604E+07	9.604E+06	9.804E+06
4	4.518E+07	4.605E+07	3.109E+07	3.174E+07	1.778E+07	1.819E+07	9.835E+06	1.009E+07	4.977E+06	5.112E+06	3.049E+06	3.124E+06
6	8.933E+06	9.188E+06	6.147E+06	6.341E+06	3.515E+06	3.640E+06	1.945E+06	2.020E+06	9.841E+05	1.025E+06	6.011E+05	6.267E+05
8	2.831E+06	2.941E+06	1.948E+06	2.032E+06	1.114E+06	1.149E+06	6.162E+05	6.494E+05	3.118E+05	3.298E+05	1.905E+05	2.017E+05
10	1.167E+06	1.221E+06	7.992E+05	8.447E+05	4.570E+05	4.866E+05	2.529E+05	2.708E+05	1.280E+05	1.376E+05	7.816E+04	8.423E+04
15	2.307E+05	2.513E+05	1.589E+05	1.745E+05	9.085E+04	1.009E+05	5.027E+04	5.633E+04	2.544E+04	2.870E+04	1.554E+04	1.758E+04
20	7.371E+04	8.372E+04	5.072E+04	5.830E+04	2.960E+04	3.384E+04	1.605E+04	1.893E+04	8.120E+03	9.663E+03	4.960E+03	5.924E+03
30	1.494E+04	1.870E+04	1.028E+04	1.307E+04	5.877E+03	7.618E+03	3.251E+03	4.276E+03	1.645E+03	2.187E+03	1.005E+03	1.342E+03
45	3.125E+03	4.493E+03	2.150E+03	3.144E+03	1.230E+03	1.875E+03	6.803E+02	1.030E+03	3.443E+02	5.270E+02	2.103E+02	3.234E+02
60	1.072E+03	1.695E+03	7.378E+02	1.183E+03	4.219E+02	6.876E+02	2.334E+02	3.849E+02	1.181E+02	1.964E+02	7.215E+01	1.204E+02
75	4.880E+02	7.997E+02	3.358E+02	5.546E+02	1.920E+02	3.197E+02	1.062E+02	1.778E+02	5.376E+01	9.027E+01	3.284E+01	5.520E+01
90	2.681E+02	4.281E+02	1.845E+02	2.937E+02	1.055E+02	1.670E+02	5.836E+01	9.185E+01	2.953E+01	4.622E+01	1.804E+01	2.815E+01
120	1.192E+02	1.514E+02	8.198E+01	9.962E+01	4.886E+01	5.346E+01	2.594E+01	2.795E+01	1.313E+01	1.349E+01	8.017E+00	8.056E+00
150	7.699E+01	6.647E+01	5.297E+01	4.002E+01	3.029E+01	1.861E+01	1.676E+01	3.558E+00	8.482E+00	3.463E+00	5.180E+00	1.898E+00
179	6.703E+01	4.579E+01	4.612E+01	2.552E+01	2.638E+01	1.014E+01	1.459E+01	8.349E+00	7.384E+00	1.026E+00	4.510E+00	4.020E-01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	3.815E+08	3.843E+08	2.272E+08	2.289E+08	1.509E+08	1.521E+08	8.061E+07	8.122E+07	4.097E+07	4.128E+07	1.877E+07	1.891E+07
2	2.385E+07	2.419E+07	1.420E+07	1.441E+07	9.434E+06	9.570E+06	5.039E+06	5.111E+06	2.561E+06	2.598E+06	1.173E+06	1.190E+06
3	4.711E+06	4.812E+06	2.806E+06	2.866E+06	1.864E+06	1.904E+06	9.955E+05	1.017E+06	5.060E+05	5.170E+05	2.318E+05	2.368E+05
4	1.491E+06	1.534E+06	8.882E+05	9.136E+05	5.900E+05	6.070E+05	3.151E+05	3.242E+05	1.602E+05	1.648E+05	7.336E+04	7.549E+04
6	2.949E+05	3.377E+05	1.756E+05	1.834E+05	1.167E+05	1.218E+05	6.231E+04	6.508E+04	3.167E+04	3.308E+04	1.451E+04	1.515E+04
8	9.343E+04	9.910E+04	5.565E+04	5.905E+04	3.697E+04	3.924E+04	1.974E+04	2.096E+04	1.004E+04	1.066E+04	4.596E+03	4.882E+03
10	3.834E+04	4.139E+04	2.283E+04	2.467E+04	1.517E+04	1.639E+04	8.101E+03	8.758E+03	4.118E+03	4.453E+03	1.886E+03	2.040E+03
15	7.622E+03	8.646E+03	4.539E+03	5.155E+03	3.015E+03	3.426E+03	1.610E+03	1.831E+03	8.186E+02	9.309E+02	3.749E+02	4.264E+02
20	2.433E+03	2.916E+03	1.449E+03	1.739E+03	9.626E+02	1.166E+03	5.141E+02	6.177E+02	2.613E+02	3.141E+02	1.197E+02	1.439E+02
30	4.930E+02	6.100E+02	2.936E+02	3.943E+02	1.951E+02	2.622E+02	1.042E+02	1.401E+02	5.295E+01	7.125E+01	2.425E+01	3.265E+01
45	1.032E+02	1.593E+02	6.143E+01	9.503E+01	4.081E+01	6.318E+01	2.180E+01	3.377E+01	1.108E+01	1.717E+01	5.075E+00	7.868E+00
60	3.540E+01	5.924E+01	2.108E+01	3.533E+01	1.400E+01	2.348E+01	7.479E+00	1.255E+01	3.802E+00	6.380E+00	1.741E+00	2.923E+00
75	1.611E+01	2.711E+01	9.594E+00	1.615E+01	6.373E+00	1.073E+01	3.404E+00	5.732E+00	1.730E+00	2.914E+00	7.924E-01	1.335E+00
90	8.849E+00	1.378E+01	5.270E+00	8.195E+00	3.501E+00	5.441E+00	1.870E+00	2.904E+00	9.504E-01	1.476E+00	4.353E-01	6.759E-01
120	3.933E+00	3.872E+00	2.342E+00	2.286E+00	1.556E+00	1.512E+00	8.310E-01	8.041E-01	4.224E-01	4.078E-01	1.935E-01	1.865E-01
150	2.541E+00	8.381E-01	1.514E+00	4.763E-01	1.005E+00	3.087E-01	5.370E-01	1.610E-01	2.730E-01	8.073E-02	1.250E-01	3.669E-02
179	2.213E+00	1.011E-01	1.318E+00	3.666E-02	8.754E-01	1.641E-02	4.675E-01	4.792E-03	2.376E-01	1.284E-03	1.088E-01	2.903E-04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.072E+07	1.080E+07	4.842E+06	4.879E+06	2.746E+06	2.747E+06	1.766E+06	1.780E+06	9.063E+05	9.132E+05	4.460E+05	4.494E+05
2	6.703E+05	6.800E+05	3.027E+05	3.071E+05	1.717E+05	1.741E+05	1.104E+05	1.120E+05	5.665E+04	5.747E+04	2.788E+04	2.828E+04
3	1.324E+05	1.353E+05	5.981E+04	6.111E+04	3.392E+04	3.465E+04	2.181E+04	2.229E+04	1.119E+04	1.144E+04	5.508E+03	5.628E+03
4	4.192E+04	4.313E+04	1.893E+04	1.948E+04	1.074E+04	1.105E+04	6.905E+03	7.105E+03	3.543E+03	3.646E+03	1.743E+03	1.794E+03
6	8.288E+03	8.558E+03	3.743E+03	3.910E+03	2.123E+03	2.218E+03	1.365E+03	1.426E+03	7.005E+02	7.318E+02	3.447E+02	3.601E+02
8	2.626E+03	2.789E+03	1.186E+03	1.260E+03	6.726E+02	7.144E+02	4.326E+02	4.595E+02	2.220E+02	2.358E+02	1.092E+02	1.160E+02
10	1.078E+03	1.165E+03	4.867E+02	5.263E+02	2.760E+02	2.985E+02	1.775E+02	1.920E+02	9.108E+01	9.850E+01	4.482E+01	4.848E+01
15	2.142E+02	2.437E+02	9.675E+01	1.100E+02	5.487E+01	6.241E+01	3.529E+01	4.014E+01	1.811E+01	2.060E+01	8.910E+00	1.014E+01
20	6.839E+01	8.222E+01	3.088E+01	3.713E+01	1.751E+01	2.106E+01	1.126E+01	1.354E+01	5.780E+00	6.950E+00	2.845E+00	3.420E+00
30	1.386E+01	1.865E+01	6.258E+00	8.425E+00	3.549E+00	4.778E+00	2.283E+00	3.073E+00	1.171E+00	1.577E+00	5.764E-01	7.760E-01
45	2.899E+00	4.496E+00	1.309E+00	2.030E+00	7.426E-01	1.151E+00	4.776E-01	7.406E-01	2.451E-01	3.800E-01	1.206E-01	1.879E-01
60	9.949E-01	1.670E+00	4.493E-01	7.543E-01	2.548E-01	4.278E-01	1.639E-01	2.751E-01	8.409E-02	1.412E-01	4.138E-02	6.947E-02
75	4.528E-01	7.627E-01	2.045E-01	3.444E-01	1.160E-01	1.963E-01	7.458E-02	1.256E-01	3.827E-02	6.446E-02	1.883E-02	3.172E-02
90	2.487E-01	3.861E-01	1.123E-01	1.744E-01	6.370E-02	9.889E-02	4.097E-02	6.360E-02	2.102E-02	3.263E-02	1.035E-02	1.606E-02
120	1.105E-01	1.065E-01	4.992E-02	4.809E-02	2.831E-02	2.727E-02	1.821E-02	1.754E-02	9.343E-03	8.998E-03	4.598E-03	4.428E-03
150	7.143E-02	2.090E-02	3.226E-02	9.420E-03	1.829E-02	5.338E-03	1.177E-02	3.342E-03	6.037E-03	1.761E-03	3.297E-03	8.662E-04
179	6.219E-02	1.040E-04	2.809E-02	2.654E-05	1.593E-02	1.091E-05	1.024E-02	5.775E-06	5.256E-03	2.403E-06	2.587E-03	1.035E-06

HF (72)

(BARNs/STERADIAN)

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	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.161E+15	1.161E+15	5.163E+14	5.166E+14	2.907E+14	2.909E+14	1.295E+14	1.295E+14	7.296E+13	7.301E+13	4.678E+13	4.681E+13
2	7.255E+13	7.259E+13	3.227E+13	3.229E+13	1.817E+13	1.818E+13	8.092E+12	8.098E+12	4.561E+12	4.564E+12	2.924E+12	2.927E+12
3	1.433E+13	1.434E+13	6.377E+12	6.381E+12	3.590E+12	3.593E+12	1.599E+12	1.600E+12	9.011E+11	9.019E+11	5.778E+11	5.784E+11
4	4.537E+12	4.540E+12	2.018E+12	2.020E+12	1.136E+12	1.137E+12	5.061E+11	5.065E+11	2.852E+11	2.855E+11	1.829E+11	1.831E+11
5	8.971E+11	8.977E+11	3.991E+11	3.994E+11	2.247E+11	2.249E+11	1.001E+11	1.002E+11	5.640E+10	5.647E+10	3.616E+10	3.620E+10
8	2.842E+11	2.845E+11	1.265E+11	1.266E+11	7.120E+10	7.128E+10	3.171E+10	3.175E+10	1.787E+10	1.789E+10	1.146E+10	1.148E+10
10	1.166E+11	1.167E+11	5.189E+10	5.194E+10	2.922E+10	2.924E+10	1.301E+10	1.303E+10	7.333E+09	7.346E+09	4.702E+09	4.712E+09
15	2.319E+10	2.320E+10	1.032E+10	1.032E+10	5.808E+09	5.816E+09	2.586E+09	2.593E+09	1.458E+09	1.460E+09	9.347E+08	9.365E+08
20	7.402E+09	7.407E+09	3.293E+09	3.297E+09	1.854E+09	1.857E+09	8.257E+08	8.266E+08	4.653E+08	4.666E+08	2.984E+08	2.999E+08
30	1.500E+09	1.500E+09	6.672E+08	6.692E+08	3.757E+08	3.757E+08	1.673E+08	1.683E+08	9.429E+07	9.456E+07	6.046E+07	6.044E+07
45	3.138E+08	3.133E+08	1.396E+08	1.404E+08	7.861E+07	7.896E+07	3.500E+07	3.487E+07	1.973E+07	1.983E+07	1.265E+07	1.285E+07
60	1.077E+08	1.087E+08	4.791E+07	4.746E+07	2.697E+07	2.685E+07	1.201E+07	1.225E+07	6.770E+06	6.928E+06	4.341E+06	4.403E+06
75	4.901E+07	4.821E+07	2.180E+07	2.223E+07	1.228E+07	1.248E+07	5.466E+06	5.534E+06	3.081E+06	3.030E+06	1.975E+06	1.904E+06
90	2.692E+07	2.815E+07	1.198E+07	1.222E+07	6.743E+06	6.616E+06	3.003E+06	2.803E+06	1.692E+06	1.557E+06	1.085E+06	1.003E+06
120	1.196E+07	1.033E+07	5.323E+06	4.773E+06	2.997E+06	2.819E+06	1.335E+06	1.365E+06	7.522E+05	8.199E+05	4.823E+05	5.524E+05
150	7.731E+06	1.019E+07	3.440E+06	4.817E+06	1.937E+06	2.825E+06	8.624E+05	1.327E+06	4.860E+05	7.751E+05	3.117E+05	5.099E+05
179	6.731E+06	1.117E+07	2.995E+06	5.135E+06	1.686E+06	2.958E+06	7.508E+05	1.359E+06	4.232E+05	7.824E+05	2.713E+05	5.093E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.396E+13	2.398E+13	1.181E+13	1.182E+13	5.298E+12	5.303E+12	3.008E+12	3.011E+12	1.361E+12	1.363E+12	7.795E+11	7.808E+11
2	1.498E+12	1.499E+12	7.381E+11	7.389E+11	3.312E+11	3.316E+11	1.880E+11	1.883E+11	8.510E+10	8.528E+10	4.873E+10	4.884E+10
3	2.959E+11	2.962E+11	1.458E+11	1.460E+11	6.543E+10	6.554E+10	3.715E+10	3.723E+10	1.681E+10	1.686E+10	9.627E+09	9.658E+09
4	9.367E+10	9.379E+10	4.616E+10	4.623E+10	2.071E+10	2.076E+10	1.176E+10	1.179E+10	5.322E+09	5.339E+09	3.047E+09	3.060E+09
6	1.852E+10	1.856E+10	9.128E+09	9.144E+09	4.095E+09	4.109E+09	2.325E+09	2.333E+09	1.052E+09	1.057E+09	6.025E+08	6.068E+08
8	5.869E+09	5.878E+09	2.892E+09	2.901E+09	1.298E+09	1.302E+09	7.367E+08	7.393E+08	3.334E+08	3.358E+08	1.909E+08	1.929E+08
10	2.408E+09	2.413E+09	1.187E+09	1.192E+09	5.325E+08	5.341E+08	3.023E+08	3.037E+08	1.368E+08	1.382E+08	7.834E+07	7.937E+07
15	4.787E+08	4.810E+08	2.359E+08	2.366E+08	1.058E+08	1.064E+08	6.010E+07	6.078E+07	2.720E+07	2.763E+07	1.557E+07	1.580E+07
20	1.528E+08	1.532E+08	7.531E+07	7.554E+07	3.379E+07	3.422E+07	1.918E+07	1.951E+07	8.683E+06	8.806E+06	4.972E+06	5.024E+06
30	3.097E+07	3.112E+07	1.526E+07	1.551E+07	6.847E+06	6.962E+06	3.887E+06	3.922E+06	1.759E+06	1.760E+06	1.007E+06	1.011E+06
45	6.479E+06	6.608E+06	3.193E+06	3.216E+06	1.433E+06	1.417E+06	8.134E+05	8.029E+05	3.681E+05	3.710E+05	2.108E+05	2.191E+05
60	2.223E+06	2.204E+06	1.096E+06	1.067E+06	4.916E+05	4.819E+05	2.791E+05	2.807E+05	1.263E+05	1.349E+05	7.233E+04	8.142E+04
75	1.012E+06	9.619E+05	4.986E+05	4.811E+05	2.237E+05	2.272E+05	1.270E+05	1.358E+05	5.749E+04	6.678E+04	3.291E+04	4.061E+04
90	5.558E+05	5.307E+05	2.739E+05	2.774E+05	1.229E+05	1.352E+05	6.977E+04	8.173E+04	3.158E+04	4.029E+04	1.808E+04	2.438E+04
120	2.470E+05	3.040E+05	1.217E+05	1.608E+05	5.462E+04	7.740E+04	3.101E+04	4.585E+04	1.404E+04	2.175E+04	8.036E+03	1.274E+04
150	1.596E+05	2.705E+05	7.867E+04	1.375E+05	3.529E+04	6.336E+04	2.004E+04	3.638E+04	9.070E+03	1.650E+04	5.193E+03	9.344E+03
179	1.390E+05	2.661E+05	6.849E+04	1.333E+05	3.073E+04	6.041E+04	1.745E+04	3.429E+04	7.896E+03	1.529E+04	4.521E+03	8.544E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	5.075E+11	5.085E+11	2.677E+11	2.682E+11	1.374E+11	1.378E+11	6.550E+10	6.573E+10	3.921E+10	3.937E+10	1.937E+10	1.947E+10
2	3.173E+10	3.181E+10	1.673E+10	1.680E+10	8.589E+09	8.632E+09	4.094E+09	4.121E+09	2.451E+09	2.470E+09	1.211E+09	1.222E+09
3	6.269E+09	6.294E+09	3.306E+09	3.325E+09	1.697E+09	1.710E+09	8.090E+08	8.166E+08	4.843E+08	4.895E+08	2.393E+08	2.424E+08
4	1.984E+09	1.995E+09	1.046E+09	1.054E+09	5.371E+08	5.423E+08	2.561E+08	2.591E+08	1.533E+08	1.554E+08	7.574E+07	7.701E+07
6	3.923E+08	3.959E+08	2.069E+08	2.092E+08	1.062E+08	1.076E+08	5.063E+07	5.143E+07	3.031E+07	3.088E+07	1.498E+07	1.534E+07
8	1.243E+08	1.258E+08	6.556E+07	6.644E+07	3.365E+07	3.416E+07	1.604E+07	1.635E+07	9.604E+06	9.836E+06	4.745E+06	4.899E+06
10	5.101E+07	5.172E+07	2.690E+07	2.729E+07	1.381E+07	1.404E+07	6.583E+06	6.736E+06	3.941E+06	4.060E+06	1.947E+06	2.029E+06
15	1.014E+07	1.028E+07	5.348E+06	5.425E+06	2.745E+06	2.804E+06	1.309E+06	1.357E+06	7.834E+05	8.235E+05	3.871E+05	4.152E+05
20	3.237E+06	3.269E+06	1.707E+06	1.734E+06	8.763E+05	9.043E+05	4.178E+05	4.426E+05	2.501E+05	2.706E+05	1.236E+05	1.376E+05
30	6.559E+05	6.649E+05	3.459E+05	3.597E+05	1.776E+05	1.916E+05	8.465E+04	9.281E+04	5.068E+04	5.930E+04	2.504E+04	3.056E+04
45	1.372E+05	1.472E+05	7.238E+04	8.190E+04	3.715E+04	4.464E+04	1.771E+04	2.271E+04	1.060E+04	1.417E+04	5.239E+03	7.305E+03
60	4.709E+04	5.537E+04	2.484E+04	3.119E+04	1.275E+04	1.710E+04	6.078E+03	8.702E+03	3.638E+03	5.418E+03	1.798E+03	2.799E+03
75	2.143E+04	2.767E+04	1.130E+04	1.555E+04	5.802E+03	8.461E+03	2.766E+03	4.257E+03	1.656E+03	2.626E+03	8.181E+02	1.338E+03
90	1.177E+04	1.650E+04	6.209E+03	9.153E+03	3.187E+03	4.900E+03	1.510E+03	2.413E+03	9.096E+02	1.465E+03	4.494E+02	7.300E+02
120	5.233E+03	8.391E+03	2.760E+03	4.446E+03	1.417E+03	2.255E+03	6.753E+02	1.036E+03	4.043E+02	5.965E+02	1.997E+02	2.746E+02
150	3.381E+03	5.981E+03	1.783E+03	3.024E+03	9.153E+02	1.446E+03	4.364E+02	6.127E+02	2.612E+02	3.286E+02	1.291E+02	1.339E+02
179	2.944E+03	5.409E+03	1.552E+03	2.682E+03	7.969E+02	1.250E+03	3.747E+02	5.097E+02	2.274E+02	2.633E+02	1.124E+02	9.957E+01

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.188E+10	1.195E+10	8.177E+09	8.229E+09	4.676E+09	4.706E+09	2.587E+09	2.605E+09	1.309E+09	1.319E+09	7.997E+08	8.056E+08
2	7.429E+08	7.506E+08	5.112E+08	5.168E+08	2.923E+08	2.959E+08	1.617E+08	1.638E+08	8.184E+07	8.297E+07	4.999E+07	5.069E+07
3	1.466E+08	1.490E+08	1.010E+08	1.026E+08	5.776E+07	5.878E+07	3.196E+07	3.257E+07	1.617E+07	1.650E+07	9.877E+06	1.008E+07
4	4.646E+07	4.735E+07	3.197E+07	3.264E+07	1.828E+07	1.871E+07	1.011E+07	1.037E+07	5.118E+06	5.256E+06	3.176E+06	3.213E+06
6	9.187E+06	9.447E+06	6.321E+06	6.519E+06	3.615E+06	3.742E+06	2.000E+06	2.077E+06	1.012E+06	1.054E+06	6.181E+05	6.443E+05
8	2.911E+06	3.023E+06	2.003E+06	2.089E+06	1.145E+06	1.201E+06	6.337E+05	6.575E+05	3.207E+05	3.390E+05	1.959E+05	2.074E+05
10	1.194E+06	1.254E+06	8.219E+05	8.680E+05	4.700E+05	5.000E+05	2.600E+05	2.782E+05	1.316E+05	1.414E+05	8.037E+04	8.656E+04
15	2.375E+05	2.581E+05	1.634E+05	1.792E+05	9.343E+04	1.037E+05	5.169E+04	5.788E+04	2.616E+04	2.949E+04	1.598E+04	1.807E+04
20	7.580E+04	8.598E+04	5.216E+04	5.989E+04	2.983E+04	3.477E+04	1.650E+04	1.946E+04	8.351E+03	9.932E+03	5.100E+03	6.091E+03
30	1.536E+04	1.922E+04	1.057E+04	1.345E+04	6.044E+03	7.842E+03	3.344E+03	4.404E+03	1.692E+03	2.253E+03	1.033E+03	1.383E+03
45	3.214E+03	4.639E+03	2.211E+03	3.249E+03	1.264E+03	1.897E+03	6.996E+02	1.066E+03	3.540E+02	5.456E+02	2.162E+02	3.349E+02
60	1.103E+03	1.759E+03	7.588E+02	1.229E+03	4.339E+02	7.148E+02	2.401E+02	4.004E+02	1.215E+02	2.044E+02	7.202E+01	1.254E+02
75	5.019E+02	8.337E+02	3.453E+02	5.786E+02	1.975E+02	3.349E+02	1.093E+02	1.259E+02	5.529E+01	9.442E+01	3.377E+01	5.776E+01
90	2.757E+02	4.480E+02	1.897E+02	3.077E+02	1.085E+02	1.751E+02	6.002E+01	9.640E+01	3.037E+01	4.854E+01	1.855E+01	2.957E+01
120	1.225E+02	1.593E+02	8.431E+01	1.049E+02	4.821E+01	5.635E+01	2.667E+01	2.949E+01	1.350E+01	1.425E+01	8.245E+00	8.510E+00
150	7.918E+01	7.003E+01	5.448E+01	4.219E+01	3.115E+01	1.944E+01	1.724E+01	8.831E+00	8.722E+00	3.664E+00	5.327E+00	2.010E+00
179	6.893E+01	4.825E+01	4.743E+01	2.689E+01	2.712E+01	1.068E+01	1.501E+01	3.788E+00	7.594E+00	1.081E+00	4.638E+00	4.237E+00
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	3.923E+08	3.952E+08	2.336E+08	2.354E+08	1.552E+08	1.564E+08	8.289E+07	8.352E+07	4.214E+07	4.246E+07	1.930E+07	1.945E+07
2	2.452E+07	2.488E+07	1.460E+07	1.482E+07	9.702E+06	9.843E+06	5.182E+06	5.257E+06	2.634E+06	2.672E+06	1.206E+06	1.224E+06
3	4.845E+06	4.948E+06	2.886E+06	2.948E+06	1.917E+06	1.958E+06	1.024E+06	1.046E+06	5.204E+05	5.317E+05	2.384E+05	2.435E+05
4	1.534E+06	1.577E+06	9.134E+05	9.394E+05	6.067E+05	6.241E+05	3.240E+05	3.334E+05	1.647E+05	1.695E+05	7.544E+04	7.762E+04
6	3.032E+05	3.164E+05	1.806E+05	1.885E+05	1.200E+05	1.252E+05	6.407E+04	6.690E+04	3.257E+04	3.401E+04	1.492E+04	1.558E+04
8	9.608E+04	1.019E+05	5.722E+04	6.070E+04	3.801E+04	4.033E+04	2.030E+04	2.155E+04	1.032E+04	1.095E+04	4.727E+03	5.018E+03
10	3.943E+04	4.254E+04	2.348E+04	2.535E+04	1.560E+04	1.685E+04	8.331E+03	9.001E+03	4.235E+03	4.576E+03	1.940E+03	2.096E+03
15	7.838E+03	8.866E+03	4.668E+03	5.298E+03	3.101E+03	3.521E+03	1.656E+03	1.892E+03	8.418E+02	9.567E+02	3.856E+02	4.383E+02
20	2.502E+03	2.998E+03	1.490E+03	1.788E+03	9.899E+02	1.149E+03	5.287E+02	6.351E+02	2.487E+02	3.230E+02	1.231E+02	1.480E+02
30	5.070E+02	6.811E+02	3.019E+02	4.063E+02	2.006E+02	2.702E+02	1.071E+02	1.444E+02	5.445E+01	7.343E+01	2.494E+01	3.364E+01
45	1.061E+02	1.650E+02	6.318E+01	9.844E+01	4.197E+01	6.545E+01	2.241E+01	3.498E+01	1.139E+01	1.779E+01	5.219E+00	8.150E+00
60	3.640E+01	6.169E+01	2.168E+01	3.679E+01	1.440E+01	2.446E+01	7.691E+00	1.307E+01	3.910E+00	6.646E+00	1.791E+00	3.045E+00
75	1.657E+01	2.837E+01	9.866E+00	1.690E+01	6.554E+00	1.123E+01	3.500E+00	6.000E+00	1.779E+00	3.050E+00	8.149E+00	1.397E+00
90	9.100E+00	1.447E+01	5.420E+00	8.612E+00	3.600E+00	5.718E+00	1.923E+00	3.052E+00	9.774E+01	1.551E+00	4.477E+01	7.104E+01
120	4.044E+00	4.091E+00	2.409E+00	2.416E+00	1.600E+00	1.598E+00	8.546E+01	8.401E+01	4.344E+01	4.311E+01	1.990E+01	1.972E+01
150	2.613E+00	8.881E-01	1.556E+00	5.049E-01	1.034E+00	3.273E-01	5.522E+01	1.708E-01	2.807E-01	8.563E-02	1.286E-01	3.892E-02
179	2.275E+00	1.066E-01	1.355E+00	3.864E-02	9.002E-01	1.730E-02	4.808E-01	5.053E-03	2.444E-01	1.354E-03	1.119E-01	3.063E-04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.103E+07	1.111E+07	4.980E+06	5.018E+06	2.824E+06	2.846E+06	1.816E+06	1.830E+06	9.320E+05	9.391E+05	4.586E+05	4.621E+05
2	6.893E+05	6.994E+05	3.113E+05	3.159E+05	1.765E+05	1.791E+05	1.135E+05	1.152E+05	5.826E+04	5.911E+04	2.867E+04	2.909E+04
3	1.362E+05	1.391E+05	6.150E+04	6.284E+04	3.488E+04	3.564E+04	2.243E+04	2.292E+04	1.151E+04	1.176E+04	5.664E+03	5.787E+03
4	4.311E+04	4.435E+04	1.947E+04	2.003E+04	1.104E+04	1.136E+04	7.100E+03	7.306E+03	3.643E+03	3.749E+03	1.793E+03	1.845E+03
6	8.523E+03	8.901E+03	3.849E+03	4.020E+03	2.183E+03	2.280E+03	1.404E+03	1.466E+03	7.204E+02	7.524E+02	3.545E+02	3.703E+02
8	2.701E+03	2.867E+03	1.220E+03	1.295E+03	6.917E+02	7.343E+02	4.449E+02	4.723E+02	2.283E+02	2.423E+02	1.123E+02	1.193E+02
10	1.108E+03	1.196E+03	5.005E+02	5.409E+02	2.838E+02	3.068E+02	1.825E+02	1.973E+02	9.367E+01	1.012E+02	4.609E+01	4.982E+01
15	2.203E+02	2.504E+02	9.949E+01	1.131E+02	5.642E+01	6.414E+01	3.629E+01	4.125E+01	1.862E+01	2.117E+01	9.163E+00	1.042E+01
20	7.033E+01	8.454E+01	3.176E+01	3.818E+01	1.801E+01	2.145E+01	1.158E+01	1.393E+01	5.944E+00	7.146E+00	2.925E+00	3.517E+00
30	1.425E+01	1.922E+01	6.436E+00	8.682E+00	3.650E+00	4.924E+00	2.347E+00	3.167E+00	1.204E+00	1.625E+00	5.927E+01	7.997E+01
45	2.982E+00	4.657E+00	1.347E+00	2.103E+00	7.636E-01	1.193E+00	4.911E-01	7.672E-01	2.520E-01	3.937E-01	1.240E-01	1.937E-01
60	1.023E+00	1.740E+00	4.621E-01	7.857E-01	2.620E-01	4.450E-01	1.685E-01	2.866E-01	8.648E-02	1.470E-01	4.256E-02	7.237E-02
75	4.656E-01	7.983E-01	2.103E-01	3.605E-01	1.192E-01	2.045E-01	7.670E-02	1.315E-01	3.935E-02	6.747E-02	1.937E-02	3.320E-02
90	2.558E-01	4.058E-01	1.155E-01	1.833E-01	6.551E-02	1.039E-01	4.213E-02	6.885E-02	2.162E-02	3.430E-02	1.064E-02	1.688E-02
120	1.137E-01	1.126E-01	5.134E-02	5.084E-02	2.911E-02	2.883E-02	1.873E-02	1.854E-02	9.608E-03	9.513E-03	4.728E-03	4.681E-03
150	7.344E-02	2.217E-02	3.317E-02	9.992E-03	1.881E-02	5.663E-03	1.210E-02	3.641E-03	6.209E-03	1.868E-03	3.055E-03	9.189E-04
179	6.396E-02	1.098E-04	2.888E-02	2.805E-05	1.638E-02	1.145E-05	1.053E-02	6.115E-06	5.406E-03	2.547E-06	2.660E-03	1.098E-06

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DE0	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.193E+15	1.194E+15	5.307E+14	5.311E+14	2.988E+14	2.990E+14	1.331E+14	1.332E+14	7.500E+13	7.505E+13	4.809E+13	4.812E+13
2	7.457E+13	7.462E+13	3.318E+13	3.320E+13	1.868E+13	1.869E+13	8.318E+12	8.324E+12	4.688E+12	4.692E+12	3.006E+12	3.009E+12
3	1.473E+13	1.474E+13	6.555E+12	6.560E+12	3.691E+12	3.693E+12	1.644E+12	1.645E+12	9.263E+11	9.271E+11	5.940E+11	5.945E+11
4	4.664E+12	4.667E+12	2.075E+12	2.076E+12	1.168E+12	1.169E+12	5.202E+11	5.207E+11	2.932E+11	2.935E+11	1.880E+11	1.882E+11
6	9.222E+11	9.228E+11	4.103E+11	4.106E+11	2.310E+11	2.312E+11	1.029E+11	1.030E+11	5.797E+10	5.805E+10	3.717E+10	3.722E+10
8	2.922E+11	2.924E+11	1.300E+11	1.301E+11	7.319E+10	7.327E+10	3.259E+10	3.264E+10	1.837E+10	1.839E+10	1.178E+10	1.180E+10
10	1.199E+11	1.200E+11	5.334E+10	5.339E+10	3.003E+10	3.006E+10	1.337E+10	1.339E+10	7.538E+09	7.551E+09	4.833E+09	4.844E+09
15	2.384E+10	2.385E+10	1.060E+10	1.061E+10	5.970E+09	5.980E+09	2.659E+09	2.665E+09	1.498E+09	1.501E+09	9.608E+08	9.625E+08
20	7.609E+09	7.616E+09	3.385E+09	3.390E+09	1.906E+09	1.909E+09	8.487E+08	8.499E+08	4.783E+08	4.794E+08	3.067E+08	3.083E+08
30	1.542E+09	1.543E+09	6.859E+08	6.881E+08	3.862E+08	3.862E+08	1.720E+08	1.730E+08	9.693E+07	9.728E+07	6.215E+07	6.214E+07
45	3.226E+08	3.223E+08	1.435E+08	1.443E+08	8.081E+07	8.125E+07	3.598E+07	3.583E+07	2.028E+07	2.036E+07	1.300E+07	1.319E+07
60	1.107E+08	1.119E+08	4.925E+07	4.881E+07	2.773E+07	2.765E+07	1.235E+07	1.258E+07	6.959E+06	7.132E+06	4.462E+06	4.537E+06
75	5.038E+07	4.945E+07	2.241E+07	2.280E+07	1.262E+07	1.305E+07	5.619E+06	5.710E+06	3.167E+06	3.125E+06	2.031E+06	1.961E+06
90	2.767E+07	2.896E+07	1.231E+07	1.263E+07	6.932E+06	6.855E+06	3.087E+06	2.885E+06	1.740E+06	1.597E+06	1.116E+06	1.027E+06
120	1.230E+07	1.055E+07	5.472E+06	4.862E+06	3.081E+06	2.871E+06	1.372E+06	1.392E+06	7.732E+05	8.375E+05	4.958E+05	5.652E+05
150	7.948E+06	1.050E+07	3.536E+06	4.969E+06	1.991E+06	2.918E+06	8.865E+05	1.374E+06	4.996E+05	8.031E+05	3.204E+05	5.289E+05
179	6.920E+06	1.160E+07	3.078E+06	5.338E+06	1.733E+06	3.077E+06	7.718E+05	1.415E+06	4.350E+05	8.152E+05	2.789E+05	5.309E+05
DE0	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.463E+13	2.465E+13	1.214E+13	1.215E+13	5.446E+12	5.451E+12	3.092E+12	3.095E+12	1.400E+12	1.402E+12	8.013E+11	8.026E+11
2	1.540E+12	1.541E+12	7.588E+11	7.596E+11	3.404E+11	3.409E+11	1.933E+11	1.936E+11	8.748E+10	8.767E+10	5.009E+10	5.021E+10
3	3.042E+11	3.045E+11	1.499E+11	1.501E+11	6.726E+10	6.737E+10	3.819E+10	3.827E+10	1.728E+10	1.733E+10	9.897E+09	9.928E+09
4	9.629E+10	9.641E+10	4.745E+10	4.753E+10	2.129E+10	2.133E+10	1.209E+10	1.212E+10	5.471E+09	5.489E+09	3.132E+09	3.145E+09
6	1.904E+10	1.908E+10	9.383E+09	9.400E+09	4.210E+09	4.224E+09	2.390E+09	2.398E+09	1.082E+09	1.087E+09	6.194E+08	6.237E+08
8	6.033E+09	6.043E+09	2.973E+09	2.982E+09	1.334E+09	1.339E+09	7.573E+08	7.600E+08	3.428E+08	3.451E+08	1.963E+08	1.983E+08
10	2.470E+09	2.480E+09	1.220E+09	1.225E+09	5.744E+08	5.742E+08	3.108E+08	3.121E+08	1.407E+08	1.421E+08	8.053E+07	8.160E+07
15	4.921E+08	4.945E+08	2.425E+08	2.433E+08	1.088E+08	1.094E+08	6.178E+07	6.246E+07	2.796E+07	2.841E+07	1.601E+07	1.626E+07
20	1.571E+08	1.576E+08	7.742E+07	7.762E+07	3.474E+07	3.517E+07	1.972E+07	2.006E+07	8.926E+06	9.062E+06	5.111E+06	5.168E+06
30	3.183E+07	3.196E+07	1.569E+07	1.594E+07	7.038E+06	7.166E+06	3.996E+06	4.038E+06	1.809E+06	1.810E+06	1.036E+06	1.039E+06
45	6.660E+06	6.801E+06	3.282E+06	3.313E+06	1.473E+06	1.458E+06	8.361E+05	8.246E+05	3.784E+05	3.801E+05	2.167E+05	2.243E+05
60	2.285E+06	2.271E+06	1.126E+06	1.097E+06	5.053E+05	4.939E+05	2.869E+05	2.873E+05	1.299E+05	1.380E+05	7.435E+04	8.335E+04
75	1.040E+06	9.875E+05	5.126E+05	4.925E+05	2.300E+05	2.322E+05	1.306E+05	1.389E+05	5.910E+04	6.841E+04	3.384E+04	4.168E+04
90	5.714E+05	5.421E+05	2.816E+05	2.832E+05	1.263E+05	1.383E+05	7.173E+04	8.373E+04	3.246E+04	4.160E+04	1.859E+04	2.511E+04
120	2.539E+05	3.119E+05	1.251E+05	1.654E+05	5.615E+04	7.986E+04	3.188E+04	4.740E+04	1.443E+04	2.255E+04	8.261E+03	1.324E+04
150	1.641E+05	2.809E+05	8.087E+04	1.431E+05	3.628E+04	6.603E+04	2.060E+04	3.795E+04	9.323E+03	1.724E+04	5.338E+03	9.774E+03
179	1.429E+05	2.777E+05	7.041E+04	1.392E+05	3.159E+04	6.318E+04	1.793E+04	3.588E+04	8.117E+03	1.602E+04	4.648E+03	8.961E+03
DE0	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	5.217E+11	5.227E+11	2.751E+11	2.757E+11	1.412E+11	1.416E+11	6.733E+10	6.757E+10	4.031E+10	4.047E+10	1.992E+10	2.002E+10
2	3.264E+10	3.271E+10	1.720E+10	1.727E+10	8.829E+09	8.873E+09	4.209E+09	4.237E+09	2.520E+09	2.539E+09	1.245E+09	1.256E+09
3	6.444E+09	6.489E+09	3.398E+09	3.418E+09	1.744E+09	1.757E+09	8.316E+08	8.395E+08	4.978E+08	5.032E+08	2.460E+08	2.492E+08
4	2.040E+09	2.051E+09	1.076E+09	1.084E+09	5.521E+08	5.575E+08	2.632E+08	2.663E+08	1.576E+08	1.597E+08	7.786E+07	7.917E+07
6	4.033E+08	4.069E+08	2.127E+08	2.151E+08	1.092E+08	1.106E+08	5.205E+07	5.287E+07	3.116E+07	3.174E+07	1.539E+07	1.576E+07
8	1.270E+08	1.293E+08	6.739E+07	6.832E+07	3.459E+07	3.512E+07	1.649E+07	1.681E+07	9.872E+06	1.011E+07	4.878E+06	5.034E+06
10	5.244E+07	5.319E+07	2.765E+07	2.807E+07	1.420E+07	1.443E+07	6.767E+06	6.922E+06	4.051E+06	4.171E+06	2.002E+06	2.084E+06
15	1.042E+07	1.057E+07	5.497E+06	5.577E+06	2.822E+06	2.880E+06	1.345E+06	1.393E+06	8.053E+05	8.453E+05	3.979E+05	4.262E+05
20	3.328E+06	3.362E+06	1.755E+06	1.782E+06	9.008E+05	9.281E+05	4.294E+05	4.540E+05	2.571E+05	2.776E+05	1.270E+05	1.412E+05
30	6.743E+05	6.822E+05	3.556E+05	3.687E+05	1.825E+05	1.964E+05	8.702E+04	9.823E+04	5.209E+04	6.083E+04	2.574E+04	3.138E+04
45	1.411E+05	1.506E+05	7.440E+04	8.388E+04	3.819E+04	4.578E+04	1.821E+04	2.334E+04	1.090E+04	1.458E+04	5.385E+03	7.581E+03
60	4.841E+04	5.674E+04	2.553E+04	3.202E+04	1.311E+04	1.760E+04	6.248E+03	8.980E+03	3.740E+03	5.601E+03	1.848E+03	2.899E+03
75	2.203E+04	2.844E+04	1.162E+04	1.602E+04	5.964E+03	8.745E+03	2.843E+03	4.413E+03	1.702E+03	2.727E+03	8.410E+02	1.393E+03
90	1.210E+04	1.703E+04	6.383E+03	9.472E+03	3.276E+03	5.084E+03	1.562E+03	2.511E+03	9.350E+02	1.527E+03	4.620E+02	7.626E+02
120	5.379E+03	8.739E+03	2.837E+03	4.635E+03	1.456E+03	2.355E+03	6.942E+02	1.085E+03	4.156E+02	6.253E+02	2.053E+02	2.884E+02
150	3.476E+03	6.262E+03	1.833E+03	3.169E+03	9.439E+02	1.518E+03	4.486E+02	6.439E+02	2.685E+02	3.455E+02	1.327E+02	1.410E+02
179	3.026E+03	5.676E+03	1.596E+03	2.817E+03	8.192E+02	1.315E+03	3.905E+02	5.364E+02	2.338E+02	2.772E+02	1.155E+02	1.049E+02

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.222E+10	1.228E+10	8.406E+09	8.459E+09	4.807E+09	4.838E+09	2.660E+09	2.678E+09	1.346E+09	1.356E+09	8.221E+08	8.281E+08
2	7.637E+08	7.716E+08	5.255E+08	5.313E+08	3.005E+08	3.042E+08	1.663E+08	1.688E+08	8.413E+07	8.529E+07	5.139E+07	5.211E+07
3	1.509E+08	1.531E+08	1.038E+08	1.055E+08	5.937E+07	6.042E+07	3.285E+07	3.348E+07	1.662E+07	1.696E+07	1.015E+07	1.036E+07
4	4.776E+07	4.868E+07	3.286E+07	3.355E+07	1.879E+07	1.933E+07	1.040E+07	1.066E+07	5.261E+06	5.402E+06	3.214E+06	3.302E+06
6	9.444E+06	9.708E+06	6.498E+06	6.699E+06	3.716E+06	3.846E+06	2.056E+06	2.134E+06	1.040E+06	1.083E+06	6.354E+05	6.621E+05
8	2.992E+06	3.106E+06	2.059E+06	2.146E+06	1.177E+06	1.234E+06	6.514E+05	6.858E+05	3.296E+05	3.482E+05	2.013E+05	2.130E+05
10	1.228E+06	1.289E+06	8.448E+05	8.916E+05	4.831E+05	5.136E+05	2.673E+05	2.858E+05	1.353E+05	1.453E+05	8.242E+04	8.892E+04
15	2.441E+05	2.650E+05	1.679E+05	1.840E+05	9.604E+04	1.045E+05	5.314E+04	5.944E+04	2.689E+04	3.028E+04	1.642E+04	1.856E+04
20	7.792E+04	8.825E+04	5.361E+04	6.148E+04	3.066E+04	3.570E+04	1.696E+04	1.999E+04	8.584E+03	1.020E+04	5.243E+03	6.258E+03
30	1.579E+04	1.975E+04	1.086E+04	1.382E+04	6.213E+03	8.067E+03	3.437E+03	4.532E+03	1.739E+03	2.319E+03	1.062E+03	1.424E+03
45	3.304E+03	4.788E+03	2.273E+03	3.355E+03	1.300E+03	1.961E+03	7.192E+02	1.103E+03	3.639E+02	5.646E+02	2.223E+02	3.466E+02
60	1.134E+03	1.825E+03	7.800E+02	1.275E+03	4.460E+02	7.427E+02	2.468E+02	4.164E+02	1.249E+02	2.127E+02	7.628E+01	1.305E+02
75	5.159E+02	8.688E+02	3.550E+02	6.035E+02	2.030E+02	3.447E+02	1.232E+02	1.942E+02	5.683E+01	9.872E+01	3.471E+01	6.040E+01
90	2.834E+02	4.686E+02	1.950E+02	3.221E+02	1.115E+02	1.836E+02	6.170E+01	1.011E+02	3.122E+01	5.096E+01	1.907E+01	3.106E+01
120	1.260E+02	1.675E+02	8.666E+01	1.104E+02	4.956E+01	5.938E+01	2.742E+01	3.111E+01	1.388E+01	1.504E+01	8.475E+00	8.989E+00
150	8.139E+01	7.379E+01	5.600E+01	4.448E+01	3.202E+01	2.073E+01	1.772E+01	9.330E+00	8.966E+00	3.876E+00	5.476E+00	2.127E+00
179	7.086E+01	5.083E+01	4.876E+01	2.833E+01	2.788E+01	1.126E+01	1.543E+01	3.993E+00	7.806E+00	1.140E+00	4.768E+00	4.467E+00
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	4.033E+08	4.063E+08	2.402E+08	2.420E+08	1.596E+08	1.608E+08	8.521E+07	8.586E+07	4.331E+07	4.364E+07	1.984E+07	1.999E+07
2	2.521E+07	2.557E+07	1.501E+07	1.523E+07	9.973E+06	1.012E+07	5.326E+06	5.405E+06	2.708E+06	2.747E+06	1.240E+06	1.258E+06
3	4.981E+06	5.086E+06	2.966E+06	3.030E+06	1.971E+06	2.013E+06	1.052E+06	1.075E+06	5.350E+05	5.465E+05	2.456E+05	2.503E+05
4	1.576E+06	1.621E+06	9.389E+05	9.656E+05	6.237E+05	6.415E+05	3.331E+05	3.426E+05	1.693E+05	1.742E+05	7.756E+04	7.979E+04
6	3.117E+05	3.251E+05	1.857E+05	1.937E+05	1.233E+05	1.287E+05	6.587E+04	6.875E+04	3.344E+04	3.495E+04	1.534E+04	1.601E+04
8	9.877E+04	1.047E+05	5.882E+04	6.236E+04	3.908E+04	4.144E+04	2.087E+04	2.214E+04	1.061E+04	1.125E+04	4.859E+03	5.156E+03
10	4.053E+04	4.370E+04	2.414E+04	2.604E+04	1.604E+04	1.731E+04	8.564E+03	9.246E+03	4.353E+03	4.701E+03	1.994E+03	2.153E+03
15	8.057E+03	9.127E+03	4.799E+03	5.442E+03	3.188E+03	3.617E+03	1.702E+03	1.933E+03	8.654E+02	9.827E+02	3.964E+02	4.502E+02
20	2.572E+03	3.080E+03	1.532E+03	1.837E+03	1.018E+03	1.221E+03	5.435E+02	6.273E+02	2.763E+02	3.319E+02	1.265E+02	1.520E+02
30	5.212E+02	7.014E+02	3.104E+02	4.185E+02	2.062E+02	2.782E+02	1.101E+02	1.487E+02	5.598E+01	7.563E+01	2.564E+01	3.465E+01
45	1.090E+02	1.708E+02	6.494E+01	1.019E+02	4.314E+01	6.774E+01	2.304E+01	3.622E+01	1.171E+01	1.842E+01	5.364E+00	8.439E+00
60	3.742E+01	6.222E+01	2.229E+01	3.830E+01	1.480E+01	2.546E+01	7.906E+00	1.361E+01	4.019E+00	6.919E+00	1.841E+00	3.170E+00
75	1.703E+01	2.967E+01	1.014E+01	1.768E+01	6.737E+00	1.175E+01	3.598E+00	6.277E+00	1.829E+00	3.191E+00	8.377E+00	1.462E+00
90	9.355E+00	1.520E+01	5.571E+00	9.047E+00	3.701E+00	6.007E+00	1.977E+00	3.270E+00	1.005E+00	1.630E+00	4.602E+00	7.464E+00
120	4.158E+00	4.323E+00	2.476E+00	2.554E+00	1.645E+00	1.689E+00	8.785E+01	8.985E+01	4.465E+01	4.557E+01	2.045E+01	2.085E+01
150	2.687E+00	9.409E+00	1.600E+00	5.352E+01	1.063E+00	3.470E+01	5.677E+01	1.811E+01	2.885E+01	9.081E+02	1.322E+01	4.127E+02
179	2.339E+00	1.124E+01	1.393E+00	4.074E+02	9.254E+01	1.824E+02	4.942E+01	5.328E+03	2.512E+01	1.428E+03	1.151E+01	3.232E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.134E+07	1.142E+07	5.119E+06	5.158E+06	2.903E+06	2.925E+06	1.867E+06	1.881E+06	9.580E+05	9.654E+05	4.715E+05	4.751E+05
2	7.085E+05	7.190E+05	3.200E+05	3.247E+05	1.815E+05	1.841E+05	1.167E+05	1.184E+05	5.989E+04	6.077E+04	2.947E+04	2.991E+04
3	1.400E+05	1.430E+05	6.322E+04	6.459E+04	3.585E+04	3.663E+04	2.306E+04	2.356E+04	1.183E+04	1.209E+04	5.823E+03	5.948E+03
4	4.431E+04	4.559E+04	2.001E+04	2.059E+04	1.135E+04	1.148E+04	7.299E+03	7.509E+03	3.745E+03	3.853E+03	1.843E+03	1.896E+03
6	8.762E+03	9.147E+03	3.957E+03	4.131E+03	2.244E+03	2.343E+03	1.443E+03	1.507E+03	7.405E+02	7.732E+02	3.644E+02	3.805E+02
8	2.776E+03	2.946E+03	1.254E+03	1.330E+03	7.110E+02	7.544E+02	4.573E+02	4.852E+02	2.346E+02	2.490E+02	1.155E+02	1.225E+02
10	1.139E+03	1.230E+03	5.145E+02	5.557E+02	2.918E+02	3.161E+02	1.877E+02	2.027E+02	9.629E+01	1.040E+02	4.730E+01	5.118E+01
15	2.265E+02	2.572E+02	1.023E+02	1.162E+02	5.800E+01	6.588E+01	3.730E+01	4.237E+01	1.914E+01	2.174E+01	9.419E+00	1.070E+01
20	7.229E+01	8.688E+01	3.265E+01	3.924E+01	1.852E+01	2.225E+01	1.191E+01	1.431E+01	6.110E+00	7.344E+00	3.007E+00	3.614E+00
30	1.465E+01	1.980E+01	6.616E+00	8.943E+00	3.752E+00	5.072E+00	2.413E+00	3.262E+00	1.238E+00	1.674E+00	6.093E+00	8.237E+00
45	3.065E+00	4.822E+00	1.384E+00	2.178E+00	7.850E+01	1.235E+00	5.049E+01	7.943E+01	2.591E+01	4.076E+01	1.275E+01	2.006E+01
60	1.052E+00	1.811E+00	4.750E+01	8.180E+01	2.694E+01	4.639E+01	1.732E+01	2.984E+01	8.889E+02	1.531E+01	4.375E+02	7.534E+02
75	4.786E+01	8.353E+01	2.162E+01	3.772E+01	1.226E+01	2.139E+01	7.884E+02	1.376E+01	4.045E+02	7.060E+02	1.991E+02	3.474E+02
90	2.629E+01	4.264E+01	1.187E+01	1.926E+01	6.734E+02	1.092E+01	4.331E+02	7.024E+02	2.222E+02	3.604E+02	1.094E+02	1.774E+02
120	1.169E+01	1.190E+01	5.278E+02	5.374E+02	2.993E+02	3.047E+02	1.925E+02	1.960E+02	9.877E+03	1.006E+02	4.861E+03	4.949E+03
150	7.551E+02	2.352E+02	3.410E+02	1.060E+02	1.934E+02	6.006E+03	1.244E+02	3.861E+03	6.382E+03	1.981E+03	3.141E+03	9.746E+04
179	6.574E+02	1.160E+04	2.969E+02	2.965E+05	1.684E+02	1.222E+05	1.083E+02	6.475E+06	5.557E+03	2.699E+06	2.735E+03	1.164E+06

W (74)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.226E+15	1.227E+15	5.454E+14	5.457E+14	3.071E+14	3.073E+14	1.367E+14	1.368E+14	7.707E+13	7.712E+13	4.942E+13	4.945E+13
2	7.663E+13	7.668E+13	3.409E+13	3.411E+13	1.920E+13	1.921E+13	8.548E+12	8.554E+12	4.817E+12	4.821E+12	3.089E+12	3.092E+12
3	1.514E+13	1.515E+13	6.736E+12	6.741E+12	3.793E+12	3.795E+12	1.689E+12	1.690E+12	9.518E+11	9.527E+11	6.104E+11	6.109E+11
4	4.792E+12	4.796E+12	2.132E+12	2.133E+12	1.200E+12	1.201E+12	5.346E+11	5.350E+11	3.013E+11	3.015E+11	1.932E+11	1.934E+11
6	9.476E+11	9.483E+11	4.216E+11	4.219E+11	2.374E+11	2.376E+11	1.057E+11	1.058E+11	5.957E+10	5.965E+10	3.820E+10	3.824E+10
8	3.003E+11	3.005E+11	1.336E+11	1.337E+11	7.521E+10	7.525E+10	3.349E+10	3.354E+10	1.888E+10	1.890E+10	1.210E+10	1.213E+10
10	1.232E+11	1.233E+11	5.481E+10	5.486E+10	3.086E+10	3.089E+10	1.374E+10	1.376E+10	7.746E+09	7.758E+09	4.967E+09	4.978E+09
15	2.449E+10	2.451E+10	1.090E+10	1.090E+10	6.135E+09	6.145E+09	2.732E+09	2.738E+09	1.540E+09	1.543E+09	9.873E+08	9.888E+08
20	7.819E+09	7.827E+09	3.478E+09	3.485E+09	1.959E+09	1.961E+09	8.722E+08	8.736E+08	4.915E+08	4.925E+08	3.152E+08	3.168E+08
30	1.584E+09	1.586E+09	7.048E+08	7.072E+08	3.969E+08	3.969E+08	1.767E+08	1.777E+08	9.960E+07	1.000E+08	6.387E+07	6.387E+07
45	3.315E+08	3.314E+08	1.475E+08	1.481E+08	8.303E+07	8.357E+07	3.698E+07	3.681E+07	2.084E+07	2.089E+07	1.336E+07	1.354E+07
60	1.137E+08	1.151E+08	5.060E+07	5.020E+07	2.849E+07	2.856E+07	1.269E+07	1.292E+07	7.151E+06	7.337E+06	4.585E+06	4.674E+06
75	5.177E+07	5.072E+07	2.303E+07	2.337E+07	1.297E+07	1.341E+07	5.774E+06	5.889E+06	3.254E+06	3.233E+06	2.087E+06	2.020E+06
90	2.844E+07	2.977E+07	1.265E+07	1.304E+07	7.123E+06	7.060E+06	3.172E+06	2.970E+06	1.788E+06	1.639E+06	1.146E+06	1.051E+06
120	1.646E+07	1.078E+07	5.623E+06	4.950E+06	3.164E+06	2.922E+06	1.410E+06	1.418E+06	7.945E+05	8.548E+05	5.095E+05	5.778E+05
150	8.167E+06	1.080E+07	3.633E+06	3.123E+06	2.046E+06	3.012E+06	9.110E+05	1.421E+06	5.134E+05	8.318E+05	3.292E+05	5.483E+05
179	7.110E+06	1.204E+07	3.163E+06	5.547E+06	1.781E+06	3.200E+06	7.931E+05	1.473E+06	4.470E+05	8.490E+05	2.866E+05	5.533E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.531E+13	2.533E+13	1.247E+13	1.248E+13	5.596E+12	5.602E+12	3.177E+12	3.181E+12	1.438E+12	1.440E+12	8.234E+11	8.248E+11
2	1.582E+12	1.584E+12	7.797E+11	7.805E+11	3.498E+11	3.503E+11	1.986E+11	1.989E+11	8.990E+10	9.009E+10	5.147E+10	5.160E+10
3	3.126E+11	3.129E+11	1.541E+11	1.543E+11	6.912E+10	6.923E+10	3.924E+10	3.933E+10	1.776E+10	1.781E+10	1.017E+10	1.020E+10
4	9.895E+10	9.906E+10	4.876E+10	4.884E+10	2.188E+10	2.192E+10	1.242E+10	1.246E+10	5.622E+09	5.640E+09	3.219E+09	3.232E+09
6	1.956E+10	1.960E+10	9.642E+09	9.659E+09	4.326E+09	4.340E+09	2.456E+09	2.465E+09	1.112E+09	1.116E+09	6.365E+08	6.408E+08
8	6.199E+09	6.210E+09	3.035E+09	3.063E+09	1.371E+09	1.376E+09	7.782E+08	7.809E+08	3.522E+08	3.545E+08	2.017E+08	2.037E+08
10	2.544E+09	2.548E+09	1.254E+09	1.259E+09	5.625E+08	5.644E+08	3.193E+08	3.207E+08	1.445E+08	1.460E+08	8.275E+07	8.386E+07
15	5.057E+08	5.082E+08	2.492E+08	2.500E+08	1.118E+08	1.123E+08	6.348E+07	6.415E+07	2.873E+07	2.921E+07	1.645E+07	1.672E+07
20	1.614E+08	1.620E+08	7.956E+07	7.973E+07	3.569E+07	3.612E+07	2.027E+07	2.062E+07	9.172E+06	9.322E+06	5.252E+06	5.316E+06
30	3.271E+07	3.281E+07	1.612E+07	1.638E+07	7.232E+06	7.272E+06	4.106E+06	4.156E+06	1.859E+06	1.861E+06	1.064E+06	1.066E+06
45	6.844E+06	6.995E+06	3.373E+06	3.412E+06	1.513E+06	1.500E+06	8.592E+05	8.467E+05	3.889E+05	3.894E+05	2.226E+05	2.295E+05
60	2.349E+06	2.339E+06	1.157E+06	1.127E+06	5.193E+05	5.042E+05	2.948E+05	2.940E+05	1.334E+05	1.411E+05	7.640E+04	8.527E+04
75	1.069E+06	1.014E+06	5.267E+05	5.041E+05	2.363E+05	2.373E+05	1.342E+05	1.419E+05	6.073E+04	7.002E+04	3.477E+04	4.274E+04
90	5.871E+05	5.534E+05	2.893E+05	2.889E+05	1.298E+05	1.413E+05	7.370E+04	8.571E+04	3.536E+04	4.251E+04	1.910E+04	2.585E+04
120	2.609E+05	3.197E+05	1.286E+05	1.790E+05	5.770E+04	8.235E+04	3.276E+04	4.899E+04	1.483E+04	2.337E+04	8.489E+03	1.375E+04
150	1.686E+05	2.917E+05	8.310E+04	1.488E+05	3.728E+04	6.877E+04	2.117E+04	3.958E+04	9.580E+03	1.801E+04	5.485E+03	1.022E+04
179	1.468E+05	2.897E+05	7.235E+04	1.454E+05	3.246E+04	6.605E+04	1.843E+04	3.755E+04	8.341E+03	1.678E+04	4.776E+03	9.396E+03
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	5.361E+11	5.371E+11	2.827E+11	2.833E+11	1.451E+11	1.455E+11	6.919E+10	6.943E+10	4.142E+10	4.161E+10	2.047E+10	2.057E+10
2	3.351E+10	3.361E+10	1.767E+10	1.774E+10	9.072E+09	9.118E+09	4.325E+09	4.354E+09	2.589E+09	2.609E+09	1.279E+09	1.291E+09
3	6.622E+09	6.648E+09	3.492E+09	3.512E+09	1.793E+09	1.806E+09	8.545E+08	8.627E+08	5.116E+08	5.172E+08	2.528E+08	2.561E+08
4	2.096E+09	2.107E+09	1.105E+09	1.114E+09	5.674E+08	5.759E+08	2.705E+08	2.737E+08	1.619E+08	1.642E+08	8.000E+07	8.135E+07
6	4.144E+08	4.181E+08	2.186E+08	2.211E+08	1.122E+08	1.137E+08	5.348E+07	5.434E+07	3.202E+07	3.262E+07	1.582E+07	1.620E+07
8	1.313E+08	1.329E+08	6.925E+07	7.023E+07	3.555E+07	3.610E+07	1.695E+07	1.727E+07	1.014E+07	1.039E+07	5.012E+06	5.171E+06
10	5.388E+07	5.468E+07	2.842E+07	2.885E+07	1.459E+07	1.483E+07	6.954E+06	7.111E+06	4.163E+06	4.284E+06	2.057E+06	2.140E+06
15	1.071E+07	1.087E+07	5.649E+06	5.732E+06	2.900E+06	2.958E+06	1.382E+06	1.430E+06	8.275E+05	8.674E+05	4.089E+05	4.372E+05
20	3.419E+06	3.456E+06	1.803E+06	1.829E+06	9.257E+05	9.522E+05	4.413E+05	4.655E+05	2.642E+05	2.846E+05	1.305E+05	1.448E+05
30	6.929E+05	6.997E+05	3.654E+05	3.777E+05	1.876E+05	2.011E+05	8.942E+04	1.006E+05	5.353E+04	6.236E+04	2.645E+04	3.220E+04
45	1.450E+05	1.541E+05	7.645E+04	8.586E+04	3.924E+04	4.692E+04	1.871E+04	2.397E+04	1.120E+04	1.499E+04	5.534E+03	7.810E+03
60	4.975E+04	5.811E+04	2.623E+04	3.285E+04	1.347E+04	1.810E+04	6.420E+03	9.260E+03	3.843E+03	5.786E+03	1.899E+03	3.002E+03
75	2.264E+04	2.922E+04	1.194E+04	1.650E+04	6.128E+03	9.032E+03	2.922E+03	4.571E+03	1.743E+03	2.830E+03	8.642E+02	1.449E+03
90	1.244E+04	1.756E+04	6.559E+03	9.795E+03	3.367E+03	5.272E+03	1.605E+03	2.611E+03	9.608E+02	1.591E+03	4.747E+02	7.944E+02
120	5.527E+03	9.077E+03	2.915E+03	4.829E+03	1.496E+03	2.459E+03	7.133E+02	1.135E+03	4.270E+02	6.553E+02	2.110E+02	3.029E+02
150	3.572E+03	6.554E+03	1.884E+03	3.321E+03	9.669E+02	1.592E+03	4.609E+02	6.764E+02	2.759E+02	3.633E+02	1.363E+02	1.984E+02
179	3.110E+03	5.956E+03	1.640E+03	2.959E+03	8.418E+02	1.382E+03	4.013E+02	5.643E+02	2.402E+02	2.918E+02	1.187E+02	1.105E+02

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.255E+10	1.262E+10	8.638E+09	8.689E+09	4.940E+09	4.974E+09	2.733E+09	2.752E+09	1.383E+09	1.393E+09	8.447E+08	8.510E+08
2	7.848E+08	7.929E+08	5.400E+08	5.460E+08	3.088E+08	3.125E+08	1.708E+08	1.731E+08	8.645E+07	8.764E+07	5.288E+07	5.355E+07
3	1.551E+08	1.573E+08	1.067E+08	1.084E+08	6.101E+07	6.209E+07	3.375E+07	3.440E+07	1.708E+07	1.743E+07	1.043E+07	1.065E+07
4	4.908E+07	5.002E+07	3.377E+07	3.447E+07	1.931E+07	1.975E+07	1.068E+07	1.095E+07	5.407E+06	5.551E+06	3.302E+06	3.393E+06
6	9.704E+06	9.974E+06	6.677E+06	6.882E+06	3.818E+06	3.951E+06	2.113E+06	2.193E+06	1.069E+06	1.112E+06	6.530E+05	6.801E+05
8	3.075E+06	3.190E+06	2.116E+06	2.204E+06	1.210E+06	1.247E+06	6.694E+05	7.043E+05	3.387E+05	3.577E+05	2.069E+05	2.188E+05
10	1.262E+06	1.323E+06	8.682E+05	9.154E+05	4.965E+05	5.273E+05	2.747E+05	2.935E+05	1.390E+05	1.492E+05	8.490E+04	9.130E+04
15	2.508E+05	2.719E+05	1.726E+05	1.888E+05	9.869E+04	1.093E+05	5.460E+04	6.101E+04	2.763E+04	3.109E+04	1.689E+04	1.905E+04
20	8.007E+04	9.052E+04	5.509E+04	6.308E+04	3.151E+04	3.644E+04	1.743E+04	2.052E+04	8.821E+03	1.048E+04	5.388E+03	6.426E+03
30	1.622E+04	2.029E+04	1.116E+04	1.420E+04	6.384E+03	8.293E+03	3.532E+03	4.661E+03	1.787E+03	2.386E+03	1.092E+03	1.465E+03
45	3.395E+03	4.937E+03	2.336E+03	3.463E+03	1.336E+03	2.026E+03	7.390E+02	1.140E+03	3.740E+02	5.839E+02	2.284E+02	3.585E+02
60	1.165E+03	1.891E+03	8.015E+02	1.323E+03	4.583E+02	7.714E+02	2.536E+02	4.328E+02	1.283E+02	2.212E+02	7.838E+01	1.357E+02
75	5.301E+02	9.050E+02	3.647E+02	6.292E+02	2.086E+02	3.639E+02	1.154E+02	2.029E+02	5.840E+01	1.032E+02	3.567E+01	6.315E+01
90	2.912E+02	4.901E+02	2.004E+02	3.372E+02	1.146E+02	1.974E+02	6.340E+01	1.061E+02	3.208E+01	5.388E+01	1.960E+01	3.261E+01
120	1.294E+02	1.761E+02	8.905E+01	1.161E+02	5.093E+01	6.256E+01	2.818E+01	3.281E+01	1.426E+01	1.584E+01	8.709E+00	9.294E+00
150	8.364E+01	7.773E+01	5.754E+01	4.689E+01	3.291E+01	2.187E+01	1.821E+01	9.856E+00	9.213E+00	4.099E+00	5.627E+00	2.252E+00
179	7.282E+01	5.355E+01	5.010E+01	2.985E+01	2.865E+01	1.187E+01	1.585E+01	4.208E+00	8.022E+00	1.201E+00	4.900E+00	4.708E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	4.144E+08	4.175E+08	2.468E+08	2.487E+08	1.640E+08	1.652E+08	8.756E+07	8.823E+07	4.451E+07	4.485E+07	2.039E+07	2.054E+07
2	2.590E+07	2.628E+07	1.543E+07	1.565E+07	1.025E+07	1.040E+07	5.473E+06	5.554E+06	2.782E+06	2.823E+06	1.274E+06	1.293E+06
3	5.118E+06	5.226E+06	3.048E+06	3.113E+06	2.025E+06	2.048E+06	1.081E+06	1.105E+06	5.497E+05	5.616E+05	2.518E+05	2.572E+05
4	1.620E+06	1.665E+06	9.648E+05	9.921E+05	6.409E+05	6.591E+05	3.423E+05	3.521E+05	1.740E+05	1.790E+05	7.969E+04	8.198E+04
6	3.203E+05	3.340E+05	1.908E+05	1.990E+05	1.267E+05	1.322E+05	6.768E+04	7.063E+04	3.440E+04	3.590E+04	1.576E+04	1.645E+04
8	1.015E+05	1.075E+05	6.045E+04	6.405E+04	4.016E+04	4.256E+04	2.145E+04	2.274E+04	1.090E+04	1.156E+04	4.993E+03	5.295E+03
10	4.165E+04	4.487E+04	2.480E+04	2.674E+04	1.648E+04	1.777E+04	8.800E+03	9.495E+03	4.473E+03	4.827E+03	2.049E+03	2.211E+03
15	8.279E+03	9.370E+03	4.931E+03	5.587E+03	3.276E+03	3.713E+03	1.749E+03	1.984E+03	8.652E+02	1.009E+03	4.073E+02	4.622E+02
20	2.643E+03	3.163E+03	1.574E+03	1.887E+03	1.046E+03	1.244E+03	5.585E+02	6.703E+02	2.839E+02	3.409E+02	1.300E+02	1.562E+02
30	5.355E+02	7.219E+02	3.190E+02	4.307E+02	2.119E+02	2.844E+02	1.132E+02	1.531E+02	5.752E+01	7.785E+01	2.635E+01	3.567E+01
45	1.121E+02	1.767E+02	6.674E+01	1.056E+02	4.433E+01	7.011E+01	2.368E+01	3.747E+01	1.204E+01	1.906E+01	5.512E+00	8.732E+00
60	3.845E+01	6.681E+01	2.290E+01	3.985E+01	1.521E+01	2.649E+01	8.125E+00	1.416E+01	4.130E+00	7.200E+00	1.892E+00	3.298E+00
75	1.750E+01	3.103E+01	1.042E+01	1.849E+01	6.923E+00	1.259E+01	3.697E+00	6.565E+00	1.879E+00	3.338E+00	8.608E+00	1.529E+00
90	9.613E+00	1.597E+01	5.725E+00	9.502E+00	3.803E+00	6.310E+00	2.031E+00	3.368E+00	1.032E+00	1.712E+00	4.729E+01	7.840E+01
120	4.272E+00	4.567E+00	2.544E+00	2.698E+00	1.690E+00	1.785E+00	9.027E+01	9.496E+01	4.589E+01	4.816E+01	2.102E+01	2.203E+01
150	2.761E+00	9.968E+01	1.644E+00	5.672E+01	1.092E+00	3.678E+01	5.833E+01	1.920E+01	2.965E+01	9.629E+02	1.358E+01	4.377E+02
179	2.404E+00	1.185E+01	1.431E+00	4.295E+02	9.509E+01	1.923E+02	5.079E+01	5.618E+03	2.582E+01	1.506E+03	1.182E+01	3.410E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.165E+07	1.174E+07	5.260E+06	5.301E+06	2.983E+06	3.006E+06	1.919E+06	1.933E+06	9.845E+05	9.920E+05	4.845E+05	4.882E+05
2	7.281E+05	7.388E+05	3.288E+05	3.337E+05	1.865E+05	1.892E+05	1.199E+05	1.217E+05	6.154E+04	6.245E+04	3.028E+04	3.073E+04
3	1.439E+05	1.470E+05	6.497E+04	6.637E+04	3.684E+04	3.744E+04	2.370E+04	2.421E+04	1.216E+04	1.242E+04	5.984E+03	6.112E+03
4	4.553E+04	4.684E+04	2.856E+04	2.115E+04	1.166E+04	1.200E+04	7.500E+03	7.715E+03	3.849E+03	3.959E+03	1.894E+03	1.948E+03
6	9.003E+03	9.397E+03	4.066E+03	4.244E+03	2.306E+03	2.407E+03	1.483E+03	1.546E+03	7.610E+02	7.942E+02	3.745E+02	3.909E+02
8	2.853E+03	3.025E+03	1.288E+03	1.366E+03	7.306E+02	7.748E+02	4.699E+02	4.984E+02	2.411E+02	2.557E+02	1.187E+02	1.258E+02
10	1.171E+03	1.263E+03	5.287E+02	5.706E+02	2.998E+02	3.236E+02	1.928E+02	2.081E+02	9.894E+01	1.068E+02	4.869E+01	5.256E+01
15	2.327E+02	2.641E+02	1.051E+02	1.193E+02	5.960E+01	6.744E+01	3.833E+01	4.350E+01	1.967E+01	2.232E+01	9.679E+00	1.099E+01
20	7.429E+01	8.923E+01	3.355E+01	4.030E+01	1.903E+01	2.285E+01	1.224E+01	1.470E+01	6.279E+00	7.542E+00	3.090E+00	3.712E+00
30	1.509E+01	2.038E+01	6.798E+00	9.205E+00	3.855E+00	5.220E+00	2.80E+00	3.358E+00	1.272E+00	1.723E+00	6.261E+01	8.478E+01
45	3.159E+00	4.989E+00	1.422E+00	2.253E+00	8.065E+00	1.278E+00	5.188E+01	8.220E+01	2.662E+01	4.218E+01	1.310E+01	2.076E+01
60	1.081E+00	1.885E+00	4.881E+01	8.512E+01	2.768E+01	4.857E+01	1.780E+01	3.105E+01	9.135E+02	1.593E+01	4.495E+02	7.840E+02
75	4.918E+01	8.736E+01	2.221E+01	3.945E+01	1.260E+01	2.237E+01	8.102E+02	1.439E+01	4.157E+02	7.384E+02	2.046E+02	3.634E+02
90	2.702E+01	4.479E+01	1.220E+01	2.023E+01	6.920E+02	1.147E+01	4.451E+02	7.378E+02	2.284E+02	3.766E+02	1.124E+02	1.893E+02
120	1.201E+01	1.258E+01	5.423E+02	5.680E+02	3.075E+02	3.221E+02	1.978E+02	2.071E+02	1.015E+02	1.063E+02	4.995E+03	5.230E+03
150	7.759E+02	2.494E+02	3.504E+02	1.124E+02	1.987E+02	6.369E+02	1.278E+02	4.095E+03	6.558E+03	2.101E+03	3.227E+03	1.034E+03
179	6.756E+02	1.224E+04	3.051E+02	3.134E+05	1.730E+02	1.262E+05	1.113E+02	6.855E+06	5.710E+03	2.861E+06	2.810E+03	1.235E+06

	RUTH		MOTT		RUTH		MOTT		RUTH		MOTT		RUTH		MOTT		RUTH		MOTT		RUTH		MOTT	
DEG	1.0E-03MEV				1.5E-03MEV				2.0E-03MEV				3.0E-03MEV				4.0E-03MEV				5.0E-03MEV			
1	1.259E+15	1.260E+15	5.602E+14	5.606E+14	3.154E+14	3.156E+14	1.405E+14	1.405E+14	7.916E+13	7.922E+13	5.076E+13	5.080E+13	1.405E+14	1.405E+14	7.916E+13	7.922E+13	5.076E+13	5.080E+13	1.405E+14	1.405E+14	7.916E+13	7.922E+13	5.076E+13	5.080E+13
2	7.872E+13	7.876E+13	3.502E+13	3.504E+13	1.972E+13	1.973E+13	8.780E+12	8.787E+12	4.949E+12	4.952E+12	3.173E+12	3.176E+12	8.780E+12	8.787E+12	4.949E+12	4.952E+12	3.173E+12	3.176E+12	8.780E+12	8.787E+12	4.949E+12	4.952E+12	3.173E+12	3.176E+12
3	1.555E+13	1.556E+13	6.919E+12	6.924E+12	3.896E+12	3.899E+12	1.735E+12	1.736E+12	9.777E+11	9.786E+11	6.270E+11	6.275E+11	1.735E+12	1.736E+12	9.777E+11	9.786E+11	6.270E+11	6.275E+11	1.735E+12	1.736E+12	9.777E+11	9.786E+11	6.270E+11	6.275E+11
4	4.923E+12	4.926E+12	2.190E+12	2.192E+12	1.233E+12	1.234E+12	5.491E+11	5.496E+11	1.086E+11	1.087E+11	1.984E+11	1.987E+11	5.491E+11	5.496E+11	1.086E+11	1.087E+11	1.984E+11	1.987E+11	5.491E+11	5.496E+11	1.086E+11	1.087E+11	1.984E+11	1.987E+11
6	9.734E+11	9.741E+11	4.330E+11	4.334E+11	2.438E+11	2.440E+11	1.086E+11	1.087E+11	3.440E+10	3.445E+10	6.119E+10	6.127E+10	1.086E+11	1.087E+11	3.440E+10	3.445E+10	6.119E+10	6.127E+10	1.086E+11	1.087E+11	3.440E+10	3.445E+10	6.119E+10	6.127E+10
8	3.084E+11	3.086E+11	1.372E+11	1.373E+11	7.726E+10	7.734E+10	3.440E+10	3.445E+10	1.412E+10	1.414E+10	1.939E+10	1.941E+10	3.440E+10	3.445E+10	1.412E+10	1.414E+10	1.939E+10	1.941E+10	3.440E+10	3.445E+10	1.412E+10	1.414E+10	1.939E+10	1.941E+10
10	1.266E+11	1.267E+11	5.630E+10	5.635E+10	3.170E+10	3.174E+10	1.412E+10	1.414E+10	2.806E+09	2.812E+09	7.956E+09	7.964E+09	1.412E+10	1.414E+10	2.806E+09	2.812E+09	7.956E+09	7.964E+09	1.412E+10	1.414E+10	2.806E+09	2.812E+09	7.956E+09	7.964E+09
15	2.516E+10	2.518E+10	1.119E+10	1.120E+10	6.302E+09	6.313E+09	2.806E+09	2.812E+09	1.582E+09	1.585E+09	5.049E+08	5.057E+08	2.806E+09	2.812E+09	1.582E+09	1.585E+09	5.049E+08	5.057E+08	2.806E+09	2.812E+09	1.582E+09	1.585E+09	5.049E+08	5.057E+08
20	8.032E+09	8.042E+09	3.573E+09	3.580E+09	2.012E+09	2.014E+09	1.582E+09	1.585E+09	8.959E+08	8.977E+08	1.815E+08	1.825E+08	1.582E+09	1.585E+09	8.959E+08	8.977E+08	1.815E+08	1.825E+08	1.582E+09	1.585E+09	8.959E+08	8.977E+08	1.815E+08	1.825E+08
30	1.627E+09	1.629E+09	7.240E+08	7.264E+08	4.077E+08	4.078E+08	8.959E+08	8.977E+08	1.815E+08	1.825E+08	3.798E+07	3.782E+07	4.077E+08	4.078E+08	1.815E+08	1.825E+08	3.798E+07	3.782E+07	4.077E+08	4.078E+08	1.815E+08	1.825E+08	3.798E+07	3.782E+07
45	3.405E+08	3.407E+08	1.515E+08	1.520E+08	8.529E+07	8.592E+07	1.815E+08	1.825E+08	3.798E+07	3.782E+07	1.303E+07	1.325E+07	1.515E+08	1.520E+08	8.529E+07	8.592E+07	1.303E+07	1.325E+07	1.515E+08	1.520E+08	8.529E+07	8.592E+07	1.303E+07	1.325E+07
60	1.168E+08	1.182E+08	5.198E+07	5.163E+07	2.927E+07	2.899E+07	1.303E+07	1.325E+07	5.931E+06	6.072E+06	3.258E+06	3.058E+06	5.198E+07	5.163E+07	2.927E+07	2.899E+07	5.931E+06	6.072E+06	3.258E+06	3.058E+06	5.931E+06	6.072E+06	3.258E+06	3.058E+06
75	5.317E+07	5.202E+07	2.366E+07	2.393E+07	1.332E+07	1.378E+07	5.931E+06	6.072E+06	3.258E+06	3.058E+06	1.448E+06	1.444E+06	2.366E+07	2.393E+07	1.332E+07	1.378E+07	3.258E+06	3.058E+06	1.448E+06	1.444E+06	3.258E+06	3.058E+06	1.448E+06	1.444E+06
90	2.921E+07	3.057E+07	1.300E+07	1.346E+07	7.317E+06	7.292E+06	3.258E+06	3.058E+06	1.448E+06	1.444E+06	9.348E+05	1.469E+06	1.300E+07	1.346E+07	7.317E+06	7.292E+06	3.258E+06	3.058E+06	1.448E+06	1.444E+06	9.348E+05	1.469E+06	1.300E+07	1.346E+07
120	1.298E+07	1.102E+07	5.776E+06	5.038E+06	3.252E+06	2.971E+06	1.448E+06	1.444E+06	9.348E+05	1.469E+06	8.162E+05	8.717E+05	5.776E+06	5.038E+06	3.252E+06	2.971E+06	1.448E+06	1.444E+06	9.348E+05	1.469E+06	8.162E+05	8.717E+05	5.776E+06	5.038E+06
150	8.389E+06	1.111E+07	3.732E+06	5.279E+06	2.101E+06	3.10E+06	9.348E+05	1.469E+06	8.162E+05	8.717E+05	5.274E+05	5.611E+05	3.732E+06	5.279E+06	2.101E+06	3.10E+06	9.348E+05	1.469E+06	8.162E+05	8.717E+05	5.274E+05	5.611E+05	3.732E+06	5.279E+06
179	7.304E+06	1.250E+07	3.249E+06	5.762E+06	1.830E+06	3.376E+06	8.162E+05	8.717E+05	5.274E+05	5.611E+05	4.592E+05	4.840E+05	7.304E+06	1.250E+07	3.249E+06	5.762E+06	1.830E+06	3.376E+06	8.162E+05	8.717E+05	5.274E+05	5.611E+05	7.304E+06	1.250E+07
DEG	7.0E-03MEV				1.0E-02MEV				1.5E-02MEV				2.0E-02MEV				3.0E-02MEV				4.0E-02MEV			
1	2.600E+13	2.602E+13	1.281E+13	1.282E+13	5.749E+12	5.744E+12	3.264E+12	3.267E+12	1.477E+12	1.479E+12	8.458E+11	8.472E+11	2.600E+13	2.602E+13	1.281E+13	1.282E+13	5.749E+12	5.744E+12	3.264E+12	3.267E+12	1.477E+12	1.479E+12	8.458E+11	8.472E+11
2	1.625E+12	1.627E+12	8.009E+11	8.018E+11	3.593E+11	3.598E+11	2.040E+11	2.043E+11	9.234E+10	9.254E+10	5.287E+10	5.301E+10	1.625E+12	1.627E+12	8.009E+11	8.018E+11	3.593E+11	3.598E+11	2.040E+11	2.043E+11	9.234E+10	9.254E+10	5.287E+10	5.301E+10
3	3.211E+11	3.215E+11	1.582E+11	1.585E+11	7.100E+10	7.111E+10	4.031E+10	4.040E+10	1.825E+10	1.830E+10	1.045E+10	1.048E+10	3.211E+11	3.215E+11	1.582E+11	1.585E+11	7.100E+10	7.111E+10	4.031E+10	4.040E+10	1.825E+10	1.830E+10	1.045E+10	1.048E+10
4	1.016E+11	1.018E+11	5.009E+10	5.017E+10	2.247E+10	2.252E+10	1.276E+10	1.280E+10	5.775E+09	5.794E+09	3.306E+09	3.320E+09	1.016E+11	1.018E+11	5.009E+10	5.017E+10	2.247E+10	2.252E+10	1.276E+10	1.280E+10	5.775E+09	5.794E+09	3.306E+09	3.320E+09
6	2.010E+10	2.014E+10	9.904E+09	9.921E+09	4.444E+09	4.459E+09	2.523E+09	2.532E+09	1.142E+09	1.147E+09	6.538E+08	6.581E+08	2.010E+10	2.014E+10	9.904E+09	9.921E+09	4.444E+09	4.459E+09	2.523E+09	2.532E+09	1.142E+09	1.147E+09	6.538E+08	6.581E+08
8	6.368E+09	6.380E+09	3.138E+09	3.146E+09	1.408E+09	1.414E+09	7.994E+08	8.022E+08	3.618E+08	3.641E+08	2.072E+08	2.092E+08	6.368E+09	6.380E+09	3.138E+09	3.146E+09	1.408E+09	1.414E+09	7.994E+08	8.022E+08	3.618E+08	3.641E+08	2.072E+08	2.092E+08
10	2.613E+09	2.617E+09	1.288E+09	1.293E+09	5.770E+08	5.799E+08	3.280E+08	3.293E+08	1.485E+08	1.499E+08	8.501E+07	8.615E+07	2.613E+09	2.617E+09	1.288E+09	1.293E+09	5.770E+08	5.799E+08	3.280E+08	3.293E+08	1.485E+08	1.499E+08	8.501E+07	8.615E+07
15	5.194E+08	5.220E+08	2.560E+08	2.569E+08	1.149E+08	1.153E+08	6.582E+07	6.587E+07	2.951E+07	3.001E+07	1.690E+07	1.719E+07	5.194E+08	5.220E+08	2.560E+08	2.569E+08	1.149E+08	1.153E+08	6.582E+07	6.587E+07	2.951E+07	3.001E+07	1.690E+07	1.719E+07
20	1.658E+08	1.665E+08	8.172E+07	8.188E+07	3.666E+07	3.708E+07	2.082E+07	2.119E+07	9.422E+06	9.586E+06	5.395E+06	5.465E+06	1.658E+08	1.665E+08	8.172E+07	8.188E+07	3.666E+07	3.708E+07	2.082E+07	2.119E+07	9.422E+06	9.586E+06	5.395E+06	5.465E+06
30	3.368E+07	3.368E+07	1.656E+07	1.681E+07	7.429E+06	7.582E+06	4.218E+06	4.276E+06	1.909E+06	1.913E+06	1.043E+06	1.045E+06	3.368E+07	3.368E+07	1.656E+07	1.681E+07	7.429E+06	7.582E+06	4.218E+06	4.276E+06	1.909E+06	1.913E+06	1.043E+06	1.045E+06
45	7.030E+06	7.190E+06	3.465E+06	3.512E+06	1.554E+06	1.543E+06	8.825E+05	8.893E+05	3.994E+05	3.988E+05	2.287E+05	2.348E+05	7.030E+06	7.190E+06	3.465E+06	3.512E+06	1.554E+06	1.543E+06	8.825E+05	8.893E+05	3.994E+05	3.988E+05	2.287E+05	2.348E+05
60	2.412E+06	2.410E+06	1.189E+06	1.157E+06	5.334E+05	5.186E+05	3.028E+05	3.007E+05	1.371E+05	1.442E+05	7.848E+04	8.719E+04	2.412E+06	2.410E+06	1.189E+06	1.157E+06	5.334E+05	5.186E+05	3.028E+05	3.007E+05	1.371E+05	1.442E+05	7.848E+04	8.719E+04
75	1.098E+06	1.041E+06	5.410E+05	5.150E+05	2.427E+05	2.423E+05	1.378E+05	1.449E+05	6.238E+04	7.163E+04	3.571E+04	4.380E+04	1.098E+06	1.041E+06	5.410E+05	5.150E+05	2.427E+05	2.423E+05	1.378E+05	1.449E+05	6.238E+04	7.163E+04	3.571E+04	4.380E+04
90	6.031E+05	5.648E+05	2.972E+05	2.947E+05	1.333E+05	1.443E+05	7.571E+04	8.767E+04	3.427E+04	4.363E+04	1.962E+04	2.659E+04	6.031E+05	5.648E+05	2.972E+05	2.947E+05	1.333E+05	1.443E+05	7.571E+04	8.767E+04	3.427E+04	4.363E+04	1.962E+04	2.659E+04
120	2.688																							

RE (75)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.290E+10	1.297E+10	8.873E+09	8.926E+09	5.074E+09	5.109E+09	2.807E+09	2.827E+09	1.421E+09	1.431E+09	8.677E+08	8.741E+08
2	8.061E+08	8.145E+08	5.546E+08	5.609E+08	3.172E+08	3.211E+08	1.755E+08	1.778E+08	8.880E+07	9.002E+07	5.424E+07	5.500E+07
3	1.593E+08	1.616E+08	1.096E+08	1.113E+08	6.267E+07	6.378E+07	3.467E+07	3.533E+07	1.755E+07	1.790E+07	1.072E+07	1.094E+07
4	5.041E+07	5.138E+07	3.469E+07	3.541E+07	1.984E+07	2.029E+07	1.097E+07	1.125E+07	5.554E+06	5.701E+06	3.392E+06	3.485E+06
6	9.968E+06	1.024E+07	6.859E+06	7.068E+06	3.922E+06	4.067E+06	2.170E+06	2.252E+06	1.098E+06	1.142E+06	6.707E+05	6.984E+05
8	3.159E+06	3.275E+06	2.173E+06	2.263E+06	1.243E+06	1.301E+06	6.876E+05	7.231E+05	3.480E+05	3.672E+05	2.125E+05	2.246E+05
10	1.296E+06	1.358E+06	8.918E+05	9.395E+05	5.100E+05	5.412E+05	2.822E+05	3.012E+05	1.428E+05	1.531E+05	8.721E+04	9.371E+04
15	2.577E+05	2.788E+05	1.773E+05	1.937E+05	1.014E+05	1.121E+05	5.609E+04	6.259E+04	2.838E+04	3.190E+04	1.734E+04	1.955E+04
20	8.225E+04	9.282E+04	5.659E+04	6.469E+04	3.236E+04	3.769E+04	1.791E+04	2.106E+04	9.961E+03	1.075E+04	5.534E+03	6.596E+03
30	1.667E+04	2.082E+04	1.147E+04	1.458E+04	6.558E+03	8.590E+03	3.628E+03	4.791E+03	1.836E+03	2.454E+03	1.121E+03	1.507E+03
45	3.487E+03	5.088E+03	2.399E+03	3.572E+03	1.372E+03	2.091E+03	7.591E+02	1.177E+03	3.841E+02	6.034E+02	2.346E+02	3.707E+02
60	1.197E+03	1.960E+03	8.233E+02	1.372E+03	4.708E+02	8.007E+02	2.605E+02	4.496E+02	1.318E+02	2.299E+02	8.051E+01	1.411E+02
75	5.445E+02	9.422E+02	3.747E+02	6.557E+02	2.143E+02	3.796E+02	1.185E+02	2.118E+02	5.999E+01	1.078E+02	3.664E+01	6.599E+01
90	2.991E+02	5.124E+02	2.058E+02	3.528E+02	1.177E+02	2.016E+02	6.512E+01	1.112E+02	3.295E+01	5.612E+01	2.013E+01	3.422E+01
120	1.330E+02	1.851E+02	9.148E+01	1.222E+02	5.231E+01	6.540E+01	2.894E+01	3.460E+01	1.465E+01	1.676E+01	8.946E+00	1.002E+01
150	8.591E+01	8.188E+01	5.911E+01	4.942E+01	3.380E+01	2.368E+01	1.870E+01	1.041E+01	9.464E+00	4.336E+00	5.781E+00	2.384E+00
179	7.480E+01	5.642E+01	5.146E+01	3.146E+01	2.943E+01	1.251E+01	1.628E+01	4.436E+00	8.240E+00	1.266E+00	5.033E+00	4.963E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	4.257E+08	4.289E+08	2.535E+08	2.554E+08	1.684E+08	1.697E+08	8.994E+07	9.063E+07	4.572E+07	4.607E+07	2.094E+07	2.110E+07
2	2.661E+07	2.699E+07	1.585E+07	1.607E+07	1.053E+07	1.048E+07	5.622E+06	5.704E+06	2.858E+06	2.899E+06	1.309E+06	1.328E+06
3	5.257E+06	5.388E+06	3.131E+06	3.198E+06	2.080E+06	2.125E+06	1.111E+06	1.135E+06	5.647E+05	5.768E+05	2.586E+05	2.642E+05
4	1.664E+06	1.710E+06	9.911E+05	1.019E+06	6.584E+05	6.770E+05	3.516E+05	3.616E+05	1.787E+05	1.838E+05	8.186E+04	8.420E+04
6	3.290E+05	3.430E+05	1.960E+05	2.043E+05	1.302E+05	1.358E+05	6.952E+04	7.252E+04	3.534E+04	3.687E+04	1.619E+04	1.689E+04
8	1.043E+05	1.103E+05	6.209E+04	6.576E+04	4.125E+04	4.369E+04	2.203E+04	2.334E+04	1.120E+04	1.187E+04	5.129E+03	5.436E+03
10	4.278E+04	4.605E+04	2.548E+04	2.745E+04	1.693E+04	1.854E+04	9.040E+03	9.746E+03	4.595E+03	4.955E+03	2.105E+03	2.270E+03
15	8.504E+03	9.815E+03	5.065E+03	5.733E+03	3.365E+03	3.811E+03	1.797E+03	2.036E+03	9.134E+02	1.035E+03	4.184E+02	4.743E+02
20	2.715E+03	3.247E+03	1.617E+03	1.937E+03	1.074E+03	1.267E+03	5.737E+02	6.881E+02	2.916E+02	3.499E+02	1.336E+02	1.603E+02
30	5.501E+02	7.425E+02	3.276E+02	4.430E+02	2.176E+02	2.946E+02	1.162E+02	1.575E+02	5.909E+01	8.008E+01	2.706E+01	3.669E+01
45	1.151E+02	1.827E+02	6.855E+01	1.090E+02	4.554E+01	7.260E+01	2.432E+01	3.875E+01	1.236E+01	1.971E+01	5.662E+00	9.030E+00
60	3.950E+01	6.948E+01	2.352E+01	4.144E+01	1.563E+01	2.755E+01	8.346E+00	1.473E+01	4.242E+00	7.489E+00	1.943E+00	3.431E+00
75	1.797E+01	3.244E+01	1.071E+01	1.933E+01	7.111E+00	1.285E+01	3.798E+00	6.864E+00	1.931E+00	3.490E+00	8.843E-01	1.599E+00
90	9.874E+00	1.676E+01	5.881E+00	9.976E+00	3.907E+00	6.695E+00	2.086E+00	3.337E+00	1.061E+00	1.798E+00	4.858E-01	8.233E-01
120	4.389E+00	4.824E+00	2.614E+00	2.851E+00	1.736E+00	1.886E+00	9.273E-01	1.003E+00	4.714E-01	5.089E-01	2.159E-01	2.328E-01
150	2.836E+00	1.056E+00	1.689E+00	6.010E-01	1.122E+00	3.899E-01	5.992E-01	2.035E-01	3.046E-01	1.021E-01	1.395E-01	4.641E-02
179	2.469E+00	1.249E-01	1.470E+00	4.528E-02	9.768E-01	2.028E-02	5.217E-01	5.923E-03	2.652E-01	1.588E-03	1.215E-01	3.598E-04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.196E+07	1.206E+07	5.403E+06	5.445E+06	3.064E+06	3.088E+06	1.971E+06	1.986E+06	1.011E+06	1.019E+06	4.977E+05	5.015E+05
2	7.479E+05	7.588E+05	3.378E+05	3.427E+05	1.915E+05	1.943E+05	1.232E+05	1.250E+05	6.321E+04	6.413E+04	3.111E+04	3.156E+04
3	1.478E+05	1.510E+05	6.674E+04	6.818E+04	3.785E+04	3.846E+04	2.434E+04	2.487E+04	1.249E+04	1.276E+04	6.146E+03	6.279E+03
4	4.677E+04	4.811E+04	2.112E+04	2.173E+04	1.198E+04	1.232E+04	7.704E+03	7.924E+03	3.953E+03	4.066E+03	1.945E+03	2.001E+03
6	9.248E+03	9.649E+03	4.177E+03	4.358E+03	2.369E+03	2.471E+03	1.523E+03	1.589E+03	7.817E+02	8.156E+02	3.847E+02	4.014E+02
8	2.930E+03	3.108E+03	1.323E+03	1.403E+03	7.505E+02	7.965E+02	4.827E+02	5.116E+02	2.477E+02	2.695E+02	1.219E+02	1.292E+02
10	1.202E+03	1.297E+03	5.431E+02	5.857E+02	3.080E+02	3.322E+02	1.981E+02	2.136E+02	1.016E+02	1.096E+02	5.002E+01	5.394E+01
15	2.390E+02	2.710E+02	1.080E+02	1.224E+02	6.122E+01	6.941E+01	3.938E+01	4.464E+01	2.020E+01	2.291E+01	9.943E+00	1.127E+01
20	7.631E+01	9.159E+01	3.446E+01	4.137E+01	1.954E+01	2.346E+01	1.257E+01	1.509E+01	6.450E+00	7.742E+00	3.174E+00	3.810E+00
30	1.546E+01	2.097E+01	6.983E+00	9.469E+00	3.960E+00	5.370E+00	2.547E+00	3.454E+00	1.307E+00	1.772E+00	6.431E-01	8.721E-01
45	3.235E+00	5.160E+00	1.461E+00	2.330E+00	8.286E+01	1.352E+00	5.329E+01	8.500E+01	2.734E+00	4.362E+00	1.346E-01	2.146E-01
60	1.110E+00	1.960E+00	5.014E-01	8.854E-01	2.843E+01	5.021E-01	1.829E+01	3.229E+01	9.383E-02	1.657E-01	4.618E-02	8.155E-02
75	5.052E-01	9.134E-01	2.282E-01	4.125E-01	1.294E-01	2.349E-01	8.322E-02	1.505E-01	4.270E-02	7.721E-02	2.101E-02	3.799E-02
90	2.775E-01	4.704E-01	1.253E-01	2.124E-01	7.108E-02	1.205E-01	4.572E-02	7.747E-02	2.348E-02	3.975E-02	1.154E-02	1.956E-02
120	1.234E-01	1.330E-01	5.571E-02	6.002E-02	3.159E-02	3.404E-02	2.032E-02	1.289E-02	1.043E-02	1.123E-02	5.131E-03	5.527E-03
150	7.971E-02	2.644E-02	3.600E-02	1.192E-02	2.041E-02	6.764E-03	1.313E-02	4.343E-03	6.737E-03	2.228E-03	3.315E-03	1.096E-03
179	6.940E-02	1.292E-04	3.134E-02	3.312E-05	1.777E-02	1.367E-05	1.143E-02	7.258E-06	5.865E-03	3.032E-06	2.886E-03	1.310E-06

OS (76)

(BARNs/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.293E+15	1.294E+15	5.753E+14	5.756E+14	3.239E+14	3.241E+14	1.442E+14	1.443E+14	8.129E+13	8.134E+13	5.213E+13	5.216E+13
2	8.083E+13	8.088E+13	3.596E+13	3.598E+13	2.025E+13	2.026E+13	9.016E+12	9.022E+12	5.081E+12	5.085E+12	3.258E+12	3.261E+12
3	1.597E+13	1.598E+13	7.105E+12	7.110E+12	4.000E+12	4.003E+12	1.781E+12	1.783E+12	1.004E+12	1.005E+12	6.438E+11	6.444E+11
4	5.055E+12	5.058E+12	2.249E+12	2.250E+12	1.266E+12	1.267E+12	5.638E+11	5.643E+11	3.178E+11	3.181E+11	2.038E+11	2.040E+11
6	9.995E+11	1.000E+12	4.447E+11	4.450E+11	2.504E+11	2.506E+11	1.115E+11	1.116E+11	6.284E+10	6.282E+10	4.029E+10	4.034E+10
8	3.167E+11	3.169E+11	1.409E+11	1.410E+11	7.933E+10	7.941E+10	3.533E+10	3.537E+10	1.991E+10	1.993E+10	1.277E+10	1.279E+10
10	1.300E+11	1.301E+11	5.782E+10	5.786E+10	3.255E+10	3.259E+10	1.450E+10	1.452E+10	8.170E+09	8.181E+09	5.239E+09	5.251E+09
15	2.583E+10	2.588E+10	1.149E+10	1.150E+10	6.471E+09	6.483E+09	2.882E+09	2.887E+09	1.624E+09	1.628E+09	1.041E+09	1.043E+09
20	8.247E+09	8.259E+09	3.669E+09	3.676E+09	2.066E+09	2.067E+09	9.199E+08	9.221E+08	5.185E+08	5.191E+08	3.325E+08	3.340E+08
30	1.671E+09	1.674E+09	7.434E+08	7.458E+08	4.186E+08	4.190E+08	1.864E+08	1.873E+08	1.051E+08	1.057E+08	6.737E+07	6.744E+07
45	3.497E+08	3.502E+08	1.556E+08	1.559E+08	8.758E+07	8.829E+07	3.900E+07	3.884E+07	2.198E+07	2.197E+07	1.409E+07	1.425E+07
60	1.200E+08	1.214E+08	5.338E+07	5.310E+07	3.005E+07	2.973E+07	1.338E+07	1.358E+07	7.543E+06	7.751E+06	4.837E+06	4.953E+06
75	5.460E+07	5.336E+07	2.429E+07	2.449E+07	1.368E+07	1.414E+07	6.090E+06	6.257E+06	3.433E+06	3.426E+06	2.201E+06	2.142E+06
90	3.000E+07	3.137E+07	1.334E+07	1.388E+07	7.513E+06	7.530E+06	3.366E+06	3.149E+06	1.886E+06	1.725E+06	1.209E+06	1.101E+06
120	1.333E+07	1.125E+07	5.931E+06	5.126E+06	3.339E+06	3.020E+06	1.487E+06	1.469E+06	8.381E+05	8.883E+05	5.374E+05	6.023E+05
150	8.614E+06	1.141E+07	3.832E+06	5.437E+06	2.158E+06	3.206E+06	9.609E+05	1.518E+06	5.415E+05	8.909E+05	3.473E+05	5.885E+05
179	7.500E+06	1.297E+07	3.337E+06	5.983E+06	1.879E+06	3.456E+06	8.366E+05	1.594E+06	4.715E+05	9.201E+05	3.023E+05	6.003E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.679E+13	2.672E+13	1.316E+13	1.317E+13	5.903E+12	5.908E+12	3.351E+12	3.355E+12	1.517E+12	1.519E+12	8.685E+11	8.700E+11
2	1.669E+12	1.670E+12	8.224E+11	8.233E+11	3.690E+11	3.695E+11	2.095E+11	2.098E+11	9.482E+10	9.503E+10	5.429E+10	5.443E+10
3	3.297E+11	3.301E+11	1.625E+11	1.627E+11	7.291E+10	7.302E+10	4.139E+10	4.148E+10	1.873E+10	1.879E+10	1.073E+10	1.076E+10
4	1.044E+11	1.045E+11	5.143E+10	5.152E+10	2.308E+10	2.312E+10	1.310E+10	1.314E+10	5.930E+09	5.950E+09	3.395E+09	3.409E+09
6	2.064E+10	2.068E+10	1.017E+10	1.019E+10	4.563E+09	4.578E+09	2.591E+09	2.600E+09	1.173E+09	1.177E+09	6.713E+08	6.756E+08
8	6.539E+09	6.552E+09	3.222E+09	3.230E+09	1.446E+09	1.452E+09	8.208E+08	8.239E+08	3.715E+08	3.738E+08	2.127E+08	2.148E+08
10	2.683E+09	2.688E+09	1.322E+09	1.328E+09	5.933E+08	5.956E+08	3.368E+08	3.381E+08	1.525E+08	1.539E+08	8.729E+07	8.846E+07
15	5.334E+08	5.359E+08	2.629E+08	2.639E+08	1.179E+08	1.184E+08	6.696E+07	6.760E+07	3.031E+07	3.083E+07	1.735E+07	1.766E+07
20	1.703E+08	1.711E+08	6.391E+07	6.406E+07	3.765E+07	3.805E+07	2.138E+07	2.176E+07	9.675E+06	9.854E+06	5.539E+06	5.618E+06
30	3.450E+07	3.455E+07	1.700E+07	1.725E+07	7.629E+06	7.793E+06	4.331E+06	4.398E+06	1.960E+06	1.966E+06	1.122E+06	1.123E+06
45	7.219E+06	7.387E+06	3.558E+06	3.614E+06	1.596E+06	1.587E+06	9.062E+05	8.924E+05	4.102E+05	4.083E+05	2.348E+05	2.431E+05
60	2.477E+06	2.481E+06	1.221E+06	1.191E+06	5.477E+05	5.314E+05	3.110E+05	3.074E+05	1.407E+05	1.473E+05	8.059E+04	8.908E+04
75	1.127E+06	1.068E+06	5.556E+05	5.277E+05	2.493E+05	2.473E+05	1.415E+05	1.479E+05	6.405E+04	7.322E+04	3.667E+04	4.486E+04
90	6.193E+05	5.763E+05	3.052E+05	3.003E+05	1.369E+05	1.472E+05	7.774E+04	8.961E+04	3.519E+04	4.473E+04	2.015E+04	2.733E+04
120	2.752E+05	3.350E+05	1.356E+05	1.792E+05	6.086E+04	8.739E+04	3.455E+04	5.221E+04	1.564E+04	2.506E+04	8.954E+03	1.480E+04
150	1.779E+05	3.140E+05	8.765E+04	1.607E+05	3.932E+04	7.452E+04	2.233E+04	4.299E+04	1.011E+04	1.963E+04	5.786E+03	1.117E+04
179	1.548E+05	3.148E+05	7.631E+04	1.584E+05	3.424E+04	7.211E+04	1.944E+04	4.107E+04	8.798E+03	1.840E+04	5.037E+03	1.032E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	5.655E+11	5.665E+11	2.982E+11	2.989E+11	1.531E+11	1.535E+11	7.298E+10	7.324E+10	4.369E+10	4.387E+10	2.159E+10	2.169E+10
2	3.535E+10	3.545E+10	1.864E+10	1.871E+10	9.569E+09	9.617E+09	4.562E+09	4.592E+09	2.731E+09	2.752E+09	1.349E+09	1.362E+09
3	6.984E+09	7.011E+09	3.683E+09	3.704E+09	1.891E+09	1.905E+09	9.014E+08	9.100E+08	5.396E+08	5.456E+08	2.666E+08	2.701E+08
4	2.211E+09	2.222E+09	1.166E+09	1.175E+09	5.984E+08	6.044E+08	2.853E+08	2.886E+08	1.708E+08	1.732E+08	8.439E+07	8.581E+07
6	4.371E+08	4.409E+08	2.305E+08	2.332E+08	1.183E+08	1.200E+08	5.641E+07	5.734E+07	3.377E+07	3.441E+07	1.669E+07	1.708E+07
8	1.388E+08	1.402E+08	7.304E+07	7.412E+07	3.749E+07	3.810E+07	1.787E+07	1.822E+07	1.070E+07	1.095E+07	5.287E+06	5.450E+06
10	5.684E+07	5.771E+07	2.997E+07	3.046E+07	1.539E+07	1.565E+07	7.335E+06	7.499E+06	4.391E+06	4.515E+06	2.170E+06	2.254E+06
15	1.130E+07	1.149E+07	5.958E+06	6.051E+06	3.059E+06	3.118E+06	1.458E+06	1.505E+06	8.729E+05	9.123E+05	4.313E+05	4.597E+05
20	3.607E+06	3.649E+06	1.902E+06	1.928E+06	9.764E+05	1.001E+06	4.655E+05	4.889E+05	2.787E+05	2.988E+05	1.377E+05	1.521E+05
30	7.308E+05	7.355E+05	3.854E+05	3.961E+05	1.978E+05	2.107E+05	9.432E+04	1.055E+05	5.646E+04	6.543E+04	2.790E+04	3.385E+04
45	1.529E+05	1.611E+05	8.064E+04	8.979E+04	4.139E+04	4.918E+04	1.973E+04	2.522E+04	1.181E+04	1.582E+04	5.837E+03	8.271E+03
60	5.247E+04	6.081E+04	2.767E+04	3.451E+04	1.420E+04	1.910E+04	6.772E+03	9.828E+03	4.054E+03	6.163E+03	2.003E+03	3.212E+03
75	2.388E+04	3.076E+04	1.259E+04	1.747E+04	6.446E+03	9.616E+03	3.082E+03	4.896E+03	1.845E+03	3.043E+03	9.115E+02	1.566E+03
90	1.312E+04	1.864E+04	6.918E+03	1.046E+04	3.551E+03	5.660E+03	1.693E+03	2.821E+03	1.013E+03	1.725E+03	5.007E+02	8.677E+02
120	5.830E+03	9.801E+03	3.075E+03	5.237E+03	1.578E+03	2.678E+03	7.524E+02	1.242E+03	4.504E+02	7.191E+02	2.225E+02	3.337E+02
150	3.767E+03	7.174E+03	1.987E+03	3.645E+03	1.020E+03	1.752E+03	4.862E+02	7.462E+02	2.911E+02	4.015E+02	1.438E+02	1.644E+02
179	3.280E+03	6.552E+03	1.730E+03	3.262E+03	8.879E+02	1.557E+03	4.233E+02	6.245E+02	2.534E+02	3.232E+02	1.252E+02	1.225E+02

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.324E+10	1.332E+10	9.111E+09	9.165E+09	5.210E+09	5.246E+09	2.883E+09	2.904E+09	1.459E+09	1.469E+09	8.910E+08	8.976E+08
2	8.278E+08	8.363E+08	5.695E+08	5.759E+08	3.257E+08	3.297E+08	1.802E+08	1.826E+08	9.119E+07	9.245E+07	5.570E+07	5.648E+07
3	1.636E+08	1.660E+08	1.125E+08	1.143E+08	6.435E+07	6.549E+07	3.560E+07	3.628E+07	1.802E+07	1.838E+07	1.100E+07	1.123E+07
4	5.177E+07	5.276E+07	3.562E+07	3.636E+07	2.037E+07	2.084E+07	1.127E+07	1.155E+07	5.703E+06	5.854E+06	3.483E+06	3.578E+06
6	1.024E+07	1.052E+07	7.043E+06	7.256E+06	4.028E+06	4.145E+06	2.228E+06	2.311E+06	1.128E+06	1.172E+06	6.887E+05	7.169E+05
8	3.243E+06	3.362E+06	2.232E+06	2.322E+06	1.276E+06	1.335E+06	7.061E+05	7.421E+05	3.573E+05	3.768E+05	2.182E+05	2.305E+05
10	1.331E+06	1.393E+06	9.157E+05	9.640E+05	5.237E+05	5.563E+05	2.897E+05	3.090E+05	1.466E+05	1.571E+05	8.955E+04	9.615E+04
15	2.646E+05	2.859E+05	1.820E+05	1.986E+05	1.041E+05	1.149E+05	5.760E+04	6.419E+04	2.915E+04	3.271E+04	1.780E+04	2.005E+04
20	8.446E+04	9.512E+04	5.811E+04	6.631E+04	3.323E+04	3.854E+04	1.839E+04	2.159E+04	9.304E+03	1.103E+04	5.683E+03	6.766E+03
30	1.711E+04	2.135E+04	1.177E+04	1.496E+04	6.734E+03	8.747E+03	3.726E+03	4.921E+03	1.835E+03	2.521E+03	1.152E+03	1.549E+03
45	3.581E+03	5.241E+03	2.464E+03	3.681E+03	1.409E+03	2.157E+03	7.795E+02	1.216E+03	3.945E+02	6.233E+02	2.409E+02	3.829E+02
60	1.229E+03	2.029E+03	8.454E+02	1.422E+03	4.835E+02	8.307E+02	2.675E+02	4.668E+02	1.354E+02	2.389E+02	6.267E+01	1.466E+02
75	5.592E+02	9.806E+02	3.847E+02	6.830E+02	2.200E+02	3.959E+02	1.217E+02	2.211E+02	6.160E+01	1.126E+02	3.762E+01	6.894E+01
90	3.072E+02	5.354E+02	2.114E+02	3.691E+02	1.209E+02	2.111E+02	6.687E+01	1.166E+02	3.384E+01	5.886E+01	2.067E+01	3.591E+01
120	1.365E+02	1.945E+02	9.393E+01	1.285E+02	5.372E+01	6.941E+01	2.972E+01	3.648E+01	1.504E+01	1.769E+01	9.186E+00	1.058E+01
150	8.822E+01	8.624E+01	6.070E+01	5.209E+01	3.471E+01	2.835E+01	1.920E+01	1.100E+01	9.718E+00	4.585E+00	5.936E+00	5.232E+00
179	7.681E+01	5.943E+01	5.285E+01	3.314E+01	3.022E+01	1.318E+01	1.672E+01	4.675E+00	8.461E+00	1.335E+00	5.168E+00	5.232E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	4.371E+08	4.404E+08	2.603E+08	2.623E+08	1.729E+08	1.743E+08	9.236E+07	9.307E+07	4.695E+07	4.731E+07	2.158E+07	2.167E+07
2	2.732E+07	2.771E+07	1.627E+07	1.651E+07	1.081E+07	1.097E+07	5.773E+06	5.857E+06	2.935E+06	2.977E+06	1.344E+06	1.364E+06
3	5.398E+06	5.512E+06	3.215E+06	3.283E+06	2.136E+06	2.181E+06	1.141E+06	1.165E+06	5.798E+05	5.923E+05	2.656E+05	2.713E+05
4	1.709E+06	1.756E+06	1.018E+06	1.046E+06	6.70E+05	6.951E+05	3.60E+05	3.713E+05	1.835E+05	1.887E+05	8.406E+04	8.645E+04
6	3.379E+05	3.520E+05	2.012E+05	2.098E+05	1.337E+05	1.394E+05	7.139E+04	7.445E+04	3.629E+04	3.785E+04	1.662E+04	1.734E+04
8	1.071E+05	1.132E+05	6.376E+04	6.748E+04	4.236E+04	4.484E+04	2.262E+04	2.395E+04	1.150E+04	1.218E+04	5.267E+03	5.579E+03
10	4.993E+04	4.725E+04	2.616E+04	2.816E+04	1.738E+04	1.872E+04	9.282E+03	9.999E+03	4.718E+03	5.084E+03	2.161E+03	2.329E+03
15	8.733E+03	9.862E+03	5.201E+03	5.880E+03	3.455E+03	3.908E+03	1.845E+03	2.088E+03	9.380E+02	1.062E+03	4.296E+02	4.865E+02
20	2.788E+03	3.331E+03	1.660E+03	1.987E+03	1.103E+03	1.351E+03	5.891E+02	7.059E+02	2.994E+02	3.590E+02	1.371E+02	1.645E+02
30	5.649E+02	7.632E+02	3.364E+02	4.554E+02	2.235E+02	3.028E+02	1.194E+02	1.619E+02	6.067E+01	8.233E+01	2.779E+01	3.772E+01
45	1.182E+02	1.888E+02	7.039E+01	1.127E+02	4.676E+01	7.492E+01	2.497E+01	4.005E+01	1.269E+01	2.037E+01	5.814E+00	9.333E+00
60	4.056E+01	7.221E+01	2.415E+01	4.308E+01	1.605E+01	2.844E+01	8.570E+00	1.531E+01	4.356E+00	7.785E+00	1.995E+00	3.567E+00
75	1.846E+01	3.389E+01	1.099E+01	2.020E+01	7.302E+00	1.343E+01	3.900E+00	7.174E+00	1.982E+00	3.647E+00	9.080E+00	1.671E+00
90	1.014E+01	1.759E+01	6.039E+00	1.047E+01	4.011E+00	6.954E+00	2.142E+00	3.713E+00	1.089E+00	1.887E+00	4.989E+00	8.643E+00
120	4.506E+00	5.095E+00	2.684E+00	3.011E+00	1.783E+00	1.992E+00	9.522E+01	1.060E+00	4.840E+01	5.377E+01	2.217E+01	2.460E+01
150	2.912E+00	1.119E+00	1.734E+00	6.369E+01	1.152E+00	4.132E+01	6.153E+01	2.158E+01	3.128E+01	1.082E+01	1.432E+01	4.421E+02
179	2.535E+00	1.317E+01	1.510E+00	4.773E+02	1.003E+00	2.138E+02	5.357E+01	6.245E+03	2.723E+01	1.675E+03	1.247E+01	3.797E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.228E+07	1.238E+07	5.548E+06	5.591E+06	3.147E+06	3.171E+06	2.034E+06	2.039E+06	1.030E+06	1.046E+06	5.110E+05	5.149E+05
2	7.680E+05	7.791E+05	3.468E+05	3.519E+05	1.947E+05	1.995E+05	1.268E+05	1.283E+05	6.491E+04	6.585E+04	3.194E+04	3.241E+04
3	1.517E+05	1.550E+05	6.893E+04	7.000E+04	3.886E+04	3.970E+04	2.499E+04	2.553E+04	1.283E+04	1.310E+04	6.311E+03	6.447E+03
4	4.802E+04	4.939E+04	2.169E+04	2.231E+04	1.230E+04	1.265E+04	7.911E+03	8.136E+03	4.059E+03	4.175E+03	1.998E+03	2.054E+03
6	9.497E+03	9.905E+03	4.289E+03	4.473E+03	2.432E+03	2.537E+03	1.564E+03	1.632E+03	8.027E+02	8.372E+02	3.950E+02	4.120E+02
8	3.009E+03	3.187E+03	1.359E+03	1.440E+03	7.707E+02	8.144E+02	4.957E+02	5.251E+02	2.543E+02	2.694E+02	1.252E+02	1.326E+02
10	1.235E+03	1.331E+03	5.576E+02	6.009E+02	3.162E+02	3.408E+02	2.034E+02	2.192E+02	1.044E+02	1.125E+02	5.136E+01	5.535E+01
15	2.455E+02	2.780E+02	1.109E+02	1.255E+02	6.286E+01	7.119E+01	4.043E+01	4.579E+01	2.075E+01	2.350E+01	1.021E+01	1.156E+01
20	7.836E+01	9.397E+01	3.539E+01	4.244E+01	2.007E+01	2.407E+01	1.291E+01	1.548E+01	6.623E+00	7.943E+00	3.259E+00	3.909E+00
30	1.588E+01	2.155E+01	7.171E+00	9.735E+00	4.066E+00	5.521E+00	2.615E+00	3.551E+00	1.342E+00	1.822E+00	6.604E+01	8.966E+01
45	3.322E+00	5.333E+00	1.500E+00	2.409E+00	8.508E+00	1.366E+00	5.472E+01	8.785E+01	2.808E+01	4.508E+01	1.382E+01	2.218E+01
60	1.140E+00	2.038E+00	5.148E+01	9.205E+01	2.920E+01	5.220E+01	1.878E+01	3.357E+01	9.635E+02	1.723E+01	4.742E+02	8.478E+02
75	5.188E+01	9.547E+01	2.343E+01	4.311E+01	1.329E+01	2.445E+01	8.545E+02	1.573E+01	4.385E+02	8.069E+02	2.158E+02	3.971E+02
90	2.850E+01	4.938E+01	1.287E+01	2.230E+01	7.203E+02	1.265E+01	4.694E+02	8.134E+02	2.409E+02	4.173E+02	1.185E+02	2.054E+02
120	1.267E+01	1.405E+01	5.720E+02	6.342E+02	3.244E+02	3.596E+02	2.086E+02	2.313E+02	1.071E+02	1.187E+02	5.288E+03	5.840E+03
150	8.185E+02	2.804E+02	3.698E+02	1.264E+02	2.096E+02	7.141E+03	1.348E+02	4.604E+03	6.918E+03	2.362E+03	3.404E+03	1.162E+03
179	7.126E+02	1.364E+04	3.218E+02	3.500E+05	1.825E+02	1.447E+05	1.174E+02	7.684E+06	6.023E+03	3.213E+06	2.964E+03	1.389E+06

IR (77)

(BARNES/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.327E+15	1.328E+15	5.905E+14	5.908E+14	3.325E+14	3.327E+14	1.481E+14	1.481E+14	8.344E+13	8.350E+13	5.351E+13	5.354E+13
2	8.297E+13	8.302E+13	3.691E+13	3.693E+13	2.078E+13	2.080E+13	9.255E+12	9.261E+12	5.216E+12	5.220E+12	3.365E+12	3.367E+12
3	1.639E+13	1.640E+13	7.293E+12	7.298E+12	4.106E+12	4.109E+12	1.829E+12	1.830E+12	1.031E+12	1.032E+12	6.608E+11	6.614E+11
4	5.189E+12	5.192E+12	2.308E+12	2.310E+12	1.306E+12	1.301E+12	5.788E+11	5.793E+11	3.262E+11	3.265E+11	2.092E+11	2.094E+11
6	1.026E+12	1.027E+12	4.564E+11	4.568E+11	2.570E+11	2.572E+11	1.144E+11	1.146E+11	6.450E+10	6.458E+10	4.136E+10	4.141E+10
8	3.251E+11	3.253E+11	1.446E+11	1.448E+11	0.143E+10	8.151E+10	3.626E+10	3.630E+10	2.044E+10	2.046E+10	1.311E+10	1.312E+10
10	1.334E+11	1.335E+11	5.935E+10	5.940E+10	3.342E+10	3.346E+10	1.488E+10	1.490E+10	8.386E+09	8.397E+09	5.378E+09	5.391E+09
15	2.652E+10	2.654E+10	1.180E+10	1.181E+10	6.643E+09	6.645E+09	2.958E+09	2.963E+09	1.667E+09	1.671E+09	1.069E+09	1.070E+09
20	8.466E+09	8.479E+09	3.766E+09	3.774E+09	2.121E+09	2.122E+09	9.443E+08	9.468E+08	5.322E+08	5.327E+08	3.413E+08	3.427E+08
30	1.715E+09	1.719E+09	7.631E+08	7.653E+08	4.297E+08	4.303E+08	1.913E+08	1.921E+08	1.078E+08	1.085E+08	6.915E+07	6.927E+07
45	3.589E+08	3.599E+08	1.597E+08	1.599E+08	8.990E+07	9.067E+07	4.003E+07	3.989E+07	2.256E+07	2.253E+07	1.447E+07	1.461E+07
60	1.238E+08	1.246E+08	5.479E+07	5.460E+07	3.085E+07	3.048E+07	1.374E+07	1.391E+07	7.742E+06	7.959E+06	4.965E+06	5.095E+06
75	5.605E+07	5.475E+07	2.493E+07	2.505E+07	1.404E+07	1.451E+07	6.252E+06	6.446E+06	3.523E+06	3.532E+06	2.259E+06	2.266E+06
90	3.079E+07	3.215E+07	1.370E+07	1.432E+07	7.712E+06	7.775E+06	3.434E+06	3.244E+06	1.936E+06	1.771E+06	1.241E+06	1.262E+06
120	1.368E+07	1.150E+07	6.088E+06	5.213E+06	3.428E+06	3.048E+06	1.526E+06	1.493E+06	8.603E+05	9.044E+05	5.516E+05	6.142E+05
150	8.842E+06	1.172E+07	3.934E+06	5.596E+06	2.215E+06	3.304E+06	9.863E+05	1.568E+06	5.559E+05	9.214E+05	3.565E+05	6.092E+05
179	7.699E+06	1.345E+07	3.425E+06	6.210E+06	1.928E+06	3.590E+06	8.587E+05	1.657E+06	4.840E+05	9.573E+05	3.103E+05	6.250E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.748E+13	2.743E+13	1.351E+13	1.352E+13	6.059E+12	6.045E+12	3.440E+12	3.444E+12	1.557E+12	1.559E+12	8.915E+11	8.929E+11
2	1.713E+12	1.715E+12	8.442E+11	8.451E+11	3.788E+11	3.793E+11	2.150E+11	2.154E+11	9.733E+10	9.754E+10	5.573E+10	5.587E+10
3	3.385E+11	3.389E+11	1.668E+11	1.670E+11	7.433E+10	7.436E+10	4.249E+10	4.258E+10	1.923E+10	1.929E+10	1.101E+10	1.105E+10
4	1.071E+11	1.073E+11	5.280E+10	5.289E+10	2.369E+10	2.373E+10	1.345E+10	1.349E+10	6.087E+09	6.108E+09	3.485E+09	3.499E+09
6	2.118E+10	2.122E+10	1.044E+10	1.046E+10	4.684E+09	4.699E+09	2.659E+09	2.670E+09	1.204E+09	1.209E+09	6.811E+08	6.934E+08
8	6.712E+09	6.726E+09	3.308E+09	3.315E+09	1.484E+09	1.491E+09	8.426E+08	8.458E+08	3.814E+08	3.836E+08	2.184E+08	2.205E+08
10	2.754E+09	2.759E+09	1.357E+09	1.363E+09	6.090E+08	6.115E+08	3.458E+08	3.471E+08	1.565E+08	1.579E+08	8.960E+07	9.081E+07
15	5.478E+08	5.500E+08	2.698E+08	2.710E+08	1.211E+08	1.215E+08	6.873E+07	6.936E+07	3.111E+07	3.165E+07	1.781E+07	1.814E+07
20	1.748E+08	1.757E+08	8.614E+07	8.628E+07	3.865E+07	3.903E+07	2.194E+07	2.233E+07	9.931E+06	1.013E+07	5.686E+06	5.773E+06
30	3.542E+07	3.544E+07	1.745E+07	1.769E+07	7.031E+06	8.007E+06	4.446E+06	4.522E+06	2.012E+06	2.020E+06	1.152E+06	1.153E+06
45	7.410E+06	7.586E+06	3.652E+06	3.718E+06	1.638E+06	1.632E+06	9.302E+05	9.161E+05	4.210E+05	4.179E+05	2.411E+05	2.454E+05
60	2.543E+06	2.555E+06	1.253E+06	1.225E+06	5.622E+05	5.443E+05	3.192E+05	3.143E+05	1.445E+05	1.503E+05	8.272E+04	9.077E+04
75	1.157E+06	1.097E+06	5.703E+05	5.398E+05	2.559E+05	2.524E+05	1.453E+05	1.509E+05	6.575E+04	7.479E+04	3.764E+04	4.590E+04
90	6.357E+05	5.878E+05	3.133E+05	3.059E+05	1.406E+05	1.501E+05	7.980E+04	9.153E+04	3.612E+04	4.584E+04	2.068E+04	2.808E+04
120	2.825E+05	3.426E+05	1.392E+05	1.838E+05	6.247E+04	8.993E+04	3.547E+04	5.386E+04	1.605E+04	2.593E+04	9.191E+03	1.534E+04
150	1.826E+05	3.256E+05	8.997E+04	1.668E+05	4.037E+04	7.753E+04	2.292E+04	4.479E+04	1.037E+04	2.048E+04	5.939E+03	1.167E+04
179	1.589E+05	3.281E+05	7.833E+04	1.652E+05	3.519E+04	7.532E+04	1.995E+04	4.293E+04	9.031E+03	1.926E+04	5.171E+03	1.082E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	5.805E+11	5.815E+11	3.061E+11	3.068E+11	1.571E+11	1.576E+11	7.491E+10	7.517E+10	4.485E+10	4.503E+10	2.216E+10	2.227E+10
2	3.629E+10	3.639E+10	1.914E+10	1.921E+10	9.823E+09	9.872E+09	4.693E+09	4.714E+09	2.803E+09	2.825E+09	1.395E+09	1.398E+09
3	7.169E+09	7.179E+09	3.781E+09	3.801E+09	1.941E+09	1.956E+09	9.252E+08	9.342E+08	5.539E+08	5.601E+08	2.737E+08	2.773E+08
4	2.269E+09	2.281E+09	1.197E+09	1.206E+09	6.143E+08	6.204E+08	2.929E+08	2.965E+08	1.753E+08	1.778E+08	8.662E+07	8.809E+07
6	4.487E+08	4.566E+08	2.366E+08	2.394E+08	1.215E+08	1.232E+08	5.791E+07	5.887E+07	3.467E+07	3.533E+07	1.713E+07	1.753E+07
8	1.422E+08	1.440E+08	7.498E+07	7.611E+07	3.849E+07	3.913E+07	1.835E+07	1.871E+07	1.098E+07	1.124E+07	5.427E+06	5.592E+06
10	5.834E+07	5.925E+07	3.077E+07	3.129E+07	1.579E+07	1.608E+07	7.529E+06	7.697E+06	4.507E+06	4.633E+06	2.227E+06	2.312E+06
15	1.160E+07	1.180E+07	6.116E+06	6.214E+06	3.140E+06	3.200E+06	1.497E+06	1.543E+06	8.960E+05	9.352E+05	4.427E+05	4.712E+05
20	3.702E+06	3.748E+06	1.952E+06	1.978E+06	1.002E+06	1.027E+06	4.778E+05	5.008E+05	2.860E+05	3.060E+05	1.413E+05	1.558E+05
30	7.502E+05	7.539E+05	3.956E+05	4.055E+05	2.031E+05	2.155E+05	9.681E+04	1.079E+05	5.796E+04	6.695E+04	2.864E+04	3.467E+04
45	1.570E+05	1.646E+05	8.278E+04	9.174E+04	4.249E+04	5.031E+04	2.026E+04	2.584E+04	1.213E+04	1.623E+04	5.992E+03	8.503E+03
60	5.388E+04	6.214E+04	2.840E+04	3.534E+04	1.458E+04	1.960E+04	6.951E+03	1.011E+04	4.161E+03	6.355E+03	2.056E+03	3.320E+03
75	2.451E+04	3.153E+04	1.293E+04	1.796E+04	6.635E+03	9.913E+03	3.163E+03	5.064E+03	1.894E+03	3.154E+03	9.356E+02	1.626E+03
90	1.347E+04	1.919E+04	7.101E+03	1.079E+04	3.645E+03	5.841E+03	1.738E+03	2.299E+03	1.040E+03	1.795E+03	5.140E+02	9.052E+02
120	5.985E+03	1.018E+04	3.156E+03	5.451E+03	1.620E+03	2.793E+03	7.723E+02	1.299E+03	4.624E+02	7.530E+02	2.244E+02	3.501E+02
150	3.867E+03	7.502E+03	2.039E+03	3.817E+03	1.047E+03	1.837E+03	4.991E+02	7.836E+02	2.988E+02	4.220E+02	1.476E+02	1.730E+02
179	3.367E+03	6.870E+03	1.776E+03	3.423E+03	9.114E+02	1.604E+03	4.345E+02	6.568E+02	2.601E+02	3.401E+02	1.285E+02	1.290E+02

LR (77)

(BARN/STERADIAN)

	RUTH		MOTT		RUTH		MOTT		RUTH		MOTT		RUTH		MOTT		RUTH		MOTT		RUTH		MOTT	
OE6	4.0E-01MEV				5.0E-01MEV				7.0E-01MEV				1.0E+00MEV				1.5E+00MEV				2.0E+00MEV			
1	1.359E+10	1.367E+10	9.353E+09	9.408E+09	5.348E+09	5.385E+09	2.959E+09	2.981E+09	1.497E+09	1.508E+09	9.146E+08	9.214E+08	4.819E+07	4.856E+07	2.207E+07	2.224E+07	4.819E+07	4.856E+07	2.207E+07	2.224E+07	4.819E+07	4.856E+07	2.207E+07	2.224E+07
2	8.497E+08	8.586E+08	5.846E+08	5.912E+08	3.343E+08	3.384E+08	1.850E+08	1.874E+08	9.360E+07	9.490E+07	5.717E+07	5.798E+07	3.012E+06	3.056E+06	1.380E+06	1.400E+06	3.012E+06	3.056E+06	1.380E+06	1.400E+06	3.012E+06	3.056E+06	1.380E+06	1.400E+06
3	1.679E+08	1.704E+08	1.155E+08	1.174E+08	6.606E+07	6.722E+07	3.655E+07	3.724E+07	1.849E+07	1.887E+07	1.130E+07	1.153E+07	5.952E+05	6.079E+05	2.726E+05	2.785E+05	5.952E+05	6.079E+05	2.726E+05	2.785E+05	5.952E+05	6.079E+05	2.726E+05	2.785E+05
4	5.314E+07	5.415E+07	3.656E+07	3.732E+07	2.091E+07	2.139E+07	1.157E+07	1.185E+07	5.854E+06	6.008E+06	3.575E+06	3.672E+06	1.884E+05	1.937E+05	8.629E+04	8.873E+04	1.884E+05	1.937E+05	8.629E+04	8.873E+04	1.884E+05	1.937E+05	8.629E+04	8.873E+04
6	1.051E+07	1.070E+07	7.229E+06	7.446E+06	4.134E+06	4.274E+06	2.287E+06	2.372E+06	1.157E+06	1.203E+06	7.070E+05	7.357E+05	3.668E+05	3.866E+05	2.240E+05	2.365E+05	3.668E+05	3.866E+05	2.240E+05	2.365E+05	3.668E+05	3.866E+05	2.240E+05	2.365E+05
8	3.329E+06	3.449E+06	2.291E+06	2.383E+06	1.310E+06	1.370E+06	7.248E+05	7.613E+05	3.668E+05	3.866E+05	2.240E+05	2.365E+05	1.157E+05	1.203E+05	5.854E+04	6.008E+04	1.157E+05	1.203E+05	5.854E+04	6.008E+04	1.157E+05	1.203E+05	5.854E+04	6.008E+04
10	1.366E+06	1.429E+06	9.400E+05	9.886E+05	5.375E+05	5.695E+05	2.974E+05	3.169E+05	1.505E+05	1.611E+05	9.192E+04	9.861E+04	5.912E+04	6.579E+04	2.992E+04	3.353E+04	5.912E+04	6.579E+04	2.992E+04	3.353E+04	5.912E+04	6.579E+04	2.992E+04	3.353E+04
15	2.716E+05	2.930E+05	1.869E+05	2.035E+05	1.069E+05	1.178E+05	5.912E+04	6.579E+04	2.992E+04	3.353E+04	1.827E+04	2.055E+04	1.887E+04	2.213E+04	9.551E+03	1.131E+04	1.887E+04	2.213E+04	9.551E+03	1.131E+04	1.887E+04	2.213E+04	9.551E+03	1.131E+04
20	8.670E+04	9.743E+04	5.965E+04	6.793E+04	3.411E+04	3.949E+04	1.887E+04	2.213E+04	9.551E+03	1.131E+04	5.833E+03	6.936E+03	3.824E+03	5.052E+03	1.935E+03	2.589E+03	3.824E+03	5.052E+03	1.935E+03	2.589E+03	3.824E+03	5.052E+03	1.935E+03	2.589E+03
30	1.757E+04	2.189E+04	1.209E+04	1.534E+04	6.912E+03	8.976E+03	3.824E+03	5.052E+03	1.935E+03	2.589E+03	1.182E+03	1.590E+03	8.002E+02	1.254E+03	4.049E+02	6.434E+02	8.002E+02	1.254E+03	4.049E+02	6.434E+02	8.002E+02	1.254E+03	4.049E+02	6.434E+02
45	3.676E+03	5.394E+03	2.529E+03	3.792E+03	1.446E+03	2.274E+03	8.002E+02	1.254E+03	4.049E+02	6.434E+02	2.473E+02	3.954E+02	2.746E+02	4.844E+02	1.389E+02	2.480E+02	2.746E+02	4.844E+02	1.389E+02	2.480E+02	2.746E+02	4.844E+02	1.389E+02	2.480E+02
60	1.261E+03	2.100E+03	8.678E+02	1.473E+03	4.963E+02	8.614E+02	2.746E+02	4.844E+02	1.389E+02	2.480E+02	8.466E+01	1.523E+02	1.250E+02	2.806E+02	6.233E+01	1.175E+02	8.466E+01	1.523E+02	1.250E+02	2.806E+02	6.233E+01	1.175E+02	8.466E+01	1.523E+02
75	5.740E+02	1.020E+03	3.949E+02	7.112E+02	2.258E+02	4.127E+02	1.250E+02	2.806E+02	6.233E+01	1.175E+02	3.853E+01	7.199E+01	6.864E+01	1.222E+02	3.474E+01	6.173E+01	6.864E+01	1.222E+02	3.474E+01	6.173E+01	6.864E+01	1.222E+02	3.474E+01	6.173E+01
90	3.153E+02	5.594E+02	2.169E+02	3.860E+02	1.241E+02	2.210E+02	6.864E+01	1.222E+02	3.474E+01	6.173E+01	2.122E+01	3.767E+01	3.051E+01	3.846E+01	1.544E+01	1.866E+01	3.051E+01	3.846E+01	1.544E+01	1.866E+01	3.051E+01	3.846E+01	1.544E+01	1.866E+01
120	1.401E+02	2.044E+02	9.642E+01	1.352E+02	5.514E+01	7.309E+01	3.051E+01	3.846E+01	1.544E+01	1.866E+01	9.429E+00	1.117E+01	1.971E+01	1.161E+01	9.776E+00	8.849E+00	9.429E+00	1.117E+01	1.971E+01	1.161E+01	9.776E+00	8.849E+00	9.429E+00	1.117E+01
150	9.055E+01	9.083E+01	6.231E+01	5.489E+01	3.563E+01	2.549E+01	1.971E+01	1.161E+01	9.776E+00	8.849E+00	6.093E+00	2.670E+00	1.716E+01	4.927E+00	8.685E+00	1.407E+00	6.093E+00	8.849E+00	6.093E+00	2.670E+00	1.716E+01	4.927E+00	8.685E+00	1.407E+00
179	7.884E+01	6.260E+01	5.425E+01	3.492E+01	3.102E+01	1.389E+01	1.716E+01	4.927E+00	8.685E+00	1.407E+00	5.305E+00	5.515E+01					5.305E+00	5.515E+01						
OE6	3.0E+00MEV				4.0E+00MEV				5.0E+00MEV				7.0E+00MEV				1.0E+01MEV				1.5E+01MEV			
1	4.487E+08	4.523E+08	2.672E+08	2.693E+08	1.775E+08	1.789E+08	9.480E+07	9.553E+07	4.819E+07	4.856E+07	2.207E+07	2.224E+07	4.819E+07	4.856E+07	2.207E+07	2.224E+07	4.819E+07	4.856E+07	2.207E+07	2.224E+07	4.819E+07	4.856E+07	2.207E+07	2.224E+07
2	2.805E+07	2.845E+07	1.670E+07	1.694E+07	1.110E+07	1.126E+07	5.926E+06	6.012E+06	3.012E+06	3.056E+06	1.380E+06	1.400E+06	3.012E+06	3.056E+06	1.380E+06	1.400E+06	3.012E+06	3.056E+06	1.380E+06	1.400E+06	3.012E+06	3.056E+06	1.380E+06	1.400E+06
3	5.541E+06	5.658E+06	3.300E+06	3.370E+06	2.192E+06	2.239E+06	1.171E+06	1.196E+06	5.952E+05	6.079E+05	2.726E+05	2.785E+05	5.952E+05	6.079E+05	2.726E+05	2.785E+05	5.952E+05	6.079E+05	2.726E+05	2.785E+05	5.952E+05	6.079E+05	2.726E+05	2.785E+05
4	1.754E+06	1.802E+06	1.045E+06	1.074E+06	6.939E+05	7.134E+05	3.706E+05	3.811E+05	1.884E+05	1.937E+05	8.629E+04	8.873E+04	1.884E+05	1.937E+05	8.629E+04	8.873E+04	1.884E+05	1.937E+05	8.629E+04	8.873E+04	1.884E+05	1.937E+05	8.629E+04	8.873E+04
6	3.468E+05	3.612E+05	2.066E+05	2.152E+05	1.372E+05	1.440E+05	7.328E+04	7.639E+04	3.725E+04	3.884E+04	1.706E+04	1.779E+04	3.725E+04	3.884E+04	1.706E+04	1.779E+04	3.725E+04	3.884E+04	1.706E+04	1.779E+04	3.725E+04	3.884E+04	1.706E+04	1.779E+04
8	1.099E+05	1.162E+05	6.545E+04	6.923E+04	4.348E+04	4.600E+04	2.322E+04	2.457E+04	1.180E+04	1.249E+04	5.406E+03	5.723E+03	1.180E+04	1.249E+04	5.406E+03	5.723E+03	1.180E+04	1.249E+04	5.406E+03	5.723E+03	1.180E+04	1.249E+04	5.406E+03	5.723E+03
10	4.509E+04	4.846E+04	2.686E+04	2.888E+04	1.784E+04	1.920E+04	9.528E+03	1.026E+04	4.843E+03	5.214E+03	2.218E+03	2.388E+03	4.843E+03	5.214E+03	2.218E+03	2.388E+03	4.843E+03	5.214E+03	2.218E+03	2.388E+03	4.843E+03	5.214E+03	2.218E+03	2.388E+03
15	8.964E+03	1.011E+04	5.339E+03	6.028E+03	3.547E+03	4.007E+03	1.894E+03	2.141E+03	9.628E+02	1.089E+03	4.410E+02	4.987E+02	9.628E+02	1.089E+03	4.410E+02	4.987E+02	9.628E+02	1.089E+03	4.410E+02	4.987E+02	9.628E+02	1.089E+03	4.410E+02	4.987E+02
20	2.862E+03	3.415E+03	1.704E+03	2.037E+03	1.132E+03	1.354E+03	6.047E+02	7.238E+02	3.074E+02	3.681E+02	1.408E+02	1.686E+02	6.228E+01	8.458E+01	2.805E+01	3.875E+01	6.228E+01	8.458E+01	2.805E+01	3.875E+01	6.228E+01	8.458E+01	2.805E+01	3.875E+01
30	5.798E+02	7.840E+02	3.453E+02	4.679E+02	2.294E+02	3.111E+02	1.225E+02	1.663E+02	6.228E+01	8.458E+01	2.805E+01	3.875E+01	1.303E+01	2.104E+01	5.968E+00	9.640E+00	2.805E+01	3.875E+01	1.303E+01	2.104E+01	5.968E+00	9.640E+00	2.805E+01	3.875E+01
45	1.213E+02	1.959E+02	7.226E+01	1.164E+02	4.800E+01	7.738E+01	2.564E+01	4.137E+01	1.303E+01	2.104E+01	5.968E+00	9.640E+00	1.118E+00	1.981E+00	5.120E+01	9.071E+01	1.118E+00	1.981E+00	5.120E+01	9.071E+01	1.118E+00	1.981E+00	5.120E+01	9.071E+01
60	4.163E+01	7.502E+01	2.479E+01	4.476E+01	1.647E+01	2.976E+01	8.797E+00	1.591E+01	4.711E+00	8.090E+00	2.048E+00	3.706E+00	1.118E+00	1.981E+00	5.120E+01	9.071E+01	4.968E+01	5.680E+01	2.276E+01	2.598E+01	4.968E+01	5.680E+01	2.276E+01	2.598E+01
75	1.895E+01	3.540E+01	1.128E+01	2.111E+01	7.495E+00	1.403E+01	4.003E+00	7.495E+00	2.035E+00	3.811E+00	9.320E+01	1.746E+00	1.118E+00	1.981E+00	5.120E+01	9.071E+01	3.210E+01	1.147E+01	1.470E+01	5.217E+02	1.470E+01	5.217E+02	1.470E+01	5.217E+02
90	1.041E+01	1.846E+01	6.199E+00	1.099E+01	4.118E+00	7.298E+00	2.199E+00	3.897E+00	1.118E+00	1.981E+00	5.120E+01	9.071E+01	4.968E+01	5.680E+01	2.276E+01	2.598E+01	3.210E+01	1.147E+01	1.470E+01	5.217E+02	1.470E+01	5.217E+02	1.470E+01	5.217E+02
120	4.626E+00	5.381E+00	2.755E+00	3.180E+00	1.830E+00	2.104E+00	6.316E+00	2.287E+01	5.499E+01	6.555E+03							2.795E+01	1.767E+03						
150	2.989E+00	1.185E+00	1.																					

PT (78)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.362E+15	1.363E+15	6.059E+14	6.063E+14	3.412E+14	3.414E+14	1.519E+14	1.520E+14	8.562E+13	8.568E+13	5.491E+13	5.494E+13
2	8.514E+13	8.519E+13	3.788E+13	3.790E+13	2.133E+13	2.134E+13	9.497E+12	9.503E+12	5.352E+12	5.356E+12	3.432E+12	3.435E+12
3	1.682E+13	1.683E+13	7.484E+12	7.489E+12	4.214E+12	4.217E+12	1.876E+12	1.878E+12	1.058E+12	1.058E+12	6.781E+11	6.788E+11
4	5.324E+12	5.328E+12	2.369E+12	2.370E+12	1.334E+12	1.335E+12	5.939E+11	5.944E+11	3.347E+11	3.351E+11	2.146E+11	2.149E+11
6	1.053E+12	1.054E+12	4.684E+11	4.688E+11	2.637E+11	2.640E+11	1.174E+11	1.176E+11	6.619E+10	6.627E+10	4.244E+10	4.250E+10
8	3.336E+11	3.338E+11	1.484E+11	1.485E+11	8.356E+10	8.363E+10	3.721E+10	3.725E+10	2.097E+10	2.100E+10	1.345E+10	1.347E+10
10	1.369E+11	1.370E+11	6.090E+10	6.095E+10	3.429E+10	3.433E+10	1.527E+10	1.529E+10	8.606E+09	8.616E+09	5.518E+09	5.531E+09
15	2.721E+10	2.724E+10	1.211E+10	1.212E+10	6.816E+09	6.828E+09	3.035E+09	3.039E+09	1.711E+09	1.716E+09	1.097E+09	1.098E+09
20	8.687E+09	8.701E+09	3.865E+09	3.872E+09	2.176E+09	2.177E+09	9.690E+08	9.719E+08	5.461E+08	5.466E+08	3.502E+08	3.515E+08
30	1.760E+09	1.764E+09	7.831E+08	7.850E+08	4.409E+08	4.418E+08	1.963E+08	1.970E+08	1.107E+08	1.114E+08	7.096E+07	7.114E+07
45	3.683E+08	3.696E+08	1.638E+08	1.639E+08	9.225E+07	9.307E+07	4.108E+07	4.096E+07	2.315E+07	2.309E+07	1.485E+07	1.497E+07
60	1.264E+08	1.277E+08	5.622E+07	5.614E+07	3.166E+07	3.125E+07	1.410E+07	1.425E+07	7.945E+06	8.168E+06	5.095E+06	5.239E+06
75	5.751E+07	5.618E+07	2.559E+07	2.561E+07	1.441E+07	1.487E+07	6.415E+06	6.636E+06	3.616E+06	3.640E+06	2.318E+06	2.272E+06
90	3.159E+07	3.293E+07	1.406E+07	1.475E+07	7.914E+06	8.026E+06	3.524E+06	3.341E+06	1.986E+06	1.818E+06	1.274E+06	1.153E+06
120	1.404E+07	1.175E+07	6.247E+06	5.301E+06	3.517E+06	3.115E+06	1.566E+06	1.516E+06	8.828E+05	9.200E+05	5.661E+05	6.258E+05
150	9.074E+06	1.203E+07	4.037E+06	5.756E+06	2.273E+06	3.404E+06	1.012E+06	1.518E+06	5.704E+05	9.524E+05	3.658E+05	6.304E+05
179	7.900E+06	1.394E+07	3.514E+06	6.443E+06	1.979E+06	3.727E+06	8.812E+05	1.723E+06	4.966E+05	9.957E+05	3.185E+05	6.504E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.812E+13	2.814E+13	1.386E+13	1.387E+13	6.218E+12	6.223E+12	3.530E+12	3.534E+12	1.598E+12	1.600E+12	9.148E+11	9.162E+11
2	1.758E+12	1.759E+12	8.663E+11	8.672E+11	3.887E+11	3.892E+11	2.207E+11	2.210E+11	9.988E+10	1.001E+11	5.718E+10	5.733E+10
3	3.473E+11	3.477E+11	1.712E+11	1.714E+11	7.679E+10	7.692E+10	4.360E+10	4.369E+10	1.973E+10	1.979E+10	1.130E+10	1.134E+10
4	1.099E+11	1.101E+11	5.418E+10	5.427E+10	2.431E+10	2.435E+10	1.380E+10	1.384E+10	6.246E+09	6.268E+09	3.576E+09	3.590E+09
6	2.174E+10	2.178E+10	1.071E+10	1.073E+10	4.806E+09	4.822E+09	2.729E+09	2.740E+09	1.235E+09	1.240E+09	7.071E+08	7.114E+08
8	6.887E+09	6.903E+09	3.394E+09	3.402E+09	1.523E+09	1.530E+09	8.646E+08	8.680E+08	3.913E+08	3.935E+08	2.241E+08	2.262E+08
10	2.825E+09	2.831E+09	1.393E+09	1.398E+09	6.249E+08	6.277E+08	3.548E+08	3.561E+08	1.606E+08	1.620E+08	9.194E+07	9.317E+07
15	5.618E+08	5.642E+08	2.769E+08	2.782E+08	1.242E+08	1.246E+08	7.053E+07	7.113E+07	3.192E+07	3.248E+07	1.828E+07	1.863E+07
20	1.794E+08	1.804E+08	8.839E+07	8.853E+07	3.966E+07	4.002E+07	2.252E+07	2.291E+07	1.019E+07	1.040E+07	5.835E+06	5.931E+06
30	3.634E+07	3.634E+07	1.791E+07	1.814E+07	8.036E+06	8.223E+06	4.562E+06	4.648E+06	2.065E+06	2.075E+06	1.182E+06	1.183E+06
45	7.604E+06	7.785E+06	3.747E+06	3.823E+06	1.681E+06	1.677E+06	9.546E+05	9.403E+05	4.320E+05	4.277E+05	2.474E+05	2.508E+05
60	2.609E+06	2.630E+06	1.286E+06	1.259E+06	5.769E+05	5.576E+05	3.276E+05	3.212E+05	1.483E+05	1.534E+05	8.488E+04	8.284E+04
75	1.187E+06	1.126E+06	5.852E+05	5.521E+05	2.625E+05	2.574E+05	1.491E+05	1.538E+05	6.747E+04	7.634E+04	3.863E+04	4.694E+04
90	6.523E+05	5.995E+05	3.215E+05	3.115E+05	1.442E+05	1.529E+05	8.189E+04	9.341E+04	3.706E+04	4.693E+04	2.122E+04	2.882E+04
120	2.899E+05	3.500E+05	1.429E+05	1.884E+05	6.410E+04	9.249E+04	3.639E+04	5.552E+04	1.647E+04	2.681E+04	9.431E+03	1.590E+04
150	1.873E+05	3.374E+05	9.232E+04	1.732E+05	4.142E+04	8.063E+04	2.352E+04	4.663E+04	1.064E+04	2.137E+04	6.094E+03	1.219E+04
179	1.631E+05	3.418E+05	8.038E+04	1.723E+05	3.606E+04	7.864E+04	2.048E+04	4.487E+04	9.267E+03	2.016E+04	5.306E+03	1.133E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	5.957E+11	5.967E+11	3.141E+11	3.148E+11	1.612E+11	1.617E+11	7.687E+10	7.714E+10	4.602E+10	4.621E+10	2.274E+10	2.285E+10
2	3.723E+10	3.734E+10	1.964E+10	1.971E+10	1.008E+10	1.013E+10	4.805E+09	4.837E+09	2.877E+09	2.899E+09	1.421E+09	1.435E+09
3	7.357E+09	7.385E+09	3.880E+09	3.901E+09	1.992E+09	2.007E+09	9.494E+08	9.587E+08	5.684E+08	5.748E+08	2.808E+08	2.846E+08
4	2.329E+09	2.340E+09	1.228E+09	1.237E+09	6.304E+08	6.367E+08	3.005E+08	3.043E+08	1.799E+08	1.825E+08	8.889E+07	9.039E+07
6	4.604E+08	4.643E+08	2.428E+08	2.457E+08	1.245E+08	1.244E+08	5.942E+07	6.042E+07	3.557E+07	3.625E+07	1.758E+07	1.799E+07
8	1.459E+08	1.477E+08	7.694E+07	7.812E+07	3.949E+07	4.017E+07	1.883E+07	1.920E+07	1.127E+07	1.153E+07	5.569E+06	5.737E+06
10	5.987E+07	6.082E+07	3.157E+07	3.212E+07	1.621E+07	1.650E+07	7.726E+06	7.898E+06	4.625E+06	4.753E+06	2.285E+06	2.371E+06
15	1.190E+07	1.212E+07	6.276E+06	6.381E+06	3.222E+06	3.283E+06	1.536E+06	1.582E+06	9.194E+05	9.583E+05	4.543E+05	4.827E+05
20	3.799E+06	3.850E+06	2.004E+06	2.030E+06	1.028E+06	1.042E+06	4.903E+05	5.128E+05	2.935E+05	3.132E+05	1.450E+05	1.594E+05
30	7.698E+05	7.727E+05	4.060E+05	4.149E+05	2.084E+05	2.203E+05	9.935E+04	1.103E+05	5.947E+04	6.848E+04	2.938E+04	3.549E+04
45	1.611E+05	1.680E+05	8.494E+04	9.368E+04	4.369E+04	5.142E+04	2.079E+04	2.646E+04	1.244E+04	1.665E+04	6.148E+03	8.736E+03
60	5.527E+04	6.347E+04	2.915E+04	3.615E+04	1.496E+04	2.010E+04	7.133E+03	1.040E+04	4.270E+03	6.548E+03	2.110E+03	3.429E+03
75	2.515E+04	3.230E+04	1.326E+04	1.844E+04	6.809E+03	1.021E+04	3.246E+03	5.233E+03	1.943E+03	3.266E+03	9.601E+02	1.688E+03
90	1.382E+04	1.974E+04	7.287E+03	1.114E+04	3.740E+03	6.065E+03	1.783E+03	3.041E+03	1.067E+03	1.867E+03	5.274E+02	9.439E+02
120	6.141E+03	1.056E+04	3.239E+03	5.670E+03	1.622E+03	2.912E+03	7.925E+02	1.357E+03	4.744E+02	7.883E+02	2.344E+02	3.673E+02
150	3.968E+03	7.843E+03	2.093E+03	3.995E+03	1.074E+03	1.926E+03	5.121E+02	8.226E+02	3.066E+02	4.434E+02	1.515E+02	1.820E+02
179	3.455E+03	7.201E+03	1.822E+03	3.592E+03	9.353E+02	1.685E+03	4.459E+02	6.906E+02	2.669E+02	3.579E+02	1.319E+02	1.358E+02

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.395E+08	1.403E+10	9.597E+09	9.656E+09	5.488E+09	5.524E+09	3.036E+09	3.059E+09	1.537E+09	1.548E+09	9.385E+08	9.455E+08
2	8.719E+08	8.811E+08	5.999E+08	6.067E+08	3.431E+08	3.473E+08	1.898E+08	1.923E+08	9.605E+07	9.738E+07	5.867E+07	5.950E+07
3	1.723E+08	1.748E+08	1.185E+08	1.204E+08	6.778E+07	6.908E+07	3.750E+07	3.822E+07	1.898E+07	1.936E+07	1.159E+07	1.183E+07
4	5.453E+07	5.557E+07	3.752E+07	3.830E+07	2.145E+07	2.195E+07	1.187E+07	1.216E+07	6.007E+06	6.164E+06	3.669E+06	3.768E+06
6	1.078E+07	1.107E+07	7.418E+06	7.639E+06	4.242E+06	4.384E+06	2.347E+06	2.433E+06	1.188E+06	1.234E+06	7.255E+05	7.547E+05
8	3.416E+06	3.538E+06	2.351E+06	2.444E+06	1.344E+06	1.405E+06	7.437E+05	7.807E+05	3.763E+05	3.964E+05	2.299E+05	2.425E+05
10	1.402E+06	1.465E+06	9.645E+05	1.014E+06	5.516E+05	5.838E+05	3.052E+05	3.249E+05	1.544E+05	1.652E+05	9.433E+04	1.011E+05
15	2.787E+05	3.001E+05	1.917E+05	2.085E+05	1.096E+05	1.207E+05	6.067E+04	6.741E+04	3.070E+04	3.436E+04	1.875E+04	2.106E+04
20	8.896E+04	9.975E+04	6.121E+04	6.956E+04	3.500E+04	4.045E+04	1.937E+04	2.267E+04	9.800E+03	1.159E+04	5.986E+03	7.108E+03
30	1.803E+04	2.242E+04	1.240E+04	1.572E+04	7.093E+03	9.204E+03	3.924E+03	5.183E+03	1.986E+03	2.657E+03	1.213E+03	1.633E+03
45	3.772E+03	5.549E+03	2.595E+03	3.904E+03	1.484E+03	2.292E+03	8.211E+02	1.293E+03	4.155E+02	6.638E+02	2.538E+02	4.080E+02
60	1.294E+03	2.172E+03	8.905E+02	1.525E+03	5.092E+02	8.958E+02	2.817E+02	5.025E+02	1.426E+02	2.574E+02	8.708E+01	1.581E+02
75	5.890E+02	1.061E+03	4.052E+02	7.402E+02	2.317E+02	4.390E+02	1.282E+02	2.405E+02	6.488E+01	1.226E+02	3.963E+01	7.515E+01
90	3.236E+02	5.842E+02	2.226E+02	4.035E+02	1.273E+02	2.313E+02	7.044E+01	1.280E+02	3.564E+01	6.471E+01	2.177E+01	3.950E+01
120	1.438E+02	2.147E+02	9.894E+01	1.422E+02	5.659E+01	7.695E+01	3.131E+01	4.054E+01	1.584E+01	1.969E+01	9.676E+00	1.179E+01
150	9.292E+01	9.565E+01	6.393E+01	5.785E+01	3.656E+01	2.710E+01	2.023E+01	1.227E+01	1.024E+01	5.128E+00	6.252E+00	3.825E+00
179	8.090E+01	6.594E+01	5.566E+01	3.679E+01	3.183E+01	1.463E+01	1.761E+01	5.193E+00	8.912E+00	1.483E+00	5.444E+00	5.813E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	4.604E+08	4.640E+08	2.742E+08	2.763E+08	1.822E+08	1.836E+08	9.728E+07	9.807E+07	4.945E+07	4.985E+07	2.265E+07	2.283E+07
2	2.878E+07	2.920E+07	1.714E+07	1.739E+07	1.139E+07	1.155E+07	6.081E+06	6.169E+06	3.091E+06	3.136E+06	1.416E+06	1.436E+06
3	5.686E+06	5.806E+06	3.387E+06	3.458E+06	2.250E+06	2.298E+06	1.202E+06	1.227E+06	6.107E+05	6.238E+05	2.797E+05	2.857E+05
4	1.800E+06	1.849E+06	1.072E+06	1.102E+06	7.121E+05	7.350E+05	3.803E+05	3.910E+05	1.933E+05	1.988E+05	8.854E+04	9.104E+04
6	3.559E+05	3.706E+05	2.120E+05	2.208E+05	1.408E+05	1.467E+05	7.520E+04	7.836E+04	3.822E+04	3.984E+04	1.751E+04	1.825E+04
8	1.128E+05	1.191E+05	6.716E+04	7.099E+04	4.461E+04	4.718E+04	2.383E+04	2.520E+04	1.211E+04	1.281E+04	5.547E+03	5.669E+03
10	4.627E+04	4.968E+04	2.756E+04	2.961E+04	1.831E+04	1.968E+04	9.777E+03	1.051E+04	4.970E+03	5.345E+03	2.276E+03	2.449E+03
15	9.198E+03	1.036E+04	5.478E+03	6.177E+03	3.639E+03	4.106E+03	1.944E+03	2.194E+03	9.880E+02	1.116E+03	4.525E+02	5.111E+02
20	2.938E+03	3.500E+03	1.749E+03	2.088E+03	1.162E+03	1.388E+03	6.205E+02	7.418E+02	3.154E+02	3.772E+02	1.445E+02	1.728E+02
30	5.950E+02	8.049E+02	3.544E+02	4.804E+02	2.354E+02	3.194E+02	1.257E+02	1.708E+02	6.391E+01	8.885E+01	2.927E+01	3.979E+01
45	1.245E+02	2.012E+02	7.415E+01	1.201E+02	4.925E+01	7.988E+01	2.631E+01	4.270E+01	1.337E+01	2.172E+01	6.125E+00	9.952E+00
60	4.272E+01	7.790E+01	2.544E+01	4.648E+01	1.690E+01	3.091E+01	9.027E+00	1.652E+01	4.588E+00	8.402E+00	2.102E+00	3.850E+00
75	1.944E+01	3.696E+01	1.158E+01	2.204E+01	7.692E+00	1.465E+01	4.108E+00	7.827E+00	2.088E+00	3.980E+00	9.564E+00	1.823E+00
90	1.068E+01	1.936E+01	6.361E+00	1.153E+01	4.225E+00	7.657E+00	2.257E+00	4.089E+00	1.147E+00	2.078E+00	5.254E+01	9.518E+01
120	4.747E+00	5.481E+00	2.827E+00	3.358E+00	1.878E+00	2.222E+00	1.003E+00	1.183E+00	5.098E+01	5.999E+01	2.335E+01	2.745E+01
150	3.067E+00	1.255E+00	1.827E+00	7.150E+01	1.213E+00	4.641E+01	6.481E+01	2.424E+01	3.294E+01	1.216E+01	1.509E+01	5.530E+02
179	2.678E+00	1.463E+01	1.590E+00	5.305E+02	1.057E+00	2.379E+02	5.642E+01	6.944E+03	2.868E+01	1.863E+03	1.314E+01	4.227E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.294E+07	1.305E+07	5.844E+06	5.892E+06	3.314E+06	3.341E+06	2.132E+06	2.149E+06	1.094E+06	1.103E+06	5.383E+05	5.426E+05
2	8.089E+05	8.207E+05	3.653E+05	3.706E+05	2.072E+05	2.102E+05	1.332E+05	1.352E+05	6.837E+04	6.937E+04	3.365E+04	3.414E+04
3	1.598E+05	1.633E+05	7.218E+04	7.373E+04	4.093E+04	4.181E+04	2.633E+04	2.689E+04	1.351E+04	1.380E+04	6.648E+03	6.791E+03
4	5.059E+04	5.202E+04	2.285E+04	2.349E+04	1.298E+04	1.332E+04	8.333E+03	8.568E+03	4.276E+03	4.396E+03	2.104E+03	2.164E+03
6	1.008E+04	1.043E+04	4.517E+03	4.709E+03	2.562E+03	2.670E+03	1.648E+03	1.717E+03	8.455E+02	8.813E+02	4.161E+02	4.337E+02
8	3.178E+03	3.353E+03	1.431E+03	1.514E+03	8.117E+02	8.588E+02	5.221E+02	5.524E+02	2.679E+02	2.834E+02	1.318E+02	1.395E+02
10	1.301E+03	1.399E+03	5.874E+02	6.319E+02	3.331E+02	3.583E+02	2.142E+02	2.305E+02	1.099E+02	1.183E+02	5.410E+01	5.826E+01
15	2.588E+02	2.920E+02	1.168E+02	1.319E+02	6.622E+01	7.480E+01	4.259E+01	4.811E+01	2.185E+01	2.468E+01	1.075E+01	1.215E+01
20	8.254E+01	9.875E+01	3.727E+01	4.460E+01	2.114E+01	2.529E+01	1.360E+01	1.627E+01	6.976E+00	8.347E+00	3.433E+00	4.108E+00
30	1.672E+01	2.274E+01	7.553E+00	1.027E+01	4.293E+00	5.824E+00	2.755E+00	3.746E+00	1.414E+00	1.922E+00	6.956E+01	9.458E+01
45	3.499E+00	5.687E+00	1.580E+00	2.568E+00	8.964E+01	1.457E+00	5.764E+01	9.368E+01	2.958E+01	4.807E+01	1.455E+01	2.366E+01
60	1.201E+00	2.200E+00	5.423E+00	9.935E+01	3.075E+01	5.634E+01	1.978E+01	3.624E+01	1.015E+01	1.859E+01	4.994E+02	9.150E+02
75	5.464E+01	1.042E+00	2.468E+01	4.705E+01	1.399E+01	2.668E+01	9.001E+02	1.716E+01	4.619E+02	8.805E+02	2.273E+02	4.333E+02
90	3.002E+01	5.438E+01	1.356E+01	2.454E+01	7.688E+02	1.393E+01	4.945E+02	8.957E+02	2.537E+02	4.596E+02	1.249E+02	2.262E+02
120	1.334E+01	1.567E+01	6.025E+02	7.077E+02	3.417E+02	4.013E+02	2.198E+02	2.581E+02	1.128E+02	1.324E+02	5.549E+03	6.516E+03
150	8.621E+02	3.151E+02	3.893E+02	1.420E+02	2.208E+02	8.049E+03	1.420E+02	5.175E+03	7.287E+03	2.655E+03	3.586E+03	1.306E+03
179	7.506E+02	1.521E+04	3.390E+02	3.910E+05	1.922E+02	1.019E+05	1.236E+02	8.612E+06	6.344E+03	3.608E+06	3.122E+03	1.562E+06

AU (79)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.397E+15	1.398E+15	6.216E+14	6.220E+14	3.500E+14	3.502E+14	1.558E+14	1.559E+14	8.783E+13	8.789E+13	5.632E+13	5.636E+13
2	8.734E+13	8.739E+13	3.885E+13	3.888E+13	2.188E+13	2.189E+13	9.742E+12	9.749E+12	5.490E+12	5.495E+12	3.521E+12	3.524E+12
3	1.726E+13	1.727E+13	7.677E+12	7.682E+12	4.322E+12	4.325E+12	1.925E+12	1.926E+12	1.085E+12	1.086E+12	6.956E+11	6.963E+11
4	5.462E+12	5.465E+12	2.430E+12	2.432E+12	1.368E+12	1.369E+12	6.092E+11	6.097E+11	3.434E+11	3.437E+11	2.202E+11	2.204E+11
6	1.080E+12	1.081E+12	4.805E+11	4.809E+11	2.705E+11	2.708E+11	1.205E+11	1.206E+11	6.789E+10	6.797E+10	4.354E+10	4.360E+10
8	3.422E+11	3.425E+11	1.522E+11	1.524E+11	8.572E+10	8.579E+10	3.817E+10	3.821E+10	2.151E+10	2.155E+10	1.379E+10	1.381E+10
10	1.404E+11	1.406E+11	6.247E+10	6.253E+10	3.517E+10	3.522E+10	1.566E+10	1.569E+10	8.828E+09	8.838E+09	5.661E+09	5.673E+09
15	2.791E+10	2.795E+10	1.242E+10	1.243E+10	6.992E+09	7.004E+09	3.114E+09	3.117E+09	1.755E+09	1.760E+09	1.125E+09	1.127E+09
20	8.911E+09	8.924E+09	3.964E+09	3.971E+09	2.212E+09	2.234E+09	9.940E+08	9.972E+08	5.602E+08	5.607E+08	3.592E+08	3.604E+08
30	1.804E+09	1.810E+09	8.033E+08	8.049E+08	4.521E+08	4.534E+08	2.014E+08	2.020E+08	1.135E+08	1.143E+08	7.279E+07	7.304E+07
45	3.778E+08	3.795E+08	1.681E+08	1.679E+08	9.463E+07	9.547E+07	4.214E+07	4.205E+07	2.375E+07	2.366E+07	1.523E+07	1.533E+07
60	1.296E+08	1.309E+08	5.767E+07	5.772E+07	3.247E+07	3.205E+07	1.446E+07	1.458E+07	8.150E+06	8.377E+06	5.226E+06	5.383E+06
75	5.900E+07	5.766E+07	2.625E+07	2.617E+07	1.478E+07	1.522E+07	6.581E+06	6.829E+06	3.709E+06	3.751E+06	2.378E+06	2.340E+06
90	3.241E+07	3.369E+07	1.442E+07	1.519E+07	8.118E+06	8.283E+06	3.615E+06	3.443E+06	2.037E+06	1.866E+06	1.307E+06	1.180E+06
120	1.446E+07	1.201E+07	6.408E+06	5.388E+06	3.608E+06	3.140E+06	1.607E+06	1.539E+06	9.055E+05	9.351E+05	5.807E+05	6.371E+05
150	9.308E+06	1.234E+07	4.141E+06	5.918E+06	2.331E+06	3.505E+06	1.038E+06	1.669E+06	5.851E+05	9.839E+05	3.752E+05	6.191E+05
179	8.104E+06	1.445E+07	3.605E+06	6.683E+06	2.030E+06	3.868E+06	9.039E+05	1.790E+06	5.094E+05	1.035E+06	3.267E+05	6.767E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.885E+13	2.887E+13	1.422E+13	1.423E+13	6.378E+12	6.384E+12	3.621E+12	3.625E+12	1.639E+12	1.641E+12	9.384E+11	9.399E+11
2	1.803E+12	1.805E+12	8.886E+11	8.896E+11	3.987E+11	3.992E+11	2.264E+11	2.267E+11	1.025E+11	1.027E+11	5.866E+10	5.881E+10
3	3.563E+11	3.567E+11	1.756E+11	1.758E+11	7.877E+10	7.891E+10	4.472E+10	4.481E+10	2.024E+10	2.030E+10	1.159E+10	1.163E+10
4	1.128E+11	1.129E+11	5.557E+10	5.567E+10	2.493E+10	2.498E+10	1.416E+10	1.420E+10	6.407E+09	6.430E+09	3.669E+09	3.683E+09
6	2.230E+10	2.234E+10	1.099E+10	1.101E+10	4.930E+09	4.946E+09	2.799E+09	2.811E+09	1.267E+09	1.272E+09	7.254E+08	7.296E+08
8	7.065E+09	7.082E+09	3.482E+09	3.489E+09	1.562E+09	1.569E+09	8.869E+08	8.906E+08	4.014E+08	4.036E+08	2.298E+08	2.320E+08
10	2.899E+09	2.905E+09	1.429E+09	1.434E+09	6.410E+08	6.440E+08	3.639E+08	3.653E+08	1.647E+08	1.661E+08	9.432E+07	9.557E+07
15	5.763E+08	5.786E+08	2.840E+08	2.855E+08	1.274E+08	1.278E+08	7.235E+07	7.292E+07	3.275E+07	3.332E+07	1.875E+07	1.912E+07
20	1.840E+08	1.851E+08	9.067E+07	9.083E+07	4.068E+07	4.102E+07	2.310E+07	2.350E+07	1.045E+07	1.068E+07	5.985E+06	6.092E+06
30	3.728E+07	3.726E+07	1.837E+07	1.859E+07	8.243E+06	8.441E+06	4.680E+06	4.776E+06	2.118E+06	2.132E+06	1.213E+06	1.213E+06
45	7.800E+06	7.985E+06	3.844E+06	3.930E+06	1.725E+06	1.724E+06	9.792E+05	9.652E+05	4.432E+05	4.377E+05	2.538E+05	2.562E+05
60	2.677E+06	2.707E+06	1.319E+06	1.284E+06	5.918E+05	5.711E+05	3.360E+05	3.282E+05	1.521E+05	1.565E+05	8.707E+04	9.469E+04
75	1.218E+06	1.157E+06	6.003E+05	5.647E+05	2.693E+05	2.625E+05	1.529E+05	1.568E+05	6.921E+04	7.788E+04	3.963E+04	4.797E+04
90	6.492E+05	6.113E+05	3.298E+05	3.170E+05	1.480E+05	1.557E+05	8.400E+04	9.527E+04	3.802E+04	4.802E+04	2.177E+04	2.957E+04
120	2.974E+05	3.574E+05	1.466E+05	1.929E+05	6.576E+04	9.505E+04	3.733E+04	5.720E+04	1.690E+04	2.771E+04	9.675E+03	1.647E+04
150	1.922E+05	3.495E+05	9.470E+04	1.797E+05	4.249E+04	8.382E+04	2.412E+04	4.854E+04	1.092E+04	2.228E+04	6.252E+03	1.272E+04
179	1.673E+05	3.559E+05	8.245E+04	1.796E+05	3.699E+04	8.209E+04	2.100E+04	4.688E+04	9.506E+03	2.109E+04	5.443E+03	1.186E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	6.110E+11	6.121E+11	3.222E+11	3.229E+11	1.654E+11	1.658E+11	7.886E+10	7.913E+10	4.721E+10	4.740E+10	2.332E+10	2.344E+10
2	3.820E+10	3.830E+10	2.014E+10	2.022E+10	1.034E+10	1.039E+10	4.929E+09	4.962E+09	2.951E+09	2.974E+09	1.458E+09	1.472E+09
3	7.547E+09	7.575E+09	3.980E+09	4.001E+09	2.043E+09	2.048E+09	9.739E+08	9.835E+08	5.830E+08	5.897E+08	2.881E+08	2.920E+08
4	2.389E+09	2.400E+09	1.260E+09	1.269E+09	6.466E+08	6.531E+08	3.083E+08	3.121E+08	1.845E+08	1.872E+08	9.118E+07	9.273E+07
6	4.723E+08	4.762E+08	2.491E+08	2.520E+08	1.279E+08	1.297E+08	6.095E+07	6.199E+07	3.649E+07	3.719E+07	1.845E+07	1.845E+07
8	1.497E+08	1.515E+08	7.892E+07	8.015E+07	4.311E+07	4.422E+07	1.931E+07	1.970E+07	1.156E+07	1.183E+07	5.713E+06	5.883E+06
10	6.141E+07	6.240E+07	3.239E+07	3.297E+07	1.662E+07	1.694E+07	7.925E+06	8.102E+06	4.744E+06	4.874E+06	2.344E+06	2.431E+06
15	1.221E+07	1.244E+07	6.438E+06	6.550E+06	3.305E+06	3.368E+06	1.575E+06	1.622E+06	9.432E+05	9.818E+05	4.660E+05	4.943E+05
20	3.897E+06	3.953E+06	2.055E+06	2.082E+06	1.055E+06	1.078E+06	5.029E+05	5.249E+05	3.011E+05	3.205E+05	1.488E+05	1.631E+05
30	7.897E+05	7.918E+05	4.164E+05	4.245E+05	2.138E+05	2.252E+05	1.019E+05	1.127E+05	6.101E+04	7.000E+04	3.014E+04	3.631E+04
45	1.652E+05	1.715E+05	8.713E+04	9.561E+04	4.473E+04	5.252E+04	2.132E+04	2.707E+04	1.276E+04	1.706E+04	6.307E+03	8.969E+03
60	6.700E+04	6.478E+04	2.990E+04	3.696E+04	1.535E+04	2.060E+04	7.317E+03	1.069E+04	4.380E+03	6.743E+03	2.164E+03	3.539E+03
75	2.580E+04	3.066E+04	1.361E+04	1.893E+04	6.985E+03	1.051E+04	3.330E+03	5.406E+03	1.993E+03	3.381E+03	9.849E+02	1.752E+03
90	1.417E+04	2.029E+04	7.475E+03	1.148E+04	3.837E+03	6.272E+03	1.829E+03	3.155E+03	1.095E+03	1.942E+03	5.410E+02	9.839E+02
120	6.308E+03	1.096E+04	3.322E+03	5.896E+03	1.705E+03	3.039E+03	8.130E+02	1.418E+03	4.867E+02	8.250E+02	2.405E+02	3.853E+02
150	4.071E+03	8.196E+03	2.147E+03	4.182E+03	1.102E+03	2.018E+03	5.253E+02	8.635E+02	3.145E+02	4.659E+02	1.554E+02	1.915E+02
179	3.544E+03	7.547E+03	1.869E+03	3.769E+03	9.594E+02	1.770E+03	4.574E+02	7.262E+02	2.738E+02	3.766E+02	1.353E+02	1.430E+02

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.431E+10	1.439E+10	9.845E+09	9.905E+09	5.630E+09	5.667E+09	3.115E+09	3.138E+09	1.576E+09	1.588E+09	9.628E+08	9.704E+08
2	8.944E+08	9.037E+08	6.154E+08	6.224E+08	3.519E+08	3.563E+08	1.947E+08	1.973E+08	9.853E+07	9.989E+07	6.018E+07	6.103E+07
3	1.767E+08	1.794E+08	1.216E+08	1.236E+08	6.953E+07	7.076E+07	3.847E+07	3.920E+07	1.947E+07	1.986E+07	1.189E+07	1.214E+07
4	5.593E+07	5.700E+07	3.849E+07	3.928E+07	2.201E+07	2.251E+07	1.218E+07	1.248E+07	6.162E+06	6.323E+06	3.764E+06	3.865E+06
6	1.106E+07	1.136E+07	7.610E+06	7.835E+06	4.352E+06	4.496E+06	2.408E+06	2.495E+06	1.218E+06	1.266E+06	7.442E+05	7.739E+05
8	3.504E+06	3.628E+06	2.411E+06	2.506E+06	1.379E+06	1.440E+06	7.629E+05	8.004E+05	3.861E+05	4.064E+05	2.358E+05	2.486E+05
10	1.438E+06	1.502E+06	9.894E+05	1.039E+06	5.658E+05	5.944E+05	3.131E+05	3.330E+05	1.584E+05	1.693E+05	9.676E+04	1.036E+05
15	2.859E+05	3.073E+05	1.967E+05	2.135E+05	1.125E+05	1.236E+05	6.223E+04	6.903E+04	3.149E+04	3.519E+04	1.923E+04	2.157E+04
20	9.126E+04	1.021E+05	6.279E+04	7.119E+04	3.591E+04	4.141E+04	1.987E+04	2.321E+04	1.005E+04	1.186E+04	6.140E+03	7.279E+03
30	1.849E+04	2.295E+04	1.272E+04	1.610E+04	7.276E+03	9.442E+03	4.025E+03	5.314E+03	2.037E+03	2.726E+03	1.244E+03	1.675E+03
45	3.869E+03	5.703E+03	2.662E+03	4.016E+03	1.522E+03	2.360E+03	8.423E+02	1.333E+03	4.262E+02	6.844E+02	2.603E+02	4.208E+02
60	1.328E+03	2.245E+03	9.135E+02	1.578E+03	5.224E+02	9.248E+02	2.890E+02	5.209E+02	1.463E+02	2.670E+02	8.933E+01	1.640E+02
75	6.042E+02	1.102E+03	4.157E+02	7.700E+02	2.377E+02	4.479E+02	1.315E+02	2.508E+02	6.656E+01	1.279E+02	4.065E+01	7.842E+01
90	3.319E+02	6.099E+02	2.284E+02	4.216E+02	1.306E+02	2.470E+02	7.225E+01	1.340E+02	3.656E+01	6.782E+01	2.233E+01	4.141E+01
120	1.475E+02	2.255E+02	1.015E+02	1.495E+02	5.804E+01	8.101E+01	3.211E+01	4.272E+01	1.625E+01	2.077E+01	9.926E+00	1.244E+01
150	9.532E+01	1.007E+02	6.558E+01	6.095E+01	3.750E+01	2.859E+01	2.075E+01	1.295E+01	1.050E+01	5.422E+00	6.414E+00	2.990E+00
179	8.299E+01	6.945E+01	5.710E+01	3.876E+01	3.265E+01	1.542E+01	1.807E+01	5.473E+00	9.142E+00	1.563E+00	5.584E+00	6.128E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	4.723E+08	4.759E+08	2.813E+08	2.834E+08	1.869E+08	1.883E+08	9.979E+07	1.006E+08	5.073E+07	5.112E+07	2.323E+07	2.342E+07
2	2.952E+07	2.995E+07	1.758E+07	1.784E+07	1.168E+07	1.185E+07	6.238E+06	6.330E+06	3.171E+06	3.218E+06	1.452E+06	1.474E+06
3	5.833E+06	5.955E+06	3.474E+06	3.548E+06	2.308E+06	2.357E+06	1.233E+06	1.259E+06	6.265E+05	6.399E+05	2.870E+05	2.931E+05
4	1.846E+06	1.897E+06	1.100E+06	1.130E+06	7.305E+05	7.508E+05	3.901E+05	4.010E+05	1.983E+05	2.039E+05	9.083E+04	9.338E+04
6	3.651E+05	3.800E+05	2.174E+05	2.264E+05	1.444E+05	1.504E+05	7.714E+04	8.036E+04	3.921E+04	4.085E+04	1.794E+04	1.871E+04
8	1.157E+05	1.221E+05	6.889E+04	7.278E+04	4.577E+04	4.836E+04	2.444E+04	2.584E+04	1.242E+04	1.313E+04	5.691E+03	6.017E+03
10	4.747E+04	5.092E+04	2.827E+04	3.035E+04	1.878E+04	2.017E+04	1.003E+04	1.078E+04	5.098E+03	5.478E+03	2.335E+03	2.510E+03
15	9.436E+03	1.061E+04	5.620E+03	6.327E+03	3.733E+03	4.206E+03	1.994E+03	2.247E+03	1.013E+03	1.143E+03	4.642E+02	5.235E+02
20	3.012E+03	3.585E+03	1.794E+03	2.138E+03	1.192E+03	1.422E+03	6.365E+02	7.598E+02	3.235E+02	3.864E+02	1.482E+02	1.770E+02
30	6.104E+02	8.258E+02	3.635E+02	4.929E+02	2.415E+02	3.278E+02	1.290E+02	1.752E+02	6.556E+01	8.911E+01	3.003E+01	4.083E+01
45	1.277E+02	2.076E+02	7.606E+01	1.239E+02	5.053E+01	8.240E+01	2.698E+01	4.406E+01	1.372E+01	2.241E+01	6.283E+00	1.027E+01
60	4.382E+01	8.086E+01	2.610E+01	4.825E+01	1.734E+01	3.208E+01	9.260E+00	1.715E+01	4.707E+00	8.722E+00	2.156E+00	3.996E+00
75	1.994E+01	3.858E+01	1.188E+01	2.301E+01	7.890E+00	1.529E+01	4.214E+00	8.171E+00	2.142E+00	4.155E+00	9.811E+01	1.903E+00
90	1.096E+01	2.031E+01	6.525E+00	1.209E+01	4.334E+00	8.031E+00	2.315E+00	4.289E+00	1.177E+00	2.180E+00	5.390E+01	9.884E+00
120	4.869E+00	5.997E+00	2.900E+00	3.546E+00	1.926E+00	2.347E+00	1.029E+00	1.249E+00	5.230E+01	6.336E+01	2.393E+01	2.899E+01
150	3.146E+00	1.329E+00	1.874E+00	7.574E+01	1.245E+00	4.917E+01	6.648E+01	2.569E+01	3.379E+01	1.289E+01	1.548E+01	5.862E+02
179	2.739E+00	1.543E+01	1.631E+00	5.593E+02	1.084E+00	2.505E+02	5.788E+01	7.322E+03	2.942E+01	1.965E+03	1.348E+01	4.460E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.327E+07	1.338E+07	5.995E+06	6.042E+06	3.400E+06	3.426E+06	2.187E+06	2.204E+06	1.122E+06	1.131E+06	5.522E+05	5.565E+05
2	8.298E+05	8.420E+05	3.747E+05	3.803E+05	2.125E+05	2.157E+05	1.367E+05	1.387E+05	7.014E+04	7.117E+04	3.451E+04	3.502E+04
3	1.640E+05	1.675E+05	7.404E+04	7.563E+04	4.199E+04	4.289E+04	2.701E+04	2.759E+04	1.386E+04	1.415E+04	6.819E+03	6.966E+03
4	5.189E+04	5.335E+04	2.344E+04	2.409E+04	1.329E+04	1.366E+04	8.548E+03	8.788E+03	4.386E+03	4.509E+03	2.158E+03	2.219E+03
6	1.026E+04	1.069E+04	4.634E+03	4.829E+03	2.628E+03	2.738E+03	1.690E+03	1.761E+03	8.673E+02	9.037E+02	4.268E+02	4.447E+02
8	3.251E+03	3.438E+03	1.468E+03	1.553E+03	8.327E+02	8.804E+02	5.356E+02	5.663E+02	2.748E+02	2.906E+02	1.352E+02	1.430E+02
10	1.334E+03	1.434E+03	6.025E+02	6.476E+02	3.417E+02	3.672E+02	2.198E+02	2.362E+02	1.128E+02	1.212E+02	5.549E+01	5.964E+01
15	2.652E+02	2.991E+02	1.198E+02	1.351E+02	6.793E+01	7.641E+01	4.369E+01	4.928E+01	2.242E+01	2.528E+01	1.103E+01	1.244E+01
20	8.467E+01	1.011E+02	3.824E+01	4.568E+01	2.168E+01	2.591E+01	1.395E+01	1.666E+01	7.156E+00	8.550E+00	3.522E+00	4.208E+00
30	1.716E+01	2.333E+01	7.748E+00	1.054E+01	4.394E+00	5.976E+00	2.826E+00	3.844E+00	1.450E+00	1.972E+00	7.136E+01	9.706E+00
45	3.590E+00	5.867E+00	1.621E+00	2.650E+00	9.193E+01	1.503E+00	5.913E+01	9.665E+01	3.034E+01	4.959E+01	1.493E+01	2.441E+01
60	1.232E+00	2.284E+00	5.563E+01	1.031E+00	3.155E+01	5.849E+01	2.029E+01	3.762E+01	1.041E+01	1.930E+01	5.123E+02	9.499E+02
75	5.605E+01	1.088E+00	2.531E+01	4.912E+01	1.436E+01	2.786E+01	9.233E+02	1.792E+01	4.738E+02	9.193E+02	2.332E+02	4.524E+02
90	3.079E+01	5.704E+01	1.391E+01	2.576E+01	7.886E+02	1.461E+01	5.072E+02	9.396E+02	2.603E+02	4.821E+02	1.281E+02	2.373E+02
120	1.369E+01	1.655E+01	6.181E+02	7.474E+02	3.505E+02	4.238E+02	2.254E+02	2.726E+02	1.157E+02	1.398E+02	5.693E+03	6.882E+03
150	8.843E+02	3.341E+02	3.994E+02	1.506E+02	2.265E+02	8.543E+03	1.457E+02	5.486E+03	7.475E+03	2.814E+03	3.678E+03	1.385E+03
179	7.700E+02	1.605E+04	3.477E+02	4.132E+05	1.972E+02	1.713E+05	1.268E+02	9.117E+06	6.508E+03	3.824E+06	3.203E+03	1.657E+06

HG (80)

(BARNs/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	7.433E+13	8.434E+15	6.374E+14	6.378E+14	3.589E+14	3.591E+14	1.598E+14	1.599E+14	9.007E+13	9.013E+13	5.776E+13	5.779E+13
2	8.956E+13	8.962E+13	3.984E+13	3.987E+13	2.243E+13	2.245E+13	9.990E+12	9.997E+12	5.630E+12	5.635E+12	3.610E+12	3.613E+12
3	1.770E+13	1.771E+13	7.872E+12	7.872E+12	4.433E+12	4.446E+12	1.974E+12	1.975E+12	1.112E+12	1.113E+12	7.133E+11	7.140E+11
4	5.601E+12	5.605E+12	2.492E+12	2.494E+12	1.403E+12	1.404E+12	6.248E+11	6.253E+11	3.521E+11	3.525E+11	2.258E+11	2.260E+11
6	1.108E+12	1.108E+12	4.927E+11	4.931E+11	2.774E+11	2.777E+11	1.235E+11	1.237E+11	6.962E+10	6.970E+10	4.465E+10	4.471E+10
8	3.509E+11	3.512E+11	1.561E+11	1.562E+11	8.790E+10	8.797E+10	3.914E+10	3.918E+10	2.206E+10	2.210E+10	1.415E+10	1.416E+10
10	1.440E+11	1.441E+11	6.406E+10	6.413E+10	3.607E+10	3.612E+10	1.606E+10	1.609E+10	9.053E+09	9.063E+09	5.805E+09	5.817E+09
15	2.863E+10	2.866E+10	1.273E+10	1.275E+10	7.170E+09	7.181E+09	3.193E+09	3.196E+09	1.800E+09	1.805E+09	1.154E+09	1.156E+09
20	9.138E+09	9.150E+09	4.065E+09	4.072E+09	2.289E+09	2.291E+09	1.019E+09	1.023E+09	5.745E+08	5.750E+08	3.684E+08	3.695E+08
30	1.852E+09	1.856E+09	8.238E+08	8.250E+08	4.638E+08	4.642E+08	2.065E+08	2.070E+08	1.164E+08	1.173E+08	7.464E+07	7.496E+07
45	3.874E+08	3.894E+08	1.724E+08	1.721E+08	9.704E+07	9.789E+07	4.321E+07	4.317E+07	2.436E+07	2.424E+07	1.562E+07	1.569E+07
60	1.329E+08	1.340E+08	5.914E+07	5.932E+07	3.330E+07	3.286E+07	1.483E+07	1.492E+07	8.358E+06	8.586E+06	5.359E+06	5.529E+06
75	6.050E+07	5.920E+07	2.692E+07	2.673E+07	1.515E+07	1.558E+07	6.748E+06	7.023E+06	3.803E+06	3.864E+06	2.439E+06	2.409E+06
90	3.324E+07	3.444E+07	1.479E+07	1.563E+07	8.325E+06	8.566E+06	3.707E+06	3.547E+06	2.089E+06	1.917E+06	1.340E+06	1.208E+06
120	1.477E+07	1.228E+07	6.571E+06	5.476E+06	3.700E+06	3.206E+06	1.648E+06	1.561E+06	9.286E+05	9.497E+05	5.955E+05	6.481E+05
150	9.545E+06	1.266E+07	4.246E+06	6.080E+06	2.391E+06	3.066E+06	1.065E+06	1.721E+06	6.000E+05	1.016E+06	3.848E+05	6.739E+05
179	8.310E+06	1.497E+07	3.697E+06	6.930E+06	2.082E+06	4.014E+06	9.270E+05	1.859E+06	5.224E+05	1.076E+06	3.350E+05	7.037E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	2.958E+13	2.960E+13	1.458E+13	1.459E+13	6.541E+12	6.546E+12	3.714E+12	3.717E+12	1.681E+12	1.683E+12	9.623E+11	9.637E+11
2	1.849E+12	1.851E+12	9.113E+11	9.123E+11	4.089E+11	4.094E+11	2.321E+11	2.325E+11	1.051E+11	1.053E+11	6.015E+10	6.031E+10
3	3.654E+11	3.658E+11	1.801E+11	1.803E+11	8.078E+10	8.092E+10	4.586E+10	4.595E+10	2.076E+10	2.082E+10	1.189E+10	1.193E+10
4	1.156E+11	1.158E+11	5.699E+10	5.709E+10	2.557E+10	2.562E+10	1.452E+10	1.456E+10	6.571E+09	6.594E+09	3.762E+09	3.777E+09
6	2.287E+10	2.290E+10	1.127E+10	1.129E+10	5.056E+09	5.071E+09	2.870E+09	2.882E+09	1.299E+09	1.305E+09	7.439E+08	7.481E+08
8	7.245E+09	7.263E+09	3.571E+09	3.578E+09	1.602E+09	1.609E+09	9.095E+08	9.135E+08	4.117E+08	4.138E+08	2.357E+08	2.378E+08
10	2.973E+09	2.979E+09	1.465E+09	1.470E+09	6.574E+08	6.606E+08	3.732E+08	3.747E+08	1.689E+08	1.702E+08	9.672E+07	9.798E+07
15	5.910E+08	5.931E+08	2.913E+08	2.929E+08	1.307E+08	1.311E+08	7.419E+07	7.473E+07	3.358E+07	3.417E+07	1.923E+07	1.962E+07
20	1.887E+08	1.899E+08	9.298E+07	9.316E+07	4.172E+07	4.203E+07	2.368E+07	2.409E+07	1.072E+07	1.096E+07	6.138E+06	6.255E+06
30	3.823E+07	3.820E+07	1.884E+07	1.904E+07	8.453E+06	8.611E+06	4.799E+06	4.906E+06	2.172E+06	2.190E+06	1.244E+06	1.245E+06
45	7.999E+06	8.186E+06	3.942E+06	4.038E+06	1.769E+06	1.772E+06	1.004E+06	9.906E+05	4.545E+05	4.479E+05	2.602E+05	2.616E+05
60	2.745E+06	2.785E+06	1.352E+06	1.330E+06	6.069E+05	5.860E+05	3.446E+05	3.354E+05	1.560E+05	1.595E+05	8.929E+04	9.653E+04
75	1.249E+06	1.188E+06	6.156E+05	5.776E+05	2.762E+05	2.676E+05	1.568E+05	1.597E+05	7.097E+04	7.939E+04	4.064E+04	4.898E+04
90	6.862E+05	6.232E+05	3.382E+05	3.225E+05	1.517E+05	1.585E+05	8.614E+04	9.709E+04	3.899E+04	4.909E+04	2.232E+04	3.031E+04
120	3.050E+05	3.645E+05	1.503E+05	1.974E+05	6.743E+04	9.762E+04	3.828E+04	5.889E+04	1.733E+04	2.863E+04	9.921E+03	1.705E+04
150	1.971E+05	3.619E+05	9.712E+04	1.864E+05	4.357E+04	8.710E+04	2.474E+04	5.051E+04	1.120E+04	2.322E+04	6.411E+03	1.328E+04
179	1.716E+05	3.705E+05	8.456E+04	1.871E+05	3.794E+04	8.565E+04	2.154E+04	4.896E+04	9.749E+03	2.206E+04	5.582E+03	1.242E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	6.266E+11	6.278E+11	3.304E+11	3.311E+11	1.698E+11	1.701E+11	8.986E+10	8.114E+10	4.841E+10	4.861E+10	2.392E+10	2.404E+10
2	3.917E+10	3.928E+10	2.066E+10	2.073E+10	1.060E+10	1.065E+10	5.055E+09	5.088E+09	3.026E+09	3.050E+09	1.495E+09	1.509E+09
3	7.739E+09	7.768E+09	4.081E+09	4.103E+09	2.095E+09	2.111E+09	9.987E+08	1.009E+09	5.979E+08	6.047E+08	2.954E+08	2.994E+08
4	2.450E+09	2.461E+09	1.292E+09	1.301E+09	6.631E+08	6.668E+08	3.161E+08	3.201E+08	1.892E+08	1.920E+08	9.350E+07	9.511E+07
6	4.843E+08	4.883E+08	2.554E+08	2.585E+08	1.311E+08	1.330E+08	6.251E+07	6.358E+07	3.742E+07	3.815E+07	1.849E+07	1.892E+07
8	1.535E+08	1.554E+08	8.093E+07	8.222E+07	4.154E+07	4.288E+07	1.981E+07	2.021E+07	1.186E+07	1.213E+07	5.858E+06	6.032E+06
10	6.298E+07	6.400E+07	3.321E+07	3.382E+07	1.705E+07	1.748E+07	8.127E+06	8.310E+06	4.865E+06	4.997E+06	2.404E+06	2.491E+06
15	1.252E+07	1.277E+07	6.602E+06	6.722E+06	3.389E+06	3.454E+06	1.616E+06	1.662E+06	9.672E+05	1.006E+06	4.779E+05	5.061E+05
20	3.996E+06	4.058E+06	2.108E+06	2.136E+06	1.082E+06	1.104E+06	5.158E+05	5.372E+05	3.088E+05	3.279E+05	1.526E+05	1.669E+05
30	8.098E+05	8.112E+05	4.271E+05	4.342E+05	2.192E+05	2.300E+05	1.045E+05	1.151E+05	6.256E+04	7.152E+04	3.091E+04	3.713E+04
45	1.694E+05	1.750E+05	8.935E+04	9.752E+04	4.587E+04	5.361E+04	2.187E+04	2.768E+04	1.309E+04	1.747E+04	6.468E+03	9.202E+03
60	5.814E+04	6.607E+04	3.066E+04	3.776E+04	1.574E+04	2.110E+04	7.503E+03	1.098E+04	4.492E+03	6.939E+03	2.219E+03	3.651E+03
75	2.646E+04	3.382E+04	1.395E+04	1.942E+04	7.163E+03	1.042E+04	3.415E+03	5.580E+03	2.044E+03	3.497E+03	1.010E+03	1.817E+03
90	1.453E+04	2.084E+04	7.665E+03	1.183E+04	3.935E+03	6.444E+03	1.876E+03	3.272E+03	1.123E+03	2.018E+03	5.548E+02	1.025E+03
120	6.460E+03	1.136E+04	3.407E+03	6.129E+03	1.749E+03	3.163E+03	8.337E+02	1.482E+03	4.991E+02	8.633E+02	2.466E+02	4.040E+02
150	4.174E+03	8.564E+03	2.201E+03	4.375E+03	1.130E+03	2.115E+03	5.387E+02	9.062E+02	3.225E+02	4.894E+02	1.593E+02	2.014E+02
179	3.634E+03	7.907E+03	1.917E+03	3.953E+03	9.838E+02	1.848E+03	4.690E+02	7.634E+02	2.808E+02	3.961E+02	1.387E+02	1.506E+02

HG (80)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.467E+10	1.475E+10	1.010E+10	1.016E+10	5.773E+09	5.811E+09	3.194E+09	3.218E+09	1.616E+09	1.629E+09	9.873E+08	9.951E+08
2	9.172E+08	9.269E+08	6.311E+08	6.383E+08	3.609E+08	3.664E+08	1.997E+08	2.023E+08	1.010E+08	1.024E+08	6.171E+07	6.259E+07
3	1.812E+08	1.839E+08	1.247E+08	1.267E+08	7.130E+07	7.257E+07	3.945E+07	4.020E+07	1.996E+07	2.036E+07	1.219E+07	1.244E+07
4	5.736E+07	5.846E+07	3.947E+07	4.029E+07	2.257E+07	2.309E+07	1.249E+07	1.280E+07	6.319E+06	6.484E+06	3.859E+06	3.963E+06
6	1.134E+07	1.165E+07	7.804E+06	8.033E+06	4.463E+06	4.610E+06	2.469E+06	2.558E+06	1.249E+06	1.298E+06	7.631E+05	7.934E+05
8	3.594E+06	3.719E+06	2.473E+06	2.568E+06	1.414E+06	1.476E+06	7.823E+05	8.203E+05	3.959E+05	4.165E+05	2.418E+05	2.548E+05
10	1.475E+06	1.539E+06	1.015E+06	1.064E+06	5.802E+05	6.130E+05	3.210E+05	3.412E+05	1.625E+05	1.734E+05	9.923E+04	1.061E+05
15	2.932E+05	3.146E+05	2.017E+05	2.185E+05	1.153E+05	1.265E+05	6.382E+04	7.067E+04	3.229E+04	3.603E+04	1.972E+04	2.208E+04
20	9.358E+04	1.044E+05	6.439E+04	7.283E+04	3.682E+04	4.237E+04	2.037E+04	2.376E+04	1.031E+04	1.214E+04	6.297E+03	7.451E+03
30	1.896E+04	2.348E+04	1.305E+04	1.648E+04	7.461E+03	9.660E+03	4.128E+03	5.445E+03	2.089E+03	2.794E+03	1.276E+03	1.717E+03
45	3.968E+03	5.859E+03	2.730E+03	4.128E+03	1.561E+03	2.478E+03	8.637E+02	1.372E+03	4.371E+02	7.052E+02	2.707E+02	4.337E+02
60	1.361E+03	2.329E+03	9.367E+02	1.632E+03	5.357E+02	9.574E+02	2.964E+02	5.398E+02	1.500E+02	2.769E+02	9.161E+01	1.701E+02
75	6.196E+02	1.145E+03	4.263E+02	8.008E+02	2.438E+02	4.663E+02	1.349E+02	2.613E+02	6.825E+01	1.334E+02	4.169E+01	8.180E+01
90	3.404E+02	6.355E+02	2.342E+02	4.405E+02	1.339E+02	2.531E+02	7.410E+01	1.403E+02	3.750E+01	7.106E+01	2.290E+01	4.340E+01
120	1.513E+02	2.368E+02	1.041E+02	1.571E+02	5.952E+01	8.577E+01	3.293E+01	4.502E+01	1.666E+01	2.190E+01	1.018E+01	1.313E+01
150	9.775E+01	1.060E+02	6.725E+01	6.422E+01	3.846E+01	3.015E+01	2.128E+01	1.368E+01	1.077E+01	5.733E+00	6.577E+00	3.164E+00
179	8.510E+01	7.315E+01	5.855E+01	4.083E+01	3.349E+01	1.625E+01	1.853E+01	5.769E+00	9.375E+00	1.648E+00	5.726E+00	6.460E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	4.843E+08	4.882E+08	2.884E+08	2.907E+08	1.916E+08	1.931E+08	1.023E+08	1.031E+08	5.202E+07	5.242E+07	2.383E+07	2.401E+07
2	3.027E+07	3.071E+07	1.863E+07	1.829E+07	1.198E+07	1.215E+07	6.397E+06	6.491E+06	3.252E+06	3.300E+06	1.489E+06	1.511E+06
3	5.982E+06	6.107E+06	3.563E+06	3.638E+06	2.367E+06	2.417E+06	1.264E+06	1.291E+06	6.425E+05	6.562E+05	2.943E+05	3.006E+05
4	1.693E+06	1.945E+06	1.128E+06	1.159E+06	7.491E+05	7.698E+05	4.001E+05	4.112E+05	2.034E+05	2.090E+05	9.314E+04	9.574E+04
6	3.744E+05	3.896E+05	2.230E+05	2.321E+05	1.481E+05	1.542E+05	7.910E+04	8.238E+04	4.021E+04	4.188E+04	1.842E+04	1.918E+04
8	1.186E+05	1.252E+05	7.065E+04	7.459E+04	4.693E+04	4.956E+04	2.506E+04	2.648E+04	1.274E+04	1.346E+04	5.836E+03	6.166E+03
10	4.868E+04	5.217E+04	2.899E+04	3.109E+04	1.926E+04	2.066E+04	1.029E+04	1.104E+04	5.228E+03	5.612E+03	2.395E+03	2.571E+03
15	9.676E+03	1.086E+04	5.763E+03	6.478E+03	3.828E+03	4.306E+03	2.045E+03	2.301E+03	1.039E+03	1.170E+03	4.760E+02	5.360E+02
20	3.889E+03	3.670E+03	1.840E+03	2.189E+03	1.222E+03	1.455E+03	6.527E+02	7.779E+02	3.318E+02	3.956E+02	1.520E+02	1.812E+02
30	6.29E+02	8.467E+02	3.728E+02	5.054E+02	2.478E+02	3.61E+02	1.323E+02	1.797E+02	6.723E+01	9.138E+01	3.079E+01	4.187E+01
45	1.314E+02	2.140E+02	7.800E+01	1.277E+02	5.181E+01	8.466E+01	2.767E+01	4.542E+01	1.407E+01	2.310E+01	6.443E+00	1.059E+01
60	4.494E+01	8.388E+01	2.676E+01	5.006E+01	1.778E+01	3.329E+01	9.495E+00	1.780E+01	4.827E+00	9.051E+00	2.211E+00	4.147E+00
75	2.045E+01	4.026E+01	1.218E+01	2.401E+01	8.091E+00	1.596E+01	4.321E+00	8.528E+00	2.197E+00	4.336E+00	1.006E+00	1.986E+00
90	1.123E+01	2.129E+01	6.691E+00	1.268E+01	4.445E+00	8.421E+00	2.374E+00	4.497E+00	1.207E+00	2.286E+00	5.527E+01	1.047E+00
120	4.993E+00	6.330E+00	2.974E+00	3.743E+00	1.975E+00	2.478E+00	1.055E+00	1.319E+00	5.363E+01	6.690E+01	2.456E+01	3.061E+01
150	3.226E+00	1.407E+00	1.922E+00	8.024E+01	1.277E+00	5.210E+01	6.817E+01	2.723E+01	3.465E+01	1.366E+01	1.587E+01	6.214E+02
179	2.809E+00	1.626E+01	1.673E+00	5.897E+02	1.111E+00	2.641E+02	5.936E+01	7.721E+03	3.017E+01	2.073E+03	1.382E+01	4.707E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.361E+07	1.372E+07	6.148E+06	6.195E+06	3.488E+06	3.513E+06	2.242E+06	2.260E+06	1.151E+06	1.160E+06	5.662E+05	5.706E+05
2	8.508E+05	8.635E+05	3.843E+05	3.900E+05	2.179E+05	2.211E+05	1.402E+05	1.422E+05	7.192E+04	7.298E+04	3.539E+04	3.592E+04
3	1.681E+05	1.717E+05	7.593E+04	7.756E+04	4.306E+04	4.398E+04	2.769E+04	2.829E+04	1.421E+04	1.452E+04	6.993E+03	7.143E+03
4	5.322E+04	5.470E+04	2.403E+04	2.470E+04	1.363E+04	1.401E+04	8.766E+03	9.011E+03	4.498E+03	4.624E+03	2.213E+03	2.275E+03
6	1.052E+04	1.096E+04	4.752E+03	4.950E+03	2.695E+03	2.807E+03	1.733E+03	1.805E+03	8.944E+02	9.264E+02	4.377E+02	4.559E+02
8	3.334E+03	3.523E+03	1.506E+03	1.591E+03	8.539E+02	9.023E+02	5.492E+02	5.803E+02	2.818E+02	2.978E+02	1.387E+02	1.465E+02
10	1.368E+03	1.469E+03	6.179E+02	6.634E+02	3.504E+02	3.762E+02	2.254E+02	2.420E+02	1.156E+02	1.242E+02	5.691E+01	6.110E+01
15	2.72E+02	3.063E+02	1.228E+02	1.383E+02	6.966E+01	7.844E+01	4.480E+01	5.045E+01	2.299E+01	2.589E+01	1.131E+01	1.274E+01
20	6.892E+01	1.036E+02	3.921E+01	4.677E+01	2.224E+01	2.652E+01	1.430E+01	1.706E+01	7.339E+00	8.753E+00	3.611E+00	4.308E+00
30	1.759E+01	2.393E+01	7.945E+00	1.081E+01	4.506E+00	6.128E+00	2.898E+00	3.942E+00	1.487E+00	2.022E+00	7.318E+01	9.953E+01
45	3.681E+00	6.049E+00	1.652E+00	2.732E+00	4.527E+01	1.549E+00	6.063E+01	9.966E+01	3.111E+01	5.114E+01	1.931E+01	2.517E+01
60	1.263E+00	2.369E+00	5.704E+01	1.070E+00	3.235E+01	6.049E+01	2.081E+01	3.904E+01	1.068E+01	2.003E+01	5.254E+02	9.857E+02
75	5.748E+01	1.135E+00	2.596E+01	5.125E+01	1.472E+01	2.907E+01	9.469E+02	1.870E+01	4.858E+02	9.504E+02	2.391E+02	4.722E+02
90	3.158E+01	5.982E+01	1.426E+01	2.702E+01	8.087E+02	1.532E+02	5.202E+02	9.854E+02	2.669E+02	5.056E+02	1.313E+02	2.488E+02
120	1.403E+01	1.748E+01	6.338E+02	7.832E+02	3.594E+02	4.475E+02	2.312E+02	2.878E+02	1.186E+02	1.477E+02	5.838E+03	7.267E+03
150	9.069E+02	3.541E+02	4.096E+02	1.596E+02	2.323E+02	9.045E+03	1.494E+02	5.815E+03	7.665E+03	2.983E+03	3.772E+03	1.468E+03
179	7.896E+02	1.695E+04	3.566E+02	4.368E+05	2.022E+02	1.812E+05	1.301E+02	9.952E+06	6.674E+03	4.052E+06	3.284E+03	1.757E+06

TI (A1)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.469E+15	1.470E+15	6.534E+14	6.538E+14	3.679E+14	3.681E+14	1.638E+14	1.639E+14	9.234E+13	9.240E+13	5.921E+13	5.925E+13
2	9.182E+13	9.187E+13	4.085E+13	4.087E+13	2.300E+13	2.301E+13	1.024E+13	1.025E+13	5.772E+12	5.776E+12	3.701E+12	3.704E+12
3	1.814E+13	1.815E+13	8.070E+12	8.076E+12	4.544E+12	4.547E+12	2.024E+12	2.025E+12	1.140E+12	1.141E+12	7.313E+11	7.320E+11
4	5.742E+12	5.746E+12	2.554E+12	2.556E+12	1.438E+12	1.439E+12	6.405E+11	6.410E+11	3.610E+11	3.613E+11	2.315E+11	2.317E+11
6	1.135E+12	1.136E+12	5.051E+11	5.055E+11	2.844E+11	2.846E+11	1.266E+11	1.268E+11	7.138E+10	7.145E+10	4.577E+10	4.584E+10
8	3.597E+11	3.600E+11	1.600E+11	1.602E+11	9.011E+10	9.019E+10	4.013E+10	4.017E+10	2.262E+10	2.265E+10	1.450E+10	1.452E+10
10	1.476E+11	1.477E+11	6.567E+10	6.575E+10	3.698E+10	3.702E+10	1.647E+10	1.649E+10	9.280E+09	9.292E+09	5.951E+09	5.963E+09
15	2.935E+10	2.938E+10	1.306E+10	1.308E+10	7.351E+09	7.360E+09	3.273E+09	3.276E+09	1.845E+09	1.851E+09	1.183E+09	1.185E+09
20	9.368E+09	9.379E+09	4.168E+09	4.173E+09	2.347E+09	2.349E+09	1.045E+09	1.049E+09	5.889E+08	5.895E+08	3.776E+08	3.786E+08
30	1.898E+09	1.903E+09	8.445E+08	8.453E+08	4.755E+08	4.772E+08	2.117E+08	2.120E+08	1.193E+08	1.203E+08	7.652E+07	7.692E+07
45	3.972E+08	3.994E+08	1.767E+08	1.763E+08	9.949E+07	1.003E+08	4.430E+07	4.431E+07	2.497E+07	2.483E+07	1.601E+07	1.606E+07
60	1.363E+08	1.371E+08	6.063E+07	6.095E+07	3.414E+07	3.370E+07	1.520E+07	1.525E+07	8.568E+06	8.794E+06	5.494E+06	5.675E+06
75	6.202E+07	6.079E+07	2.759E+07	2.730E+07	1.554E+07	1.563E+07	6.918E+06	7.218E+06	3.899E+06	3.980E+06	2.500E+06	2.581E+06
90	3.407E+07	3.518E+07	1.516E+07	1.608E+07	8.535E+06	8.814E+06	3.801E+06	3.656E+06	2.142E+06	1.969E+06	1.373E+06	1.237E+06
120	1.514E+07	1.255E+07	6.737E+06	5.565E+06	3.793E+06	3.260E+06	1.689E+06	1.582E+06	9.520E+05	9.638E+05	6.414E+05	6.376E+05
150	9.785E+06	1.297E+07	4.353E+06	6.244E+06	2.451E+06	3.769E+06	1.091E+06	1.774E+06	6.151E+05	1.049E+06	3.944E+05	6.963E+05
179	8.519E+06	1.550E+07	3.790E+06	7.183E+06	2.134E+06	4.163E+06	9.503E+05	1.930E+06	5.356E+05	1.118E+06	3.434E+05	7.316E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	3.033E+13	3.035E+13	1.494E+13	1.496E+13	6.705E+12	6.711E+12	3.807E+12	3.811E+12	1.723E+12	1.725E+12	9.865E+11	9.879E+11
2	1.896E+12	1.897E+12	9.342E+11	9.352E+11	4.191E+11	4.197E+11	2.380E+11	2.383E+11	1.077E+11	1.079E+11	6.167E+10	6.183E+10
3	3.745E+11	3.750E+11	1.846E+11	1.848E+11	8.281E+10	8.296E+10	4.702E+10	4.711E+10	2.128E+10	2.135E+10	1.218E+10	1.223E+10
4	1.186E+11	1.187E+11	5.842E+10	5.852E+10	2.621E+10	2.626E+10	1.486E+10	1.492E+10	6.736E+09	6.761E+09	3.857E+09	3.872E+09
6	2.344E+10	2.348E+10	1.155E+10	1.158E+10	5.183E+09	5.198E+09	2.943E+09	2.955E+09	1.332E+09	1.337E+09	7.626E+08	7.668E+08
8	7.427E+09	7.446E+09	3.660E+09	3.668E+09	1.642E+09	1.650E+09	9.324E+08	9.366E+08	4.220E+08	4.242E+08	2.416E+08	2.437E+08
10	3.048E+09	3.055E+09	1.502E+09	1.507E+09	6.739E+08	6.774E+08	3.826E+08	3.841E+08	1.732E+08	1.745E+08	9.915E+07	1.004E+08
15	6.059E+08	6.078E+08	2.986E+08	3.004E+08	1.340E+08	1.344E+08	7.666E+07	7.657E+07	3.443E+07	3.502E+07	1.971E+07	2.013E+07
20	1.934E+08	1.948E+08	9.532E+07	9.554E+07	4.277E+07	4.305E+07	2.428E+07	2.468E+07	1.099E+07	1.125E+07	6.292E+06	6.421E+06
30	3.919E+07	3.915E+07	1.931E+07	1.949E+07	8.666E+06	8.822E+06	4.920E+06	5.038E+06	2.227E+06	2.248E+06	1.275E+06	1.277E+06
45	8.200E+06	8.387E+06	4.041E+06	4.147E+06	1.813E+06	1.821E+06	1.029E+06	1.017E+06	4.659E+05	4.582E+05	2.668E+05	2.672E+05
60	2.814E+06	2.864E+06	1.387E+06	1.367E+06	6.222E+05	5.992E+05	3.532E+05	3.426E+05	1.599E+05	1.626E+05	9.154E+04	9.834E+04
75	1.281E+06	1.220E+06	6.311E+05	5.909E+05	2.831E+05	2.757E+05	1.608E+05	1.625E+05	7.276E+04	8.087E+04	4.166E+04	4.998E+04
90	7.035E+05	6.353E+05	3.467E+05	3.279E+05	1.555E+05	1.611E+05	8.831E+04	9.887E+04	3.997E+04	5.015E+04	2.288E+04	3.104E+04
120	3.126E+05	3.715E+05	1.541E+05	2.019E+05	6.913E+04	1.002E+05	3.925E+04	6.059E+04	1.776E+04	2.955E+04	1.017E+04	1.764E+04
150	2.020E+05	3.745E+05	9.956E+04	1.932E+05	4.467E+04	9.047E+04	2.536E+04	5.253E+04	1.148E+04	2.420E+04	6.572E+03	1.386E+04
179	1.759E+05	3.855E+05	8.668E+04	1.950E+05	3.889E+04	8.944E+04	2.208E+04	5.112E+04	9.994E+03	2.306E+04	5.722E+03	1.300E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	6.424E+11	6.436E+11	3.388E+11	3.395E+11	1.739E+11	1.744E+11	8.290E+10	8.318E+10	4.963E+10	4.983E+10	2.452E+10	2.464E+10
2	4.015E+10	4.027E+10	2.118E+10	2.125E+10	1.087E+10	1.092E+10	5.182E+09	5.217E+09	3.102E+09	3.127E+09	1.533E+09	1.547E+09
3	7.934E+09	7.964E+09	4.184E+09	4.206E+09	2.148E+09	2.164E+09	1.024E+09	1.034E+09	6.129E+08	6.199E+08	3.028E+08	3.070E+08
4	2.511E+09	2.523E+09	1.324E+09	1.334E+09	6.798E+08	6.846E+08	3.241E+08	3.282E+08	1.940E+08	1.969E+08	1.585E+07	1.597E+07
6	4.965E+08	5.005E+08	2.619E+08	2.650E+08	1.344E+08	1.364E+08	6.408E+07	6.520E+07	3.836E+07	3.911E+07	1.895E+07	1.940E+07
8	1.573E+08	1.592E+08	8.297E+07	8.430E+07	4.259E+07	4.337E+07	2.030E+07	2.072E+07	1.215E+07	1.244E+07	6.006E+06	6.182E+06
10	6.456E+07	6.561E+07	3.405E+07	3.469E+07	1.748E+07	1.782E+07	8.332E+06	8.520E+06	4.988E+06	5.122E+06	2.464E+06	2.552E+06
15	1.283E+07	1.310E+07	6.768E+06	6.897E+06	3.474E+06	3.542E+06	1.656E+06	1.702E+06	9.915E+05	1.030E+06	4.899E+05	5.179E+05
20	4.097E+06	4.165E+06	2.161E+06	2.190E+06	1.109E+06	1.131E+06	5.287E+05	5.496E+05	3.165E+05	3.353E+05	1.564E+05	1.706E+05
30	8.302E+05	8.311E+05	4.378E+05	4.440E+05	2.247E+05	2.349E+05	1.071E+05	1.175E+05	6.414E+04	7.303E+04	3.169E+04	3.794E+04
45	1.737E+05	1.785E+05	9.160E+04	9.943E+04	4.702E+04	5.470E+04	2.242E+04	2.829E+04	1.342E+04	1.787E+04	6.630E+03	9.435E+03
60	5.960E+04	6.734E+04	3.143E+04	3.855E+04	1.613E+04	2.169E+04	7.692E+03	1.127E+04	4.605E+03	7.137E+03	2.275E+03	3.765E+03
75	2.712E+04	3.456E+04	1.430E+04	1.990E+04	7.343E+03	1.112E+04	3.500E+03	5.757E+03	2.096E+03	3.616E+03	1.035E+03	1.884E+03
90	1.490E+04	2.139E+04	7.858E+03	1.218E+04	4.034E+03	6.608E+03	1.923E+03	3.392E+03	1.151E+03	2.096E+03	5.688E+02	1.068E+03
120	6.623E+03	1.178E+04	3.493E+03	6.368E+03	1.793E+03	3.265E+03	8.547E+02	1.547E+03	5.116E+02	0.931E+02	2.528E+02	4.236E+02
150	4.279E+03	8.945E+03	2.257E+03	4.577E+03	1.158E+03	2.216E+03	5.523E+02	9.508E+02	3.306E+02	5.141E+02	1.633E+02	2.118E+02
179	3.726E+03	8.282E+03	1.965E+03	4.146E+03	1.009E+03	1.961E+03	4.808E+02	8.024E+02	2.878E+02	4.167E+02	1.422E+02	1.585E+02

TI (RI)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.504E+10	1.513E+10	1.035E+10	1.041E+10	5.919E+09	5.967E+09	3.275E+09	3.297E+09	1.657E+09	1.670E+09	1.012E+09	1.020E+09
2	9.403E+08	9.503E+08	6.469E+08	6.543E+08	3.700E+08	3.746E+08	2.047E+08	2.074E+08	1.036E+08	1.050E+08	6.327E+07	6.417E+07
3	1.858E+08	1.886E+08	1.278E+08	1.299E+08	7.310E+07	7.439E+07	4.044E+07	4.121E+07	2.047E+07	2.088E+07	1.250E+07	1.276E+07
4	5.880E+07	5.993E+07	4.046E+07	4.130E+07	2.314E+07	2.367E+07	1.280E+07	1.312E+07	6.478E+06	6.647E+06	3.957E+06	4.062E+06
6	1.163E+07	1.194E+07	8.000E+06	8.234E+06	4.575E+06	4.755E+06	2.531E+06	2.622E+06	1.281E+06	1.330E+06	7.823E+05	8.131E+05
8	3.684E+06	3.811E+06	2.535E+06	2.632E+06	1.450E+06	1.513E+06	8.020E+05	8.405E+05	4.059E+05	4.267E+05	2.479E+05	2.611E+05
10	1.512E+06	1.577E+06	1.040E+06	1.090E+06	5.948E+05	6.279E+05	3.291E+05	3.494E+05	1.665E+05	1.776E+05	1.017E+05	1.087E+05
15	3.005E+05	3.219E+05	2.068E+05	2.236E+05	1.182E+05	1.294E+05	6.542E+04	7.232E+04	3.311E+04	3.687E+04	2.022E+04	2.260E+04
20	9.594E+04	1.067E+05	6.601E+04	7.447E+04	3.775E+04	4.333E+04	2.089E+04	2.430E+04	1.057E+04	1.242E+04	6.455E+03	7.623E+03
30	1.944E+04	2.401E+04	1.338E+04	1.686E+04	7.649E+03	9.887E+03	4.232E+03	5.576E+03	2.142E+03	2.862E+03	1.308E+03	1.759E+03
45	4.067E+03	6.014E+03	2.799E+03	4.241E+03	1.600E+03	2.467E+03	8.854E+02	1.412E+03	4.481E+02	7.261E+02	2.737E+02	4.467E+02
60	1.396E+03	2.395E+03	9.603E+02	1.686E+03	5.492E+02	9.967E+02	3.038E+02	5.590E+02	1.538E+02	2.869E+02	9.391E+01	1.764E+02
75	6.352E+02	1.189E+03	4.370E+02	8.323E+02	2.499E+02	4.853E+02	1.383E+02	2.722E+02	6.997E+01	1.391E+02	4.274E+01	8.530E+01
90	3.489E+02	6.640E+02	2.401E+02	4.600E+02	1.373E+02	2.627E+02	7.596E+01	1.469E+02	3.844E+01	7.444E+01	2.348E+01	4.548E+01
120	1.551E+02	2.486E+02	1.067E+02	1.651E+02	6.102E+01	8.974E+01	3.376E+01	4.743E+01	1.708E+01	2.310E+01	1.043E+01	1.385E+01
150	1.002E+02	1.116E+02	6.895E+01	6.766E+01	3.943E+01	3.160E+01	2.181E+01	1.445E+01	1.104E+01	6.061E+00	6.743E+00	3.347E+00
179	8.724E+01	7.704E+01	6.003E+01	4.301E+01	3.433E+01	1.712E+01	1.899E+01	6.080E+00	9.611E+00	1.737E+00	5.870E+00	6.811E+00
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	4.965E+08	5.005E+08	2.957E+08	2.981E+08	1.964E+08	1.980E+08	1.049E+08	1.058E+08	5.333E+07	5.377E+07	2.443E+07	2.463E+07
2	3.104E+07	3.149E+07	1.848E+07	1.875E+07	1.228E+07	1.246E+07	6.558E+06	6.654E+06	3.333E+06	3.383E+06	1.527E+06	1.549E+06
3	6.132E+06	6.261E+06	3.652E+06	3.729E+06	2.426E+06	2.478E+06	1.296E+06	1.323E+06	6.586E+05	6.727E+05	3.017E+05	3.081E+05
4	1.941E+06	1.994E+06	1.156E+06	1.188E+06	7.679E+05	7.891E+05	4.101E+05	4.215E+05	2.085E+05	2.143E+05	9.548E+04	9.814E+04
6	3.838E+05	3.992E+05	2.286E+05	2.379E+05	1.518E+05	1.580E+05	8.109E+04	8.442E+04	4.122E+04	4.292E+04	1.888E+04	1.966E+04
8	1.216E+05	1.282E+05	7.242E+04	7.642E+04	4.811E+04	5.078E+04	2.569E+04	2.713E+04	1.306E+04	1.379E+04	5.982E+03	6.317E+03
10	4.990E+04	5.343E+04	2.972E+04	3.184E+04	1.974E+04	2.116E+04	1.054E+04	1.131E+04	5.360E+03	5.748E+03	2.455E+03	2.633E+03
15	9.920E+03	1.112E+04	5.908E+03	6.630E+03	3.925E+03	4.407E+03	2.096E+03	2.355E+03	1.065E+03	1.197E+03	4.880E+02	5.486E+02
20	3.167E+03	3.755E+03	1.886E+03	2.240E+03	1.253E+03	1.469E+03	6.691E+02	7.959E+02	3.401E+02	4.048E+02	1.558E+02	1.854E+02
30	6.417E+02	8.676E+02	3.822E+02	5.179E+02	2.539E+02	3.444E+02	1.356E+02	1.841E+02	6.892E+01	9.365E+01	3.157E+01	4.291E+01
45	1.343E+02	2.204E+02	7.996E+01	1.316E+02	5.312E+01	8.754E+01	2.837E+01	4.681E+01	1.442E+01	2.381E+01	6.605E+00	1.091E+01
60	4.607E+01	8.697E+01	2.744E+01	5.191E+01	1.823E+01	3.452E+01	9.734E+00	1.846E+01	4.948E+00	9.386E+00	2.266E+00	4.301E+00
75	2.097E+01	4.199E+01	1.249E+01	2.504E+01	8.295E+00	1.665E+01	4.430E+00	8.896E+00	2.252E+00	4.524E+00	1.031E+00	2.072E+00
90	1.152E+01	2.231E+01	6.859E+00	1.329E+01	4.557E+00	8.828E+00	2.434E+00	4.715E+00	1.237E+00	2.397E+00	5.666E+00	1.098E+00
120	5.119E+00	6.681E+00	3.049E+00	3.952E+00	2.025E+00	2.616E+00	1.082E+00	1.392E+00	5.498E+00	7.063E+00	2.518E+00	3.232E+00
150	3.308E+00	1.490E+00	1.970E+00	8.499E+00	1.309E+00	5.520E+00	6.989E+00	2.885E+00	3.553E+00	1.448E+00	1.627E+00	6.586E+00
179	2.880E+00	1.715E+00	1.715E+00	6.218E+00	1.139E+00	2.785E+00	6.085E+00	8.142E+00	3.093E+00	2.186E+00	1.417E+00	4.967E+00
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.396E+07	1.407E+07	6.302E+06	6.354E+06	3.574E+06	3.604E+06	2.299E+06	2.318E+06	1.180E+06	1.189E+06	5.805E+05	5.852E+05
2	8.724E+05	8.852E+05	3.940E+05	3.998E+05	2.234E+05	2.267E+05	1.437E+05	1.458E+05	7.373E+04	7.482E+04	3.628E+04	3.682E+04
3	1.724E+05	1.761E+05	7.784E+04	7.951E+04	4.414E+04	4.509E+04	2.839E+04	2.900E+04	1.457E+04	1.488E+04	7.169E+03	7.323E+03
4	5.456E+04	5.637E+04	2.464E+04	2.532E+04	1.397E+04	1.436E+04	8.986E+03	9.237E+03	4.611E+03	4.740E+03	2.269E+03	2.323E+03
6	1.379E+04	1.423E+04	4.872E+03	5.073E+03	2.763E+03	2.877E+03	1.777E+03	1.850E+03	9.118E+02	9.494E+02	4.487E+02	4.672E+02
8	3.418E+03	3.609E+03	1.544E+03	1.630E+03	8.754E+02	9.264E+02	5.630E+02	5.946E+02	2.889E+02	3.051E+02	1.422E+02	1.501E+02
10	1.403E+03	1.504E+03	6.334E+02	6.794E+02	3.592E+02	3.863E+02	2.310E+02	2.478E+02	1.185E+02	1.272E+02	5.834E+01	6.258E+01
15	2.788E+02	3.134E+02	1.259E+02	1.416E+02	7.141E+01	8.028E+01	4.593E+01	5.163E+01	2.357E+01	2.669E+01	1.160E+01	1.304E+01
20	8.901E+01	1.060E+02	4.020E+01	4.786E+01	2.280E+01	2.714E+01	1.466E+01	1.746E+01	7.523E+00	8.957E+00	3.702E+00	4.408E+00
30	1.804E+01	2.452E+01	8.145E+00	1.107E+01	4.619E+00	6.280E+00	2.971E+00	4.039E+00	1.524E+00	2.073E+00	7.502E+00	1.020E+00
45	3.774E+00	6.233E+00	1.704E+00	2.815E+00	9.665E+00	1.567E+00	6.216E+00	1.027E+00	3.189E+00	5.266E+00	1.570E+00	2.593E+00
60	1.295E+00	2.457E+00	5.848E+00	1.110E+00	3.316E+00	6.295E+00	2.133E+00	4.049E+00	1.094E+00	2.077E+00	5.386E+00	1.022E+00
75	5.893E+00	1.184E+00	2.661E+00	5.348E+00	1.509E+00	3.033E+00	9.707E+00	1.951E+00	4.981E+00	1.001E+00	2.451E+00	4.926E+00
90	3.237E+01	6.272E+01	1.462E+01	2.832E+01	8.291E+00	1.606E+01	5.332E+00	1.033E+01	2.736E+00	5.301E+00	1.346E+00	2.19E+00
120	1.439E+01	1.846E+01	6.498E+00	8.333E+00	3.685E+00	4.755E+00	2.370E+00	3.039E+00	1.216E+00	1.559E+00	5.984E+00	7.673E+00
150	9.297E+02	3.753E+02	4.199E+02	1.692E+02	2.381E+02	9.587E+03	1.531E+02	6.164E+03	7.858E+02	3.162E+03	3.867E+02	1.556E+03
179	8.094E+02	1.790E+04	3.655E+02	4.616E+05	2.073E+02	1.917E+05	1.333E+02	1.022E+05	6.841E+03	4.293E+06	3.367E+03	1.862E+06

PB (R2)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.505E+15	1.506E+15	6.697E+14	6.701E+14	3.771E+14	3.773E+14	1.679E+14	1.680E+14	9.463E+13	9.469E+13	6.068E+13	6.072E+13
2	9.410E+13	9.415E+13	4.186E+13	4.189E+13	2.357E+13	2.359E+13	1.050E+13	1.050E+13	5.915E+12	5.920E+12	3.793E+12	3.796E+12
3	1.859E+13	1.860E+13	8.271E+12	8.277E+12	4.657E+12	4.660E+12	2.074E+12	2.075E+12	1.169E+12	1.170E+12	7.495E+11	7.502E+11
4	5.885E+12	5.888E+12	2.618E+12	2.620E+12	1.474E+12	1.475E+12	6.564E+11	6.570E+11	3.699E+11	3.703E+11	2.372E+11	2.375E+11
6	1.164E+12	1.164E+12	5.176E+11	5.180E+11	2.915E+11	2.917E+11	1.298E+11	1.299E+11	7.315E+10	7.322E+10	4.691E+10	4.698E+10
8	3.687E+11	3.690E+11	1.640E+11	1.641E+11	9.235E+10	9.243E+10	4.112E+10	4.117E+10	2.318E+10	2.322E+10	1.486E+10	1.488E+10
10	1.513E+11	1.514E+11	6.731E+10	6.738E+10	3.790E+10	3.794E+10	1.688E+10	1.690E+10	9.511E+09	9.524E+09	6.099E+09	6.110E+09
15	3.007E+10	3.011E+10	1.338E+10	1.340E+10	7.533E+09	7.541E+09	3.355E+09	3.358E+09	1.891E+09	1.897E+09	1.212E+09	1.215E+09
20	9.601E+09	9.609E+09	4.271E+09	4.276E+09	2.405E+09	2.408E+09	1.071E+09	1.075E+09	6.036E+08	6.043E+08	3.870E+08	3.878E+08
30	1.945E+09	1.950E+09	8.655E+08	8.659E+08	4.873E+08	4.892E+08	2.170E+08	2.172E+08	1.223E+08	1.232E+08	7.842E+07	7.890E+07
45	4.070E+08	4.094E+08	1.811E+08	1.805E+08	1.020E+08	1.027E+08	4.540E+07	4.547E+07	2.559E+07	2.543E+07	1.641E+07	1.643E+07
60	1.397E+08	1.403E+08	6.214E+07	6.261E+07	3.499E+07	3.455E+07	1.558E+07	1.559E+07	8.781E+06	9.002E+06	5.630E+06	5.822E+06
75	6.356E+07	6.244E+07	2.828E+07	2.787E+07	1.592E+07	1.628E+07	7.090E+06	7.415E+06	3.996E+06	4.047E+06	2.562E+06	2.555E+06
90	3.492E+07	3.590E+07	1.553E+07	1.652E+07	8.747E+06	9.087E+06	3.895E+06	3.768E+06	2.195E+06	2.023E+06	1.408E+06	1.267E+06
120	1.552E+07	1.284E+07	6.904E+06	5.655E+06	3.887E+06	3.293E+06	1.731E+06	1.602E+06	9.756E+05	9.772E+05	6.256E+05	6.689E+05
150	1.003E+07	1.328E+07	4.461E+06	6.408E+06	2.512E+06	3.812E+06	1.119E+06	1.827E+06	6.304E+05	1.082E+06	4.042E+05	7.191E+05
179	8.731E+06	1.605E+07	3.884E+06	7.442E+06	2.187E+06	4.316E+06	9.739E+05	2.003E+06	5.489E+05	1.161E+06	3.520E+05	7.003E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	3.108E+13	3.110E+13	1.532E+13	1.533E+13	6.872E+12	6.878E+12	3.901E+12	3.905E+12	1.766E+12	1.768E+12	1.011E+12	1.013E+12
2	1.943E+12	1.944E+12	9.574E+11	9.585E+11	4.296E+11	4.301E+11	2.439E+11	2.443E+11	1.104E+11	1.106E+11	6.320E+10	6.336E+10
3	3.838E+11	3.843E+11	1.892E+11	1.894E+11	8.487E+10	8.502E+10	4.819E+10	4.828E+10	2.181E+10	2.188E+10	1.249E+10	1.253E+10
4	1.215E+11	1.217E+11	5.987E+10	5.997E+10	2.686E+10	2.691E+10	1.525E+10	1.529E+10	6.903E+09	6.929E+09	3.952E+09	3.968E+09
6	2.402E+10	2.406E+10	1.184E+10	1.187E+10	5.312E+09	5.326E+09	3.016E+09	3.029E+09	1.365E+09	1.371E+09	7.815E+08	7.858E+08
8	7.612E+09	7.631E+09	3.751E+09	3.759E+09	1.683E+09	1.691E+09	9.556E+08	9.601E+08	4.325E+08	4.346E+08	2.476E+08	2.497E+08
10	3.124E+09	3.131E+09	1.539E+09	1.544E+09	6.906E+08	6.944E+08	3.921E+08	3.937E+08	1.775E+08	1.787E+08	1.016E+08	1.029E+08
15	6.209E+08	6.227E+08	3.060E+08	3.080E+08	1.373E+08	1.377E+08	7.795E+07	7.843E+07	3.528E+07	3.588E+07	2.020E+07	2.064E+07
20	1.982E+08	1.996E+08	9.769E+07	9.795E+07	4.383E+07	4.408E+07	2.488E+07	2.528E+07	1.126E+07	1.153E+07	6.449E+06	6.589E+06
30	4.017E+07	4.012E+07	1.979E+07	1.995E+07	8.881E+06	9.104E+06	5.042E+06	5.171E+06	2.282E+06	2.309E+06	1.307E+06	1.310E+06
45	8.404E+06	8.589E+06	4.142E+06	4.258E+06	1.858E+06	1.872E+06	1.055E+06	1.043E+06	4.775E+05	4.688E+05	2.734E+05	2.728E+05
60	2.884E+06	2.945E+06	1.421E+06	1.405E+06	6.376E+05	6.139E+05	3.620E+05	3.500E+05	1.638E+05	1.656E+05	9.381E+04	1.001E+05
75	1.312E+06	1.253E+06	6.467E+05	6.045E+05	2.902E+05	2.779E+05	1.647E+05	1.654E+05	7.457E+04	8.233E+04	4.269E+04	5.096E+04
90	7.209E+05	6.477E+05	3.553E+05	3.33E+05	1.594E+05	1.637E+05	9.050E+04	1.006E+05	4.096E+04	5.120E+04	2.345E+04	3.177E+04
120	3.204E+05	3.784E+05	1.579E+05	2.063E+05	7.085E+04	1.028E+05	4.022E+04	6.230E+04	1.821E+04	3.049E+04	1.042E+04	1.825E+04
150	2.070E+05	3.874E+05	1.020E+05	2.002E+05	4.578E+04	9.393E+04	2.599E+04	5.462E+04	1.176E+04	2.521E+04	6.735E+03	1.446E+04
179	1.803E+05	4.010E+05	8.884E+04	2.030E+05	3.986E+04	9.317E+04	2.263E+04	5.336E+04	1.024E+04	2.411E+04	5.864E+03	1.360E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	6.583E+11	6.596E+11	3.472E+11	3.479E+11	1.782E+11	1.787E+11	8.496E+10	8.525E+10	5.086E+10	5.107E+10	2.513E+10	2.525E+10
2	4.115E+10	4.128E+10	2.170E+10	2.178E+10	1.114E+10	1.119E+10	5.311E+09	5.346E+09	3.179E+09	3.204E+09	1.571E+09	1.586E+09
3	8.131E+09	8.162E+09	4.288E+09	4.310E+09	2.201E+09	2.217E+09	1.049E+09	1.060E+09	6.282E+08	6.354E+08	3.104E+08	3.146E+08
4	2.574E+09	2.586E+09	1.357E+09	1.367E+09	6.967E+08	7.037E+08	3.321E+08	3.364E+08	1.988E+08	2.018E+08	9.824E+07	9.994E+07
6	5.089E+08	5.128E+08	2.684E+08	2.715E+08	1.378E+08	1.398E+08	6.567E+07	6.684E+07	3.931E+07	4.009E+07	1.942E+07	1.988E+07
8	1.612E+08	1.632E+08	8.503E+07	8.641E+07	4.365E+07	4.446E+07	2.081E+07	2.124E+07	1.246E+07	1.275E+07	6.155E+06	6.335E+06
10	6.616E+07	6.724E+07	3.489E+07	3.557E+07	1.791E+07	1.828E+07	8.539E+06	8.734E+06	5.112E+06	5.249E+06	2.526E+06	2.615E+06
15	1.315E+07	1.344E+07	6.936E+06	7.074E+06	3.561E+06	3.631E+06	1.697E+06	1.743E+06	1.016E+06	1.054E+06	5.321E+05	5.299E+05
20	4.199E+06	4.274E+06	2.214E+06	2.246E+06	1.137E+06	1.158E+06	5.419E+05	5.621E+05	3.244E+05	3.428E+05	1.603E+05	1.743E+05
30	8.508E+05	8.513E+05	4.487E+05	4.540E+05	2.303E+05	2.369E+05	1.098E+05	1.199E+05	6.573E+04	7.453E+04	3.248E+04	3.874E+04
45	1.780E+05	1.821E+05	9.388E+04	1.013E+05	4.819E+04	5.576E+04	2.297E+04	2.888E+04	1.375E+04	1.828E+04	6.795E+03	9.666E+03
60	6.108E+04	6.860E+04	3.221E+04	3.933E+04	1.654E+04	2.08E+04	7.883E+03	1.156E+04	4.719E+03	7.334E+03	2.332E+03	3.879E+03
75	2.780E+04	3.530E+04	1.466E+04	2.039E+04	7.525E+03	1.143E+04	3.587E+03	5.936E+03	2.148E+03	3.737E+03	1.061E+03	1.953E+03
90	1.527E+04	2.194E+04	8.053E+03	1.254E+04	4.134E+03	6.916E+03	1.971E+03	3.515E+03	1.180E+03	2.177E+03	5.829E+02	1.112E+03
120	6.787E+03	1.220E+04	3.579E+03	6.614E+03	1.837E+03	3.430E+03	8.759E+02	1.615E+03	5.244E+02	9.445E+02	2.591E+02	4.440E+02
150	4.386E+03	9.340E+03	2.313E+03	4.786E+03	1.187E+03	2.321E+03	5.660E+02	9.975E+02	3.388E+02	5.399E+02	1.674E+02	2.228E+02
179	3.818E+03	8.674E+03	2.014E+03	4.346E+03	1.034E+03	2.048E+03	4.928E+02	8.433E+02	2.950E+02	4.382E+02	1.458E+02	1.668E+02

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.542E+10	1.550E+10	1.061E+10	1.067E+10	6.066E+09	6.106E+09	3.358E+09	3.379E+09	1.698E+09	1.711E+09	1.037E+09	1.045E+09
2	9.636E+08	9.739E+08	6.630E+08	6.705E+08	3.792E+08	3.839E+08	2.098E+08	2.126E+08	1.062E+08	1.076E+08	6.484E+07	6.577E+07
3	1.904E+08	1.933E+08	1.310E+08	1.331E+08	7.491E+07	7.625E+07	4.145E+07	4.224E+07	2.097E+07	2.140E+07	1.281E+07	1.307E+07
4	6.026E+07	6.143E+07	4.146E+07	4.233E+07	2.371E+07	2.425E+07	1.312E+07	1.344E+07	6.639E+06	6.812E+06	4.055E+06	4.163E+06
6	1.192E+07	1.223E+07	8.199E+06	8.438E+06	4.689E+06	4.841E+06	2.594E+06	2.686E+06	1.313E+06	1.362E+06	8.018E+05	8.330E+05
8	3.776E+06	3.904E+06	2.598E+06	2.696E+06	1.486E+06	1.549E+06	8.219E+05	8.608E+05	4.159E+05	4.371E+05	2.540E+05	2.674E+05
10	1.549E+06	1.615E+06	1.066E+06	1.117E+06	6.096E+05	6.429E+05	3.373E+05	3.577E+05	1.707E+05	1.818E+05	1.042E+05	1.113E+05
15	3.080E+05	3.293E+05	2.119E+05	2.287E+05	1.212E+05	1.324E+05	6.705E+04	7.397E+04	3.393E+04	3.717E+04	2.072E+04	2.312E+04
20	9.832E+04	1.091E+05	6.765E+04	7.611E+04	3.869E+04	4.429E+04	2.140E+04	2.484E+04	1.083E+04	1.270E+04	6.616E+03	7.796E+03
30	1.992E+04	2.453E+04	1.371E+04	1.724E+04	7.839E+03	1.011E+04	4.337E+03	5.706E+03	2.195E+03	2.930E+03	1.341E+03	1.801E+03
45	4.168E+03	6.169E+03	2.868E+03	4.354E+03	1.640E+03	2.567E+03	9.074E+02	1.453E+03	4.592E+02	7.473E+02	2.805E+02	4.598E+02
60	1.430E+03	2.472E+03	9.842E+02	1.742E+03	5.628E+02	1.025E+03	3.114E+02	5.787E+02	1.576E+02	2.972E+02	9.624E+01	1.827E+02
75	6.509E+02	1.234E+03	4.479E+02	8.648E+02	2.561E+02	5.048E+02	1.417E+02	2.834E+02	7.171E+01	1.449E+02	4.380E+01	8.891E+01
90	3.576E+02	6.925E+02	2.460E+02	4.803E+02	1.407E+02	2.767E+02	7.785E+01	1.537E+02	3.939E+01	7.795E+01	2.406E+01	4.764E+01
120	1.589E+02	2.610E+02	1.094E+02	1.735E+02	6.253E+01	9.443E+01	3.466E+01	4.996E+01	1.751E+01	2.436E+01	1.069E+01	1.461E+01
150	1.027E+02	1.175E+02	7.066E+01	7.128E+01	4.041E+01	3.354E+01	2.236E+01	1.525E+01	1.131E+01	6.408E+00	4.910E+00	3.442E+00
179	8.941E+01	8.113E+01	6.152E+01	4.531E+01	3.518E+01	1.804E+01	1.946E+01	6.408E+00	9.850E+00	1.831E+00	6.016E+00	7.180E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	5.088E+08	5.130E+08	3.030E+08	3.055E+08	2.013E+08	2.030E+08	1.075E+08	1.084E+08	5.465E+07	5.510E+07	2.503E+07	2.524E+07
2	3.181E+07	3.227E+07	1.894E+07	1.922E+07	1.258E+07	1.277E+07	6.721E+06	6.820E+06	3.416E+06	3.467E+06	1.565E+06	1.588E+06
3	6.284E+06	6.416E+06	3.743E+06	3.822E+06	2.486E+06	2.519E+06	1.328E+06	1.356E+06	6.750E+05	6.894E+05	3.092E+05	3.158E+05
4	1.989E+06	2.043E+06	1.185E+06	1.217E+06	7.870E+05	8.087E+05	4.203E+05	4.320E+05	2.136E+05	2.196E+05	9.786E+04	1.006E+05
6	3.933E+05	4.090E+05	2.343E+05	2.437E+05	1.556E+05	1.619E+05	8.311E+04	8.650E+04	4.224E+04	4.397E+04	1.935E+04	2.014E+04
8	1.246E+05	1.313E+05	7.422E+04	7.827E+04	4.931E+04	5.201E+04	2.633E+04	2.778E+04	1.339E+04	1.412E+04	6.131E+03	6.470E+03
10	5.114E+04	5.470E+04	3.046E+04	3.260E+04	2.023E+04	2.147E+04	1.081E+04	1.157E+04	5.493E+03	5.885E+03	2.516E+03	2.696E+03
15	1.017E+04	1.137E+04	6.055E+03	6.782E+03	4.022E+03	4.508E+03	2.148E+03	2.409E+03	1.092E+03	1.225E+03	5.001E+02	5.612E+02
20	3.245E+03	3.840E+03	1.933E+03	2.291E+03	1.284E+03	1.523E+03	6.857E+02	8.140E+02	3.486E+02	4.140E+02	1.597E+02	1.897E+02
30	6.576E+02	8.885E+02	3.916E+02	5.304E+02	2.502E+02	3.527E+02	1.389E+02	1.886E+02	7.063E+01	9.592E+01	3.235E+01	4.395E+01
45	1.376E+02	2.270E+02	8.194E+01	1.355E+02	5.444E+01	9.014E+01	2.907E+01	4.820E+01	1.478E+01	2.452E+01	6.769E+00	1.123E+01
60	4.721E+01	9.013E+01	2.812E+01	5.380E+01	1.868E+01	3.578E+01	9.976E+00	1.913E+01	5.071E+00	9.730E+00	2.323E+00	4.458E+00
75	2.149E+01	4.378E+01	1.280E+01	2.611E+01	8.501E+00	1.716E+01	4.540E+00	9.277E+00	2.308E+00	4.718E+00	1.057E+00	2.161E+00
90	1.180E+01	2.338E+01	7.030E+00	1.393E+01	4.670E+00	9.253E+00	2.494E+00	4.942E+00	1.268E+00	2.512E+00	5.807E+01	1.151E+00
120	5.246E+00	7.051E+00	3.124E+00	4.171E+00	2.076E+00	2.761E+00	1.108E+00	1.470E+00	5.634E+01	7.457E+01	2.581E+01	3.412E+01
150	3.390E+00	1.578E+00	2.019E+00	9.003E+01	1.341E+00	5.848E+01	7.163E+01	3.057E+01	3.641E+01	1.535E+01	1.668E+01	6.980E+02
179	2.951E+00	1.908E+01	1.758E+00	6.556E+02	1.168E+00	2.917E+02	6.236E+01	8.586E+03	3.170E+01	2.306E+03	1.452E+01	5.241E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.430E+07	1.442E+07	6.459E+06	6.512E+06	3.663E+06	3.693E+06	2.356E+06	2.375E+06	1.209E+06	1.219E+06	5.949E+05	5.998E+05
2	8.940E+05	9.073E+05	4.038E+05	4.097E+05	2.290E+05	2.324E+05	1.473E+05	1.494E+05	7.556E+04	7.668E+04	3.719E+04	3.774E+04
3	1.766E+05	1.804E+05	7.977E+04	8.148E+04	4.524E+04	4.621E+04	2.913E+04	2.972E+04	1.493E+04	1.525E+04	7.347E+03	7.505E+03
4	5.591E+04	5.747E+04	2.525E+04	2.595E+04	1.432E+04	1.472E+04	9.210E+03	9.467E+03	4.726E+03	4.857E+03	2.326E+03	2.390E+03
6	1.106E+04	1.151E+04	4.993E+03	5.197E+03	2.831E+03	2.947E+03	1.821E+03	1.896E+03	9.344E+02	9.727E+02	4.598E+02	4.787E+02
8	3.503E+03	3.697E+03	1.582E+03	1.670E+03	8.971E+02	9.468E+02	5.770E+02	6.090E+02	2.961E+02	3.125E+02	1.457E+02	1.538E+02
10	1.437E+03	1.540E+03	6.492E+02	6.956E+02	3.681E+02	3.945E+02	2.368E+02	2.537E+02	1.215E+02	1.302E+02	5.979E+01	6.407E+01
15	2.857E+02	3.206E+02	1.290E+02	1.448E+02	7.318E+01	8.213E+01	4.707E+01	5.282E+01	2.415E+01	2.710E+01	1.189E+01	1.334E+01
20	9.122E+01	1.084E+02	4.120E+01	4.894E+01	2.336E+01	2.776E+01	1.503E+01	1.785E+01	7.710E+00	9.161E+00	3.794E+00	4.508E+00
30	1.848E+01	2.511E+01	8.347E+00	1.134E+01	4.734E+00	6.432E+00	3.045E+00	4.137E+00	1.562E+00	2.123E+00	7.688E+01	1.045E+00
45	3.867E+00	6.419E+00	1.747E+00	2.899E+00	9.905E+00	1.644E+00	6.370E+01	1.058E+00	3.269E+01	5.427E+01	1.609E+01	2.670E+01
60	1.327E+00	2.547E+00	5.993E+01	1.151E+00	3.399E+01	6.525E+01	2.186E+01	4.197E+01	1.122E+01	2.153E+01	5.520E+02	1.060E+01
75	6.039E+01	1.235E+00	2.727E+01	5.578E+01	1.547E+01	3.143E+01	9.948E+02	2.034E+01	5.104E+02	1.044E+01	2.512E+02	5.137E+02
90	3.318E+01	6.574E+01	1.498E+01	2.969E+01	8.497E+02	1.684E+01	5.465E+02	1.083E+01	2.804E+02	5.557E+02	1.386E+02	2.734E+02
120	1.475E+01	1.949E+01	6.659E+02	8.797E+02	3.776E+02	4.988E+02	2.424E+02	3.208E+02	1.246E+02	1.646E+02	6.133E+03	8.101E+03
150	9.528E+02	3.978E+02	4.303E+02	1.793E+02	2.440E+02	1.016E+02	1.569E+02	6.533E+03	8.053E+03	3.351E+03	3.963E+03	1.649E+03
179	8.295E+02	1.889E+04	3.746E+02	4.879E+05	2.125E+02	2.028E+05	1.366E+02	1.082E+05	7.011E+03	4.549E+06	3.450E+03	1.975E+06

BI (A3)

(BARNES/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.542E+15	1.543E+15	6.861E+14	6.865E+14	3.863E+14	3.865E+14	1.720E+14	1.721E+14	9.695E+13	9.702E+13	6.217E+13	6.221E+13
2	9.641E+13	9.646E+13	4.289E+13	4.292E+13	2.415E+13	2.416E+13	1.075E+13	1.076E+13	6.061E+12	6.065E+12	3.886E+12	3.889E+12
3	1.905E+13	1.906E+13	8.474E+12	8.480E+12	4.771E+12	4.775E+12	2.125E+12	2.126E+12	1.197E+12	1.198E+12	7.678E+11	7.686E+11
4	6.029E+12	6.033E+12	2.682E+12	2.684E+12	1.510E+12	1.511E+12	6.725E+11	6.731E+11	3.790E+11	3.794E+11	2.430E+11	2.433E+11
6	1.192E+12	1.193E+12	5.303E+11	5.307E+11	2.986E+11	2.989E+11	1.330E+11	1.331E+11	7.494E+10	7.502E+10	4.806E+10	4.813E+10
8	3.777E+11	3.780E+11	1.680E+11	1.682E+11	9.462E+10	9.471E+10	4.213E+10	4.218E+10	2.375E+10	2.379E+10	1.523E+10	1.525E+10
10	1.550E+11	1.551E+11	6.896E+10	6.903E+10	3.883E+10	3.887E+10	1.729E+10	1.731E+10	9.744E+09	9.759E+09	6.248E+09	6.259E+09
15	3.081E+10	3.084E+10	1.371E+10	1.373E+10	7.718E+09	7.725E+09	3.437E+09	3.441E+09	1.937E+09	1.943E+09	1.242E+09	1.245E+09
20	9.837E+09	9.843E+09	4.376E+09	4.379E+09	2.444E+09	2.448E+09	1.097E+09	1.101E+09	6.184E+08	6.194E+08	3.965E+08	3.972E+08
30	1.993E+09	1.997E+09	8.867E+08	8.868E+08	4.993E+08	5.014E+08	2.223E+08	2.224E+08	1.253E+08	1.262E+08	8.035E+07	8.090E+07
45	4.170E+08	4.194E+08	1.855E+08	1.849E+08	1.045E+08	1.052E+08	4.652E+07	4.666E+07	2.622E+07	2.605E+07	1.681E+07	1.680E+07
60	1.431E+08	1.434E+08	6.366E+07	6.429E+07	3.584E+07	3.544E+07	1.596E+07	1.593E+07	8.496E+06	8.209E+06	5.769E+06	5.969E+06
75	6.512E+07	6.415E+07	2.897E+07	2.844E+07	1.631E+07	1.642E+07	7.264E+06	7.612E+06	4.094E+06	4.217E+06	2.625E+06	2.630E+06
90	3.578E+07	3.661E+07	1.592E+07	1.697E+07	8.961E+06	9.366E+06	3.991E+06	3.885E+06	2.249E+06	2.079E+06	1.442E+06	1.298E+06
120	1.590E+07	1.314E+07	7.074E+06	5.747E+06	3.983E+06	3.356E+06	1.774E+06	1.621E+06	9.996E+05	9.900E+05	6.410E+05	6.787E+05
150	1.027E+07	1.359E+07	4.571E+06	6.572E+06	2.574E+06	3.916E+06	1.146E+06	1.881E+06	6.459E+05	1.115E+06	4.142E+05	7.423E+05
179	8.945E+06	1.661E+07	3.980E+06	7.708E+06	2.241E+06	4.473E+06	9.978E+05	2.078E+06	5.623E+05	1.205E+06	3.606E+05	7.899E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	3.184E+13	3.187E+13	1.569E+13	1.571E+13	7.040E+12	7.047E+12	3.097E+12	4.001E+12	1.609E+12	1.811E+12	1.036E+12	1.038E+12
2	1.990E+12	1.992E+12	9.809E+11	9.820E+11	4.401E+11	4.407E+11	2.499E+11	2.503E+11	1.131E+11	1.133E+11	6.475E+10	6.492E+10
3	3.933E+11	3.937E+11	1.938E+11	1.940E+11	8.695E+10	8.711E+10	4.937E+10	4.946E+10	2.234E+10	2.241E+10	1.279E+10	1.284E+10
4	1.245E+11	1.246E+11	6.134E+10	6.144E+10	2.752E+10	2.748E+10	1.563E+10	1.567E+10	7.673E+09	7.100E+09	4.049E+09	4.066E+09
6	2.461E+10	2.465E+10	1.213E+10	1.216E+10	5.442E+09	5.447E+09	3.090E+09	3.103E+09	1.398E+09	1.405E+09	8.007E+08	8.050E+08
8	7.799E+09	7.818E+09	3.843E+09	3.851E+09	1.724E+09	1.732E+09	9.790E+08	9.839E+08	4.431E+08	4.453E+08	2.537E+08	2.558E+08
10	3.208E+09	3.209E+09	1.577E+09	1.581E+09	7.076E+08	7.116E+08	4.017E+08	4.035E+08	1.818E+08	1.830E+08	1.041E+08	1.054E+08
15	6.362E+08	6.378E+08	3.135E+08	3.156E+08	1.407E+08	1.411E+08	7.986E+07	8.031E+07	3.615E+07	3.675E+07	2.070E+07	2.115E+07
20	2.031E+08	2.046E+08	1.001E+08	1.004E+08	4.490E+07	4.513E+07	2.549E+07	2.588E+07	1.154E+07	1.183E+07	6.607E+06	6.760E+06
30	4.115E+07	4.111E+07	2.028E+07	2.042E+07	9.099E+06	9.358E+06	5.166E+06	5.306E+06	2.338E+06	2.370E+06	1.339E+06	1.343E+06
45	8.610E+06	8.791E+06	4.243E+06	4.369E+06	1.904E+06	1.953E+06	1.081E+06	1.071E+06	4.692E+05	4.796E+05	2.801E+05	2.784E+05
60	2.955E+06	3.027E+06	1.456E+06	1.444E+06	6.533E+05	6.249E+05	3.709E+05	3.575E+05	1.679E+05	1.687E+05	9.611E+04	1.019E+05
75	1.345E+06	1.288E+06	6.626E+05	6.184E+05	2.973E+05	2.841E+05	1.688E+05	1.682E+05	7.640E+04	8.377E+04	4.374E+04	5.193E+04
90	7.386E+05	6.603E+05	3.640E+05	3.387E+05	1.633E+05	1.663E+05	9.272E+04	1.023E+05	4.197E+04	5.222E+04	2.403E+04	3.250E+04
120	3.283E+05	3.950E+05	1.618E+05	2.106E+05	7.258E+04	1.053E+05	4.121E+04	6.402E+04	1.865E+04	3.145E+04	1.068E+04	1.885E+04
150	2.121E+05	4.006E+05	1.045E+05	2.074E+05	4.690E+04	9.749E+04	2.663E+04	5.677E+04	1.205E+04	2.625E+04	6.901E+03	1.507E+04
179	1.847E+05	4.171E+05	9.102E+04	2.114E+05	4.083E+04	9.712E+04	2.318E+04	5.568E+04	1.049E+04	2.519E+04	6.008E+03	1.423E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	6.745E+11	6.758E+11	3.557E+11	3.565E+11	1.826E+11	1.831E+11	8.704E+10	8.734E+10	5.211E+10	5.232E+10	2.575E+10	2.589E+10
2	4.216E+10	4.128E+10	2.223E+10	2.231E+10	1.141E+10	1.147E+10	5.441E+09	5.477E+09	3.257E+09	3.283E+09	1.609E+09	1.625E+09
3	8.330E+09	8.362E+09	4.393E+09	4.415E+09	2.255E+09	2.271E+09	1.075E+09	1.086E+09	6.436E+08	6.510E+08	3.180E+08	3.224E+08
4	2.637E+09	2.649E+09	1.390E+09	1.400E+09	7.138E+08	7.209E+08	3.403E+08	3.447E+08	2.037E+08	2.068E+08	1.006E+08	1.024E+08
6	5.214E+08	5.253E+08	2.749E+08	2.782E+08	1.411E+08	1.433E+08	6.728E+07	6.850E+07	4.028E+07	4.109E+07	1.990E+07	2.037E+07
8	1.652E+08	1.671E+08	8.712E+07	8.854E+07	4.472E+07	4.567E+07	2.132E+07	2.177E+07	1.276E+07	1.307E+07	6.306E+06	6.490E+06
10	6.779E+07	6.889E+07	3.375E+07	3.446E+07	1.835E+07	1.874E+07	8.748E+06	8.951E+06	5.237E+06	5.378E+06	2.588E+06	2.678E+06
15	1.348E+07	1.378E+07	7.106E+06	7.255E+06	3.648E+06	3.752E+06	1.739E+06	1.785E+06	1.041E+06	1.079E+06	5.144E+05	5.421E+05
20	4.302E+06	4.385E+06	2.269E+06	2.302E+06	1.165E+06	1.186E+06	5.552E+05	5.748E+05	3.323E+05	3.503E+05	1.642E+05	1.781E+05
30	8.717E+05	8.720E+05	4.597E+05	4.641E+05	2.360E+05	2.449E+05	1.125E+05	1.223E+05	6.734E+04	7.603E+04	3.327E+04	3.954E+04
45	1.824E+05	1.856E+05	9.618E+04	1.032E+05	4.937E+04	5.682E+04	2.354E+04	2.947E+04	1.409E+04	1.867E+04	6.962E+03	9.896E+03
60	6.258E+04	6.984E+04	3.300E+04	4.010E+04	1.694E+04	2.256E+04	8.976E+03	1.185E+04	4.435E+03	7.531E+03	2.389E+03	3.994E+03
75	2.848E+04	3.603E+04	1.502E+04	2.087E+04	7.710E+03	1.173E+04	3.475E+03	6.117E+03	2.200E+03	3.859E+03	1.087E+03	2.022E+03
90	1.565E+04	2.249E+04	8.251E+03	1.290E+04	4.235E+03	7.137E+03	2.019E+03	3.640E+03	1.209E+03	2.259E+03	5.972E+02	1.157E+03
120	6.954E+03	1.264E+04	3.667E+03	6.867E+03	1.982E+03	3.570E+03	8.974E+02	1.686E+03	5.372E+02	9.875E+02	2.654E+02	4.532E+02
150	4.493E+03	9.750E+03	2.370E+03	5.004E+03	1.216E+03	2.440E+03	5.799E+02	1.046E+03	3.471E+02	5.869E+02	1.715E+02	2.343E+02
179	3.912E+03	9.081E+03	2.063E+03	4.558E+03	1.059E+03	2.149E+03	5.049E+02	8.862E+02	3.022E+02	4.609E+02	1.493E+02	1.756E+02

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.579E+10	1.588E+10	1.087E+10	1.093E+10	6.21E+09	6.25E+09	3.438E+09	3.462E+09	1.740E+09	1.753E+09	1.063E+09	1.071E+09
2	9.873E+08	9.979E+08	6.793E+08	6.870E+08	3.885E+08	3.933E+08	2.149E+08	2.178E+08	1.088E+08	1.103E+08	6.643E+07	6.738E+07
3	1.951E+08	1.981E+08	1.342E+08	1.364E+08	7.675E+07	7.812E+07	4.246E+07	4.328E+07	2.149E+07	2.192E+07	1.313E+07	1.340E+07
4	6.174E+07	6.294E+07	4.248E+07	4.337E+07	2.429E+07	2.445E+07	1.344E+07	1.377E+07	6.802E+06	6.979E+06	4.154E+06	4.265E+06
6	1.221E+07	1.253E+07	8.400E+06	8.644E+06	4.804E+06	4.960E+06	2.658E+06	2.752E+06	1.345E+06	1.395E+06	8.215E+05	8.532E+05
8	3.868E+06	3.999E+06	2.662E+06	2.761E+06	1.522E+06	1.587E+06	8.421E+05	8.815E+05	4.261E+05	4.475E+05	2.603E+05	2.738E+05
10	1.587E+06	1.653E+06	1.092E+06	1.143E+06	6.246E+05	6.581E+05	3.456E+05	3.662E+05	1.749E+05	1.861E+05	1.068E+05	1.139E+05
15	3.155E+05	3.368E+05	2.171E+05	2.339E+05	1.242E+05	1.354E+05	6.869E+04	7.564E+04	3.476E+04	3.857E+04	2.123E+04	2.364E+04
20	1.007E+05	1.114E+05	6.931E+04	7.775E+04	3.964E+04	4.525E+04	2.193E+04	2.539E+04	1.110E+04	1.298E+04	6.778E+03	7.968E+03
30	2.041E+04	2.505E+04	1.404E+04	1.761E+04	8.031E+03	1.036E+04	4.443E+03	5.835E+03	2.249E+03	2.997E+03	1.373E+03	1.843E+03
45	4.271E+03	6.324E+03	2.938E+03	4.467E+03	1.680E+03	2.436E+03	9.297E+02	1.493E+03	4.705E+02	7.685E+02	2.874E+02	4.730E+02
60	1.465E+03	2.549E+03	1.008E+03	1.798E+03	5.765E+02	1.049E+03	3.190E+02	5.987E+02	1.614E+02	3.077E+02	9.861E+01	1.892E+02
75	6.669E+02	1.280E+03	4.589E+02	9.981E+02	2.624E+02	5.249E+02	1.452E+02	2.950E+02	7.347E+01	1.509E+02	4.487E+01	9.263E+01
90	3.664E+02	7.220E+02	2.521E+02	5.013E+02	1.442E+02	2.892E+02	7.976E+01	1.608E+02	4.036E+01	8.161E+01	2.465E+01	4.989E+01
120	1.628E+02	2.739E+02	1.120E+02	1.823E+02	6.407E+01	9.935E+01	3.545E+01	5.263E+01	1.794E+01	2.568E+01	1.396E+01	1.541E+01
150	1.058E+02	1.237E+02	7.239E+01	7.509E+01	4.140E+01	3.537E+01	2.291E+01	1.611E+01	1.159E+01	6.775E+00	7.080E+00	3.747E+00
179	9.161E+01	8.544E+01	6.303E+01	4.773E+01	3.604E+01	1.901E+01	1.994E+01	6.754E+00	1.009E+01	1.930E+00	6.164E+00	7.576E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	5.213E+08	5.256E+08	3.105E+08	3.130E+08	2.063E+08	2.080E+08	1.102E+08	1.111E+08	5.599E+07	5.646E+07	2.565E+07	2.586E+07
2	3.259E+07	3.306E+07	1.941E+07	1.969E+07	1.289E+07	1.308E+07	6.886E+06	6.988E+06	3.500E+06	3.552E+06	1.603E+06	1.627E+06
3	6.439E+06	6.574E+06	3.835E+06	3.916E+06	2.547E+06	2.602E+06	1.360E+06	1.390E+06	6.916E+05	7.064E+05	3.168E+05	3.235E+05
4	2.038E+06	2.093E+06	1.214E+06	1.247E+06	8.063E+05	8.248E+05	4.306E+05	4.426E+05	2.189E+05	2.250E+05	1.003E+05	1.030E+05
6	4.030E+05	4.189E+05	2.400E+05	2.496E+05	1.594E+05	1.658E+05	8.515E+04	8.859E+04	4.328E+04	4.504E+04	1.982E+04	2.063E+04
8	1.277E+05	1.345E+05	7.605E+04	8.014E+04	5.052E+04	5.325E+04	2.698E+04	2.845E+04	1.371E+04	1.446E+04	6.281E+03	6.625E+03
10	5.239E+04	5.598E+04	3.121E+04	3.337E+04	2.073E+04	2.217E+04	1.107E+04	1.185E+04	5.628E+03	6.023E+03	2.578E+03	2.759E+03
15	1.042E+04	1.163E+04	6.203E+03	6.935E+03	4.121E+03	4.610E+03	2.201E+03	2.463E+03	1.119E+03	1.253E+03	5.124E+02	5.738E+02
20	3.325E+03	3.925E+03	1.980E+03	2.342E+03	1.316E+03	1.557E+03	7.026E+02	8.321E+02	3.571E+02	4.232E+02	1.636E+02	1.939E+02
30	6.737E+02	9.093E+02	4.013E+02	5.428E+02	2.666E+02	3.610E+02	1.424E+02	1.930E+02	7.236E+01	9.817E+01	3.314E+01	4.498E+01
45	1.410E+02	2.335E+02	8.396E+01	1.395E+02	5.577E+01	9.275E+01	2.799E+01	4.960E+01	1.514E+01	2.523E+01	6.935E+00	1.156E+01
60	4.837E+01	9.336E+01	2.861E+01	5.574E+01	1.914E+01	3.707E+01	1.022E+01	1.982E+01	5.195E+00	1.008E+01	2.380E+00	4.619E+00
75	2.201E+01	4.562E+01	1.311E+01	2.722E+01	8.709E+00	1.809E+01	4.651E+00	9.671E+00	2.364E+00	4.918E+00	1.083E+00	2.253E+00
90	1.209E+01	2.449E+01	7.202E+00	1.459E+01	4.784E+00	9.695E+00	2.555E+00	5.178E+00	1.299E+00	2.632E+00	5.949E+00	1.206E+00
120	5.375E+00	7.440E+00	3.201E+00	4.401E+00	2.126E+00	2.914E+00	1.136E+00	1.551E+00	5.773E+00	7.871E+00	2.644E+00	3.601E+00
150	3.473E+00	1.670E+00	2.068E+00	9.536E+00	1.374E+00	6.196E+00	7.338E+00	3.239E+00	3.730E+00	1.626E+00	1.709E+00	7.397E+00
179	3.024E+00	1.906E+00	1.801E+00	6.912E+00	1.196E+00	3.097E+00	6.389E+00	9.055E+00	3.248E+00	2.432E+00	1.488E+00	5.531E+00
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.465E+07	1.477E+07	6.618E+06	6.672E+06	3.753E+06	3.784E+06	2.414E+06	2.434E+06	1.239E+06	1.249E+06	6.095E+05	6.145E+05
2	9.160E+05	9.296E+05	4.137E+05	4.198E+05	2.346E+05	2.381E+05	1.509E+05	1.531E+05	7.742E+04	7.857E+04	3.810E+04	3.867E+04
3	1.810E+05	1.849E+05	8.173E+04	8.348E+04	4.635E+04	4.734E+04	2.931E+04	3.045E+04	1.530E+04	1.562E+04	7.528E+03	7.689E+03
4	5.728E+04	5.888E+04	2.587E+04	2.659E+04	1.467E+04	1.508E+04	9.436E+03	9.698E+03	4.842E+03	4.970E+03	2.383E+03	2.449E+03
6	1.133E+04	1.179E+04	5.115E+03	5.323E+03	2.901E+03	3.019E+03	1.866E+03	1.942E+03	9.573E+02	9.943E+02	4.711E+02	4.903E+02
8	3.589E+03	3.785E+03	1.621E+03	1.709E+03	9.192E+02	9.694E+02	5.912E+02	6.235E+02	3.033E+02	3.149E+02	1.493E+02	1.574E+02
10	1.473E+03	1.576E+03	6.651E+02	7.120E+02	3.772E+02	4.038E+02	2.426E+02	2.597E+02	1.245E+02	1.332E+02	6.126E+01	6.557E+01
15	2.928E+02	3.279E+02	1.322E+02	1.481E+02	7.498E+01	8.308E+01	4.822E+01	5.401E+01	2.474E+01	2.772E+01	1.218E+01	1.364E+01
20	9.346E+01	1.108E+02	4.221E+01	5.003E+01	2.394E+01	2.837E+01	1.539E+01	1.825E+01	7.899E+00	9.364E+00	3.887E+00	4.608E+00
30	1.894E+01	2.570E+01	8.552E+00	1.161E+01	4.850E+00	6.584E+00	3.119E+00	4.235E+00	1.601E+00	2.173E+00	7.877E+00	1.069E+00
45	3.962E+00	6.606E+00	1.789E+00	2.984E+00	1.015E+00	1.692E+00	6.527E+00	1.088E+00	3.349E+00	5.585E+00	1.648E+00	2.748E+00
60	1.360E+00	2.639E+00	6.140E+00	1.192E+00	3.482E+00	1.671E+00	2.240E+00	1.438E+00	1.149E+00	2.331E+00	5.655E+00	1.098E+00
75	6.187E+00	1.287E+00	2.794E+00	3.815E+00	1.585E+00	3.208E+00	1.019E+00	1.212E+00	5.230E+00	1.088E+00	2.574E+00	5.356E+00
90	3.399E+00	1.889E+00	1.535E+00	3.111E+00	8.705E+00	1.744E+00	5.599E+00	1.135E+00	2.873E+00	5.823E+00	1.414E+00	2.865E+00
120	1.511E+00	2.057E+00	6.822E+00	9.286E+00	3.869E+00	5.246E+00	2.488E+00	3.387E+00	1.277E+00	1.738E+00	6.284E+00	8.551E+00
150	9.762E+00	4.216E+00	4.408E+00	1.900E+00	2.500E+00	1.077E+00	1.608E+00	6.924E+00	8.251E+00	3.552E+00	4.060E+00	1.748E+00
179	8.499E+00	1.995E+00	3.838E+00	5.157E+00	2.177E+00	2.145E+00	1.400E+00	1.145E+00	7.183E+00	4.820E+00	3.535E+00	2.094E+00

PO (A4)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.580E+15	1.580E+15	7.027E+14	7.032E+14	3.957E+14	3.959E+14	1.762E+14	1.763E+14	9.930E+13	9.937E+13	6.388E+13	6.372E+13
2	9.874E+13	9.880E+13	4.393E+13	4.396E+13	2.473E+13	2.475E+13	1.101E+13	1.102E+13	6.207E+12	6.212E+12	3.980E+12	3.984E+12
3	1.951E+13	1.952E+13	8.679E+12	8.685E+12	4.887E+12	4.891E+12	2.176E+12	2.178E+12	1.226E+12	1.227E+12	7.865E+11	7.872E+11
4	6.175E+12	6.179E+12	2.747E+12	2.749E+12	1.547E+12	1.548E+12	6.888E+11	6.894E+11	3.882E+11	3.886E+11	2.488E+11	2.492E+11
6	1.221E+12	1.222E+12	5.432E+11	5.436E+11	3.059E+11	3.061E+11	1.362E+11	1.363E+11	7.676E+10	7.684E+10	4.922E+10	4.930E+10
8	3.869E+11	3.872E+11	1.721E+11	1.723E+11	9.691E+10	9.701E+10	4.316E+10	4.321E+10	2.432E+10	2.436E+10	1.560E+10	1.562E+10
10	1.588E+11	1.589E+11	7.063E+10	7.070E+10	3.977E+10	3.981E+10	1.771E+10	1.773E+10	9.980E+09	9.997E+09	6.400E+09	6.409E+09
15	3.156E+10	3.159E+10	1.404E+10	1.406E+10	7.905E+09	7.912E+09	3.520E+09	3.524E+09	1.984E+09	1.990E+09	1.272E+09	1.276E+09
20	1.007E+10	1.008E+10	4.482E+09	4.485E+09	2.524E+09	2.529E+09	1.124E+09	1.127E+09	6.334E+08	6.346E+08	4.061E+08	4.066E+08
30	2.041E+09	2.044E+09	9.082E+08	9.081E+08	5.114E+08	5.136E+08	2.277E+08	2.277E+08	1.283E+08	1.293E+08	8.229E+07	8.293E+07
45	4.271E+08	4.294E+08	1.900E+08	1.894E+08	1.070E+08	1.076E+08	4.764E+07	4.786E+07	2.685E+07	2.668E+07	1.722E+07	1.718E+07
60	1.466E+08	1.465E+08	6.521E+07	6.599E+07	3.671E+07	3.655E+07	1.635E+07	1.627E+07	9.214E+06	9.416E+06	5.908E+06	6.116E+06
75	6.670E+07	6.591E+07	2.967E+07	2.903E+07	1.671E+07	1.696E+07	7.440E+06	7.808E+06	4.193E+06	4.339E+06	2.689E+06	2.708E+06
90	3.664E+07	3.730E+07	1.630E+07	1.741E+07	9.178E+06	9.648E+06	4.087E+06	4.005E+06	2.304E+06	2.137E+06	1.477E+06	1.330E+06
120	1.629E+07	1.346E+07	7.245E+06	5.840E+06	4.079E+06	3.379E+06	1.817E+06	1.640E+06	1.024E+06	1.002E+06	6.565E+05	6.880E+05
150	1.052E+07	1.390E+07	4.682E+06	6.736E+06	2.636E+06	4.021E+06	1.174E+06	1.936E+06	6.615E+05	1.149E+06	4.242E+05	7.658E+05
179	9.162E+06	1.718E+07	4.076E+06	7.981E+06	2.295E+06	4.635E+06	1.022E+06	2.155E+06	5.760E+05	1.251E+06	3.693E+05	8.203E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	3.261E+13	3.264E+13	1.607E+13	1.608E+13	7.211E+12	7.217E+12	4.094E+12	4.098E+12	1.853E+12	1.855E+12	1.061E+12	1.063E+12
2	2.039E+12	2.041E+12	1.005E+12	1.006E+12	4.508E+11	4.514E+11	2.559E+11	2.563E+11	1.158E+11	1.161E+11	6.632E+10	6.650E+10
3	4.028E+11	4.032E+11	1.985E+11	1.988E+11	8.906E+10	8.922E+10	5.057E+10	5.063E+10	2.289E+10	2.296E+10	1.310E+10	1.315E+10
4	1.275E+11	1.277E+11	6.283E+10	6.293E+10	2.819E+10	2.825E+10	1.600E+10	1.604E+10	7.244E+09	7.272E+09	4.148E+09	4.165E+09
6	2.521E+10	2.524E+10	1.242E+10	1.245E+10	5.574E+09	5.588E+09	3.165E+09	3.178E+09	1.432E+09	1.439E+09	8.201E+08	8.244E+08
8	7.988E+09	8.007E+09	3.937E+09	3.945E+09	1.766E+09	1.774E+09	1.003E+09	1.008E+09	4.539E+08	4.560E+08	2.599E+08	2.619E+08
10	3.278E+09	3.287E+09	1.615E+09	1.619E+09	7.247E+08	7.289E+08	4.115E+08	4.134E+08	1.862E+08	1.874E+08	1.066E+08	1.079E+08
15	6.516E+08	6.530E+08	3.211E+08	3.233E+08	1.441E+08	1.446E+08	8.180E+07	8.221E+07	3.702E+07	3.763E+07	2.120E+07	2.167E+07
20	2.080E+08	2.095E+08	1.025E+08	1.029E+08	4.599E+07	4.619E+07	2.611E+07	2.649E+07	1.182E+07	1.212E+07	6.767E+06	6.933E+06
30	4.215E+07	4.212E+07	2.077E+07	2.089E+07	9.319E+06	9.552E+06	5.291E+06	5.442E+06	2.395E+06	2.432E+06	1.371E+06	1.377E+06
45	8.819E+06	8.993E+06	4.346E+06	4.481E+06	1.950E+06	1.975E+06	1.107E+06	1.099E+06	5.011E+05	4.907E+05	2.869E+05	2.842E+05
60	3.026E+06	3.110E+06	1.491E+06	1.454E+06	6.691E+05	6.443E+05	3.799E+05	3.651E+05	1.719E+05	1.718E+05	9.844E+04	1.037E+05
75	1.377E+06	1.323E+06	6.787E+05	6.328E+05	3.045E+05	2.883E+05	1.729E+05	1.711E+05	7.825E+04	8.518E+04	4.480E+04	5.287E+04
90	7.565E+05	6.733E+05	3.728E+05	3.441E+05	1.673E+05	1.688E+05	9.497E+04	1.040E+05	4.299E+04	5.323E+04	2.461E+04	3.226E+04
120	3.362E+05	3.914E+05	1.657E+05	2.148E+05	7.434E+04	1.078E+05	4.221E+04	6.574E+04	1.910E+04	3.241E+04	1.094E+04	1.949E+04
150	2.173E+05	4.140E+05	1.071E+05	2.147E+05	4.804E+04	1.011E+05	2.727E+04	5.898E+04	1.234E+04	2.733E+04	7.068E+03	1.571E+04
179	1.892E+05	4.336E+05	9.322E+04	2.200E+05	4.182E+04	1.012E+05	2.375E+04	5.809E+04	1.075E+04	2.632E+04	6.154E+03	1.488E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	6.908E+11	6.922E+11	3.643E+11	3.651E+11	1.870E+11	1.875E+11	8.915E+10	8.945E+10	5.337E+10	5.359E+10	2.637E+10	2.650E+10
2	4.318E+10	4.331E+10	2.277E+10	2.286E+10	1.169E+10	1.175E+10	5.573E+09	5.610E+09	3.336E+09	3.363E+09	1.648E+09	1.664E+09
3	8.532E+09	8.565E+09	4.500E+09	4.522E+09	2.310E+09	2.326E+09	1.101E+09	1.112E+09	6.592E+08	6.666E+08	3.257E+08	3.302E+08
4	2.701E+09	2.713E+09	1.424E+09	1.434E+09	7.311E+08	7.383E+08	3.485E+08	3.531E+08	2.086E+08	2.118E+08	1.031E+08	1.049E+08
6	5.340E+08	5.379E+08	2.816E+08	2.849E+08	1.446E+08	1.468E+08	6.891E+07	7.018E+07	4.125E+07	4.210E+07	2.038E+07	2.087E+07
8	1.692E+08	1.711E+08	8.923E+07	9.070E+07	4.580E+07	4.649E+07	2.184E+07	2.231E+07	1.307E+07	1.339E+07	6.459E+06	6.647E+06
10	6.943E+07	7.056E+07	3.662E+07	3.736E+07	1.880E+07	1.920E+07	8.960E+06	9.172E+06	5.364E+06	5.509E+06	2.650E+06	2.742E+06
15	1.380E+07	1.413E+07	7.279E+06	7.438E+06	3.736E+06	3.814E+06	1.781E+06	1.828E+06	1.066E+06	1.104E+06	5.268E+05	5.543E+05
20	4.406E+06	4.497E+06	2.324E+06	2.360E+06	1.193E+06	1.214E+06	5.686E+05	5.877E+05	3.404E+05	3.579E+05	1.682E+05	1.819E+05
30	8.928E+05	8.932E+05	4.708E+05	4.744E+05	2.417E+05	2.469E+05	1.152E+05	1.247E+05	6.898E+04	7.751E+04	3.408E+04	4.034E+04
45	1.868E+05	1.892E+05	9.851E+04	1.051E+05	5.057E+04	5.786E+04	2.411E+04	3.005E+04	1.443E+04	1.907E+04	7.130E+03	1.012E+04
60	6.410E+04	7.106E+04	3.388E+04	4.085E+04	1.735E+04	2.303E+04	8.272E+03	1.213E+04	4.952E+03	7.731E+03	2.447E+03	4.110E+03
75	2.917E+04	3.674E+04	1.538E+04	2.134E+04	7.897E+03	1.204E+04	3.765E+03	6.299E+03	2.254E+03	3.984E+03	1.113E+03	2.093E+03
90	1.602E+04	2.304E+04	8.451E+03	1.325E+04	4.338E+03	7.361E+03	2.068E+03	3.768E+03	1.238E+03	2.344E+03	6.117E+02	1.204E+03
120	7.122E+03	1.308E+04	3.756E+03	7.126E+03	1.928E+03	3.715E+03	9.191E+02	1.759E+03	5.502E+02	1.032E+03	2.719E+02	4.875E+02
150	4.602E+03	1.017E+04	2.427E+03	5.230E+03	1.246E+03	2.544E+03	5.939E+02	1.097E+03	3.556E+02	5.952E+02	1.257E+02	2.463E+02
179	4.007E+03	9.505E+03	2.113E+03	4.775E+03	1.085E+03	2.255E+03	5.171E+02	9.311E+02	3.096E+02	4.846E+02	1.529E+02	1.844E+02

PO (A4)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.618E+10	1.627E+10	1.113E+10	1.120E+10	6.365E+09	6.408E+09	3.522E+09	3.546E+09	1.782E+09	1.753E+09	1.088E+09	1.097E+09
2	1.011E+09	1.022E+09	6.958E+08	7.038E+08	3.979E+08	4.029E+08	2.201E+08	2.231E+08	1.114E+08	1.130E+08	6.804E+07	6.902E+07
3	1.998E+08	2.029E+08	1.375E+08	1.397E+08	7.861E+07	8.002E+07	4.349E+07	4.433E+07	2.201E+07	2.245E+07	1.344E+07	1.372E+07
4	6.324E+07	6.447E+07	4.351E+07	4.442E+07	2.488E+07	2.515E+07	1.377E+07	1.411E+07	6.967E+06	7.148E+06	4.255E+06	4.368E+06
6	1.250E+07	1.284E+07	8.603E+06	8.854E+06	4.920E+06	5.079E+06	2.722E+06	2.818E+06	1.378E+06	1.429E+06	8.414E+05	8.737E+05
8	3.962E+06	4.095E+06	2.726E+06	2.827E+06	1.559E+06	1.624E+06	8.625E+05	9.024E+05	4.365E+05	4.581E+05	2.666E+05	2.802E+05
10	1.626E+06	1.692E+06	1.119E+06	1.170E+06	6.397E+05	6.745E+05	3.539E+05	3.747E+05	1.791E+05	1.904E+05	1.094E+05	1.166E+05
15	3.232E+05	3.443E+05	2.224E+05	2.391E+05	1.272E+05	1.384E+05	7.036E+04	7.731E+04	3.560E+04	3.942E+04	2.175E+04	2.416E+04
20	1.032E+05	1.138E+05	7.099E+04	7.940E+04	4.060E+04	4.622E+04	2.246E+04	2.593E+04	1.137E+04	1.326E+04	6.942E+03	8.140E+03
30	2.091E+04	2.557E+04	1.438E+04	1.798E+04	8.226E+03	1.046E+04	4.551E+03	5.964E+03	2.303E+03	3.064E+03	1.407E+03	1.885E+03
45	4.374E+03	6.478E+03	3.010E+03	4.580E+03	1.721E+03	2.705E+03	9.522E+02	1.534E+03	4.819E+02	7.899E+02	2.943E+02	4.862E+02
60	1.501E+03	2.627E+03	1.033E+03	1.855E+03	5.066E+02	1.094E+03	3.268E+02	6.190E+02	1.654E+02	3.184E+02	1.010E+02	1.958E+02
75	6.831E+02	1.328E+03	4.700E+02	9.322E+02	2.688E+02	5.456E+02	1.487E+02	3.069E+02	7.525E+01	1.572E+02	4.596E+01	9.648E+01
90	3.752E+02	7.524E+02	2.582E+02	5.230E+02	1.476E+02	3.021E+02	8.169E+01	1.682E+02	4.134E+01	8.541E+01	2.525E+01	5.224E+01
120	1.668E+02	2.875E+02	1.147E+02	1.915E+02	6.562E+01	1.045E+02	3.631E+01	5.542E+01	1.837E+01	2.707E+01	1.122E+01	1.255E+01
150	1.078E+02	1.302E+02	7.415E+01	7.909E+01	4.240E+01	3.730E+01	2.346E+01	1.701E+01	1.187E+01	7.162E+00	7.251E+00	3.964E+00
179	9.383E+01	8.996E+01	6.456E+01	5.027E+01	3.692E+01	2.003E+01	2.043E+01	7.119E+00	1.034E+01	2.035E+00	6.313E+00	7.980E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	5.340E+08	5.383E+08	3.180E+08	3.206E+08	2.113E+08	2.130E+08	1.128E+08	1.138E+08	5.735E+07	5.783E+07	2.627E+07	2.649E+07
2	3.338E+07	3.387E+07	1.988E+07	2.017E+07	1.321E+07	1.340E+07	7.053E+06	7.157E+06	3.585E+06	3.638E+06	1.642E+06	1.666E+06
3	6.595E+06	6.734E+06	3.928E+06	4.011E+06	2.609E+06	2.645E+06	1.393E+06	1.423E+06	7.083E+05	7.235E+05	3.244E+05	3.314E+05
4	2.087E+06	2.144E+06	1.243E+06	1.277E+06	8.259E+05	8.486E+05	4.411E+05	4.533E+05	2.242E+05	2.304E+05	1.027E+05	1.055E+05
6	4.127E+05	4.290E+05	2.458E+05	2.556E+05	1.633E+05	1.698E+05	8.721E+04	9.071E+04	4.433E+04	4.612E+04	2.030E+04	2.112E+04
8	1.308E+05	1.377E+05	7.789E+04	8.203E+04	5.174E+04	5.451E+04	2.763E+04	2.912E+04	1.405E+04	1.480E+04	6.436E+03	6.781E+03
10	5.366E+04	5.728E+04	3.196E+04	3.414E+04	2.123E+04	2.269E+04	1.136E+04	1.212E+04	5.764E+03	6.163E+03	2.640E+03	2.823E+03
15	1.067E+04	1.189E+04	6.354E+03	7.089E+03	4.221E+03	4.712E+03	2.254E+03	2.518E+03	1.146E+03	1.280E+03	5.248E+02	5.866E+02
20	3.406E+03	4.010E+03	2.028E+03	2.392E+03	1.347E+03	1.591E+03	7.196E+02	8.502E+02	3.658E+02	4.323E+02	1.675E+02	1.981E+02
30	6.901E+02	9.299E+02	4.110E+02	5.552E+02	2.730E+02	3.692E+02	1.458E+02	1.974E+02	7.412E+01	1.004E+02	3.395E+01	4.601E+01
45	1.444E+02	2.401E+02	8.599E+01	1.434E+02	5.712E+01	9.540E+01	3.051E+01	5.101E+01	1.551E+01	2.595E+01	7.103E+00	1.189E+01
60	4.954E+01	9.666E+01	2.951E+01	5.771E+01	1.960E+01	3.878E+01	1.047E+01	2.052E+01	5.321E+00	1.044E+01	2.437E+00	4.783E+00
75	2.255E+01	4.753E+01	1.343E+01	2.836E+01	8.921E+00	1.885E+01	4.764E+00	1.008E+01	2.422E+00	5.125E+00	1.109E+00	2.348E+00
90	1.239E+01	2.565E+01	7.377E+00	1.523E+01	4.900E+00	1.016E+01	2.617E+00	5.424E+00	1.330E+00	2.758E+00	6.093E+01	1.263E+00
120	5.505E+00	7.849E+00	3.279E+00	4.644E+00	2.178E+00	3.075E+00	1.163E+00	1.637E+00	5.913E+01	8.307E+01	2.708E+01	3.801E+01
150	3.557E+00	1.768E+00	2.119E+00	1.010E+00	1.407E+00	6.563E+01	7.516E+01	3.432E+01	3.821E+01	1.723E+01	1.750E+01	7.839E+02
179	3.097E+00	2.010E+01	1.844E+00	7.289E+02	1.225E+00	3.264E+02	6.544E+01	9.550E+03	3.324E+01	2.566E+03	1.524E+01	5.837E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.501E+07	1.513E+07	6.778E+06	6.834E+06	3.844E+06	3.876E+06	2.472E+06	2.493E+06	1.269E+06	1.279E+06	6.243E+05	6.294E+05
2	9.382E+05	9.522E+05	4.237E+05	4.300E+05	2.603E+05	2.649E+05	1.545E+05	1.568E+05	7.930E+04	8.048E+04	3.902E+04	3.960E+04
3	1.854E+05	1.893E+05	8.371E+04	8.551E+04	4.747E+04	4.849E+04	3.053E+04	3.119E+04	1.567E+04	1.600E+04	7.710E+03	7.876E+03
4	5.867E+04	6.030E+04	2.650E+04	2.723E+04	1.503E+04	1.544E+04	9.664E+03	9.933E+03	4.959E+03	5.097E+03	2.440E+03	2.508E+03
6	1.160E+04	1.207E+04	5.239E+03	5.451E+03	2.971E+03	3.091E+03	1.911E+03	1.988E+03	9.805E+02	1.020E+03	4.825E+02	5.020E+02
8	3.676E+03	3.874E+03	1.660E+03	1.750E+03	9.414E+02	9.933E+02	6.055E+02	6.382E+02	3.107E+02	3.275E+02	1.529E+02	1.612E+02
10	1.508E+03	1.613E+03	6.812E+02	7.285E+02	3.863E+02	4.131E+02	2.485E+02	2.657E+02	1.275E+02	1.363E+02	6.274E+01	6.709E+01
15	2.999E+02	3.352E+02	1.354E+02	1.514E+02	7.680E+01	8.585E+01	4.939E+01	5.521E+01	2.534E+01	2.833E+01	1.247E+01	1.394E+01
20	9.572E+01	1.132E+02	4.323E+01	5.112E+01	2.452E+01	2.899E+01	1.577E+01	1.865E+01	8.091E+00	9.567E+00	3.982E+00	4.708E+00
30	1.940E+01	2.629E+01	8.760E+00	1.187E+01	4.968E+00	6.734E+00	3.195E+00	4.331E+00	1.639E+00	2.223E+00	8.068E+01	1.094E+00
45	4.058E+00	6.795E+00	1.833E+00	3.069E+00	1.039E+00	1.740E+00	6.685E+00	1.119E+00	3.430E+01	5.744E+01	1.688E+01	2.827E+01
60	1.393E+00	2.733E+00	6.289E+01	1.234E+00	3.567E+01	7.001E+01	2.294E+01	4.503E+01	1.177E+01	2.311E+01	5.792E+02	1.137E+01
75	6.337E+01	1.342E+00	2.862E+01	6.060E+01	1.623E+01	3.436E+01	1.044E+01	2.210E+01	5.356E+02	1.134E+01	2.636E+02	5.581E+02
90	3.481E+01	7.217E+01	1.572E+01	3.259E+01	8.916E+02	1.848E+01	5.735E+02	1.189E+01	2.943E+02	6.100E+02	1.448E+02	3.002E+02
120	1.547E+01	2.171E+01	6.988E+02	9.801E+02	3.963E+02	5.558E+02	2.549E+02	3.574E+02	1.308E+02	1.334E+02	4.436E+03	9.025E+03
150	9.998E+02	4.467E+02	4.515E+02	2.014E+02	2.561E+02	1.141E+02	1.647E+02	7.338E+03	8.451E+03	3.764E+03	4.159E+03	1.852E+03
179	8.785E+02	2.106E+04	3.931E+02	5.451E+05	2.229E+02	2.269E+05	1.434E+02	1.212E+05	7.358E+03	5.107E+06	3.621E+03	2.220E+06

BL	AT (MS)												(BARNS/STERADIAN)	
	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV			
1	1.617E+15	1.618E+15	7.196E+14	7.200E+14	4.052E+14	4.054E+14	1.804E+14	1.805E+14	1.017E+14	1.017E+14	6.520E+13	6.525E+13		
2	1.011E+14	1.012E+14	4.498E+13	4.501E+13	2.533E+13	2.544E+13	1.128E+13	1.129E+13	6.356E+12	6.361E+12	4.076E+12	4.079E+12		
3	1.998E+13	1.999E+13	8.887E+12	8.893E+12	5.004E+12	5.008E+12	2.228E+12	2.230E+12	1.256E+12	1.257E+12	8.053E+11	8.061E+11		
4	6.323E+12	6.327E+12	2.813E+12	2.815E+12	1.584E+12	1.585E+12	7.053E+11	7.059E+11	3.975E+11	3.979E+11	2.549E+11	2.552E+11		
6	1.250E+12	1.251E+12	5.562E+11	5.566E+11	3.132E+11	3.134E+11	1.395E+11	1.396E+11	7.860E+10	7.868E+10	5.040E+10	5.048E+10		
8	3.962E+11	3.964E+11	1.762E+11	1.764E+11	9.923E+10	9.934E+10	4.419E+10	4.425E+10	2.490E+10	2.494E+10	1.597E+10	1.599E+10		
10	1.626E+11	1.627E+11	7.232E+10	7.239E+10	4.072E+10	4.078E+10	1.813E+10	1.815E+10	1.022E+10	1.024E+10	6.553E+09	6.562E+09		
15	3.232E+10	3.234E+10	1.438E+10	1.439E+10	8.095E+09	8.101E+09	3.605E+09	3.610E+09	2.032E+09	2.037E+09	1.303E+09	1.307E+09		
20	1.032E+10	1.032E+10	4.589E+09	4.592E+09	2.584E+09	2.590E+09	1.151E+09	1.154E+09	6.485E+08	6.501E+08	4.159E+08	4.163E+08		
30	2.090E+09	2.092E+09	9.299E+08	9.298E+08	5.236E+08	5.259E+08	2.332E+08	2.331E+08	1.314E+08	1.323E+08	8.427E+07	8.497E+07		
45	4.374E+08	4.394E+08	1.946E+08	1.939E+08	1.096E+08	1.100E+08	4.879E+07	4.908E+07	2.750E+07	2.732E+07	1.763E+07	1.757E+07		
60	1.501E+08	1.497E+08	6.677E+07	6.770E+07	3.759E+07	3.758E+07	1.674E+07	1.661E+07	9.435E+06	9.621E+06	6.050E+06	6.263E+06		
75	6.839E+07	6.774E+07	3.038E+07	2.962E+07	1.711E+07	1.730E+07	7.618E+06	8.005E+06	4.294E+06	4.462E+06	2.753E+06	2.787E+06		
90	3.752E+07	3.798E+07	1.669E+07	1.785E+07	9.398E+06	9.934E+06	4.185E+06	4.125E+06	2.359E+06	2.198E+06	1.512E+06	1.363E+06		
100	1.668E+07	1.378E+07	7.419E+06	5.936E+06	4.177E+06	3.821E+06	1.860E+06	1.557E+06	1.048E+06	1.014E+06	6.722E+05	6.969E+05		
150	1.078E+07	1.420E+07	4.794E+06	6.901E+06	2.699E+06	4.125E+06	1.202E+06	1.991E+06	6.774E+05	1.184E+06	4.344E+05	7.897E+05		
179	9.381E+06	1.777E+07	4.174E+06	8.261E+06	2.350E+06	4.800E+06	1.046E+06	2.234E+06	5.898E+05	1.298E+06	3.782E+05	8.516E+05		
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV			
1	3.339E+13	3.342E+13	1.646E+13	1.647E+13	7.384E+12	7.391E+12	4.192E+12	4.197E+12	1.897E+12	1.900E+12	1.086E+12	1.088E+12		
2	2.087E+12	2.089E+12	1.029E+12	1.030E+12	4.616E+11	4.622E+11	2.621E+11	2.625E+11	1.186E+11	1.188E+11	6.791E+10	6.809E+10		
3	4.125E+11	4.129E+11	2.033E+11	2.035E+11	9.119E+10	9.136E+10	5.173E+10	5.188E+10	2.343E+10	2.350E+10	1.342E+10	1.347E+10		
4	1.305E+11	1.307E+11	6.434E+10	6.443E+10	2.886E+10	2.892E+10	1.639E+10	1.643E+10	7.418E+09	7.447E+09	4.247E+09	4.265E+09		
6	2.531E+10	2.585E+10	1.272E+10	1.275E+10	5.708E+09	5.722E+09	3.240E+09	3.254E+09	1.467E+09	1.473E+09	8.397E+08	8.441E+08		
8	8.179E+09	8.198E+09	4.031E+09	4.039E+09	1.808E+09	1.816E+09	1.027E+09	1.032E+09	4.647E+08	4.669E+08	2.661E+08	2.681E+08		
10	3.350E+09	3.366E+09	1.654E+09	1.658E+09	7.421E+08	7.465E+08	4.213E+08	4.234E+08	1.907E+08	1.918E+08	1.092E+08	1.104E+08		
15	6.672E+08	6.685E+08	3.283E+08	3.311E+08	1.475E+08	1.481E+08	8.376E+07	8.414E+07	3.791E+07	3.851E+07	2.170E+07	2.220E+07		
20	2.130E+08	2.145E+08	1.051E+08	1.054E+08	4.709E+07	4.756E+07	2.674E+07	2.710E+07	1.210E+07	1.242E+07	6.929E+06	7.109E+06		
30	4.316E+07	4.314E+07	2.127E+07	2.136E+07	9.542E+06	9.777E+06	5.418E+06	5.579E+06	2.452E+06	2.496E+06	1.404E+06	1.412E+06		
45	9.030E+06	9.195E+06	4.450E+06	4.593E+06	1.997E+06	2.028E+06	1.134E+06	1.128E+06	5.131E+05	5.020E+05	2.938E+05	2.900E+05		
60	3.099E+06	3.195E+06	1.527E+06	1.525E+06	6.851E+05	6.802E+05	3.890E+05	3.730E+05	1.761E+05	1.748E+05	1.008E+05	1.054E+05		
75	1.410E+06	1.360E+06	6.949E+05	6.476E+05	3.118E+05	2.917E+05	1.770E+05	1.739E+05	8.012E+04	8.655E+04	4.587E+04	5.380E+04		
90	7.747E+05	6.866E+05	3.818E+05	3.495E+05	1.713E+05	1.712E+05	9.725E+04	1.056E+05	4.401E+04	5.421E+04	2.520E+04	3.392E+04		
100	3.443E+05	3.976E+05	1.697E+05	2.190E+05	7.612E+04	1.104E+05	4.322E+04	6.746E+04	1.956E+04	3.338E+04	1.120E+04	2.012E+04		
150	2.225E+05	4.276E+05	1.096E+05	2.222E+05	4.919E+04	1.049E+05	2.793E+04	6.125E+04	1.264E+04	2.844E+04	7.237E+03	1.638E+04		
179	1.937E+05	4.506E+05	9.545E+04	2.289E+05	4.283E+04	1.064E+05	2.432E+04	6.058E+04	1.101E+04	2.749E+04	6.301E+03	1.556E+04		
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV			
1	7.074E+11	7.086E+11	3.730E+11	3.739E+11	1.915E+11	1.920E+11	9.120E+10	9.160E+10	5.465E+10	5.467E+10	2.700E+10	2.714E+10		
2	4.422E+10	4.435E+10	2.332E+10	2.340E+10	1.197E+10	1.203E+10	5.706E+09	5.744E+09	3.416E+09	3.443E+09	1.688E+09	1.704E+09		
3	8.736E+09	8.771E+09	4.607E+09	4.630E+09	2.365E+09	2.382E+09	1.127E+09	1.139E+09	6.750E+08	6.829E+08	3.335E+08	3.382E+08		
4	2.765E+09	2.778E+09	1.458E+09	1.468E+09	7.486E+08	7.560E+08	3.569E+08	3.616E+08	2.136E+08	2.169E+08	1.056E+08	1.074E+08		
6	5.468E+08	5.507E+08	2.884E+08	2.917E+08	1.480E+08	1.503E+08	7.056E+07	7.188E+07	4.224E+07	4.312E+07	2.087E+07	2.137E+07		
8	1.733E+08	1.752E+08	9.137E+07	9.287E+07	4.690E+07	4.783E+07	2.236E+07	2.285E+07	1.338E+07	1.371E+07	6.613E+06	6.807E+06		
10	7.109E+07	7.224E+07	3.749E+07	3.826E+07	1.925E+07	1.947E+07	9.175E+06	9.395E+06	5.493E+06	5.641E+06	2.714E+06	2.806E+06		
15	1.413E+07	1.448E+07	7.453E+06	7.625E+06	3.826E+06	3.908E+06	1.824E+06	1.871E+06	1.092E+06	1.129E+06	5.395E+05	5.667E+05		
20	4.512E+06	4.612E+06	2.379E+06	2.419E+06	1.221E+06	1.243E+06	5.822E+05	6.008E+05	3.686E+05	3.656E+05	1.722E+05	1.857E+05		
30	9.142E+05	9.148E+05	4.821E+05	4.849E+05	2.475E+05	2.519E+05	1.180E+05	1.271E+05	7.063E+04	7.899E+04	3.490E+04	4.112E+04		
45	1.913E+05	1.928E+05	1.009E+05	1.069E+05	5.178E+04	5.868E+04	2.466E+04	3.062E+04	1.478E+04	1.946E+04	7.301E+03	1.035E+04		
60	6.563E+04	7.226E+04	3.461E+04	4.159E+04	1.777E+04	2.350E+04	8.470E+03	1.242E+04	5.071E+03	7.928E+03	2.505E+03	4.227E+03		
75	2.987E+04	3.744E+04	1.575E+04	2.181E+04	8.086E+03	1.235E+04	3.855E+03	6.483E+03	2.308E+03	4.110E+03	1.140E+03	2.166E+03		
90	1.641E+04	2.358E+04	8.653E+03	1.361E+04	4.442E+03	7.588E+03	2.118E+03	3.898E+03	1.268E+03	2.431E+03	6.263E+02	1.252E+03		
120	7.293E+03	1.353E+04	3.846E+03	7.392E+03	1.974E+03	3.864E+03	9.412E+02	1.835E+03	5.634E+02	1.070E+03	2.784E+02	5.107E+02		
150	4.712E+03	1.062E+04	2.885E+03	5.465E+03	1.276E+03	2.663E+03	6.081E+02	1.150E+03	3.641E+02	6.248E+02	1.799E+02	2.590E+02		
179	4.103E+03	9.947E+03	2.164E+03	5.003E+03	1.111E+03	2.366E+03	5.295E+02	9.782E+02	3.170E+02	5.065E+02	1.566E+02	1.945E+02		

AT (M5)

(DARMS/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.656E+10	1.666E+10	1.147E+10	1.147E+10	6.517E+09	6.561E+09	3.606E+09	3.632E+09	1.825E+09	1.838E+09	1.115E+09	1.123E+09
2	1.035E+09	1.047E+09	7.174E+08	7.207E+08	4.034E+08	4.125E+08	2.254E+08	2.284E+08	1.141E+08	1.157E+08	6.967E+07	7.067E+07
3	2.044E+08	2.078E+08	1.408E+08	1.431E+08	8.050E+07	8.194E+07	4.454E+07	4.539E+07	2.254E+07	2.299E+07	1.377E+07	1.405E+07
4	6.475E+07	6.603E+07	4.555E+07	4.549E+07	2.548E+07	2.607E+07	1.410E+07	1.444E+07	7.133E+06	7.319E+06	4.357E+06	4.473E+06
6	1.280E+07	1.315E+07	8.815E+06	9.066E+06	5.038E+06	5.200E+06	2.787E+06	2.885E+06	1.410E+06	1.463E+06	8.615E+05	8.944E+05
8	4.057E+06	4.193E+06	2.791E+06	2.894E+06	1.596E+06	1.663E+06	8.632E+05	9.236E+05	4.469E+05	4.688E+05	2.730E+05	2.868E+05
10	1.665E+06	1.732E+06	1.145E+06	1.197E+06	6.550E+05	6.840E+05	3.624E+05	3.833E+05	1.834E+05	1.948E+05	1.120E+05	1.192E+05
15	3.309E+05	3.519E+05	2.277E+05	2.443E+05	1.302E+05	1.414E+05	7.204E+04	7.900E+04	3.646E+04	4.028E+04	2.227E+04	2.469E+04
20	1.056E+05	1.162E+05	7.269E+04	8.105E+04	4.157E+04	4.718E+04	2.300E+04	2.648E+04	1.164E+04	1.354E+04	7.109E+03	8.312E+03
30	2.141E+04	2.608E+04	1.473E+04	1.835E+04	8.423E+03	1.078E+04	4.660E+03	6.092E+03	2.358E+03	3.131E+03	1.440E+03	1.926E+03
45	4.479E+03	6.631E+03	3.082E+03	4.692E+03	1.762E+03	2.755E+03	9.751E+02	1.574E+03	4.934E+02	8.112E+02	3.014E+02	4.995E+02
60	1.537E+03	2.706E+03	1.057E+03	1.913E+03	6.047E+02	1.129E+03	3.346E+02	6.397E+02	1.693E+02	3.292E+02	1.034E+02	2.026E+02
75	6.994E+02	1.376E+03	4.812E+02	9.672E+02	2.752E+02	5.669E+02	1.523E+02	3.192E+02	7.705E+01	1.636E+02	4.706E+01	1.004E+02
90	3.842E+02	7.839E+02	2.644E+02	5.455E+02	1.512E+02	3.145E+02	8.365E+01	1.758E+02	4.233E+01	8.937E+01	2.585E+01	5.668E+01
120	1.708E+02	3.011E+02	1.175E+02	2.011E+02	6.719E+01	1.099E+02	3.718E+01	5.836E+01	1.881E+01	2.853E+01	1.149E+01	1.714E+01
150	1.103E+02	1.370E+02	7.592E+01	8.331E+01	4.342E+01	3.944E+01	2.402E+01	1.795E+01	1.216E+01	7.571E+00	7.425E+00	4.194E+00
179	9.607E+01	9.473E+01	6.610E+01	5.295E+01	3.780E+01	2.911E+01	2.091E+01	7.503E+00	1.058E+01	2.145E+00	6.464E+00	8.414E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	5.467E+08	5.509E+08	3.256E+08	3.283E+08	2.163E+08	2.181E+08	1.155E+08	1.165E+08	5.872E+07	5.921E+07	2.690E+07	2.712E+07
2	3.418E+07	3.468E+07	2.035E+07	2.066E+07	1.352E+07	1.372E+07	7.222E+06	7.329E+06	3.671E+06	3.726E+06	1.681E+06	1.706E+06
3	6.753E+06	6.895E+06	4.022E+06	4.107E+06	2.672E+06	2.759E+06	1.427E+06	1.457E+06	7.253E+05	7.409E+05	3.322E+05	3.393E+05
4	2.137E+06	2.196E+06	1.273E+06	1.308E+06	8.456E+05	8.689E+05	4.516E+05	4.641E+05	2.296E+05	2.359E+05	1.051E+05	1.081E+05
6	4.226E+05	4.392E+05	2.517E+05	2.617E+05	1.672E+05	1.738E+05	8.930E+04	9.286E+04	4.539E+04	4.721E+04	2.079E+04	2.162E+04
8	1.339E+05	1.409E+05	7.975E+04	8.394E+04	5.298E+04	5.578E+04	2.830E+04	2.980E+04	1.438E+04	1.515E+04	6.588E+03	6.939E+03
10	5.495E+04	5.859E+04	3.273E+04	3.492E+04	2.174E+04	2.351E+04	1.161E+04	1.240E+04	5.902E+03	6.304E+03	2.703E+03	2.886E+03
15	1.092E+04	1.215E+04	6.508E+03	7.244E+03	4.322E+03	4.851E+03	2.308E+03	2.573E+03	1.173E+03	1.308E+03	5.374E+02	5.994E+02
20	3.487E+03	4.095E+03	2.077E+03	2.443E+03	1.380E+03	1.624E+03	7.368E+02	8.682E+02	3.745E+02	4.415E+02	1.716E+02	2.023E+02
30	7.066E+02	9.504E+02	4.208E+02	5.674E+02	2.766E+02	3.774E+02	1.493E+02	2.018E+02	7.589E+01	1.026E+02	3.476E+01	4.703E+01
45	1.478E+02	2.468E+02	8.805E+01	1.474E+02	5.849E+01	9.804E+01	3.124E+01	5.243E+01	1.588E+01	2.667E+01	7.273E+00	1.222E+01
60	5.073E+01	1.000E+02	3.021E+01	5.972E+01	2.007E+01	3.972E+01	1.072E+01	2.124E+01	5.449E+00	1.080E+01	2.496E+00	4.951E+00
75	2.309E+01	4.950E+01	1.375E+01	2.954E+01	7.134E+00	1.964E+01	4.878E+00	1.050E+01	2.480E+00	5.339E+00	1.136E+00	2.446E+00
90	1.268E+01	2.686E+01	7.554E+00	1.600E+01	5.018E+00	1.043E+01	2.680E+00	5.681E+00	1.362E+00	2.888E+00	6.239E+00	1.323E+00
120	5.637E+00	8.280E+00	3.357E+00	4.900E+00	2.230E+00	3.245E+00	1.191E+00	1.728E+00	6.054E+00	8.766E+00	2.773E+00	4.011E+00
150	3.642E+00	1.872E+00	2.169E+00	1.070E+00	1.141E+00	6.952E+00	7.696E+00	3.636E+00	3.912E+00	1.826E+00	1.792E+00	8.307E+00
179	3.171E+00	2.119E+00	1.889E+00	7.686E+00	1.255E+00	3.444E+00	6.701E+00	1.007E+00	3.406E+00	2.706E+00	1.560E+00	6.160E+00
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.537E+07	1.550E+07	6.940E+06	6.998E+06	3.936E+06	3.949E+06	2.531E+06	2.553E+06	1.299E+06	1.310E+06	6.392E+05	6.445E+05
2	9.606E+05	9.750E+05	4.338E+05	4.403E+05	2.460E+05	2.467E+05	1.582E+05	1.606E+05	8.119E+04	8.241E+04	3.996E+04	4.055E+04
3	1.898E+05	1.939E+05	8.572E+04	8.756E+04	4.861E+04	4.966E+04	3.126E+04	3.194E+04	1.604E+04	1.639E+04	7.895E+03	8.065E+03
4	6.008E+04	6.174E+04	2.713E+04	2.788E+04	1.539E+04	1.581E+04	9.896E+03	1.017E+04	5.078E+03	5.219E+03	2.499E+03	2.568E+03
6	1.188E+04	1.236E+04	5.365E+03	5.580E+03	3.042E+03	3.144E+03	1.957E+03	2.035E+03	1.004E+03	1.044E+03	4.941E+02	5.139E+02
8	3.764E+03	3.955E+03	1.700E+03	1.791E+03	9.640E+02	1.015E+03	6.200E+02	6.531E+02	3.181E+02	3.351E+02	1.566E+02	1.649E+02
10	1.545E+03	1.650E+03	6.975E+02	7.451E+02	3.956E+02	4.226E+02	2.544E+02	2.718E+02	1.305E+02	1.343E+02	6.424E+01	6.863E+01
15	3.070E+02	3.425E+02	1.387E+02	1.547E+02	7.864E+01	8.772E+01	5.058E+01	5.642E+01	2.595E+01	2.895E+01	1.277E+01	1.425E+01
20	9.802E+01	1.156E+02	4.427E+01	5.220E+01	2.510E+01	2.941E+01	1.615E+01	1.904E+01	8.284E+00	9.771E+00	4.077E+00	4.808E+00
30	1.983E+01	2.688E+01	8.969E+00	1.214E+01	5.087E+00	6.844E+00	3.272E+00	4.428E+00	1.679E+00	2.272E+00	8.261E+00	1.118E+00
45	4.155E+00	6.984E+00	1.877E+00	3.154E+00	1.064E+00	1.789E+00	6.845E+00	1.151E+00	3.512E+00	5.904E+00	1.728E+00	2.905E+00
60	1.426E+00	2.829E+00	6.440E+00	1.278E+00	3.652E+00	7.246E+00	2.349E+00	4.661E+00	1.205E+00	2.391E+00	5.931E+00	1.177E+00
75	6.489E+01	1.398E+00	2.931E+00	6.312E+00	1.662E+00	3.580E+00	1.069E+00	2.302E+00	5.485E+00	1.181E+00	2.699E+00	5.814E+00
90	3.565E+01	7.350E+00	1.610E+00	3.414E+00	9.130E+00	1.936E+00	5.872E+00	1.245E+00	3.013E+00	6.389E+00	1.483E+00	3.144E+00
120	1.584E+01	2.851E+00	7.155E+00	1.034E+00	4.058E+00	1.846E+00	2.610E+00	3.772E+00	1.339E+00	1.936E+00	6.590E+00	9.525E+00
150	1.024E+01	4.734E+00	4.624E+00	2.134E+00	2.622E+00	1.209E+00	1.686E+00	7.766E+00	8.653E+00	3.949E+00	4.258E+00	1.936E+00
179	8.913E+00	2.224E+00	4.025E+00	5.762E+00	2.263E+00	2.401E+00	1.466E+00	1.283E+00	7.534E+00	5.412E+00	3.707E+00	2.354E+00

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.656E+15	1.657E+15	7.366E+14	7.370E+14	4.147E+14	4.150E+14	1.847E+14	1.848E+14	1.041E+14	1.042E+14	6.675E+13	6.679E+13
2	1.035E+14	1.036E+14	4.604E+13	4.607E+13	2.593E+13	2.594E+13	1.154E+13	1.155E+13	6.507E+12	6.511E+12	4.172E+12	4.176E+12
3	2.045E+13	2.046E+13	9.098E+12	9.104E+12	5.122E+12	5.126E+12	2.281E+12	2.283E+12	1.286E+12	1.287E+12	8.244E+11	8.252E+11
4	6.473E+12	6.477E+12	2.880E+12	2.882E+12	1.621E+12	1.623E+12	7.220E+11	7.226E+11	4.069E+11	4.073E+11	2.609E+11	2.612E+11
6	1.280E+12	1.281E+12	5.694E+11	5.698E+11	3.206E+11	3.208E+11	1.428E+11	1.429E+11	8.046E+10	8.055E+10	5.159E+10	5.167E+10
8	4.055E+11	4.058E+11	1.804E+11	1.806E+11	1.016E+11	1.017E+11	4.523E+10	4.530E+10	2.549E+10	2.553E+10	1.635E+10	1.637E+10
10	1.664E+11	1.665E+11	7.403E+10	7.410E+10	4.168E+10	4.172E+10	1.856E+10	1.858E+10	1.046E+10	1.048E+10	6.708E+09	6.717E+09
15	3.308E+10	3.310E+10	1.472E+10	1.473E+10	8.286E+09	8.293E+09	3.690E+09	3.696E+09	2.080E+09	2.084E+09	1.334E+09	1.338E+09
20	1.056E+10	1.057E+10	4.698E+09	4.701E+09	2.645E+09	2.652E+09	1.178E+09	1.181E+09	6.639E+08	6.658E+08	4.257E+08	4.261E+08
30	2.140E+09	2.141E+09	9.520E+08	9.519E+08	5.360E+08	5.383E+08	2.387E+08	2.385E+08	1.345E+08	1.353E+08	8.626E+07	8.704E+07
45	4.477E+08	4.494E+08	1.992E+08	1.986E+08	1.121E+08	1.125E+08	4.994E+07	5.031E+07	2.815E+07	2.798E+07	1.805E+07	1.796E+07
60	1.536E+08	1.529E+08	6.835E+07	6.942E+07	3.048E+07	3.824E+07	1.714E+07	1.696E+07	9.658E+06	9.825E+06	6.193E+06	6.410E+06
75	6.992E+07	6.962E+07	3.110E+07	3.023E+07	1.751E+07	1.763E+07	7.799E+06	8.200E+06	4.395E+06	4.587E+06	2.818E+06	2.869E+06
90	3.841E+07	3.864E+07	1.709E+07	1.828E+07	9.621E+06	1.022E+07	4.284E+06	4.257E+06	2.415E+06	2.261E+06	1.548E+06	1.398E+06
120	1.707E+07	1.413E+07	7.594E+06	6.034E+06	4.276E+06	3.464E+06	1.904E+06	1.674E+06	1.073E+06	1.025E+06	6.881E+05	7.053E+05
150	1.103E+07	1.450E+07	4.907E+06	7.065E+06	2.763E+06	4.231E+06	1.230E+06	2.046E+06	6.934E+05	1.219E+06	4.466E+05	8.139E+05
179	9.603E+06	1.837E+07	4.272E+06	8.547E+06	2.406E+06	4.970E+06	1.071E+06	2.315E+06	6.037E+05	1.346E+06	3.871E+05	8.830E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	3.419E+13	3.421E+13	1.685E+13	1.686E+13	7.559E+12	7.566E+12	4.291E+12	4.295E+12	1.942E+12	1.945E+12	1.112E+12	1.114E+12
2	2.137E+12	2.139E+12	1.053E+12	1.054E+12	4.725E+11	4.731E+11	2.683E+11	2.687E+11	1.214E+11	1.217E+11	6.932E+10	6.970E+10
3	4.222E+11	4.227E+11	2.081E+11	2.083E+11	9.335E+10	9.352E+10	5.300E+10	5.310E+10	2.399E+10	2.406E+10	1.374E+10	1.379E+10
4	1.336E+11	1.338E+11	6.586E+10	6.596E+10	2.855E+10	2.941E+10	1.678E+10	1.681E+10	7.593E+09	7.623E+09	4.347E+09	4.366E+09
6	2.642E+10	2.646E+10	1.302E+10	1.305E+10	5.843E+09	5.857E+09	3.317E+09	3.331E+09	1.501E+09	1.509E+09	8.596E+08	8.640E+08
8	8.373E+09	8.391E+09	4.126E+09	4.136E+09	1.843E+09	1.852E+09	1.051E+09	1.057E+09	4.757E+08	4.780E+08	2.724E+08	2.743E+08
10	3.436E+09	3.446E+09	1.693E+09	1.697E+09	7.597E+08	7.642E+08	4.313E+08	4.335E+08	1.952E+08	1.963E+08	1.118E+08	1.130E+08
15	6.830E+08	6.841E+08	3.366E+08	3.389E+08	1.510E+08	1.516E+08	8.574E+07	8.610E+07	3.881E+07	3.940E+07	2.222E+07	2.273E+07
20	2.180E+08	2.195E+08	1.075E+08	1.080E+08	4.821E+07	4.835E+07	2.737E+07	2.771E+07	1.239E+07	1.271E+07	7.093E+06	7.286E+06
30	4.418E+07	4.419E+07	2.177E+07	2.184E+07	9.788E+06	1.000E+07	5.546E+06	5.717E+06	2.510E+06	2.561E+06	1.437E+06	1.448E+06
45	2.244E+06	9.397E+06	4.555E+06	4.707E+06	2.044E+06	2.083E+06	1.160E+06	1.157E+06	5.252E+05	5.136E+05	3.007E+05	2.959E+05
60	3.172E+06	3.280E+06	1.563E+06	1.567E+06	7.013E+05	7.665E+05	3.982E+05	3.810E+05	1.802E+05	1.779E+05	1.032E+05	1.072E+05
75	1.444E+06	1.398E+06	7.114E+05	6.630E+05	3.192E+05	2.991E+05	1.812E+05	1.767E+05	8.202E+04	8.790E+04	4.696E+04	5.470E+04
90	7.930E+05	7.002E+05	3.908E+05	3.549E+05	1.753E+05	1.736E+05	9.955E+04	1.071E+05	4.506E+04	5.517E+04	2.580E+04	3.462E+04
120	3.524E+05	4.035E+05	1.737E+05	2.230E+05	7.792E+04	1.129E+05	4.424E+04	6.918E+04	2.003E+04	3.436E+04	1.147E+04	2.077E+04
150	2.277E+05	4.415E+05	1.122E+05	2.299E+05	5.035E+04	1.087E+05	2.859E+04	6.358E+04	1.294E+04	2.959E+04	7.439E+03	1.706E+04
179	1.983E+05	4.681E+05	9.771E+04	2.380E+05	4.384E+04	1.098E+05	2.489E+04	6.316E+04	1.127E+04	2.870E+04	6.450E+03	1.627E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	7.241E+11	7.254E+11	3.819E+11	3.827E+11	1.969E+11	1.965E+11	9.345E+10	9.376E+10	5.594E+10	5.617E+10	2.764E+10	2.778E+10
2	4.526E+10	4.540E+10	2.387E+10	2.396E+10	1.225E+10	1.231E+10	5.841E+09	5.879E+09	3.497E+09	3.525E+09	1.728E+09	1.745E+09
3	8.943E+09	8.978E+09	4.716E+09	4.739E+09	2.421E+09	2.438E+09	1.134E+09	1.166E+09	6.909E+08	6.991E+08	3.414E+08	3.462E+08
4	2.831E+09	2.844E+09	1.493E+09	1.503E+09	7.663E+08	7.738E+08	3.653E+08	3.702E+08	2.187E+08	2.221E+08	1.081E+08	1.100E+08
6	5.597E+08	5.636E+08	2.952E+08	2.985E+08	1.515E+08	1.539E+08	7.223E+07	7.306E+07	4.324E+07	4.415E+07	2.137E+07	2.188E+07
8	1.774E+08	1.793E+08	9.353E+07	9.507E+07	4.801E+07	4.898E+07	2.289E+07	2.341E+07	1.370E+07	1.404E+07	6.770E+06	6.960E+06
10	7.278E+07	7.393E+07	3.838E+07	3.918E+07	1.970E+07	2.015E+07	9.392E+06	9.623E+06	5.623E+06	5.776E+06	2.778E+06	2.872E+06
15	1.447E+07	1.483E+07	7.630E+06	7.814E+06	3.916E+06	4.004E+06	1.867E+06	1.915E+06	1.118E+06	1.155E+06	5.522E+05	5.793E+05
20	4.818E+06	4.728E+06	2.436E+06	2.479E+06	1.250E+06	1.272E+06	5.960E+05	6.140E+05	3.568E+05	3.734E+05	1.763E+05	1.895E+05
30	9.358E+05	9.370E+05	4.935E+05	4.956E+05	2.533E+05	2.601E+05	1.208E+05	1.295E+05	7.230E+04	8.062E+04	3.572E+04	4.190E+04
45	1.958E+05	1.964E+05	1.033E+05	1.088E+05	5.300E+04	5.989E+04	2.527E+04	3.118E+04	1.513E+04	1.984E+04	7.474E+03	1.057E+04
60	6.719E+04	7.343E+04	3.543E+04	4.231E+04	1.819E+04	2.366E+04	8.671E+03	1.270E+04	5.191E+03	8.125E+03	2.565E+03	4.343E+03
75	3.058E+04	3.813E+04	1.612E+04	2.227E+04	8.277E+03	1.265E+04	3.946E+03	6.668E+03	2.362E+03	4.237E+03	1.167E+03	2.240E+03
90	1.680E+04	2.412E+04	8.858E+03	1.397E+04	4.547E+03	7.817E+03	2.168E+03	4.031E+03	1.298E+03	2.520E+03	6.412E+02	1.302E+03
120	7.465E+03	1.399E+04	3.937E+03	7.664E+03	2.021E+03	4.017E+03	9.634E+02	1.913E+03	5.768E+02	1.127E+03	2.850E+02	5.349E+02
150	4.824E+03	1.107E+04	2.544E+03	5.710E+03	1.306E+03	2.786E+03	6.225E+02	1.204E+03	3.727E+02	6.558E+02	1.841E+02	2.723E+02
179	4.200E+03	1.041E+04	2.215E+03	5.241E+03	1.137E+03	2.462E+03	5.420E+02	1.027E+03	3.245E+02	5.357E+02	1.603E+02	2.047E+02

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.696E+09	1.705E+10	1.167E+10	1.174E+10	6.672E+09	6.717E+09	3.691E+09	3.718E+09	1.868E+09	1.882E+09	1.141E+09	1.150E+09
2	1.060E+09	1.071E+09	7.293E+08	7.378E+08	4.170E+08	4.223E+08	2.307E+08	2.338E+08	1.168E+08	1.184E+08	7.132E+07	7.235E+07
3	2.094E+08	2.127E+08	1.441E+08	1.465E+08	8.240E+07	8.389E+07	4.559E+07	4.647E+07	2.307E+07	2.354E+07	1.409E+07	1.438E+07
4	6.628E+07	6.760E+07	4.561E+07	4.657E+07	2.608E+07	2.666E+07	1.443E+07	1.479E+07	7.302E+06	7.492E+06	4.460E+06	4.579E+06
6	1.311E+07	1.346E+07	9.018E+06	9.280E+06	5.157E+06	5.323E+06	2.853E+06	2.953E+06	1.444E+06	1.497E+06	8.819E+05	9.154E+05
8	4.153E+06	4.291E+06	2.857E+06	2.962E+06	1.634E+06	1.701E+06	9.041E+05	9.450E+05	4.575E+05	4.797E+05	2.794E+05	2.934E+05
10	1.704E+06	1.772E+06	1.173E+06	1.225E+06	6.705E+05	7.043E+05	3.710E+05	3.920E+05	1.877E+05	1.992E+05	1.147E+05	1.219E+05
15	3.388E+05	3.596E+05	2.331E+05	2.496E+05	1.333E+05	1.444E+05	7.375E+04	8.070E+04	3.732E+04	4.114E+04	2.279E+04	2.522E+04
20	1.081E+05	1.185E+05	7.441E+04	8.271E+04	4.255E+04	4.815E+04	2.354E+04	2.702E+04	1.191E+04	1.382E+04	7.277E+03	8.484E+03
20	2.191E+04	2.658E+04	1.508E+04	1.871E+04	8.622E+03	1.100E+04	4.770E+03	6.218E+03	2.414E+03	3.197E+03	1.474E+03	1.967E+03
45	4.585E+03	6.783E+03	3.155E+03	4.804E+03	1.804E+03	2.844E+03	9.981E+02	1.615E+03	5.051E+02	8.326E+02	3.085E+02	5.129E+02
60	1.573E+03	2.786E+03	1.083E+03	1.971E+03	6.191E+02	1.145E+03	3.425E+02	6.607E+02	1.733E+02	3.403E+02	1.059E+02	2.095E+02
75	7.160E+02	1.425E+03	4.926E+02	1.003E+03	2.817E+02	5.887E+02	1.559E+02	3.319E+02	7.888E+01	1.702E+02	4.818E+01	1.045E+02
90	3.938E+02	8.164E+02	2.706E+02	5.687E+02	1.548E+02	3.294E+02	8.563E+01	1.838E+02	4.333E+01	9.348E+01	2.647E+01	5.722E+01
120	1.748E+02	3.164E+02	1.203E+02	2.112E+02	6.878E+01	1.156E+02	6.878E+01	6.145E+01	1.926E+01	3.007E+01	1.176E+01	1.807E+01
150	1.138E+02	1.442E+02	7.772E+01	8.774E+01	4.445E+01	4.148E+01	2.459E+01	1.896E+01	1.244E+01	8.004E+00	7.601E+00	4.366E+00
179	9.835E+01	9.974E+01	6.767E+01	5.577E+01	3.870E+01	2.224E+01	2.141E+01	7.908E+00	1.083E+01	2.261E+00	6.617E+00	8.871E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	5.597E+08	5.640E+08	3.333E+08	3.359E+08	2.214E+08	2.232E+08	1.183E+08	1.192E+08	6.011E+07	6.058E+07	2.753E+07	2.775E+07
2	3.499E+07	3.550E+07	2.084E+07	2.115E+07	1.384E+07	1.405E+07	7.392E+06	7.503E+06	3.758E+06	3.814E+06	1.721E+06	1.747E+06
3	6.918E+06	7.059E+06	4.117E+06	4.205E+06	2.735E+06	2.793E+06	1.461E+06	1.492E+06	7.424E+05	7.584E+05	3.401E+05	3.474E+05
4	2.188E+06	2.247E+06	1.303E+06	1.339E+06	8.656E+05	8.895E+05	4.623E+05	4.751E+05	2.350E+05	2.415E+05	1.076E+05	1.106E+05
6	4.326E+05	4.495E+05	2.577E+05	2.678E+05	1.712E+05	1.779E+05	9.141E+04	9.504E+04	4.647E+04	4.831E+04	2.128E+04	2.213E+04
8	1.371E+05	1.441E+05	8.164E+04	8.588E+04	5.423E+04	5.707E+04	2.896E+04	3.048E+04	1.472E+04	1.550E+04	6.744E+03	7.099E+03
10	5.628E+04	5.992E+04	3.350E+04	3.571E+04	2.226E+04	2.373E+04	1.189E+04	1.268E+04	6.042E+03	6.446E+03	2.767E+03	2.953E+03
15	1.118E+04	1.241E+04	6.660E+03	7.399E+03	4.424E+03	4.918E+03	2.363E+03	2.628E+03	1.201E+03	1.336E+03	5.501E+02	6.124E+02
20	3.578E+03	4.180E+03	2.126E+03	2.494E+03	1.412E+03	1.658E+03	7.543E+02	8.862E+02	3.834E+02	4.507E+02	1.756E+02	2.065E+02
30	7.233E+02	9.708E+02	4.308E+02	5.796E+02	2.862E+02	3.855E+02	1.528E+02	2.061E+02	7.769E+01	1.049E+02	3.558E+01	4.805E+01
45	1.513E+02	2.534E+02	9.013E+01	1.514E+02	5.988E+01	1.007E+02	3.198E+01	5.385E+01	1.625E+01	2.740E+01	7.445E+00	1.255E+01
60	5.193E+01	1.034E+02	3.093E+01	6.177E+01	2.055E+01	4.109E+01	1.097E+01	2.197E+01	5.578E+00	1.118E+01	2.555E+00	5.121E+00
75	2.363E+01	5.153E+01	1.408E+01	3.075E+01	9.350E+00	2.045E+01	4.994E+00	1.093E+01	2.538E+00	5.559E+00	1.163E+00	2.547E+00
90	1.298E+01	2.811E+01	7.732E+00	1.676E+01	5.137E+00	1.113E+01	2.743E+00	5.948E+00	1.394E+00	3.024E+00	6.387E+01	1.385E+00
120	5.770E+00	8.734E+00	3.437E+00	5.170E+00	2.283E+00	3.423E+00	1.219E+00	1.823E+00	6.198E+01	9.250E+01	2.839E+01	4.233E+01
150	3.729E+00	1.982E+00	2.221E+00	1.133E+00	1.475E+00	7.364E+01	7.878E+01	3.852E+01	4.005E+01	1.935E+01	1.834E+01	8.802E+02
179	3.248E+00	2.234E+01	1.933E+00	8.104E+02	1.284E+00	3.631E+02	6.859E+01	1.062E+02	3.487E+01	2.855E+03	1.597E+01	6.501E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.573E+07	1.585E+07	7.105E+06	7.160E+06	4.029E+06	4.061E+06	2.591E+06	2.612E+06	1.330E+06	1.340E+06	6.543E+05	6.595E+05
2	9.834E+05	9.981E+05	4.441E+05	4.508E+05	2.519E+05	2.556E+05	1.620E+05	1.644E+05	8.312E+04	8.436E+04	4.090E+04	4.152E+04
3	1.943E+05	1.985E+05	8.775E+04	8.964E+04	4.976E+04	5.083E+04	3.200E+04	3.269E+04	1.642E+04	1.678E+04	8.082E+03	8.256E+03
4	6.158E+04	6.321E+04	2.777E+04	2.854E+04	1.575E+04	1.619E+04	1.013E+04	1.041E+04	5.198E+03	5.342E+03	2.558E+03	2.629E+03
6	1.218E+04	1.264E+04	5.492E+03	5.711E+03	3.114E+03	3.238E+03	2.003E+03	2.083E+03	1.028E+03	1.069E+03	5.058E+02	5.240E+02
8	3.853E+03	4.056E+03	1.740E+03	1.832E+03	9.868E+02	1.039E+03	6.347E+02	6.682E+02	3.257E+02	3.428E+02	1.603E+02	1.687E+02
10	1.581E+03	1.687E+03	7.140E+02	7.620E+02	4.049E+02	4.321E+02	2.604E+02	2.779E+02	1.336E+02	1.426E+02	6.576E+01	7.018E+01
15	3.143E+02	3.498E+02	1.419E+02	1.580E+02	8.050E+01	8.960E+01	5.177E+01	5.763E+01	2.657E+01	2.957E+01	1.307E+01	1.455E+01
20	1.003E+02	1.180E+02	4.531E+01	5.329E+01	2.570E+01	3.022E+01	1.653E+01	1.944E+01	8.481E+00	9.973E+00	4.173E+00	4.908E+00
30	2.033E+01	2.745E+01	9.182E+00	1.240E+01	5.207E+00	7.032E+00	3.349E+00	4.523E+00	1.718E+00	2.321E+00	8.456E+01	1.142E+00
45	4.254E+00	7.173E+00	1.921E+00	3.240E+00	1.089E+00	1.837E+00	7.007E+00	1.182E+00	3.595E+01	6.064E+01	1.769E+01	2.984E+00
60	1.448E+00	2.926E+00	6.592E+01	1.322E+00	3.738E+01	7.456E+01	2.404E+01	4.821E+01	1.234E+01	2.474E+01	6.071E+02	1.217E+01
75	6.643E+01	1.455E+00	3.000E+01	6.573E+01	1.701E+01	3.758E+01	1.094E+01	2.398E+01	5.615E+02	1.230E+01	2.763E+02	6.054E+02
90	3.648E+01	7.915E+01	1.648E+01	3.574E+01	9.346E+02	2.027E+01	6.011E+02	1.304E+02	3.084E+02	6.690E+02	1.518E+02	3.292E+02
120	1.822E+01	2.418E+01	7.325E+02	1.092E+01	4.154E+02	6.189E+02	2.672E+02	3.981E+02	1.371E+02	2.042E+02	6.746E+03	1.005E+02
150	1.048E+01	5.016E+02	4.733E+02	2.261E+02	2.684E+02	1.256E+02	1.726E+02	8.240E+03	8.858E+03	4.227E+03	4.359E+02	2.080E+03
179	9.124E+02	2.348E+04	4.121E+02	6.090E+05	2.337E+02	2.540E+05	1.503E+02	1.359E+05	7.712E+03	5.734E+06	3.795E+03	2.496E+06

FR (87)

(BARNES/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.604E+15	1.695E+15	7.538E+14	7.543E+14	4.244E+14	4.247E+14	1.890E+14	1.891E+14	1.065E+14	1.066E+14	6.831E+13	6.836E+13
2	1.059E+14	1.060E+14	4.712E+13	4.715E+13	2.653E+13	2.665E+13	1.181E+13	1.182E+13	6.659E+12	6.664E+12	4.270E+12	4.273E+12
3	2.093E+13	2.094E+13	9.310E+12	9.316E+12	5.242E+12	5.246E+12	2.334E+12	2.336E+12	1.316E+12	1.317E+12	8.436E+11	8.444E+11
4	6.624E+12	6.629E+12	2.947E+12	2.949E+12	1.659E+12	1.660E+12	7.389E+11	7.395E+11	4.164E+11	4.168E+11	2.670E+11	2.673E+11
6	1.310E+12	1.311E+12	5.827E+11	5.832E+11	3.281E+11	3.284E+11	1.461E+11	1.462E+11	8.234E+10	8.244E+10	5.280E+10	5.287E+10
8	4.150E+11	4.153E+11	1.846E+11	1.848E+11	1.040E+11	1.041E+11	4.629E+10	4.636E+10	2.609E+10	2.613E+10	1.673E+10	1.676E+10
10	1.703E+11	1.705E+11	7.576E+10	7.582E+10	4.266E+10	4.269E+10	1.900E+10	1.901E+10	1.071E+10	1.073E+10	6.865E+09	6.874E+09
15	3.385E+10	3.388E+10	1.506E+10	1.507E+10	8.480E+09	8.488E+09	3.776E+09	3.783E+09	2.128E+09	2.133E+09	1.365E+09	1.370E+09
20	1.081E+10	1.082E+10	4.808E+09	4.812E+09	2.707E+09	2.714E+09	1.206E+09	1.208E+09	6.794E+08	6.817E+08	4.357E+08	4.360E+08
30	2.190E+09	2.190E+09	9.742E+08	9.743E+08	5.485E+08	5.507E+08	2.443E+08	2.441E+08	1.377E+08	1.384E+08	8.828E+07	8.911E+07
45	4.582E+08	4.595E+08	2.038E+08	2.034E+08	1.148E+08	1.150E+08	5.111E+07	5.156E+07	2.880E+07	2.866E+07	1.847E+07	1.836E+07
60	1.572E+08	1.561E+08	6.995E+07	7.113E+07	3.938E+07	3.933E+07	1.754E+07	1.732E+07	9.884E+06	1.003E+07	6.338E+06	6.555E+06
75	7.158E+07	7.155E+07	3.183E+07	3.086E+07	1.792E+07	1.766E+07	7.981E+06	8.394E+06	4.498E+06	4.713E+06	2.884E+06	2.952E+06
90	3.931E+07	3.929E+07	1.749E+07	1.871E+07	9.846E+06	1.062E+07	4.384E+06	4.390E+06	2.471E+06	2.327E+06	1.585E+06	1.434E+06
120	1.747E+07	1.449E+07	7.772E+06	6.136E+06	4.376E+06	3.506E+06	1.949E+06	1.690E+06	1.098E+06	1.035E+06	7.042E+05	7.131E+05
150	1.129E+07	1.480E+07	5.022E+06	7.228E+06	2.828E+06	4.136E+06	1.259E+06	2.102E+06	7.096E+05	1.254E+06	4.550E+05	5.384E+05
179	9.828E+06	1.898E+07	4.372E+06	8.840E+06	2.462E+06	5.143E+06	1.096E+06	2.398E+06	6.178E+05	1.396E+06	3.962E+05	9.169E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	3.498E+13	3.501E+13	1.724E+13	1.726E+13	7.735E+12	7.743E+12	4.392E+12	4.396E+12	1.988E+12	1.990E+12	1.138E+12	1.140E+12
2	2.187E+12	2.189E+12	1.078E+12	1.079E+12	4.815E+11	4.841E+11	2.745E+11	2.750E+11	1.243E+11	1.245E+11	7.114E+10	7.133E+10
3	4.321E+11	4.325E+11	2.129E+11	2.132E+11	5.554E+10	5.571E+10	5.424E+10	5.435E+10	2.455E+10	2.462E+10	1.406E+10	1.411E+10
4	1.368E+11	1.370E+11	6.740E+10	6.750E+10	3.024E+10	3.030E+10	1.717E+10	1.721E+10	7.771E+09	7.801E+09	4.449E+09	4.468E+09
6	2.704E+10	2.708E+10	1.333E+10	1.336E+10	5.979E+09	5.993E+09	3.395E+09	3.409E+09	1.537E+09	1.544E+09	8.797E+08	8.842E+08
8	8.569E+09	8.587E+09	4.223E+09	4.233E+09	1.895E+09	1.902E+09	1.076E+09	1.082E+09	4.869E+08	4.892E+08	2.787E+08	2.807E+08
10	3.516E+09	3.527E+09	1.733E+09	1.736E+09	7.774E+08	7.821E+08	4.413E+08	4.438E+08	1.998E+08	2.009E+08	1.144E+08	1.156E+08
15	6.990E+08	7.000E+08	3.445E+08	3.468E+08	1.545E+08	1.563E+08	8.774E+07	8.808E+07	3.971E+07	4.029E+07	2.274E+07	2.326E+07
20	2.231E+08	2.246E+08	1.100E+08	1.106E+08	4.934E+07	4.946E+07	2.801E+07	2.833E+07	1.268E+07	1.301E+07	7.259E+06	7.465E+06
30	4.521E+07	4.526E+07	2.228E+07	2.232E+07	9.997E+06	1.023E+07	5.676E+06	5.856E+06	2.569E+06	2.627E+06	1.471E+06	1.485E+06
45	9.460E+06	9.599E+06	4.662E+06	4.820E+06	2.092E+06	2.138E+06	1.188E+06	1.188E+06	5.375E+05	5.255E+05	3.077E+05	3.020E+05
60	3.246E+06	3.366E+06	1.600E+06	1.610E+06	7.177E+05	6.933E+05	4.075E+05	3.893E+05	1.844E+05	1.810E+05	1.056E+05	1.089E+05
75	1.477E+06	1.437E+06	7.280E+05	6.788E+05	3.266E+05	3.046E+05	1.854E+05	1.795E+05	8.394E+04	8.922E+04	4.806E+04	5.558E+04
90	8.115E+05	7.144E+05	3.999E+05	3.604E+05	1.794E+05	1.769E+05	1.019E+05	1.086E+05	4.611E+04	5.611E+04	2.640E+04	3.530E+04
120	3.607E+05	4.091E+05	1.777E+05	2.269E+05	7.975E+04	1.153E+05	4.528E+04	7.089E+04	2.049E+04	3.535E+04	1.173E+04	2.142E+04
150	2.331E+05	4.556E+05	1.149E+05	2.377E+05	5.153E+04	1.126E+05	2.926E+04	6.598E+04	1.324E+04	3.977E+04	7.582E+03	1.777E+04
179	2.029E+05	4.861E+05	1.000E+05	2.475E+05	4.487E+04	1.143E+05	2.547E+04	6.582E+04	1.153E+04	2.996E+04	6.601E+03	1.700E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	7.410E+11	7.423E+11	3.908E+11	3.917E+11	2.006E+11	2.011E+11	9.564E+10	9.595E+10	5.725E+10	5.748E+10	2.829E+10	2.843E+10
2	4.632E+10	4.646E+10	2.443E+10	2.452E+10	1.254E+10	1.260E+10	5.978E+09	6.016E+09	3.579E+09	3.607E+09	1.768E+09	1.785E+09
3	9.152E+09	9.189E+09	4.827E+09	4.850E+09	2.478E+09	2.495E+09	1.181E+09	1.193E+09	7.071E+08	7.154E+08	3.494E+08	3.543E+08
4	2.897E+09	2.911E+09	1.528E+09	1.538E+09	7.842E+08	7.918E+08	3.739E+08	3.788E+08	2.238E+08	2.273E+08	1.106E+08	1.126E+08
6	5.728E+08	5.767E+08	3.021E+08	3.054E+08	1.551E+08	1.575E+08	7.292E+07	7.534E+07	4.425E+07	4.520E+07	2.187E+07	2.240E+07
8	1.815E+08	1.834E+08	9.572E+07	9.730E+07	4.913E+07	5.014E+07	2.342E+07	2.396E+07	1.402E+07	1.437E+07	6.928E+06	7.132E+06
10	7.448E+07	7.564E+07	3.928E+07	4.011E+07	2.016E+07	2.064E+07	9.612E+06	9.853E+06	5.754E+06	5.913E+06	2.843E+06	2.939E+06
15	1.481E+07	1.519E+07	7.808E+06	8.006E+06	4.008E+06	4.101E+06	1.911E+06	1.960E+06	1.144E+06	1.181E+06	5.652E+05	5.929E+05
20	4.726E+06	4.847E+06	2.493E+06	2.540E+06	1.279E+06	1.302E+06	6.100E+05	6.275E+05	3.652E+05	3.813E+05	1.804E+05	1.934E+05
30	9.577E+05	9.597E+05	5.051E+05	5.065E+05	2.593E+05	2.652E+05	1.236E+05	1.319E+05	7.399E+04	8.192E+04	3.556E+04	4.267E+04
45	2.004E+05	2.000E+05	1.057E+05	1.106E+05	5.424E+04	6.088E+04	2.586E+04	3.173E+04	1.548E+04	2.021E+04	7.649E+03	1.079E+04
60	6.876E+04	7.459E+04	3.626E+04	4.301E+04	1.861E+04	2.441E+04	8.874E+03	1.298E+04	5.312E+03	8.321E+03	2.625E+03	4.461E+03
75	3.129E+04	3.880E+04	1.650E+04	2.273E+04	8.471E+03	1.265E+04	4.038E+03	6.853E+03	2.418E+03	4.366E+03	1.194E+03	2.315E+03
90	1.719E+04	2.466E+04	9.065E+03	1.433E+04	4.653E+03	8.047E+03	2.218E+03	4.166E+03	1.328E+03	2.611E+03	6.562E+02	1.353E+03
120	7.640E+03	1.446E+04	4.029E+03	7.943E+03	2.068E+03	4.175E+03	9.860E+02	1.994E+03	5.902E+02	1.177E+03	2.916E+02	5.601E+02
150	4.937E+03	1.154E+04	2.603E+03	5.963E+03	1.336E+03	2.915E+03	6.371E+02	1.264E+03	3.814E+02	6.882E+02	1.884E+02	2.862E+02
179	4.298E+03	1.088E+04	2.267E+03	5.489E+03	1.164E+03	2.603E+03	5.547E+02	1.079E+03	3.321E+02	5.631E+02	1.641E+02	2.154E+02

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.735E+09	1.745E+10	1.194E+10	1.201E+10	6.828E+09	6.874E+09	3.778E+09	3.805E+09	1.912E+09	1.926E+09	1.168E+09	1.176E+09
2	1.085E+09	1.097E+09	7.463E+08	7.551E+08	4.268E+08	4.351E+08	2.361E+08	2.393E+08	1.195E+08	1.212E+08	7.299E+07	7.405E+07
3	2.143E+08	2.177E+08	1.475E+08	1.499E+08	8.433E+07	8.586E+07	4.666E+07	4.756E+07	2.361E+07	2.409E+07	1.442E+07	1.472E+07
4	6.784E+07	6.919E+07	4.667E+07	4.767E+07	2.669E+07	2.731E+07	1.477E+07	1.513E+07	7.473E+06	7.668E+06	4.564E+06	4.686E+06
6	1.341E+07	1.378E+07	9.229E+06	9.498E+06	5.278E+06	5.447E+06	2.920E+06	3.021E+06	1.478E+06	1.532E+06	9.025E+05	9.367E+05
8	4.250E+06	4.392E+06	2.924E+06	3.031E+06	1.672E+06	1.741E+06	9.252E+05	9.667E+05	4.682E+05	4.906E+05	2.860E+05	3.001E+05
10	1.744E+06	1.813E+06	1.200E+06	1.253E+06	6.862E+05	7.207E+05	3.797E+05	4.008E+05	1.921E+05	2.037E+05	1.173E+05	1.247E+05
15	3.467E+05	3.674E+05	2.385E+05	2.550E+05	1.364E+05	1.475E+05	7.547E+04	8.240E+04	3.819E+04	4.201E+04	2.333E+04	2.575E+04
20	1.107E+05	1.209E+05	7.615E+04	8.436E+04	4.355E+04	4.911E+04	2.409E+04	2.756E+04	1.219E+04	1.410E+04	7.447E+03	8.655E+03
30	2.243E+04	2.708E+04	1.543E+04	1.906E+04	8.824E+03	1.122E+04	4.882E+03	6.343E+03	2.471E+03	3.262E+03	1.509E+03	2.007E+03
45	4.692E+03	6.933E+03	3.228E+03	4.915E+03	1.846E+03	2.912E+03	1.021E+03	1.655E+03	5.169E+02	8.540E+02	3.157E+02	5.262E+02
60	1.610E+03	2.866E+03	1.108E+03	2.030E+03	6.335E+02	1.202E+03	3.505E+02	6.820E+02	1.774E+02	3.515E+02	1.083E+02	2.164E+02
75	7.327E+02	1.476E+03	5.042E+02	1.040E+03	2.883E+02	6.111E+02	1.595E+02	3.448E+02	8.072E+01	1.770E+02	4.930E+01	1.088E+02
90	4.025E+02	8.499E+02	2.770E+02	5.928E+02	1.584E+02	3.439E+02	8.763E+01	1.920E+02	4.434E+01	9.776E+01	2.708E+01	5.986E+01
120	1.789E+02	3.318E+02	1.231E+02	2.218E+02	7.039E+01	1.215E+02	3.895E+01	6.469E+01	1.971E+01	3.168E+01	1.204E+01	1.905E+01
150	1.156E+02	1.517E+02	7.954E+01	9.240E+01	4.549E+01	4.374E+01	2.517E+01	2.001E+01	1.273E+01	8.480E+00	7.778E+00	4.693E+00
179	1.006E+02	1.050E+02	6.925E+01	5.874E+01	3.960E+01	2.344E+01	2.191E+01	8.335E+00	1.109E+01	2.384E+00	6.772E+00	9.353E+01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	5.728E+08	5.772E+08	3.411E+08	3.438E+08	2.266E+08	2.284E+08	1.210E+08	1.220E+08	6.152E+07	6.200E+07	2.818E+07	2.840E+07
2	3.580E+07	3.633E+07	2.132E+07	2.164E+07	1.417E+07	1.438E+07	7.565E+06	7.679E+06	3.846E+06	3.904E+06	1.761E+06	1.788E+06
3	7.074E+06	7.224E+06	4.213E+06	4.303E+06	2.799E+06	2.869E+06	1.495E+06	1.527E+06	7.598E+05	7.762E+05	3.480E+05	3.555E+05
4	2.239E+06	2.300E+06	1.394E+06	1.370E+06	8.859E+05	9.103E+05	4.731E+05	4.862E+05	2.405E+05	2.472E+05	1.102E+05	1.132E+05
6	4.427E+05	4.599E+05	2.637E+05	2.740E+05	1.752E+05	1.820E+05	9.355E+04	9.724E+04	4.755E+04	4.943E+04	2.178E+04	2.264E+04
8	1.403E+05	1.474E+05	8.355E+04	8.784E+04	5.550E+04	5.837E+04	2.964E+04	3.118E+04	1.507E+04	1.585E+04	6.901E+03	7.261E+03
10	5.757E+04	6.126E+04	3.429E+04	3.651E+04	2.278E+04	2.462E+04	1.216E+04	1.296E+04	6.183E+03	6.590E+03	2.832E+03	3.019E+03
15	1.144E+04	1.267E+04	6.816E+03	7.555E+03	4.528E+03	5.022E+03	2.418E+03	2.684E+03	1.229E+03	1.365E+03	5.630E+02	6.252E+02
20	3.653E+03	4.264E+03	2.176E+03	2.544E+03	1.445E+03	1.692E+03	7.719E+02	9.041E+02	3.924E+02	4.598E+02	1.797E+02	2.107E+02
30	7.402E+02	9.909E+02	4.409E+02	5.917E+02	2.929E+02	3.936E+02	1.644E+02	2.104E+02	7.951E+01	1.070E+02	3.642E+01	4.905E+01
45	1.549E+02	2.600E+02	9.224E+01	1.553E+02	6.128E+01	1.033E+02	3.273E+01	5.527E+01	1.664E+01	2.812E+01	7.619E+00	1.289E+01
60	5.315E+01	1.069E+02	3.165E+01	6.385E+01	2.103E+01	4.248E+01	1.123E+01	2.272E+01	5.708E+00	1.150E+01	2.615E+00	5.295E+00
75	2.419E+01	5.363E+01	1.440E+01	3.200E+01	9.569E+00	2.128E+01	5.110E+00	1.138E+01	2.588E+00	5.787E+00	1.190E+00	2.651E+00
90	1.329E+01	2.942E+01	7.913E+00	1.754E+01	5.257E+00	1.145E+01	2.807E+00	6.226E+00	1.427E+00	3.165E+00	6.536E+00	1.450E+00
120	5.905E+00	9.211E+00	3.517E+00	5.453E+00	2.336E+00	3.611E+00	1.248E+00	1.923E+00	6.343E+00	9.760E+00	2.905E+00	4.466E+00
150	3.816E+00	2.698E+00	2.273E+00	1.200E+00	1.510E+00	7.800E+00	8.063E+00	4.081E+00	4.098E+00	2.050E+00	1.877E+00	9.326E+00
179	3.222E+00	2.356E+01	1.979E+00	8.546E+02	1.314E+00	3.830E+02	7.020E+00	1.120E+02	3.568E+00	3.012E+03	1.634E+01	6.861E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.610E+07	1.623E+07	7.271E+06	7.328E+06	4.123E+06	4.150E+06	2.652E+06	2.673E+06	1.361E+06	1.371E+06	6.696E+05	6.749E+05
2	1.006E+06	1.022E+06	4.545E+05	4.614E+05	2.577E+05	2.616E+05	1.658E+05	1.683E+05	8.506E+04	8.634E+04	4.186E+04	4.249E+04
3	1.988E+05	2.031E+05	8.980E+04	9.174E+04	5.093E+04	5.203E+04	3.275E+04	3.346E+04	1.681E+04	1.717E+04	8.271E+03	8.449E+03
4	6.294E+04	6.469E+04	2.842E+04	2.921E+04	1.612E+04	1.657E+04	1.037E+04	1.066E+04	5.320E+03	5.467E+03	2.618E+03	2.691E+03
6	1.244E+04	1.294E+04	5.620E+03	5.843E+03	3.187E+03	3.314E+03	2.050E+03	2.131E+03	1.052E+03	1.094E+03	5.176E+02	5.381E+02
8	3.943E+03	4.149E+03	1.781E+03	1.874E+03	1.010E+03	1.063E+03	6.495E+02	6.834E+02	3.333E+02	3.507E+02	1.640E+02	1.726E+02
10	1.618E+03	1.725E+03	7.307E+02	7.790E+02	4.144E+02	4.418E+02	2.665E+02	2.841E+02	1.368E+02	1.458E+02	6.730E+01	7.175E+01
15	3.217E+02	3.572E+02	1.453E+02	1.613E+02	8.238E+01	9.149E+01	5.298E+01	5.885E+01	2.719E+01	3.019E+01	1.338E+01	1.486E+01
20	1.027E+02	1.204E+02	4.637E+01	5.437E+01	2.630E+01	3.083E+01	1.691E+01	1.983E+01	8.679E+00	1.018E+01	4.271E+00	5.007E+00
30	2.081E+01	2.803E+01	9.396E+00	1.266E+01	5.329E+00	7.179E+00	3.427E+00	4.618E+00	1.759E+00	2.369E+00	8.654E+00	1.166E+00
45	4.353E+00	7.363E+00	1.966E+00	3.326E+00	1.115E+00	1.886E+00	7.171E+00	1.213E+00	3.680E+00	6.225E+00	1.811E+00	3.063E+00
60	1.494E+00	3.026E+00	6.746E+00	1.367E+00	3.826E+00	7.750E+00	2.461E+00	4.985E+00	1.263E+00	2.553E+00	6.213E+00	1.259E+00
75	6.798E+00	1.515E+00	3.070E+00	6.842E+00	1.741E+00	3.880E+00	1.120E+00	2.496E+00	5.746E+00	1.281E+00	2.828E+00	6.302E+00
90	3.735E+00	8.285E+00	1.687E+00	3.742E+00	9.565E+00	2.122E+00	6.152E+00	1.365E+00	3.157E+00	7.003E+00	1.553E+00	3.446E+00
120	1.660E+00	2.551E+00	7.496E+00	1.152E+00	4.251E+00	6.531E+00	2.734E+00	4.200E+00	1.403E+00	2.155E+00	6.904E+00	1.061E+00
150	1.073E+00	5.315E+00	4.844E+00	2.396E+00	2.747E+00	1.358E+00	1.767E+00	8.731E+00	9.065E+00	4.479E+00	4.261E+00	2.204E+00
179	9.338E+00	2.480E+04	4.217E+00	6.437E+05	2.302E+00	2.687E+05	1.538E+00	1.438E+05	7.892E+00	6.076E+06	3.884E+00	2.646E+06

RA (88)

(BARNs/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.734E+15	1.735E+15	7.713E+14	7.717E+14	4.343E+14	4.345E+14	1.934E+14	1.935E+14	1.090E+14	1.091E+14	6.989E+13	6.994E+13
2	1.084E+14	1.084E+14	4.821E+13	4.824E+13	2.715E+13	2.716E+13	1.209E+13	1.210E+13	6.813E+12	6.818E+12	4.369E+12	4.372E+12
3	2.141E+13	2.143E+13	9.526E+12	9.532E+12	5.363E+12	5.367E+12	2.388E+12	2.390E+12	1.346E+12	1.347E+12	8.631E+11	8.639E+11
4	6.777E+12	6.782E+12	3.015E+12	3.017E+12	1.698E+12	1.699E+12	7.560E+11	7.566E+11	4.261E+11	4.264E+11	2.732E+11	2.735E+11
6	1.340E+12	1.341E+12	5.962E+11	5.967E+11	3.357E+11	3.360E+11	1.495E+11	1.496E+11	8.424E+10	8.435E+10	5.402E+10	5.409E+10
8	4.246E+11	4.249E+11	1.889E+11	1.891E+11	1.064E+11	1.065E+11	4.736E+10	4.743E+10	2.669E+10	2.673E+10	1.712E+10	1.715E+10
10	1.742E+11	1.744E+11	7.752E+10	7.757E+10	4.364E+10	4.369E+10	1.944E+10	1.946E+10	1.095E+10	1.098E+10	7.024E+09	7.033E+09
15	3.464E+10	3.466E+10	1.541E+10	1.542E+10	8.676E+09	8.686E+09	3.864E+09	3.872E+09	2.177E+09	2.181E+09	1.396E+09	1.402E+09
20	1.106E+10	1.107E+10	4.919E+09	4.924E+09	2.770E+09	2.777E+09	1.233E+09	1.235E+09	6.951E+08	6.977E+08	4.457E+08	4.461E+08
30	2.241E+09	2.240E+09	9.968E+08	9.973E+08	5.612E+08	5.632E+08	2.499E+08	2.498E+08	1.409E+08	1.415E+08	9.032E+07	9.120E+07
45	4.688E+08	4.695E+08	2.086E+08	2.083E+08	1.174E+08	1.175E+08	5.229E+07	5.283E+07	2.947E+07	2.935E+07	1.890E+07	1.876E+07
60	1.609E+08	1.594E+08	7.156E+07	7.284E+07	4.029E+07	4.024E+07	1.794E+07	1.768E+07	1.011E+07	1.023E+07	6.485E+06	6.700E+06
75	7.321E+07	7.353E+07	3.257E+07	3.150E+07	1.834E+07	1.829E+07	8.164E+06	8.586E+06	4.602E+06	4.841E+06	2.951E+06	3.037E+06
90	4.022E+07	3.993E+07	1.789E+07	1.913E+07	1.007E+07	1.041E+07	4.486E+06	4.526E+06	2.528E+06	2.395E+06	1.621E+06	1.725E+06
120	1.787E+07	1.487E+07	7.952E+06	6.241E+06	4.477E+06	3.549E+06	1.994E+06	1.705E+06	1.124E+06	1.044E+06	7.205E+05	7.470E+05
150	1.155E+07	1.510E+07	5.138E+06	7.391E+06	2.893E+06	4.441E+06	1.288E+06	2.158E+06	7.261E+05	1.289E+06	4.656E+05	8.632E+05
179	1.006E+07	1.961E+07	4.473E+06	9.140E+06	2.519E+06	5.321E+06	1.122E+06	2.484E+06	6.321E+05	1.447E+06	4.053E+05	9.509E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	3.579E+13	3.582E+13	1.764E+13	1.765E+13	7.914E+12	7.922E+12	4.493E+12	4.498E+12	2.034E+12	2.036E+12	1.164E+12	1.166E+12
2	2.237E+12	2.240E+12	1.103E+12	1.104E+12	4.947E+11	4.953E+11	2.809E+11	2.813E+11	1.271E+11	1.274E+11	7.279E+10	7.298E+10
3	4.424E+11	4.425E+11	2.179E+11	2.182E+11	9.775E+10	9.792E+10	5.550E+10	5.561E+10	2.512E+10	2.519E+10	1.438E+10	1.444E+10
4	1.399E+11	1.401E+11	6.896E+10	6.906E+10	3.094E+10	3.101E+10	1.757E+10	1.761E+10	7.950E+09	7.982E+09	4.552E+09	4.572E+09
6	2.767E+10	2.771E+10	1.364E+10	1.367E+10	6.117E+09	6.131E+09	3.473E+09	3.487E+09	1.572E+09	1.580E+09	9.001E+08	9.047E+08
8	8.767E+09	8.784E+09	4.320E+09	4.331E+09	1.938E+09	1.946E+09	1.101E+09	1.107E+09	4.981E+08	5.006E+08	2.852E+08	2.871E+08
10	3.597E+09	3.609E+09	1.773E+09	1.776E+09	7.954E+08	8.001E+08	4.516E+08	4.542E+08	2.044E+08	2.055E+08	1.170E+08	1.182E+08
15	7.151E+08	7.162E+08	3.524E+08	3.548E+08	1.581E+08	1.589E+08	8.977E+07	9.010E+07	4.063E+07	4.120E+07	2.326E+07	2.379E+07
20	2.283E+08	2.297E+08	1.125E+08	1.133E+08	5.048E+07	5.058E+07	2.866E+07	2.896E+07	1.297E+07	1.331E+07	7.427E+06	7.647E+06
30	4.626E+07	4.634E+07	2.280E+07	2.281E+07	1.023E+07	1.046E+07	5.807E+06	5.996E+06	2.628E+06	2.694E+06	1.505E+06	1.522E+06
45	9.679E+06	9.802E+06	4.770E+06	4.934E+06	2.140E+06	2.194E+06	1.215E+06	1.219E+06	5.499E+05	5.377E+05	3.149E+05	3.082E+05
60	3.321E+06	3.453E+06	1.637E+06	1.654E+06	7.343E+05	7.107E+05	4.169E+05	3.978E+05	1.887E+05	1.842E+05	1.080E+05	1.106E+05
75	1.511E+06	1.477E+06	7.449E+05	6.953E+05	3.342E+05	3.102E+05	1.897E+05	1.823E+05	8.588E+04	9.050E+04	4.917E+04	5.643E+04
90	8.303E+05	7.240E+05	4.092E+05	3.659E+05	1.836E+05	1.782E+05	1.042E+05	1.101E+05	4.718E+04	5.701E+04	2.701E+04	3.597E+04
120	3.690E+05	4.144E+05	1.819E+05	2.307E+05	8.159E+04	1.177E+05	4.632E+04	7.260E+04	2.097E+04	3.635E+04	1.200E+04	2.208E+04
150	2.385E+05	4.700E+05	1.175E+05	2.456E+05	5.272E+04	1.167E+05	2.993E+04	6.844E+04	1.355E+04	3.198E+04	7.757E+03	1.850E+04
179	2.076E+05	5.046E+05	1.023E+05	2.572E+05	4.590E+04	1.190E+05	2.606E+04	6.858E+04	1.180E+04	3.126E+04	6.754E+03	1.776E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	7.582E+11	7.594E+11	3.998E+11	4.007E+11	2.052E+11	2.058E+11	9.785E+10	9.817E+10	5.858E+10	5.881E+10	2.894E+10	2.908E+10
2	4.739E+10	4.754E+10	2.499E+10	2.508E+10	1.283E+10	1.289E+10	6.116E+09	6.155E+09	3.662E+09	3.690E+09	1.809E+09	1.827E+09
3	9.364E+09	9.402E+09	4.938E+09	4.962E+09	2.539E+09	2.552E+09	1.208E+09	1.220E+09	7.234E+08	7.320E+08	3.574E+08	3.626E+08
4	2.964E+09	2.978E+09	1.563E+09	1.573E+09	8.024E+08	8.101E+08	3.825E+08	3.876E+08	2.290E+08	2.325E+08	1.131E+08	1.152E+08
6	5.861E+08	5.899E+08	3.091E+08	3.124E+08	1.587E+08	1.611E+08	7.563E+07	7.711E+07	4.528E+07	4.626E+07	2.237E+07	2.292E+07
8	1.857E+08	1.876E+08	9.793E+07	9.954E+07	5.027E+07	5.132E+07	2.396E+07	2.453E+07	1.435E+07	1.471E+07	7.088E+06	7.298E+06
10	7.620E+07	7.737E+07	4.019E+07	4.105E+07	2.063E+07	2.113E+07	9.834E+06	1.009E+07	5.887E+06	6.052E+06	2.909E+06	3.007E+06
15	1.515E+07	1.555E+07	7.988E+06	8.200E+06	4.101E+06	4.200E+06	1.955E+06	2.006E+06	1.170E+06	1.208E+06	5.782E+05	6.048E+05
20	4.836E+06	4.967E+06	2.550E+06	2.602E+06	1.309E+06	1.333E+06	6.241E+05	6.412E+05	3.736E+05	3.892E+05	1.846E+05	1.973E+05
30	9.798E+05	9.829E+05	5.167E+05	5.177E+05	2.673E+05	2.705E+05	1.265E+05	1.343E+05	7.570E+04	8.338E+04	3.740E+04	4.343E+04
45	2.050E+05	2.037E+05	1.081E+05	1.124E+05	5.550E+04	6.185E+04	2.646E+04	3.227E+04	1.584E+04	2.050E+04	7.826E+03	1.101E+04
60	7.035E+04	7.572E+04	3.710E+04	4.370E+04	1.904E+04	2.485E+04	9.079E+03	1.325E+04	5.435E+03	8.155E+03	2.685E+03	4.578E+03
75	3.201E+04	3.945E+04	1.688E+04	2.318E+04	8.667E+03	1.326E+04	4.132E+03	7.039E+03	2.473E+03	4.496E+03	1.222E+03	2.391E+03
90	1.759E+04	2.518E+04	9.275E+03	1.469E+04	4.761E+03	8.240E+03	2.270E+03	4.303E+03	1.359E+03	2.704E+03	6.713E+02	1.406E+03
120	7.817E+03	1.494E+04	4.122E+03	8.228E+03	2.116E+03	4.338E+03	1.009E+03	2.078E+03	6.039E+02	1.229E+03	2.984E+02	5.864E+02
150	5.051E+03	1.203E+04	2.664E+03	6.226E+03	1.367E+03	3.049E+03	6.518E+02	1.325E+03	3.902E+02	7.221E+02	1.928E+02	3.008E+02
179	4.398E+03	1.138E+04	2.319E+03	5.747E+03	1.190E+03	2.729E+03	5.675E+02	1.133E+03	3.397E+02	5.918E+02	1.679E+02	2.266E+02

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.775E+10	1.786E+10	1.222E+10	1.229E+10	6.986E+09	7.032E+09	3.865E+09	3.893E+09	1.956E+09	1.971E+09	1.195E+09	1.204E+09
2	1.110E+09	1.122E+09	7.636E+08	7.726E+08	4.367E+08	4.433E+08	2.416E+08	2.449E+08	1.223E+08	1.240E+08	7.467E+07	7.576E+07
3	2.193E+08	2.227E+08	1.509E+08	1.534E+08	8.628E+07	8.785E+07	4.774E+07	4.866E+07	2.416E+07	2.465E+07	1.475E+07	1.506E+07
4	6.940E+07	7.080E+07	4.775E+07	4.877E+07	2.731E+07	2.794E+07	1.511E+07	1.549E+07	7.646E+06	7.846E+06	4.670E+06	4.795E+06
6	1.372E+07	1.417E+07	9.442E+06	9.719E+06	5.400E+06	5.573E+06	2.988E+06	3.091E+06	1.512E+06	1.567E+06	9.234E+05	9.582E+05
8	4.348E+06	4.493E+06	2.992E+06	3.100E+06	1.711E+06	1.780E+06	9.466E+05	9.886E+05	4.790E+05	5.018E+05	2.926E+05	3.069E+05
10	1.784E+06	1.854E+06	1.228E+06	1.281E+06	7.021E+05	7.367E+05	3.884E+05	4.098E+05	1.966E+05	2.082E+05	1.201E+05	1.274E+05
15	3.547E+05	3.752E+05	2.441E+05	2.604E+05	1.396E+05	1.506E+05	7.722E+04	8.412E+04	3.908E+04	4.289E+04	2.387E+04	2.628E+04
20	1.132E+05	1.233E+05	7.791E+04	8.602E+04	4.455E+04	5.007E+04	2.465E+04	2.810E+04	1.247E+04	1.438E+04	7.619E+03	8.826E+03
30	2.294E+04	2.757E+04	1.579E+04	1.942E+04	9.028E+03	1.143E+04	4.995E+03	6.466E+03	2.528E+03	3.327E+03	1.544E+03	2.047E+03
45	4.801E+03	7.081E+03	3.303E+03	5.024E+03	1.889E+03	2.940E+03	1.045E+03	1.695E+03	5.289E+02	8.753E+02	3.230E+02	5.394E+02
60	1.647E+03	2.946E+03	1.133E+03	2.089E+03	6.442E+02	1.238E+03	3.586E+02	7.035E+02	1.815E+02	3.629E+02	1.108E+02	2.235E+02
75	7.497E+02	1.527E+03	5.158E+02	1.077E+03	2.950E+02	6.340E+02	1.632E+02	3.582E+02	8.259E+01	1.840E+02	5.044E+01	1.131E+02
90	4.118E+02	8.849E+02	2.834E+02	6.176E+02	1.620E+02	3.588E+02	9.666E+01	2.006E+02	4.537E+01	1.022E+02	2.771E+01	6.260E+01
120	1.838E+02	3.479E+02	1.259E+02	2.328E+02	7.202E+01	1.278E+02	3.985E+01	6.810E+01	2.016E+01	3.334E+01	1.232E+01	2.008E+01
150	1.183E+02	1.597E+02	8.138E+01	9.730E+01	4.654E+01	4.611E+01	2.575E+01	2.113E+01	1.303E+01	8.943E+00	7.958E+00	4.964E+00
179	1.030E+02	1.106E+02	7.085E+01	6.186E+01	4.052E+01	2.469E+01	2.242E+01	8.785E+00	1.134E+01	2.513E+00	6.929E+00	9.861E-01
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	5.863E+08	5.905E+08	3.490E+08	3.517E+08	2.319E+08	2.337E+08	1.238E+08	1.248E+08	6.294E+07	6.344E+07	2.883E+07	2.906E+07
2	3.663E+07	3.718E+07	2.182E+07	2.214E+07	1.449E+07	1.471E+07	7.740E+06	7.857E+06	3.935E+06	3.994E+06	1.802E+06	1.829E+06
3	7.233E+06	7.391E+06	4.311E+06	4.403E+06	2.864E+06	2.925E+06	1.529E+06	1.562E+06	7.774E+05	7.941E+05	3.561E+05	3.638E+05
4	2.291E+06	2.353E+06	1.364E+06	1.402E+06	9.064E+05	9.314E+05	4.341E+05	4.975E+05	2.461E+05	2.529E+05	1.127E+05	1.158E+05
6	4.530E+05	4.704E+05	2.698E+05	2.803E+05	1.792E+05	1.862E+05	9.571E+04	9.947E+04	4.865E+04	5.057E+04	2.228E+04	2.316E+04
8	1.435E+05	1.507E+05	8.548E+04	8.982E+04	5.679E+04	5.968E+04	3.033E+04	3.188E+04	1.542E+04	1.621E+04	7.061E+03	7.425E+03
10	5.898E+04	6.261E+04	3.508E+04	3.732E+04	2.330E+04	2.440E+04	1.244E+04	1.325E+04	6.326E+03	6.736E+03	2.897E+03	3.086E+03
15	1.171E+04	1.293E+04	6.973E+03	7.712E+03	4.632E+03	5.126E+03	2.474E+03	2.739E+03	1.258E+03	1.393E+03	5.760E+02	6.381E+02
20	3.738E+03	4.348E+03	2.226E+03	2.594E+03	1.479E+03	1.755E+03	7.898E+02	9.220E+02	4.014E+02	4.689E+02	1.839E+02	2.148E+02
30	7.574E+02	1.011E+03	4.511E+02	6.036E+02	2.996E+02	4.015E+02	1.600E+02	2.147E+02	8.134E+01	1.092E+02	3.726E+01	5.004E+01
45	1.585E+02	2.667E+02	9.438E+01	1.593E+02	6.269E+01	1.060E+02	3.348E+01	5.669E+01	1.702E+01	2.884E+01	7.796E+00	1.322E+01
60	5.438E+01	1.104E+02	3.238E+01	6.597E+01	2.151E+01	4.349E+01	1.149E+01	2.347E+01	5.840E+00	1.194E+01	2.675E+00	5.471E+00
75	2.475E+01	5.578E+01	1.474E+01	3.329E+01	9.790E+00	2.214E+01	5.229E+00	1.184E+01	2.658E+00	6.021E+00	1.217E+00	2.759E+00
90	1.359E+01	3.078E+01	8.096E+00	1.835E+01	5.378E+00	1.219E+01	2.872E+00	6.515E+00	1.460E+00	3.313E+00	6.688E+00	1.517E+00
120	6.042E+00	9.714E+00	3.598E+00	5.752E+00	2.390E+00	3.809E+00	1.277E+00	2.029E+00	6.489E+00	1.030E+00	2.972E+00	4.712E+00
150	3.904E+00	2.221E+00	2.325E+00	1.270E+00	1.545E+00	8.242E+00	8.249E+00	4.324E+00	4.193E+00	2.172E+00	1.921E+00	9.882E-02
179	3.399E+00	2.84E-01	2.024E+00	9.012E-02	1.345E+00	4.039E-02	7.182E-01	1.182E-02	3.651E-01	3.177E-03	1.672E-01	7.241E-04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.647E+07	1.660E+07	7.439E+06	7.497E+06	4.219E+06	4.252E+06	2.713E+06	2.735E+06	1.392E+06	1.403E+06	6.851E+05	6.905E+05
2	1.030E+06	1.045E+06	4.650E+05	4.720E+05	2.637E+05	2.677E+05	1.696E+05	1.722E+05	8.703E+04	8.834E+04	4.283E+04	4.347E+04
3	2.034E+05	2.077E+05	9.188E+04	9.388E+04	5.210E+04	5.323E+04	3.351E+04	3.423E+04	1.719E+04	1.757E+04	8.462E+03	8.645E+03
4	6.439E+04	6.618E+04	2.908E+04	2.989E+04	1.649E+04	1.695E+04	1.061E+04	1.090E+04	5.442E+03	5.594E+03	2.678E+03	2.753E+03
6	1.273E+04	1.323E+04	5.750E+03	5.977E+03	3.661E+03	3.900E+03	2.097E+03	2.180E+03	1.076E+03	1.119E+03	5.296E+02	5.505E+02
8	4.034E+03	4.242E+03	1.822E+03	1.916E+03	1.033E+03	1.087E+03	6.645E+02	6.988E+02	3.410E+02	3.586E+02	1.678E+02	1.765E+02
10	1.655E+03	1.763E+03	7.476E+02	7.962E+02	4.240E+02	4.515E+02	2.272E+02	2.904E+02	1.399E+02	1.490E+02	6.886E+01	7.333E+01
15	3.291E+02	3.646E+02	1.486E+02	1.647E+02	8.428E+01	9.339E+01	5.421E+01	6.007E+01	2.782E+01	3.082E+01	1.369E+01	1.517E+01
20	1.051E+02	1.228E+02	4.745E+01	5.544E+01	2.691E+01	3.144E+01	1.731E+01	2.022E+01	8.880E+00	1.038E+01	4.370E+00	5.107E+00
30	2.129E+01	2.859E+01	9.614E+00	1.293E+01	5.452E+00	7.354E+00	3.507E+00	4.711E+00	1.799E+00	2.417E+00	8.854E+00	1.190E+00
45	4.454E+00	7.553E+00	2.011E+00	3.411E+00	1.141E+00	1.935E+00	7.337E+00	1.244E+00	3.765E+00	6.385E+00	1.853E+00	3.142E+00
60	1.528E+00	3.127E+00	6.902E+00	1.412E+00	3.914E+00	8.009E+00	2.518E+00	5.151E+00	1.292E+00	2.643E+00	6.357E+00	1.301E+00
75	6.958E+01	1.576E+00	3.141E+01	7.120E+01	1.781E+01	4.038E+01	1.146E+01	2.597E+01	5.879E+02	1.333E-01	2.893E+02	6.558E-02
90	3.821E+01	8.670E-01	1.726E+01	3.918E-01	9.786E+02	2.221E-01	6.294E+02	1.428E-01	3.229E+02	7.329E-02	1.589E+02	3.607E-02
120	1.698E+01	2.691E-01	7.669E+02	1.215E-01	4.349E+02	6.909E-02	2.797E+02	4.431E-02	1.435E+02	2.274E-02	7.063E+02	1.119E-02
150	1.097E+01	5.632E-02	4.956E+02	2.539E-02	2.810E+02	1.439E-02	1.808E+02	9.252E-03	9.275E+03	4.746E-03	4.564E+03	2.335E-03
179	9.584E-02	2.619E-04	4.315E-02	6.805E-05	2.447E-02	2.843E-05	1.574E-02	1.523E-05	8.075E-03	6.438E-06	3.974E+03	2.005E-06

AC (R9)

(BARNES/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.773E+15	1.774E+15	7.889E+14	7.893E+14	4.442E+14	4.444E+14	1.978E+14	1.979E+14	1.115E+14	1.116E+14	7.148E+13	7.153E+13
2	1.108E+14	1.109E+14	4.931E+13	4.934E+13	2.777E+13	2.778E+13	1.236E+13	1.237E+13	6.968E+12	6.974E+12	4.468E+12	4.472E+12
3	2.190E+12	2.192E+13	9.743E+12	9.750E+12	5.486E+12	5.490E+12	2.443E+12	2.445E+12	1.377E+12	1.378E+12	8.629E+11	8.637E+11
4	6.932E+12	6.937E+12	3.084E+12	3.086E+12	1.736E+12	1.738E+12	7.732E+11	7.739E+11	4.354E+11	4.362E+11	2.794E+11	2.798E+11
6	1.371E+12	1.372E+12	6.098E+11	6.103E+11	3.433E+11	3.437E+11	1.529E+11	1.530E+11	8.617E+10	8.628E+10	5.526E+10	5.532E+10
8	4.343E+11	4.347E+11	1.932E+11	1.934E+11	1.088E+11	1.089E+11	4.845E+10	4.851E+10	2.730E+10	2.734E+10	1.751E+10	1.754E+10
10	1.782E+11	1.784E+11	7.929E+10	7.935E+10	4.464E+10	4.469E+10	1.988E+10	1.990E+10	1.120E+10	1.123E+10	7.184E+09	7.194E+09
15	3.543E+10	3.544E+10	1.576E+10	1.577E+10	8.874E+09	8.886E+09	3.952E+09	3.961E+09	2.227E+09	2.230E+09	1.428E+09	1.434E+09
20	1.131E+10	1.132E+10	5.032E+09	5.038E+09	2.833E+09	2.840E+09	1.262E+09	1.263E+09	7.110E+08	7.139E+08	4.559E+08	4.564E+08
30	2.292E+09	2.292E+09	1.020E+09	1.021E+09	5.740E+08	5.757E+08	2.556E+08	2.556E+08	1.441E+08	1.444E+08	9.238E+07	9.239E+07
45	4.795E+08	4.797E+08	2.133E+08	2.133E+08	1.201E+08	1.200E+08	5.349E+07	5.410E+07	3.014E+07	3.006E+07	1.933E+07	1.918E+07
60	1.645E+08	1.628E+08	7.320E+07	7.455E+07	4.121E+07	4.127E+07	1.835E+07	1.805E+07	1.034E+07	1.043E+07	6.633E+06	6.844E+06
75	7.488E+07	7.556E+07	3.331E+07	3.217E+07	1.876E+07	1.862E+07	8.352E+06	8.776E+06	4.707E+06	4.969E+06	3.018E+06	3.123E+06
90	4.113E+07	4.057E+07	1.830E+07	1.954E+07	1.030E+07	1.110E+07	4.588E+06	4.666E+06	2.586E+06	2.467E+06	1.658E+06	1.511E+06
120	1.828E+07	1.527E+07	8.133E+06	6.351E+06	4.579E+06	3.592E+06	2.039E+06	1.719E+06	1.149E+06	1.053E+06	7.370E+05	7.272E+05
150	1.181E+07	1.539E+07	5.255E+06	7.552E+06	2.959E+06	4.546E+06	1.318E+06	2.214E+06	7.426E+05	1.325E+06	4.762E+05	8.882E+05
179	1.029E+07	2.025E+07	4.576E+06	9.446E+06	2.576E+06	5.503E+06	1.147E+06	2.571E+06	6.466E+05	1.499E+06	4.146E+05	9.588E+05
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	3.661E+13	3.664E+13	1.804E+13	1.806E+13	8.095E+12	8.103E+12	4.594E+12	4.601E+12	2.080E+12	2.083E+12	1.191E+12	1.193E+12
2	2.288E+12	2.291E+12	1.128E+12	1.129E+12	5.060E+11	5.066E+11	2.873E+11	2.878E+11	1.300E+11	1.303E+11	7.445E+10	7.446E+10
3	4.522E+11	4.527E+11	2.228E+11	2.231E+11	9.998E+10	1.002E+11	5.676E+10	5.688E+10	2.569E+10	2.576E+10	1.471E+10	1.477E+10
4	1.431E+11	1.433E+11	7.053E+10	7.063E+10	3.165E+10	3.172E+10	1.797E+10	1.801E+10	8.132E+09	8.164E+09	4.656E+09	4.677E+09
6	2.830E+10	2.834E+10	1.395E+10	1.398E+10	6.257E+09	6.272E+09	3.553E+09	3.567E+09	1.608E+09	1.616E+09	9.206E+08	9.254E+08
8	8.967E+09	8.983E+09	4.419E+09	4.431E+09	1.983E+09	1.990E+09	1.126E+09	1.132E+09	5.095E+08	5.121E+08	2.917E+08	2.936E+08
10	3.680E+09	3.691E+09	1.813E+09	1.817E+09	8.136E+08	8.144E+08	4.619E+08	4.648E+08	2.091E+08	2.102E+08	1.197E+08	1.209E+08
15	7.315E+08	7.325E+08	3.605E+08	3.628E+08	1.617E+08	1.626E+08	9.182E+07	9.215E+07	4.156E+07	4.211E+07	2.380E+07	2.433E+07
20	2.335E+08	2.348E+08	1.151E+08	1.159E+08	5.163E+07	5.172E+07	2.931E+07	2.959E+07	1.327E+07	1.362E+07	7.596E+06	7.830E+06
30	4.732E+07	4.745E+07	2.332E+07	2.331E+07	1.046E+07	1.068E+07	5.949E+06	6.137E+06	2.688E+06	2.762E+06	1.539E+06	1.560E+06
45	9.900E+06	1.000E+07	4.879E+06	5.048E+06	2.189E+06	2.251E+06	1.243E+06	1.250E+06	5.625E+05	5.503E+05	3.221E+05	3.145E+05
60	3.397E+06	3.540E+06	1.674E+06	1.699E+06	7.511E+05	7.286E+05	4.265E+05	4.305E+05	1.930E+05	1.874E+05	1.105E+05	1.123E+05
75	1.546E+06	1.519E+06	7.619E+05	7.123E+05	3.418E+05	3.140E+05	1.941E+05	1.851E+05	8.784E+04	9.176E+04	5.029E+04	5.726E+04
90	8.493E+05	7.442E+05	4.185E+05	3.715E+05	1.878E+05	1.804E+05	1.066E+05	1.114E+05	4.825E+04	5.788E+04	2.763E+04	3.662E+04
120	3.775E+05	4.195E+05	1.860E+05	2.343E+05	8.346E+04	1.201E+05	4.738E+04	7.429E+04	2.145E+04	3.735E+04	1.228E+04	2.275E+04
150	2.439E+05	4.845E+05	1.202E+05	2.537E+05	5.393E+04	1.208E+05	3.062E+04	7.096E+04	1.386E+04	3.323E+04	7.934E+03	1.925E+04
179	2.124E+05	5.236E+05	1.047E+05	2.672E+05	4.695E+04	1.238E+05	2.666E+04	7.143E+04	1.207E+04	3.261E+04	6.908E+03	1.855E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	7.755E+11	7.767E+11	4.090E+11	4.099E+11	2.099E+11	2.105E+11	1.001E+11	1.004E+11	5.991E+10	6.015E+10	2.968E+10	2.975E+10
2	4.848E+10	4.863E+10	2.557E+10	2.566E+10	1.312E+10	1.318E+10	6.256E+09	6.266E+09	3.745E+09	3.775E+09	1.850E+09	1.869E+09
3	9.578E+09	9.617E+09	5.051E+09	5.076E+09	2.593E+09	2.611E+09	1.236E+09	1.248E+09	7.400E+08	7.447E+08	3.656E+08	3.709E+08
4	3.032E+09	3.046E+09	1.599E+09	1.609E+09	8.207E+08	8.225E+08	3.912E+08	3.965E+08	2.342E+08	2.379E+08	1.157E+08	1.179E+08
6	5.995E+08	6.033E+08	3.161E+08	3.195E+08	1.623E+08	1.648E+08	7.736E+07	7.889E+07	4.631E+07	4.733E+07	2.288E+07	2.346E+07
8	1.899E+08	1.918E+08	1.002E+08	1.018E+08	5.142E+07	5.250E+07	2.451E+07	2.510E+07	1.467E+07	1.506E+07	7.250E+06	7.466E+06
10	7.794E+07	7.911E+07	4.110E+07	4.199E+07	2.110E+07	2.162E+07	1.006E+07	1.032E+07	6.022E+06	6.193E+06	2.975E+06	3.075E+06
15	1.549E+07	1.591E+07	8.171E+06	8.397E+06	4.194E+06	4.300E+06	2.000E+06	2.052E+06	1.197E+06	1.235E+06	5.914E+05	6.179E+05
20	4.946E+06	5.088E+06	2.608E+06	2.666E+06	1.339E+06	1.364E+06	6.383E+05	6.551E+05	3.821E+05	3.973E+05	1.888E+05	2.012E+05
30	1.002E+06	1.007E+06	5.285E+05	5.290E+05	2.713E+05	2.758E+05	1.293E+05	1.367E+05	7.743E+04	8.442E+04	3.826E+04	4.418E+04
45	2.097E+05	2.075E+05	1.106E+05	1.142E+05	5.677E+04	6.280E+04	2.706E+04	3.279E+04	1.620E+04	2.093E+04	8.005E+03	1.122E+04
60	7.196E+04	7.683E+04	3.795E+04	4.437E+04	1.948E+04	2.528E+04	9.286E+03	1.352E+04	5.559E+03	8.708E+03	2.747E+03	4.695E+03
75	3.275E+04	4.008E+04	1.727E+04	2.362E+04	8.865E+03	1.355E+04	4.226E+03	7.262E+03	2.530E+03	4.627E+03	1.250E+03	2.469E+03
90	1.799E+04	2.570E+04	9.487E+03	1.505E+04	4.870E+03	8.514E+03	3.322E+03	4.443E+03	1.390E+03	2.799E+03	6.867E+02	1.459E+03
120	7.995E+03	1.542E+04	4.216E+03	8.520E+03	2.164E+03	4.505E+03	1.032E+03	2.165E+03	6.177E+02	1.283E+03	3.052E+02	6.137E+02
150	5.166E+03	1.253E+04	2.725E+03	6.488E+03	1.399E+03	3.188E+03	6.667E+02	1.388E+03	3.991E+02	7.575E+02	1.972E+02	3.161E+02
179	4.498E+03	1.190E+04	2.372E+03	6.016E+03	1.218E+03	2.841E+03	5.805E+02	1.190E+03	3.475E+02	6.219E+02	1.717E+02	2.384E+02

AC (A9)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.816E+10	1.826E+10	1.249E+10	1.257E+10	7.145E+09	7.193E+09	3.953E+09	3.982E+09	2.001E+09	2.016E+09	1.222E+09	1.231E+09
2	1.135E+09	1.148E+09	7.810E+08	7.903E+08	4.467E+08	4.524E+08	2.471E+08	2.505E+08	1.251E+08	1.268E+08	7.638E+07	7.750E+07
3	2.243E+08	2.279E+08	1.543E+08	1.569E+08	8.825E+07	8.987E+07	4.883E+07	4.978E+07	2.471E+07	2.521E+07	1.509E+07	1.541E+07
4	7.099E+07	7.243E+07	4.884E+07	4.990E+07	2.793E+07	2.859E+07	1.545E+07	1.584E+07	7.821E+06	8.026E+06	4.777E+06	4.905E+06
6	1.404E+07	1.442E+07	9.658E+06	9.942E+06	5.523E+06	5.701E+06	3.056E+06	3.162E+06	1.546E+06	1.603E+06	9.445E+05	9.800E+05
8	4.448E+06	4.596E+06	3.060E+06	3.171E+06	1.750E+06	1.821E+06	9.683E+05	1.011E+06	4.900E+05	5.130E+05	2.993E+05	3.138E+05
10	1.825E+06	1.896E+06	1.256E+06	1.310E+06	7.181E+05	7.52E+05	3.973E+05	4.188E+05	2.011E+05	2.128E+05	1.228E+05	1.362E+05
15	3.628E+05	3.831E+05	2.496E+05	2.658E+05	1.428E+05	1.577E+05	7.898E+04	8.585E+04	3.997E+04	4.376E+04	2.441E+04	2.682E+04
20	1.158E+05	1.257E+05	7.969E+04	8.768E+04	4.557E+04	5.103E+04	2.521E+04	2.864E+04	1.276E+04	1.465E+04	7.793E+03	8.996E+03
30	2.347E+04	2.806E+04	1.615E+04	1.976E+04	9.234E+03	1.144E+04	5.109E+03	6.587E+03	2.585E+03	3.390E+03	1.579E+03	2.087E+03
45	4.910E+03	7.227E+03	3.379E+03	5.132E+03	1.932E+03	3.048E+03	1.069E+03	1.735E+03	5.409E+02	8.964E+02	3.304E+02	5.526E+02
60	1.685E+03	3.026E+03	1.159E+03	2.149E+03	6.630E+02	1.275E+03	3.668E+02	7.253E+02	1.856E+02	3.744E+02	1.134E+02	2.307E+02
75	7.668E+02	1.580E+03	5.276E+02	1.116E+03	3.017E+02	6.575E+02	1.669E+02	3.719E+02	8.447E+01	1.911E+02	5.160E+01	1.175E+02
90	4.213E+02	9.201E+02	2.898E+02	6.433E+02	1.657E+02	3.742E+02	9.170E+01	2.095E+02	4.641E+01	1.068E+02	2.834E+01	6.545E+01
120	1.872E+02	3.648E+02	1.288E+02	2.444E+02	7.367E+01	1.343E+02	4.076E+01	7.167E+01	2.062E+01	3.517E+01	1.260E+01	2.116E+01
150	1.210E+02	1.680E+02	8.324E+01	1.025E+02	4.760E+01	4.861E+01	2.634E+01	2.230E+01	1.333E+01	9.452E+00	8.140E+00	5.251E+00
179	1.053E+02	1.164E+02	7.247E+01	6.515E+01	4.144E+01	2.602E+01	2.293E+01	9.259E+00	1.180E+01	2.649E+00	7.087E+00	1.040E+00
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	5.994E+08	6.341E+08	3.570E+08	3.598E+08	2.372E+08	2.390E+08	1.267E+08	1.277E+08	6.438E+07	6.489E+07	2.949E+07	2.972E+07
2	3.747E+07	3.803E+07	2.232E+07	2.265E+07	1.482E+07	1.505E+07	7.917E+06	8.037E+06	4.024E+06	4.085E+06	1.843E+06	1.871E+06
3	7.403E+06	7.561E+06	4.409E+06	4.504E+06	2.929E+06	2.992E+06	1.564E+06	1.598E+06	7.952E+05	8.124E+05	3.642E+05	3.721E+05
4	2.343E+06	2.407E+06	1.396E+06	1.434E+06	9.271E+05	9.57E+05	4.951E+05	5.089E+05	2.517E+05	2.587E+05	1.153E+05	1.185E+05
6	4.633E+05	4.811E+05	2.760E+05	2.867E+05	1.833E+05	1.905E+05	9.790E+04	1.017E+05	4.977E+04	5.172E+04	2.279E+04	2.369E+04
8	1.468E+05	1.541E+05	8.744E+04	9.183E+04	5.808E+04	6.102E+04	3.102E+04	3.260E+04	1.577E+04	1.657E+04	7.222E+03	7.591E+03
10	6.024E+04	6.398E+04	3.580E+04	3.813E+04	2.384E+04	2.544E+04	1.273E+04	1.354E+04	6.471E+03	6.883E+03	2.964E+03	3.153E+03
15	1.198E+04	1.320E+04	7.133E+03	7.870E+03	4.738E+03	5.231E+03	2.530E+03	2.795E+03	1.286E+03	1.421E+03	5.892E+02	6.512E+02
20	3.823E+03	4.322E+03	2.777E+03	2.644E+03	1.513E+03	1.748E+03	8.678E+02	9.399E+02	4.106E+02	4.780E+02	1.881E+02	2.190E+02
30	7.747E+02	1.030E+03	4.614E+02	6.153E+02	3.065E+02	4.093E+02	1.637E+02	2.189E+02	8.320E+01	1.113E+02	3.811E+01	5.102E+01
45	1.621E+02	2.733E+02	9.653E+01	1.633E+02	6.413E+01	1.086E+02	3.425E+01	5.811E+01	1.741E+01	2.956E+01	7.974E+00	1.355E+01
60	5.562E+01	1.140E+02	3.312E+01	6.812E+01	2.200E+01	4.542E+01	1.175E+01	2.424E+01	5.974E+00	1.233E+01	2.736E+00	5.650E+00
75	2.531E+01	5.800E+01	1.507E+01	3.462E+01	1.001E+01	2.303E+01	5.348E+00	1.231E+01	2.719E+00	6.262E+00	1.245E+00	2.869E+00
90	1.390E+01	3.219E+01	8.281E+00	1.919E+01	5.501E+00	1.276E+01	2.938E+00	6.816E+00	1.493E+00	3.466E+00	6.840E+01	1.588E+00
120	6.180E+00	1.024E+01	3.681E+00	6.066E+00	2.445E+00	4.018E+00	1.306E+00	2.140E+00	6.637E+01	1.086E+00	3.040E+01	4.970E+01
150	3.993E+00	2.351E+00	2.378E+00	1.345E+00	1.580E+00	8.750E+01	8.438E+01	4.580E+01	4.289E+01	2.301E+01	1.964E+01	1.047E+01
179	3.477E+00	2.620E+01	2.071E+00	9.504E+02	1.376E+00	4.259E+02	7.346E+01	1.246E+02	3.734E+01	3.352E+03	1.710E+01	7.643E+04
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.685E+07	1.698E+07	7.609E+06	7.669E+06	4.315E+06	4.349E+06	2.775E+06	2.797E+06	1.424E+06	1.435E+06	7.008E+05	7.064E+05
2	1.053E+06	1.069E+06	4.756E+05	4.828E+05	2.697E+05	2.738E+05	1.735E+05	1.761E+05	8.902E+04	9.037E+04	4.381E+04	4.447E+04
3	2.081E+05	2.126E+05	9.397E+04	9.601E+04	5.329E+04	5.445E+04	3.428E+04	3.502E+04	1.759E+04	1.797E+04	8.655E+03	8.843E+03
4	6.586E+04	6.770E+04	2.974E+04	3.057E+04	1.687E+04	1.744E+04	1.085E+04	1.115E+04	5.567E+03	5.722E+03	2.740E+03	2.816E+03
6	1.302E+04	1.354E+04	5.881E+03	6.113E+03	3.335E+03	3.467E+03	2.145E+03	2.230E+03	1.101E+03	1.144E+03	5.417E+02	5.630E+02
8	4.127E+03	4.337E+03	1.864E+03	1.959E+03	1.057E+03	1.111E+03	6.797E+02	7.144E+02	3.488E+02	3.668E+02	1.716E+02	1.804E+02
10	1.693E+03	1.801E+03	7.647E+02	8.136E+02	4.337E+02	4.614E+02	2.789E+02	2.968E+02	1.431E+02	1.523E+02	7.043E+01	7.493E+01
15	3.366E+02	3.721E+02	1.520E+02	1.680E+02	8.621E+01	9.501E+01	5.545E+01	6.129E+01	2.845E+01	3.145E+01	1.400E+01	1.548E+01
20	1.075E+02	1.251E+02	4.853E+01	5.651E+01	2.752E+01	3.205E+01	1.770E+01	2.061E+01	9.083E+00	1.058E+01	4.470E+00	5.205E+00
30	2.177E+01	2.915E+01	9.833E+00	1.317E+01	5.577E+00	7.467E+00	3.587E+00	4.803E+00	1.840E+00	2.464E+00	9.057E+01	1.213E+00
45	4.556E+00	7.741E+00	2.057E+00	3.497E+00	1.167E+00	1.943E+00	7.504E+01	1.275E+00	3.851E+01	5.545E+01	1.895E+01	3.221E+01
60	1.563E+00	3.229E+00	7.060E+00	1.456E+00	4.004E+01	8.271E+01	2.575E+01	5.320E+01	1.321E+01	2.730E+01	6.502E+02	1.343E+01
75	7.114E+01	1.640E+00	3.213E+01	7.405E+01	1.822E+01	4.169E+01	1.172E+01	2.701E+01	6.013E+02	1.386E+01	2.959E+02	6.820E+02
90	3.908E+01	9.071E+01	1.765E+01	4.097E+01	1.001E+01	2.333E+01	6.438E+02	1.494E+01	3.303E+02	7.667E+02	1.626E+02	3.773E+02
120	1.737E+01	2.839E+01	7.845E+02	1.282E+01	4.449E+02	7.268E+02	2.861E+02	4.674E+02	1.468E+02	2.398E+02	7.225E+03	1.180E+02
150	1.122E+01	5.967E+02	5.069E+02	2.690E+02	2.875E+02	1.525E+02	1.849E+02	9.803E+03	9.487E+03	5.029E+03	4.668E+03	2.474E+03
179	9.772E+02	2.765E+04	4.413E+02	7.193E+05	2.503E+02	3.008E+05	1.610E+02	1.612E+05	8.260E+03	8.821E+06	4.065E+03	2.974E+06

TH (90)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.813E+15	1.814E+15	8.067E+14	8.072E+14	4.542E+14	4.545E+14	2.023E+14	2.024E+14	1.140E+14	1.141E+14	7.310E+13	7.315E+13
2	1.134E+14	1.134E+14	5.043E+13	5.046E+13	2.839E+13	2.841E+13	1.264E+13	1.265E+13	7.126E+12	7.131E+12	4.569E+12	4.573E+12
3	2.240E+13	2.241E+13	9.964E+12	9.970E+12	5.610E+12	5.614E+12	2.498E+12	2.500E+12	1.408E+12	1.409E+12	9.028E+11	9.036E+11
4	7.089E+12	7.094E+12	3.154E+12	3.156E+12	1.776E+12	1.777E+12	7.907E+11	7.914E+11	4.456E+11	4.460E+11	2.858E+11	2.861E+11
6	1.402E+12	1.403E+12	6.238E+11	6.241E+11	3.511E+11	3.514E+11	1.563E+11	1.565E+11	8.812E+10	8.824E+10	5.650E+10	5.657E+10
8	4.441E+11	4.445E+11	1.976E+11	1.978E+11	1.112E+11	1.114E+11	4.954E+10	4.961E+10	2.792E+10	2.795E+10	1.790E+10	1.794E+10
10	1.822E+11	1.824E+11	8.108E+10	8.115E+10	4.565E+10	4.570E+10	2.033E+10	2.035E+10	1.146E+10	1.148E+10	7.347E+09	7.358E+09
15	3.623E+10	3.627E+10	1.612E+10	1.613E+10	9.075E+09	9.089E+09	4.041E+09	4.051E+09	2.278E+09	2.280E+09	1.460E+09	1.466E+09
20	1.157E+10	1.158E+10	5.145E+09	5.153E+09	2.897E+09	2.903E+09	1.290E+09	1.291E+09	7.271E+08	7.303E+08	4.662E+08	4.668E+08
30	2.344E+09	2.344E+09	1.043E+09	1.044E+09	5.870E+08	5.884E+08	2.614E+08	2.615E+08	1.473E+08	1.477E+08	9.447E+07	9.540E+07
45	4.903E+08	4.899E+08	2.181E+08	2.184E+08	1.228E+08	1.225E+08	5.469E+07	5.537E+07	3.083E+07	3.078E+07	1.977E+07	1.960E+07
60	1.683E+08	1.663E+08	7.485E+07	7.624E+07	4.215E+07	4.233E+07	1.877E+07	1.843E+07	1.058E+07	1.063E+07	6.783E+06	6.987E+06
75	7.657E+07	7.762E+07	3.406E+07	3.286E+07	1.918E+07	1.895E+07	8.541E+06	8.962E+06	4.814E+06	5.097E+06	3.087E+06	3.211E+06
90	4.206E+07	4.119E+07	1.871E+07	1.994E+07	1.054E+07	1.140E+07	4.692E+06	4.811E+06	2.644E+06	2.540E+06	1.696E+06	1.553E+06
120	1.870E+07	1.568E+07	8.317E+06	6.467E+06	4.083E+06	3.636E+06	2.085E+06	1.733E+06	1.175E+06	1.061E+06	7.536E+05	7.534E+05
150	1.208E+07	1.568E+07	5.374E+06	7.712E+06	3.026E+06	4.050E+06	1.347E+06	2.270E+06	7.594E+05	1.361E+06	4.870E+05	9.134E+05
179	1.052E+07	2.090E+07	4.679E+06	9.759E+06	2.635E+06	5.689E+06	1.173E+06	2.661E+06	6.612E+05	1.552E+06	4.240E+05	1.022E+06
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	3.744E+13	3.747E+13	1.845E+13	1.847E+13	8.278E+12	8.286E+12	4.700E+12	4.705E+12	2.127E+12	2.130E+12	1.218E+12	1.220E+12
2	2.340E+12	2.343E+12	1.153E+12	1.155E+12	5.175E+11	5.181E+11	2.938E+11	2.943E+11	1.330E+11	1.332E+11	7.613E+10	7.633E+10
3	4.624E+11	4.629E+11	2.279E+11	2.282E+11	1.022E+11	1.024E+11	5.805E+10	5.817E+10	2.627E+10	2.634E+10	1.504E+10	1.510E+10
4	1.464E+11	1.465E+11	7.213E+10	7.223E+10	3.236E+10	3.244E+10	1.837E+10	1.841E+10	8.316E+09	8.349E+09	4.761E+09	4.783E+09
6	2.894E+10	2.899E+10	1.426E+10	1.430E+10	6.399E+09	6.413E+09	3.633E+09	3.647E+09	1.644E+09	1.653E+09	9.414E+08	9.464E+08
8	9.170E+09	9.185E+09	4.519E+09	4.532E+09	2.027E+09	2.034E+09	1.151E+09	1.158E+09	5.210E+08	5.238E+08	2.983E+08	3.002E+08
10	3.763E+09	3.775E+09	1.854E+09	1.858E+09	8.320E+08	8.367E+08	4.724E+08	4.754E+08	2.138E+08	2.149E+08	1.224E+08	1.235E+08
15	7.480E+08	7.492E+08	3.686E+08	3.709E+08	1.654E+08	1.664E+08	9.390E+07	9.423E+07	4.250E+07	4.302E+07	2.433E+07	2.488E+07
20	2.388E+08	2.400E+08	1.177E+08	1.186E+08	5.280E+07	5.288E+07	2.998E+07	3.023E+07	1.357E+07	1.392E+07	7.768E+06	8.015E+06
30	4.838E+07	4.858E+07	2.384E+07	2.382E+07	1.070E+07	1.091E+07	6.074E+06	6.278E+06	2.749E+06	2.831E+06	1.574E+06	1.599E+06
45	1.012E+07	1.021E+07	4.989E+06	5.161E+06	2.238E+06	2.308E+06	1.271E+06	1.283E+06	5.752E+05	5.633E+05	3.293E+05	3.210E+05
60	3.474E+06	3.528E+06	1.712E+06	1.745E+06	7.681E+05	7.471E+05	4.361E+05	4.155E+05	1.974E+05	1.906E+05	1.130E+05	1.139E+05
75	1.581E+06	1.562E+06	7.791E+05	7.300E+05	3.495E+05	3.220E+05	1.985E+05	1.879E+05	8.982E+04	9.298E+04	5.143E+04	5.805E+04
90	8.685E+05	7.601E+05	4.280E+05	3.772E+05	1.920E+05	1.825E+05	1.090E+05	1.128E+05	4.935E+04	5.872E+04	2.825E+04	3.726E+04
120	3.860E+05	4.242E+05	1.902E+05	2.378E+05	8.534E+04	1.224E+05	4.845E+04	7.596E+04	2.193E+04	3.835E+04	1.256E+04	2.343E+04
150	2.494E+05	4.992E+05	1.229E+05	2.619E+05	5.515E+04	1.240E+05	3.131E+04	7.354E+04	1.417E+04	3.452E+04	8.114E+03	2.002E+04
179	2.172E+05	5.432E+05	1.070E+05	2.775E+05	4.801E+04	1.288E+05	2.726E+04	7.437E+04	1.234E+04	3.401E+04	7.064E+03	1.936E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	7.930E+11	7.943E+11	4.182E+11	4.192E+11	2.147E+11	2.153E+11	1.023E+11	1.027E+11	6.127E+10	6.151E+10	3.027E+10	3.042E+10
2	4.957E+10	4.973E+10	2.514E+10	2.524E+10	1.342E+10	1.348E+10	6.397E+09	6.438E+09	3.830E+09	3.860E+09	1.692E+09	1.911E+09
3	9.795E+09	9.836E+09	5.165E+09	5.190E+09	2.651E+09	2.669E+09	1.264E+09	1.276E+09	7.567E+08	7.656E+08	3.739E+08	3.793E+08
4	3.100E+09	3.115E+09	1.635E+09	1.645E+09	8.392E+08	8.471E+08	4.001E+08	4.054E+08	2.395E+08	2.433E+08	1.183E+08	1.206E+08
6	6.130E+08	6.169E+08	3.233E+08	3.266E+08	1.659E+08	1.685E+08	7.911E+07	8.066E+07	4.736E+07	4.841E+07	2.340E+07	2.399E+07
8	1.942E+08	1.961E+08	1.024E+08	1.041E+08	5.258E+07	5.370E+07	2.507E+07	2.568E+07	1.501E+07	1.540E+07	7.414E+06	7.637E+06
10	7.970E+07	8.096E+07	4.203E+07	4.295E+07	2.158E+07	2.213E+07	1.029E+07	1.037E+07	6.158E+06	6.336E+06	3.042E+06	3.145E+06
15	1.584E+07	1.628E+07	8.356E+06	8.597E+06	4.289E+06	4.403E+06	2.045E+06	2.099E+06	1.224E+06	1.262E+06	6.048E+05	6.311E+05
20	5.058E+06	5.212E+06	2.667E+06	2.730E+06	1.369E+06	1.395E+06	6.528E+05	6.693E+05	3.908E+05	4.055E+05	1.931E+05	2.051E+05
30	1.025E+06	1.031E+06	5.405E+05	5.407E+05	2.774E+05	2.812E+05	1.323E+05	1.391E+05	7.918E+04	8.128E+04	3.912E+04	4.492E+04
45	2.144E+05	2.113E+05	1.131E+05	1.161E+05	5.805E+04	6.374E+04	2.767E+04	3.330E+04	1.657E+04	2.626E+04	8.186E+03	1.143E+04
60	7.358E+04	7.792E+04	3.881E+04	4.501E+04	1.992E+04	2.570E+04	9.496E+03	1.378E+04	5.685E+03	8.897E+03	2.809E+03	4.811E+03
75	3.349E+04	4.069E+04	1.766E+04	2.404E+04	9.065E+03	1.385E+04	4.322E+03	7.412E+03	2.587E+03	4.759E+03	1.278E+03	2.547E+03
90	1.840E+04	2.621E+04	9.701E+03	1.541E+04	4.980E+03	8.749E+03	2.374E+03	4.585E+03	1.421E+03	2.895E+03	7.022E+02	1.515E+03
120	8.176E+03	1.591E+04	4.312E+03	8.818E+03	2.213E+03	4.676E+03	1.055E+03	2.254E+03	6.317E+02	1.339E+03	3.121E+02	6.422E+02
150	5.263E+03	1.306E+04	2.786E+03	6.781E+03	1.430E+03	3.373E+03	6.818E+02	1.454E+03	4.082E+02	7.946E+02	2.017E+02	3.321E+02
179	4.600E+03	1.243E+04	2.426E+03	6.296E+03	1.245E+03	2.999E+03	5.936E+02	1.249E+03	3.554E+02	6.536E+02	1.756E+02	2.508E+02

TH (90)

(BARN/STERACIAN)

	RUTH		MOTT		RUTH		MOTT		RUTH		MOTT		RUTH		MOTT		RUTH		MOTT					
DEG	4.0E-01MEV				5.0E-01MEV				7.0E-01MEV				1.0E+00MEV				1.5E+00MEV				2.0E+00MEV			
1	1.857E+10	1.867E+10	1.278E+10	1.285E+10	7.307E+09	7.355E+09	4.043E+09	4.072E+09	2.046E+09	2.061E+09	1.250E+09	1.259E+09												
2	1.161E+09	1.174E+09	7.987E+08	8.082E+08	4.567E+08	4.626E+08	2.527E+08	2.561E+08	1.279E+08	1.297E+08	7.811E+07	7.926E+07												
3	2.294E+08	2.330E+08	1.578E+08	1.605E+08	9.024E+07	9.191E+07	4.993E+07	5.091E+07	2.527E+07	2.579E+07	1.543E+07	1.576E+07												
4	7.260E+07	7.408E+07	4.995E+07	5.163E+07	2.856E+07	2.924E+07	1.580E+07	1.620E+07	7.997E+06	8.208E+06	4.885E+06	5.016E+06												
6	1.435E+07	1.475E+07	9.876E+06	1.017E+07	5.648E+06	5.870E+06	3.125E+06	3.233E+06	1.581E+06	1.639E+06	9.659E+05	1.002E+06												
8	4.548E+06	4.700E+06	3.129E+06	3.243E+06	1.790E+06	1.841E+06	9.901E+05	1.033E+06	5.011E+05	5.244E+05	3.060E+05	3.207E+05												
10	1.866E+06	1.938E+06	1.284E+06	1.339E+06	7.344E+05	7.698E+05	4.063E+05	4.279E+05	2.056E+05	2.174E+05	1.256E+05	1.330E+05												
15	3.710E+05	3.912E+05	2.553E+05	2.713E+05	1.460E+05	1.569E+05	8.077E+04	8.759E+04	4.087E+04	4.465E+04	2.496E+04	2.736E+04												
20	1.184E+05	1.281E+05	8.149E+04	8.934E+04	4.660E+04	5.200E+04	2.578E+04	2.918E+04	1.305E+04	1.493E+04	7.969E+03	9.166E+03												
30	2.800E+04	2.853E+04	1.651E+04	2.011E+04	9.443E+03	1.184E+04	5.225E+03	6.706E+03	2.644E+03	3.453E+03	1.615E+03	2.125E+03												
45	5.021E+03	7.369E+03	3.455E+03	5.238E+03	1.976E+03	3.114E+03	1.093E+03	1.774E+03	5.532E+02	9.174E+02	3.379E+02	5.657E+02												
60	1.723E+03	3.107E+03	1.186E+03	2.209E+03	6.786E+02	1.313E+03	3.751E+02	7.473E+02	1.898E+02	3.861E+02	1.159E+02	2.380E+02												
75	7.841E+02	1.633E+03	5.395E+02	1.155E+03	3.085E+02	6.816E+02	1.707E+02	3.859E+02	8.638E+01	1.985E+02	5.276E+01	1.221E+02												
90	4.308E+02	9.568E+02	2.964E+02	6.698E+02	1.695E+02	3.902E+02	9.378E+01	2.187E+02	4.745E+01	1.116E+02	2.898E+01	6.841E+01												
120	1.915E+02	3.824E+02	1.317E+02	2.564E+02	7.533E+01	1.412E+02	4.188E+01	7.542E+01	2.109E+01	3.705E+01	1.288E+01	2.230E+01												
150	1.237E+02	1.767E+02	8.512E+01	1.079E+02	4.868E+01	5.125E+01	2.693E+01	2.354E+01	1.363E+01	9.991E+00	8.324E+00	5.554E+00												
179	1.077E+02	1.225E+02	7.411E+01	6.861E+01	4.238E+01	2.741E+01	2.345E+01	9.759E+00	1.187E+01	2.793E+00	7.247E+00	1.096E+00												
DEG	3.0E+00MEV				4.0E+00MEV				5.0E+00MEV				7.0E+00MEV				1.0E+01MEV				1.5E+01MEV			
1	6.130E+08	6.178E+08	3.651E+08	3.680E+08	2.425E+08	2.445E+08	1.295E+08	1.306E+08	6.504E+07	6.636E+07	3.015E+07	3.040E+07												
2	3.832E+07	3.889E+07	2.282E+07	2.316E+07	1.516E+07	1.539E+07	8.096E+06	8.219E+06	4.115E+06	4.178E+06	1.885E+06	1.914E+06												
3	7.571E+06	7.732E+06	4.509E+06	4.606E+06	2.995E+06	3.060E+06	1.600E+06	1.634E+06	8.131E+05	8.308E+05	3.724E+05	3.805E+05												
4	2.396E+06	2.462E+06	1.427E+06	1.467E+06	9.480E+05	9.744E+05	5.063E+05	5.204E+05	2.574E+05	2.646E+05	1.179E+05	1.212E+05												
6	4.738E+05	4.920E+05	2.822E+05	2.931E+05	1.875E+05	1.947E+05	1.001E+05	1.040E+05	5.089E+04	5.288E+04	2.331E+04	2.422E+04												
8	1.501E+05	1.575E+05	8.941E+04	9.386E+04	5.940E+04	6.237E+04	3.172E+04	3.332E+04	1.612E+04	1.694E+04	7.386E+03	7.759E+03												
10	6.161E+04	6.537E+04	3.669E+04	3.866E+04	2.437E+04	2.589E+04	1.302E+04	1.383E+04	6.617E+03	7.032E+03	3.031E+03	3.221E+03												
15	1.225E+04	1.346E+04	7.294E+03	8.028E+03	4.845E+03	5.336E+03	2.598E+03	2.852E+03	1.315E+03	1.450E+03	6.025E+02	6.643E+02												
20	3.909E+03	4.516E+03	2.328E+03	2.694E+03	1.547E+03	1.792E+03	8.261E+02	9.576E+02	4.199E+02	4.870E+02	1.923E+02	2.312E+02												
30	7.922E+02	1.050E+03	4.718E+02	6.269E+02	3.134E+02	4.170E+02	1.674E+02	2.230E+02	8.568E+01	1.134E+02	3.897E+01	5.198E+01												
45	1.657E+02	2.798E+02	9.871E+01	1.672E+02	6.558E+01	1.113E+02	3.502E+01	5.951E+01	1.780E+01	3.028E+01	8.154E+00	1.388E+01												
60	5.687E+01	1.177E+02	3.387E+01	7.030E+01	2.250E+01	4.677E+01	1.202E+01	2.502E+01	6.109E+00	1.273E+01	2.798E+00	5.832E+00												
75	2.588E+01	6.028E+01	1.542E+01	3.599E+01	1.024E+01	2.394E+01	5.409E+00	1.280E+01	2.780E+00	6.510E+00	1.273E+00	2.983E+00												
90	1.422E+01	3.366E+01	8.468E+00	2.007E+01	5.626E+00	1.334E+01	3.004E+00	7.129E+00	1.527E+00	3.725E+00	6.995E+01	1.660E+00												
120	6.319E+00	1.080E+01	3.764E+00	6.396E+00	2.500E+00	4.237E+00	1.335E+00	2.257E+00	6.787E+01	1.145E+00	3.109E+01	5.242E+01												
150	4.083E+00	2.489E+00	2.432E+00	1.424E+00	1.616E+00	9.248E+01	8.628E+01	4.852E+01	4.386E+01	2.438E+01	2.009E+01	1.109E+01												
179	3.555E+00	2.762E+01	2.117E+00	1.002E+01	1.407E+00	4.492E+02	7.512E+01	1.315E+02	3.819E+01	3.536E+03	1.749E+01	8.667E+04												
DEG	2.0E+01MEV				3.0E+01MEV				4.0E+01MEV				5.0E+01MEV				7.0E+01MEV				1.0E+02MEV			
1	1.723E+07	1.736E+07	7.781E+06	7.842E+06	4.413E+06	4.447E+06	2.838E+06	2.860E+06	1.456E+06	1.468E+06	7.166E+05	7.223E+05												
2	1.077E+06	1.093E+06	4.864E+05	4.938E+05	2.758E+05	2.800E+05	1.774E+05	1.801E+05	9.103E+04	9.242E+04	4.480E+04	4.548E+04												
3	2.128E+05	2.174E+05	9.610E+04	9.819E+04	5.450E+04	5.568E+04	3.505E+04	3.581E+04	1.799E+04	1.838E+04	8.851E+03	9.044E+03												
4	6.735E+04	6.924E+04	3.042E+04	3.127E+04	1.725E+04	1.773E+04	1.104E+04	1.140E+04	5.693E+03	5.852E+03	2.801E+03	2.880E+03												
6	1.332E+04	1.384E+04	6.014E+03	6.250E+03	3.411E+03	3.545E+03	2.194E+03	2.286E+03	1.126E+03	1.170E+03	5.539E+02	5.757E+02												
8	4.228E+03	4.433E+03	1.906E+03	2.002E+03	1.081E+03	1.135E+03	6.951E+02	7.302E+02	3.567E+02	3.747E+02	1.755E+02	1.844E+02												
10	1.732E+03	1.840E+03	7.820E+02	8.312E+02	4.435E+02	4.714E+02	2.852E+02	3.032E+02	1.464E+02	1.556E+02	7.022E+01	7.655E+01												
15	3.442E+02	3.796E+02	1.555E+02	1.714E+02	8.816E+01	9.721E+01	5.670E+01	6.253E+01	2.909E+01	3.208E+01	4.32E+01	5.79E+01												
20	1.098E+02	1.275E+02	4.963E+01	5.758E+01	2.814E+01	3.264E+01	1.810E+01	2.100E+01	9.288E+00	1.078E+01	4.571E+00	5.304E+00												
30	2.227E+01	2.705E+01	1.006E+01	1.342E+01	5.703E+00	7.668E+00	3.668E+00	4.930E+00	1.882E+00	2.511E+00	9.261E+01	1.236E+00												
45	4.659E+00	7.929E+00	2.104E+00	3.581E+00	1.193E+00	2.031E+00	7.674E+01	1.306E+00	3.938E+01	6.703E+01	1.938E+01	3.299E+01												
60	1.599E+00	3.333E+00	7.220E+01	1.505E+00	4.094E+01	8.937E+01	2.633E+01	5.491E+01	1.351E+01	2.817E+01	6.649E+02	1.387E+01												
75	7.275E+01	1.705E+00	3.286E+01	7.699E+01	1.863E+01	4.366E+01	1.198E+01	2.808E+01	6.149E+02	1.441E+01	3.026E+02	7.091E+02												
90	3.997E+01	9.488E+01	1.805E+01	4.285E+01	1.024E+01	2.430E+01	6.583E+02	1.563E+01	3.378E+02	8.020E+02	1.662E+02	3.947E+02												
120	1.776E+01	2.994E+01	8.022E+02	1.352E+01	4.549E+02	7.666E+02	2.926E+02	4.930E+02	1.501E+02	2.530E+02	7.388E+01	1.245E+02												
150	1.148E+01	6.322E+02	5.183E+02	2.850E+02	2.940E+02	1.615E+02	1.891E+02	1.039E+02	9.701E+03	5.328E+03	4.774E+03	2.622E+03												
179	9.993E+02	2.929E+04	4.513E+02	7.604E+05	2.559E+02	3.182E+05	1.646E+02	1.707E+05	8.446E+03	7.227E+06	4.156E+03	3.153E+06												

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.854E+15	1.855E+15	8.247E+14	8.252E+14	4.644E+14	4.647E+14	2.068E+14	2.069E+14	1.165E+14	1.166E+14	7.473E+13	7.478E+13
2	1.159E+14	1.160E+14	5.155E+13	5.159E+13	2.963E+13	2.965E+13	1.293E+13	1.294E+13	7.285E+12	7.291E+12	4.677E+12	4.675E+12
3	2.290E+13	2.291E+13	1.019E+13	1.019E+13	5.735E+12	5.749E+12	2.554E+12	2.556E+12	1.439E+12	1.441E+12	9.230E+11	9.238E+11
4	7.247E+12	7.252E+12	3.224E+12	3.226E+12	1.815E+12	1.817E+12	8.084E+11	8.090E+11	4.566E+11	4.560E+11	2.921E+11	2.925E+11
6	1.433E+12	1.434E+12	6.375E+11	6.380E+11	3.589E+11	3.593E+11	1.598E+11	1.600E+11	9.009E+10	9.021E+10	5.777E+10	5.783E+10
8	4.541E+11	4.544E+11	2.020E+11	2.022E+11	1.137E+11	1.138E+11	5.065E+10	5.071E+10	2.854E+10	2.858E+10	1.830E+10	1.834E+10
10	1.863E+11	1.865E+11	8.289E+10	8.297E+10	4.667E+10	4.673E+10	2.078E+10	2.081E+10	1.171E+10	1.174E+10	7.511E+09	7.523E+09
15	3.704E+10	3.708E+10	1.648E+10	1.649E+10	9.278E+09	9.294E+09	4.131E+09	4.142E+09	2.328E+09	2.331E+09	1.493E+09	1.499E+09
20	1.182E+10	1.184E+10	5.260E+09	5.270E+09	2.962E+09	2.967E+09	1.319E+09	1.320E+09	7.433E+08	7.467E+08	4.766E+08	4.774E+08
30	2.396E+09	2.397E+09	1.066E+09	1.068E+09	6.001E+08	6.011E+08	2.672E+08	2.675E+08	1.506E+08	1.509E+08	9.658E+07	9.750E+07
45	5.013E+08	5.003E+08	2.230E+08	2.236E+08	1.256E+08	1.251E+08	5.592E+07	5.665E+07	3.151E+07	3.152E+07	2.021E+07	2.003E+07
60	1.720E+08	1.700E+08	7.653E+07	7.791E+07	4.309E+07	4.340E+07	1.919E+07	1.882E+07	1.081E+07	1.084E+07	6.934E+06	7.128E+06
75	7.828E+07	7.970E+07	3.483E+07	3.359E+07	1.961E+07	1.957E+07	8.732E+06	9.146E+06	4.921E+06	5.225E+06	3.156E+06	3.300E+06
90	4.300E+07	4.182E+07	1.913E+07	2.033E+07	1.077E+07	1.149E+07	4.797E+06	4.958E+06	2.703E+06	2.617E+06	1.734E+06	1.596E+06
120	1.911E+07	1.613E+07	8.503E+06	8.587E+06	4.788E+06	3.681E+06	2.132E+06	1.745E+06	1.202E+06	1.068E+06	7.705E+05	7.390E+05
150	1.235E+07	1.596E+07	5.494E+06	7.870E+06	3.094E+06	4.754E+06	1.378E+06	2.326E+06	7.764E+05	1.397E+06	4.979E+05	9.389E+05
179	1.075E+07	2.157E+07	4.784E+06	1.008E+07	2.693E+06	5.879E+06	1.199E+06	2.752E+06	6.760E+05	1.607E+06	4.335E+05	1.058E+06
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	3.828E+13	3.830E+13	1.886E+13	1.888E+13	8.463E+12	8.471E+12	4.805E+12	4.810E+12	2.175E+12	2.178E+12	1.245E+12	1.247E+12
2	2.393E+12	2.395E+12	1.179E+12	1.180E+12	5.290E+11	5.297E+11	3.004E+11	3.008E+11	1.359E+11	1.362E+11	7.783E+10	7.803E+10
3	4.727E+11	4.732E+11	2.330E+11	2.333E+11	1.045E+11	1.047E+11	5.934E+10	5.947E+10	2.686E+10	2.693E+10	1.538E+10	1.544E+10
4	1.496E+11	1.498E+11	7.374E+10	7.385E+10	3.308E+10	3.316E+10	1.878E+10	1.885E+10	8.502E+09	8.535E+09	4.868E+09	4.891E+09
6	2.959E+10	2.964E+10	1.458E+10	1.461E+10	6.542E+09	6.567E+09	3.714E+09	3.728E+09	1.681E+09	1.690E+09	9.625E+08	9.676E+08
8	9.375E+09	9.389E+09	4.620E+09	4.634E+09	2.073E+09	2.079E+09	1.177E+09	1.184E+09	5.327E+08	5.366E+08	3.050E+08	3.068E+08
10	3.847E+09	3.858E+09	1.896E+09	1.900E+09	8.506E+08	8.533E+08	4.829E+08	4.862E+08	2.186E+08	2.197E+08	1.251E+08	1.262E+08
15	7.647E+08	7.661E+08	3.769E+08	3.790E+08	1.691E+08	1.702E+08	9.600E+07	9.634E+07	4.345E+07	4.395E+07	2.548E+07	2.542E+07
20	2.441E+08	2.452E+08	1.203E+08	1.214E+08	5.398E+07	5.407E+07	3.065E+07	3.087E+07	1.387E+07	1.423E+07	7.942E+06	8.201E+06
30	4.947E+07	4.972E+07	2.438E+07	2.433E+07	1.094E+07	1.114E+07	6.210E+06	6.420E+06	2.811E+06	2.902E+06	1.609E+06	1.639E+06
45	1.035E+07	1.041E+07	5.101E+06	5.275E+06	2.288E+06	2.367E+06	1.299E+06	1.316E+06	5.891E+05	5.766E+05	3.367E+05	3.276E+05
60	3.552E+06	3.716E+06	1.750E+06	1.792E+06	7.853E+05	7.662E+05	4.458E+05	4.248E+05	2.018E+05	1.939E+05	1.155E+05	1.156E+05
75	1.616E+06	1.607E+06	7.965E+05	7.483E+05	3.574E+05	3.281E+05	2.029E+05	1.904E+05	9.183E+04	9.418E+04	5.258E+04	5.882E+04
90	8.879E+05	7.766E+05	4.376E+05	3.830E+05	1.963E+05	1.846E+05	1.115E+05	1.111E+05	5.045E+04	5.953E+04	2.888E+04	3.787E+04
120	3.946E+05	4.285E+05	1.945E+05	2.411E+05	8.725E+04	1.247E+05	4.954E+04	7.761E+04	2.242E+04	3.935E+04	1.284E+04	2.411E+04
150	2.550E+05	5.141E+05	1.257E+05	2.703E+05	5.638E+04	1.293E+05	3.201E+04	7.615E+04	1.449E+04	3.584E+04	8.295E+03	2.083E+04
179	2.220E+05	5.633E+05	1.094E+05	2.881E+05	4.909E+04	1.399E+05	2.787E+04	7.741E+04	1.261E+04	3.566E+04	7.222E+03	2.021E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	8.108E+11	8.124E+11	4.276E+11	4.284E+11	2.195E+11	2.201E+11	1.046E+11	1.050E+11	6.264E+10	6.288E+10	3.095E+10	3.110E+10
2	5.068E+10	5.084E+10	2.673E+10	2.683E+10	1.372E+10	1.378E+10	6.540E+09	6.582E+09	3.915E+09	3.946E+09	1.935E+09	1.953E+09
3	1.001E+10	1.006E+10	5.281E+09	5.306E+09	2.711E+09	2.759E+09	1.292E+09	1.305E+09	7.736E+08	7.827E+08	3.822E+08	3.878E+08
4	3.169E+09	3.185E+09	1.671E+09	1.682E+09	8.580E+08	8.669E+08	4.090E+08	4.145E+08	2.449E+08	2.487E+08	1.210E+08	1.233E+08
6	6.267E+08	6.306E+08	3.305E+08	3.339E+08	1.697E+08	1.753E+08	8.088E+07	8.251E+07	4.842E+07	4.951E+07	2.392E+07	2.454E+07
8	1.986E+08	2.004E+08	1.047E+08	1.064E+08	5.376E+07	5.462E+07	2.563E+07	2.627E+07	1.534E+07	1.576E+07	7.580E+06	7.811E+06
10	8.148E+07	8.263E+07	4.297E+07	4.391E+07	2.206E+07	2.263E+07	1.052E+07	1.081E+07	6.295E+06	6.441E+06	3.110E+06	3.216E+06
15	1.620E+07	1.665E+07	8.542E+06	8.799E+06	4.385E+06	4.597E+06	2.090E+06	2.147E+06	1.251E+06	1.290E+06	6.183E+05	6.445E+05
20	5.171E+06	5.336E+06	2.727E+06	2.796E+06	1.400E+06	1.438E+06	6.673E+05	6.837E+05	3.995E+05	4.138E+05	2.091E+05	2.163E+05
30	1.048E+06	1.056E+06	5.526E+05	5.527E+05	2.836E+05	2.867E+05	1.352E+05	1.415E+05	8.095E+04	8.769E+04	4.000E+04	4.566E+04
45	2.192E+05	2.152E+05	1.156E+05	1.179E+05	5.935E+04	6.466E+04	2.829E+04	2.627E+04	1.694E+04	2.162E+04	8.348E+03	1.163E+04
60	7.523E+04	7.898E+04	3.967E+04	4.564E+04	2.035E+04	2.610E+04	9.708E+03	1.404E+04	5.812E+03	9.083E+03	2.872E+03	4.326E+03
75	3.423E+04	4.128E+04	1.805E+04	2.446E+04	9.268E+03	1.414E+04	4.418E+03	7.597E+03	2.645E+03	4.801E+03	1.307E+03	2.627E+03
90	1.881E+04	2.671E+04	9.918E+03	1.576E+04	5.091E+03	8.985E+03	2.427E+03	4.728E+03	1.453E+03	2.994E+03	7.179E+02	1.572E+03
120	8.359E+03	1.641E+04	4.408E+03	9.122E+03	2.263E+03	4.863E+03	1.079E+03	2.347E+03	6.458E+02	1.397E+03	3.191E+02	6.719E+02
150	5.401E+03	1.359E+04	2.848E+03	7.073E+03	1.462E+03	3.443E+03	6.974E+02	1.522E+03	4.173E+02	8.332E+02	2.042E+02	3.489E+02
179	4.702E+03	1.299E+04	2.480E+03	6.588E+03	1.273E+03	3.142E+03	6.069E+02	1.311E+03	3.633E+02	6.865E+02	1.795E+02	2.638E+02

PA (91)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-00MEV		1.5E-00MEV		2.0E-00MEV	
1	1.899E+10	1.909E+10	1.308E+10	1.314E+10	7.470E+09	7.519E+09	4.133E+09	4.162E+09	2.091E+09	2.107E+09	1.277E+09	1.287E+09
2	1.137E+09	1.200E+09	8.165E+08	8.262E+08	4.670E+08	4.730E+08	2.584E+08	2.619E+08	1.307E+08	1.326E+08	7.985E+07	8.103E+07
3	2.345E+08	2.383E+08	1.613E+08	1.641E+08	9.226E+07	9.308E+07	5.105E+07	5.205E+07	2.583E+07	2.636E+07	1.578E+07	1.611E+07
4	7.422E+07	7.575E+07	5.106E+07	5.218E+07	2.920E+07	2.989E+07	1.616E+07	1.656E+07	8.176E+06	8.392E+06	4.994E+06	5.129E+06
6	1.468E+07	1.504E+07	1.010E+07	1.040E+07	5.774E+06	5.961E+06	3.195E+06	3.306E+06	1.617E+06	1.676E+06	9.874E+05	1.024E+06
8	4.650E+06	4.806E+06	3.199E+06	3.315E+06	1.830E+06	1.903E+06	1.012E+06	1.056E+06	5.122E+05	5.360E+05	3.129E+05	3.278E+05
10	1.908E+06	1.981E+06	1.313E+06	1.368E+06	7.508E+05	7.865E+05	4.154E+05	4.372E+05	2.102E+05	2.221E+05	1.284E+05	1.359E+05
15	3.793E+05	3.993E+05	2.610E+05	2.769E+05	1.492E+05	1.600E+05	8.257E+04	8.934E+04	4.179E+04	4.554E+04	2.552E+04	2.791E+04
20	1.211E+05	1.306E+05	8.331E+04	9.101E+04	4.764E+04	5.266E+04	2.536E+04	2.972E+04	1.334E+04	1.521E+04	8.148E+03	9.335E+03
30	2.454E+04	2.960E+04	1.688E+04	2.044E+04	9.644E+03	1.205E+04	5.341E+03	6.823E+03	2.703E+03	3.514E+03	1.651E+03	2.163E+03
45	5.134E+03	7.509E+03	3.532E+03	5.342E+03	2.020E+03	3.180E+03	1.118E+03	1.813E+03	5.655E+02	9.382E+02	3.454E+02	5.787E+02
60	1.762E+03	3.187E+03	1.212E+03	2.269E+03	6.931E+02	1.350E+03	3.835E+02	7.695E+02	1.941E+02	3.979E+02	1.185E+02	2.453E+02
75	8.017E+02	1.687E+03	5.516E+02	1.195E+03	3.154E+02	7.042E+02	1.745E+02	4.003E+02	8.831E+01	2.061E+02	5.394E+01	1.268E+02
90	4.404E+02	9.946E+02	3.030E+02	6.971E+02	1.733E+02	6.048E+02	9.587E+01	2.282E+02	4.852E+01	1.166E+02	2.963E+01	7.149E+01
120	1.957E+02	4.007E+02	1.347E+02	2.691E+02	7.701E+01	1.484E+02	4.261E+01	7.936E+01	2.156E+01	3.902E+01	1.317E+01	2.350E+01
150	1.265E+02	1.859E+02	8.702E+01	1.136E+02	4.976E+01	5.403E+01	2.753E+01	2.485E+01	1.393E+01	1.056E+01	8.510E+00	5.875E+00
179	1.101E+02	1.284E+02	7.576E+01	7.224E+01	4.333E+01	2.888E+01	2.397E+01	1.029E+01	1.213E+01	2.945E+00	7.409E+00	1.156E+00
DEG	3.0E-00MEV		4.0E-00MEV		5.0E-00MEV		7.0E-00MEV		1.0E-01MEV		1.5E-01MEV	
1	6.267E+08	6.316E+08	3.732E+08	3.762E+08	2.479E+08	2.499E+08	1.324E+08	1.335E+08	6.731E+07	6.785E+07	3.083E+07	3.108E+07
2	3.917E+07	3.976E+07	2.333E+07	2.368E+07	1.550E+07	1.573E+07	8.277E+06	8.403E+06	4.207E+06	4.271E+06	1.927E+06	1.956E+06
3	7.740E+06	7.906E+06	4.610E+06	4.709E+06	3.062E+06	3.127E+06	1.635E+06	1.671E+06	8.313E+05	8.495E+05	3.808E+05	3.891E+05
4	2.450E+06	2.517E+06	1.459E+06	1.499E+06	9.692E+05	9.942E+05	5.176E+05	5.321E+05	2.631E+05	2.705E+05	1.205E+05	1.239E+05
6	4.844E+05	5.030E+05	2.885E+05	2.966E+05	1.916E+05	1.991E+05	1.024E+05	1.063E+05	5.203E+04	5.406E+04	2.383E+04	2.476E+04
8	1.535E+05	1.610E+05	9.141E+04	9.592E+04	6.072E+04	6.374E+04	3.243E+04	3.405E+04	1.649E+04	1.731E+04	7.551E+03	7.929E+03
10	6.298E+04	6.677E+04	3.751E+04	3.979E+04	2.492E+04	2.644E+04	1.331E+04	1.413E+04	6.765E+03	7.182E+03	3.098E+03	3.290E+03
15	1.252E+04	1.373E+04	7.457E+03	8.187E+03	4.953E+03	5.442E+03	2.645E+03	2.908E+03	1.345E+03	1.479E+03	6.159E+02	6.774E+02
20	3.997E+03	4.599E+03	2.380E+03	2.744E+03	1.581E+03	1.855E+03	8.445E+02	9.753E+02	4.293E+02	4.960E+02	1.966E+02	2.272E+02
30	8.099E+02	1.069E+03	4.823E+02	6.382E+02	3.204E+02	4.245E+02	1.711E+02	2.270E+02	8.698E+01	1.155E+02	3.984E+01	5.292E+01
45	1.694E+02	2.863E+02	1.009E+02	1.711E+02	6.704E+01	1.139E+02	3.580E+01	6.091E+01	1.820E+01	3.099E+01	8.336E+00	1.242E+01
60	5.815E+01	1.213E+02	3.463E+01	7.250E+01	2.300E+01	4.854E+01	1.229E+01	2.580E+01	6.245E+00	1.313E+01	2.861E+00	6.016E+00
75	2.646E+01	6.262E+01	1.576E+01	3.739E+01	1.047E+01	2.487E+01	5.591E+00	1.330E+01	2.842E+00	6.765E+00	1.302E+00	3.160E+00
90	1.454E+01	3.518E+01	8.658E+00	2.098E+01	5.751E+00	1.395E+01	3.072E+00	7.453E+00	1.561E+00	3.700E+00	7.151E+00	1.736E+00
120	6.461E+00	1.138E+01	3.848E+00	6.744E+00	2.556E+00	4.468E+00	1.365E+00	2.380E+00	6.939E+00	1.208E+00	3.178E+00	5.528E+00
150	4.175E+00	2.635E+00	2.486E+00	1.508E+00	1.652E+00	9.815E+00	8.821E+00	5.139E+00	4.484E+00	2.583E+00	2.054E+00	1.175E+00
179	3.635E+00	2.913E+00	2.165E+00	1.057E+00	1.438E+00	4.737E+00	7.680E+00	1.387E+00	3.904E+00	3.731E+00	1.788E+00	8.514E+00
DEG	2.0E-01MEV		3.0E-01MEV		4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-02MEV	
1	1.761E+07	1.776E+07	7.955E+06	8.019E+06	4.511E+06	4.547E+06	2.901E+06	2.925E+06	1.489E+06	1.531E+06	7.326E+05	7.385E+05
2	1.101E+06	1.118E+06	4.972E+05	5.048E+05	2.820E+05	2.843E+05	1.814E+05	1.841E+05	9.306E+04	9.448E+04	4.580E+04	4.649E+04
3	2.175E+05	2.223E+05	9.825E+04	1.004E+05	5.572E+04	5.694E+04	3.583E+04	3.662E+04	1.839E+04	1.879E+04	9.049E+03	9.247E+03
4	6.886E+04	7.079E+04	3.110E+04	3.197E+04	1.744E+04	1.813E+04	1.134E+04	1.166E+04	5.820E+03	5.943E+03	2.864E+03	2.944E+03
6	1.362E+04	1.415E+04	6.149E+03	6.390E+03	3.487E+03	3.654E+03	2.243E+03	2.331E+03	1.151E+03	1.196E+03	5.663E+02	5.885E+02
8	4.314E+03	4.530E+03	1.948E+03	2.046E+03	1.105E+03	1.168E+03	7.106E+02	7.462E+02	3.646E+02	3.829E+02	1.794E+02	1.884E+02
10	1.770E+03	1.880E+03	7.995E+02	8.490E+02	4.534E+02	4.814E+02	2.916E+02	3.097E+02	1.496E+02	1.589E+02	7.363E+01	7.819E+01
15	3.519E+02	3.871E+02	1.589E+02	1.748E+02	9.013E+01	9.914E+01	5.797E+01	6.377E+01	2.974E+01	3.272E+01	1.464E+01	1.610E+01
20	1.123E+02	1.298E+02	5.074E+01	5.865E+01	2.877E+01	3.358E+01	1.651E+01	2.139E+01	9.495E+00	1.098E+01	4.673E+00	5.402E+00
30	2.276E+01	3.024E+01	1.028E+01	1.366E+01	5.830E+00	7.766E+00	3.750E+00	4.982E+00	1.924E+00	2.556E+00	9.448E+00	1.258E+00
45	4.763E+00	8.115E+00	2.151E+00	3.665E+00	1.220E+00	2.079E+00	7.845E+00	1.337E+00	4.026E+00	6.861E+00	1.981E+00	3.376E+00
60	1.634E+00	3.438E+00	7.381E+00	1.553E+00	4.186E+00	8.806E+00	2.692E+00	5.664E+00	1.381E+00	2.904E+00	6.798E+00	1.430E+00
75	7.438E+00	1.771E+00	3.359E+00	8.001E+00	1.905E+00	4.537E+00	1.225E+00	2.918E+00	6.286E+00	1.497E+00	3.094E+00	7.369E+00
90	4.086E+00	9.921E+00	1.845E+00	4.481E+00	1.066E+00	2.541E+00	6.730E+00	1.634E+00	3.453E+00	8.386E+00	1.699E+00	4.127E+00
120	1.816E+00	3.158E+00	8.201E+00	1.426E+00	4.651E+00	8.085E+00	2.991E+00	5.280E+00	1.535E+00	2.668E+00	7.553E+00	1.313E+00
150	1.173E+00	6.698E+00	5.299E+00	3.020E+00	3.005E+00	1.711E+00	1.933E+00	1.100E+00	9.918E+00	5.645E+00	4.881E+00	2.778E+00
179	1.022E+00	3.084E+00	4.614E+00	8.038E+00	2.616E+00	3.367E+00	1.683E+00	1.807E+00	8.635E+00	7.658E+00	4.249E+00	3.343E+00

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	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.895E+15	1.896E+15	8.430E+14	8.434E+14	4.746E+14	4.749E+14	2.114E+14	2.115E+14	1.191E+14	1.192E+14	7.638E+13	7.644E+13
2	1.184E+14	1.185E+14	5.269E+13	5.273E+13	2.967E+13	2.969E+13	1.321E+13	1.322E+13	7.446E+12	7.452E+12	4.775E+12	4.778E+12
3	2.340E+13	2.342E+13	1.041E+13	1.042E+13	5.862E+12	5.866E+12	2.610E+12	2.612E+12	1.471E+12	1.472E+12	9.434E+11	9.442E+11
4	7.407E+12	7.412E+12	3.295E+12	3.298E+12	1.855E+12	1.857E+12	8.263E+11	8.269E+11	4.657E+11	4.661E+11	2.986E+11	2.989E+11
6	1.465E+12	1.466E+12	6.516E+11	6.521E+11	3.669E+11	3.672E+11	1.634E+11	1.636E+11	9.208E+10	9.220E+10	5.904E+10	5.911E+10
8	4.641E+11	4.645E+11	2.065E+11	2.066E+11	1.162E+11	1.163E+11	5.177E+10	5.183E+10	2.918E+10	2.921E+10	1.871E+10	1.874E+10
10	1.904E+11	1.906E+11	8.472E+10	8.481E+10	4.770E+10	4.776E+10	2.124E+10	2.127E+10	1.197E+10	1.199E+10	7.677E+09	7.691E+09
15	3.786E+10	3.790E+10	1.684E+10	1.686E+10	9.483E+09	9.501E+09	4.223E+09	4.234E+09	2.380E+09	2.382E+09	1.526E+09	1.532E+09
20	1.209E+10	1.211E+10	5.377E+09	5.387E+09	3.027E+09	3.032E+09	1.348E+09	1.349E+09	7.598E+08	7.633E+08	4.872E+08	4.882E+08
30	2.449E+09	2.451E+09	1.089E+09	1.092E+09	6.134E+08	6.140E+08	2.732E+08	2.736E+08	1.539E+08	1.541E+08	9.872E+07	9.962E+07
45	5.124E+08	5.109E+08	2.279E+08	2.289E+08	1.283E+08	1.278E+08	5.715E+07	5.793E+07	3.221E+07	3.227E+07	2.065E+07	2.048E+07
60	1.758E+08	1.737E+08	7.822E+07	7.956E+07	4.404E+07	4.449E+07	1.961E+07	1.921E+07	1.105E+07	1.104E+07	7.087E+06	7.268E+06
75	8.001E+07	8.180E+07	3.560E+07	3.434E+07	2.004E+07	1.940E+07	8.925E+06	9.326E+06	5.030E+06	5.354E+06	3.225E+06	3.390E+06
90	4.395E+07	4.245E+07	1.955E+07	2.070E+07	1.101E+07	1.198E+07	4.903E+06	5.110E+06	2.763E+06	2.697E+06	1.772E+06	1.640E+06
120	1.954E+07	1.659E+07	8.691E+06	6.715E+06	4.893E+06	3.758E+06	2.179E+06	1.758E+06	1.228E+06	1.074E+06	7.875E+05	7.440E+05
150	1.262E+07	1.623E+07	5.616E+06	8.026E+06	3.162E+06	4.856E+06	1.408E+06	2.382E+06	7.936E+05	1.433E+06	5.089E+05	9.645E+05
179	1.099E+07	2.225E+07	4.889E+06	1.040E+07	2.753E+06	6.073E+06	1.226E+06	2.846E+06	6.909E+05	1.663E+06	4.430E+05	1.096E+06
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	3.912E+13	3.915E+13	1.928E+13	1.930E+13	8.650E+12	8.658E+12	4.911E+12	4.916E+12	2.223E+12	2.226E+12	1.273E+12	1.275E+12
2	2.445E+12	2.448E+12	1.205E+12	1.206E+12	5.407E+11	5.414E+11	3.070E+11	3.075E+11	1.389E+11	1.392E+11	7.955E+10	7.976E+10
3	4.832E+11	4.837E+11	2.381E+11	2.385E+11	1.068E+11	1.070E+11	6.066E+10	6.079E+10	2.745E+10	2.753E+10	1.572E+10	1.578E+10
4	1.529E+11	1.531E+11	7.537E+10	7.548E+10	3.381E+10	3.390E+10	1.920E+10	1.924E+10	8.690E+09	8.723E+09	4.975E+09	4.999E+09
6	3.024E+10	3.029E+10	1.490E+10	1.494E+10	6.686E+09	6.703E+09	3.796E+09	3.809E+09	1.718E+09	1.728E+09	9.638E+08	9.891E+08
8	9.582E+09	9.596E+09	4.722E+09	4.737E+09	2.119E+09	2.125E+09	1.203E+09	1.210E+09	5.444E+08	5.475E+08	3.117E+08	3.136E+08
10	3.932E+09	3.943E+09	1.938E+09	1.942E+09	8.594E+08	8.739E+08	4.936E+08	4.971E+08	2.234E+08	2.245E+08	1.279E+08	1.290E+08
15	7.816E+08	7.832E+08	3.852E+08	3.872E+08	1.728E+08	1.741E+08	9.812E+07	9.848E+07	4.441E+07	4.488E+07	2.543E+07	2.597E+07
20	2.495E+08	2.505E+08	1.230E+08	1.241E+08	5.517E+07	5.527E+07	3.132E+07	3.152E+07	1.418E+07	1.453E+07	8.117E+06	8.388E+06
30	5.056E+07	5.088E+07	2.492E+07	2.486E+07	1.118E+07	1.137E+07	6.347E+06	6.561E+06	2.873E+06	2.973E+06	1.645E+06	1.680E+06
45	1.058E+07	1.062E+07	5.213E+06	5.387E+06	2.339E+06	2.426E+06	1.328E+06	1.350E+06	6.011E+05	5.903E+05	3.441E+05	3.344E+05
60	3.630E+06	3.803E+06	1.789E+06	1.840E+06	8.026E+05	7.859E+05	4.557E+05	4.343E+05	2.063E+05	1.972E+05	1.181E+05	1.173E+05
75	1.652E+06	1.653E+06	8.141E+05	7.674E+05	3.653E+05	3.344E+05	2.074E+05	1.937E+05	9.386E+04	9.535E+04	5.374E+04	5.957E+04
90	9.075E+05	7.939E+05	4.472E+05	3.890E+05	2.007E+05	1.867E+05	1.139E+05	1.153E+05	5.156E+04	6.029E+04	2.352E+04	3.846E+04
120	4.033E+05	4.325E+05	1.988E+05	2.442E+05	8.918E+04	1.269E+05	5.063E+04	7.923E+04	2.292E+04	4.035E+04	1.312E+04	2.479E+04
150	2.606E+05	5.292E+05	1.284E+05	2.788E+05	5.762E+04	1.376E+05	3.272E+04	7.889E+04	1.481E+04	3.720E+04	8.478E+03	2.165E+04
179	2.269E+05	5.839E+05	1.118E+05	2.990E+05	5.017E+04	1.392E+05	2.848E+04	8.055E+04	1.289E+04	3.696E+04	7.382E+03	2.109E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	8.287E+11	8.301E+11	4.370E+11	4.380E+11	2.243E+11	2.249E+11	1.069E+11	1.073E+11	6.402E+10	6.427E+10	3.163E+10	3.179E+10
2	5.180E+10	5.196E+10	2.732E+10	2.742E+10	1.402E+10	1.409E+10	6.685E+09	6.726E+09	4.002E+09	4.033E+09	1.977E+09	1.997E+09
3	1.023E+10	1.028E+10	5.367E+09	5.424E+09	2.771E+09	2.789E+09	1.321E+09	1.333E+09	7.907E+08	8.000E+08	3.907E+08	3.963E+08
4	3.239E+09	3.256E+09	1.708E+09	1.719E+09	8.770E+08	8.849E+08	4.181E+08	4.236E+08	2.503E+08	2.543E+08	1.237E+08	1.268E+08
6	6.405E+08	6.445E+08	3.378E+08	3.412E+08	1.734E+08	1.741E+08	8.266E+07	8.435E+07	4.949E+07	5.062E+07	2.445E+07	2.509E+07
8	2.030E+08	2.047E+08	1.070E+08	1.087E+08	5.494E+07	5.614E+07	2.619E+07	2.687E+07	1.508E+07	1.511E+07	7.747E+06	7.986E+06
10	8.328E+07	8.442E+07	4.392E+07	4.488E+07	2.255E+07	2.315E+07	1.075E+07	1.106E+07	6.434E+06	6.629E+06	3.179E+06	3.288E+06
15	1.658E+07	1.702E+07	8.731E+06	9.003E+06	4.482E+06	4.612E+06	2.137E+06	2.197E+06	1.279E+06	1.319E+06	6.320E+05	6.582E+05
20	5.285E+06	5.463E+06	2.787E+06	2.863E+06	1.431E+06	1.461E+06	6.821E+05	6.984E+05	4.083E+05	4.222E+05	2.018E+05	2.131E+05
30	1.071E+06	1.082E+06	5.648E+05	5.649E+05	2.899E+05	2.923E+05	1.382E+05	1.440E+05	8.274E+04	8.911E+04	4.082E+04	4.637E+04
45	2.241E+05	2.191E+05	1.182E+05	1.197E+05	6.066E+04	6.555E+04	2.892E+04	3.426E+04	1.731E+04	2.194E+04	8.553E+03	1.183E+04
60	7.689E+04	8.003E+04	4.055E+04	4.624E+04	2.081E+04	2.648E+04	9.923E+03	1.629E+04	5.940E+03	9.266E+03	2.935E+03	5.041E+03
75	3.499E+04	4.185E+04	1.845E+04	2.486E+04	9.472E+03	1.442E+04	4.516E+03	7.782E+03	2.703E+03	5.023E+03	1.336E+03	2.707E+03
90	1.922E+04	2.719E+04	1.014E+04	1.611E+04	5.204E+03	9.221E+03	2.481E+03	4.873E+03	1.485E+03	3.094E+03	7.338E+02	1.630E+03
120	8.543E+03	1.692E+04	4.506E+03	9.432E+03	2.313E+03	5.033E+03	1.103E+03	2.443E+03	6.600E+02	1.457E+03	3.261E+02	7.027E+02
150	5.520E+03	1.415E+04	2.911E+03	7.376E+03	1.494E+03	3.640E+03	7.124E+02	1.594E+03	4.265E+02	8.737E+02	2.107E+02	3.665E+02
179	4.806E+03	1.357E+04	2.535E+03	6.891E+03	1.301E+03	3.292E+03	6.203E+02	1.375E+03	3.713E+02	7.211E+02	1.835E+02	2.774E+02

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DE0	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	1.900E+10	1.951E+10	1.335E+10	1.344E+10	7.635E+09	7.680E+09	4.224E+09	4.254E+09	2.130E+09	2.154E+09	1.300E+09	1.314E+09
2	1.213E+09	1.226E+09	8.346E+08	8.445E+08	4.773E+08	4.845E+08	2.641E+08	2.677E+08	1.336E+08	1.355E+08	8.162E+07	8.283E+07
3	2.397E+08	2.436E+08	1.649E+08	1.678E+08	9.430E+07	9.607E+07	5.217E+07	5.321E+07	2.640E+07	2.695E+07	1.613E+07	1.647E+07
4	7.586E+07	7.743E+07	5.219E+07	5.335E+07	2.985E+07	3.068E+07	1.651E+07	1.693E+07	8.357E+06	8.578E+06	5.104E+06	5.243E+06
6	1.500E+07	1.542E+07	1.032E+07	1.063E+07	5.902E+06	6.094E+06	3.265E+06	3.379E+06	1.652E+06	1.713E+06	1.006E+06	1.047E+06
8	4.753E+06	4.914E+06	3.270E+06	3.389E+06	1.870E+06	1.945E+06	1.035E+06	1.079E+06	5.236E+05	5.477E+05	3.190E+05	3.349E+05
10	1.950E+06	2.025E+06	1.342E+06	1.398E+06	7.674E+05	8.035E+05	4.246E+05	4.466E+05	2.140E+05	2.240E+05	1.312E+05	1.388E+05
15	3.877E+05	4.075E+05	2.667E+05	2.825E+05	1.525E+05	1.642E+05	8.440E+04	9.111E+04	4.271E+04	4.647E+04	2.609E+04	2.845E+04
20	1.238E+05	1.330E+05	8.516E+04	9.269E+04	4.870E+04	5.392E+04	2.694E+04	3.026E+04	1.363E+04	1.546E+04	8.320E+03	9.503E+03
30	2.508E+04	2.946E+04	1.725E+04	2.077E+04	9.867E+03	1.294E+04	5.459E+03	6.937E+03	2.763E+03	3.574E+03	1.687E+03	2.201E+03
45	5.247E+03	7.445E+03	3.610E+03	5.444E+03	2.065E+03	3.244E+03	1.142E+03	1.452E+03	5.780E+02	9.500E+02	3.531E+02	5.915E+02
60	1.801E+03	3.267E+03	1.239E+03	2.328E+03	7.044E+02	1.388E+03	3.920E+02	7.910E+02	1.943E+02	4.097E+02	1.211E+02	2.528E+02
75	8.194E+02	1.742E+03	5.638E+02	1.235E+03	3.244E+02	7.313E+02	1.784E+02	4.150E+02	9.027E+01	2.130E+02	5.513E+01	1.317E+02
90	4.501E+02	1.033E+03	3.097E+02	7.252E+02	1.771E+02	4.239E+02	9.794E+01	2.381E+02	4.959E+01	1.217E+02	3.029E+01	7.468E+01
120	2.001E+02	4.198E+02	1.376E+02	2.823E+02	7.872E+01	1.559E+02	4.355E+01	8.349E+01	2.204E+01	4.109E+01	1.346E+01	2.746E+01
150	1.293E+02	1.955E+02	8.894E+01	1.195E+02	5.088E+01	5.695E+01	2.814E+01	2.423E+01	1.424E+01	1.114E+01	8.688E+00	8.213E+00
179	1.125E+02	1.57E+02	7.744E+01	7.607E+01	4.428E+01	3.843E+01	2.450E+01	1.084E+01	1.240E+01	3.104E+00	7.573E+00	1.219E+00
DE0	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	6.405E+08	6.456E+08	3.815E+08	3.845E+08	2.534E+08	2.544E+08	1.353E+08	1.364E+08	6.876E+07	6.935E+07	3.151E+07	3.176E+07
2	4.004E+07	4.064E+07	2.385E+07	2.421E+07	1.584E+07	1.608E+07	8.466E+06	8.589E+06	4.300E+06	4.346E+06	1.979E+06	2.008E+06
3	7.911E+06	8.082E+06	4.711E+06	4.814E+06	3.130E+06	3.198E+06	1.672E+06	1.704E+06	8.497E+05	8.681E+05	3.802E+05	3.977E+05
4	2.504E+06	2.573E+06	1.491E+06	1.533E+06	9.036E+05	1.010E+06	5.201E+05	5.439E+05	2.680E+05	2.765E+05	1.232E+05	1.286E+05
6	4.951E+05	5.141E+05	2.949E+05	3.063E+05	1.959E+05	2.032E+05	1.046E+05	1.087E+05	5.310E+04	5.529E+04	2.436E+04	2.531E+04
8	1.569E+05	1.645E+05	9.343E+04	9.801E+04	6.207E+04	6.512E+04	3.315E+04	3.474E+04	1.849E+04	1.940E+04	7.710E+03	8.101E+03
10	6.437E+04	6.814E+04	3.836E+04	4.064E+04	2.547E+04	2.700E+04	1.366E+04	1.443E+04	6.914E+03	7.334E+03	3.167E+03	3.406E+03
15	1.280E+04	1.400E+04	7.621E+03	8.347E+03	5.633E+03	5.549E+03	2.704E+03	2.929E+03	1.374E+03	1.580E+03	6.245E+02	6.907E+02
20	4.088E+03	4.682E+03	2.433E+03	2.794E+03	1.616E+03	1.844E+03	8.632E+02	9.929E+02	4.388E+02	5.049E+02	2.016E+02	2.313E+02
30	8.274E+02	1.007E+03	4.430E+02	6.493E+02	3.275E+02	4.319E+02	1.740E+02	2.310E+02	8.491E+01	1.175E+02	4.072E+01	4.388E+01
45	1.733E+02	2.927E+02	1.032E+02	1.750E+02	6.852E+01	1.144E+02	3.660E+01	6.228E+01	1.860E+01	3.149E+01	8.520E+00	1.452E+01
60	5.943E+01	1.250E+02	3.540E+01	7.472E+01	2.351E+01	4.972E+01	1.258E+01	2.680E+01	6.303E+00	1.353E+01	2.924E+00	6.202E+00
75	2.705E+01	6.503E+01	1.411E+01	3.884E+01	1.070E+01	2.583E+01	5.715E+00	1.381E+01	2.905E+00	7.027E+00	1.331E+00	3.220E+00
90	1.486E+01	3.677E+01	8.849E+00	2.193E+01	5.878E+00	1.458E+01	3.139E+00	7.791E+00	1.594E+00	3.947E+00	7.309E+00	1.815E+00
120	6.603E+00	1.200E+01	3.933E+00	7.110E+00	2.613E+00	4.711E+00	1.395E+00	2.510E+00	7.082E+00	1.274E+00	3.249E+00	5.830E+00
150	4.267E+00	2.789E+00	2.541E+00	1.547E+00	1.688E+00	1.039E+00	9.014E+00	5.444E+00	4.583E+00	2.716E+00	2.040E+00	1.245E+00
179	3.715E+00	3.072E+00	2.213E+00	1.115E+00	1.470E+00	4.944E+00	7.850E+00	1.462E+00	3.940E+00	3.944E+00	1.828E+00	4.988E+00
DE0	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.800E+07	1.815E+07	8.130E+06	8.146E+06	4.611E+06	4.640E+06	2.968E+06	2.989E+06	1.522E+06	1.534E+06	7.488E+05	7.548E+05
2	1.125E+06	1.143E+06	5.082E+05	5.168E+05	2.882E+05	2.956E+05	1.854E+05	1.882E+05	9.512E+04	9.659E+04	4.681E+04	4.753E+04
3	2.224E+05	2.272E+05	1.604E+05	1.626E+05	9.445E+04	9.650E+04	5.663E+04	5.743E+04	1.879E+04	1.921E+04	9.249E+03	9.452E+03
4	7.038E+04	7.236E+04	3.178E+04	3.268E+04	1.802E+04	1.883E+04	1.159E+04	1.192E+04	5.949E+03	6.116E+03	2.927E+03	3.016E+03
6	1.392E+04	1.444E+04	6.285E+03	6.531E+03	3.564E+03	3.746E+03	2.242E+03	2.382E+03	1.176E+03	1.222E+03	5.788E+02	6.015E+02
8	4.409E+03	4.629E+03	1.991E+03	2.098E+03	1.129E+03	1.185E+03	7.261E+02	7.624E+02	3.727E+02	3.912E+02	1.836E+02	1.925E+02
10	1.809E+03	1.920E+03	8.171E+02	8.669E+02	4.634E+02	4.913E+02	2.988E+02	3.162E+02	1.529E+02	1.623E+02	7.526E+01	7.945E+01
15	3.597E+02	3.946E+02	1.624E+02	1.782E+02	9.212E+01	1.011E+02	5.925E+01	6.501E+01	3.040E+01	3.336E+01	1.494E+01	1.642E+01
20	1.148E+02	1.322E+02	5.166E+01	5.970E+01	2.941E+01	3.386E+01	1.891E+01	2.178E+01	9.755E+00	1.117E+01	4.774E+00	5.499E+00
30	2.327E+01	3.677E+01	1.853E+01	1.398E+01	5.549E+00	7.881E+00	3.833E+00	5.066E+00	1.947E+00	2.481E+00	9.677E+00	1.280E+00
45	4.868E+00	8.299E+00	2.190E+00	3.749E+00	1.247E+00	2.126E+00	8.019E+00	1.367E+00	4.115E+00	7.018E+00	2.025E+00	3.453E+00
60	1.679E+00	3.544E+00	7.944E+00	1.601E+00	4.278E+00	9.078E+00	2.752E+00	5.839E+00	1.412E+00	2.994E+00	6.944E+00	1.474E+00
75	7.482E+00	1.840E+00	3.433E+00	8.311E+00	1.947E+00	4.713E+00	1.253E+00	3.031E+00	6.425E+00	1.555E+00	3.162E+00	1.655E+00
90	4.176E+00	1.037E+00	1.826E+00	4.684E+00	1.070E+00	2.646E+00	6.874E+00	1.708E+00	3.539E+00	8.744E+00	1.737E+00	4.314E+00
120	1.836E+00	3.330E+00	8.302E+00	1.503E+00	4.754E+00	9.538E+00	3.057E+00	5.483E+00	1.569E+00	2.813E+00	7.720E+00	1.388E+00
150	1.199E+00	7.098E+00	5.418E+00	3.199E+00	3.072E+00	1.813E+00	1.976E+00	1.166E+00	1.014E+00	5.981E+00	4.944E+00	2.943E+00
179	1.044E+00	3.256E+00	4.716E+00	8.497E+00	2.674E+00	1.562E+00	1.720E+00	1.913E+00	8.024E+00	8.114E+00	4.343E+00	3.545E+00

	NUTM	NQTT	NUTM	NQTT	NUTM	NQTT	NUTM	NQTT	NUTM	NQTT	NUTM	NQTT
CEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.036E-15	1.937E-15	8.884E-16	8.884E-16	4.838E-16	4.843E-16	2.188E-16	2.188E-16	1.217E-16	1.217E-16	7.885E-17	7.885E-17
2	1.210E-16	1.211E-16	5.385E-17	5.385E-17	3.032E-17	3.034E-17	1.338E-17	1.338E-17	7.808E-18	7.808E-18	4.887E-18	4.887E-18
3	2.391E-13	2.393E-13	1.884E-13	1.884E-13	5.988E-12	5.993E-12	2.467E-12	2.470E-12	1.503E-12	1.505E-12	9.488E-13	9.488E-13
4	7.569E-12	7.574E-12	3.367E-12	3.378E-12	1.494E-12	1.497E-12	8.441E-13	8.450E-13	4.748E-13	4.748E-13	3.051E-13	3.051E-13
6	1.497E-12	1.498E-12	6.658E-11	6.663E-11	3.747E-11	3.747E-11	1.484E-11	1.484E-11	9.409E-10	9.409E-10	6.033E-10	6.033E-10
8	4.742E-11	4.744E-11	2.118E-11	2.118E-11	1.188E-11	1.188E-11	5.298E-10	5.298E-10	2.781E-10	2.781E-10	1.912E-10	1.912E-10
10	1.946E-11	1.947E-11	8.857E-10	8.867E-10	4.873E-10	4.881E-10	2.171E-10	2.174E-10	1.273E-10	1.274E-10	7.865E-09	7.865E-09
15	3.868E-10	3.873E-10	1.721E-10	1.723E-10	9.488E-09	9.497E-09	4.314E-09	4.326E-09	2.432E-09	2.434E-09	1.559E-09	1.559E-09
20	1.235E-10	1.237E-10	5.484E-09	5.586E-09	3.043E-09	3.047E-09	1.374E-09	1.374E-09	7.746E-09	7.749E-09	4.978E-09	4.981E-09
30	2.582E-09	2.586E-09	1.113E-09	1.117E-09	6.284E-09	6.278E-09	2.741E-09	2.749E-09	1.573E-09	1.573E-09	1.089E-09	1.076E-09
45	5.236E-09	5.218E-09	2.329E-09	2.322E-09	1.311E-09	1.305E-09	5.868E-07	5.921E-07	3.283E-07	3.388E-07	2.111E-07	2.093E-07
60	1.737E-08	1.746E-08	7.493E-07	8.119E-07	4.588E-07	4.549E-07	2.004E-07	1.962E-07	1.128E-07	1.128E-07	3.242E-06	3.458E-06
75	8.174E-07	8.381E-07	3.427E-07	3.512E-07	2.848E-07	2.849E-07	9.148E-06	9.582E-06	5.148E-06	4.981E-06	2.289E-06	3.482E-06
90	4.492E-07	4.388E-07	1.998E-07	2.107E-07	1.125E-07	1.237E-07	9.818E-06	9.245E-06	2.824E-06	2.748E-06	1.811E-06	1.887E-06
120	1.994E-07	1.788E-07	8.881E-06	8.849E-06	5.888E-06	7.777E-06	2.227E-06	1.778E-06	1.245E-06	1.088E-06	8.083E-05	7.484E-05
150	1.248E-07	1.458E-07	9.738E-06	8.179E-06	2.311E-06	4.139E-06	1.448E-06	2.448E-06	4.188E-05	1.448E-06	5.288E-05	9.028E-05
170	1.123E-07	2.244E-07	4.998E-06	1.674E-07	2.813E-06	6.291E-06	1.253E-06	2.442E-06	7.848E-05	1.728E-06	4.527E-05	1.134E-06
CEG	7.0E-03MEV		1.8E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	3.998E-13	4.001E-13	1.978E-13	1.972E-13	8.838E-12	8.847E-12	9.018E-12	9.024E-12	2.271E-12	2.274E-12	1.381E-12	1.381E-12
2	2.499E-12	2.501E-12	1.232E-12	1.233E-12	5.525E-11	5.527E-11	3.127E-11	3.127E-11	1.478E-11	1.478E-11	9.124E-10	9.124E-10
3	4.937E-11	4.943E-11	2.432E-11	2.437E-11	1.842E-11	1.843E-11	1.494E-10	1.494E-10	2.805E-10	2.813E-10	1.804E-10	1.804E-10
4	1.563E-11	1.565E-11	7.702E-10	7.713E-10	3.455E-10	3.444E-10	1.948E-10	1.948E-10	9.874E-09	9.913E-09	5.084E-09	5.084E-09
6	3.998E-10	3.998E-10	1.523E-10	1.524E-10	4.832E-09	4.838E-09	3.874E-09	3.872E-09	1.744E-09	1.744E-09	1.084E-09	1.084E-09
8	9.701E-09	9.888E-09	4.825E-09	4.841E-09	2.145E-09	2.171E-09	1.224E-09	1.236E-09	4.583E-09	4.587E-09	3.183E-09	3.284E-09
10	4.018E-09	4.029E-09	1.988E-09	1.985E-09	8.844E-09	8.838E-09	5.084E-09	5.081E-09	2.741E-09	2.744E-09	1.387E-09	1.387E-09
15	7.987E-08	8.006E-08	3.433E-09	3.455E-09	1.748E-09	1.748E-09	1.093E-09	1.097E-09	4.518E-09	4.527E-09	2.548E-09	2.548E-09
20	2.558E-08	2.558E-08	1.257E-09	1.249E-09	5.438E-09	5.447E-09	3.281E-09	3.281E-09	1.468E-09	1.468E-09	8.778E-09	8.778E-09
30	5.166E-07	5.208E-07	2.548E-07	2.548E-07	1.142E-07	1.142E-07	4.448E-06	4.448E-06	2.935E-06	2.935E-06	1.841E-06	1.841E-06
45	1.081E-07	1.083E-07	5.327E-06	5.508E-06	2.388E-06	2.488E-06	1.351E-06	1.351E-06	4.142E-06	4.142E-06	3.517E-06	3.517E-06
60	3.709E-06	3.891E-06	1.828E-06	1.888E-06	8.282E-05	8.282E-05	4.858E-05	4.843E-05	2.108E-05	2.108E-05	1.287E-05	1.287E-05
75	1.488E-06	1.788E-06	8.319E-05	7.873E-05	3.712E-05	3.887E-05	2.119E-05	1.987E-05	9.589E-06	9.443E-06	4.481E-06	4.481E-06
90	4.273E-05	8.128E-05	4.578E-05	3.952E-05	2.048E-05	1.887E-05	1.144E-05	1.104E-05	5.248E-06	4.187E-06	3.017E-06	3.017E-06
120	4.121E-05	4.388E-05	2.031E-05	2.472E-05	9.113E-06	1.288E-05	5.174E-06	4.081E-06	2.187E-06	4.175E-06	1.311E-06	2.588E-06
150	2.863E-05	5.443E-05	1.312E-05	2.874E-05	5.888E-06	1.181E-05	3.341E-06	8.145E-06	1.513E-06	1.849E-06	8.884E-07	2.258E-06
170	2.319E-05	6.058E-05	1.143E-05	3.182E-05	5.127E-06	1.448E-05	2.411E-06	8.378E-06	1.317E-06	1.845E-06	7.463E-07	2.288E-06
CEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	8.488E-11	8.492E-11	4.488E-11	4.474E-11	2.282E-11	2.288E-11	1.083E-11	1.088E-11	4.542E-10	4.544E-10	3.272E-10	3.288E-10
2	5.293E-10	5.297E-10	2.741E-10	2.802E-10	1.433E-10	1.439E-10	6.881E-10	6.873E-10	4.088E-09	4.178E-09	2.821E-09	2.888E-09
3	1.048E-10	1.058E-10	5.515E-09	5.562E-09	2.811E-09	2.844E-09	1.358E-09	1.363E-09	8.088E-09	8.174E-09	3.942E-09	4.058E-09
4	3.310E-09	3.327E-09	1.748E-09	1.736E-09	8.912E-09	8.841E-09	4.272E-09	4.328E-09	2.587E-09	2.649E-09	1.284E-09	1.284E-09
6	6.545E-08	6.585E-08	3.452E-09	3.485E-09	4.443E-09	4.443E-09	8.443E-09	8.421E-09	5.047E-09	4.174E-09	2.583E-09	2.583E-09
8	2.074E-08	2.092E-08	1.094E-09	1.118E-09	5.814E-09	5.737E-09	2.677E-09	2.707E-09	1.402E-09	1.408E-09	7.813E-09	8.164E-09
10	8.511E-07	8.621E-07	4.488E-07	4.585E-07	2.384E-07	2.384E-07	1.094E-07	1.111E-07	4.575E-07	4.588E-07	3.381E-07	3.381E-07
15	1.692E-07	1.739E-07	8.922E-06	9.218E-06	4.588E-06	4.719E-06	2.181E-06	2.244E-06	1.387E-06	1.387E-06	8.488E-06	8.728E-06
20	5.401E-06	5.598E-06	2.888E-06	2.931E-06	1.482E-06	1.482E-06	8.978E-05	7.134E-05	4.173E-05	4.188E-05	2.082E-05	2.172E-05
30	1.094E-06	1.108E-06	5.771E-05	5.775E-05	2.482E-05	2.482E-05	1.412E-05	1.408E-05	4.445E-06	4.445E-06	4.178E-06	4.178E-06
45	2.298E-05	2.232E-05	1.288E-05	1.235E-05	6.198E-06	6.198E-06	2.894E-06	3.477E-06	1.748E-06	2.275E-06	8.788E-06	1.288E-06
60	7.857E-06	8.104E-06	4.144E-06	4.882E-06	2.127E-06	2.888E-06	1.089E-06	1.444E-06	4.078E-06	9.644E-06	2.089E-06	3.161E-06
75	3.574E-06	4.234E-06	1.888E-06	2.525E-06	9.488E-07	1.278E-06	4.844E-07	7.485E-07	2.747E-07	4.154E-07	1.164E-07	2.748E-07
90	1.964E-06	2.744E-06	1.036E-06	1.465E-06	5.173E-07	6.447E-07	2.514E-07	4.028E-07	1.518E-07	1.518E-07	7.484E-07	1.484E-07
120	8.738E-03	1.742E-04	4.804E-03	9.748E-03	2.383E-03	4.219E-03	1.127E-03	2.581E-03	4.788E-07	1.419E-03	3.127E-07	7.888E-07
150	5.641E-03	1.472E-04	2.975E-03	7.888E-03	1.527E-03	1.888E-03	7.288E-07	1.884E-03	4.188E-07	9.188E-07	2.147E-07	1.888E-07
170	4.911E-03	1.417E-04	2.548E-03	7.287E-03	1.138E-03	1.448E-03	8.334E-07	1.448E-03	3.448E-07	7.477E-07	1.888E-07	2.888E-07

	RUIM	NOTT	RUIM	NOTT	RUIM	NOTT	RUIM	NOTT	RUIM	NOTT	RUIM	NOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-00MEV		1.5E-00MEV		2.0E-00MEV	
1	1.983E+10	1.994E+10	1.364E+10	1.372E+10	7.802E+09	7.844E+09	4.317E+09	4.347E+09	2.184E+09	2.201E+09	1.334E+09	1.345E+09
2	1.237E+09	1.251E+09	8.524E+08	8.610E+08	4.877E+08	4.941E+08	2.678E+08	2.730E+08	1.383E+08	1.395E+08	8.340E+07	8.402E+07
3	2.449E+08	2.489E+08	1.685E+08	1.714E+08	9.331E+07	9.418E+07	5.331E+07	5.438E+07	2.898E+07	2.956E+07	1.648E+07	1.683E+07
4	7.752E+07	7.914E+07	5.333E+07	5.452E+07	3.050E+07	3.123E+07	1.687E+07	1.731E+07	8.534E+06	8.747E+06	5.216E+06	5.358E+06
6	1.533E+07	1.577E+07	1.055E+07	1.087E+07	6.031E+06	6.230E+06	3.337E+06	3.453E+06	1.688E+06	1.754E+06	1.031E+06	1.070E+06
8	4.857E+06	5.021E+06	3.362E+06	3.443E+06	1.911E+06	1.947E+06	1.057E+06	1.101E+06	5.750E+05	5.950E+05	3.268E+05	3.422E+05
10	1.493E+06	2.004E+06	1.371E+06	1.428E+06	7.861E+05	8.288E+05	4.334E+05	4.581E+05	2.145E+05	2.314E+05	1.341E+05	1.417E+05
15	3.962E+05	4.154E+05	2.724E+05	2.882E+05	1.557E+05	1.683E+05	8.024E+04	8.284E+04	4.364E+04	4.737E+04	2.688E+04	2.901E+04
20	1.263E+05	1.354E+05	8.702E+04	9.437E+04	4.976E+04	5.449E+04	2.751E+04	3.079E+04	1.343E+04	1.535E+04	8.510E+03	9.671E+03
30	2.563E+04	2.991E+04	1.763E+04	2.109E+04	1.058E+04	1.244E+04	5.574E+03	7.049E+03	2.723E+03	3.472E+03	1.724E+03	2.237E+03
45	5.362E+03	7.777E+03	3.087E+03	5.543E+03	2.110E+03	3.307E+03	1.167E+03	1.889E+03	5.907E+02	9.788E+02	3.608E+02	6.041E+02
60	1.840E+03	3.347E+03	1.266E+03	2.388E+03	7.217E+02	1.455E+03	4.004E+02	8.142E+02	2.027E+02	4.217E+02	1.238E+02	2.602E+02
75	8.737E+02	1.749E+03	5.761E+02	1.274E+03	3.244E+02	7.549E+02	1.823E+02	4.301E+02	9.224E+01	2.214E+02	5.634E+01	1.368E+02
90	4.604E+02	1.073E+03	3.165E+02	7.542E+02	1.410E+02	4.415E+02	1.001E+02	2.683E+02	5.067E+01	1.771E+02	3.045E+01	7.748E+01
120	2.044E+02	4.398E+02	1.407E+02	2.941E+02	8.044E+01	1.838E+02	4.458E+01	8.782E+01	2.252E+01	4.327E+01	1.376E+01	2.609E+01
150	1.321E+02	2.056E+02	9.089E+01	1.258E+02	4.198E+01	6.004E+01	2.876E+01	2.749E+01	1.454E+01	1.174E+01	8.888E+00	4.571E+00
179	1.150E+02	1.424E+02	7.913E+01	8.009E+01	4.525E+01	3.245E+01	2.504E+01	1.143E+01	1.247E+01	3.272E+00	7.739E+00	1.245E+00
DEG	3.0E-00MEV		4.0E-00MEV		5.0E-00MEV		7.0E-00MEV		1.0E-01MEV		1.5E-01MEV	
1	4.545E+08	6.497E+08	3.898E+08	3.924E+08	2.590E+08	2.610E+08	1.381E+08	1.394E+08	7.030E+07	7.088E+07	3.220E+07	3.246E+07
2	4.091E+07	4.153E+07	2.637E+07	2.674E+07	1.619E+07	1.643E+07	8.645E+06	8.777E+06	4.394E+06	4.442E+06	2.013E+06	2.044E+06
3	8.084E+06	8.254E+06	4.814E+06	4.920E+06	3.198E+06	3.248E+06	1.704E+06	1.746E+06	8.682E+05	8.874E+05	3.977E+05	4.065E+05
4	2.559E+06	2.630E+06	1.524E+06	1.567E+06	1.012E+06	1.041E+06	5.408E+05	5.559E+05	2.748E+05	2.824E+05	1.224E+05	1.244E+05
6	5.059E+05	5.253E+05	3.013E+05	3.130E+05	2.002E+05	2.077E+05	1.089E+05	1.111E+05	5.436E+04	5.644E+04	2.889E+04	2.986E+04
8	1.603E+05	1.680E+05	9.347E+04	1.081E+05	6.363E+04	6.857E+04	3.870E+04	3.554E+04	1.722E+04	1.807E+04	7.880E+03	8.275E+03
10	6.478E+04	6.942E+04	3.918E+04	4.149E+04	2.453E+04	2.747E+04	1.390E+04	1.473E+04	7.065E+03	7.484E+03	3.236E+03	3.430E+03
15	1.308E+04	1.427E+04	7.788E+03	8.502E+03	5.174E+03	5.805E+03	2.763E+03	3.022E+03	1.404E+03	1.537E+03	6.433E+02	7.040E+02
20	4.174E+03	4.765E+03	2.486E+03	2.843E+03	1.452E+03	1.640E+03	8.821E+02	1.010E+03	4.484E+02	5.138E+02	2.054E+02	2.354E+02
30	8.459E+02	1.105E+03	5.038E+02	6.601E+02	3.367E+02	4.301E+02	1.787E+02	2.349E+02	9.084E+01	1.145E+02	4.111E+01	5.474E+01
45	1.770E+02	2.998E+02	1.054E+02	1.787E+02	7.062E+01	1.190E+02	3.740E+01	6.384E+01	1.401E+01	2.234E+01	8.707E+00	1.444E+01
60	5.073E+01	1.288E+02	3.617E+01	7.697E+01	2.503E+01	5.122E+01	1.283E+01	2.740E+01	6.523E+00	1.394E+01	2.988E+00	6.389E+00
75	2.764E+01	6.750E+01	1.846E+01	4.831E+01	1.043E+01	2.682E+01	5.248E+00	1.434E+01	2.964E+00	7.294E+00	1.360E+00	3.343E+00
90	1.518E+01	3.841E+01	9.042E+00	2.291E+01	5.007E+00	1.533E+01	3.204E+00	8.141E+00	1.631E+00	4.146E+00	7.469E+00	1.897E+00
120	7.748E+00	1.265E+01	4.019E+00	7.494E+00	2.670E+00	4.946E+00	1.428E+00	2.646E+00	7.248E+00	1.347E+00	3.320E+00	6.147E+00
150	4.360E+00	2.952E+00	2.597E+00	1.691E+00	1.723E+00	1.101E+00	9.213E+00	5.764E+00	4.683E+00	2.894E+00	2.145E+00	1.319E+00
179	3.798E+00	3.234E+00	2.261E+00	1.175E+00	1.402E+00	6.249E+00	8.021E+00	1.563E+00	4.077E+00	4.162E+00	1.868E+00	9.685E+00
DEG	2.0E-01MEV		3.0E-01MEV		4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-02MEV	
1	1.840E+07	1.854E+07	8.308E+06	8.375E+06	4.712E+06	4.740E+06	3.030E+06	3.053E+06	1.554E+06	1.567E+06	7.652E+05	7.714E+05
2	1.150E+06	1.164E+06	5.193E+05	5.273E+05	2.945E+05	2.980E+05	1.894E+05	1.923E+05	9.728E+04	9.844E+04	4.783E+04	4.857E+04
3	2.272E+05	2.322E+05	1.026E+05	1.049E+05	5.819E+04	5.948E+04	3.743E+04	3.825E+04	1.920E+04	1.943E+04	9.451E+03	9.680E+03
4	7.192E+04	7.395E+04	3.248E+04	3.340E+04	1.862E+04	1.899E+04	1.185E+04	1.218E+04	6.079E+03	6.251E+03	2.991E+03	3.076E+03
6	1.422E+04	1.478E+04	6.822E+03	6.973E+03	3.622E+03	3.785E+03	2.302E+03	2.430E+03	1.202E+03	1.249E+03	5.915E+02	6.146E+02
8	4.508E+03	4.726E+03	2.035E+03	2.135E+03	1.154E+03	1.211E+03	7.422E+02	7.786E+02	3.808E+02	3.984E+02	1.874E+02	1.976E+02
10	1.849E+03	1.960E+03	8.350E+02	8.651E+02	4.735E+02	5.020E+02	3.046E+02	3.229E+02	1.563E+02	1.657E+02	7.690E+01	8.152E+01
15	3.676E+02	4.023E+02	1.660E+02	1.817E+02	9.413E+01	1.070E+02	6.054E+01	6.927E+01	3.107E+01	3.400E+01	1.529E+01	1.673E+01
20	1.173E+02	1.345E+02	5.299E+01	6.076E+01	3.052E+01	3.449E+01	1.933E+01	2.216E+01	9.917E+00	1.137E+01	4.858E+00	5.596E+00
30	2.378E+01	3.124E+01	1.074E+01	1.413E+01	6.084E+00	8.013E+00	3.916E+00	5.154E+00	2.010E+00	2.645E+00	9.889E+00	1.301E+00
45	4.975E+00	8.491E+00	2.247E+00	3.430E+00	1.274E+00	2.172E+00	8.142E+00	1.397E+00	4.205E+00	7.178E+00	2.669E+00	3.529E+00
60	1.707E+00	3.651E+00	7.709E+00	1.449E+00	4.372E+00	9.352E+00	2.812E+00	6.815E+00	1.447E+00	3.087E+00	7.100E+00	1.519E+00
75	7.760E+00	1.910E+00	3.508E+00	8.624E+00	1.900E+00	4.844E+00	1.280E+00	3.148E+00	6.566E+00	1.415E+00	3.231E+00	7.948E+00
90	4.267E+00	1.084E+00	1.927E+00	4.895E+00	1.003E+00	2.778E+00	7.029E+00	1.785E+00	3.607E+00	9.161E+00	1.775E+00	4.588E+00
120	1.897E+00	3.511E+00	8.565E+00	1.585E+00	4.848E+00	9.949E+00	3.124E+00	5.782E+00	1.603E+00	2.944E+00	7.889E+00	1.460E+00
150	1.224E+00	7.518E+00	5.535E+00	3.749E+00	3.139E+00	1.951E+00	2.019E+00	2.735E+00	1.074E+00	6.334E+00	5.094E+00	3.118E+00
179	1.067E+00	3.439E+00	4.819E+00	8.982E+00	2.733E+00	3.749E+00	1.758E+00	2.025E+00	9.014E+00	8.507E+00	4.438E+00	3.758E+00

PII (94)

(BARNES/STERRADIAN)

	RUTH	MGTT	RUTH	MGTT	RUTH	MGTT	RUTH	MGTT	RUTH	MGTT	RUTH	MGTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	1.978E+15	1.979E+15	8.800E+14	8.805E+14	4.955E+14	4.958E+14	2.206E+14	2.208E+14	1.244E+14	1.244E+14	7.974E+13	7.979E+13
2	1.237E+14	1.237E+14	5.501E+13	5.504E+13	3.097E+13	3.099E+13	1.370E+13	1.380E+13	7.773E+12	7.779E+12	4.985E+12	4.989E+12
3	2.443E+13	2.445E+13	1.087E+13	1.088E+13	6.120E+12	6.124E+12	2.725E+12	2.727E+12	1.536E+12	1.537E+12	9.849E+11	9.858E+11
4	7.733E+12	7.738E+12	3.440E+12	3.443E+12	1.937E+12	1.948E+12	8.626E+11	8.633E+11	4.961E+11	4.964E+11	3.117E+11	3.121E+11
6	1.529E+12	1.530E+12	6.802E+11	6.807E+11	3.830E+11	3.833E+11	1.706E+11	1.708E+11	9.612E+10	9.625E+10	6.164E+10	6.171E+10
8	4.845E+11	4.848E+11	2.155E+11	2.157E+11	1.214E+11	1.215E+11	5.404E+10	5.410E+10	3.046E+10	3.050E+10	1.953E+10	1.957E+10
10	1.988E+11	1.989E+11	8.845E+10	8.855E+10	4.980E+10	4.987E+10	2.218E+10	2.221E+10	1.250E+10	1.252E+10	8.014E+09	8.032E+09
15	3.952E+10	3.957E+10	1.758E+10	1.761E+10	9.980E+09	9.919E+09	4.408E+09	4.419E+09	2.485E+09	2.487E+09	1.593E+09	1.598E+09
20	1.262E+10	1.263E+10	5.613E+09	5.625E+09	3.160E+09	3.161E+09	1.407E+09	1.408E+09	7.931E+08	7.947E+08	5.086E+08	5.102E+08
30	2.556E+09	2.561E+09	1.137E+09	1.141E+09	6.404E+08	6.403E+08	2.852E+08	2.861E+08	1.607E+08	1.606E+08	1.031E+08	1.039E+08
45	5.349E+08	5.330E+08	2.380E+08	2.395E+08	1.342E+08	1.333E+08	5.966E+07	6.049E+07	3.363E+07	3.382E+07	2.156E+07	2.140E+07
60	1.835E+08	1.816E+08	8.165E+07	8.280E+07	4.598E+07	4.671E+07	2.047E+07	2.005E+07	1.154E+07	1.144E+07	7.399E+06	7.543E+06
75	8.353E+07	8.602E+07	3.716E+07	3.594E+07	2.092E+07	2.028E+07	9.317E+06	9.274E+06	5.251E+06	5.608E+06	3.367E+06	3.574E+06
90	4.589E+07	4.373E+07	2.041E+07	2.142E+07	1.149E+07	1.255E+07	5.114E+06	5.422E+06	2.885E+06	2.866E+06	1.850E+06	1.737E+06
120	2.039E+07	1.760E+07	9.073E+06	6.992E+06	5.108E+06	3.858E+06	2.275E+06	1.781E+06	1.242E+06	1.085E+06	8.221E+05	7.521E+05
150	1.318E+07	1.676E+07	5.863E+06	8.330E+06	3.301E+06	5.049E+06	1.470E+06	2.494E+06	8.284E+05	1.506E+06	5.312E+05	1.016E+06
179	1.147E+07	2.365E+07	5.104E+06	1.108E+07	2.874E+06	6.473E+06	1.280E+06	3.039E+06	7.213E+05	1.778E+06	4.625E+05	1.173E+06
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	4.084E+13	4.087E+13	2.013E+13	2.014E+13	9.030E+12	9.038E+12	5.127E+12	5.132E+12	2.321E+12	2.324E+12	1.329E+12	1.331E+12
2	2.553E+12	2.555E+12	1.258E+12	1.259E+12	5.645E+11	5.652E+11	3.205E+11	3.210E+11	1.451E+11	1.453E+11	8.305E+10	8.325E+10
3	5.044E+11	5.050E+11	2.486E+11	2.489E+11	1.115E+11	1.117E+11	6.332E+10	6.346E+10	2.866E+10	2.873E+10	1.641E+10	1.647E+10
4	1.597E+11	1.598E+11	7.868E+10	7.880E+10	3.530E+10	3.548E+10	2.004E+10	2.009E+10	4.071E+09	4.059E+09	5.194E+09	5.220E+09
6	3.157E+10	3.163E+10	1.556E+10	1.559E+10	6.980E+09	6.989E+09	3.963E+09	3.976E+09	1.794E+09	1.804E+09	1.027E+09	1.033E+09
8	1.000E+10	1.002E+10	4.930E+09	4.946E+09	2.212E+09	2.218E+09	1.256E+09	1.263E+09	5.684E+08	5.719E+08	3.254E+08	3.273E+08
10	4.105E+09	4.115E+09	2.023E+09	2.029E+09	9.076E+08	9.118E+08	5.153E+08	5.192E+08	2.332E+08	2.345E+08	1.335E+08	1.345E+08
15	8.160E+08	8.182E+08	4.021E+08	4.038E+08	1.804E+08	1.820E+08	1.024E+08	1.029E+08	4.636E+07	4.677E+07	2.654E+07	2.708E+07
20	2.635E+08	2.611E+08	1.284E+08	1.297E+08	5.759E+07	5.774E+07	3.274E+07	3.284E+07	1.480E+07	1.515E+07	8.474E+06	8.766E+06
30	5.278E+07	5.325E+07	2.601E+07	2.594E+07	1.167E+07	1.183E+07	6.626E+06	6.844E+06	2.999E+06	3.117E+06	1.717E+06	1.764E+06
45	1.104E+07	1.103E+07	5.442E+06	5.612E+06	2.442E+06	2.516E+06	1.386E+06	1.420E+06	6.275E+05	6.191E+05	3.593E+05	3.487E+05
60	3.790E+06	3.978E+06	1.868E+06	1.938E+06	8.379E+05	8.272E+05	4.757E+05	4.546E+05	2.153E+05	2.042E+05	1.233E+05	1.206E+05
75	1.725E+06	1.748E+06	8.499E+05	8.079E+05	3.813E+05	3.477E+05	2.165E+05	1.997E+05	9.799E+04	9.761E+04	5.610E+04	6.096E+04
90	9.474E+05	8.310E+05	4.669E+05	4.016E+05	2.095E+05	1.907E+05	1.189E+05	1.176E+05	5.383E+04	6.171E+04	3.082E+04	3.958E+04
120	4.211E+05	4.392E+05	2.075E+05	2.499E+05	9.310E+04	1.311E+05	5.286E+04	8.238E+04	2.392E+04	4.234E+04	1.370E+04	2.618E+04
150	2.721E+05	5.596E+05	1.341E+05	2.961E+05	6.016E+04	1.456E+05	3.415E+04	8.447E+04	1.546E+04	4.002E+04	8.851E+03	2.337E+04
179	2.369E+05	6.266E+05	1.167E+05	3.217E+05	5.238E+04	1.501E+05	2.974E+04	8.711E+04	1.346E+04	4.010E+04	7.766E+03	2.295E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	8.651E+11	8.666E+11	4.562E+11	4.573E+11	2.342E+11	2.348E+11	1.116E+11	1.120E+11	6.684E+10	6.710E+10	3.302E+10	3.318E+10
2	5.408E+10	5.424E+10	2.852E+10	2.863E+10	1.464E+10	1.470E+10	6.979E+09	7.022E+09	4.178E+09	4.210E+09	2.064E+09	2.084E+09
3	1.068E+10	1.073E+10	5.635E+09	5.663E+09	2.892E+09	2.911E+09	1.379E+09	1.392E+09	8.255E+08	8.351E+08	4.078E+08	4.138E+08
4	3.382E+09	3.399E+09	1.783E+09	1.794E+09	9.155E+08	9.235E+08	4.364E+08	4.422E+08	2.613E+08	2.655E+08	1.291E+08	1.316E+08
6	6.687E+08	6.727E+08	3.527E+08	3.560E+08	1.810E+08	1.818E+08	9.630E+07	9.808E+07	5.166E+07	5.288E+07	2.553E+07	2.621E+07
8	2.119E+08	2.136E+08	1.117E+08	1.134E+08	5.736E+07	5.862E+07	2.734E+07	2.808E+07	1.637E+07	1.684E+07	8.088E+06	8.345E+06
10	8.695E+07	8.803E+07	4.585E+07	4.684E+07	2.354E+07	2.419E+07	1.122E+07	1.156E+07	6.717E+06	6.930E+06	3.310E+06	3.435E+06
15	1.720E+07	1.777E+07	9.115E+06	9.418E+06	4.679E+06	4.858E+06	2.231E+06	2.297E+06	1.335E+06	1.378E+06	6.598E+05	6.861E+05
20	5.518E+06	5.719E+06	2.910E+06	3.001E+06	1.494E+06	1.559E+06	7.121E+05	7.288E+05	4.263E+05	4.395E+05	2.106E+05	2.213E+05
30	1.118E+06	1.135E+06	5.896E+05	5.904E+05	3.027E+05	3.038E+05	1.443E+05	1.489E+05	8.638E+04	9.194E+04	4.268E+04	4.778E+04
45	2.339E+05	2.273E+05	1.234E+05	1.234E+05	6.332E+04	6.710E+04	3.019E+04	3.517E+04	1.807E+04	2.255E+04	8.929E+03	1.220E+04
60	8.027E+04	8.207E+04	4.233E+04	4.738E+04	2.173E+04	2.715E+04	1.036E+04	1.476E+04	6.201E+03	9.618E+03	3.064E+03	5.264E+03
75	3.653E+04	4.291E+04	1.926E+04	2.563E+04	9.889E+03	1.447E+04	4.714E+03	8.146E+03	2.822E+03	5.288E+03	1.394E+03	2.869E+03
90	2.007E+04	2.612E+04	1.058E+04	1.679E+04	5.432E+03	9.692E+03	2.590E+03	4.168E+03	1.550E+03	3.300E+03	7.640E+02	1.750E+03
120	8.919E+03	1.794E+04	4.704E+03	1.007E+04	2.414E+03	5.848E+03	1.151E+03	2.643E+03	6.891E+02	1.584E+03	3.404E+02	7.682E+02
150	5.763E+03	1.531E+04	3.039E+03	8.014E+03	1.560E+03	3.970E+03	7.437E+02	1.746E+03	4.452E+02	9.599E+02	2.200E+02	4.042E+02
179	5.018E+03	1.479E+04	2.646E+03	7.534E+03	1.358E+03	3.610E+03	6.475E+02	1.513E+03	3.877E+02	7.952E+02	1.915E+02	3.068E+02

PU (94)

(BAWNS/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-00MEV		1.5E-00MEV		2.0E-00MEV	
1	2.026E+10	2.037E+10	1.394E+10	1.402E+10	7.971E-09	8.023E-09	4.410E-09	4.441E-09	2.272E-09	2.244E-09	1.363E-09	1.374E-09
2	1.266E+09	1.280E+09	8.713E+08	8.817E+08	4.982E+08	5.048E+08	2.757E+08	2.795E+08	1.395E+08	1.415E+08	8.529E+07	8.645E+07
3	2.502E+08	2.543E+08	1.721E+08	1.752E+08	9.844E+07	1.003E+08	5.447E+07	5.557E+07	2.766E+07	2.814E+07	1.683E+07	1.720E+07
4	7.919E+07	8.087E+07	5.449E+07	5.571E+07	3.116E+07	3.192E+07	1.724E+07	1.768E+07	8.724E+06	8.958E+06	5.329E+06	5.474E+06
6	1.566E+07	1.611E+07	1.077E+07	1.110E+07	6.161E+06	6.365E+06	3.409E+06	3.528E+06	1.725E+06	1.789E+06	1.054E+06	1.093E+06
8	4.962E+06	5.133E+06	3.414E+06	3.539E+06	1.912E+06	2.030E+06	1.080E+06	1.127E+06	5.466E+05	5.715E+05	3.338E+05	3.495E+05
10	2.036E+06	2.115E+06	1.401E+06	1.459E+06	8.011E+05	8.383E+05	4.432E+05	4.657E+05	2.243E+05	2.365E+05	1.370E+05	1.447E+05
15	4.047E+05	4.243E+05	2.785E+05	2.939E+05	1.592E+05	1.697E+05	8.811E+04	9.469E+04	4.459E+04	4.824E+04	2.723E+04	2.956E+04
20	1.292E+05	1.379E+05	8.890E+04	9.606E+04	5.084E+04	5.585E+04	2.813E+04	3.133E+04	1.423E+04	1.603E+04	8.694E+03	9.838E+03
30	2.618E+04	3.036E+04	1.801E+04	2.140E+04	1.030E+04	1.262E+04	5.699E+03	7.158E+03	2.884E+03	3.689E+03	1.742E+03	2.272E+03
45	5.478E+03	7.904E+03	3.769E+03	5.639E+03	2.155E+03	3.368E+03	1.192E+03	1.926E+03	6.034E+02	9.985E+02	3.686E+02	4.165E+02
60	1.880E+03	3.425E+03	1.293E+03	2.447E+03	7.396E+02	1.443E+03	4.092E+02	8.367E+02	2.071E+02	6.337E+02	1.265E+02	2.677E+02
75	8.554E+02	1.854E+03	5.886E+02	1.318E+03	3.366E+02	7.840E+02	1.862E+02	4.454E+02	9.423E+01	2.299E+02	5.756E+01	1.417E+02
90	4.699E+02	1.114E+03	3.233E+02	7.341E+02	1.849E+02	4.508E+02	1.023E+02	2.589E+02	5.177E+01	1.326E+02	3.162E+01	8.141E+01
120	2.088E+02	4.606E+02	1.437E+02	3.105E+02	8.218E+01	1.750E+02	4.547E+01	9.237E+01	2.301E+01	4.546E+01	1.405E+01	2.748E+01
150	1.350E+02	2.161E+02	9.285E+01	1.324E+02	5.310E+01	6.356E+01	3.938E+01	2.921E+01	1.487E+01	1.244E+01	9.080E+00	4.950E+00
179	1.175E+02	1.503E+02	8.084E+01	8.432E+01	4.623E+01	3.376E+01	2.554E+01	1.204E+01	1.294E+01	3.450E+00	7.906E+00	1.355E+00
DEG	3.0E-00MEV		4.0E-00MEV		5.0E-00MEV		7.0E-00MEV		1.0E-01MEV		1.5E-01MEV	
1	6.687E+08	6.740E+08	3.982E+08	4.014E+08	2.645E+08	2.667E+08	1.413E+08	1.424E+08	7.182E+07	7.239E+07	3.290E+07	3.316E+07
2	4.188E+07	4.242E+07	2.489E+07	2.527E+07	1.654E+07	1.679E+07	8.832E+06	8.968E+06	4.489E+06	4.559E+06	2.056E+06	2.088E+06
3	8.258E+06	8.399E+06	4.918E+06	5.027E+06	3.267E+06	3.399E+06	1.745E+06	1.784E+06	8.870E+05	9.067E+05	4.063E+05	4.153E+05
4	2.614E+06	2.687E+06	1.557E+06	1.600E+06	1.034E+06	1.043E+06	5.523E+05	5.680E+05	2.808E+05	2.887E+05	1.286E+05	1.323E+05
6	5.169E+05	5.367E+05	3.078E+05	3.197E+05	2.045E+05	2.124E+05	1.092E+05	1.135E+05	5.551E+04	5.764E+04	2.543E+04	2.642E+04
8	1.638E+05	1.716E+05	9.754E+04	1.023E+05	6.479E+04	6.765E+04	3.460E+04	3.629E+04	1.759E+04	1.845E+04	8.057E+03	8.452E+03
10	6.720E+04	7.107E+04	4.002E+04	4.236E+04	2.659E+04	2.815E+04	1.420E+04	1.504E+04	7.218E+03	7.644E+03	3.306E+03	3.502E+03
15	1.336E+04	1.454E+04	7.956E+03	8.671E+03	5.285E+03	5.744E+03	2.823E+03	3.080E+03	1.435E+03	1.564E+03	6.572E+02	7.174E+02
20	4.265E+03	4.847E+03	2.540E+03	2.892E+03	1.687E+03	1.953E+03	9.011E+02	1.028E+03	4.581E+02	5.227E+02	2.098E+02	2.395E+02
30	8.641E+02	1.123E+03	5.147E+02	6.706E+02	3.419E+02	4.462E+02	1.826E+02	2.386E+02	9.281E+01	1.214E+02	4.251E+01	5.562E+01
45	1.808E+02	3.052E+02	1.077E+02	1.825E+02	7.133E+01	1.214E+02	3.820E+01	6.498E+01	1.942E+01	3.306E+01	8.895E+00	1.515E+01
60	6.204E+01	1.325E+02	3.695E+01	7.922E+01	2.455E+01	5.273E+01	1.311E+01	2.821E+01	6.664E+00	1.435E+01	3.052E+00	4.578E+00
75	2.823E+01	7.002E+01	1.682E+01	4.183E+01	1.117E+01	2.783E+01	5.966E+00	1.488E+01	3.033E+00	7.572E+00	1.389E+00	3.470E+00
90	1.551E+01	4.011E+01	9.238E+00	2.393E+01	6.137E+00	1.501E+01	3.277E+00	8.504E+00	1.666E+00	4.325E+00	7.631E+00	1.981E+00
120	6.894E+00	1.333E+01	4.106E+00	7.899E+00	2.727E+00	5.235E+00	1.457E+00	2.799E+00	7.404E+00	1.416E+00	3.391E+00	6.480E+00
150	4.454E+00	3.124E+00	2.653E+00	1.790E+00	1.742E+00	1.148E+00	9.412E+00	6.107E+00	4.784E+00	3.070E+00	2.191E+00	1.397E+00
179	3.878E+00	3.415E+00	2.310E+00	1.240E+00	1.534E+00	5.57E-02	8.195E+00	1.627E+00	4.166E+00	4.381E+00	1.908E+00	1.001E+00
DEG	2.0E-01MEV		3.0E-01MEV		4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E-02MEV	
1	1.879E+07	1.895E+07	8.488E+06	8.556E+06	4.813E+06	4.852E+06	3.096E+06	3.121E+06	1.589E+06	1.601E+06	7.817E+05	7.880E+05
2	1.175E+06	1.193E+06	5.306E+05	5.388E+05	3.009E+05	3.165E+05	1.935E+05	1.965E+05	9.930E+04	1.008E+05	4.887E+04	4.962E+04
3	2.321E+05	2.373E+05	1.048E+05	1.072E+05	5.945E+04	6.077E+04	3.824E+04	3.909E+04	1.962E+04	2.004E+04	9.655E+03	9.780E+03
4	7.347E+04	7.556E+04	3.318E+04	3.413E+04	1.882E+04	1.945E+04	1.210E+04	1.245E+04	6.210E+03	6.387E+03	3.056E+03	3.143E+03
6	1.453E+04	1.510E+04	6.561E+03	6.818E+03	3.721E+03	3.866E+03	2.393E+03	2.487E+03	1.228E+03	1.276E+03	6.043E+02	6.279E+02
8	4.603E+03	4.829E+03	2.079E+03	2.181E+03	1.179E+03	1.237E+03	7.562E+02	7.955E+02	3.891E+02	4.082E+02	1.915E+02	2.009E+02
10	1.889E+03	2.001E+03	8.531E+02	9.036E+02	4.838E+02	5.124E+02	3.111E+02	3.296E+02	1.597E+02	1.691E+02	7.857E+01	8.322E+01
15	3.755E+02	4.099E+02	1.696E+02	1.851E+02	9.617E+01	1.060E+02	6.185E+01	6.753E+01	3.174E+01	3.465E+01	1.562E+01	1.705E+01
20	1.199E+02	1.368E+02	5.414E+01	6.180E+01	3.070E+01	3.565E+01	1.975E+01	2.254E+01	1.013E+01	1.157E+01	4.986E+00	5.693E+00
30	2.429E+01	3.178E+01	1.097E+01	1.436E+01	6.221E+00	8.142E+00	4.001E+00	5.237E+00	2.053E+00	2.687E+00	1.010E+00	1.322E+00
45	5.082E+00	8.659E+00	2.295E+00	3.911E+00	1.302E+00	2.218E+00	8.371E+00	1.427E+00	4.295E+00	7.320E+00	2.114E+00	3.602E+00
60	1.744E+00	3.759E+00	7.876E+00	1.698E+00	4.466E+00	9.659E+00	2.873E+00	6.193E+00	1.474E+00	3.178E+00	7.254E+00	1.564E+00
75	7.936E+00	1.983E+00	3.584E+00	8.955E+00	2.033E+00	5.079E+00	1.307E+00	3.267E+00	6.708E+00	1.876E+00	3.307E+00	8.247E+00
90	4.360E+00	1.132E+00	1.969E+00	5.113E+00	1.117E+00	2.900E+00	7.181E+00	1.865E+00	3.685E+00	9.570E+00	1.813E+00	4.710E+00
120	1.938E+00	3.792E+00	8.751E+00	1.671E+00	4.963E+00	9.477E+00	3.192E+00	6.095E+00	1.638E+00	3.129E+00	8.059E+00	1.539E+00
150	1.252E+00	7.964E+00	5.654E+00	3.591E+00	3.207E+00	2.045E+00	2.062E+00	1.308E+00	1.058E+00	6.712E+00	5.208E+00	3.303E+00
179	1.090E+00	3.631E+00	4.923E+00	9.495E+00	2.792E+00	3.987E+00	1.796E+00	2.144E+00	9.214E+00	9.110E+00	4.534E+00	3.984E+00

AM (45)

(BARNS/STFADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	2.020E+15	2.022E+15	8.988E+14	8.993E+14	5.061E+14	5.064E+14	2.254E+14	2.255E+14	1.270E+14	1.271E+14	6.145E+13	6.150E+13
2	1.263E+14	1.264E+14	5.619E+13	5.622E+13	3.164E+13	3.168E+13	1.409E+13	1.410E+13	7.940E+12	7.946E+12	5.091E+12	5.095E+12
3	2.495E+13	2.497E+13	1.110E+13	1.111E+13	6.251E+12	6.255E+12	2.783E+12	2.786E+12	1.569E+12	1.570E+12	1.006E+12	1.007E+12
4	7.898E+12	7.904E+12	3.514E+12	3.516E+12	1.978E+12	1.980E+12	8.810E+11	8.818E+11	4.365E+11	4.371E+11	3.184E+11	3.187E+11
6	1.562E+12	1.563E+12	6.948E+11	6.953E+11	3.912E+11	3.915E+11	1.742E+11	1.744E+11	9.818E+10	9.838E+10	6.296E+10	6.303E+10
8	4.949E+11	4.952E+11	2.201E+11	2.203E+11	1.240E+11	1.241E+11	5.520E+10	5.525E+10	3.111E+10	3.115E+10	1.995E+10	1.998E+10
10	2.031E+11	2.032E+11	9.034E+10	9.044E+10	5.036E+10	5.043E+10	2.265E+10	2.269E+10	1.277E+10	1.279E+10	8.186E+09	8.205E+09
15	4.037E+10	4.041E+10	1.756E+10	1.799E+10	1.011E+10	1.013E+10	4.503E+09	4.512E+09	2.538E+09	2.541E+09	1.627E+09	1.632E+09
20	1.289E+10	1.290E+10	5.733E+09	5.745E+09	3.228E+09	3.230E+09	1.437E+09	1.439E+09	8.101E+08	8.135E+08	5.195E+08	5.214E+08
30	2.611E+09	2.617E+09	1.162E+09	1.166E+09	6.541E+08	6.547E+08	2.913E+08	2.925E+08	1.641E+08	1.648E+08	1.053E+08	1.060E+08
45	5.463E+08	5.444E+08	2.430E+08	2.449E+08	1.368E+08	1.361E+08	6.094E+07	6.175E+07	3.435E+07	3.461E+07	2.202E+07	2.188E+07
60	1.875E+08	1.858E+08	8.340E+07	8.438E+07	4.696E+07	4.763E+07	2.091E+07	2.049E+07	1.179E+07	1.165E+07	7.557E+06	7.678E+06
75	8.531E+07	8.812E+07	3.795E+07	3.680E+07	2.137E+07	2.042E+07	9.516E+06	9.842E+06	5.363E+06	5.733E+06	3.439E+06	3.667E+06
90	4.687E+07	4.439E+07	2.085E+07	2.176E+07	1.174E+07	1.283E+07	5.224E+06	5.583E+06	2.946E+06	2.954E+06	1.889E+06	1.788E+06
120	2.083E+07	1.814E+07	9.267E+06	7.144E+06	5.218E+06	3.882E+06	2.232E+06	1.792E+06	1.309E+06	1.090E+06	8.397E+05	7.553E+05
150	1.346E+07	1.701E+07	5.988E+06	8.477E+06	3.372E+06	5.167E+06	1.561E+06	2.549E+06	6.462E+05	1.542E+06	5.426E+05	1.042E+06
179	1.172E+07	2.436E+07	5.213E+06	1.142E+07	2.935E+06	6.678E+06	1.307E+06	3.139E+06	7.367E+05	1.838E+06	4.724E+05	1.214E+06
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	4.171E+13	4.175E+13	2.056E+13	2.057E+13	9.223E+12	9.223E+12	5.237E+12	5.242E+12	2.378E+12	2.373E+12	1.357E+12	1.359E+12
2	2.608E+12	2.610E+12	1.285E+12	1.286E+12	5.765E+11	5.773E+11	3.273E+11	3.278E+11	1.482E+11	1.485E+11	8.483E+10	8.503E+10
3	5.152E+11	5.158E+11	2.539E+11	2.543E+11	1.139E+11	1.141E+11	6.464E+10	6.482E+10	2.927E+10	2.935E+10	1.674E+10	1.682E+10
4	1.631E+11	1.633E+11	8.036E+10	8.950E+10	3.606E+10	3.614E+10	2.047E+10	2.052E+10	9.266E+09	9.298E+09	5.305E+09	5.331E+09
6	3.224E+10	3.231E+10	1.589E+10	1.592E+10	7.129E+09	7.147E+09	4.048E+09	4.060E+09	1.832E+09	1.843E+09	1.049E+09	1.055E+09
8	1.022E+10	1.023E+10	5.035E+09	5.052E+09	2.259E+09	2.265E+09	1.283E+09	1.290E+09	5.805E+08	5.844E+08	3.324E+08	3.343E+08
10	4.192E+09	4.202E+09	2.066E+09	2.073E+09	9.270E+08	9.310E+08	5.263E+08	5.304E+08	2.382E+08	2.395E+08	1.364E+08	1.374E+08
15	8.334E+08	8.360E+08	4.107E+08	4.122E+08	1.843E+08	1.849E+08	1.046E+08	1.051E+08	4.735E+07	4.775E+07	2.711E+07	2.764E+07
20	2.661E+08	2.666E+08	1.311E+08	1.325E+08	5.883E+07	5.900E+07	3.340E+07	3.352E+07	1.512E+07	1.546E+07	8.655E+06	8.757E+06
30	5.391E+07	5.445E+07	2.657E+07	2.650E+07	1.192E+07	1.208E+07	6.768E+06	6.886E+06	3.063E+06	3.101E+06	1.754E+06	1.807E+06
45	1.128E+07	1.124E+07	5.559E+06	5.723E+06	2.494E+06	2.606E+06	1.416E+06	1.456E+06	6.409E+05	6.341E+05	3.669E+05	3.562E+05
60	3.871E+06	4.065E+06	1.907E+06	1.988E+06	8.588E+05	8.488E+05	4.859E+05	4.652E+05	2.199E+05	2.078E+05	1.259E+05	1.223E+05
75	1.761E+06	1.798E+06	8.681E+05	8.294E+05	3.899E+05	3.548E+05	2.211E+05	2.028E+05	1.001E+05	9.878E+04	5.736E+04	6.161E+04
90	9.676E+05	8.510E+05	4.769E+05	4.082E+05	2.140E+05	1.957E+05	1.215E+05	1.186E+05	5.498E+04	6.235E+04	3.148E+04	4.609E+04
120	4.301E+05	4.420E+05	2.119E+05	2.524E+05	9.509E+04	1.330E+05	5.399E+04	8.340E+04	2.444E+04	4.332E+04	1.399E+04	2.667E+04
150	2.779E+05	5.750E+05	1.370E+05	3.049E+05	6.144E+04	1.472E+05	3.489E+04	8.735E+04	1.579E+04	4.148E+04	9.049E+03	2.427E+04
179	2.419E+05	6.487E+05	1.192E+05	3.334E+05	5.350E+04	1.569E+05	3.037E+04	9.054E+04	1.375E+04	6.175E+04	1.871E+03	2.392E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	8.836E+11	8.851E+11	4.660E+11	4.671E+11	2.392E+11	2.399E+11	1.140E+11	1.144E+11	6.827E+10	6.853E+10	3.373E+10	3.399E+10
2	5.523E+10	5.540E+10	2.913E+10	2.924E+10	1.495E+10	1.502E+10	7.124E+09	7.171E+09	4.267E+09	4.299E+09	2.108E+09	2.129E+09
3	1.051E+10	1.096E+10	5.755E+09	5.784E+09	2.954E+09	2.973E+09	1.408E+09	1.421E+09	6.431E+08	6.529E+08	4.166E+08	4.227E+08
4	3.454E+09	3.473E+09	1.822E+09	1.833E+09	9.351E+08	9.471E+08	4.458E+08	4.516E+08	2.669E+08	2.711E+08	1.319E+08	1.344E+08
6	9.830E+08	8.872E+08	3.602E+08	3.635E+08	1.849E+08	1.875E+08	8.814E+07	8.999E+07	5.277E+07	5.403E+07	2.607E+07	2.478E+07
8	2.164E+08	2.181E+08	1.141E+08	1.158E+08	5.858E+07	5.975E+07	2.793E+07	2.869E+07	1.672E+07	1.721E+07	8.281E+06	8.529E+06
10	8.081E+07	8.986E+07	4.683E+07	4.783E+07	2.404E+07	2.471E+07	1.146E+07	1.182E+07	6.861E+06	7.084E+06	3.390E+06	3.511E+06
15	1.755E+07	1.814E+07	9.310E+06	9.629E+06	4.779E+06	4.949E+06	2.278E+06	2.349E+06	1.364E+06	1.408E+06	6.739E+05	7.004E+05
20	5.636E+06	5.849E+06	2.972E+06	3.071E+06	1.524E+06	1.544E+06	7.273E+05	7.444E+05	4.354E+05	4.484E+05	2.151E+05	2.254E+05
30	1.142E+06	1.162E+06	6.022E+05	6.036E+05	3.091E+05	3.088E+05	1.474E+05	1.514E+05	8.822E+04	9.338E+04	4.359E+04	4.547E+04
45	2.339E+05	2.316E+05	1.260E+05	1.252E+05	6.468E+04	6.818E+04	3.083E+04	3.559E+04	1.848E+04	2.284E+04	9.120E+03	1.237E+04
60	8.199E+04	8.307E+04	4.324E+04	4.791E+04	2.219E+04	2.745E+04	1.058E+04	1.499E+04	6.334E+03	9.788E+03	3.138E+03	5.373E+03
75	3.731E+04	4.340E+04	1.968E+04	2.598E+04	1.016E+04	1.532E+04	4.815E+03	8.324E+03	2.883E+03	5.428E+03	1.474E+03	2.952E+03
90	2.050E+04	2.855E+04	1.081E+04	1.712E+04	5.549E+03	9.956E+03	2.645E+03	5.317E+03	1.584E+03	3.405E+03	7.024E+02	1.812E+03
120	9.110E+03	1.846E+04	4.804E+03	1.040E+04	2.466E+03	5.602E+03	1.176E+03	2.747E+03	7.038E+02	1.650E+03	3.477E+02	8.029E+02
150	5.886E+03	1.592E+04	3.104E+03	8.349E+03	1.593E+03	4.144E+03	7.597E+02	1.247E+03	4.548E+02	1.006E+03	2.247E+02	4.244E+02
179	5.125E+03	1.544E+04	2.703E+03	7.875E+03	1.387E+03	3.780E+03	6.814E+02	1.587E+03	3.959E+02	8.349E+02	1.956E+02	3.225E+02

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	2.069E+10	2.081E+10	1.424E+10	1.432E+10	8.141E+09	8.149E+09	4.504E+09	4.536E+09	2.279E+09	2.296E+09	1.392E+09	1.403E+09
2	1.293E+09	1.308E+09	8.899E+08	9.005E+08	5.089E+08	5.145E+08	2.816E+08	2.855E+08	1.425E+08	1.446E+08	8.703E+07	8.833E+07
3	2.555E+08	2.592E+08	1.758E+08	1.789E+08	1.005E+08	1.025E+08	5.503E+07	5.576E+07	2.815E+07	2.875E+07	1.719E+07	1.757E+07
4	8.089E+07	8.261E+07	5.565E+07	5.692E+07	3.183E+07	3.260E+07	1.761E+07	1.806E+07	8.911E+06	9.152E+06	5.442E+06	5.593E+06
6	1.599E+07	1.646E+07	1.100E+07	1.135E+07	6.293E+06	6.502E+06	3.482E+06	3.605E+06	1.762E+06	1.827E+06	1.076E+06	1.117E+06
8	5.688E+06	5.245E+06	3.487E+06	3.614E+06	1.994E+06	2.074E+06	1.103E+06	1.151E+06	5.583E+05	5.837E+05	3.410E+05	3.569E+05
10	2.080E+06	2.160E+06	1.431E+06	1.491E+06	8.182E+05	8.560E+05	4.527E+05	4.755E+05	2.291E+05	2.414E+05	1.399E+05	1.477E+05
15	4.134E+05	4.329E+05	2.844E+05	2.998E+05	1.627E+05	1.740E+05	8.999E+04	9.651E+04	4.554E+04	4.916E+04	2.782E+04	3.012E+04
20	1.320E+05	1.404E+05	9.080E+04	9.773E+04	5.192E+04	5.602E+04	2.873E+04	3.187E+04	1.454E+04	1.630E+04	8.880E+03	1.000E+04
30	2.674E+04	3.079E+04	1.840E+04	2.171E+04	1.052E+04	1.281E+04	5.821E+03	7.263E+03	2.946E+03	3.744E+03	1.799E+03	2.307E+03
45	5.595E+03	6.027E+03	3.850E+03	5.731E+03	2.201E+03	3.457E+03	1.218E+03	1.962E+03	6.163E+02	1.018E+03	3.765E+02	4.286E+02
60	1.920E+03	3.503E+03	1.321E+03	2.506E+03	7.554E+02	1.500E+03	4.179E+02	8.591E+02	2.115E+02	4.457E+02	1.292E+02	2.753E+02
75	8.737E+02	1.911E+03	6.011E+02	1.361E+03	3.438E+02	8.096E+02	1.902E+02	4.611E+02	9.625E+01	2.383E+02	5.879E+01	1.469E+02
90	4.809E+02	1.156E+03	3.302E+02	8.148E+02	1.888E+02	4.786E+02	1.045E+02	2.588E+02	5.287E+01	1.383E+02	3.229E+01	8.498E+01
120	2.133E+02	4.923E+02	1.468E+02	3.255E+02	8.930E+01	1.806E+02	4.644E+01	9.713E+01	2.350E+01	3.796E+01	1.445E+01	2.894E+01
150	1.378E+02	2.272E+02	9.484E+01	1.394E+02	5.424E+01	6.667E+01	3.001E+01	3.083E+01	1.518E+01	1.317E+01	9.44E+00	7.350E+00
179	1.200E+02	1.581E+02	8.257E+01	8.876E+01	4.722E+01	3.556E+01	2.613E+01	1.269E+01	1.322E+01	3.636E+00	8.075E+00	1.428E+00
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	6.830E+08	6.884E+08	4.068E+08	4.100E+08	2.702E+08	2.734E+08	1.443E+08	1.455E+08	7.335E+07	7.395E+07	3.360E+07	3.397E+07
2	4.269E+07	4.333E+07	2.543E+07	2.581E+07	1.689E+07	1.715E+07	9.021E+06	9.158E+06	4.585E+06	4.655E+06	2.100E+06	2.132E+06
3	8.435E+06	8.620E+06	5.024E+06	5.135E+06	3.337E+06	3.411E+06	1.782E+06	1.822E+06	9.040E+05	9.262E+05	4.560E+05	4.722E+05
4	2.670E+06	2.745E+06	1.590E+06	1.635E+06	1.056E+06	1.086E+06	5.641E+05	5.802E+05	2.866E+05	2.949E+05	1.313E+05	1.351E+05
6	5.279E+05	5.482E+05	3.144E+05	3.266E+05	2.089E+05	2.170E+05	1.115E+05	1.159E+05	5.670E+04	5.892E+04	2.597E+04	2.699E+04
8	1.673E+05	1.753E+05	9.962E+04	1.044E+05	6.818E+04	6.939E+04	3.534E+04	3.708E+04	1.797E+04	1.884E+04	8.229E+03	8.631E+03
10	6.864E+04	7.255E+04	4.058E+04	4.323E+04	2.716E+04	2.837E+04	1.450E+04	1.535E+04	7.372E+03	7.802E+03	3.377E+03	3.574E+03
15	1.364E+04	1.482E+04	8.127E+03	8.834E+03	5.399E+03	5.872E+03	2.883E+03	3.138E+03	1.466E+03	1.595E+03	6.713E+02	7.309E+02
20	4.356E+03	4.929E+03	2.594E+03	2.941E+03	1.723E+03	1.955E+03	9.204E+02	1.045E+03	4.679E+02	5.315E+02	2.143E+02	2.435E+02
30	8.826E+02	1.140E+03	5.257E+02	6.808E+02	3.492E+02	4.570E+02	1.865E+02	2.423E+02	9.480E+01	1.232E+02	4.362E+01	5.647E+01
45	1.847E+02	3.113E+02	1.101E+02	1.861E+02	7.306E+01	1.239E+02	3.902E+01	8.628E+01	1.984E+01	3.373E+01	9.085E+00	1.566E+01
60	6.337E+01	1.363E+02	3.774E+01	8.149E+01	2.507E+01	5.454E+01	1.339E+01	2.902E+01	6.806E+00	1.477E+01	3.118E+00	6.767E+00
75	2.884E+01	7.261E+01	1.718E+01	4.338E+01	1.141E+01	2.886E+01	5.094E+00	1.544E+01	3.097E+00	7.854E+00	1.419E+00	3.599E+00
90	1.584E+01	4.168E+01	9.435E+00	2.499E+01	6.268E+00	1.661E+01	3.347E+00	8.881E+00	1.702E+00	4.517E+00	7.794E+00	2.069E+00
120	7.041E+00	1.404E+01	4.194E+00	8.325E+00	2.786E+00	5.517E+00	1.488E+00	2.940E+00	7.563E+00	1.492E+00	3.464E+00	8.831E+00
150	4.550E+00	3.306E+00	2.710E+00	1.896E+00	1.800E+00	1.234E+00	9.614E+00	4.468E+00	4.847E+00	2.252E+00	2.238E+00	1.480E+00
179	3.961E+00	3.601E+00	2.359E+00	1.307E+00	1.567E+00	5.860E+00	8.370E+00	3.716E+00	4.255E+00	4.622E+00	1.949E+00	1.057E+00
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.920E+07	1.935E+07	8.669E+06	8.739E+06	4.916E+06	4.956E+06	3.162E+06	3.188E+06	1.623E+06	1.636E+06	7.985E+05	8.049E+05
2	1.200E+06	1.218E+06	5.419E+05	5.502E+05	3.073E+05	3.120E+05	1.977E+05	2.007E+05	1.014E+05	1.030E+05	4.991E+04	5.067E+04
3	2.371E+05	2.424E+05	1.071E+05	1.095E+05	6.072E+04	6.208E+04	3.905E+04	3.993E+04	2.004E+04	2.049E+04	9.862E+03	1.008E+04
4	7.504E+04	7.718E+04	3.389E+04	3.486E+04	1.722E+04	1.777E+04	1.236E+04	1.271E+04	6.343E+03	6.524E+03	3.121E+03	3.210E+03
6	1.484E+04	1.542E+04	6.701E+03	6.964E+03	3.800E+03	3.949E+03	2.444E+03	2.560E+03	1.254E+03	1.303E+03	6.172E+02	6.414E+02
8	4.702E+03	4.931E+03	2.123E+03	2.227E+03	1.204E+03	1.263E+03	7.745E+02	8.123E+02	3.974E+02	4.168E+02	1.956E+02	2.051E+02
10	1.929E+03	2.042E+03	8.713E+02	9.223E+02	4.941E+02	5.230E+02	3.178E+02	3.364E+02	1.631E+02	1.726E+02	8.025E+01	8.494E+01
15	3.835E+02	4.176E+02	1.732E+02	1.886E+02	9.823E+01	1.070E+02	6.318E+01	6.880E+01	3.242E+01	3.530E+01	1.595E+01	1.737E+01
20	1.224E+02	1.392E+02	5.529E+01	6.285E+01	3.136E+01	3.544E+01	2.017E+01	2.292E+01	1.035E+01	1.178E+01	5.093E+00	5.789E+00
30	2.481E+01	3.227E+01	1.120E+01	1.458E+01	6.354E+00	8.266E+00	4.087E+00	5.317E+00	2.097E+00	2.728E+00	1.032E+00	1.363E+00
45	5.191E+00	8.833E+00	2.344E+00	3.990E+00	1.329E+00	2.263E+00	8.550E+00	1.455E+00	4.387E+00	7.468E+00	2.159E+00	3.675E+00
60	1.781E+00	3.867E+00	8.044E+00	1.747E+00	4.562E+00	9.907E+00	2.934E+00	4.372E+00	1.505E+00	3.270E+00	7.409E+00	1.689E+00
75	8.106E+00	2.057E+00	3.661E+00	9.290E+00	2.076E+00	5.268E+00	1.335E+00	3.389E+00	6.851E+00	1.739E+00	3.372E+00	8.557E+00
90	4.453E+00	1.182E+00	2.011E+00	5.340E+00	1.140E+00	3.029E+00	7.335E+00	1.948E+00	3.764E+00	9.995E+00	1.852E+00	4.919E+00
120	1.979E+00	3.902E+00	8.938E+00	1.762E+00	5.069E+00	9.991E+00	3.260E+00	6.425E+00	1.673E+00	3.297E+00	8.232E+00	1.622E+00
150	1.279E+00	8.437E+00	5.775E+00	3.804E+00	3.275E+00	2.156E+00	2.197E+00	1.396E+00	1.081E+00	7.111E+00	5.319E+00	3.499E+00
179	1.113E+00	3.835E+00	5.028E+00	1.004E+00	2.852E+00	4.219E+00	1.834E+00	2.270E+00	9.411E+00	9.652E+00	4.631E+00	4.224E+00

200

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	2.063E+15	2.082E+15	9.179E+14	9.184E+14	5.168E+14	5.171E+14	2.301E+14	2.303E+14	1.297E+14	1.298E+14	8.317E+13	8.322E+13
2	1.290E+14	1.290E+14	5.738E+13	5.741E+13	3.231E+13	3.233E+13	1.439E+13	1.440E+13	8.108E+12	8.114E+12	5.199E+12	5.203E+12
3	2.548E+13	2.550E+13	1.134E+13	1.134E+13	6.383E+12	6.388E+12	2.842E+12	2.845E+12	1.602E+12	1.603E+12	1.027E+12	1.028E+12
4	8.066E+12	8.071E+12	3.588E+12	3.591E+12	2.020E+12	2.022E+12	8.997E+11	9.005E+11	5.070E+11	5.076E+11	3.251E+11	3.255E+11
6	1.595E+12	1.596E+12	7.095E+11	7.100E+11	3.995E+11	3.998E+11	1.779E+11	1.781E+11	1.003E+11	1.004E+11	6.429E+10	6.437E+10
8	5.053E+11	5.057E+11	2.248E+11	2.250E+11	1.266E+11	1.267E+11	5.637E+10	5.642E+10	3.177E+10	3.181E+10	2.037E+10	2.040E+10
10	2.074E+11	2.075E+11	9.225E+10	9.235E+10	5.194E+10	5.200E+10	2.713E+10	2.717E+10	1.304E+10	1.305E+10	8.359E+09	8.379E+09
15	4.122E+10	4.126E+10	1.834E+10	1.837E+10	1.033E+10	1.034E+10	4.598E+09	4.607E+09	2.591E+09	2.595E+09	1.662E+09	1.665E+09
20	1.316E+10	1.317E+10	5.854E+09	5.865E+09	3.296E+09	3.298E+09	1.468E+09	1.469E+09	8.273E+08	8.304E+08	5.305E+08	5.328E+08
30	2.666E+09	2.674E+09	1.186E+09	1.191E+09	6.679E+08	6.674E+08	2.974E+08	2.989E+08	1.676E+08	1.674E+08	1.075E+08	1.081E+08
45	5.579E+08	5.562E+08	2.402E+08	2.503E+08	1.397E+08	1.340E+08	6.223E+07	6.302E+07	3.507E+07	3.541E+07	2.249E+07	2.237E+07
60	1.914E+08	1.902E+08	8.517E+07	8.594E+07	4.795E+07	4.895E+07	2.135E+07	2.094E+07	1.203E+07	1.186E+07	7.717E+06	7.712E+06
75	8.712E+07	9.019E+07	3.876E+07	3.770E+07	2.182E+07	2.098E+07	9.718E+06	1.001E+07	5.477E+06	5.856E+06	3.512E+06	3.760E+06
90	4.785E+07	4.508E+07	2.129E+07	2.208E+07	1.199E+07	1.310E+07	5.338E+06	5.746E+06	3.009E+06	3.046E+06	1.929E+06	1.841E+06
120	2.127E+07	1.872E+07	9.463E+06	7.305E+06	5.328E+06	3.319E+06	2.373E+06	1.804E+06	1.337E+06	1.094E+06	8.575E+05	7.579E+05
150	1.374E+07	1.725E+07	6.115E+06	8.620E+06	3.443E+06	5.754E+06	1.533E+06	2.804E+06	8.641E+05	1.574E+06	5.541E+05	1.068E+06
179	1.197E+07	2.509E+07	5.324E+06	1.177E+07	2.998E+06	6.888E+06	1.335E+06	3.240E+06	7.523E+05	1.499E+06	4.624E+05	1.255E+06
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	4.260E+13	4.263E+13	2.099E+13	2.101E+13	9.419E+12	9.427E+12	5.347E+12	5.353E+12	2.420E+12	2.423E+12	1.386E+12	1.388E+12
2	2.663E+12	2.665E+12	1.312E+12	1.314E+12	5.887E+11	5.895E+11	3.343E+11	3.348E+11	1.513E+11	1.516E+11	8.662E+10	8.683E+10
3	5.261E+11	5.267E+11	2.593E+11	2.596E+11	1.143E+11	1.145E+11	6.604E+10	6.619E+10	2.949E+10	2.947E+10	1.712E+10	1.718E+10
4	1.665E+11	1.667E+11	8.207E+10	8.221E+10	3.682E+10	3.690E+10	2.090E+10	2.096E+10	9.462E+09	9.494E+09	5.417E+09	5.445E+09
6	3.293E+10	3.299E+10	1.623E+10	1.626E+10	7.280E+09	7.302E+09	4.133E+09	4.146E+09	1.871E+09	1.882E+09	1.071E+09	1.078E+09
8	1.043E+10	1.045E+10	5.142E+09	5.159E+09	2.307E+09	2.319E+09	1.310E+09	1.317E+09	5.528E+08	5.469E+08	3.394E+08	3.414E+08
10	4.281E+09	4.290E+09	2.110E+09	2.117E+09	9.466E+08	9.504E+08	5.374E+08	5.417E+08	2.433E+08	2.447E+08	1.393E+08	1.402E+08
15	8.511E+08	8.541E+08	4.194E+08	4.208E+08	1.882E+08	1.900E+08	1.068E+08	1.074E+08	4.836E+07	4.871E+07	2.769E+07	2.820E+07
20	2.717E+08	2.721E+08	1.339E+08	1.353E+08	6.007E+07	6.029E+07	3.411E+07	3.420E+07	1.544E+07	1.577E+07	8.838E+06	9.147E+06
30	5.505E+07	5.566E+07	2.713E+07	2.707E+07	1.217E+07	1.229E+07	6.911E+06	7.127E+06	3.128E+06	3.264E+06	1.791E+06	1.851E+06
45	1.152E+07	1.146E+07	5.676E+06	5.833E+06	2.547E+06	2.647E+06	1.446E+06	1.493E+06	6.545E+05	6.496E+05	3.747E+05	3.639E+05
60	3.953E+06	4.150E+06	1.948E+06	2.038E+06	8.739E+05	8.711E+05	4.962E+05	4.763E+05	2.246E+05	2.115E+05	1.286E+05	1.240E+05
75	1.799E+06	1.849E+06	8.864E+05	8.517E+05	3.977E+05	3.621E+05	2.258E+05	2.060E+05	1.022E+05	9.784E+04	5.851E+04	6.223E+04
90	9.881E+05	8.720E+05	4.870E+05	4.152E+05	2.185E+05	1.948E+05	1.240E+05	1.196E+05	5.614E+04	4.295E+04	3.215E+04	4.058E+04
120	4.392E+05	4.443E+05	2.164E+05	2.546E+05	9.710E+04	1.349E+05	5.513E+04	8.536E+04	2.495E+04	4.429E+04	1.429E+04	2.756E+04
150	2.838E+05	5.905E+05	1.398E+05	3.137E+05	6.274E+04	1.519E+05	3.562E+04	9.027E+04	1.612E+04	4.298E+04	9.232E+03	2.518E+04
179	2.471E+05	6.713E+05	1.218E+05	3.455E+05	5.403E+04	1.618E+05	3.102E+04	9.406E+04	1.404E+04	4.344E+04	8.038E+03	2.493E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	9.023E+11	9.038E+11	4.758E+11	4.770E+11	2.443E+11	2.440E+11	1.184E+11	1.168E+11	4.971E+10	4.998E+10	3.444E+10	3.461E+10
2	5.640E+10	5.657E+10	2.974E+10	2.986E+10	1.527E+10	1.534E+10	7.279E+09	7.323E+09	4.358E+09	4.398E+09	2.153E+09	2.174E+09
3	1.114E+10	1.119E+10	5.877E+09	5.907E+09	3.017E+09	3.036E+09	1.438E+09	1.451E+09	8.610E+08	8.718E+08	4.254E+08	4.316E+08
4	3.527E+09	3.546E+09	1.850E+09	1.871E+09	9.549E+08	9.630E+08	4.557E+08	4.611E+08	2.725E+08	2.769E+08	1.364E+08	1.373E+08
6	6.975E+08	7.017E+08	3.678E+08	3.711E+08	1.888E+08	1.910E+08	9.001E+07	9.189E+07	5.388E+07	5.519E+07	2.862E+07	2.736E+07
8	2.210E+08	2.227E+08	1.165E+08	1.182E+08	5.942E+07	6.113E+07	2.852E+07	2.931E+07	1.707E+07	1.759E+07	8.836E+06	8.715E+06
10	9.048E+07	9.171E+07	4.782E+07	4.882E+07	2.435E+07	2.525E+07	1.170E+07	1.204E+07	7.086E+06	7.248E+06	3.427E+06	3.587E+06
15	1.803E+07	1.852E+07	9.507E+06	9.841E+06	4.880E+06	5.041E+06	2.326E+06	2.402E+06	1.393E+06	1.439E+06	6.881E+05	7.150E+05
20	5.755E+06	5.980E+06	3.035E+06	3.143E+06	1.558E+06	1.600E+06	7.827E+05	7.804E+05	4.446E+05	4.575E+05	2.197E+05	2.286E+05
30	1.266E+06	1.190E+06	6.150E+05	6.172E+05	3.157E+05	3.149E+05	1.505E+05	1.539E+05	9.009E+04	9.474E+04	4.451E+04	4.915E+04
45	2.405E+05	2.360E+05	1.287E+05	1.271E+05	6.805E+04	6.899E+04	3.149E+04	3.600E+04	1.895E+04	2.311E+04	9.317E+03	1.254E+04
60	8.372E+04	8.405E+04	4.415E+04	4.842E+04	2.265E+04	2.747E+04	1.080E+04	1.520E+04	6.468E+03	9.949E+03	3.196E+03	5.486E+03
75	3.810E+04	4.386E+04	2.009E+04	2.632E+04	1.071E+04	1.508E+04	4.917E+03	5.506E+03	2.944E+03	5.559E+03	1.454E+03	3.034E+03
90	2.093E+04	2.897E+04	1.104E+04	1.744E+04	5.666E+03	1.016E+04	2.701E+03	5.446E+03	1.617E+03	1.512E+03	7.990E+02	1.876E+03
120	9.302E+03	1.896E+04	4.904E+03	1.073E+04	2.518E+03	5.801E+03	1.201E+03	2.855E+03	7.187E+02	1.719E+03	3.551E+02	8.389E+02
150	6.011E+03	1.655E+04	3.170E+03	8.695E+03	1.627E+03	4.355E+03	7.757E+02	1.911E+03	4.644E+02	1.054E+03	2.294E+02	4.455E+02
179	5.233E+03	1.610E+04	2.760E+03	8.228E+03	1.417E+03	3.946E+03	6.754E+02	1.664E+03	4.943E+02	8.744E+02	1.904E+02	3.390E+02

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	2.113E+10	2.125E+10	1.454E+10	1.462E+10	8.314E+09	8.368E+09	4.610E+09	4.632E+09	2.374E+09	2.385E+09	1.422E+09	1.433E+09
2	1.321E+09	1.335E+09	9.087E+08	9.196E+08	5.197E+08	5.265E+08	2.875E+08	2.916E+08	1.455E+08	1.474E+08	8.887E+07	9.021E+07
3	2.610E+08	2.655E+08	1.795E+08	1.827E+08	1.027E+08	1.047E+08	5.681E+07	5.797E+07	2.875E+07	2.936E+07	1.556E+07	1.594E+07
4	8.260E+07	8.439E+07	5.683E+07	5.813E+07	3.250E+07	3.330E+07	1.749E+07	1.845E+07	9.099E+06	9.347E+06	5.554E+06	5.712E+06
6	1.633E+07	1.682E+07	1.124E+07	1.159E+07	6.426E+06	6.642E+06	3.555E+06	3.682E+06	1.749E+06	1.866E+06	1.099E+06	1.141E+06
8	5.175E+06	5.358E+06	3.561E+06	3.694E+06	2.036E+06	2.114E+06	1.127E+06	1.175E+06	5.781E+05	5.940E+05	3.482E+05	3.644E+05
10	2.124E+06	2.207E+06	1.461E+06	1.522E+06	8.345E+05	8.741E+05	4.623E+05	4.854E+05	2.339E+05	2.434E+05	1.429E+05	1.507E+05
15	4.221E+05	4.417E+05	2.904E+05	3.057E+05	1.661E+05	1.744E+05	9.190E+04	9.835E+04	4.650E+04	5.009E+04	2.840E+04	3.069E+04
20	1.348E+05	1.429E+05	9.272E+04	9.947E+04	5.302E+04	5.779E+04	2.934E+04	3.240E+04	1.485E+04	1.657E+04	9.069E+03	1.017E+04
30	2.731E+04	3.121E+04	1.879E+04	2.201E+04	1.074E+04	1.249E+04	5.944E+03	7.363E+03	3.004E+03	3.798E+03	1.837E+03	2.340E+03
45	5.713E+03	8.144E+03	3.931E+03	5.820E+03	2.248E+03	3.444E+03	1.244E+03	1.996E+03	6.294E+02	1.036E+03	3.844E+02	6.403E+02
60	1.960E+03	3.579E+03	1.349E+03	2.564E+03	7.714E+02	1.548E+03	4.268E+02	8.815E+02	2.160E+02	4.577E+02	1.319E+02	2.828E+02
75	8.922E+02	1.969E+03	6.139E+02	1.404E+03	3.510E+02	7.365E+02	1.942E+02	4.771E+02	9.929E+01	2.667E+02	6.003E+01	1.522E+02
90	4.901E+02	1.199E+03	3.372E+02	8.463E+02	1.928E+02	4.979E+02	1.067E+02	2.011E+02	5.399E+01	1.442E+02	3.298E+01	8.864E+01
120	2.178E+02	5.650E+02	1.499E+02	3.412E+02	6.571E+01	1.887E+02	4.742E+01	1.021E+02	2.400E+01	5.048E+01	1.466E+01	3.048E+01
150	1.408E+02	2.389E+02	9.685E+01	1.467E+02	5.538E+01	7.023E+01	3.064E+01	3.253E+01	1.551E+01	1.392E+01	9.471E+00	7.772E+00
179	1.225E+02	1.663E+02	8.432E+01	9.343E+01	4.822E+01	3.746E+01	2.668E+01	1.337E+01	1.350E+01	3.833E+00	8.246E+00	1.506E+00
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	6.974E+08	7.028E+08	4.154E+08	4.186E+08	2.749E+08	2.781E+08	1.474E+08	1.485E+08	7.491E+07	7.551E+07	3.431E+07	3.459E+07
2	4.360E+07	4.426E+07	2.596E+07	2.637E+07	1.725E+07	1.761E+07	9.212E+06	9.352E+06	4.882E+06	4.754E+06	2.145E+06	2.177E+06
3	8.614E+06	8.804E+06	5.130E+06	5.244E+06	3.408E+06	3.444E+06	1.826E+06	1.861E+06	9.252E+05	9.459E+05	4.237E+05	4.333E+05
4	2.726E+06	2.803E+06	1.624E+06	1.670E+06	1.079E+06	1.109E+06	5.761E+05	5.926E+05	2.928E+05	3.012E+05	1.341E+05	1.380E+05
6	5.391E+05	5.599E+05	3.211E+05	3.366E+05	2.133E+05	2.216E+05	1.139E+05	1.184E+05	5.790E+04	6.018E+04	2.652E+04	2.756E+04
8	1.708E+05	1.790E+05	1.017E+05	1.066E+05	6.758E+04	7.045E+04	3.609E+04	3.784E+04	1.835E+04	1.974E+04	8.402E+03	8.812E+03
10	7.009E+04	7.404E+04	4.175E+04	4.412E+04	2.773E+04	2.942E+04	1.481E+04	1.565E+04	7.528E+03	7.962E+03	3.647E+03	3.812E+03
15	1.393E+04	1.509E+04	8.299E+03	8.999E+03	5.513E+03	5.942E+03	2.944E+03	3.196E+03	1.497E+03	1.625E+03	6.853E+02	7.445E+02
20	4.448E+03	5.011E+03	2.649E+03	2.990E+03	1.740E+03	1.948E+03	9.393E+02	1.062E+03	4.778E+02	5.403E+02	2.188E+02	2.476E+02
30	9.013E+02	1.156E+03	5.368E+02	6.907E+02	3.566E+02	4.596E+02	1.934E+02	2.458E+02	9.681E+01	1.250E+02	4.424E+01	5.730E+01
45	1.886E+02	3.172E+02	1.123E+02	1.897E+02	7.461E+01	1.263E+02	3.785E+01	6.755E+01	2.025E+01	3.438E+01	9.277E+00	1.578E+01
60	6.471E+01	1.401E+02	3.854E+01	8.377E+01	2.560E+01	5.576E+01	1.367E+01	2.983E+01	6.950E+00	1.518E+01	3.163E+00	6.957E+00
75	2.945E+01	7.526E+01	1.754E+01	4.497E+01	1.185E+01	2.992E+01	6.223E+00	1.601E+01	3.163E+00	8.143E+00	1.449E+00	3.732E+00
90	1.618E+01	4.370E+01	9.635E+00	2.608E+01	6.401E+00	1.744E+01	3.418E+00	9.271E+00	1.738E+00	4.715E+00	7.959E+00	2.160E+00
120	7.190E+00	1.479E+01	4.282E+00	8.772E+00	2.845E+00	5.814E+00	1.519E+00	3.098E+00	7.723E+00	1.573E+00	3.537E+00	7.200E+00
150	4.646E+00	3.499E+00	2.767E+00	2.007E+00	1.838E+00	1.307E+00	9.817E+00	6.851E+00	4.990E+00	3.444E+00	2.746E+00	1.568E+00
179	4.045E+00	3.797E+00	2.409E+00	1.378E+00	1.600E+00	6.180E+00	8.547E+00	1.810E+00	4.345E+00	4.876E+00	1.999E+00	1.115E+00
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	1.950E+07	1.976E+07	8.853E+06	8.924E+06	5.020E+06	5.041E+06	3.229E+06	3.255E+06	1.657E+06	1.670E+06	8.154E+05	8.220E+05
2	1.225E+06	1.244E+06	5.534E+05	5.619E+05	3.138E+05	3.184E+05	2.018E+05	2.049E+05	1.036E+05	1.052E+05	5.097E+04	5.175E+04
3	2.421E+05	2.476E+05	1.093E+05	1.110E+05	6.201E+04	6.340E+04	3.988E+04	4.078E+04	2.046E+04	2.092E+04	1.007E+04	1.030E+04
4	7.663E+04	7.883E+04	3.461E+04	3.560E+04	1.963E+04	2.019E+04	1.242E+04	1.299E+04	6.477E+03	6.663E+03	3.187E+03	3.279E+03
6	1.515E+04	1.575E+04	6.843E+03	7.113E+03	3.881E+03	4.034E+03	2.496E+03	2.594E+03	1.281E+03	1.331E+03	6.303E+02	6.551E+02
8	4.801E+03	5.035E+03	2.168E+03	2.274E+03	1.230E+03	1.290E+03	7.906E+02	8.294E+02	4.058E+02	4.256E+02	1.997E+02	2.094E+02
10	1.970E+03	2.084E+03	8.897E+02	9.412E+02	5.046E+02	5.337E+02	3.245E+02	3.433E+02	1.665E+02	1.761E+02	8.195E+01	8.688E+01
15	3.916E+02	4.254E+02	1.769E+02	1.921E+02	1.003E+02	1.090E+02	6.451E+01	7.008E+01	3.310E+01	3.596E+01	1.629E+01	1.770E+01
20	1.250E+02	1.415E+02	5.646E+01	6.389E+01	3.202E+01	3.653E+01	2.059E+01	2.330E+01	1.057E+01	1.196E+01	5.200E+00	5.886E+00
30	2.533E+01	3.274E+01	1.144E+01	1.479E+01	6.488E+00	8.387E+00	4.173E+00	5.394E+00	2.141E+00	2.768E+00	1.054E+00	1.362E+00
45	5.301E+00	9.003E+00	2.394E+00	4.067E+00	1.358E+00	2.308E+00	8.731E+00	1.483E+00	4.480E+00	7.612E+00	2.205E+00	3.746E+00
60	1.819E+00	3.976E+00	8.214E+00	1.796E+00	4.688E+00	1.019E+00	2.996E+00	6.551E+00	1.537E+00	1.381E+00	7.565E+00	1.654E+00
75	8.277E+00	1.132E+00	3.738E+00	9.632E+00	2.120E+00	5.462E+00	1.363E+00	3.513E+00	6.996E+00	1.803E+00	3.443E+00	8.872E+00
90	4.547E+00	1.235E+00	2.054E+00	5.576E+00	1.165E+00	3.142E+00	7.498E+00	2.034E+00	3.843E+00	1.044E+00	1.891E+00	3.135E+00
120	2.021E+00	4.113E+00	9.127E+00	1.857E+00	5.176E+00	1.053E+00	3.329E+00	6.773E+00	1.708E+00	3.475E+00	8.405E+00	1.710E+00
150	1.306E+00	8.937E+00	5.898E+00	4.029E+00	3.345E+00	2.244E+00	2.151E+00	1.686E+00	1.104E+00	7.532E+00	5.432E+00	3.706E+00
179	1.137E+00	4.050E+00	5.135E+00	1.061E+00	2.912E+00	4.463E+00	1.873E+00	2.403E+00	9.610E+00	1.023E+00	4.729E+00	4.478E+00

BK (97)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	2.106E+15	2.123E+15	9.371E+14	9.376E+14	5.276E+14	5.279E+14	2.350E+14	2.351E+14	1.324E+14	1.325E+14	8.491E+13	8.497E+13
2	1.317E+14	1.317E+14	5.856E+13	5.861E+13	3.298E+13	3.300E+13	1.469E+13	1.470E+13	8.277E+12	8.284E+12	5.308E+12	5.312E+12
3	2.602E+13	2.603E+13	1.157E+13	1.158E+13	6.517E+12	6.521E+12	2.902E+12	2.904E+12	1.635E+12	1.637E+12	1.049E+12	1.050E+12
4	8.234E+12	8.240E+12	3.563E+12	3.666E+12	2.063E+12	2.064E+12	9.185E+11	9.193E+11	5.177E+11	5.182E+11	3.319E+11	3.323E+11
6	1.628E+12	1.629E+12	7.244E+11	7.249E+11	4.078E+11	4.082E+11	1.816E+11	1.818E+11	1.024E+11	1.025E+11	6.564E+10	6.573E+10
8	5.159E+11	5.163E+11	2.295E+11	2.297E+11	1.292E+11	1.294E+11	5.755E+10	5.760E+10	3.243E+10	3.248E+10	2.080E+10	2.083E+10
10	2.117E+11	2.119E+11	9.418E+10	9.428E+10	5.303E+10	5.309E+10	2.361E+10	2.365E+10	1.331E+10	1.332E+10	8.534E+09	8.556E+09
15	4.208E+10	4.211E+10	1.872E+10	1.875E+10	1.054E+10	1.056E+10	4.694E+09	4.702E+09	2.646E+09	2.650E+09	1.696E+09	1.700E+09
20	1.343E+10	1.344E+10	5.977E+09	5.986E+09	3.365E+09	3.367E+09	1.499E+09	1.501E+09	8.446E+08	8.474E+08	5.416E+08	5.442E+08
30	2.722E+09	2.730E+09	1.211E+09	1.215E+09	6.819E+08	6.814E+08	3.036E+08	3.054E+08	1.711E+08	1.709E+08	1.097E+08	1.103E+08
45	5.696E+08	5.683E+08	2.534E+08	2.557E+08	1.427E+08	1.420E+08	6.353E+07	6.427E+07	3.581E+07	3.622E+07	2.296E+07	2.287E+07
60	1.954E+08	1.947E+08	8.695E+07	8.748E+07	4.896E+07	5.007E+07	2.180E+07	2.141E+07	1.229E+07	1.207E+07	7.879E+06	7.945E+06
75	8.894E+07	9.223E+07	3.957E+07	3.863E+07	2.228E+07	2.135E+07	9.921E+06	1.016E+07	5.592E+06	5.978E+06	3.586E+06	3.853E+06
90	4.886E+07	4.580E+07	2.174E+07	2.238E+07	1.224E+07	1.337E+07	5.450E+06	5.911E+06	3.072E+06	3.141E+06	1.970E+06	1.897E+06
120	2.172E+07	1.932E+07	9.661E+06	7.477E+06	5.440E+06	4.000E+06	2.422E+06	1.815E+06	1.365E+06	1.097E+06	8.754E+05	7.988E+05
150	1.403E+07	1.749E+07	6.243E+06	6.759E+06	3.515E+06	5.349E+06	1.555E+06	2.658E+06	8.822E+05	1.613E+06	5.657E+05	1.093E+06
179	1.222E+07	2.583E+07	5.435E+06	1.213E+07	3.060E+06	7.100E+06	1.363E+06	3.344E+06	7.680E+05	1.961E+06	4.925E+05	1.296E+06
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	4.349E+13	4.352E+13	2.143E+13	2.145E+13	9.616E+12	9.624E+12	5.459E+12	5.465E+12	2.471E+12	2.474E+12	1.415E+12	1.417E+12
2	2.719E+12	2.721E+12	1.340E+12	1.341E+12	6.011E+11	6.019E+11	3.413E+11	3.418E+11	1.545E+11	1.548E+11	8.844E+10	8.846E+10
3	5.371E+11	5.378E+11	2.647E+11	2.651E+11	1.188E+11	1.189E+11	6.743E+10	6.758E+10	3.052E+10	3.059E+10	1.747E+10	1.754E+10
4	1.700E+11	1.702E+11	8.378E+10	8.393E+10	3.759E+10	3.767E+10	2.134E+10	2.140E+10	9.660E+09	9.693E+09	5.531E+09	5.554E+09
6	3.362E+10	3.368E+10	1.657E+10	1.660E+10	7.433E+09	7.456E+09	4.220E+09	4.232E+09	1.910E+09	1.922E+09	1.094E+09	1.101E+09
8	1.065E+10	1.067E+10	5.249E+09	5.267E+09	2.355E+09	2.361E+09	1.357E+09	1.344E+09	6.052E+08	6.096E+08	3.465E+08	3.486E+08
10	4.371E+09	4.379E+09	2.154E+09	2.162E+09	9.664E+08	9.700E+08	5.487E+08	5.530E+08	2.483E+08	2.499E+08	1.422E+08	1.431E+08
15	8.689E+08	8.724E+08	4.282E+08	4.294E+08	1.921E+08	1.940E+08	1.091E+08	1.097E+08	4.937E+07	4.969E+07	2.827E+07	2.876E+07
20	2.774E+08	2.777E+08	1.367E+08	1.381E+08	6.133E+07	6.140E+07	3.482E+07	3.490E+07	1.576E+07	1.608E+07	9.023E+06	9.338E+06
30	5.620E+07	5.688E+07	2.770E+07	2.765E+07	1.243E+07	1.252E+07	7.056E+06	7.267E+06	3.193E+06	3.339E+06	1.828E+06	1.896E+06
45	1.176E+07	1.168E+07	5.795E+06	5.943E+06	2.600E+06	2.728E+06	1.476E+06	1.531E+06	6.682E+05	6.656E+05	3.826E+05	3.719E+05
60	4.035E+06	4.235E+06	1.989E+06	2.089E+06	8.922E+05	8.940E+05	5.066E+05	4.877E+05	2.293E+05	2.153E+05	1.313E+05	1.257E+05
75	1.636E+06	1.902E+06	9.050E+05	8.750E+05	4.060E+05	3.698E+05	2.305E+05	2.092E+05	1.043E+05	1.008E+05	5.974E+04	6.282E+04
90	1.009E+06	8.942E+05	4.972E+05	4.226E+05	2.231E+05	1.968E+05	1.266E+05	1.206E+05	5.732E+04	6.351E+04	3.282E+04	4.104E+04
120	4.484E+05	4.462E+05	2.210E+05	2.566E+05	9.914E+04	1.366E+05	5.628E+04	8.678E+04	2.548E+04	4.525E+04	1.469E+04	2.825E+04
150	2.897E+05	6.060E+05	1.428E+05	3.227E+05	6.406E+04	1.566E+05	3.637E+04	4.325E+04	1.546E+04	4.451E+04	9.425E+03	2.613E+04
179	2.522E+05	6.944E+05	1.243E+05	3.578E+05	5.577E+04	1.678E+05	3.117E+04	9.768E+04	1.433E+04	4.521E+04	8.206E+03	2.597E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	9.212E+11	9.226E+11	4.858E+11	4.868E+11	2.494E+11	2.501E+11	1.189E+11	1.193E+11	7.117E+10	7.144E+10	3.516E+10	3.533E+10
2	5.758E+10	5.776E+10	3.037E+10	3.049E+10	1.559E+10	1.566E+10	7.431E+09	7.476E+09	4.449E+09	4.482E+09	2.198E+09	2.219E+09
3	1.138E+10	1.143E+10	6.000E+09	6.031E+09	3.080E+09	3.099E+09	1.468E+09	1.482E+09	8.790E+08	8.891E+08	4.343E+08	4.407E+08
4	3.601E+09	3.621E+09	1.899E+09	1.911E+09	9.749E+08	9.830E+08	4.647E+08	4.707E+08	2.782E+08	2.827E+08	1.375E+08	1.402E+08
6	7.121E+08	7.165E+08	3.755E+08	3.788E+08	1.928E+08	1.955E+08	9.189E+07	9.382E+07	5.501E+07	5.636E+07	2.718E+07	2.794E+07
8	2.256E+08	2.273E+08	1.190E+08	1.206E+08	6.108E+07	6.241E+07	2.912E+07	2.994E+07	1.743E+07	1.797E+07	8.612E+06	8.903E+06
10	9.258E+07	9.358E+07	4.883E+07	4.982E+07	2.506E+07	2.578E+07	1.195E+07	1.234E+07	7.153E+06	7.399E+06	3.534E+06	3.665E+06
15	1.840E+07	1.890E+07	9.706E+06	1.005E+07	4.982E+06	5.165E+06	2.375E+06	2.455E+06	1.422E+06	1.470E+06	7.025E+05	7.299E+05
20	5.875E+06	6.112E+06	3.099E+06	3.216E+06	1.591E+06	1.637E+06	7.582E+05	7.768E+05	4.539E+05	4.668E+05	2.243E+05	2.339E+05
30	1.191E+06	1.219E+06	6.278E+05	6.313E+05	3.223E+05	3.222E+05	1.536E+05	1.565E+05	9.198E+04	9.621E+04	4.544E+04	4.983E+04
45	2.491E+05	2.405E+05	1.314E+05	1.290E+05	6.743E+04	6.982E+04	3.215E+04	3.638E+04	1.924E+04	2.337E+04	9.508E+03	1.269E+04
60	8.547E+04	8.503E+04	4.508E+04	4.891E+04	2.314E+04	2.817E+04	1.103E+04	1.540E+04	6.604E+03	1.010E+04	3.263E+03	5.583E+03
75	3.890E+04	4.430E+04	2.051E+04	2.664E+04	1.053E+04	1.573E+04	5.020E+03	6.72E+03	3.007E+03	5.680E+03	1.485E+03	3.116E+03
90	2.137E+04	2.937E+04	1.127E+04	1.776E+04	5.785E+03	1.039E+04	2.758E+03	5.617E+03	1.65E+03	3.619E+03	8.147E+02	1.941E+03
120	9.497E+03	1.950E+04	5.009E+03	1.106E+04	2.571E+03	6.003E+03	1.226E+03	2.966E+03	7.337E+02	1.790E+03	3.255E+02	8.764E+02
150	6.137E+03	1.719E+04	3.236E+03	9.051E+03	1.661E+03	4.513E+03	7.920E+02	1.999E+03	4.741E+02	1.104E+03	2.343E+02	4.677E+02
179	5.343E+03	1.679E+04	2.818E+03	8.595E+03	1.446E+03	4.139E+03	6.895E+02	1.744E+03	4.128E+02	9.198E+02	2.040E+02	3.563E+02

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	2.157E+10	2.169E+10	1.484E+10	1.493E+10	8.488E+09	8.549E+09	4.696E+09	4.730E+09	2.376E+09	2.394E+09	1.451E+09	1.463E+09
2	1.348E+09	1.363E+09	9.278E+08	9.388E+08	5.306E+08	5.375E+08	2.935E+08	2.977E+08	1.485E+08	1.507E+08	9.073F+07	9.210E+07
3	2.664E+08	2.708E+08	1.833E+08	1.866E+08	1.048E+08	1.069E+08	5.800E+07	5.919E+07	2.935E+07	2.998E+07	1.793E+07	1.832E+07
4	8.433E+07	8.617E+07	5.802E+07	5.937E+07	3.318E+07	3.401E+07	1.836E+07	1.884E+07	9.290E+06	9.545E+06	5.674F+06	5.833E+06
6	1.667E+07	1.718E+07	1.147E+07	1.184E+07	6.561E+06	6.784E+06	3.630E+06	3.760E+06	1.837E+06	1.906E+06	1.122E+06	1.165E+06
8	5.283E+06	5.473E+06	3.635E+06	3.773E+06	2.079E+06	2.164E+06	1.150E+06	1.200E+06	5.820E+05	6.086E+05	3.555F+05	3.721E+05
10	2.168E+06	2.254E+06	1.492E+06	1.555E+06	8.530E+05	8.924E+05	4.720E+05	4.955E+05	2.388E+05	2.515E+05	1.459F+05	1.538E+05
15	4.310E+05	4.506E+05	2.965E+05	3.117E+05	1.696E+05	1.798E+05	9.382E+04	1.002E+05	4.748E+04	5.102E+04	2.900E+04	3.126E+04
20	1.376E+05	1.455E+05	9.466E+04	1.012E+05	5.413E+04	5.876E+04	2.995E+04	3.294E+04	1.516E+04	1.684E+04	9.257E+03	1.034E+04
30	2.788E+04	3.163E+04	1.918E+04	2.230E+04	1.097E+04	1.316E+04	6.069E+03	7.464E+03	3.071E+03	3.850E+03	1.876E+03	2.372E+03
45	5.833E+03	8.255E+03	4.013E+03	5.904E+03	2.295E+03	3.539E+03	1.270E+03	2.029E+03	6.426E+02	1.054E+03	3.925E+02	6.517E+02
60	2.002E+03	3.654E+03	1.377E+03	2.621E+03	7.875E+02	1.575E+03	4.357E+02	9.038E+02	2.205E+02	4.697E+02	1.347E+02	2.903E+02
75	9.109E+02	2.027E+03	6.267E+02	1.447E+03	3.584E+02	8.639E+02	1.983E+02	4.933E+02	1.003E+02	2.554E+02	6.129E+01	1.576E+02
90	5.004E+02	1.244E+03	3.443E+02	8.787E+02	1.969E+02	5.179E+02	1.089E+02	2.927E+02	5.912E+01	1.504F+02	3.367F+01	9.244E+01
120	2.224E+02	5.285E+02	1.530E+02	3.576E+02	8.750E+01	1.901E+02	4.841E+01	1.074E+02	2.450E+01	5.312E+01	1.494F+01	3.209E+01
150	1.437E+02	2.511E+02	9.887E+01	1.543E+02	5.654E+01	7.402E+01	3.128E+01	3.433E+01	1.583E+01	1.471E+01	9.669F+00	8.219E+00
179	1.251E+02	1.750E+02	8.609E+01	9.833E+01	4.923E+01	3.945E+01	2.724E+01	1.409E+01	1.378E+01	4.040E+00	8.419E+00	1.587E+00
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	7.120E+08	7.176E+08	4.241E+08	4.274E+08	2.817E+08	2.839E+08	1.504E+08	1.516E+08	7.648E+07	7.708F+07	3.503F+07	3.531E+07
2	4.451E+07	4.519E+07	2.551E+07	2.692E+07	1.761E+07	1.788E+07	9.404E+06	9.551E+06	4.780E+06	4.855E+06	2.190F+06	2.274E+06
3	8.794E+06	8.990E+06	5.237E+06	5.355E+06	3.479E+06	3.567E+06	1.888E+06	1.900E+06	9.445E+05	9.659E+05	4.326F+05	4.428E+05
4	2.783E+06	2.853E+06	1.658E+06	1.705E+06	1.101E+06	1.133E+06	5.881E+05	6.051E+05	2.990E+05	3.076E+05	1.369E+05	1.409E+05
6	5.504E+05	5.718E+05	3.272E+05	3.406E+05	2.178E+05	2.243E+05	1.163E+05	1.209E+05	5.911E+04	6.145E+04	2.708F+04	2.815E+04
8	1.744E+05	1.827E+05	1.039E+05	1.089E+05	6.930E+04	7.233E+04	3.685E+04	3.863E+04	1.873E+04	1.964E+04	8.579E+03	8.996E+03
10	7.156E+04	7.555E+04	4.262E+04	4.502E+04	2.831E+04	2.992E+04	1.512E+04	1.598E+04	7.686E+03	8.125F+03	3.520F+03	3.722E+03
15	1.423E+04	1.537E+04	8.472E+03	9.165E+03	5.628E+03	6.092E+03	3.006E+03	3.255E+03	1.528E+03	1.655E+03	6.998E+02	7.582E+02
20	4.541E+03	5.092E+03	2.705E+03	3.038E+03	1.797E+03	2.020E+03	9.596E+02	1.080E+03	4.878E+02	5.491F+02	2.234E+02	2.516E+02
30	9.202E+02	1.172E+03	5.480E+02	7.003E+02	3.641E+02	4.669E+02	1.944E+02	2.492E+02	9.883E+01	1.268E+02	4.527E+01	5.809E+01
45	1.925E+02	3.229E+02	1.147E+02	1.931E+02	7.617E+01	1.286E+02	4.068E+01	6.879E+01	2.068E+01	3.500E+01	9.472F+00	1.604E+01
60	6.607E+01	1.439E+02	3.935E+01	8.604E+01	2.614E+01	5.737E+01	1.396E+01	3.065E+01	7.096E+00	1.560F+01	3.250F+00	7.148E+00
75	3.007E+01	7.796E+01	1.791E+01	4.659E+01	1.190E+01	3.100E+01	6.353E+00	1.658E+01	3.229E+00	8.438F+00	1.479F+00	3.867E+00
90	1.652E+01	4.560E+01	9.837E+00	2.722E+01	6.535E+00	1.810E+01	3.490E+00	9.676E+00	1.774E+00	4.921E+00	8.125F+00	2.255E+00
120	7.341E+00	1.558E+01	4.372E+00	9.242E+00	2.904E+00	6.126E+00	1.551E+00	3.265E+00	7.884E+00	1.658E+00	3.611F+00	7.588E+00
150	4.743E+00	3.703E+00	2.825E+00	2.124E+00	1.877E+00	1.384E+00	1.002E+00	7.254E+00	5.095E+00	3.648E+00	2.334E+00	1.661E+00
179	4.130E+00	4.004E+00	2.460E+00	1.454E+00	1.634E+00	6.517E+00	8.726E+00	1.909E+00	4.436E+00	5.144E+00	2.032E+00	1.177E+00
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	2.001E+07	2.017E+07	9.038E+06	9.110E+06	5.126E+06	5.164E+06	3.297E+06	3.323E+06	1.692E+06	1.705E+06	8.324F+05	8.390E+05
2	1.251E+06	1.271E+06	5.650E+05	5.738E+05	3.204E+05	3.264E+05	2.061E+05	2.093E+05	1.057E+05	1.074E+05	5.203F+04	5.285E+04
3	4.772E+05	5.288E+05	1.116E+05	1.142E+05	6.330E+04	6.474E+04	4.072E+04	4.164E+04	2.089E+04	2.136F+04	1.028E+04	1.051E+04
4	7.824E+04	8.050E+04	3.533E+04	3.635E+04	2.004E+04	2.062E+04	1.289E+04	1.326E+04	6.613E+03	6.804E+03	3.254E+03	3.348E+03
6	1.547E+04	1.608E+04	6.986E+03	7.263E+03	3.962E+03	4.119E+03	2.584E+03	2.649E+03	1.308E+03	1.359F+03	6.435F+02	6.689E+02
8	4.902E+03	5.140E+03	2.214E+03	2.321E+03	1.255E+03	1.316E+03	8.074E+02	8.467E+02	4.143E+02	4.345E+02	2.039E+02	2.138E+02
10	2.011E+03	2.126E+03	9.084E+02	9.604E+02	5.151E+02	5.446E+02	3.313E+02	3.503E+02	1.700E+02	1.797E+02	8.366F+01	8.845E+01
15	3.998E+02	4.332E+02	1.806E+02	1.957E+02	1.024E+02	1.110E+02	6.588E+01	7.137E+01	3.380E+01	3.662F+01	1.663F+01	1.802E+01
20	1.276E+02	1.437E+02	5.765E+01	6.492E+01	3.269E+01	3.682E+01	2.103E+01	2.368E+01	1.079F+01	1.215E+01	5.309F+00	5.980E+00
30	2.586E+01	3.320E+01	1.168E+01	1.499E+01	6.624E+00	8.504E+00	4.260E+00	5.469E+00	2.186E+00	2.806E+00	1.076E+00	1.381E+00
45	5.412E+00	9.168E+00	2.444E+00	4.141E+00	1.386E+00	2.349E+00	8.914E+00	1.511E+00	4.574E+00	7.751F+00	2.251F+00	3.815E+00
60	1.857E+00	4.085E+00	8.386E+00	1.845E+00	4.756E+00	1.845E+00	3.059E+00	1.670E+00	1.570E+00	3.453E+00	7.724F+00	1.699E+00
75	8.451E+00	2.219E+00	3.816E+00	9.981E+00	2.164E+00	5.641E+00	1.392E+00	3.641E+00	7.143E+00	1.868F+00	3.515F+00	9.194E+00
90	4.642E+00	1.288E+00	2.097E+00	5.819E+00	1.189E+00	3.300E+00	7.647E+00	2.123E+00	3.924E+00	1.089E+00	1.931F+00	5.360E+00
120	2.063E+00	4.334E+00	9.318E+00	1.957E+00	5.284E+00	1.110E+00	3.394E+00	7.137E+00	1.744E+00	3.662F+00	8.582F+00	1.802E+00
150	1.333E+00	9.466E+00	6.021E+00	4.268E+00	3.415E+00	2.419E+00	2.196E+00	1.555F+00	1.127E+00	7.979F+00	5.545F+00	3.926E+00
179	1.161E+00	4.276E+00	5.242E+00	1.122E+00	2.973E+00	4.722E+00	1.912E+00	2.544E+00	9.811F+00	1.084F+00	4.824F+00	4.748E+00

CF (98)

(BARN/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	2.150E+15	2.155E+15	9.565E+14	9.570E+14	5.388E+14	5.389E+14	2.398E+14	2.400E+14	1.352E+14	1.353E+14	8.667E+13	8.674E+13
2	1.344E+14	1.345E+14	5.979E+13	5.983E+13	3.367E+13	3.369E+13	1.499E+13	1.500E+13	8.449E+12	8.455E+12	5.418E+12	5.422E+12
3	2.655E+13	2.657E+13	1.181E+13	1.182E+13	6.652E+12	6.656E+12	2.962E+12	2.964E+12	1.669E+12	1.671E+12	1.070E+12	1.072E+12
4	8.405E+12	8.411E+12	3.739E+12	3.742E+12	2.105E+12	2.107E+12	9.375E+11	9.384E+11	5.284E+11	5.289E+11	3.388E+11	3.392E+11
6	1.662E+12	1.663E+12	7.394E+11	7.400E+11	4.163E+11	4.166E+11	1.854E+11	1.856E+11	1.045E+11	1.046E+11	6.700E+10	6.709E+10
8	5.266E+11	5.270E+11	2.343E+11	2.345E+11	1.319E+11	1.321E+11	5.874E+10	5.880E+10	3.310E+10	3.316E+10	2.123E+10	2.126E+10
10	2.161E+11	2.163E+11	9.613E+10	9.622E+10	5.413E+10	5.418E+10	2.410E+10	2.414E+10	1.358E+10	1.360E+10	8.711E+09	8.733E+09
15	4.296E+10	4.298E+10	1.911E+10	1.914E+10	1.076E+10	1.077E+10	4.792E+09	4.798E+09	2.700E+09	2.706E+09	1.732E+09	1.734E+09
20	1.371E+10	1.372E+10	6.101E+09	6.108E+09	3.435E+09	3.437E+09	1.530E+09	1.533E+09	8.621E+08	8.645E+08	5.528E+08	5.557E+08
30	2.779E+09	2.787E+09	1.236E+09	1.240E+09	6.960E+08	6.967E+08	3.099E+08	3.119E+08	1.747E+08	1.744E+08	1.120E+08	1.124E+08
45	5.814E+08	5.808E+08	2.586E+08	2.610E+08	1.456E+08	1.451E+08	6.485E+07	6.552E+07	3.655E+07	3.704E+07	2.344E+07	2.338E+07
60	1.995E+08	1.993E+08	8.875E+07	8.901E+07	4.997E+07	5.119E+07	2.225E+07	2.189E+07	1.254E+07	1.228E+07	8.042E+06	8.077E+06
75	9.079E+07	9.422E+07	4.039E+07	3.961E+07	2.274E+07	2.173E+07	1.013E+07	1.032E+07	5.707E+06	6.097E+06	3.660E+06	3.966E+06
90	4.987E+07	4.656E+07	2.219E+07	2.267E+07	1.249E+07	1.362E+07	5.563E+06	6.077E+06	3.135E+06	3.239E+06	2.011E+06	1.956E+06
120	2.217E+07	1.995E+07	9.861E+06	7.661E+06	5.552E+06	4.065E+06	2.473E+06	1.826E+06	1.393E+06	1.100E+06	8.936E+05	7.612E+05
150	1.432E+07	1.771E+07	6.372E+06	8.894E+06	3.588E+06	5.442E+06	1.598E+06	2.711E+06	9.004E+05	1.649E+06	5.774E+05	1.119E+06
179	1.247E+07	2.659E+07	5.548E+06	1.249E+07	3.124E+06	7.316E+06	1.391E+06	3.449E+06	7.840E+05	2.024E+06	5.027E+05	1.339E+06
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	4.439E+13	4.442E+13	2.188E+13	2.189E+13	9.815E+12	9.823E+12	5.573E+12	5.579E+12	2.522E+12	2.525E+12	1.444E+12	1.446E+12
2	2.775E+12	2.777E+12	1.367E+12	1.369E+12	6.135E+11	6.144E+11	3.483E+11	3.489E+11	1.577E+11	1.580E+11	9.027E+10	9.048E+10
3	5.483E+11	5.489E+11	2.702E+11	2.706E+11	1.212E+11	1.214E+11	6.893E+10	6.898E+10	3.115E+10	3.123E+10	1.784E+10	1.790E+10
4	1.735E+11	1.737E+11	8.552E+10	8.567E+10	3.877E+10	3.845E+10	2.178E+10	2.184E+10	9.860E+09	9.893E+09	5.645E+09	5.674E+09
6	3.431E+10	3.438E+10	1.691E+10	1.694E+10	7.587E+09	7.611E+09	4.307E+09	4.320E+09	1.950E+09	1.962E+09	1.116E+09	1.124E+09
8	1.087E+10	1.089E+10	5.358E+09	5.375E+09	2.404E+09	2.410E+09	1.365E+09	1.371E+09	6.177E+08	6.224E+08	3.537E+08	3.559E+08
10	4.461E+09	4.469E+09	2.199E+09	2.207E+09	9.865E+08	9.893E+08	5.601E+08	5.645E+08	2.535E+08	2.552E+08	1.451E+08	1.461E+08
15	8.869E+08	8.908E+08	4.371E+08	4.381E+08	1.961E+08	1.981E+08	1.113E+08	1.121E+08	5.039E+07	5.069E+07	2.885E+07	2.933E+07
20	2.831E+08	2.833E+08	1.395E+08	1.410E+08	6.260E+07	6.293E+07	3.554E+07	3.560E+07	1.609E+07	1.639E+07	9.211E+06	9.530E+06
30	5.737E+07	5.811E+07	2.827E+07	2.825E+07	1.268E+07	1.276E+07	7.202E+06	7.408E+06	3.260E+06	3.413E+06	1.866E+06	1.942E+06
45	1.200E+07	1.190E+07	5.915E+06	6.052E+06	2.654E+06	2.789E+06	1.507E+06	1.568E+06	6.820E+05	6.820E+05	3.905E+05	3.802E+05
60	4.119E+06	4.319E+06	2.030E+06	2.141E+06	9.107E+05	9.176E+05	5.171E+05	4.996E+05	2.340E+05	2.193E+05	1.340E+05	1.275E+05
75	1.874E+06	1.955E+06	9.238E+05	8.991E+05	4.145E+05	3.778E+05	2.353E+05	2.127E+05	1.065E+05	1.019E+05	6.098E+04	6.338E+04
90	1.030E+06	9.176E+05	5.075E+05	4.303E+05	2.277E+05	1.988E+05	1.293E+05	1.215E+05	5.851E+04	6.402E+04	3.350E+04	4.147E+04
120	4.577E+05	4.477E+05	2.255E+05	2.584E+05	1.012E+05	1.382E+05	5.745E+04	8.813E+04	2.600E+04	4.619E+04	1.489E+04	2.894E+04
150	2.957E+05	6.215E+05	1.457E+05	3.317E+05	6.539E+04	1.614E+05	3.712E+04	9.627E+04	1.680E+04	4.607E+04	9.620E+03	2.709E+04
179	2.575E+05	7.180E+05	1.269E+05	3.704E+05	5.693E+04	1.740E+05	3.232E+04	1.014E+05	1.463E+04	4.702E+04	8.376E+03	2.704E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	9.403E+11	9.417E+11	4.959E+11	4.969E+11	2.545E+11	2.553E+11	1.213E+11	1.218E+11	7.264E+10	7.293E+10	3.589E+10	3.606E+10
2	5.878E+10	5.895E+10	3.100E+10	3.112E+10	1.591E+10	1.598E+10	7.585E+09	7.631E+09	4.541E+09	4.574E+09	2.244E+09	2.265E+09
3	1.161E+10	1.167E+10	6.124E+09	6.156E+09	3.144E+09	3.143E+09	1.499E+09	1.512E+09	8.972E+08	9.074E+08	4.433E+08	4.498E+08
4	3.676E+09	3.696E+09	1.938E+09	1.950E+09	9.951E+08	1.003E+09	4.744E+08	4.804E+08	2.840E+08	2.885E+08	1.403E+08	1.431E+08
6	7.268E+08	7.314E+08	3.833E+08	3.865E+08	1.968E+08	1.995E+08	9.380E+07	9.576E+07	5.615E+07	5.754E+07	2.774E+07	2.853E+07
8	2.303E+08	2.319E+08	1.215E+08	1.230E+08	6.234E+07	6.369E+07	2.972E+07	3.057E+07	1.779E+07	1.835E+07	8.791E+06	9.094E+06
10	9.450E+07	9.546E+07	4.984E+07	5.083E+07	2.558E+07	2.632E+07	1.220E+07	1.261E+07	7.301E+06	7.559E+06	3.607E+06	3.744E+06
15	1.879E+07	1.928E+07	9.907E+06	1.027E+07	5.086E+06	5.280E+06	2.424E+06	2.510E+06	1.451E+06	1.502E+06	7.171E+05	7.450E+05
20	5.997E+06	6.245E+06	3.163E+06	3.289E+06	1.623E+06	1.674E+06	7.740E+05	7.936E+05	4.633E+05	4.763E+05	2.289E+05	2.383E+05
30	1.215E+06	1.249E+06	6.409E+05	6.457E+05	3.290E+05	3.287E+05	1.568E+05	1.591E+05	9.388E+04	9.764E+04	4.639E+04	5.049E+04
45	2.543E+05	2.452E+05	1.341E+05	1.310E+05	6.883E+04	7.064E+04	3.281E+04	3.675E+04	1.964E+04	2.361E+04	9.5E+03	1.284E+04
60	8.725E+04	8.600E+04	4.601E+04	4.937E+04	2.352E+04	2.844E+04	1.126E+04	1.559E+04	6.740E+03	1.025E+04	3.330E+03	5.683E+03
75	3.970E+04	4.471E+04	2.094E+04	2.694E+04	1.075E+04	1.596E+04	5.124E+03	8.840E+03	3.067E+03	5.808E+03	1.516E+03	3.199E+03
90	2.181E+04	2.975E+04	1.150E+04	1.806E+04	5.905E+03	1.061E+04	2.815E+03	5.767E+03	1.685E+03	3.728E+03	8.326E+02	2.006E+03
120	9.694E+03	2.003E+04	5.112E+03	1.140E+04	2.625E+03	6.210E+03	1.251E+03	3.080E+03	7.489E+02	1.863E+03	3.700E+02	9.152E+02
150	6.264E+03	1.785E+04	3.303E+03	9.419E+03	1.696E+03	4.706E+03	8.084E+02	2.090E+03	4.839E+02	1.156E+03	2.391E+02	4.908E+02
179	5.454E+03	1.751E+04	2.876E+03	8.974E+03	1.476E+03	4.329E+03	7.038E+02	1.828E+03	4.213E+02	9.651E+02	2.082E+02	3.744E+02

CF (98)

(BARNES/STRAIDIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	2.202E+10	2.214E+10	1.515E+10	1.524E+10	8.664E+09	8.720E+09	4.793E+09	4.827E+09	2.426E+09	2.444E+09	1.482E+09	1.493E+09
2	1.376E+09	1.392E+09	9.470E+08	9.583E+08	5.416E+08	5.467E+08	2.996E+08	3.039E+08	1.516E+08	1.539E+08	9.261E+07	9.401E+07
3	2.719E+08	2.765E+08	1.871E+08	1.905E+08	1.070E+08	1.091E+08	5.920E+07	6.042E+07	2.996E+07	3.061E+07	1.830E+07	1.870E+07
4	8.607E+07	8.797E+07	5.922E+07	6.061E+07	3.387E+07	3.472E+07	1.874E+07	1.924E+07	9.482E+06	9.745E+06	5.792E+06	5.955E+06
6	1.702E+07	1.754E+07	1.171E+07	1.209E+07	6.697E+06	6.827E+06	3.705E+06	3.839E+06	1.875E+06	1.946E+06	1.145E+06	1.189E+06
8	5.393E+06	5.590E+06	3.710E+06	3.853E+06	2.122E+06	2.209E+06	1.174E+06	1.225E+06	5.941E+05	6.213E+05	3.629E+05	3.798E+05
10	2.213E+06	2.302E+06	1.523E+06	1.587E+06	8.707E+05	9.110E+05	4.817E+05	5.057E+05	2.438E+05	2.566E+05	1.449E+05	1.570E+05
15	4.399E+05	4.596E+05	3.027E+05	3.179E+05	1.731E+05	1.822E+05	9.577E+04	1.021E+05	4.846E+04	5.197E+04	2.960E+04	3.183E+04
20	1.404E+05	1.481E+05	9.662E+04	1.029E+05	5.526E+04	5.974E+04	3.057E+04	3.347E+04	1.547E+04	1.711E+04	9.449E+03	1.050E+04
30	2.846E+04	3.203E+04	1.958E+04	2.258E+04	1.120E+04	1.332E+04	6.195E+03	7.559E+03	3.135E+03	3.899E+03	1.915E+03	2.403E+03
45	5.954E+03	8.360E+03	4.096E+03	5.985E+03	2.343E+03	3.591E+03	1.296E+03	2.061E+03	6.559E+02	1.072E+03	4.006E+02	6.626E+02
60	2.043E+03	3.727E+03	1.406E+03	2.677E+03	8.039E+02	1.611E+03	4.448E+02	9.258E+02	2.251E+02	4.816E+02	1.375E+02	2.978E+02
75	9.297E+02	2.085E+03	6.397E+02	1.491E+03	3.658E+02	8.916E+02	2.024E+02	5.099E+02	1.024E+02	2.642E+02	6.250E+01	1.631E+02
90	5.108E+02	1.289E+03	3.514E+02	9.119E+02	2.010E+02	5.384E+02	1.112E+02	3.047E+02	5.627E+01	1.567E+02	3.437E+01	9.637E+01
120	2.270E+02	5.530E+02	1.562E+02	3.747E+02	8.932E+01	2.090E+02	4.942E+01	1.129E+02	2.501E+01	5.590E+01	1.527E+01	3.378E+01
150	1.467E+02	2.639E+02	1.009E+02	1.623E+02	5.771E+01	7.799E+01	3.193E+01	3.622E+01	1.616E+01	1.554E+01	9.870E+00	8.691E+00
179	1.277E+02	1.840E+02	8.787E+01	1.035E+02	5.025E+01	4.164E+01	2.780E+01	1.484E+01	1.407E+01	4.259E+00	8.593E+00	1.673E+00
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	7.168E+08	7.324E+08	4.329E+08	4.362E+08	2.875E+08	2.898E+08	1.536E+08	1.548E+08	7.806E+07	7.869E+07	3.575E+07	3.604E+07
2	4.543E+07	4.613E+07	2.706E+07	2.748E+07	1.797E+07	1.825E+07	9.599E+06	9.750E+06	4.880E+06	4.956E+06	2.235E+06	2.270E+06
3	8.976E+06	9.177E+06	5.346E+06	5.467E+06	3.551E+06	3.632E+06	1.877E+06	1.940E+06	9.641E+05	9.860E+05	4.416E+05	4.516E+05
4	2.841E+06	2.923E+06	1.692E+06	1.741E+06	1.124E+06	1.157E+06	6.003E+05	6.178E+05	3.052E+05	3.140E+05	1.398E+05	1.438E+05
6	5.618E+05	5.838E+05	3.346E+05	3.478E+05	2.223E+05	2.311E+05	1.187E+05	1.234E+05	6.034E+04	6.274E+04	2.764E+04	2.874E+04
8	1.780E+05	1.865E+05	1.060E+05	1.112E+05	7.043E+04	7.383E+04	3.761E+04	3.944E+04	1.912E+04	2.005E+04	8.757E+03	9.183E+03
10	7.304E+04	7.709E+04	4.350E+04	4.593E+04	2.890E+04	3.052E+04	1.543E+04	1.631E+04	7.845E+03	8.289E+03	3.593E+03	3.797E+03
15	1.452E+04	1.565E+04	8.648E+03	9.333E+03	5.745E+03	6.203E+03	3.068E+03	3.315E+03	1.560E+03	1.685E+03	7.143E+02	7.721E+02
20	4.635E+03	5.173E+03	2.761E+03	3.086E+03	1.834E+03	2.052E+03	7.975E+02	1.097E+03	4.979E+02	5.578E+02	2.280E+02	2.556E+02
30	9.393E+02	1.188E+03	5.594E+02	7.095E+02	3.716E+02	4.720E+02	1.985E+02	2.525E+02	1.009E+02	1.284E+02	4.621E+01	5.886E+01
45	1.965E+02	3.284E+02	1.170E+02	1.964E+02	7.775E+01	1.308E+02	4.152E+01	6.998E+01	2.111E+01	3.561E+01	9.668E+00	1.632E+01
60	6.744E+01	1.476E+02	4.016E+01	8.830E+01	2.668E+01	5.379E+01	1.425E+01	3.146E+01	7.243E+00	1.601E+01	3.318E+00	7.337E+00
75	3.069E+01	8.071E+01	1.828E+01	4.824E+01	1.214E+01	3.211E+01	6.485E+00	1.718E+01	3.296E+00	8.739E+00	1.510E+00	4.005E+00
90	1.686E+01	4.755E+01	1.004E+01	2.839E+01	6.670E+00	1.888E+01	3.562E+00	1.009E+01	1.811E+00	5.134E+00	8.294E+00	2.352E+00
120	7.493E+00	1.641E+01	4.463E+00	9.736E+00	2.964E+00	6.454E+00	1.583E+00	3.440E+00	8.048E+01	1.747E+00	3.686E+01	7.995E+01
150	4.842E+00	3.919E+00	2.884E+00	2.249E+00	1.916E+00	1.465E+00	1.023E+00	7.682E+01	5.200E+01	3.863E+01	2.382E+01	1.759E+01
179	4.215E+00	4.222E+01	2.511E+00	1.533E+01	1.668E+00	6.873E+02	8.907E+01	2.013E+02	4.528E+01	5.426E+03	2.074E+01	1.242E+03
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	2.043E+07	2.059E+07	9.226E+06	9.299E+06	5.232E+06	5.273E+06	3.365E+06	3.392E+06	1.727E+06	1.740E+06	8.497E+05	8.564E+05
2	1.277E+06	1.297E+06	5.167E+05	5.858E+05	2.103E+05	3.322E+05	2.103E+05	2.137E+05	1.079E+05	1.096E+05	5.311E+04	5.395E+04
3	2.523E+05	2.580E+05	1.139E+05	1.165E+05	6.462E+04	6.609E+04	4.156E+04	4.251E+04	2.132E+04	2.181E+04	1.049E+04	1.073E+04
4	7.986E+04	8.219E+04	3.606E+04	3.712E+04	2.045E+04	2.105E+04	1.315E+04	1.354E+04	6.750E+03	6.947E+03	3.322E+03	3.418E+03
6	1.579E+04	1.642E+04	7.131E+03	7.415E+03	4.044E+03	4.205E+03	2.601E+03	2.705E+03	1.335E+03	1.388E+03	6.568E+02	6.830E+02
8	5.003E+03	5.247E+03	2.260E+03	2.370E+03	1.281E+03	1.344E+03	8.242E+02	8.634E+02	4.229E+02	4.435E+02	2.081E+02	2.182E+02
10	2.053E+03	2.170E+03	9.272E+02	9.798E+02	5.258E+02	5.557E+02	3.382E+02	3.574E+02	1.735E+02	1.834E+02	8.540E+01	9.024E+01
15	4.081E+02	4.412E+02	1.843E+02	1.992E+02	1.045E+02	1.130E+02	6.723E+01	7.267E+01	3.450E+01	3.729E+01	1.699E+01	1.835E+01
20	1.303E+02	1.460E+02	5.884E+01	6.595E+01	3.337E+01	3.740E+01	2.146E+01	2.406E+01	1.101E+01	1.234E+01	5.419E+00	6.075E+00
30	2.640E+01	3.363E+01	1.192E+01	1.519E+01	6.761E+00	8.615E+00	4.349E+00	5.541E+00	2.231E+00	2.843E+00	1.098E+00	1.399E+00
45	5.524E+00	9.327E+00	2.495E+00	4.213E+00	1.415E+00	2.389E+00	9.099E+01	1.537E+00	4.669E+01	7.886E+01	2.288E+01	3.881E+01
60	1.895E+00	4.193E+00	8.560E+01	1.894E+00	4.854E+01	1.074E+00	3.122E+01	6.909E+01	1.602E+01	3.545E+01	7.945E+01	1.745E+01
75	8.626E+01	2.289E+00	3.896E+01	1.034E+00	2.209E+01	5.863E+01	1.421E+01	3.771E+01	7.291E+02	1.935E+01	3.584E+02	5.522E+02
90	4.739E+01	1.344E+00	2.140E+01	6.071E+01	1.214E+01	3.443E+01	7.806E+02	2.215E+01	4.005E+02	1.136E+01	1.971E+02	5.592E+02
120	2.106E+01	4.567E+01	9.511E+02	2.062E+01	5.394E+02	1.169E+01	3.469E+02	7.521E+02	1.780E+02	3.859E+02	8.760E+03	1.899E+02
150	1.361E+01	1.003E+01	6.146E+02	4.521E+02	3.485E+02	2.562E+02	2.242E+02	1.647E+02	1.150E+02	8.451E+03	5.662E+03	4.158E+03
179	1.185E+01	4.516E+04	5.351E+02	1.186E+04	3.035E+02	4.996E+05	1.952E+02	2.694E+05	1.001E+02	1.148E+05	4.928E+03	5.034E+06

ES (99)

(BARNs/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
206	DEG	1.0E-03MEV	1.5E-03MEV	2.0E-03MEV	3.0E-03MEV	4.0E-03MEV	5.0E-03MEV					
1	2.194E+15	2.163E+15	9.761E+14	9.767E+14	5.496E+14	5.499E+14	2.447E+14	2.449E+14	1.379E+14	1.380E+14	8.845E+13	8.850E+13
2	1.372E+14	1.372E+14	6.102E+13	6.106E+13	3.436E+13	3.438E+13	1.530E+13	1.531E+13	8.622E+12	8.629E+12	5.529E+12	5.533E+12
3	2.710E+13	2.712E+13	1.206E+13	1.206E+13	6.788E+12	6.793E+12	3.023E+12	3.025E+12	1.704E+12	1.705E+12	1.092E+12	1.094E+12
4	8.577E+12	8.583E+12	3.816E+12	3.819E+12	2.149E+12	2.150E+12	9.568E+11	9.576E+11	5.392E+11	5.398E+11	3.454E+11	3.461E+11
6	1.696E+12	1.697E+12	7.545E+11	7.552E+11	4.248E+11	4.252E+11	1.892E+11	1.894E+11	1.066E+11	1.067E+11	6.837E+10	6.848E+10
8	5.374E+11	5.378E+11	2.391E+11	2.393E+11	1.346E+11	1.348E+11	5.994E+10	6.001E+10	3.378E+10	3.384E+10	2.166E+10	2.169E+10
10	2.205E+11	2.207E+11	9.811E+10	9.818E+10	5.524E+10	5.529E+10	2.460E+10	2.463E+10	1.386E+10	1.388E+10	8.890E+09	8.912E+09
15	4.384E+10	4.386E+10	1.950E+10	1.953E+10	1.098E+10	1.099E+10	4.890E+09	4.895E+09	2.756E+09	2.763E+09	1.767E+09	1.769E+09
20	1.399E+10	1.400E+10	6.226E+09	6.231E+09	3.505E+09	3.508E+09	1.561E+09	1.565E+09	8.798E+08	8.818E+08	5.641E+08	5.673E+08
30	2.836E+09	2.843E+09	1.262E+09	1.265E+09	7.103E+08	7.102E+08	3.163E+08	3.184E+08	1.783E+08	1.781E+08	1.143E+08	1.146E+08
45	5.933E+08	5.935E+08	2.639E+08	2.663E+08	1.486E+08	1.483E+08	6.618E+07	6.677E+07	3.730E+07	3.786E+07	2.392E+07	2.391E+07
60	2.036E+08	2.040E+08	9.057E+07	9.054E+07	5.100E+07	5.229E+07	2.271E+07	2.239E+07	1.280E+07	1.250E+07	8.207E+06	8.209E+06
75	9.265E+07	9.15E+07	4.122E+07	4.062E+07	2.321E+07	2.213E+07	1.033E+07	1.047E+07	5.824E+06	6.213E+06	3.735E+06	4.038E+06
90	5.090E+07	4.736E+07	2.264E+07	2.295E+07	1.275E+07	1.387E+07	5.677E+06	6.245E+06	3.200E+06	3.339E+06	2.052E+06	2.016E+06
120	2.262E+07	2.062E+07	1.006E+07	7.857E+06	5.666E+06	4.135E+06	2.523E+06	1.838E+06	1.422E+06	1.103E+06	9.119E+05	7.621E+05
150	1.462E+07	1.792E+07	6.503E+06	9.023E+06	3.661E+06	5.572E+06	1.630E+06	2.764E+06	9.189E+05	1.684E+06	5.892E+05	1.144E+06
179	1.273E+07	2.735E+07	5.662E+06	1.286E+07	3.188E+06	7.536E+06	1.420E+06	3.555E+06	8.000E+05	2.088E+06	5.130E+05	1.382E+06
DEG	7.0E-03MEV	1.0E-02MEV	1.5E-02MEV	2.0E-02MEV	3.0E-02MEV	4.0E-02MEV						
1	4.530E+13	4.534E+13	2.233E+13	2.234E+13	1.002E+13	1.002E+13	5.687E+12	5.693E+12	2.574E+12	2.577E+12	1.474E+12	1.476E+12
2	2.832E+12	2.834E+12	1.396E+12	1.397E+12	6.261E+11	6.270E+11	3.555E+11	3.560E+11	1.609E+11	1.612E+11	9.212E+10	9.233E+10
3	5.595E+11	5.602E+11	2.757E+11	2.761E+11	1.237E+11	1.239E+11	7.024E+10	7.039E+10	3.179E+10	3.187E+10	1.820E+10	1.826E+10
4	1.771E+11	1.773E+11	8.727E+10	8.743E+10	3.916E+10	3.924E+10	2.223E+10	2.229E+10	1.008E+10	1.009E+10	5.761E+09	5.790E+09
6	3.502E+10	3.508E+10	1.726E+10	1.729E+10	7.742E+09	7.768E+09	4.396E+09	4.408E+09	1.990E+09	2.002E+09	1.139E+09	1.147E+09
8	1.110E+10	1.112E+10	5.468E+09	5.485E+09	2.453E+09	2.460E+09	1.393E+09	1.399E+09	6.304E+08	6.354E+08	3.609E+08	3.633E+08
10	4.553E+09	4.560E+09	2.444E+09	2.453E+09	1.007E+09	1.010E+09	5.716E+08	5.760E+08	2.587E+08	2.605E+08	1.481E+08	1.490E+08
15	9.051E+08	9.094E+08	4.460E+08	4.469E+08	2.001E+08	2.022E+08	1.136E+08	1.145E+08	5.143E+07	5.170E+07	2.944E+07	2.990E+07
20	2.889E+08	2.891E+08	1.424E+08	1.438E+08	6.388E+07	6.459E+07	3.627E+07	3.632E+07	1.642E+07	1.670E+07	9.399E+06	9.721E+06
30	5.855E+07	5.934E+07	2.885E+07	2.885E+07	1.294E+07	1.300E+07	7.349E+06	7.547E+06	3.326E+06	3.488E+06	1.905E+06	1.988E+06
45	1.225E+07	1.212E+07	6.037E+06	6.160E+06	2.708E+06	2.850E+06	1.538E+06	1.607E+06	6.960E+05	6.990E+05	3.985E+05	3.887E+05
60	4.203E+06	4.402E+06	2.071E+06	2.192E+06	9.294E+05	9.419E+05	5.277E+05	5.120E+05	2.388E+05	2.234E+05	1.367E+05	1.239E+05
75	1.913E+06	2.010E+06	9.427E+05	9.242E+05	4.230E+05	3.863E+05	2.401E+05	2.162E+05	1.087E+05	1.030E+05	6.223E+04	6.391E+04
90	1.051E+06	9.423E+05	5.179E+05	4.384E+05	2.323E+05	2.009E+05	1.319E+05	1.224E+05	5.971E+04	6.448E+04	3.419E+04	4.186E+04
120	4.670E+05	4.487E+05	2.302E+05	2.598E+05	1.033E+05	1.307E+05	5.863E+04	8.942E+04	2.654E+04	4.711E+04	1.519E+04	2.962E+04
150	3.018E+05	6.369E+05	1.487E+05	3.407E+05	6.673E+04	1.642E+05	3.788E+04	9.933E+04	1.715E+04	4.766E+04	9.618E+03	2.808E+04
179	2.628E+05	7.420E+05	1.295E+05	3.832E+05	5.810E+04	1.803E+05	3.298E+04	1.052E+05	1.493E+04	4.888E+04	8.548E+03	2.815E+04
DEG	5.0E-02MEV	7.0E-02MEV	1.0E-01MEV	1.5E-01MEV	2.0E-01MEV	3.0E-01MEV						
1	9.596E+11	9.612E+11	5.060E+11	5.071E+11	2.598E+11	2.605E+11	1.238E+11	1.243E+11	7.413E+10	7.442E+10	3.663E+10	3.680E+10
2	5.998E+10	6.014E+10	3.163E+10	3.176E+10	1.624E+10	1.631E+10	7.741E+09	7.787E+09	4.634E+09	4.668E+09	2.290E+09	2.312E+09
3	1.185E+10	1.190E+10	6.250E+09	6.283E+09	3.208E+09	3.228E+09	1.529E+09	1.543E+09	9.156E+08	9.261E+08	4.524E+08	4.590E+08
4	3.751E+09	3.773E+09	1.977E+09	1.990E+09	1.015E+09	1.024E+09	4.841E+08	4.901E+08	2.898E+08	2.944E+08	1.432E+08	1.460E+08
6	7.417E+08	7.466E+08	3.911E+08	3.944E+08	2.008E+08	2.036E+08	9.572E+07	9.772E+07	5.730E+07	5.873E+07	2.831E+07	2.913E+07
8	2.350E+08	2.367E+08	1.239E+08	1.255E+08	6.362E+07	6.448E+07	3.033E+07	3.121E+07	1.816E+07	1.874E+07	8.971E+06	9.287E+06
10	9.644E+07	9.737E+07	5.086E+07	5.185E+07	2.611E+07	2.687E+07	1.245E+07	1.288E+07	7.451E+06	7.722E+06	3.681E+06	3.824E+06
15	1.917E+07	1.967E+07	1.011E+07	1.049E+07	5.190E+06	5.366E+06	2.474E+06	2.566E+06	1.481E+06	1.534E+06	7.318E+05	7.605E+05
20	6.120E+06	6.378E+06	3.228E+06	3.364E+06	1.657E+06	1.713E+06	7.698E+05	8.108E+05	4.728E+05	4.868E+05	2.336E+05	2.427E+05
30	1.240E+06	1.279E+06	6.540E+05	6.606E+05	3.357E+05	3.354E+05	1.690E+05	1.618E+05	9.581E+04	9.908E+04	4.734E+04	5.115E+04
45	2.595E+05	2.500E+05	1.368E+05	1.330E+05	7.024E+04	7.145E+04	3.349E+04	3.711E+04	2.005E+04	2.383E+04	9.984E+03	1.298E+04
60	8.904E+04	8.697E+04	4.695E+04	4.981E+04	2.410E+04	2.870E+04	1.149E+04	1.577E+04	6.879E+03	1.039E+04	3.399E+03	5.779E+03
75	4.052E+04	4.508E+04	2.137E+04	2.722E+04	1.097E+04	1.618E+04	5.229E+03	9.003E+03	3.130E+03	5.933E+03	1.567E+03	3.280E+03
90	2.226E+04	3.010E+04	1.174E+04	1.835E+04	6.029E+03	1.084E+04	2.873E+03	5.917E+03	1.720E+03	3.837E+03	8.497E+02	2.073E+03
120	9.893E+03	2.055E+04	5.217E+03	1.174E+04	2.678E+03	6.450E+03	1.277E+03	3.196E+03	7.643E+02	1.939E+03	3.776E+02	9.555E+02
150	8.392E+03	1.853E+04	3.371E+03	9.798E+03	1.731E+03	4.907E+03	8.250E+02	2.184E+03	4.939E+02	1.216E+03	2.440E+02	5.149E+02
179	5.566E+03	1.824E+04	2.935E+03	9.368E+03	1.507E+03	4.527E+03	7.183E+02	1.915E+03	4.300E+02	1.012E+03	2.124E+02	3.934E+02

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	2.247E+10	2.259E+10	1.546E+10	1.555E+10	9.841E+09	8.899E+09	4.892E+09	4.926E+09	2.475E+09	2.494E+09	1.512E+09	1.523E+09
2	1.405E+09	1.420E+09	9.666E+08	9.780E+08	5.527E+08	5.509E+08	3.058E+08	3.101E+08	1.547E+08	1.570E+08	9.451E+07	9.595E+07
3	2.775E+08	2.821E+08	1.909E+08	1.944E+08	1.092E+08	1.113E+08	6.041E+07	6.167E+07	3.057E+07	3.124E+07	1.867E+07	1.909E+07
4	8.788E+07	8.974E+07	6.044E+07	6.186E+07	3.456E+07	3.544E+07	1.912E+07	1.964E+07	9.677E+06	9.947E+06	5.910E+06	6.079E+06
6	1.737E+07	1.791E+07	1.195E+07	1.234E+07	6.834E+06	7.072E+06	3.781E+06	3.920E+06	1.913E+06	1.986E+06	1.169E+06	1.214E+06
8	5.503E+06	5.709E+06	3.787E+06	3.934E+06	2.145E+06	2.266E+06	1.198E+06	1.251E+06	6.063E+05	6.341E+05	3.703E+05	3.877E+05
10	2.258E+06	2.351E+06	1.554E+06	1.621E+06	8.886E+05	9.298E+05	4.916E+05	5.160E+05	2.488E+05	2.618E+05	1.520E+05	1.601E+05
15	4.484E+05	4.688E+05	3.089E+05	3.241E+05	1.766E+05	1.847E+05	9.773E+04	1.040E+05	4.946E+04	5.293E+04	3.021E+04	3.242E+04
20	1.433E+05	1.507E+05	9.861E+04	1.047E+05	5.639E+04	6.073E+04	3.120E+04	3.401E+04	1.579E+04	1.738E+04	9.643E+03	1.067E+04
30	2.804E+04	3.243E+04	1.998E+04	2.288E+04	1.143E+04	1.349E+04	6.322E+03	7.551E+03	3.199E+03	3.947E+03	1.954E+03	2.432E+03
45	6.076E+03	8.458E+03	4.181E+03	6.060E+03	2.391E+03	3.640E+03	1.323E+03	2.092E+03	6.693E+02	1.088E+03	4.088E+02	6.730E+02
60	2.085E+03	3.798E+03	1.435E+03	2.732E+03	8.204E+02	1.647E+03	4.539E+02	9.476E+02	2.297E+02	4.935E+02	1.403E+02	3.053E+02
75	4.488E+02	2.144E+03	6.528E+02	1.535E+03	3.733E+02	9.196E+02	2.966E+02	5.266E+02	1.045E+02	2.732E+02	6.384E+01	1.667E+02
90	9.212E+02	1.335E+03	3.586E+02	9.459E+02	2.951E+02	5.959E+02	1.135E+02	3.171E+02	5.742E+01	1.632E+02	3.507E+01	1.004E+02
120	2.317E+02	5.785E+02	1.594E+02	3.926E+02	9.115E+01	2.193E+02	5.043E+01	1.186E+02	2.552E+01	5.881E+01	1.559E+01	3.556E+01
150	1.497E+02	2.772E+02	1.030E+02	1.707E+02	5.890E+01	8.216E+01	3.259E+01	1.562E+01	1.649E+01	1.642E+01	1.007E+01	9.189E+00
179	1.303E+02	1.935E+02	8.967E+01	1.089E+02	5.128E+01	4.374E+01	2.837E+01	1.563E+01	1.436E+01	4.488E+00	8.769E+00	1.764E+00
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	7.417E+08	7.474E+08	4.417E+08	4.452E+08	2.934E+08	2.967E+08	1.567E+08	1.580E+08	7.966E+07	8.029E+07	3.649E+07	3.678E+07
2	4.638E+07	4.708E+07	2.761E+07	2.804E+07	1.834E+07	1.843E+07	9.796E+06	9.950E+06	4.980E+06	5.049E+06	2.281E+06	2.317E+06
3	9.168E+06	9.388E+06	5.456E+06	5.580E+06	3.624E+06	3.707E+06	1.936E+06	1.980E+06	9.839E+05	1.006E+06	4.506E+05	4.610E+05
4	2.699E+06	2.983E+06	1.727E+06	1.777E+06	1.147E+06	1.181E+06	6.126E+05	6.306E+05	3.114E+05	3.206E+05	1.426E+05	1.468E+05
6	5.733E+05	5.959E+05	3.414E+05	3.550E+05	2.268E+05	2.359E+05	1.211E+05	1.260E+05	6.158E+04	6.404E+04	2.820E+04	2.934E+04
8	1.817E+05	1.903E+05	1.082E+05	1.134E+05	7.187E+04	7.545E+04	3.838E+04	4.025E+04	1.951E+04	2.046E+04	8.937E+03	9.372E+03
10	7.454E+04	7.865E+04	4.440E+04	4.686E+04	2.949E+04	3.114E+04	1.575E+04	1.663E+04	8.006E+03	8.457E+03	3.667E+03	3.874E+03
15	1.482E+04	1.594E+04	8.825E+03	9.503E+03	5.863E+03	6.316E+03	3.131E+03	3.375E+03	1.592E+03	1.716E+03	7.290E+02	7.861E+02
20	4.739E+03	5.254E+03	2.817E+03	3.135E+03	1.872E+03	2.084E+03	9.995E+02	1.114E+03	5.081E+02	5.665E+02	2.327E+02	2.595E+02
30	9.585E+02	1.202E+03	5.709E+02	7.183E+02	3.792E+02	4.779E+02	2.025E+02	2.556E+02	1.030E+02	1.300E+02	4.715E+01	5.959E+01
45	2.008E+02	3.337E+02	1.194E+02	1.996E+02	7.935E+01	1.359E+02	4.238E+01	7.112E+01	2.154E+01	3.619E+01	9.866E+00	1.659E+01
60	6.882E+01	1.514E+02	4.094E+01	9.056E+01	2.723E+01	6.029E+01	1.454E+01	3.227E+01	7.392E+00	1.642E+01	3.386E+00	7.526E+00
75	3.132E+01	8.352E+01	1.865E+01	4.993E+01	1.239E+01	3.353E+01	6.618E+00	1.778E+01	3.364E+00	9.046E+00	1.541E+00	4.146E+00
90	1.720E+01	4.958E+01	1.025E+01	2.960E+01	6.807E+00	1.949E+01	3.635E+00	1.053E+01	1.848E+00	5.355E+00	8.464E+00	2.453E+00
120	7.647E+00	1.728E+01	4.554E+00	1.025E+01	3.025E+00	8.709E+00	1.616E+00	3.624E+00	8.213E+01	1.840E+00	3.762E+01	8.624E+00
150	4.941E+00	4.147E+00	2.943E+00	2.381E+00	1.955E+00	1.541E+00	1.044E+00	8.135E+01	5.307E+01	4.092E+01	2.431E+01	1.863E+01
179	4.302E+00	4.451E+01	2.562E+00	1.616E+01	1.702E+00	7.247E+02	0.909E+01	7.123E+02	4.620E+01	5.724E+03	2.116E+01	1.311E+03
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	2.045E+07	2.101E+07	9.415E+06	9.484E+06	5.339E+06	5.381E+06	3.434E+06	3.461E+06	1.762E+06	1.776E+06	8.671E+05	8.740E+05
2	1.303E+06	1.324E+06	5.885E+05	5.970E+05	3.337E+05	3.360E+05	2.147E+05	2.180E+05	1.101E+05	1.119E+05	5.420E+04	5.506E+04
3	2.575E+05	2.634E+05	1.163E+05	1.189E+05	6.594E+04	6.745E+04	4.241E+04	4.338E+04	2.176E+04	2.226E+04	1.071E+04	1.096E+04
4	8.150E+04	8.389E+04	3.680E+04	3.789E+04	2.087E+04	2.149E+04	1.342E+04	1.382E+04	6.888E+03	7.091E+03	3.390E+03	3.490E+03
6	1.611E+04	1.674E+04	7.277E+03	7.570E+03	4.127E+03	4.293E+03	2.654E+03	2.761E+03	1.362E+03	1.417E+03	6.703E+02	6.972E+02
8	5.104E+03	5.355E+03	2.306E+03	2.418E+03	1.308E+03	1.371E+03	8.411E+02	8.821E+02	4.316E+02	4.526E+02	2.124E+02	2.227E+02
10	2.095E+03	2.213E+03	9.462E+02	9.996E+02	5.366E+02	5.669E+02	3.451E+02	3.645E+02	1.771E+02	1.871E+02	8.715E+01	9.206E+01
15	4.165E+02	4.492E+02	1.881E+02	2.029E+02	1.067E+02	1.160E+02	6.861E+01	7.399E+01	3.520E+01	3.797E+01	1.732E+01	1.868E+01
20	1.330E+02	1.483E+02	6.805E+01	6.698E+01	3.405E+01	7.799E+01	2.190E+01	2.443E+01	1.124E+01	1.254E+01	5.530E+00	6.169E+00
30	2.694E+01	3.405E+01	1.217E+01	1.538E+01	6.900E+00	8.729E+00	4.438E+00	5.610E+00	2.277E+00	2.879E+00	1.121E+00	1.417E+00
45	5.637E+00	9.480E+00	8.254E+00	4.282E+00	1.444E+00	2.458E+00	9.286E+01	1.562E+00	4.765E+01	8.015E+01	2.385E+01	3.944E+01
60	1.934E+00	4.301E+00	8.736E+01	1.943E+00	4.954E+01	1.182E+00	3.186E+01	7.087E+01	1.635E+01	3.436E+01	8.046E+02	1.790E+01
75	8.803E+01	2.369E+00	3.975E+01	1.070E+00	2.255E+01	6.049E+01	1.450E+01	3.903E+01	7.440E+02	2.003E+01	3.661E+02	9.857E+02
90	4.836E+01	1.402E+00	2.184E+01	6.332E+01	1.239E+01	1.591E+01	7.966E+02	2.310E+01	4.087E+02	1.185E+01	2.011E+02	5.832E+02
120	2.149E+01	4.812E+01	9.708E+02	2.173E+01	5.504E+02	1.232E+01	3.548E+02	7.924E+02	1.817E+02	4.064E+02	9.940E+03	2.001E+02
150	1.389E+01	1.062E+01	6.272E+02	4.788E+02	3.557E+02	2.714E+02	2.288E+02	1.745E+02	1.174E+02	8.952E+03	5.777E+03	4.405E+03
179	1.209E+01	4.788E+04	5.461E+02	1.253E+04	3.097E+02	5.286E+05	1.992E+02	2.852E+05	1.022E+02	1.216E+05	5.029E+03	5.336E+06

FM (1n0 1)

(BARNS/STERADIAN)

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	1.0E-03MEV		1.5E-03MEV		2.0E-03MEV		3.0E-03MEV		4.0E-03MEV		5.0E-03MEV	
1	2.239E+15	2.251E+15	9.960E+14	9.965E+14	5.608E+14	5.611E+14	2.497E+14	2.499E+14	1.407E+14	1.408E+14	9.025E+13	9.031E+13
2	1.399E+14	1.400E+14	6.226E+13	6.230E+13	3.505E+13	3.508E+13	1.561E+13	1.562E+13	8.797E+12	8.804E+12	5.641E+12	5.646E+12
3	2.765E+13	2.767E+13	1.230E+13	1.231E+13	6.926E+12	6.931E+12	3.084E+12	3.087E+12	1.738E+12	1.740E+12	1.115E+12	1.116E+12
4	8.752E+12	8.757E+12	3.893E+12	3.896E+12	2.192E+12	2.194E+12	9.762E+11	9.770E+11	5.502E+11	5.507E+11	3.528E+11	3.531E+11
6	1.730E+12	1.732E+12	7.698E+11	7.705E+11	4.335E+11	4.339E+11	1.930E+11	1.932E+11	1.088E+11	1.089E+11	6.976E+10	6.987E+10
8	5.483E+11	5.488E+11	2.439E+11	2.442E+11	1.373E+11	1.375E+11	6.116E+10	6.123E+10	3.447E+10	3.453E+10	2.210E+10	2.213E+10
10	2.250E+11	2.252E+11	1.001E+11	1.002E+11	5.636E+10	5.640E+10	2.510E+10	2.513E+10	1.414E+10	1.416E+10	9.070E+09	9.092E+09
15	4.473E+10	4.476E+10	1.990E+10	1.992E+10	1.120E+10	1.121E+10	4.989E+09	4.993E+09	2.812E+09	2.820E+09	1.803E+09	1.805E+09
20	1.428E+10	1.429E+10	6.352E+09	6.356E+09	3.577E+09	3.580E+09	1.593E+09	1.597E+09	8.976E+08	8.992E+08	5.756E+08	5.790E+08
30	2.893E+09	2.900E+09	1.287E+09	1.290E+09	7.247E+08	7.251E+08	3.227E+08	3.249E+08	1.819E+08	1.817E+08	1.168E+08	1.168E+08
45	6.054E+08	6.055E+08	2.693E+08	2.716E+08	1.516E+08	1.515E+08	6.752E+07	6.801E+07	3.806E+07	3.868E+07	2.440E+07	2.445E+07
60	2.077E+08	2.088E+08	9.241E+07	9.206E+07	5.203E+07	5.338E+07	2.317E+07	2.291E+07	1.306E+07	1.273E+07	8.374E+06	8.340E+06
75	9.453E+07	9.802E+07	4.206E+07	4.168E+07	2.368E+07	2.255E+07	1.054E+07	1.061E+07	5.943E+06	6.325E+06	3.811E+06	4.129E+06
90	5.193E+07	4.821E+07	2.310E+07	2.322E+07	1.301E+07	1.411E+07	5.793E+06	6.413E+06	3.265E+06	3.442E+06	2.093E+06	2.075E+06
120	2.308E+07	2.132E+07	1.027E+07	8.067E+06	5.781E+06	4.210E+06	2.574E+06	1.851E+06	1.451E+06	1.105E+06	9.304E+05	7.624E+05
150	1.491E+07	1.812E+07	6.635E+06	9.147E+06	3.736E+06	5.619E+06	1.664E+06	2.815E+06	9.376E+05	1.718E+06	6.012E+05	1.169E+06
179	1.298E+07	2.812E+07	5.777E+06	1.323E+07	3.253E+06	7.758E+06	1.448E+06	3.646E+06	8.163E+05	2.153E+06	5.234E+05	1.426E+06
DEG	7.0E-03MEV		1.0E-02MEV		1.5E-02MEV		2.0E-02MEV		3.0E-02MEV		4.0E-02MEV	
1	4.622E+13	4.626E+13	2.278E+13	2.280E+13	1.022E+13	1.023E+13	5.802E+12	5.809E+12	2.626E+12	2.629E+12	1.504E+12	1.506E+12
2	2.889E+12	2.892E+12	1.424E+12	1.425E+12	6.388E+11	6.397E+11	3.627E+11	3.632E+11	1.642E+11	1.645E+11	9.399E+10	9.422E+10
3	5.709E+11	5.715E+11	2.813E+11	2.817E+11	1.262E+11	1.264E+11	7.166E+10	7.182E+10	3.244E+10	3.252E+10	1.857E+10	1.863E+10
4	1.807E+11	1.809E+11	6.905E+10	6.921E+10	3.995E+10	4.003E+10	2.268E+10	2.275E+10	1.027E+10	1.030E+10	5.878E+09	5.907E+09
6	3.573E+10	3.579E+10	1.761E+10	1.764E+10	7.900E+09	7.927E+09	4.485E+09	4.497E+09	2.030E+09	2.042E+09	1.162E+09	1.171E+09
8	1.132E+10	1.135E+10	5.579E+09	5.595E+09	2.503E+09	2.510E+09	1.421E+09	1.427E+09	6.432E+08	6.484E+08	3.683E+08	3.708E+08
10	4.645E+09	4.652E+09	2.289E+09	2.299E+09	1.027E+09	1.030E+09	5.832E+08	5.876E+08	2.639E+08	2.659E+08	1.511E+08	1.521E+08
15	9.235E+08	9.282E+08	4.551E+08	4.559E+08	2.042E+08	2.063E+08	1.159E+08	1.169E+08	5.247E+07	5.272E+07	3.004E+07	3.047E+07
20	2.948E+08	2.949E+08	1.453E+08	1.467E+08	6.518E+07	6.566E+07	3.701E+07	3.705E+07	1.675E+07	1.702E+07	9.590E+06	9.913E+06
30	5.973E+07	6.058E+07	2.944E+07	2.947E+07	1.321E+07	1.324E+07	7.499E+06	7.686E+06	3.394E+06	3.563E+06	1.943E+06	2.034E+06
45	1.250E+07	1.235E+07	6.159E+06	6.268E+06	2.763E+06	2.910E+06	1.569E+06	1.646E+06	7.101E+05	7.165E+05	4.066E+05	3.976E+05
60	4.289E+06	4.483E+06	2.114E+06	2.244E+06	9.483E+05	9.648E+05	5.384E+05	5.248E+05	2.437E+05	2.277E+05	1.395E+05	1.312E+05
75	1.952E+06	2.065E+06	9.618E+05	9.503E+05	4.315E+05	3.951E+05	2.450E+05	2.199E+05	1.109E+05	1.040E+05	6.349E+04	6.442E+04
90	1.072E+06	9.684E+05	5.284E+05	4.471E+05	2.371E+05	2.031E+05	1.346E+05	1.233E+05	6.092E+04	6.490E+04	3.488E+04	4.222E+04
120	4.765E+05	4.492E+05	2.348E+05	2.610E+05	1.054E+05	1.410E+05	5.982E+04	9.063E+04	2.708E+04	4.800E+04	1.550E+04	3.029E+04
150	3.079E+05	6.523E+05	1.517E+05	3.497E+05	6.808E+04	1.710E+05	3.865E+04	1.024E+05	1.750E+04	4.928E+04	1.002E+04	2.909E+04
179	2.681E+05	7.664E+05	1.321E+05	3.964E+05	5.928E+04	1.867E+05	3.365E+04	1.091E+05	1.523E+04	5.078E+04	8.721E+03	2.929E+04
DEG	5.0E-02MEV		7.0E-02MEV		1.0E-01MEV		1.5E-01MEV		2.0E-01MEV		3.0E-01MEV	
1	9.791E+11	9.807E+11	5.163E+11	5.174E+11	2.650E+11	2.658E+11	1.264E+11	1.268E+11	7.564E+10	7.593E+10	3.737E+10	3.755E+10
2	6.120E+10	6.137E+10	3.228E+10	3.240E+10	1.657E+10	1.665E+10	7.898E+09	7.945E+09	4.728E+09	4.763E+09	2.336E+09	2.358E+09
3	1.209E+10	1.215E+10	6.377E+09	6.411E+09	3.273E+09	3.294E+09	1.561E+09	1.574E+09	9.342E+08	9.447E+08	4.616E+08	4.683E+08
4	3.827E+09	3.850E+09	2.018E+09	2.031E+09	1.036E+09	1.044E+09	4.939E+08	5.000E+08	2.957E+08	3.003E+08	1.461E+08	1.490E+08
6	7.568E+08	7.618E+08	3.991E+08	4.023E+08	2.049E+08	2.076E+08	9.767E+07	9.970E+07	5.847E+07	5.993E+07	2.889E+07	2.974E+07
8	2.398E+08	2.415E+08	1.265E+08	1.280E+08	6.491E+07	6.628E+07	3.095E+07	3.185E+07	1.853E+07	1.913E+07	9.153E+06	9.483E+06
10	9.840E+07	9.929E+07	5.189E+07	5.287E+07	2.664E+07	2.741E+07	1.270E+07	1.315E+07	7.602E+06	7.887E+06	3.756E+06	3.905E+06
15	1.956E+07	2.005E+07	1.032E+07	1.070E+07	5.295E+06	5.514E+06	2.524E+06	2.622E+06	1.511E+06	1.568E+06	7.467E+05	7.763E+05
20	6.244E+06	6.511E+06	3.293E+06	3.440E+06	1.690E+06	1.752E+06	8.059E+05	8.284E+05	4.824E+05	4.960E+05	2.384E+05	2.473E+05
30	1.265E+06	1.309E+06	6.673E+05	6.759E+05	3.425E+05	3.423E+05	1.633E+05	1.645E+05	9.775E+04	1.005E+05	4.830E+04	5.180E+04
45	2.647E+05	2.550E+05	1.394E+05	1.350E+05	7.167E+04	7.225E+04	3.417E+04	3.744E+04	2.045E+04	2.404E+04	1.011E+04	1.310E+04
60	9.084E+04	8.794E+04	4.791E+04	5.023E+04	2.459E+04	2.894E+04	1.172E+04	1.593E+04	7.018E+03	1.052E+04	3.408E+03	5.871E+03
75	4.134E+04	4.543E+04	2.180E+04	2.748E+04	1.119E+04	1.619E+04	5.335E+03	9.160E+03	3.194E+03	6.056E+03	1.578E+03	3.362E+03
90	2.271E+04	3.043E+04	1.198E+04	1.863E+04	6.148E+03	1.105E+04	2.931E+03	6.067E+03	1.755E+03	3.947E+03	8.469E+02	2.141E+03
120	1.009E+04	2.108E+04	5.323E+03	1.209E+04	2.732E+03	6.674E+03	1.303E+03	3.316E+03	7.798E+02	2.017E+03	3.353E+02	9.972E+02
150	6.522E+03	1.923E+04	3.440E+03	1.019E+04	1.756E+03	5.114E+03	8.417E+02	2.882E+03	5.039E+02	1.266E+03	2.490E+02	5.401E+02
179	5.679E+03	1.900E+04	2.995E+03	9.775E+03	1.537E+03	4.773E+03	7.328E+02	2.006E+03	4.387E+02	1.062E+03	2.168E+02	4.132E+02

	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT	RUTH	MOTT
DEG	4.0E-01MEV		5.0E-01MEV		7.0E-01MEV		1.0E+00MEV		1.5E+00MEV		2.0E+00MEV	
1	2.293E+10	2.305E+10	1.577E+10	1.587E+10	9.021E+09	9.079E+09	4.991E+09	5.029E+09	2.526E+09	2.544E+09	1.543E+09	1.554E+09
2	1.433E+09	1.449E+09	9.860E+08	9.978E+08	5.639E+08	5.713E+08	3.120E+08	3.164E+08	1.579E+08	1.602E+08	9.643E+07	9.790E+07
3	2.832E+08	2.879E+08	1.948E+08	1.983E+08	1.114E+08	1.136E+08	6.164E+07	6.294E+07	3.119E+07	3.188E+07	1.905E+07	1.948E+07
4	8.962E+07	9.163E+07	6.167E+07	6.313E+07	3.526E+07	3.617E+07	1.951E+07	2.004E+07	9.873E+06	1.015E+07	6.030E+06	6.204E+06
6	1.772E+07	1.828E+07	1.219E+07	1.260E+07	6.973E+06	7.219E+06	3.858E+06	4.001E+06	1.952E+06	2.027E+06	1.192E+06	1.239E+06
8	5.615E+06	5.829E+06	3.863E+06	4.017E+06	2.209E+06	2.303E+06	1.222E+06	1.277E+06	6.186E+05	6.472E+05	3.778E+05	3.957E+05
10	2.304E+06	2.400E+06	1.585E+06	1.655E+06	9.066E+05	9.490E+05	5.016E+05	5.266E+05	2.538E+05	2.671E+05	1.550E+05	1.634E+05
15	4.580E+05	4.783E+05	3.152E+05	3.305E+05	1.802E+05	1.903E+05	9.971E+04	1.059E+05	5.046E+04	5.390E+04	3.082E+04	3.301E+04
20	1.462E+05	1.533E+05	1.006E+05	1.065E+05	5.753E+04	6.172E+04	3.183E+04	3.456E+04	1.611E+04	1.766E+04	9.839E+03	1.083E+04
30	2.963E+04	3.282E+04	2.039E+04	2.312E+04	1.166E+04	1.344E+04	6.450E+03	7.739E+03	3.264E+03	3.993E+03	1.994E+03	2.460E+03
45	6.199E+03	8.548E+03	4.265E+03	6.130E+03	2.439E+03	3.687E+03	1.350E+03	2.120E+03	6.829E+02	1.104E+03	4.171E+02	6.829E+02
60	2.127E+03	3.867E+03	1.464E+03	2.785E+03	8.370E+02	1.682E+03	4.631E+02	9.690E+02	2.343E+02	5.051E+02	1.431E+02	3.126E+02
75	9.681E+02	2.202E+03	6.661E+02	1.579E+03	3.809E+02	9.479E+02	2.107E+02	5.435E+02	1.044E+02	2.822E+02	6.514E+01	1.744E+02
90	5.318E+02	1.382E+03	3.659E+02	9.807E+02	2.093E+02	5.811E+02	1.158E+02	3.298E+02	5.83E+01	1.700E+02	3.578E+01	1.046E+02
120	2.364E+02	6.050E+02	1.626E+02	4.111E+02	9.300E+01	2.301E+02	5.146E+01	1.246E+02	2.604E+01	6.186E+01	1.590E+01	3.742E+01
150	1.527E+02	2.913E+02	1.051E+02	1.796E+02	6.009E+01	8.654E+01	3.325E+01	4.031E+01	1.683E+01	1.734E+01	1.028E+01	9.715E+00
179	1.330E+02	2.035E+02	9.149E+01	1.146E+02	5.232E+01	4.605E+01	2.895E+01	1.647E+01	1.465E+01	4.730E+00	8.947E+00	1.859E+00
DEG	3.0E+00MEV		4.0E+00MEV		5.0E+00MEV		7.0E+00MEV		1.0E+01MEV		1.5E+01MEV	
1	7.567E+08	7.626E+08	4.507E+08	4.542E+08	2.994E+08	3.017E+08	1.599E+08	1.612E+08	8.128E+07	8.192E+07	3.723E+07	3.752E+07
2	4.730E+07	4.804E+07	2.817E+07	2.861E+07	1.872E+07	1.901E+07	9.995E+06	1.015E+07	5.081E+06	5.161E+06	2.327E+06	2.364E+06
3	9.346E+06	9.559E+06	5.566E+06	5.694E+06	3.698E+06	3.783E+06	1.975E+06	2.020E+06	1.004E+06	1.027E+06	4.598E+05	4.704E+05
4	2.958E+06	3.045E+06	1.762E+06	1.814E+06	1.170E+06	1.205E+06	6.251E+05	6.436E+05	3.177E+05	3.272E+05	1.459E+05	1.499E+05
6	5.849E+05	6.083E+05	3.484E+05	3.623E+05	2.314E+05	2.407E+05	1.236E+05	1.286E+05	6.283E+04	6.537E+04	2.878E+04	2.994E+04
8	1.853E+05	1.943E+05	1.104E+05	1.157E+05	7.333E+04	7.689E+04	3.9116E+04	4.107E+04	1.991E+04	2.088E+04	9.118E+03	9.564E+03
10	7.606E+04	8.023E+04	4.530E+04	4.780E+04	3.009E+04	3.176E+04	1.607E+04	1.697E+04	8.169E+03	8.626E+03	3.742E+03	3.951E+03
15	1.512E+04	1.623E+04	9.005E+03	9.675E+03	5.982E+03	6.400E+03	3.195E+03	3.436E+03	1.624E+03	1.747E+03	7.438E+02	8.003E+02
20	4.827E+03	5.335E+03	2.875E+03	3.183E+03	1.910E+03	2.116E+03	1.020E+03	1.131E+03	5.184E+02	5.752E+02	2.374E+02	2.635E+02
30	9.780E+02	1.216E+03	5.825E+02	7.266E+02	3.69E+02	4.835E+02	2.066E+02	2.586E+02	1.050E+02	1.316E+02	4.811E+01	6.029E+01
45	2.046E+02	3.387E+02	1.219E+02	2.026E+02	8.096E+01	1.220E+02	4.324E+01	7.220E+01	2.198E+01	3.675E+01	1.007E+01	1.684E+01
60	7.022E+01	1.551E+02	4.182E+01	9.279E+01	2.778E+01	6.178E+01	1.484E+01	3.307E+01	7.542E+00	1.683E+01	3.454E+00	7.713E+00
75	3.195E+01	8.637E+01	1.903E+01	5.164E+01	1.264E+01	3.417E+01	6.752E+00	1.839E+01	3.432E+00	9.358E+00	1.572E+00	4.289E+00
90	1.755E+01	5.166E+01	1.045E+01	3.085E+01	6.945E+00	2.052E+01	3.709E+00	1.097E+01	1.885E+00	5.582E+00	8.636E+00	2.558E+00
120	7.802E+00	1.820E+01	4.647E+00	1.088E+01	3.087E+00	7.161E+00	1.649E+00	3.817E+00	8.380E+01	1.938E+00	3.838E+01	8.874E+01
150	5.041E+00	4.388E+00	3.002E+00	2.500E+00	1.995E+00	1.643E+00	1.065E+00	8.614E+01	5.415E+01	4.333E+01	2.480E+01	1.973E+01
179	4.389E+00	4.692E+01	2.614E+00	1.704E+01	1.737E+00	7.641E+02	9.274E+01	2.239E+02	4.714E+01	6.037E+03	2.159E+01	1.384E+03
DEG	2.0E+01MEV		3.0E+01MEV		4.0E+01MEV		5.0E+01MEV		7.0E+01MEV		1.0E+02MEV	
1	2.127E+07	2.144E+07	9.606E+06	9.682E+06	5.448E+06	5.491E+06	3.504E+06	3.531E+06	1.798E+06	1.812E+06	8.847E+05	8.917E+05
2	1.330E+06	1.351E+06	6.005E+05	6.100E+05	3.405E+05	3.459E+05	2.190E+05	2.225E+05	1.124E+05	1.147E+05	5.530E+04	5.618E+04
3	2.627E+05	2.688E+05	1.186E+05	1.214E+05	6.728E+04	6.888E+04	4.327E+04	4.428E+04	2.220E+04	2.272E+04	1.093E+04	1.118E+04
4	8.315E+04	8.562E+04	3.755E+04	3.867E+04	2.130E+04	2.193E+04	1.370E+04	1.410E+04	7.028E+03	7.237E+03	3.459E+03	3.561E+03
6	1.644E+04	1.711E+04	7.425E+03	7.726E+03	4.211E+03	4.381E+03	2.708E+03	2.818E+03	1.390E+03	1.446E+03	6.839E+02	7.116E+02
8	5.210E+03	5.465E+03	2.353E+03	2.468E+03	1.334E+03	1.400E+03	8.581E+02	9.022E+02	4.403E+02	4.619E+02	2.167E+02	2.273E+02
10	2.138E+03	2.258E+03	9.654E+02	1.020E+03	5.475E+02	5.782E+02	3.521E+02	3.719E+02	1.807E+02	1.908E+02	8.892E+01	9.391E+01
15	4.250E+02	4.572E+02	1.919E+02	2.065E+02	1.088E+02	1.171E+02	7.000E+01	7.532E+01	3.592E+01	3.865E+01	1.768E+01	1.902E+01
20	1.357E+02	1.506E+02	6.127E+01	6.801E+01	3.474E+01	3.857E+01	2.235E+01	2.481E+01	1.147E+01	1.273E+01	5.643E+00	6.264E+00
30	2.749E+01	3.445E+01	1.241E+01	1.556E+01	7.040E+00	8.825E+00	4.528E+00	5.676E+00	2.323E+00	2.912E+00	1.143E+00	1.433E+00
45	5.752E+00	9.625E+00	2.597E+00	4.348E+00	1.473E+00	2.466E+00	9.474E+01	1.586E+00	4.861E+01	8.139E+01	2.392E+01	4.005E+01
60	1.974E+00	4.408E+00	8.913E+01	1.991E+00	5.055E+01	1.129E+00	3.251E+01	7.263E+01	1.668E+01	3.727E+01	8.209E+01	1.834E+01
75	8.982E+01	2.451E+00	4.056E+01	1.107E+00	2.300E+01	6.279E+01	1.479E+01	4.038E+01	7.591E+02	2.072E+01	3.736E+02	1.020E+01
90	4.934E+01	1.462E+00	2.228E+01	6.602E+01	1.264E+01	3.744E+01	8.127E+02	2.408E+01	4.170E+02	1.236E+01	2.052E+02	6.081E+02
120	2.193E+01	5.069E+01	9.903E+02	2.289E+01	5.616E+02	1.298E+01	3.612E+02	8.348E+02	1.853E+02	4.283E+02	9.121E+03	2.108E+02
150	1.417E+01	1.125E+01	6.399E+02	5.071E+02	3.629E+02	2.874E+02	2.334E+02	1.848E+02	1.198E+02	9.481E+03	5.894E+03	4.665E+03
179	1.234E+01	5.035E+04	5.572E+02	1.325E+04	3.160E+02	5.592E+05	2.032E+02	3.019E+05	1.043E+02	1.289E+05	5.131E+03	5.657E+06

TABLE 11

SHERMAN FUNCTION

DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM

ENERGY (MEV)

H (1)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	6.258E-04	5.607E-04	5.047E-04	4.166E-04	3.319E-04	2.633E-04	1.460E-04	1.689E-11	-1.896E-09	-3.436E-09	-5.852E-09	-7.710E-09
2	1.427E-04	9.572E-05	5.663E-05	7.866E-05	6.124E-05	1.076E-04	1.864E-08	-2.831E-08	-1.106E-08	-5.128E-08	-4.722E-08	-7.931E-08
3	1.136E-04	2.944E-04	1.860E-04	3.437E-04	2.046E-04	6.446E-08	-8.824E-08	-1.178E-07	-3.760E-07	-1.862E-07	-2.340E-07	-2.703E-07
4	-1.289E-04	-4.420E-08	-7.002E-08	-1.124E-07	-3.744E-07	-5.744E-07	-7.983E-07	-9.849E-07	-1.231E-06	-4.427E-06	-5.458E-07	-6.244E-06
6	-1.595E-07	-2.518E-07	-3.278E-07	-4.534E-07	-5.344E-07	-6.460E-07	-7.834E-06	-2.241E-06	-2.764E-06	-3.183E-06	-3.833E-06	-4.326E-06
8	-8.859E-07	-6.816E-07	-8.431E-07	-1.09E-06	-1.324E-06	-1.591E-06	-1.843E-06	-2.241E-06	-2.764E-06	-3.183E-06	-3.833E-06	-4.326E-06
10	-0.038E-06	-1.386E-06	-1.673E-06	-2.147E-06	-2.538E-06	-2.877E-06	-3.566E-06	-4.167E-06	-5.102E-06	-5.819E-06	-7.010E-06	-7.889E-06
15	-3.616E-06	-4.581E-06	-5.381E-06	-6.702E-06	-7.477E-06	-8.749E-06	-1.037E-05	-1.230E-05	-1.499E-05	-1.709E-05	-2.035E-05	-2.282E-05
20	-2.357E-05	-2.858E-05	-3.172E-05	-3.968E-05	-4.642E-05	-5.856E-05	-7.190E-05	-8.596E-05	-1.025E-04	-1.179E-04	-1.419E-04	-1.594E-04
30	-6.081E-05	-7.270E-05	-8.268E-05	-9.923E-05	-1.131E-04	-1.251E-04	-1.548E-04	-1.713E-04	-2.052E-04	-2.324E-04	-2.753E-04	-3.082E-04
40	-1.064E-04	-1.287E-04	-1.454E-04	-1.742E-04	-1.940E-04	-2.108E-04	-2.545E-04	-2.981E-04	-3.577E-04	-4.055E-04	-4.813E-04	-5.403E-04
50	-1.555E-04	-1.851E-04	-2.092E-04	-2.493E-04	-2.870E-04	-3.126E-04	-3.833E-04	-4.264E-04	-5.111E-04	-5.803E-04	-6.911E-04	-7.788E-04
75	-1.952E-04	-2.303E-04	-2.594E-04	-3.091E-04	-3.509E-04	-3.874E-04	-4.503E-04	-5.288E-04	-6.348E-04	-7.222E-04	-8.638E-04	-9.775E-04
120	-2.144E-04	-2.533E-04	-2.843E-04	-3.381E-04	-3.834E-04	-4.233E-04	-5.024E-04	-5.794E-04	-6.983E-04	-7.978E-04	-9.627E-04	-1.095E-03
150	-1.394E-04	-1.643E-04	-1.851E-04	-2.200E-04	-2.445E-04	-2.756E-04	-3.209E-04	-3.742E-04	-4.513E-04	-5.242E-04	-6.371E-04	-7.329E-04
179	-5.639E-06	-6.665E-06	-8.100E-06	-9.940E-06	-1.046E-05	-1.261E-05	-1.422E-05	-1.612E-05	-1.912E-05	-2.011E-05	-2.431E-05	-2.735E-05
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	-3.201E-04	-1.145E-08	-1.764E-08	-1.573E-08	-1.644E-08	-1.695E-08	-1.642E-08	-1.565E-08	-1.388E-08	-1.166E-08	-9.090E-09	-7.391E-09
2	-6.905E-04	-1.035E-07	-1.175E-07	-1.295E-07	-1.342E-07	-1.337E-07	-1.281E-07	-1.210E-07	-1.068E-07	-8.928E-08	-6.917E-08	-5.615E-08
3	-9.92E-07	-3.420E-07	-3.431E-07	-4.177E-07	-4.302E-07	-4.362E-07	-4.068E-07	-3.834E-07	-3.377E-07	-2.818E-07	-2.181E-07	-1.770E-07
4	-6.468E-07	-7.791E-07	-8.72E-07	-9.404E-07	-9.657E-07	-9.54E-07	-9.088E-07	-8.558E-07	-7.502E-07	-6.278E-07	-4.855E-07	-3.934E-06
6	-2.15E-06	-2.416E-06	-2.72E-06	-2.883E-06	-2.947E-06	-2.905E-06	-2.765E-06	-2.601E-06	-2.286E-06	-1.905E-06	-1.472E-06	-1.194E-06
8	-4.713E-06	-5.240E-06	-5.834E-06	-6.276E-06	-6.419E-06	-6.307E-06	-5.994E-06	-5.641E-06	-4.956E-06	-4.128E-06	-3.190E-06	-2.587E-06
10	-5.84E-06	-6.09E-06	-6.105E-06	-6.134E-06	-6.141E-06	-6.140E-06	-5.844E-06	-5.491E-06	-4.653E-06	-3.745E-06	-2.762E-06	-2.473E-06
15	-2.047E-05	-2.766E-05	-3.034E-05	-3.29E-05	-3.324E-05	-3.267E-05	-3.106E-05	-2.921E-05	-2.566E-05	-2.137E-05	-1.652E-05	-1.340E-05
20	-5.123E-05	-5.714E-05	-6.273E-05	-6.729E-05	-6.873E-05	-6.753E-05	-6.424E-05	-6.004E-05	-5.313E-05	-4.429E-05	-3.425E-05	-2.779E-05
30	-1.361E-04	-1.519E-04	-1.667E-04	-1.795E-04	-1.877E-04	-1.812E-04	-1.728E-04	-1.629E-04	-1.436E-04	-1.200E-04	-9.259E-05	-7.547E-05
45	-3.347E-04	-3.745E-04	-4.137E-04	-4.482E-04	-4.644E-04	-4.599E-04	-4.415E-04	-4.181E-04	-3.717E-04	-3.124E-04	-2.431E-04	-1.974E-04
60	-5.883E-04	-6.620E-04	-7.170E-04	-8.078E-04	-8.404E-04	-8.497E-04	-8.253E-04	-7.885E-04	-6.877E-04	-6.003E-04	-4.708E-04	-3.444E-04
75	-9.511E-04	-9.647E-04	-1.045E-03	-1.207E-03	-1.272E-03	-1.313E-03	-1.295E-03	-1.252E-03	-1.142E-03	-9.822E-04	-7.925E-04	-6.394E-04
90	-1.073E-03	-1.226E-03	-1.340E-03	-1.582E-03	-1.694E-03	-1.755E-03	-1.807E-03	-1.775E-03	-1.656E-03	-1.455E-03	-1.175E-03	-9.732E-04
120	-1.218E-03	-1.417E-03	-1.555E-03	-1.957E-03	-2.170E-03	-2.275E-03	-2.343E-03	-2.272E-03	-2.049E-03	-1.749E-03	-1.406E-03	-1.048E-03
150	-1.177E-03	-1.460E-03	-1.555E-03	-1.417E-03	-1.034E-03	-2.009E-03	-2.309E-03	-2.4558E-03	-2.934E-03	-3.270E-03	-3.440E-03	-3.354E-03
179	-3.111E-05	-3.678E-05	-4.758E-05	-5.425E-05	-6.375E-05	-8.095E-05	-9.767E-05	-1.118E-04	-1.405E-04	-1.817E-04	-2.483E-04	-3.134E-04
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	-3.355E-04	-4.101E-04	-3.431E-04	-2.524E-04	-1.804E-04	-1.225E-04	-9.265E-05	-6.229E-05	-4.692E-05	-3.743E-05	-2.646E-05	-1.891E-05
2	-6.063E-04	-3.177E-04	-2.407E-04	-1.917E-04	-1.372E-04	-9.301E-05	-7.036E-05	-4.731E-05	-3.563E-05	-2.858E-05	-2.047E-05	-1.436E-05
3	-1.289E-07	-1.001E-07	-8.210E-07	-6.037E-07	-4.310E-07	-2.929E-07	-2.215E-07	-1.449E-07	-1.122E-07	-8.999E-07	-6.446E-07	-4.522E-07
4	-2.844E-07	-2.227E-07	-1.827E-07	-1.343E-07	-9.611E-08	-6.517E-08	-4.530E-08	-3.314E-08	-2.496E-08	-2.002E-08	-1.434E-08	-1.005E-08
6	-8.634E-07	-6.750E-07	-5.37E-07	-4.071E-07	-2.917E-07	-1.975E-07	-1.494E-07	-1.004E-07	-7.566E-08	-6.068E-08	-4.347E-08	-3.050E-08
8	-1.878E-04	-1.622E-06	-1.194E-06	-8.818E-07	-6.304E-07	-4.278E-07	-3.236E-07	-2.170E-07	-1.639E-07	-1.314E-07	-9.416E-08	-6.603E-08
10	-3.378E-04	-2.62E-06	-2.190E-06	-1.593E-06	-1.140E-06	-7.766E-07	-5.844E-07	-3.929E-07	-2.960E-07	-2.374E-07	-1.781E-07	-1.193E-07
15	-6.86E-06	-7.572E-06	-6.214E-06	-4.567E-06	-3.477E-06	-2.216E-06	-1.676E-06	-1.127E-06	-8.488E-07	-6.807E-07	-4.877E-07	-3.421E-07
20	-2.009E-05	-1.571E-05	-1.249E-05	-9.475E-06	-6.770E-06	-4.597E-06	-3.477E-06	-2.339E-06	-1.761E-06	-1.412E-06	-1.012E-06	-7.098E-07
30	-5.462E-05	-4.271E-05	-3.505E-05	-2.577E-05	-1.844E-05	-1.251E-05	-9.60E-06	-6.360E-06	-4.791E-06	-3.822E-06	-2.753E-06	-1.931E-06
45	-1.436E-04	-1.123E-04	-9.210E-05	-6.780E-05	-4.852E-05	-3.291E-05	-2.484E-05	-1.674E-05	-1.261E-05	-1.011E-05	-7.244E-06	-5.042E-06
60	-2.796E-04	-2.191E-04	-1.400E-04	-1.325E-04	-9.447E-05	-6.435E-05	-4.868E-05	-3.274E-05	-2.466E-05	-1.917E-05	-1.477E-05	-9.940E-06
75	-4.677E-04	-3.673E-04	-3.021E-04	-2.226E-04	-1.544E-04	-1.092E-04	-8.186E-05	-5.503E-05	-4.166E-05	-3.376E-05	-2.383E-05	-1.671E-05
90	-1.164E-04	-5.649E-04	-4.253E-04	-3.434E-04	-2.642E-04	-1.672E-04	-1.180E-04	-8.508E-05	-6.409E-05	-5.141E-05	-3.683E-05	-2.544E-05
120	-2.485E-07	-1.188E-03	-9.860E-04	-7.339E-04	-5.245E-04	-3.507E-04	-2.725E-04	-1.834E-04	-1.382E-04	-1.104E-04	-7.941E-05	-5.572E-05
150	-2.946E-03	-2.748E-03	-2.142E-03	-1.646E-03	-1.247E-03	-8.512E-04	-6.325E-04	-4.408E-04	-3.361E-04	-2.669E-04	-1.914E-04	-1.343E-04
179	-4.19E-01	-5.659E-04	-6.444E-04	-7.410E-04	-1.269E-03	-1.863E-03	-2.437E-03	-3.511E-03	-5.058E-03	-7.074E-03	-1.049E-02	-1.322E-02

ME (2) SCHEMMA FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM ENERGY (MEV)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	2.409E-08	2.745E-08	2.590E-08	2.443E-08	2.307E-08	2.067E-08	1.755E-08	1.359E-08	1.029E-08	5.071E-09	1.002E-09	
2	4.645E-04	8.130E-08	6.827E-08	5.611E-08	4.736E-08	3.670E-08	1.030E-08	-1.658E-08	-3.811E-08	-7.177E-08	-9.619E-08	
3	1.752E-07	1.223E-07	8.075E-08	4.670E-08	1.662E-08	-3.371E-08	-9.495E-08	-1.753E-07	-2.393E-07	-3.390E-07	-4.143E-07	
4	2.409E-07	1.184E-07	2.655E-08	6.646E-08	-1.134E-07	-2.123E-07	-3.550E-07	-5.285E-07	-6.666E-07	-8.811E-07	-1.044E-06	
5	2.450E-07	1.122E-07	-0.051E-07	-6.246E-07	8.163E-07	-1.137E-06	-1.525E-06	-2.035E-06	-2.434E-06	-3.064E-06	-3.539E-06	
6	1.096E-04	-5.048E-07	1.448E-06	1.917E-06	2.319E-06	-2.997E-06	-8.819E-06	-8.894E-06	-5.750E-06	-7.075E-06	-8.079E-06	
10	2.086E-07	-1.005E-06	-3.268E-06	-4.094E-06	-4.813E-06	-6.010E-06	-8.765E-06	-9.387E-06	-1.091E-05	-1.326E-05	-1.505E-05	
15	2.625E-05	-1.457E-05	-2.203E-05	-2.768E-05	-3.294E-05	-4.196E-05	-5.367E-05	-6.899E-05	-8.324E-05	-9.981E-05	-1.150E-04	
20	4.780E-05	-5.853E-05	-6.727E-05	-8.156E-05	-9.373E-05	-1.035E-04	-1.209E-04	-1.421E-04	-1.696E-04	-2.074E-04	-2.479E-04	
30	1.348E-04	-1.594E-04	-1.791E-04	-2.132E-04	-2.411E-04	-2.653E-04	-3.061E-04	-3.576E-04	-4.252E-04	-5.048E-04	-5.948E-04	
45	2.507E-04	-2.917E-04	-3.259E-04	-3.828E-04	-4.301E-04	-4.718E-04	-5.330E-04	-6.010E-04	-6.844E-04	-7.844E-04	-8.944E-04	
75	3.707E-04	-4.276E-04	-4.754E-04	-5.553E-04	-6.251E-04	-6.810E-04	-7.820E-04	-9.076E-04	-1.076E-03	-1.214E-03	-1.411E-03	
90	4.692E-04	-5.385E-04	-5.964E-04	-6.949E-04	-7.774E-04	-8.498E-04	-9.749E-04	-1.131E-03	-1.342E-03	-1.516E-03	-1.798E-03	
120	5.246E-04	-5.982E-04	-6.411E-04	-7.672E-04	-8.570E-04	-9.361E-04	-1.074E-03	-1.247E-03	-1.484E-03	-1.682E-03	-2.012E-03	
150	3.441E-03	-3.920E-04	-4.126E-04	-5.017E-04	-5.901E-04	-6.819E-04	-7.020E-04	-8.163E-04	-9.744E-04	-1.108E-03	-1.335E-03	
179	1.253E-05	-1.408E-05	-1.543E-05	-1.776E-05	-1.940E-05	-2.160E-05	-2.543E-05	-2.961E-05	-3.539E-05	-4.031E-05	-4.869E-05	-5.585E-05
5.0E-02	7.6E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00	
1	2.309E-09	-7.413E-09	-1.269E-08	-1.789E-08	-2.071E-08	-2.268E-08	-2.338E-08	-2.079E-08	-1.742E-08	-1.370E-08	-1.120E-08	
2	1.170E-07	-1.463E-07	-1.795E-07	-2.080E-07	-2.262E-07	-2.196E-07	-2.090E-07	-1.861E-07	-1.565E-07	-1.218E-07	-9.907E-08	
3	4.769E-07	-5.656E-07	-6.542E-07	-7.324E-07	-7.649E-07	-7.685E-07	-7.392E-07	-6.196E-07	-5.189E-07	-4.025E-07	-3.270E-07	
4	1.174E-04	-1.367E-06	-1.554E-06	-1.713E-06	-1.771E-06	-1.697E-06	-1.603E-06	-1.415E-06	-1.183E-06	-9.146E-07	-7.440E-07	
5	4.915E-06	-4.472E-06	-5.001E-06	-5.449E-06	-5.610E-06	-5.533E-06	-5.301E-06	-4.906E-06	-4.400E-06	-3.671E-06	-2.305E-06	
8	8.873E-04	-1.005E-05	-1.110E-05	-1.209E-05	-1.244E-05	-1.160E-05	-1.098E-05	-9.657E-06	-8.050E-06	-6.225E-06	-5.030E-06	
10	1.646E-05	-1.954E-05	-2.051E-05	-2.213E-05	-2.247E-05	-2.124E-05	-1.999E-05	-1.757E-05	-1.464E-05	-1.132E-05	-9.183E-06	
15	8.12E-04	-5.452E-05	-6.006E-05	-6.446E-05	-6.597E-05	-6.472E-05	-6.158E-05	-5.087E-05	-4.238E-05	-3.276E-05	-2.657E-05	
20	1.031E-04	-1.139E-04	-1.251E-04	-1.342E-04	-1.370E-04	-1.346E-04	-1.280E-04	-1.205E-04	-1.059E-04	-8.825E-05	-6.824E-05	
30	2.750E-04	-3.063E-04	-3.361E-04	-3.604E-04	-3.690E-04	-3.635E-04	-3.465E-04	-2.877E-04	-2.402E-04	-1.861E-04	-1.511E-04	
45	4.427E-04	-4.716E-04	-5.048E-04	-5.308E-04	-5.322E-04	-5.267E-04	-4.893E-04	-4.211E-04	-3.649E-04	-2.872E-04	-2.370E-04	
60	1.026E-03	-1.152E-03	-1.250E-03	-1.338E-03	-1.371E-03	-1.346E-03	-1.269E-03	-1.099E-03	-9.242E-04	-7.207E-04	-5.800E-04	
75	1.751E-03	-1.976E-03	-2.144E-03	-2.245E-03	-2.260E-03	-2.256E-03	-2.153E-03	-1.824E-03	-1.520E-03	-1.207E-03	-9.460E-04	
90	2.213E-03	-2.518E-03	-2.734E-03	-2.821E-03	-2.844E-03	-2.835E-03	-2.651E-03	-2.300E-03	-1.974E-03	-1.567E-03	-1.286E-03	
120	2.522E-03	-2.921E-03	-3.194E-03	-3.399E-03	-3.441E-03	-3.428E-03	-3.158E-03	-2.584E-03	-2.130E-03	-1.636E-03	-1.295E-03	
150	1.697E-03	-1.955E-03	-2.137E-03	-2.290E-03	-2.350E-03	-2.304E-03	-2.034E-03	-1.556E-03	-1.172E-03	-8.397E-04	-6.290E-04	
179	6.266E-05	-7.363E-05	-8.444E-05	-1.094E-04	-1.240E-04	-1.355E-04	-1.435E-04	-1.493E-04	-1.535E-04	-1.565E-04	-1.585E-04	
3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02	
1	6.145E-09	-6.363E-09	-5.244E-09	-3.859E-09	-2.741E-09	-1.874E-09	-1.418E-09	-9.535E-10	-7.182E-10	-5.760E-10	-4.127E-10	-2.895E-10
2	1.174E-09	-5.618E-08	-4.411E-08	-3.392E-08	-2.427E-08	-1.646E-08	-1.245E-08	-8.372E-09	-6.306E-09	-5.058E-09	-3.623E-09	-2.542E-09
3	2.367E-07	-1.952E-07	-1.514E-07	-1.117E-07	-7.995E-08	-5.422E-08	-4.101E-08	-2.758E-08	-2.077E-08	-1.666E-08	-1.193E-08	-8.373E-09
4	5.383E-07	-4.210E-07	-3.454E-07	-2.540E-07	-1.817E-07	-1.232E-07	-8.322E-08	-6.268E-08	-4.721E-08	-3.787E-08	-2.713E-08	-1.933E-08
6	1.667E-06	-1.304E-06	-1.069E-06	-7.864E-07	-5.624E-07	-3.815E-07	-2.480E-07	-1.640E-07	-1.062E-07	-6.666E-07	-4.397E-07	-2.890E-07
8	3.522E-06	-2.955E-06	-2.344E-06	-1.722E-06	-1.212E-06	-8.355E-07	-5.320E-07	-3.201E-07	-2.057E-07	-1.272E-07	-8.397E-07	-5.891E-07
10	6.397E-06	-5.190E-06	-4.250E-06	-3.131E-06	-2.240E-06	-1.519E-06	-1.149E-06	-7.244E-07	-4.666E-07	-3.343E-07	-2.345E-07	
15	1.921E-05	-1.502E-05	-1.234E-05	-9.059E-06	-6.491E-06	-4.395E-06	-3.324E-06	-2.235E-06	-1.633E-06	-1.350E-06	-9.673E-07	-6.766E-07
20	4.003E-05	-3.130E-05	-2.567E-05	-1.888E-05	-1.351E-05	-9.159E-06	-6.920E-06	-4.688E-06	-3.508E-06	-2.814E-06	-2.016E-06	-1.414E-06
30	1.093E-04	-8.547E-05	-7.013E-05	-5.157E-05	-3.600E-05	-2.502E-05	-1.493E-05	-9.586E-06	-6.688E-06	-5.508E-06	-4.044E-06	
45	2.818E-04	-2.252E-04	-1.843E-04	-1.360E-04	-9.717E-05	-6.601E-05	-4.994E-05	-3.588E-05	-2.529E-05	-2.028E-05	-1.453E-05	-1.019E-05
60	5.616E-04	-4.461E-04	-3.613E-04	-2.661E-04	-1.905E-04	-1.292E-04	-9.776E-05	-6.573E-05	-4.951E-05	-3.971E-05	-2.845E-05	-1.956E-05
75	9.399E-04	-7.380E-04	-6.069E-04	-4.471E-04	-3.201E-04	-2.173E-04	-1.644E-04	-1.106E-04	-8.329E-05	-6.640E-05	-4.786E-05	-3.575E-05
90	1.441E-03	-1.135E-03	-9.149E-04	-6.899E-04	-4.767E-04	-3.358E-04	-2.541E-04	-1.709E-04	-1.268E-04	-1.033E-04	-7.399E-05	-5.190E-05
120	2.987E-03	-2.349E-03	-1.983E-03	-1.475E-03	-1.062E-03	-7.227E-04	-5.474E-04	-3.644E-04	-2.776E-04	-2.027E-04	-1.595E-04	-1.119E-04
150	5.936E-03	-5.048E-03	-4.188E-03	-3.305E-03	-2.467E-03	-1.722E-03	-1.111E-03	-8.855E-04	-6.681E-04	-5.362E-04	-4.844E-04	-2.698E-04
179	4.099E-04	-1.147E-03	-1.440E-03	-1.897E-03	-2.601E-03	-3.723E-03	-4.648E-03	-6.143E-03	-6.998E-03	-7.378E-03	-7.305E-03	-6.441E-03

1.1 (3) SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM ENERGY (MEV)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	5.665F-04	6.157E-08	6.320E-08	6.339E-08	6.219E-08	6.070E-08	5.758E-08	5.321E-08	4.699E-08	4.180E-08	3.341E-08	2.678E-08
2	2.193F-07	2.245E-07	2.184E-07	2.051E-07	1.899E-07	1.757E-07	1.505E-07	1.188E-07	7.650E-08	4.247E-08	1.093E-08	-5.211E-08
3	4.574F-07	4.413E-07	4.081F-07	3.509E-07	2.900E-07	2.531E-07	1.742E-07	7.768E-08	-4.885E-08	-1.497E-07	-3.066E-07	-4.266E-07
4	7.406F-07	6.573E-07	5.793F-07	4.399E-07	3.217E-07	2.192E-07	4.586E-08	-1.638E-07	-4.367E-07	-6.533E-07	-9.887E-07	-1.244E-06
6	1.256F-06	9.355E-07	6.750E-07	2.329E-07	-1.264E-07	-4.326E-07	-9.440E-07	-1.558E-06	-2.352E-06	-2.940F-06	-3.950E-06	-4.691E-06
8	1.476F-06	7.375E-07	1.374E-07	-8.201E-07	-1.594E-06	-2.235E-06	-3.316E-06	-4.610E-06	-6.286E-06	-7.610F-06	-9.651E-06	-1.119E-05
10	1.121F-06	-2.411E-07	-1.324E-06	-3.030E-06	-4.387E-06	-5.535E-06	-7.445E-06	-9.734E-06	-1.270E-05	-1.504E-05	-1.865F-05	-2.138E-05
15	-3.624F-06	-7.466E-06	-1.045E-05	-1.512E-05	-1.882E-05	-2.197E-05	-2.721E-05	-3.351E-05	-4.169E-05	-4.817E-05	-5.816E-05	-6.571E-05
20	-1.589F-05	-2.346E-05	-2.933F-05	-3.854E-05	-4.589E-05	-5.214E-05	-6.261E-05	-7.524E-05	-9.171E-05	-1.048E-04	-1.250E-04	-1.402E-04
30	-8.824F-05	-8.647E-05	-1.008F-04	-1.235E-04	-1.419E-04	-1.577E-04	-1.842E-04	-2.165E-04	-2.588E-04	-2.926E-04	-3.450F-04	-3.847E-04
45	-2.162F-04	-2.560E-04	-2.877E-04	-3.397E-04	-3.822E-04	-4.190E-04	-4.815E-04	-5.582E-04	-6.595E-04	-7.408E-04	-8.681E-04	-9.656E-04
60	-4.222F-04	-4.862E-04	-5.386E-04	-6.249E-04	-6.944E-04	-7.587E-04	-8.654E-04	-9.970E-04	-1.172E-03	-1.314E-03	-1.539F-03	-1.713E-03
75	-6.408F-04	-7.275E-04	-7.994E-04	-9.191E-04	-1.010E-03	-1.107E-03	-1.257E-03	-1.445E-03	-1.696E-03	-1.910E-03	-2.229F-03	-2.488E-03
90	-8.237F-04	-9.275E-04	-1.015E-03	-1.160E-03	-1.283E-03	-1.391E-03	-1.577E-03	-1.809E-03	-2.124E-03	-2.383E-03	-2.803F-03	-3.141E-03
120	-4.342E-04	-1.044E-03	-1.131E-03	-1.294E-03	-1.426E-03	-1.544E-03	-1.748E-03	-2.006E-03	-2.360E-03	-2.657E-03	-3.150F-03	-3.560E-03
150	-8.172F-04	-6.878E-04	-7.470F-04	-8.495E-04	-9.361E-04	-1.013E-03	-1.147E-03	-1.318E-03	-1.554E-03	-1.755E-03	-2.095E-03	-2.383E-03
179	-2.245F-05	-2.500E-05	-2.715E-05	-3.075E-05	-3.397E-05	-3.676E-05	-4.127E-05	-4.789E-05	-5.652E-05	-6.390F-05	-7.648E-05	-8.727E-05
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	2.133E-04	1.271E-08	3.563E-04	-8.047E-09	-1.175E-08	-1.744E-08	-1.954E-08	-2.007E-08	-1.932E-08	-1.710E-08	-1.377E-08	-1.137E-08
2	-8.534F-04	-1.360E-07	-1.875E-07	-2.344E-07	-2.594E-07	-2.765E-07	-2.735E-07	-2.632E-07	-2.373E-07	-2.012E-07	-1.575E-07	-1.284E-07
3	-5.223F-07	-6.609E-07	-8.102E-07	-9.402E-07	-1.001E-06	-1.025E-06	-9.952E-07	-9.476E-07	-8.442E-07	-7.101E-07	-5.526E-07	-4.495E-07
4	-1.447F-06	-1.751E-06	-2.049E-06	-2.314E-06	-2.494E-06	-2.450E-06	-2.362E-06	-2.237E-06	-1.983E-06	-1.663E-06	-1.291E-06	-1.049E-06
6	-5.273F-06	-6.138E-06	-6.972E-06	-7.690E-06	-7.947E-06	-7.939E-06	-7.599E-06	-7.177E-06	-6.335E-06	-5.294E-06	-4.102E-06	-3.330E-06
8	-1.241F-05	-1.422E-05	-1.543E-05	-1.740E-05	-1.793E-05	-1.776E-05	-1.696E-05	-1.599E-05	-1.409E-05	-1.176E-05	-9.099F-06	-7.384E-06
10	-2.353F-05	-2.672E-05	-2.974E-05	-3.226E-05	-3.313E-05	-3.271E-05	-3.118E-05	-2.937E-05	-2.584E-05	-2.155F-05	-1.667E-05	-1.352E-05
15	-7.167F-05	-8.044E-05	-8.874E-05	-9.552E-05	-9.770E-05	-9.609E-05	-9.143E-05	-8.601E-05	-7.560E-05	-6.300E-05	-4.870F-05	-3.951E-05
20	-1.523F-04	-1.700E-04	-1.960E-04	-2.005E-04	-2.046E-04	-2.011E-04	-1.913E-04	-1.800E-04	-1.582E-04	-1.318E-04	-1.019F-04	-8.270E-04
30	-4.162F-04	-4.628E-04	-5.072F-04	-5.437E-04	-5.564E-04	-5.467E-04	-5.209E-04	-4.906E-04	-4.321E-04	-3.607E-04	-2.793E-04	-2.267E-04
45	-1.044F-03	-1.161E-03	-1.275E-03	-1.374E-03	-1.411E-03	-1.400E-03	-1.342E-03	-1.270E-03	-1.126E-03	-9.446E-04	-7.345E-04	-5.975E-04
60	-1.854F-03	-2.071E-03	-2.287E-03	-2.492E-03	-2.582E-03	-2.598E-03	-2.517E-03	-2.400E-03	-2.149E-03	-1.820E-03	-1.426E-03	-1.164E-03
75	-2.701F-03	-3.036E-03	-3.387E-03	-3.740E-03	-3.924E-03	-4.028E-03	-3.960E-03	-3.819E-03	-3.475E-03	-2.983E-03	-2.363F-03	-1.939E-03
90	-3.423E-03	-3.877E-03	-4.370E-03	-4.918E-03	-5.241E-03	-5.521E-03	-5.539E-03	-5.427E-03	-5.050E-03	-4.424E-03	-3.565E-03	-2.951E-03
120	-3.914F-03	-4.512E-03	-5.220F-03	-6.126E-03	-6.787E-03	-7.661E-03	-8.147E-03	-8.385E-03	-8.420E-03	-7.959E-03	-6.882E-03	-5.910E-03
150	-2.940F-03	-3.089E-03	-3.661E-03	-4.458E-03	-5.134E-03	-6.257E-03	-7.170E-03	-7.924E-03	-9.058E-03	-1.006E-02	-1.054F-02	-1.025E-02
179	-9.693F-05	-1.141E-04	-1.360E-04	-1.689E-04	-1.970E-04	-2.503E-04	-2.987E-04	-3.446E-04	-4.325E-04	-5.591E-04	-7.632E-04	-9.635E-04
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	-8.337F-09	-6.555E-09	-5.393F-09	-3.976E-09	-2.849E-09	-1.933E-09	-1.463E-09	-9.838E-10	-7.410E-10	-5.944F-10	-4.258E-10	-2.987E-10
2	-4.327E-02	-7.304E-08	-5.990F-08	-4.413E-08	-3.159E-08	-2.143E-08	-1.621E-08	-1.090E-08	-8.209E-09	-6.584F-09	-4.717E-09	-3.309E-09
3	-3.258F-07	-2.549E-07	-2.092F-07	-1.539E-07	-1.101E-07	-7.469E-08	-5.650E-08	-3.799E-08	-2.861E-08	-2.295E-08	-1.644F-08	-1.153E-08
4	-7.596F-07	-5.842E-07	-4.870E-07	-3.586E-07	-2.644E-07	-1.740E-07	-1.316E-07	-8.851E-08	-6.666E-08	-5.347E-08	-3.830F-08	-2.687E-08
6	-2.409E-06	-1.844E-06	-1.540E-06	-1.137E-06	-8.174E-07	-5.516E-07	-4.174E-07	-2.895E-07	-2.113E-07	-1.695F-07	-1.214F-07	-8.517E-08
8	-3.340F-06	-4.176E-06	-3.425E-06	-2.519E-06	-1.802E-06	-1.222E-06	-9.245E-07	-6.216E-07	-4.682E-07	-3.755F-07	-2.690F-07	-1.887E-07
10	-4.778F-06	-7.645E-06	-6.272F-06	-4.612E-06	-3.299E-06	-2.237E-06	-1.472E-06	-1.138E-06	-8.571E-07	-6.874E-07	-4.924F-07	-3.455E-07
15	-2.856E-05	-2.233E-05	-1.832E-05	-1.317E-05	-9.677E-06	-6.535E-06	-4.943E-06	-3.323E-06	-2.503E-06	-2.008E-06	-1.438E-06	-1.009E-06
20	-5.980E-05	-4.675E-05	-3.835E-05	-2.820E-05	-2.018E-05	-1.368E-05	-1.035E-05	-6.958E-06	-5.241E-06	-4.203E-06	-3.011F-06	-2.113E-06
30	-1.640F-04	-1.283E-04	-1.052F-04	-7.739E-05	-5.537E-05	-3.755E-05	-2.840E-05	-1.910E-05	-1.438E-05	-1.154E-05	-8.264F-06	-5.798E-06
45	-4.330F-04	-3.389E-04	-2.782F-04	-2.046E-04	-1.464E-04	-9.931E-05	-7.512E-05	-5.051E-05	-3.805E-05	-3.052E-05	-2.186F-05	-1.534E-05
60	-8.459F-04	-6.628E-04	-5.444E-04	-4.007E-04	-2.869E-04	-1.946E-04	-1.422F-04	-9.899E-05	-7.456E-05	-5.980E-05	-4.284F-05	-3.005E-05
75	-1.416F-03	-1.112E-03	-9.143F-04	-7.36E-04	-4.875E-04	-3.274E-04	-2.477E-04	-1.666E-04	-1.255E-04	-1.006F-04	-7.210F-05	-5.058E-05
90	-2.172E-03	-1.711E-03	-1.409E-03	-1.040E-03	-7.457E-04	-5.080E-04	-3.829E-04	-2.575E-04	-1.940E-04	-1.556F-04	-1.115E-04	-7.820E-05
120	-4.504E-03	-3.602E-03	-2.987E-03	-2.227E-03	-1.600E-03	-1.106E-03	-8.248E-04	-5.515E-04	-4.183E-04	-3.355F-04	-2.440F-04	-1.687E-04
150	-8.968F-03	-7.679E-03	-6.420E-03	-5.111E-03	-3.764E-03	-2.596E-03	-1.975E-03	-1.334E-03	-1.007E-03	-8.079F-04	-5.792F-04	-4.065E-04
179	-1.358F-03	-1.748E-03	-2.133E-03	-2.890F-03	-3.945E-03	-5.669E-03	-7.137E-03	-9.341E-03	-1.063E-02	-1.119F-02	-1.106F-02	-9.733E-03

BE (4) SHERMAN FUNCTIONS DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM ENERGY (MeV)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	7.923E-09	9.616E-08	1.051E-07	1.108E-07	1.170E-07	1.128E-07	1.122E-07	1.075E-07	9.972E-08	9.273E-08	8.102E-08	7.151E-08
2	3.310E-07	3.776E-07	3.945E-07	3.959E-07	3.834E-07	3.688E-07	3.383E-07	2.968E-07	2.392E-07	1.919E-07	1.170E-07	5.881E-08
3	7.659E-07	8.124E-07	8.136E-07	7.581E-07	6.902E-07	5.416E-07	5.372E-07	4.052E-07	2.295E-07	8.879E-08	-1.307E-07	-2.988E-07
4	1.322E-06	1.341E-06	1.270E-06	1.115E-06	9.640E-07	8.265E-07	8.962E-07	2.961E-07	-8.532E-08	-3.877E-07	-9.554E-07	-1.211E-06
6	2.678E-06	2.404E-06	2.070E-06	1.496E-06	9.907E-07	5.579E-07	-1.662E-07	-1.032E-06	-2.144E-06	-3.019E-06	-4.363E-06	-5.378E-06
8	3.972E-06	3.062E-06	2.267E-06	9.030E-07	-2.005E-07	-1.134E-06	-2.670E-06	-4.504E-06	-6.844E-06	-8.679E-06	-1.149E-05	-1.361E-05
10	4.780E-06	2.912E-06	1.741E-06	-1.161E-06	-3.140E-06	-4.799E-06	-7.527E-06	-1.075E-05	-1.488E-05	-1.811E-05	-2.306E-05	-2.677E-05
15	2.164E-06	-3.731E-06	-8.280E-06	-1.527E-05	-2.040E-05	-2.521E-05	-3.265E-05	-4.144E-05	-5.272E-05	-6.157E-05	-7.516E-05	-8.531E-05
20	-1.086E-05	-2.283E-05	-3.180E-05	-4.558E-05	-5.624E-05	-6.515E-05	-7.985E-05	-9.733E-05	-1.198E-04	-1.376E-04	-1.648E-04	-1.854E-04
30	-7.961E-05	-1.063E-04	-1.297E-04	-1.630E-04	-1.890E-04	-2.110E-04	-2.477E-04	-2.917E-04	-3.489E-04	-3.942E-04	-4.643E-04	-5.174E-04
45	-2.966E-04	-3.564E-04	-4.020E-04	-4.754E-04	-5.340E-04	-5.842E-04	-6.688E-04	-7.717E-04	-9.071E-04	-1.016E-03	-1.185E-03	-1.314E-03
60	-6.143E-04	-7.065E-04	-7.791E-04	-8.978E-04	-9.945E-04	-1.078E-03	-1.221E-03	-1.396E-03	-1.629E-03	-1.818E-03	-2.115E-03	-2.360E-03
75	-9.608E-04	-1.061E-03	-1.179E-03	-1.340E-03	-1.477E-03	-1.590E-03	-1.790E-03	-2.038E-03	-2.371E-03	-2.643E-03	-3.078E-03	-3.420E-03
90	-1.234E-03	-1.396E-03	-1.512E-03	-1.704E-03	-1.869E-03	-2.012E-03	-2.250E-03	-2.566E-03	-2.982E-03	-3.326E-03	-3.882E-03	-4.329E-03
120	-1.444E-03	-1.590E-03	-1.713E-03	-1.920E-03	-2.004E-03	-2.250E-03	-2.520E-03	-2.862E-03	-3.331E-03	-3.726E-03	-4.381E-03	-4.925E-03
150	-9.585E-04	-1.053E-03	-1.132E-03	-1.266E-03	-1.390E-03	-1.481E-03	-1.659E-03	-1.885E-03	-2.199E-03	-2.466E-03	-2.919E-03	-3.305E-03
179	-3.491E-05	-3.832E-05	-4.110E-05	-4.604E-05	-5.008E-05	-5.340E-05	-6.052E-05	-6.897E-05	-8.006E-05	-8.990E-05	-1.067E-04	-1.211E-04
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	6.354E-09	5.079E-08	3.682E-08	2.148E-08	1.173E-08	6.881E-10	-4.773E-09	-1.604E-09	-9.792E-09	-1.002E-08	-8.704E-09	-7.469E-09
2	1.150E-09	-6.142E-08	-1.760E-07	-2.120E-07	-2.512E-07	-2.873E-07	-2.892E-07	-2.831E-07	-2.598E-07	-2.230E-07	-1.760E-07	-1.440E-07
3	-4.338E-07	-6.307E-07	-8.441E-07	-1.040E-06	-1.137E-06	-1.192E-06	-1.173E-06	-1.125E-06	-1.010E-06	-8.542E-07	-6.673E-07	-5.437E-07
4	-1.495E-06	-1.922E-06	-2.744E-06	-2.732E-06	-2.911E-06	-2.982E-06	-2.897E-06	-2.759E-06	-2.458E-06	-2.068E-06	-1.609E-06	-1.309E-06
6	-6.183E-06	-7.382E-06	-8.540E-06	-9.569E-06	-9.907E-06	-1.004E-05	-9.652E-06	-9.137E-06	-8.087E-06	-6.771E-06	-5.252E-06	-4.329E-06
8	-1.529E-05	-1.777E-05	-2.013E-05	-2.219E-05	-2.297E-05	-2.287E-05	-2.189E-05	-2.076E-05	-1.824E-05	-1.524E-05	-1.180E-05	-9.582E-06
10	-2.973E-05	-3.407E-05	-3.821E-05	-4.170E-05	-4.204E-05	-4.255E-05	-4.063E-05	-3.830E-05	-3.374E-05	-2.816E-05	-2.179E-05	-1.768E-05
15	-9.343E-05	-1.053E-04	-1.163E-04	-1.257E-04	-1.267E-04	-1.267E-04	-1.206E-04	-1.135E-04	-9.982E-05	-8.319E-05	-6.433E-05	-5.219E-05
20	-2.015E-04	-2.253E-04	-2.470E-04	-2.660E-04	-2.718E-04	-2.670E-04	-2.540E-04	-2.390E-04	-2.100E-04	-1.750E-04	-1.353E-04	-1.098E-04
30	-5.593E-04	-6.212E-04	-6.800E-04	-7.281E-04	-7.474E-04	-7.308E-04	-6.958E-04	-6.552E-04	-5.767E-04	-4.813E-04	-3.725E-04	-3.024E-04
45	-1.417E-03	-1.722E-03	-1.851E-03	-1.898E-03	-1.898E-03	-1.800E-03	-1.600E-03	-1.702E-03	-1.507E-03	-1.264E-03	-9.827E-04	-7.992E-04
60	-2.532E-03	-2.817E-03	-3.104E-03	-3.368E-03	-3.483E-03	-3.497E-03	-3.383E-03	-3.223E-03	-2.883E-03	-2.440E-03	-1.910E-03	-1.558E-03
75	-3.702E-03	-4.143E-03	-4.605E-03	-5.067E-03	-5.304E-03	-5.430E-03	-5.330E-03	-5.135E-03	-4.666E-03	-4.001E-03	-3.167E-03	-2.598E-03
90	-4.703E-03	-5.303E-03	-5.962E-03	-6.675E-03	-7.094E-03	-7.454E-03	-7.646E-03	-7.305E-03	-6.787E-03	-5.939E-03	-4.781E-03	-3.955E-03
120	-5.397E-03	-6.193E-03	-7.146E-03	-8.340E-03	-9.421E-03	-1.037E-02	-1.101E-02	-1.132E-02	-1.134E-02	-1.070E-02	-9.240E-03	-7.928E-03
150	-3.648E-03	-4.249E-03	-5.016E-03	-6.085E-03	-6.907E-03	-8.500E-03	-9.725E-03	-1.073E-02	-1.225E-02	-1.358E-02	-1.420E-02	-1.378E-02
179	-1.341E-04	-1.571E-04	-1.872E-04	-2.308E-04	-2.899E-04	-3.406E-04	-4.059E-04	-4.680E-04	-5.870E-04	-7.581E-04	-1.035E-03	-1.306E-03
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	-5.620E-09	-4.463E-09	-3.490E-09	-2.733E-09	-1.941E-09	-1.334E-09	-1.010E-09	-6.795E-10	-5.113E-10	-4.106E-10	-2.942E-10	-2.064E-10
2	-1.049E-07	-8.224E-08	-6.750E-08	-4.975E-08	-3.582E-08	-2.616E-08	-1.828E-08	-1.229E-08	-9.259E-09	-7.426E-09	-5.320E-09	-3.732E-09
3	-3.946E-07	-3.089E-07	-2.530E-07	-1.866E-07	-1.314E-07	-9.059E-08	-6.853E-08	-4.608E-08	-3.471E-08	-2.784E-08	-1.994E-08	-1.393E-08
4	-9.488E-07	-7.424E-07	-6.094E-07	-4.482E-07	-3.208E-07	-2.175E-07	-1.646E-07	-1.106E-07	-8.334E-08	-6.685E-08	-4.789E-08	-3.359E-08
6	-3.089E-06	-2.416E-06	-1.982E-06	-1.458E-06	-1.043E-06	-7.074E-07	-5.351E-07	-3.598E-07	-2.710E-07	-2.174E-07	-1.557E-07	-1.092E-07
8	-6.932E-06	-5.421E-06	-4.440E-06	-3.271E-06	-2.360E-06	-1.587E-06	-1.260E-06	-8.071E-07	-6.079E-07	-4.876E-07	-3.493E-07	-2.450E-07
10	-1.279E-05	-1.000E-05	-8.204E-06	-6.037E-06	-4.314E-06	-2.927E-06	-2.214E-06	-1.489E-06	-1.121E-06	-8.993E-07	-6.442E-07	-4.519E-07
15	-3.773E-05	-2.950E-05	-2.420E-05	-1.779E-05	-1.271E-05	-8.633E-06	-6.530E-06	-4.391E-06	-3.307E-06	-2.652E-06	-1.900E-06	-1.333E-06
20	-9.938E-05	-6.206E-05	-5.091E-05	-3.744E-05	-2.678E-05	-1.816E-05	-1.374E-05	-9.237E-06	-6.957E-06	-5.580E-06	-3.997E-06	-2.804E-06
30	-2.187E-04	-1.711E-04	-1.403E-04	-1.032E-04	-7.384E-05	-5.007E-05	-3.788E-05	-2.547E-05	-1.918E-05	-1.538E-05	-1.102E-05	-7.732E-06
45	-5.791E-04	-4.532E-04	-3.720E-04	-2.736E-04	-1.958E-04	-1.328E-04	-1.004E-04	-6.754E-05	-5.087E-05	-4.080E-05	-2.923E-05	-2.051E-05
60	-1.133E-03	-8.873E-04	-7.281E-04	-5.364E-04	-3.840E-04	-2.605E-04	-1.970E-04	-1.325E-04	-9.979E-05	-8.004E-05	-5.734E-05	-4.023E-05
75	-1.897E-03	-1.489E-03	-1.224E-03	-9.020E-04	-6.461E-04	-4.683E-04	-3.317E-04	-2.303E-04	-1.680E-04	-1.348E-04	-9.654E-05	-6.733E-05
90	-2.910E-03	-2.292E-03	-1.881E-03	-1.392E-03	-9.982E-04	-6.776E-04	-5.128E-04	-3.449E-04	-2.598E-04	-2.084E-04	-1.493E-04	-1.047E-04
120	-6.037E-03	-4.826E-03	-4.005E-03	-2.777E-03	-2.147E-03	-1.459E-03	-1.105E-03	-7.435E-04	-5.602E-04	-4.493E-04	-3.219E-04	-2.259E-04
150	-1.204E-02	-1.030E-02	-8.877E-03	-6.850E-03	-5.047E-03	-3.477E-03	-2.646E-03	-1.787E-03	-1.348E-03	-1.082E-03	-7.756E-04	-5.443E-04
179	-1.841E-03	-2.368E-03	-2.890E-03	-3.916E-03	-5.308E-03	-7.075E-03	-9.658E-03	-1.262E-02	-1.434E-02	-1.509E-02	-1.488E-02	-1.307E-02

B (5) SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM ENERGY (MeV)												
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	8.355E-08	1.199E-07	1.416E-07	1.630E-07	1.702E-07	1.740E-07	1.732E-07	1.755E-07	1.676E-07	1.595E-07	1.447E-07	1.323E-07
2	3.905E-07	5.145E-07	5.743E-07	6.143E-07	6.213E-07	6.138E-07	5.866E-07	5.405E-07	4.702E-07	4.101E-07	3.128E-07	2.362E-07
3	9.669E-07	1.180E-06	1.254E-06	1.272E-06	1.270E-06	1.164E-06	1.047E-06	8.855E-07	6.618E-07	4.795E-07	1.929E-07	-2.782E-08
4	1.781E-06	2.063E-06	2.100E-06	2.021E-06	1.849E-06	1.693E-06	1.402E-06	1.030E-06	5.353E-07	1.409E-07	-4.704E-07	-9.360E-07
6	4.136E-06	4.202E-06	3.967E-06	3.316E-06	2.704E-06	2.168E-06	1.232E-06	9.487E-08	-1.373E-06	-2.517E-06	-4.269E-06	-5.589E-06
8	6.923E-06	6.312E-06	5.426E-06	3.751E-06	2.310E-06	1.072E-06	-9.796E-07	-3.403E-06	-6.480E-06	-8.876E-06	-1.253E-05	-1.527E-05
10	9.634E-06	7.727E-06	5.790E-06	2.493E-06	-1.711E-07	-2.409E-06	-6.070E-06	-1.035E-05	-1.577E-05	-1.998E-05	-2.638E-05	-3.117E-05
15	1.216E-05	4.305E-06	-2.029E-06	-1.177E-05	-1.925E-05	-2.542E-05	-3.541E-05	-4.703E-05	-6.173E-05	-7.315E-05	-9.056E-05	-1.036E-04
20	2.207E-06	-1.503E-05	-2.802E-05	-4.741E-05	-6.211E-05	-7.420E-05	-9.380E-05	-1.167E-04	-1.458E-04	-1.685E-04	-2.032E-04	-2.292E-04
30	-7.678E-05	-1.196E-04	-1.508E-04	-1.970E-04	-2.273E-04	-2.616E-04	-3.096E-04	-3.663E-04	-4.393E-04	-4.967E-04	-5.849E-04	-6.514E-04
45	-3.661E-04	-4.533E-04	-5.179E-04	-6.161E-04	-6.970E-04	-7.580E-04	-8.663E-04	-9.968E-04	-1.167E-03	-1.303E-03	-1.514E-03	-1.675E-03
60	-8.156E-04	-9.445E-04	-1.043E-03	-1.198E-03	-1.322E-03	-1.428E-03	-1.608E-03	-1.828E-03	-2.119E-03	-2.353E-03	-2.723E-03	-3.008E-03
75	-1.318E-03	-1.480E-03	-1.607E-03	-1.815E-03	-1.987E-03	-2.130E-03	-2.380E-03	-2.689E-03	-3.103E-03	-3.441E-03	-3.980E-03	-4.404E-03
90	-1.751E-03	-1.937E-03	-2.081E-03	-2.332E-03	-2.575E-03	-2.713E-03	-3.019E-03	-3.402E-03	-3.919E-03	-4.345E-03	-5.036E-03	-5.591E-03
120	-2.046E-03	-2.235E-03	-2.390E-03	-2.648E-03	-2.866E-03	-3.058E-03	-3.393E-03	-3.816E-03	-4.399E-03	-4.890E-03	-5.706E-03	-6.385E-03
150	-1.364E-03	-1.485E-03	-1.582E-03	-1.752E-03	-1.894E-03	-2.019E-03	-2.239E-03	-2.502E-03	-2.911E-03	-3.245E-03	-3.811E-03	-4.299E-03
179	-4.972E-05	-5.410E-05	-5.773E-05	-6.378E-05	-6.892E-05	-7.349E-05	-8.148E-05	-9.193E-05	-1.061E-04	-1.184E-04	-1.394E-04	-1.575E-04
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	1.217E-07	1.043E-07	8.470E-08	6.258E-08	4.781E-08	2.985E-08	1.981E-08	1.370E-08	7.108E-09	2.969E-09	6.797E-10	-2.147E-11
2	1.734E-07	7.556E-08	-2.727E-08	-1.333E-07	-1.947E-07	-2.529E-07	-2.712E-07	-2.725E-07	-2.570E-07	-2.246E-07	-1.793E-07	-1.474E-07
3	-2.058E-07	-4.777E-07	-7.546E-07	-1.025E-06	-1.167E-06	-1.272E-06	-1.272E-06	-1.232E-06	-1.118E-06	-9.502E-07	-7.459E-07	-6.090E-07
4	-1.308E-06	-1.871E-06	-2.433E-06	-2.961E-06	-3.219E-06	-3.364E-06	-3.299E-06	-3.159E-06	-2.832E-06	-2.392E-06	-1.867E-06	-1.521E-06
6	-6.635E-06	-8.196E-06	-9.722E-06	-1.109E-05	-1.169E-05	-1.185E-05	-1.145E-05	-1.087E-05	-9.647E-06	-8.094E-06	-6.288E-06	-5.111E-06
8	-1.743E-05	-2.064E-05	-2.373E-05	-2.642E-05	-2.750E-05	-2.753E-05	-2.643E-05	-2.499E-05	-2.210E-05	-1.849E-05	-1.433E-05	-1.164E-05
10	-3.495E-05	-4.053E-05	-4.526E-05	-5.040E-05	-5.211E-05	-5.180E-05	-4.956E-05	-4.677E-05	-4.125E-05	-3.445E-05	-2.668E-05	-2.166E-05
15	-1.138E-04	-1.288E-04	-1.431E-04	-1.548E-04	-1.587E-04	-1.565E-04	-1.491E-04	-1.404E-04	-1.235E-04	-1.029E-04	-7.962E-05	-6.459E-05
20	-2.496E-04	-2.796E-04	-3.070E-04	-3.307E-04	-3.380E-04	-3.322E-04	-3.160E-04	-2.973E-04	-2.613E-04	-2.178E-04	-1.684E-04	-1.368E-04
30	-7.038E-04	-7.811E-04	-8.541E-04	-9.135E-04	-9.371E-04	-9.155E-04	-8.712E-04	-8.200E-04	-7.215E-04	-6.019E-04	-4.658E-04	-3.780E-04
45	-1.803E-03	-1.995E-03	-2.180E-03	-2.337E-03	-2.397E-03	-2.266E-03	-2.033E-03	-1.739E-03	-1.393E-03	-1.058E-03	-7.123E-03	-1.002E-03
60	-3.240E-03	-3.592E-03	-3.945E-03	-4.267E-03	-4.404E-03	-4.411E-03	-4.262E-03	-4.057E-03	-3.626E-03	-3.065E-03	-2.398E-03	-1.958E-03
75	-4.753E-03	-5.298E-03	-5.860E-03	-6.433E-03	-6.720E-03	-6.861E-03	-6.725E-03	-6.472E-03	-5.873E-03	-5.032E-03	-3.979E-03	-3.263E-03
90	-6.054E-03	-6.798E-03	-7.613E-03	-8.491E-03	-9.006E-03	-9.432E-03	-9.429E-03	-9.217E-03	-8.550E-03	-7.473E-03	-6.011E-03	-4.970E-03
120	-6.973E-03	-7.966E-03	-9.155E-03	-1.064E-02	-1.173E-02	-1.317E-02	-1.395E-02	-1.432E-02	-1.432E-02	-1.349E-02	-1.163E-02	-9.970E-03
150	-4.724E-03	-5.478E-03	-6.442E-03	-7.786E-03	-8.927E-03	-1.082E-02	-1.236E-02	-1.363E-02	-1.553E-02	-1.719E-02	-1.793E-02	-1.738E-02
179	-1.738E-04	-2.027E-04	-2.408E-04	-2.957E-04	-3.440E-04	-4.345E-04	-5.172E-04	-5.959E-04	-7.467E-04	-9.639E-04	-1.315E-03	-1.654E-03
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	-3.648E-10	-3.954E-10	-3.690E-10	-3.029E-10	-2.294E-10	-1.603E-10	-1.226E-10	-8.309E-11	-6.276E-11	-5.040E-11	-3.615E-11	-2.537E-11
2	-1.078E-07	-8.467E-08	-6.962E-08	-5.130E-08	-3.674E-08	-2.493E-08	-1.886E-08	-1.269E-08	-9.556E-09	-7.664E-09	-5.481E-09	-3.852E-09
3	-4.428E-07	-3.469E-07	-2.847E-07	-2.097E-07	-1.501E-07	-1.018E-07	-7.703E-08	-5.180E-08	-3.961E-08	-3.129E-08	-2.242E-08	-1.573E-08
4	-1.103E-06	-8.636E-07	-7.090E-07	-5.216E-07	-3.777E-07	-2.532E-07	-1.915E-07	-1.288E-07	-9.701E-08	-7.781E-08	-5.574E-08	-3.910E-08
6	-3.702E-06	-2.896E-06	-2.377E-06	-1.748E-06	-1.251E-06	-8.483E-07	-6.417E-07	-4.314E-07	-3.250E-07	-2.606E-07	-1.867E-07	-1.310E-07
8	-8.423E-06	-6.588E-06	-5.406E-06	-3.975E-06	-2.844E-06	-1.929E-06	-1.456E-06	-9.810E-07	-7.389E-07	-5.926E-07	-4.246E-07	-2.978E-07
10	-1.567E-05	-1.225E-05	-1.003E-05	-7.391E-06	-5.288E-06	-3.586E-06	-2.713E-06	-1.824E-06	-1.374E-06	-1.102E-06	-7.893E-07	-5.537E-07
15	-4.671E-05	-3.652E-05	-2.993E-05	-2.203E-05	-1.576E-05	-1.069E-05	-8.083E-06	-5.345E-06	-4.094E-06	-3.281E-06	-2.352E-06	-1.650E-06
20	-9.876E-05	-7.721E-05	-6.334E-05	-4.657E-05	-3.372E-05	-2.259E-05	-1.709E-05	-1.149E-05	-8.655E-06	-6.942E-06	-4.973E-06	-3.489E-06
30	-2.735E-04	-2.188E-04	-1.754E-04	-1.290E-04	-9.210E-05	-6.259E-05	-4.734E-05	-3.183E-05	-2.398E-05	-1.923E-05	-1.378E-05	-9.664E-06
45	-7.260E-04	-5.681E-04	-4.662E-04	-3.430E-04	-2.454E-04	-1.664E-04	-1.259E-04	-8.466E-05	-6.376E-05	-5.114E-05	-3.664E-05	-2.570E-05
60	-1.421E-03	-1.113E-03	-9.144E-04	-6.730E-04	-4.818E-04	-3.268E-04	-2.472E-04	-1.662E-04	-1.252E-04	-1.004E-04	-7.195E-05	-5.047E-05
75	-2.382E-03	-1.870E-03	-1.537E-03	-1.137E-03	-8.110E-04	-5.503E-04	-4.163E-04	-2.800E-04	-2.109E-04	-1.692E-04	-1.212E-04	-8.501E-05
90	-3.655E-03	-2.878E-03	-2.370E-03	-1.748E-03	-1.257E-03	-8.508E-04	-6.438E-04	-4.330E-04	-3.262E-04	-2.616E-04	-1.874E-04	-1.315E-04
120	-7.587E-03	-6.063E-03	-5.030E-03	-3.738E-03	-2.691E-03	-1.831E-03	-1.387E-03	-9.334E-04	-7.033E-04	-5.642E-04	-4.042E-04	-2.836E-04
150	-1.516E-02	-1.246E-02	-1.116E-02	-8.606E-03	-6.377E-03	-4.365E-03	-3.222E-03	-2.243E-03	-1.692E-03	-1.358E-03	-9.738E-04	-6.834E-04
179	-2.338E-03	-3.008E-03	-3.671E-03	-4.977E-03	-6.854E-03	-9.742E-03	-1.223E-02	-1.599E-02	-1.814E-02	-1.907E-02	-1.877E-02	-1.646E-02

C (6) SHERMAN FUNCTION: DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM ENERGY (MeV)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	7.859E-04	1.288E-07	1.634E-01	2.051E-07	2.429E-07	2.414E-07	2.492E-07	2.520E-07	2.500E-07	2.418E-07	2.249E-07	2.097E-07
2	3.864E-07	5.743E-07	7.141E-07	8.226E-07	8.711E-07	8.856E-07	8.828E-07	8.424E-07	7.657E-07	6.950E-07	5.760E-07	4.802E-07
3	9.818E-07	1.428E-06	1.624E-06	1.801E-06	1.870E-06	1.788E-06	1.684E-06	1.509E-06	1.245E-06	1.022E-06	6.663E-07	3.894E-07
4	1.424E-06	2.655E-06	2.490E-06	3.026E-06	2.776E-06	2.466E-06	2.031E-06	1.428E-06	9.383E-07	1.743E-07	-4.098E-07	-5.272E-06
6	5.070E-06	5.727E-06	6.081E-06	5.638E-06	5.075E-06	4.353E-06	1.250E-06	1.841E-06	9.905E-07	-1.426E-06	-3.621E-06	-5.272E-06
8	9.489E-06	9.336E-06	9.363E-06	7.632E-06	5.974E-06	4.407E-06	1.832E-06	-1.233E-06	-5.120E-06	-8.130E-06	-1.270E-05	-1.611E-05
10	1.461E-05	1.368E-05	1.174E-05	7.928E-06	4.607E-06	1.758E-06	-2.924E-06	-8.387E-06	-1.574E-05	-2.052E-05	-2.850E-05	-3.444E-05
15	2.532E-05	1.654E-05	8.583E-06	-4.135E-05	-1.394E-05	-2.208E-05	-3.502E-05	-4.987E-05	-6.837E-05	-8.261E-05	-1.041E-04	-1.201E-04
20	2.331E-05	9.227E-07	-1.657E-05	-4.272E-05	-6.270E-05	-7.818E-05	-1.035E-04	-1.326E-04	-1.690E-04	-1.971E-04	-2.396E-04	-2.713E-04
30	-5.567E-05	-1.162E-04	-1.697E-04	-2.225E-04	-2.692E-04	-3.071E-04	-3.681E-04	-4.391E-04	-5.289E-04	-5.990E-04	-7.060E-04	-7.862E-04
45	-4.144E-04	-5.383E-04	-6.268E-04	-7.566E-04	-8.553E-04	-9.371E-04	-1.072E-03	-1.231E-03	-1.438E-03	-1.602E-03	-1.855E-03	-2.047E-03
60	-1.013E-03	-1.191E-03	-1.321E-03	-1.519E-03	-1.674E-03	-1.805E-03	-2.024E-03	-2.290E-03	-2.639E-03	-2.920E-03	-3.361E-03	-3.702E-03
75	-1.701E-03	-1.918E-03	-2.082E-03	-2.339E-03	-2.546E-03	-2.724E-03	-3.025E-03	-3.396E-03	-3.891E-03	-4.293E-03	-4.936E-03	-5.441E-03
90	-2.305E-03	-2.545E-03	-2.733E-03	-3.034E-03	-3.280E-03	-3.494E-03	-3.861E-03	-4.317E-03	-4.934E-03	-5.443E-03	-6.266E-03	-6.926E-03
120	-2.733E-03	-2.972E-03	-3.163E-03	-3.477E-03	-3.733E-03	-3.967E-03	-4.366E-03	-4.871E-03	-5.574E-03	-6.152E-03	-7.128E-03	-7.940E-03
150	-1.928E-03	-1.962E-03	-2.105E-03	-2.304E-03	-2.478E-03	-2.628E-03	-2.890E-03	-3.225E-03	-3.692E-03	-4.092E-03	-4.771E-03	-5.352E-03
179	-6.668E-05	-7.225E-05	-7.673E-05	-8.406E-05	-9.072E-05	-9.569E-05	-1.052E-04	-1.175E-04	-1.347E-04	-1.494E-04	-1.746E-04	-1.964E-04
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	1.964E-07	1.741E-07	1.483E-07	1.181E-07	9.734E-08	7.080E-08	5.487E-08	4.444E-08	3.188E-08	2.226E-08	1.486E-08	1.122E-08
2	4.008E-07	2.756E-07	1.419E-07	1.299E-10	-8.554E-08	-1.744E-07	-2.109E-07	-2.242E-07	-2.227E-07	-2.009E-07	-1.636E-07	-1.357E-07
3	1.648E-07	-1.808E-07	-5.373E-07	-8.940E-07	-1.091E-06	-1.257E-06	-1.288E-06	-1.266E-06	-1.163E-06	-9.995E-07	-7.895E-07	-6.463E-07
4	-8.782E-07	-1.589E-06	-2.100E-06	-2.996E-06	-3.354E-06	-3.592E-06	-3.437E-06	-3.103E-06	-2.635E-06	-2.064E-06	-1.683E-06	-1.468E-06
6	-6.581E-06	-8.538E-06	-1.040E-05	-1.222E-05	-1.307E-05	-1.335E-05	-1.297E-05	-1.235E-05	-1.100E-05	-9.255E-06	-7.202E-06	-5.858E-06
8	-1.886E-05	-2.279E-05	-2.665E-05	-3.005E-05	-3.149E-05	-3.173E-05	-3.056E-05	-2.895E-05	-2.565E-05	-2.149E-05	-1.668E-05	-1.355E-05
10	-3.911E-05	-4.601E-05	-5.262E-05	-5.831E-05	-6.054E-05	-6.044E-05	-5.794E-05	-5.475E-05	-4.835E-05	-4.042E-05	-3.132E-05	-2.543E-05
15	-1.326E-04	-1.510E-04	-1.684E-04	-1.828E-04	-1.874E-04	-1.854E-04	-1.768E-04	-1.665E-04	-1.466E-04	-1.222E-04	-9.454E-05	-7.671E-05
20	-2.961E-04	-3.325E-04	-3.660E-04	-3.944E-04	-4.073E-04	-3.965E-04	-3.733E-04	-3.549E-04	-3.170E-04	-2.600E-04	-2.010E-04	-1.631E-04
30	-8.494E-04	-9.421E-04	-1.029E-03	-1.100E-03	-1.172E-03	-1.101E-03	-1.047E-03	-9.851E-04	-8.664E-04	-7.225E-04	-5.590E-04	-4.536E-04
45	-2.204E-03	-2.647E-03	-2.847E-03	-2.837E-03	-2.894E-03	-2.898E-03	-2.731E-03	-2.580E-03	-2.281E-03	-1.910E-03	-1.484E-03	-1.206E-03
60	-3.476E-03	-4.394E-03	-4.811E-03	-5.188E-03	-5.345E-03	-5.342E-03	-5.154E-03	-4.902E-03	-4.376E-03	-3.697E-03	-2.890E-03	-2.357E-03
75	-5.856E-03	-6.502E-03	-7.170E-03	-7.840E-03	-8.172E-03	-8.322E-03	-8.144E-03	-7.831E-03	-7.097E-03	-6.074E-03	-4.800E-03	-3.935E-03
90	-7.478E-03	-8.362E-03	-9.329E-03	-1.037E-02	-1.097E-02	-1.146E-02	-1.143E-02	-1.116E-02	-1.034E-02	-9.026E-03	-7.253E-03	-5.994E-03
120	-8.644E-03	-9.833E-03	-1.125E-02	-1.304E-02	-1.344E-02	-1.604E-02	-1.697E-02	-1.739E-02	-1.736E-02	-1.633E-02	-1.405E-02	-1.204E-02
150	-5.869E-03	-6.777E-03	-7.939E-03	-9.562E-03	-1.094E-02	-1.323E-02	-1.509E-02	-1.662E-02	-1.891E-02	-2.088E-02	-2.174E-02	-2.105E-02
179	-2.168E-04	-2.510E-04	-2.968E-04	-3.635E-04	-4.273E-04	-5.320E-04	-6.325E-04	-7.283E-04	-9.119E-04	-1.176E-03	-1.604E-03	-2.024E-03
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	7.601E-09	5.782E-09	4.671E-09	3.393E-09	2.409E-09	1.627E-09	1.229E-09	8.251E-10	6.212E-10	4.982E-10	3.568E-10	2.503E-10
2	-9.992E-04	-7.868E-08	-6.478E-08	-4.779E-08	-3.424E-08	-2.325E-08	-1.760E-08	-1.183E-08	-8.915E-09	-7.150E-09	-5.123E-09	-3.594E-09
3	-4.709E-07	-3.693E-07	-3.034E-07	-2.234E-07	-1.600E-07	-1.085E-07	-8.211E-08	-5.521E-08	-4.159E-08	-3.336E-08	-2.390E-08	-1.676E-08
4	-1.223E-06	-9.517E-07	-7.864E-07	-5.787E-07	-4.142E-07	-2.810E-07	-2.126E-07	-1.429E-07	-1.077E-07	-8.635E-08	-6.186E-08	-4.340E-08
6	-4.746E-06	-3.322E-06	-2.727E-06	-2.006E-06	-1.435E-06	-9.735E-07	-7.364E-07	-4.951E-07	-3.729E-07	-2.991E-07	-2.143E-07	-1.503E-07
8	-9.813E-06	-7.673E-06	-6.297E-06	-4.631E-06	-3.314E-06	-2.277E-06	-1.700E-06	-1.143E-06	-8.609E-07	-6.905E-07	-4.946E-07	-3.470E-07
10	-1.844E-05	-1.439E-05	-1.181E-05	-8.684E-06	-6.217E-06	-4.214E-06	-3.187E-06	-2.143E-06	-1.614E-06	-1.295E-06	-9.274E-07	-6.506E-07
15	-5.547E-05	-4.337E-05	-3.558E-05	-2.616E-05	-1.872E-05	-1.264E-05	-9.601E-06	-6.456E-06	-4.862E-06	-3.900E-06	-2.794E-06	-1.960E-06
20	-1.179E-04	-9.218E-05	-7.562E-05	-5.560E-05	-3.978E-05	-2.698E-05	-2.040E-05	-1.372E-05	-1.033E-05	-8.288E-06	-5.937E-06	-4.163E-06
30	-3.281E-04	-2.566E-04	-2.105E-04	-1.548E-04	-1.107E-04	-7.509E-05	-5.680E-05	-3.819E-05	-2.877E-05	-2.307E-05	-1.653E-05	-1.160E-05
45	-8.737E-04	-6.836E-04	-5.610E-04	-4.126E-04	-2.957E-04	-2.003E-04	-1.519E-04	-1.019E-04	-7.672E-05	-6.153E-05	-4.408E-05	-3.092E-05
60	-1.712E-03	-1.341E-03	-1.102E-03	-8.107E-04	-5.807E-04	-3.936E-04	-2.978E-04	-2.002E-04	-1.508E-04	-1.210E-04	-8.666E-05	-6.079E-05
75	-2.471E-03	-2.254E-03	-1.852E-03	-1.365E-03	-9.774E-04	-6.631E-04	-5.017E-04	-3.374E-04	-2.541E-04	-2.038E-04	-1.460E-04	-1.024E-04
90	-4.407E-03	-3.669E-03	-2.850E-03	-2.107E-03	-1.511E-03	-1.025E-03	-7.759E-04	-5.219E-04	-3.931E-04	-3.153E-04	-2.259E-04	-1.583E-04
120	-4.152E-03	-3.311E-03	-2.605E-03	-1.450E-03	-3.244E-03	-2.207E-03	-1.672E-03	-1.125E-03	-8.477E-04	-6.800E-04	-4.872E-04	-3.418E-04
150	-1.432E-02	-1.565E-02	-1.747E-02	-1.038E-02	-7.074E-03	-5.262E-03	-4.004E-03	-2.704E-03	-2.040E-03	-1.637E-03	-1.174E-03	-8.236E-04
179	-2.851E-03	-3.668E-03	-4.476E-03	-5.063E-03	-8.365E-03	-1.187E-02	-1.492E-02	-1.945E-02	-2.204E-02	-2.313E-02	-2.272E-02	-1.989E-02

N (7) SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM ENERGY (MEV)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	8.638E-04	1.233E-07	1.734E-07	2.326E-07	2.767E-07	3.001E-07	3.287E-07	3.381E-07	3.394E-07	3.329E-07	3.205E-07	3.031E-07
2	1.899E-07	5.547E-07	7.650E-07	9.967E-07	1.110E-06	1.177E-06	1.202E-06	1.191E-06	1.120E-06	1.043E-06	9.048E-07	7.901E-07
3	8.767E-07	1.480E-06	1.913E-06	2.318E-06	2.457E-06	2.476E-06	2.419E-06	2.259E-06	1.971E-06	1.725E-06	1.300E-06	9.640E-07
4	1.722E-06	2.876E-06	3.571E-06	4.042E-06	4.104E-06	4.023E-06	3.783E-06	3.282E-06	2.587E-06	2.018E-06	1.038E-06	3.291E-07
6	5.122E-06	7.361E-06	8.087E-06	8.202E-06	7.731E-06	7.097E-06	5.845E-06	4.205E-06	2.001E-06	2.576E-07	-2.412E-06	-4.422E-06
8	1.079E-05	1.326E-05	1.354E-05	1.229E-05	1.055E-05	8.820E-06	5.770E-06	2.049E-06	-2.702E-06	-6.379E-06	-1.194E-05	-1.608E-05
10	1.830E-05	1.908E-05	1.870E-05	1.494E-05	1.114E-05	7.729E-06	2.003E-06	-4.731E-06	-1.316E-05	-1.961E-05	-2.931E-05	-3.650E-05
15	3.946E-05	3.210E-05	2.727E-05	7.857E-06	-4.484E-06	-1.467E-05	-1.100E-05	-4.951E-05	-7.228E-05	-8.961E-05	-1.156E-04	-1.347E-04
20	5.073E-05	2.503E-05	3.137E-06	-3.051E-05	-5.375E-05	-7.605E-05	-1.081E-04	-1.442E-04	-1.887E-04	-2.272E-04	-2.736E-04	-3.113E-04
30	-1.411E-05	-9.403E-05	-1.532E-04	-2.364E-04	-2.948E-04	-3.450E-04	-4.213E-04	-5.083E-04	-6.166E-04	-7.002E-04	-8.269E-04	-9.213E-04
45	-4.319E-04	-6.031E-04	-7.221E-04	-8.914E-04	-1.016E-03	-1.118E-03	-1.282E-03	-1.474E-03	-1.718E-03	-1.911E-03	-2.207E-03	-2.431E-03
60	-1.194E-03	-1.434E-03	-1.605E-03	-1.855E-03	-2.046E-03	-2.205E-03	-2.467E-03	-2.781E-03	-3.190E-03	-3.518E-03	-4.030E-03	-4.425E-03
75	-2.898E-03	-2.382E-03	-2.591E-03	-2.908E-03	-3.157E-03	-3.336E-03	-3.724E-03	-4.158E-03	-4.734E-03	-5.202E-03	-5.946E-03	-6.530E-03
90	-2.903E-03	-3.210E-03	-3.444E-03	-3.808E-03	-4.101E-03	-4.353E-03	-4.782E-03	-5.313E-03	-6.029E-03	-6.618E-03	-7.572E-03	-8.336E-03
120	-3.496E-03	-3.794E-03	-4.028E-03	-4.402E-03	-4.709E-03	-4.977E-03	-5.442E-03	-6.027E-03	-6.835E-03	-7.515E-03	-8.649E-03	-9.593E-03
150	-2.346E-03	-2.538E-03	-2.488E-03	-2.930E-03	-3.130E-03	-3.306E-03	-3.611E-03	-4.000E-03	-4.544E-03	-5.009E-03	-5.802E-03	-6.800E-03
179	-8.557E-05	-9.256E-05	-9.803E-05	-1.068E-04	-1.141E-04	-1.205E-04	-1.316E-04	-1.458E-04	-1.659E-04	-1.835E-04	-2.125E-04	-2.380E-04
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	2.872E-07	2.598E-07	2.273E-07	1.881E-07	1.503E-07	1.236E-07	1.004E-07	8.464E-08	6.456E-08	4.789E-08	3.379E-08	2.626E-08
2	6.935E-07	5.391E-07	3.712E-07	1.889E-07	7.445E-08	-5.126E-08	-1.111E-07	-1.401E-07	-1.587E-07	-1.535E-07	-1.302E-07	-1.097E-07
3	6.894E-07	2.636E-07	-1.891E-07	-6.441E-07	-9.045E-07	-1.147E-06	-1.219E-06	-1.220E-06	-1.145E-06	-9.969E-07	-7.942E-07	-6.506E-07
4	-2.415E-07	-1.112E-06	-1.998E-06	-2.866E-06	-3.392E-06	-3.688E-06	-3.714E-06	-3.610E-06	-3.288E-06	-2.808E-06	-2.208E-06	-1.804E-06
6	-6.015E-06	-8.400E-06	-1.070E-05	-1.295E-05	-1.400E-05	-1.454E-05	-1.422E-05	-1.359E-05	-1.216E-05	-1.025E-05	-7.994E-06	-6.508E-06
8	-1.934E-05	-2.417E-05	-2.981E-05	-3.307E-05	-3.49 E-05	-3.544E-05	-3.420E-05	-3.253E-05	-2.889E-05	-2.424E-05	-1.883E-05	-1.531E-05
10	-4.214E-05	-5.045E-05	-5.843E-05	-6.538E-05	-6.821E-05	-6.842E-05	-6.575E-05	-6.221E-05	-5.503E-05	-4.605E-05	-3.571E-05	-2.901E-05
15	-1.497E-04	-1.716E-04	-1.924E-04	-2.096E-04	-2.177E-04	-2.134E-04	-2.037E-04	-1.919E-04	-1.690E-04	-1.410E-04	-1.091E-04	-8.852E-05
20	-3.408E-04	-3.838E-04	-4.241E-04	-4.569E-04	-4.775E-04	-4.599E-04	-4.376E-04	-4.118E-04	-3.620E-04	-3.017E-04	-2.333E-04	-1.892E-04
30	-9.953E-04	-1.104E-03	-1.205E-03	-1.287E-03	-1.172E-03	-1.286E-03	-1.223E-03	-1.150E-03	-1.011E-03	-8.430E-04	-6.521E-04	-5.291E-04
45	-2.609E-03	-2.872E-03	-3.125E-03	-3.335E-03	-3.406E-03	-3.356E-03	-3.204E-03	-3.024E-03	-2.672E-03	-2.237E-03	-1.736E-03	-1.411E-03
60	-4.742E-03	-5.224E-03	-5.702E-03	-6.131E-03	-6.305E-03	-6.288E-03	-6.059E-03	-5.758E-03	-5.135E-03	-4.335E-03	-3.387E-03	-2.761E-03
75	-7.009E-03	-7.755E-03	-8.530E-03	-9.287E-03	-9.600E-03	-9.813E-03	-9.588E-03	-9.210E-03	-8.336E-03	-7.127E-03	-5.628E-03	-4.612E-03
90	-8.975E-03	-9.997E-03	-1.111E-02	-1.230E-02	-1.290E-02	-1.353E-02	-1.348E-02	-1.314E-02	-1.216E-02	-1.060E-02	-8.509E-03	-7.029E-03
120	-1.041E-02	-1.180E-02	-1.345E-02	-1.552E-02	-1.703E-02	-1.900E-02	-2.006E-02	-2.053E-02	-2.046E-02	-1.921E-02	-1.650E-02	-1.413E-02
150	-2.084E-03	-8.147E-03	-9.510E-03	-1.141E-02	-1.303E-02	-1.572E-02	-1.791E-02	-1.970E-02	-2.237E-02	-2.467E-02	-2.563E-02	-2.477E-02
179	-2.610E-04	-3.020E-04	-3.550E-04	-4.343E-04	-5.049E-04	-6.332E-04	-7.520E-04	-8.653E-04	-1.003E-03	-1.396E-03	-1.902E-03	-2.400E-03
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	1.829E-08	1.408E-08	1.146E-08	8.363E-09	5.958E-09	4.030E-09	3.046E-09	2.047E-09	1.541E-09	1.236E-09	8.853E-10	6.211E-10
2	-8.185E-08	-6.478E-08	-5.346E-08	-3.953E-08	-2.837E-08	-1.927E-08	-1.459E-08	-9.814E-09	-7.393E-09	-5.930E-09	-4.248E-09	-2.980E-09
3	-4.769E-07	-3.744E-07	-3.078E-07	-2.268E-07	-1.624E-07	-1.027E-07	-8.313E-08	-5.607E-08	-4.223E-08	-3.387E-08	-2.427E-08	-1.698E-08
4	-1.313E-06	-1.029E-06	-8.449E-07	-6.219E-07	-4.452E-07	-3.020E-07	-2.285E-07	-1.536E-07	-1.157E-07	-9.282E-08	-6.649E-08	-4.665E-08
6	-4.720E-06	-3.694E-06	-3.033E-06	-2.231E-06	-1.597E-06	-1.083E-06	-8.192E-07	-5.508E-07	-4.149E-07	-3.328E-07	-2.384E-07	-1.672E-07
8	-1.109E-05	-8.675E-06	-7.119E-06	-5.236E-06	-3.747E-06	-2.541E-06	-1.922E-06	-1.292E-06	-9.734E-07	-7.807E-07	-5.593E-07	-3.924E-07
10	-2.103E-05	-1.642E-05	-1.347E-05	-9.909E-06	-7.090E-06	-4.808E-06	-3.637E-06	-2.445E-06	-1.842E-06	-1.477E-06	-1.058E-06	-7.424E-07
15	-6.402E-05	-5.006E-05	-4.107E-05	-3.020E-05	-2.160E-05	-1.465E-05	-1.109E-05	-7.451E-06	-5.612E-06	-4.501E-06	-3.224E-06	-2.262E-06
20	-1.768E-04	-1.070E-04	-8.775E-05	-6.452E-05	-4.616E-05	-3.130E-05	-2.368E-05	-1.592E-05	-1.199E-05	-9.617E-06	-6.889E-06	-4.833E-06
30	-3.827E-04	-2.992E-04	-2.455E-04	-1.805E-04	-1.291E-04	-8.758E-05	-6.624E-05	-4.454E-05	-3.355E-05	-2.691E-05	-1.928E-05	-1.352E-05
45	-1.022E-03	-7.996E-04	-6.562E-04	-4.826E-04	-3.454E-04	-2.342E-04	-1.772E-04	-1.191E-04	-8.973E-05	-7.197E-05	-5.156E-05	-3.617E-05
60	-2.006E-03	-1.571E-03	-1.299E-03	-9.493E-04	-6.745E-04	-4.609E-04	-3.487E-04	-2.344E-04	-1.766E-04	-1.416E-04	-1.015E-04	-7.118E-05
75	-3.365E-03	-2.640E-03	-2.170E-03	-1.599E-03	-1.165E-03	-7.768E-04	-5.877E-04	-3.952E-04	-2.977E-04	-2.388E-04	-1.711E-04	-1.200E-04
90	-5.156E-03	-4.066E-03	-3.347E-03	-2.469E-03	-1.770E-03	-1.201E-03	-9.092E-04	-6.115E-04	-4.606E-04	-3.694E-04	-2.647E-04	-1.857E-04
120	-1.073E-02	-8.571E-03	-7.109E-03	-5.282E-03	-3.801E-03	-2.587E-03	-1.959E-03	-1.318E-03	-9.933E-04	-7.968E-04	-5.709E-04	-4.005E-04
150	-2.153E-02	-1.837E-02	-1.580E-02	-1.217E-02	-8.751E-03	-6.167E-03	-4.692E-03	-3.168E-03	-2.390E-03	-1.918E-03	-1.375E-03	-9.651E-04
179	-3.380E-03	-4.349E-03	-5.706E-03	-7.186E-03	-9.900E-03	-1.406E-02	-1.766E-02	-2.300E-02	-2.602E-02	-2.727E-02	-2.674E-02	-2.337E-02

ENERGY (MEV)

SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM

0 (8)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	4.571E-09	1.275E-07	1.607E-07	2.550E-07	3.132E-07	3.525E-07	4.021E-07	4.280E-07	4.469E-07	4.391E-07	4.306E-07	4.115E-07
2	4.442E-07	5.184E-07	7.411E-07	1.122E-06	1.376E-06	1.448E-06	1.546E-06	1.561E-06	1.547E-06	1.447E-06	1.306E-06	1.165E-06
3	5.918E-07	1.367E-06	1.954E-06	2.708E-06	3.038E-06	3.166E-06	3.230E-06	3.109E-06	2.897E-06	2.546E-06	2.060E-06	1.668E-06
4	1.212E-06	2.833E-06	3.811E-06	4.939E-06	5.273E-06	5.353E-06	5.191E-06	4.743E-06	3.998E-06	3.363E-06	2.283E-06	1.441E-06
6	1.198E-06	7.817E-06	9.620E-06	1.076E-05	1.067E-05	1.020E-05	9.005E-06	7.146E-06	4.605E-06	2.553E-06	6.178E-07	3.010E-06
8	1.043E-05	1.555E-05	1.738E-05	1.735E-05	1.592E-05	1.415E-05	1.079E-05	6.457E-06	8.167E-07	3.572E-06	1.207E-05	1.512E-05
10	1.945E-05	2.519E-05	2.592E-05	2.314E-05	1.923E-05	1.542E-05	8.938E-06	5.938E-07	9.440E-06	1.715E-05	2.873E-05	3.727E-05
15	5.166E-05	4.938E-05	4.128E-05	2.111E-05	9.482E-06	3.012E-06	2.294E-06	4.559E-05	7.311E-05	9.385E-05	1.246E-04	1.472E-04
20	8.098E-05	5.618E-05	3.094E-05	1.011E-05	4.158E-05	6.912E-05	1.066E-04	1.508E-04	2.044E-04	2.448E-04	3.048E-04	3.490E-04
30	4.758E-05	5.325E-05	1.284E-04	2.356E-04	3.125E-04	3.730E-04	4.671E-04	1.508E-04	7.012E-04	7.994E-04	9.468E-04	1.056E-03
45	-1.03E-04	-6.395E-04	7.965E-04	1.014E-03	1.171E-03	1.296E-03	1.493E-03	1.721E-03	-2.006E-03	-2.229E-03	-2.569E-03	-2.825E-03
60	-1.344E-03	1.664E-03	1.885E-03	2.200E-03	2.473E-03	2.623E-03	2.933E-03	3.298E-03	-3.770E-03	-4.145E-03	-4.729E-03	-5.177E-03
75	-2.494E-03	-2.863E-03	3.120E-03	3.514E-03	-3.812E-03	-4.061E-03	-4.470E-03	-4.973E-03	-5.632E-03	-6.164E-03	-7.010E-03	-7.672E-03
90	-3.564E-03	-3.924E-03	-4.211E-03	-4.648E-03	-4.993E-03	-5.286E-03	-5.748E-03	-6.388E-03	-7.203E-03	-7.873E-03	-8.955E-03	-9.842E-03
120	-4.329E-03	-4.695E-03	-4.971E-03	-5.420E-03	-5.777E-03	-6.086E-03	-6.618E-03	-7.289E-03	-8.205E-03	-8.979E-03	-1.027E-02	-1.134E-02
150	-2.912E-03	-3.149E-03	-3.331E-03	-3.617E-03	-3.650E-03	-4.052E-03	-4.403E-03	-4.847E-03	-5.467E-03	-5.998E-03	-6.903E-03	-7.673E-03
179	-1.062E-04	-1.149E-04	-1.215E-04	-1.319E-04	-1.404E-04	-1.478E-04	-1.606E-04	-1.768E-04	-1.986E-04	-2.193E-04	-2.530E-04	-2.823E-04

DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E-00	1.5E-00	2.0E-00
1	3.934E-07	3.611E-07	3.215E-07	2.724E-07	2.367E-07	1.881E-07	1.565E-07	1.343E-07	1.051E-07	7.986E-08	5.750E-08	4.513E-08
2	1.051E-06	8.657E-07	6.610E-07	4.335E-07	2.870E-07	1.170E-07	2.888E-08	-2.008E-08	-6.473E-08	-8.209E-08	-7.883E-08	-6.939E-08
3	1.581E-07	2.891E-07	2.501E-07	2.173E-07	-3.070E-07	-9.403E-07	1.065E-06	-1.099E-06	-1.063E-06	-9.434E-07	-7.608E-07	-6.284E-07
4	7.581E-07	-2.891E-07	-1.367E-06	-2.444E-06	-3.046E-06	3.553E-06	-3.659E-06	-3.601E-06	-3.322E-06	-2.861E-06	-2.262E-06	-1.853E-06
6	-4.909E-06	-7.759E-06	-1.060E-05	-1.327E-05	-1.446E-05	1.541E-05	-1.518E-05	-1.457E-05	-1.310E-05	-1.08E-05	-8.659E-06	-7.058E-06
8	-1.900E-05	-2.475E-05	-3.035E-05	-3.543E-05	-3.74E-05	3.864E-05	-1.751E-05	-3.571E-05	-3.179E-05	-2.673E-05	-2.079E-05	-1.691E-05
10	-4.395E-05	-5.378E-05	-6.325E-05	-7.158E-05	-7.509E-05	7.573E-05	-7.296E-05	-6.915E-05	-6.117E-05	-5.133E-05	-3.984E-05	-3.237E-05
15	-1.648E-04	-1.905E-04	-2.148E-04	-2.351E-04	-2.424E-04	2.404E-04	-2.292E-04	-2.165E-04	-1.907E-04	-1.592E-04	-1.232E-04	-1.000E-04
20	-3.833E-04	-4.332E-04	-4.800E-04	-5.180E-04	-5.305E-04	4.971E-04	-4.677E-04	-4.112E-04	-3.427E-04	-2.650E-04	-1.651E-04	-6.043E-04
30	-1.141E-03	-1.265E-03	-1.382E-03	-1.474E-03	-1.502E-03	1.472E-03	-1.399E-03	-1.315E-03	-1.156E-03	-9.674E-04	-7.451E-04	-6.043E-04
45	-3.027E-03	-3.327E-03	-3.612E-03	-3.847E-03	-3.927E-03	3.859E-03	-3.752E-03	-3.472E-03	-3.085E-03	-2.565E-03	-1.990E-03	-1.617E-03
60	-5.537E-03	-6.081E-03	-6.614E-03	-7.094E-03	-7.285E-03	7.249E-03	-6.977E-03	-6.625E-03	-5.902E-03	-4.978E-03	-3.887E-03	-3.169E-03
75	-8.214E-03	-9.056E-03	-9.828E-03	-1.077E-02	-1.114E-02	1.133E-02	-1.106E-02	-1.061E-02	-9.591E-03	-8.193E-03	-6.465E-03	-5.293E-03
90	-1.055E-02	-1.170E-02	-1.296E-02	-1.430E-02	-1.504E-02	1.565E-02	-1.556E-02	-1.516E-02	-1.400E-02	-1.219E-02	-9.779E-03	-8.074E-03
120	-1.228E-02	-1.385E-02	-1.574E-02	-1.810E-02	-1.982E-02	2.204E-02	-2.373E-02	-2.374E-02	-2.362E-02	-2.213E-02	-1.899E-02	-1.624E-02
150	-8.372E-03	-9.591E-03	-1.116E-02	-1.335E-02	-1.521E-02	2.801E-02	-2.081E-02	-2.287E-02	-2.593E-02	-2.854E-02	-2.959E-02	-2.858E-02
179	-3.086E-04	-3.558E-04	-4.178E-04	-5.084E-04	-5.699E-04	7.383E-04	-8.759E-04	-1.007E-03	-1.259E-03	-1.622E-03	-2.210E-03	-2.788E-03

DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	3.171E-08	2.450E-08	1.998E-08	1.461E-08	1.042E-08	7.052E-09	5.331E-09	3.583E-09	2.698E-09	2.164E-09	1.550E-09	1.087E-09
2	-3.49E-08	-4.286E-08	-3.554E-08	-2.646E-08	-1.905E-08	1.297E-08	-9.820E-09	-6.609E-09	-4.979E-09	-3.994E-09	-2.862E-09	-2.008E-09
3	4.610E-07	3.625E-07	2.983E-07	2.199E-07	-1.574E-07	1.069E-07	-8.092E-08	-5.442E-08	-4.099E-08	-3.268E-08	-2.355E-08	-1.652E-08
4	-1.331E-06	-1.059E-06	-8.703E-07	-6.410E-07	-4.598E-07	3.114E-07	-2.356E-07	-1.584E-07	-1.193E-07	-9.571E-08	-6.856E-08	-4.810E-08
6	-5.12E-06	-4.010E-06	-3.292E-06	-2.422E-06	-1.734E-06	1.176E-06	-8.895E-07	-5.982E-07	-4.505E-07	-3.614E-07	-2.589E-07	-1.816E-07
8	-2.344E-05	-1.833E-05	-1.504E-05	-1.06E-05	-7.914E-06	5.368E-06	-4.061E-06	-1.429E-06	-1.076E-06	-8.632E-07	-6.184E-07	-4.338E-07
10	-2.233E-05	-1.556E-05	-1.440E-05	-1.12E-05	-2.441E-05	1.655E-05	-1.252E-05	-8.473E-06	-6.341E-06	-5.086E-06	-1.182E-06	-8.290E-07
20	-1.555E-04	-1.215E-04	-9.971E-05	-7.331E-05	-5.245E-05	3.557E-05	-2.690E-05	-1.809E-05	-1.362E-05	-1.093E-05	-7.828E-06	-5.459E-06
30	-4.372E-04	-3.418E-04	-2.404E-04	-2.062E-04	-1.475E-04	7.566E-05	-5.087E-05	-3.832E-05	-3.832E-05	-3.073E-05	-2.202E-05	-1.545E-05
45	-1.17E-03	-9.16E-04	-7.518E-04	-5.529E-04	-3.957E-04	2.683E-04	-2.030E-04	-1.365E-04	-1.028E-04	-8.245E-05	-5.906E-05	-4.145E-05
60	-3.301E-03	-1.862E-03	-1.480E-03	-1.089E-03	-7.971E-04	5.286E-04	-3.999E-04	-2.689E-04	-2.051E-04	-1.624E-04	-1.164E-04	-8.164E-05
75	-8.62E-03	-3.031E-03	-2.491E-03	-1.835E-03	-1.314E-03	8.914E-04	-7.744E-04	-4.535E-04	-3.416E-04	-2.740E-04	-1.963E-04	-1.377E-04
90	-5.931E-03	-4.668E-03	-3.843E-03	-2.834E-03	-2.011E-03	1.379E-03	-1.043E-03	-7.018E-04	-5.286E-04	-4.240E-04	-3.038E-04	-2.131E-04
120	-1.233E-02	-9.843E-03	-8.163E-03	-6.064E-03	-4.364E-03	2.969E-03	-2.249E-03	-1.513E-03	-1.140E-03	-9.166E-04	-6.552E-04	-4.559E-04
150	-2.478E-02	-2.112E-02	-1.816E-02	-1.398E-02	-1.029E-02	7.079E-03	-5.386E-03	-3.637E-03	-2.743E-03	-2.202E-03	-1.578E-03	-1.108E-03
179	-3.926E-03	-5.050E-03	-6.162E-03	-8.344E-03	-1.149E-02	1.631E-02	-2.048E-02	-2.664E-02	-3.010E-02	-3.151E-02	-3.083E-02	-2.690E-02

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	8.309E-08	1.190E-07	1.516E-07	2.529E-07	3.357E-07	3.835E-07	4.574E-07	5.221E-07	5.480E-07	5.614E-07	5.416E-07	5.334E-07
2	2.861E-07	4.029E-07	6.450E-07	1.148E-06	1.446E-06	1.643E-06	1.849E-06	1.961E-06	1.966E-06	1.902E-06	1.746E-06	1.600E-06
3	4.763E-07	1.122E-06	1.867E-06	2.928E-06	3.439E-06	3.819E-06	4.034E-06	4.070E-06	3.828E-06	3.507E-06	2.972E-06	2.522E-06
4	7.853E-07	2.295E-06	3.771E-06	5.563E-06	6.304E-06	6.660E-06	6.754E-06	6.462E-06	5.641E-06	4.954E-06	3.728E-06	2.753E-06
6	2.637E-06	7.330E-06	1.036E-05	1.300E-05	1.364E-05	1.351E-05	1.251E-05	1.062E-05	7.820E-06	5.460E-06	1.776E-06	1.020E-06
8	7.765E-06	1.618E-05	2.024E-05	2.239E-05	2.171E-05	2.062E-05	1.722E-05	1.196E-05	5.450E-06	3.258E-07	7.436E-06	1.321E-05
10	1.731E-05	3.248E-05	3.229E-05	3.187E-05	2.850E-05	2.633E-05	1.672E-05	7.922E-06	3.953E-06	1.305E-05	5.266E-06	3.662E-05
15	5.879E-05	6.133E-05	6.111E-05	4.410E-05	2.752E-05	1.303E-05	1.069E-05	3.717E-05	7.054E-05	5.903E-05	1.311E-04	1.574E-04
20	1.093E-04	9.199E-05	6.604E-05	1.862E-05	1.295E-05	5.005E-05	9.827E-05	1.516E-04	2.154E-04	2.629E-04	1.328E-04	3.838E-04
30	1.263E-04	9.688E-06	8.745E-05	2.177E-04	3.137E-04	3.886E-04	5.827E-05	1.516E-04	2.154E-04	2.629E-04	1.328E-04	3.838E-04
45	3.435E-04	6.402E-04	8.429E-04	1.120E-03	1.317E-03	1.467E-03	1.704E-03	1.970E-03	2.300E-03	2.554E-03	2.940E-03	3.228E-03
60	1.451E-03	1.469E-03	2.152E-03	2.545E-03	2.898E-03	3.055E-03	3.418E-03	3.876E-03	4.376E-03	4.800E-03	5.456E-03	5.957E-03
75	2.878E-03	3.349E-03	3.470E-03	4.151E-03	4.504E-03	4.795E-03	5.272E-03	5.840E-03	6.583E-03	7.181E-03	8.127E-03	8.866E-03
90	4.193E-03	4.676E-03	5.027E-03	5.549E-03	5.951E-03	6.289E-03	6.853E-03	7.540E-03	8.456E-03	9.206E-03	1.042E-02	1.138E-02
120	5.275E-03	5.669E-03	6.008E-03	6.525E-03	6.798E-03	7.292E-03	7.895E-03	8.647E-03	9.678E-03	1.054E-02	1.199E-02	1.320E-02
150	3.523E-03	3.810E-03	4.028E-03	4.365E-03	4.634E-03	4.866E-03	5.264E-03	5.765E-03	6.462E-03	7.059E-03	8.078E-03	8.952E-03
179	1.284E-04	1.390E-04	1.476E-04	1.593E-04	1.691E-04	1.775E-04	1.921E-04	2.104E-04	2.361E-04	2.582E-04	2.962E-04	3.293E-04
5.0E-02	7.9E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00	
DEG	5.139E-07	4.772E-07	4.305E-07	3.707E-07	3.252E-07	2.643E-07	2.231E-07	1.935E-07	1.537E-07	1.142E-07	8.597E-08	6.782E-08
1	1.470E-06	1.255E-06	1.011E-06	7.340E-07	5.511E-07	3.308E-07	2.092E-07	1.363E-07	5.952E-08	1.352E-08	9.245E-09	1.448E-08
2	1.470E-06	1.255E-06	1.011E-06	7.340E-07	5.511E-07	3.308E-07	2.092E-07	1.363E-07	5.952E-08	1.352E-08	9.245E-09	1.448E-08
3	1.470E-06	1.255E-06	1.011E-06	7.340E-07	5.511E-07	3.308E-07	2.092E-07	1.363E-07	5.952E-08	1.352E-08	9.245E-09	1.448E-08
4	1.956E-06	1.737E-06	1.571E-06	1.859E-06	2.062E-06	2.289E-06	2.490E-06	2.701E-06	2.849E-06	2.849E-06	2.665E-06	1.861E-06
6	3.246E-06	2.546E-06	2.107E-06	3.116E-06	3.490E-06	3.890E-06	4.312E-06	4.755E-06	5.222E-06	5.712E-06	6.222E-06	6.755E-06
8	1.774E-05	2.448E-05	3.107E-05	3.711E-05	4.395E-05	5.132E-05	5.930E-05	6.822E-05	7.812E-05	8.902E-05	1.010E-04	1.133E-04
10	4.422E-05	5.590E-05	6.698E-05	7.681E-05	8.110E-05	8.230E-05	7.953E-05	7.550E-05	6.702E-05	5.623E-05	4.368E-05	3.550E-05
15	1.778E-04	2.075E-04	2.355E-04	2.591E-04	2.879E-04	3.262E-04	3.546E-04	3.832E-04	4.118E-04	4.404E-04	4.690E-04	4.976E-04
20	2.327E-04	4.805E-04	5.340E-04	5.770E-04	6.197E-04	6.622E-04	7.046E-04	7.469E-04	7.892E-04	8.315E-04	8.738E-04	9.161E-04
30	1.286E-03	1.427E-03	1.558E-03	1.662E-03	1.767E-03	1.872E-03	1.977E-03	2.082E-03	2.187E-03	2.292E-03	2.397E-03	2.502E-03
45	3.366E-03	3.790E-03	4.107E-03	4.366E-03	4.647E-03	4.928E-03	5.209E-03	5.490E-03	5.771E-03	6.052E-03	6.333E-03	6.614E-03
60	6.359E-03	6.964E-03	7.560E-03	8.083E-03	8.644E-03	9.244E-03	9.883E-03	1.056E-02	1.128E-02	1.200E-02	1.272E-02	1.344E-02
75	9.470E-03	1.041E-02	1.137E-02	1.230E-02	1.324E-02	1.418E-02	1.512E-02	1.606E-02	1.700E-02	1.794E-02	1.888E-02	1.982E-02
90	1.219E-02	1.348E-02	1.486E-02	1.636E-02	1.719E-02	1.781E-02	1.769E-02	1.721E-02	1.686E-02	1.651E-02	1.616E-02	1.581E-02
120	1.424E-02	1.601E-02	1.813E-02	2.077E-02	2.269E-02	2.517E-02	2.647E-02	2.703E-02	2.684E-02	2.510E-02	2.151E-02	1.836E-02
150	9.733E-03	1.111E-02	1.280E-02	1.536E-02	1.766E-02	2.097E-02	2.381E-02	2.617E-02	2.958E-02	3.251E-02	3.364E-02	3.241E-02
179	3.591E-04	4.124E-04	4.628E-04	5.856E-04	6.781E-04	8.473E-04	1.004E-03	1.154E-03	1.441E-03	1.856E-03	2.528E-03	3.180E-03
3.0E+00	4.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
DEG	4.787E-08	3.705E-08	3.024E-08	2.213E-08	1.579E-08	1.069E-08	8.084E-09	5.433E-09	4.092E-09	3.242E-09	2.351E-09	1.649E-09
1	1.472E-08	1.285E-08	1.110E-08	8.536E-09	6.241E-09	4.304E-09	2.722E-09	1.665E-09	1.065E-09	6.655E-10	4.174E-10	2.525E-10
2	4.229E-07	3.333E-07	2.749E-07	2.027E-07	1.453E-07	9.866E-08	7.466E-08	5.022E-08	3.783E-08	2.714E-08	1.957E-08	1.352E-08
3	1.360E-06	1.068E-06	8.777E-07	6.466E-07	4.631E-07	3.142E-07	2.377E-07	1.599E-07	1.204E-07	9.659E-08	6.919E-08	4.854E-08
4	5.449E-06	4.268E-06	3.503E-06	2.579E-06	1.846E-06	1.252E-06	9.473E-07	6.370E-07	4.798E-07	3.848E-07	2.757E-07	1.934E-07
6	1.330E-05	1.041E-05	8.546E-06	6.287E-06	4.409E-06	3.051E-06	2.308E-06	1.552E-06	1.169E-06	9.376E-07	6.717E-07	4.712E-07
8	2.571E-05	2.012E-05	1.651E-05	1.214E-05	8.688E-06	5.892E-06	4.457E-06	2.997E-06	2.257E-06	1.810E-06	1.297E-06	9.093E-07
10	4.048E-05	3.245E-05	2.615E-05	1.973E-05	1.414E-05	9.840E-06	7.392E-06	5.359E-06	4.092E-06	3.242E-06	2.351E-06	1.649E-06
15	8.048E-05	6.287E-05	5.158E-05	3.793E-05	2.815E-05	1.977E-05	1.392E-05	1.065E-05	8.092E-06	6.554E-06	4.050E-06	2.841E-06
20	1.738E-04	1.359E-04	1.115E-04	8.197E-05	5.845E-05	3.977E-05	2.700E-05	1.840E-05	1.222E-05	8.753E-06	6.141E-06	4.268E-06
30	4.915E-04	3.642E-04	3.152E-04	2.318E-04	1.658E-04	1.124E-04	8.506E-05	5.719E-05	4.308E-05	3.455E-05	2.475E-05	1.736E-05
45	1.321E-03	1.033E-03	8.478E-04	6.235E-04	4.464E-04	3.026E-04	2.289E-04	1.539E-04	1.159E-04	9.297E-05	6.660E-05	4.672E-05
60	2.598E-03	2.035E-03	1.671E-03	1.229E-03	8.709E-04	5.968E-04	4.515E-04	3.036E-04	2.287E-04	1.834E-04	1.314E-04	9.217E-05
75	4.364E-03	3.424E-03	2.814E-03	2.072E-03	1.484E-03	1.007E-03	7.618E-04	5.123E-04	3.859E-04	3.095E-04	2.217E-04	1.553E-04
90	6.704E-03	5.275E-03	4.342E-03	3.202E-03	2.295E-03	1.558E-03	1.174E-03	7.928E-04	5.972E-04	4.790E-04	3.432E-04	2.408E-04
120	1.394E-02	1.113E-02	9.220E-03	6.852E-03	4.971E-03	3.355E-03	2.541E-03	1.710E-03	1.288E-03	1.033E-03	7.403E-04	5.194E-04
150	2.807E-02	2.390E-02	2.054E-02	1.580E-02	1.162E-02	8.000E-03	6.046E-03	4.109E-03	3.100E-03	2.488E-03	1.783E-03	1.251E-03
179	4.489E-03	5.774E-03	7.044E-03	9.537E-03	1.317E-02	1.863E-02	2.338E-02	3.037E-02	3.477E-02	3.583E-02	3.499E-02	3.048E-02

NE (10)		SHEPMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM							ENERGY (MEV)				
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
DEG													
1	1.132E-07	1.466E-07	1.720E-07	2.421E-07	3.437E-07	4.162E-07	5.193E-07	6.048E-07	6.640E-07	6.750E-07	6.832E-07	6.674E-07	
2	3.201E-07	3.621E-07	6.240E-07	1.091E-06	1.538E-06	1.793E-06	2.166E-06	2.341E-06	2.435E-06	2.396E-06	2.249E-06	2.094E-06	
3	5.452E-07	8.442E-07	1.600E-06	2.924E-06	3.816E-06	4.257E-06	4.849E-06	5.021E-06	4.852E-06	4.582E-06	4.018E-06	3.519E-06	
4	6.225E-07	1.706E-06	3.353E-06	5.712E-06	7.110E-06	7.845E-06	9.296E-06	8.229E-06	7.511E-06	6.731E-06	5.386E-06	4.285E-06	
6	1.088E-06	5.924E-06	1.009E-05	1.459E-05	1.635E-05	1.682E-05	1.635E-05	1.460E-05	1.160E-05	8.971E-06	4.774E-06	1.558E-06	
8	4.125E-06	1.482E-05	2.149E-05	2.683E-05	2.759E-05	2.672E-05	2.356E-05	1.850E-05	1.120E-05	5.334E-06	-3.614E-06	-1.028E-05	
10	1.211E-05	2.887E-05	3.683E-05	4.053E-05	3.855E-05	3.503E-05	2.730E-05	1.693E-05	3.295E-06	-2.297E-05	-3.452E-05		
15	5.837E-05	7.972E-05	8.089E-05	6.691E-05	4.953E-05	3.333E-05	5.930E-06	-2.576E-05	-6.428E-05	-9.287E-05	-1.347E-04	-1.650E-04	
20	1.303E-04	1.291E-04	1.063E-04	5.528E-05	1.145E-05	-2.498E-05	-3.244E-05	-1.458E-04	-2.209E-04	-2.763E-04	-3.570E-04	-4.154E-04	
30	2.159E-04	9.086E-05	-1.765E-05	-1.806E-04	-2.982E-04	-3.896E-04	-5.282E-04	-6.782E-04	-8.554E-04	-9.868E-04	-1.180E-03	-1.321E-03	
45	-2.280E-04	-5.991E-04	-8.549E-04	-1.202E-03	-1.441E-03	-1.625E-03	-1.908E-03	-2.219E-03	-2.598E-03	-2.886E-03	-3.319E-03	-3.640E-03	
60	-1.504E-03	-2.040E-03	-2.397E-03	-2.883E-03	-3.225E-03	-3.495E-03	-3.918E-03	-4.401E-03	-5.007E-03	-5.481E-03	-6.211E-03	-6.766E-03	
75	-3.235E-03	-3.831E-03	-4.230E-03	-4.810E-03	-5.229E-03	-5.567E-03	-6.113E-03	-6.755E-03	-7.586E-03	-8.250E-03	-9.297E-03	-1.011E-02	
90	-4.867E-03	-5.459E-03	-5.853E-03	-6.502E-03	-6.970E-03	-7.358E-03	-7.998E-03	-8.768E-03	-9.786E-03	-1.062E-02	-1.195E-02	-1.302E-02	
120	-6.179E-03	-6.710E-03	-7.108E-03	-7.714E-03	-8.189E-03	-8.591E-03	-9.269E-03	-1.011E-02	-1.125E-02	-1.221E-02	-1.382E-02	-1.515E-02	
150	-4.174E-03	-4.518E-03	-4.771E-03	-5.171E-03	-5.481E-03	-5.745E-03	-6.193E-03	-6.753E-03	-7.530E-03	-8.193E-03	-9.326E-03	-1.030E-02	
179	-1.527E-04	-1.648E-04	-1.743E-04	-1.867E-04	-2.009E-04	-2.097E-04	-2.261E-04	-2.466E-04	-2.753E-04	-2.999E-04	-3.423E-04	-3.791E-04	
		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
DEG													
1	6.477E-07	6.075E-07	5.537E-07	4.828E-07	4.289E-07	3.522E-07	3.000E-07	2.620E-07	2.100E-07	1.628E-07	1.192E-07	9.433E-08	
2	1.950E-06	1.704E-06	1.420E-06	1.090E-06	8.672E-07	5.902E-07	4.302E-07	3.293E-07	2.143E-07	1.336E-07	7.867E-08	5.510E-08	
3	3.091E-06	2.402E-06	1.650E-06	8.361E-07	3.282E-07	-2.312E-07	-4.955E-07	-6.234E-07	-7.045E-07	-6.803E-07	-5.768E-07	-4.859E-07	
4	3.374E-06	1.932E-06	4.561E-07	-1.089E-06	-1.993E-06	-2.817E-06	-3.192E-06	-3.261E-06	-3.122E-06	-2.754E-06	-2.212E-06	-1.823E-06	
6	-1.012E-06	-4.896E-06	-8.809E-06	-1.260E-05	-1.446E-05	-1.612E-05	-1.621E-05	-1.574E-05	-1.431E-05	-1.221E-05	-9.595E-06	-7.837E-06	
8	-1.553E-05	-2.332E-05	-3.098E-05	-3.808E-05	-4.155E-05	-4.365E-05	-4.262E-05	-4.080E-05	-3.656E-05	-3.088E-05	-2.409E-05	-1.962E-05	
10	-4.353E-05	-5.678E-05	-6.959E-05	-8.108E-05	-8.623E-05	-8.813E-05	-8.545E-05	-8.128E-05	-7.230E-05	-6.075E-05	-4.742E-05	-3.841E-05	
15	-1.884E-04	-2.224E-04	-2.544E-04	-2.815E-04	-2.910E-04	-2.909E-04	-2.785E-04	-2.630E-04	-2.321E-04	-1.939E-04	-1.502E-04	-1.219E-04	
20	-4.603E-04	-5.254E-04	-5.860E-04	-6.354E-04	-6.590E-04	-6.430E-04	-6.126E-04	-5.767E-04	-5.073E-04	-4.229E-04	-3.271E-04	-2.653E-04	
30	-1.430E-03	-1.588E-03	-1.733E-03	-1.849E-03	-1.889E-03	-1.862E-03	-1.750E-03	-1.644E-03	-1.444E-03	-1.203E-03	-9.302E-04	-7.540E-04	
45	-3.893E-03	-4.263E-03	-4.611E-03	-4.893E-03	-4.977E-03	-4.881E-03	-4.648E-03	-4.379E-03	-3.860E-03	-3.226E-03	-2.501E-03	-2.032E-03	
60	-7.209E-03	-7.874E-03	-8.525E-03	-9.091E-03	-9.301E-03	-9.218E-03	-8.849E-03	-8.389E-03	-7.460E-03	-6.282E-03	-4.900E-03	-3.992E-03	
75	-1.078E-02	-1.180E-02	-1.280E-02	-1.387E-02	-1.434E-02	-1.446E-02	-1.407E-02	-1.347E-02	-1.215E-02	-1.036E-02	-8.161E-03	-6.680E-03	
90	-1.391E-02	-1.533E-02	-1.680E-02	-1.848E-02	-1.938E-02	-2.002E-02	-1.985E-02	-1.929E-02	-1.777E-02	-1.544E-02	-1.236E-02	-1.019E-02	
120	-1.631E-02	-1.827E-02	-2.062E-02	-2.354E-02	-2.566E-02	-2.839E-02	-2.980E-02	-3.038E-02	-3.011E-02	-2.812E-02	-2.406E-02	-2.054E-02	
150	-1.117E-02	-1.260E-02	-1.460E-02	-1.745E-02	-1.980E-02	-2.373E-02	-2.690E-02	-2.949E-02	-3.333E-02	-3.656E-02	-3.774E-02	-3.632E-02	
179	-4.123E-04	-4.719E-04	-5.507E-04	-6.661E-04	-7.702E-04	-9.603E-04	-1.137E-03	-1.306E-03	-1.630E-03	-2.098E-03	-2.855E-03	-3.600E-03	
		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
DEG													
1	6.675E-08	5.173E-08	4.225E-08	3.093E-08	2.208E-08	1.495E-08	1.130E-08	7.598E-09	5.722E-09	4.589E-09	3.287E-09	2.306E-09	
2	3.453E-07	2.532E-08	2.008E-08	1.429E-08	1.003E-08	6.731E-09	5.071E-09	3.400E-09	2.558E-09	2.051E-09	1.468E-09	1.030E-09	
3	-3.623E-07	-2.867E-07	-2.360E-07	-1.749E-07	-1.256E-07	-8.529E-08	-6.455E-08	-4.342E-08	-3.271E-08	-2.624E-08	-1.880E-08	-1.319E-08	
4	-1.336E-06	-1.050E-06	-8.637E-07	-6.368E-07	-4.562E-07	-3.096E-07	-2.342E-07	-1.575E-07	-1.187E-07	-9.518E-08	-6.818E-08	-4.783E-08	
6	-5.708E-06	-4.466E-06	-3.668E-06	-2.700E-06	-1.973E-06	-1.311E-06	-9.919E-07	-6.670E-07	-5.024E-07	-4.029E-07	-2.887E-07	-2.025E-07	
8	-1.123E-05	-1.114E-05	-9.146E-06	-6.729E-06	-4.816E-06	-3.266E-06	-2.471E-06	-1.661E-06	-1.251E-06	-1.004E-06	-7.190E-07	-5.044E-07	
10	-2.783E-05	-2.177E-05	-1.787E-05	-1.314E-05	-9.406E-06	-6.379E-06	-4.825E-06	-3.245E-06	-2.444E-06	-1.960E-06	-1.404E-06	-9.851E-07	
15	-8.820E-05	-6.897E-05	-5.657E-05	-4.161E-05	-2.977E-05	-2.019E-05	-1.527E-05	-1.027E-05	-7.735E-06	-6.204E-06	-4.444E-06	-3.118E-06	
20	-1.919E-04	-1.500E-04	-1.231E-04	-9.049E-05	-6.474E-05	-4.390E-05	-3.321E-05	-2.233E-05	-1.682E-05	-1.349E-05	-9.662E-06	-6.779E-06	
30	-5.456E-04	-4.265E-04	-3.499E-04	-2.373E-04	-1.641E-04	-1.248E-04	-8.442E-05	-6.348E-05	-4.782E-05	-3.835E-05	-2.747E-05	-1.927E-05	
45	-1.471E-03	-1.151E-03	-9.441E-04	-6.344E-04	-4.946E-04	-3.369E-04	-2.549E-04	-1.714E-04	-1.291E-04	-1.035E-04	-7.416E-05	-5.203E-05	
60	-2.897E-03	-2.269E-03	-1.863E-03	-1.371E-03	-9.810E-04	-6.654E-04	-4.033E-04	-3.385E-04	-2.549E-04	-2.045E-04	-1.465E-04	-1.028E-04	
75	-4.865E-03	-3.820E-03	-3.139E-03	-2.312E-03	-1.655E-03	-1.123E-03	-8.497E-04	-7.714E-04	-4.304E-04	-3.457E-04	-2.473E-04	-1.735E-04	
90	-7.482E-03	-5.887E-03	-4.845E-03	-3.573E-03	-2.561E-03	-1.738E-03	-1.315E-03	-8.846E-04	-6.663E-04	-5.345E-04	-3.829E-04	-2.686E-04	
120	-1.557E-02	-1.242E-02	-1.030E-02	-7.647E-03	-5.599E-03	-3.743E-03	-2.835E-03	-1.908E-03	-1.437E-03	-1.153E-03	-8.261E-04	-5.790E-04	
150	-3.149E-02	-2.294E-02	-1.765E-02	-1.297E-02	-8.928E-03	-6.791E-03	-4.585E-03	-3.459E-03	-2.776E-03	-2.197E-03	-1.396E-03	-1.396E-03	
179	-5.069E-03	-6.519E-03	-7.952E-03	-1.077E-02	-1.482E-02	-2.102E-02	-2.636E-02	-3.419E-02	-3.853E-02	-4.023E-02	-3.922E-02	-3.610E-02	

NA (11) SHEKHYAN FUNCTION, WEGMEE OF POLARIZATION OF A SCATTERED ELECTRON BEAM ENERGY (MEV)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	1.055E-07	1.622E-07	1.514E-07	2.510E-07	3.425E-07	4.219E-07	5.476E-07	6.725E-07	7.704E-07	7.976E-07	8.225E-07	8.006E-07
2	1.352E-07	4.278E-07	1.921E-07	9.921E-07	1.945E-06	1.843E-06	2.408E-06	2.745E-06	2.907E-06	2.898E-06	2.782E-06	2.641E-06
3	7.998E-07	1.136E-06	1.271E-06	2.783E-06	4.703E-06	5.456E-06	5.986E-06	5.986E-06	6.029E-06	5.752E-06	5.187E-06	4.649E-06
4	8.898E-07	1.179E-06	2.665E-06	5.204E-06	7.957E-06	8.694E-06	9.746E-06	1.003E-05	9.544E-06	8.753E-06	7.321E-06	6.152E-06
6	2.311E-07	3.951E-06	8.451E-06	1.544E-05	1.967E-05	1.967E-05	2.025E-05	1.892E-05	1.588E-05	1.306E-05	8.375E-06	6.732E-06
8	5.832E-07	1.163E-05	3.015E-05	3.304E-05	3.328E-05	3.101E-05	2.590E-05	1.803E-05	1.458E-05	1.145E-05	1.292E-06	6.319E-06
10	5.117E-05	2.588E-05	4.816E-05	4.864E-05	4.609E-05	4.609E-05	4.609E-05	4.609E-05	4.609E-05	4.609E-05	4.609E-05	4.609E-05
15	4.927E-05	8.783E-05	9.842E-05	9.127E-05	7.872E-05	5.752E-05	2.691E-05	9.488E-06	5.398E-05	8.712E-05	1.770E-05	3.092E-05
20	1.389E-04	1.633E-04	1.491E-04	9.888E-05	5.931E-05	8.478E-06	5.861E-05	2.748E-06	5.398E-05	8.712E-05	1.770E-05	3.092E-05
30	1.489E-04	1.899E-04	1.634E-04	1.231E-04	2.424E-04	3.738E-04	5.394E-04	1.163E-04	9.222E-04	2.864E-04	3.770E-04	4.433E-04
40	6.344E-05	5.117E-04	8.267E-04	1.254E-03	1.176E-03	1.176E-03	1.176E-03	1.176E-03	1.176E-03	1.176E-03	1.176E-03	1.176E-03
50	1.922E-03	2.165E-03	2.165E-03	2.165E-03	2.165E-03	2.165E-03	2.165E-03	2.165E-03	2.165E-03	2.165E-03	2.165E-03	2.165E-03
60	1.554E-03	4.290E-03	4.290E-03	4.290E-03	4.290E-03	4.290E-03	4.290E-03	4.290E-03	4.290E-03	4.290E-03	4.290E-03	4.290E-03
75	5.38E-03	6.263E-03	6.263E-03	6.263E-03	6.263E-03	6.263E-03	6.263E-03	6.263E-03	6.263E-03	6.263E-03	6.263E-03	6.263E-03
90	7.184E-03	8.277E-03	8.277E-03	8.277E-03	8.277E-03	8.277E-03	8.277E-03	8.277E-03	8.277E-03	8.277E-03	8.277E-03	8.277E-03
120	1.464E-03	1.464E-03	1.464E-03	1.464E-03	1.464E-03	1.464E-03	1.464E-03	1.464E-03	1.464E-03	1.464E-03	1.464E-03	1.464E-03
150	4.864E-03	5.270E-03	5.270E-03	5.270E-03	5.270E-03	5.270E-03	5.270E-03	5.270E-03	5.270E-03	5.270E-03	5.270E-03	5.270E-03
179	1.771E-04	1.921E-04	2.033E-04	2.201E-04	2.311E-04	2.441E-04	2.625E-04	2.894E-04	3.171E-04	3.443E-04	3.910E-04	4.317E-04
DEG	5.0E-02	1.0E-01	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E-00	1.5E-00	2.0E-00
1	7.932E-07	7.508E-07	6.907E-07	6.041E-07	5.443E-07	4.516E-07	3.873E-07	3.399E-07	2.743E-07	2.138E-07	1.522E-07	1.246E-07
2	2.486E-04	2.213E-06	1.880E-06	1.502E-06	8.395E-06	8.395E-06	8.395E-06	8.395E-06	8.395E-06	8.395E-06	8.395E-06	8.395E-06
3	4.175E-04	3.946E-04	2.531E-04	1.57E-04	9.062E-07	2.736E-07	4.736E-07	4.736E-07	4.736E-07	4.736E-07	4.736E-07	4.736E-07
4	5.123E-04	3.498E-06	1.771E-06	4.544E-08	1.131E-06	2.244E-06	2.244E-06	2.244E-06	2.244E-06	2.244E-06	2.244E-06	2.244E-06
6	1.803E-06	2.649E-06	1.150E-06	1.159E-05	1.391E-05	1.391E-05	1.391E-05	1.391E-05	1.391E-05	1.391E-05	1.391E-05	1.391E-05
10	1.127E-05	2.123E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05
15	1.127E-05	2.123E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05
20	1.127E-05	2.123E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05
30	1.127E-05	2.123E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05	3.008E-05
45	4.337E-03	1.747E-03	1.908E-03	2.035E-03	2.071E-03	2.071E-03	2.071E-03	2.071E-03	2.071E-03	2.071E-03	2.071E-03	2.071E-03
60	8.045E-03	8.409E-03	9.514E-03	9.514E-03	9.514E-03	9.514E-03	9.514E-03	9.514E-03	9.514E-03	9.514E-03	9.514E-03	9.514E-03
75	1.213E-07	1.325E-02	1.434E-02	1.548E-02	1.694E-02	1.694E-02	1.694E-02	1.694E-02	1.694E-02	1.694E-02	1.694E-02	1.694E-02
90	1.571E-07	1.764E-02	1.941E-02	2.086E-02	2.162E-02	2.162E-02	2.162E-02	2.162E-02	2.162E-02	2.162E-02	2.162E-02	2.162E-02
120	1.548E-02	2.063E-02	2.120E-02	2.640E-02	2.672E-02	2.672E-02	2.672E-02	2.672E-02	2.672E-02	2.672E-02	2.672E-02	2.672E-02
150	1.548E-02	1.934E-02	1.934E-02	1.934E-02	1.934E-02	1.934E-02	1.934E-02	1.934E-02	1.934E-02	1.934E-02	1.934E-02	1.934E-02
179	4.864E-04	5.345E-04	6.213E-04	7.499E-04	8.657E-04	1.077E-03	1.274E-03	1.462E-03	1.624E-03	1.764E-03	1.934E-03	2.025E-03
DEG	3.0E+00	4.4E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	5.436E-04	6.452E-08	5.549E-10	4.101E-08	2.928E-04	1.943E-04	1.449E-04	1.008E-08	7.589E-09	6.086E-09	4.360E-09	3.050E-09
2	9.334E-04	7.11E-04	5.799E-09	4.204E-08	2.984E-04	2.016E-04	1.522E-04	1.022E-08	7.696E-09	6.172E-09	4.420E-09	3.101E-09
3	2.789E-07	2.223E-07	1.441E-07	1.365E-07	9.017E-04	6.676E-04	5.059E-04	3.401E-04	2.562E-08	2.055E-08	1.473E-08	1.033E-08
4	1.263E-05	9.945E-07	4.140E-07	6.040E-07	4.439E-07	3.398E-07	2.224E-07	1.495E-07	1.126E-07	9.033E-08	6.473E-08	4.541E-08
6	5.672E-05	4.617E-05	3.742E-05	2.784E-05	1.948E-04	1.352E-06	6.612E-06	6.612E-06	5.182E-07	4.158E-07	2.977E-07	2.089E-07
10	2.978E-05	2.330E-05	1.613E-05	1.407E-05	1.007E-05	3.443E-06	1.655E-06	1.756E-06	1.323E-06	1.041E-06	7.602E-07	5.333E-07
15	9.744E-04	7.444E-04	6.143E-04	4.517E-03	3.233E-03	2.142E-03	1.458E-03	1.155E-03	8.396E-06	2.098E-06	1.503E-06	1.054E-06
20	1.539E-04	1.539E-04	1.744E-04	9.855E-05	7.077E-05	4.746E-05	3.162E-05	2.614E-05	1.837E-05	6.736E-06	4.824E-06	3.384E-06
30	5.995E-04	4.667E-04	3.441E-04	2.847E-04	1.972E-04	1.371E-04	1.037E-04	6.975E-05	5.254E-05	4.271E-05	3.056E-05	2.185E-05
45	1.622E-03	1.622E-03	1.622E-03	1.622E-03	1.622E-03	1.622E-03	1.622E-03	1.622E-03	1.622E-03	1.622E-03	1.622E-03	1.622E-03
60	1.198E-03	2.544E-03	2.544E-03	2.544E-03	2.544E-03	2.544E-03	2.544E-03	2.544E-03	2.544E-03	2.544E-03	2.544E-03	2.544E-03
75	5.170E-03	4.219E-03	3.667E-03	3.667E-03	3.667E-03	3.667E-03	3.667E-03	3.667E-03	3.667E-03	3.667E-03	3.667E-03	3.667E-03
90	4.646E-03	4.646E-03	4.646E-03	4.646E-03	4.646E-03	4.646E-03	4.646E-03	4.646E-03	4.646E-03	4.646E-03	4.646E-03	4.646E-03
120	1.211E-03	1.373E-03	1.409E-03	1.409E-03	1.409E-03	1.409E-03	1.409E-03	1.409E-03	1.409E-03	1.409E-03	1.409E-03	1.409E-03
150	3.678E-02	2.530E-02	2.530E-02	2.530E-02	2.530E-02	2.530E-02	2.530E-02	2.530E-02	2.530E-02	2.530E-02	2.530E-02	2.530E-02
179	5.646E-03	7.247E-03	8.449E-03	1.021E-02	1.204E-02	1.404E-02	1.625E-02	1.871E-02	2.149E-02	2.467E-02	2.822E-02	3.217E-02

MG (12)

SHEPHERD FUNCTIONS (CORREL OF POLARIZATION OF A SCATTERED ELECTRON BEAM)

ENERGY (eV)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	4.448E-04	1.645E-07	2.033E-07	2.361E-07	3.000E-07	4.270E-07	5.403E-07	7.362E-07	8.705E-07	9.300E-07	9.506E-07	9.443E-07
2	3.548E-07	4.598E-07	4.544E-07	4.541E-07	1.210E-06	1.670E-06	2.510E-06	3.041E-06	3.740E-06	3.456E-06	3.307E-06	3.238E-06
3	1.026E-06	7.179E-07	1.027E-06	2.477E-06	3.557E-06	4.770E-06	6.074E-06	6.410E-06	6.468E-06	6.468E-06	6.468E-06	6.468E-06
4	1.493E-06	9.194E-07	1.544E-06	5.150E-06	7.017E-06	9.254E-06	1.112E-05	1.194E-05	1.194E-05	1.095E-05	9.522E-06	8.224E-06
6	6.504E-07	2.612E-06	5.471E-06	1.522E-05	2.004E-05	2.566E-05	3.407E-05	4.348E-05	4.072E-05	3.744E-05	3.257E-05	2.802E-05
8	1.625E-06	7.233E-06	1.521E-05	3.189E-05	5.174E-05	7.548E-05	1.066E-04	1.317E-04	1.254E-04	1.086E-04	9.502E-05	8.502E-05
10	1.659E-06	1.940E-05	3.725E-05	5.191E-05	5.914E-05	6.746E-05	7.820E-05	9.401E-05	2.540E-04	2.540E-04	2.540E-04	2.540E-04
15	3.236E-07	8.926E-05	1.110E-04	1.156E-04	1.071E-04	9.507E-05	8.200E-05	1.110E-04	3.962E-04	3.962E-04	3.962E-04	3.962E-04
20	1.316E-06	1.901E-04	1.610E-04	1.477E-04	1.044E-04	6.017E-05	2.660E-05	-1.125E-04	-2.136E-04	-2.871E-04	-3.924E-04	-4.671E-04
30	3.426E-06	2.940E-04	1.724E-04	-4.451E-05	-2.007E-04	-3.345E-04	-4.352E-04	-7.424E-04	-9.401E-04	-1.152E-03	-1.345E-03	-1.575E-03
45	1.471E-06	-3.152E-04	-7.519E-04	-1.271E-03	-1.007E-03	-1.884E-03	-2.283E-03	-2.703E-03	-3.194E-03	-3.558E-03	-4.043E-03	-4.683E-03
60	-1.407E-06	-2.235E-03	-2.783E-03	-3.506E-03	-3.790E-03	-4.374E-03	-4.943E-03	-5.572E-03	-6.336E-03	-6.916E-03	-7.748E-03	-8.641E-03
75	-3.422E-07	-4.736E-03	-5.343E-03	-6.166E-03	-6.746E-03	-7.198E-03	-7.605E-03	-8.719E-03	-9.731E-03	-1.056E-02	-1.174E-02	-1.276E-02
90	-6.207E-07	-7.062E-03	-7.880E-03	-8.546E-03	-9.178E-03	-9.675E-03	-1.067E-02	-1.144E-02	-1.267E-02	-1.367E-02	-1.526E-02	-1.654E-02
120	-8.274E-07	-8.174E-03	-9.413E-03	-1.032E-02	-1.094E-02	-1.230E-02	-1.370E-02	-1.373E-02	-1.671E-02	-1.586E-02	-1.777E-02	-1.937E-02
150	-5.593E-07	-6.062E-03	-6.613E-03	-7.947E-03	-7.349E-03	-7.055E-03	-8.240E-03	-9.737E-03	-9.479E-03	-1.088E-02	-1.204E-02	-1.322E-02
179	-2.033E-06	-2.699E-04	-2.740E-04	-2.534E-04	-2.007E-04	-2.007E-04	-1.013E-04	-3.267E-04	-3.610E-04	-3.914E-04	-4.626E-04	-4.872E-04
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E-00	1.5E-00	2.0E-00
1	9.489E-07	9.062E-07	8.600E-07	7.668E-07	6.722E-07	5.622E-07	4.860E-07	4.270E-07	3.662E-07	2.710E-07	1.949E-07	1.587E-07
2	3.075E-06	2.178E-06	2.613E-06	1.769E-06	1.044E-06	6.065E-07	3.965E-07	2.257E-07	6.154E-07	4.474E-07	3.049E-07	2.167E-07
3	5.393E-06	4.355E-06	3.572E-06	2.442E-06	1.126E-06	6.179E-07	4.307E-07	1.727E-07	-7.453E-08	-2.064E-07	-2.333E-07	-2.154E-07
4	7.045E-06	5.603E-06	3.722E-06	1.911E-06	-9.347E-06	-1.004E-05	-2.073E-06	-2.317E-06	-2.618E-06	-2.760E-06	-1.871E-06	-1.662E-06
6	5.205E-06	1.649E-05	-4.648E-06	-1.011E-05	-1.674E-05	-1.562E-05	-1.498E-05	-1.461E-05	-1.260E-05	-9.980E-06	-8.738E-06	-8.178E-06
8	8.084E-06	-1.842E-05	-2.220E-05	-3.778E-05	-4.644E-05	-4.597E-05	-4.573E-05	-4.013E-05	-3.087E-05	-3.186E-05	-2.652E-05	-2.163E-05
10	-3.733E-06	-5.452E-05	-7.121E-05	-9.645E-05	-9.347E-05	-9.739E-05	-9.519E-05	-9.096E-05	-8.133E-05	-6.856E-05	-9.346E-05	-4.350E-05
15	-2.017E-06	-2.452E-04	-2.853E-04	-3.213E-04	-3.350E-04	-3.354E-04	-3.231E-04	-3.055E-04	-2.702E-04	-2.280E-04	-1.722E-04	-1.242E-04
20	-5.245E-06	-6.066E-04	-6.827E-04	-7.450E-04	-7.044E-04	-7.582E-04	-7.232E-04	-6.812E-04	-5.998E-04	-5.001E-04	-3.888E-04	-3.135E-04
30	-1.711E-06	-1.904E-03	-2.042E-03	-2.221E-03	-2.244E-03	-2.211E-03	-2.094E-03	-1.977E-03	-1.731E-03	-1.414E-03	-9.024E-04	-5.034E-04
45	-4.789E-07	-5.231E-03	-5.642E-03	-5.964E-03	-6.054E-03	-5.622E-03	-4.830E-03	-3.522E-03	-2.666E-03	-1.894E-03	-1.017E-03	-2.459E-03
60	-8.986E-07	-9.764E-03	-1.053E-02	-1.117E-02	-1.113E-02	-1.124E-02	-1.077E-02	-1.017E-02	-9.067E-02	-7.667E-02	-6.227E-02	-4.826E-02
75	-1.354E-02	-1.674E-02	-1.597E-02	-1.717E-02	-1.764E-02	-1.770E-02	-1.717E-02	-1.641E-02	-1.477E-02	-1.257E-02	-9.887E-03	-8.085E-03
90	-1.757E-02	-1.924E-02	-2.103E-02	-2.290E-02	-2.392E-02	-2.459E-02	-2.430E-02	-2.356E-02	-2.164E-02	-1.875E-02	-1.444E-02	-1.235E-02
120	-2.075E-02	-2.369E-02	-2.687E-02	-2.936E-02	-3.100E-02	-3.207E-02	-3.269E-02	-3.186E-02	-2.927E-02	-2.629E-02	-2.249E-02	-1.835E-02
150	-1.427E-02	-1.613E-02	-1.852E-02	-2.188E-02	-2.476E-02	-2.751E-02	-3.136E-02	-3.680E-02	-4.112E-02	-4.644E-02	-4.660E-02	-4.634E-02
179	-5.275E-06	-6.000E-04	-6.960E-04	-1.171E-04	-9.064E-04	-1.149E-03	-1.415E-03	-1.624E-03	-2.026E-03	-2.603E-03	-3.541E-03	-4.663E-03
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	1.127E-07	8.142E-08	7.145E-08	5.235E-08	3.710E-08	2.532E-08	1.914E-08	1.287E-08	9.690E-09	7.771E-09	5.567E-09	3.903E-09
2	1.648E-07	1.264E-07	1.027E-07	7.479E-08	5.322E-08	3.598E-08	2.717E-08	1.775E-08	1.103E-08	7.901E-09	5.562E-09	3.903E-09
3	1.724E-07	1.399E-07	1.107E-07	8.134E-08	6.000E-08	4.004E-08	2.554E-08	1.644E-08	1.055E-08	7.326E-09	5.504E-09	3.903E-09
4	1.566E-06	9.122E-07	7.513E-07	5.552E-07	3.798E-07	2.608E-07	1.604E-07	9.376E-08	5.315E-08	2.957E-08	1.679E-08	9.577E-09
6	5.963E-06	-4.678E-06	-3.444E-06	-2.831E-06	-2.027E-06	-1.375E-06	-1.040E-06	-6.997E-07	-4.270E-07	-2.277E-07	-1.274E-07	-6.288E-08
8	1.571E-05	-2.331E-05	-1.811E-05	-1.438E-05	-5.322E-06	-3.611E-06	-2.732E-06	-1.877E-06	-1.346E-06	-1.110E-06	-7.950E-07	-5.577E-07
10	-3.154E-05	-2.469E-05	-2.020E-05	-1.491E-05	-1.047E-05	-6.235E-06	-4.737E-06	-3.690E-06	-2.772E-06	-2.223E-06	-1.593E-06	-1.117E-06
15	-1.033E-04	-6.054E-05	-6.603E-05	-4.460E-05	-3.477E-05	-2.358E-05	-1.784E-05	-1.199E-05	-9.033E-06	-7.245E-06	-5.190E-06	-3.641E-06
20	-2.270E-04	-7.75E-05	-1.450E-04	-1.070E-04	-7.659E-05	-5.196E-05	-3.928E-05	-2.641E-05	-1.990E-05	-1.598E-05	-1.143E-05	-8.014E-06
30	-6.531E-04	-3.106E-04	-4.187E-04	-3.040E-04	-2.207E-04	-1.494E-04	-1.130E-04	-7.599E-05	-5.723E-05	-4.590E-05	-3.288E-05	-2.376E-05
45	-1.773E-03	-1.387E-03	-1.130E-03	-8.567E-04	-5.984E-04	-4.060E-04	-2.871E-04	-2.045E-04	-1.555E-04	-1.267E-04	-8.936E-05	-6.269E-05
60	-3.501E-03	-2.761E-03	-2.250E-03	-1.656E-03	-1.184E-03	-8.035E-04	-5.609E-04	-4.088E-04	-3.079E-04	-2.470E-04	-1.769E-04	-1.241E-04
75	-5.892E-03	-4.621E-03	-3.797E-03	-2.796E-03	-2.000E-03	-1.358E-03	-1.020E-03	-6.910E-04	-5.205E-04	-4.175E-04	-2.991E-04	-2.098E-04
90	-9.063E-03	-7.126E-03	-5.864E-03	-4.324E-03	-3.090E-03	-2.103E-03	-1.591E-03	-1.170E-03	-8.062E-04	-6.466E-04	-4.632E-04	-3.250E-04
120	-1.887E-02	-1.565E-02	-1.247E-02	-9.258E-03	-6.040E-03	-4.530E-03	-3.431E-03	-2.304E-03	-1.719E-03	-1.305E-03	-9.977E-04	-7.013E-04
150	-3.829E-02	-3.244E-02	-2.783E-02	-2.138E-02	-1.570E-02	-1.081E-02	-8.219E-03	-5.949E-03	-4.185E-03	-3.359E-03	-2.409E-03	-1.690E-03
179	-6.291E-03	-8.077E-03	-9.952E-03	-1.333E-02	-1.075E-02	-2.600E-02	-7.257E-02	-4.213E-02	-4.719E-02	-3.931E-02	-4.789E-02	-6.149E-02

AL	(13)	SHERMAN FUNCTION: DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MeV)			
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02			
1	6.336E-08	1.112E-07	1.813E-07	2.685E-07	3.357E-07	3.977E-07	5.671E-07	1.727E-07	4.408E-07	1.048E-06	1.100E-06	1.104E-06			
2	2.502E-07	5.663E-07	1.169E-06	8.688E-07	1.364E-06	1.868E-06	2.604E-06	3.365E-06	3.802E-06	3.978E-06	4.004E-06	3.872E-06			
3	9.337E-07	1.060E-06	9.743E-06	2.108E-06	3.320E-06	4.127E-06	4.468E-06	7.742E-06	8.128E-06	4.379E-06	7.840E-06	7.273E-06			
4	1.965E-06	1.147E-06	1.390E-06	4.357E-06	7.310E-06	9.447E-06	1.207E-05	1.358E-05	1.388E-05	1.337E-05	1.185E-05	1.045E-05			
6	2.099E-06	6.523E-07	4.493E-06	1.402E-05	2.052E-05	2.434E-05	2.763E-05	2.812E-05	2.581E-05	2.223E-05	1.733E-05	1.230E-05			
8	-1.335E-06	2.630E-06	1.394E-05	3.173E-05	4.084E-05	4.492E-05	4.637E-05	4.295E-05	3.458E-05	2.692E-05	1.440E-05	4.810E-06			
10	-5.945E-06	1.160E-05	3.291E-05	5.710E-05	6.830E-05	6.834E-05	4.434E-05	3.351E-05	3.568E-05	2.078E-05	-1.962E-06	-1.880E-05			
15	1.034E-05	8.000E-05	1.174E-04	1.380E-04	1.303E-04	1.150E-04	8.103E-05	3.617E-05	-2.098E-05	-6.377E-05	-1.259E-04	-1.702E-04			
20	1.073E-04	2.054E-04	2.281E-04	1.947E-04	1.493E-04	9.753E-05	1.410E-05	-8.387E-05	-1.996E-04	-2.834E-04	-4.025E-04	-4.868E-04			
30	4.585E-04	4.115E-04	2.909E-04	5.456E-05	-1.364E-04	-2.854E-04	-5.138E-04	-7.546E-04	-1.028E-03	-1.223E-03	-1.500E-03	-1.697E-03			
45	3.965E-04	-1.889E-04	-6.330E-04	-1.249E-03	-1.060E-03	-1.988E-03	-2.447E-03	-2.931E-03	-3.488E-03	-3.894E-03	-4.466E-03	-4.915E-03			
60	-1.242E-03	-2.242E-03	-2.905E-03	-3.176E-03	-4.360E-03	-4.801E-03	-5.461E-03	-6.173E-03	-7.023E-03	-7.644E-03	-8.627E-03	-9.340E-03			
75	-4.026E-03	-5.139E-03	-5.870E-03	-6.847E-03	-7.322E-03	-8.046E-03	-8.855E-03	-9.760E-03	-1.088E-02	-1.176E-02	-1.311E-02	-1.415E-02			
90	-6.861E-03	-7.907E-03	-8.622E-03	-9.620E-03	-1.074E-02	-1.091E-02	-1.182E-02	-1.288E-02	-1.423E-02	-1.531E-02	-1.703E-02	-1.839E-02			
120	-9.354E-03	-1.019E-02	-1.081E-02	-1.173E-02	-1.243E-02	-1.301E-02	-1.395E-02	-1.508E-02	-1.659E-02	-1.746E-02	-1.991E-02	-2.163E-02			
150	-6.351E-03	-6.893E-03	-7.290E-03	-7.403E-03	-8.367E-03	-8.742E-03	-9.364E-03	-1.013E-02	-1.116E-02	-1.203E-02	-1.352E-02	-1.479E-02			
179	-2.308E-04	-2.511E-04	-2.661E-04	-2.884E-04	-3.057E-04	-3.193E-04	-3.424E-04	-3.704E-04	-4.086E-04	-4.411E-04	-4.970E-04	-5.455E-04			
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00			
1	1.113E-06	1.072E-06	1.003E-06	8.977E-07	8.122E-07	6.838E-07	5.922E-07	5.233E-07	4.259E-07	3.344E-07	2.472E-07	1.965E-07			
2	3.712E-06	3.397E-06	2.994E-06	2.489E-06	2.124E-06	1.643E-06	1.338E-06	1.129E-06	8.630E-07	6.414E-07	4.534E-07	3.527E-07			
3	6.733E-06	5.822E-06	4.722E-06	3.460E-06	2.622E-06	1.610E-06	1.049E-06	7.104E-07	3.491E-07	1.265E-07	8.092E-09	2.519E-08			
4	4.291E-06	7.269E-06	5.052E-06	2.648E-06	1.150E-06	5.028E-07	-1.288E-06	-1.673E-06	-1.928E-06	-1.879E-06	-1.601E-06	-1.351E-06			
6	4.194E-06	3.542E-06	-2.285E-06	-8.150E-06	-1.144E-05	-1.450E-05	-1.538E-05	-1.537E-05	-1.439E-05	-1.251E-05	-9.957E-06	-8.177E-06			
8	-2.805E-06	-1.421E-05	-2.558E-05	-3.645E-05	-4.912E-05	-5.435E-05	-6.694E-05	-4.508E-05	-4.094E-05	-3.489E-05	-2.739E-05	-2.336E-05			
10	-3.194E-05	-5.129E-05	-7.014E-05	-8.751E-05	-9.251E-05	-1.008E-04	-8.898E-05	-9.484E-05	-8.504E-05	-7.184E-05	-5.607E-05	-4.567E-05			
15	-2.040E-04	-2.529E-04	-2.987E-04	-3.384E-04	-3.347E-04	-3.571E-04	-3.736E-04	-3.253E-04	-2.879E-04	-2.411E-04	-1.870E-04	-1.519E-04			
20	-5.508E-04	-6.424E-04	-7.270E-04	-7.965E-04	-8.212E-04	-8.133E-04	-7.763E-04	-7.315E-04	-6.441E-04	-5.374E-04	-4.158E-04	-3.374E-04			
30	-1.846E-03	-2.059E-03	-2.254E-03	-2.405E-03	-2.444E-03	-2.394E-03	-2.272E-03	-2.134E-03	-1.873E-03	-1.559E-03	-1.205E-03	-9.772E-04			
45	-5.246E-03	-5.725E-03	-6.167E-03	-6.512E-03	-6.603E-03	-6.449E-03	-6.126E-03	-5.762E-03	-5.069E-03	-4.230E-03	-3.276E-03	-2.659E-03			
60	-9.912E-03	-1.075E-02	-1.156E-02	-1.224E-02	-1.246E-02	-1.228E-02	-1.175E-02	-1.111E-02	-9.852E-03	-8.278E-03	-6.446E-03	-5.247E-03			
75	-1.503E-02	-1.629E-02	-1.754E-02	-1.881E-02	-1.934E-02	-1.937E-02	-1.876E-02	-1.792E-02	-1.610E-02	-1.369E-02	-1.076E-02	-8.800E-03			
90	-1.951E-02	-2.130E-02	-2.322E-02	-2.520E-02	-2.627E-02	-2.694E-02	-2.658E-02	-2.575E-02	-2.361E-02	-2.044E-02	-1.632E-02	-1.345E-02			
120	-2.313E-02	-2.565E-02	-2.861E-02	-3.242E-02	-3.517E-02	-3.654E-02	-4.025E-02	-4.088E-02	-4.030E-02	-3.745E-02	-3.189E-02	-2.716E-02			
150	-1.593E-02	-1.795E-02	-2.050E-02	-2.422E-02	-2.713E-02	-3.254E-02	-3.674E-02	-4.016E-02	-4.517E-02	-4.928E-02	-5.055E-02	-4.844E-02			
179	-5.895E-04	-6.688E-04	-7.734E-04	-9.278E-04	-1.044E-03	-1.324E-03	-1.563E-03	-1.791E-03	-2.231E-03	-2.868E-03	-3.900E-03	-4.914E-03			
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02			
1	1.397E-07	1.084E-07	8.862E-08	6.494E-08	4.837E-08	3.141E-08	2.375E-08	1.596E-08	1.202E-08	9.643E-09	6.908E-09	4.846E-09			
2	2.459E-07	1.893E-07	1.541E-07	1.125E-07	8.015E-08	5.422E-08	4.098E-08	2.754E-08	2.074E-08	1.663E-08	1.191E-08	8.356E-09			
3	-3.756E-08	-3.547E-08	-3.161E-08	-2.496E-08	-1.855E-08	-1.285E-08	-9.791E-09	-6.619E-09	-4.995E-09	-4.010E-09	-2.875E-09	-2.018E-09			
4	-1.009E-06	-7.987E-07	-6.594E-07	-4.876E-07	-3.300E-07	-2.378E-07	-1.800E-07	-1.211E-07	-9.121E-08	-7.316E-08	-5.242E-08	-3.671E-08			
6	-5.973E-06	-4.688E-06	-3.854E-06	-2.839E-06	-2.037E-06	-1.380E-06	-1.044E-06	-7.019E-07	-5.287E-07	-4.241E-07	-3.038E-07	-2.131E-07			
8	-1.626E-05	-1.274E-05	-1.046E-05	-7.700E-06	-5.512E-06	-3.739E-06	-2.824E-06	-1.902E-06	-1.433E-06	-1.149E-06	-8.232E-07	-5.775E-07			
10	-3.313E-05	-2.593E-05	-2.124E-05	-1.566E-05	-1.121E-05	-7.363E-06	-5.752E-06	-3.867E-06	-2.913E-06	-2.336E-06	-1.674E-06	-1.174E-06			
15	-1.099E-04	-8.597E-05	-7.055E-05	-5.168E-05	-3.712E-05	-2.517E-05	-1.904E-05	-1.280E-05	-9.644E-06	-7.735E-06	-5.541E-06	-3.887E-06			
20	-2.443E-04	-1.908E-04	-1.565E-04	-1.151E-04	-8.237E-05	-5.583E-05	-4.223E-05	-2.839E-05	-2.139E-05	-1.715E-05	-1.224E-05	-8.620E-06			
30	-7.065E-04	-5.523E-04	-4.531E-04	-3.331E-04	-2.383E-04	-1.616E-04	-1.222E-04	-8.219E-05	-6.190E-05	-4.965E-05	-3.557E-05	-2.495E-05			
45	-1.924E-03	-1.505E-03	-1.235E-03	-9.081E-04	-6.497E-04	-4.406E-04	-3.333E-04	-2.241E-04	-1.688E-04	-1.354E-04	-9.698E-05	-6.804E-05			
60	-3.806E-03	-2.979E-03	-2.440E-03	-1.800E-03	-1.288E-03	-8.735E-04	-6.408E-04	-4.443E-04	-3.347E-04	-2.684E-04	-1.923E-04	-1.349E-04			
75	-6.409E-03	-5.026E-03	-4.124E-03	-3.041E-03	-2.177E-03	-1.477E-03	-1.117E-03	-7.514E-04	-5.660E-04	-4.540E-04	-3.292E-04	-2.282E-04			
90	-9.858E-03	-7.752E-03	-6.174E-03	-4.703E-03	-3.370E-03	-2.288E-03	-1.731E-03	-1.164E-03	-8.769E-04	-7.035E-04	-5.039E-04	-3.535E-04			
120	-2.055E-02	-1.638E-02	-1.357E-02	-1.007E-02	-7.246E-03	-4.928E-03	-3.732E-03	-2.511E-03	-1.892E-03	-1.518E-03	-1.087E-03	-7.624E-04			
150	-4.166E-02	-3.535E-02	-3.031E-02	-2.327E-02	-1.706E-02	-1.176E-02	-8.942E-03	-6.036E-03	-4.553E-03	-3.654E-03	-2.619E-03	-1.838E-03			
179	-6.915E-03	-8.891E-03	-1.084E-02	-1.468E-02	-2.019E-02	-2.860E-02	-5.580E-02	-4.624E-02	-5.189E-02	-5.399E-02	-4.525E-02				

SI (14)	SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)			
	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02		
DEG														
1	7.507E-08	1.497E-07	2.254E-07	2.890E-07	3.414E-07	4.178E-07	5.743E-07	8.106E-07	1.038E-06	1.159E-06	1.260E-06	1.263E-06		
2	2.023E-07	5.738E-07	6.777E-07	7.217E-07	1.246E-06	1.657E-06	2.672E-06	3.490E-06	4.279E-06	4.495E-06	4.642E-06	4.543E-06		
3	6.912E-07	1.243E-06	1.117E-06	1.697E-06	3.212E-06	4.629E-06	6.603E-06	8.279E-06	9.397E-06	9.649E-06	9.290E-06	8.747E-06		
4	2.013E-06	1.736E-06	1.240E-06	3.465E-06	6.687E-06	9.219E-06	1.278E-05	1.525E-05	1.608E-05	1.583E-05	1.455E-05	1.296E-05		
6	4.076E-06	4.023E-07	2.328E-06	1.192E-05	1.499E-05	2.535E-05	3.070E-05	3.270E-05	3.123E-05	2.832E-05	2.264E-05	1.780E-05		
8	1.452E-04	-1.023E-06	8.700E-06	2.959E-05	4.238E-05	4.917E-05	5.370E-05	5.197E-05	4.416E-05	3.617E-05	2.258E-05	1.200E-05		
10	-6.106E-06	2.794E-06	2.484E-05	5.723E-05	7.237E-05	7.811E-05	7.775E-05	6.819E-05	4.980E-05	3.373E-05	8.602E-06	-1.015E-05		
15	-1.227E-05	6.331E-05	1.163E-04	1.566E-04	1.580E-04	1.463E-04	1.133E-04	6.537E-05	2.039E-06	-4.594E-05	-1.157E-04	-1.653E-04		
20	6.787E-05	2.056E-04	2.566E-04	2.519E-04	2.067E-04	1.557E-04	6.291E-05	-4.694E-05	-1.781E-04	-2.729E-04	-4.072E-04	-5.014E-04		
30	4.955E-04	5.210E-04	4.188E-04	1.728E-04	-3.841E-05	-2.106E-04	-4.738E-04	-7.514E-04	-1.064E-03	-1.285E-03	-1.595E-03	-1.813E-03		
45	6.744E-04	4.521E-05	-4.623E-04	-1.183E-03	-1.678E-03	-2.048E-03	-2.588E-03	-3.145E-03	-3.775E-03	-4.229E-03	-4.881E-03	-5.349E-03		
60	-9.932E-04	-2.178E-03	-2.970E-03	-4.007E-03	-4.696E-03	-5.212E-03	-5.973E-03	-6.780E-03	-7.726E-03	-8.431E-03	-9.478E-03	-1.025E-02		
75	-4.156E-03	-5.495E-03	-6.368E-03	-7.521E-03	-8.306E-03	-8.908E-03	-9.825E-03	-1.084E-02	-1.207E-02	-1.302E-02	-1.448E-02	-1.560E-02		
90	-7.489E-03	-8.730E-03	-9.568E-03	-1.072E-02	-1.155E-02	-1.220E-02	-1.322E-02	-1.438E-02	-1.585E-02	-1.702E-02	-1.887E-02	-2.032E-02		
120	-1.051E-02	-1.146E-02	-1.217E-02	-1.321E-02	-1.400E-02	-1.464E-02	-1.568E-02	-1.692E-02	-1.856E-02	-1.991E-02	-2.215E-02	-2.400E-02		
150	-7.146E-03	-7.761E-03	-8.222E-03	-8.908E-03	-9.477E-03	-9.853E-03	-1.055E-02	-1.139E-02	-1.251E-02	-1.346E-02	-1.506E-02	-1.644E-02		
179	-2.594E-04	-2.825E-04	-2.990E-04	-3.151E-04	-3.467E-04	-3.599E-04	-3.856E-04	-4.583E-04	-4.936E-04	-5.541E-04	-6.067E-04			
	5.0E-02	7.0E-02	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+00	1.5E+00	2.0E+00		
DEG														
1	1.267E-06	1.248E-06	1.176E-06	1.060E-06	9.638E-07	8.162E-07	7.094E-07	6.284E-07	5.131E-07	4.038E-07	2.942E-07	2.381E-07		
2	4.364E-06	4.066E-06	3.627E-06	3.062E-06	2.647E-06	2.084E-06	1.722E-06	1.469E-06	1.141E-06	8.601E-07	6.155E-07	4.817E-07		
3	8.186E-06	7.172E-06	5.962E-06	4.543E-06	3.584E-06	2.398E-06	1.719E-06	1.295E-06	8.170E-07	4.889E-07	2.732E-07	1.845E-07		
4	1.164E-05	9.519E-06	7.050E-06	4.328E-06	2.600E-06	6.393E-07	-3.428E-07	-8.648E-07	-1.299E-06	-1.403E-06	-1.259E-06	-1.083E-06		
6	1.377E-05	7.490E-06	9.560E-07	-5.703E-06	-9.537E-06	-1.321E-05	-1.444E-05	-1.465E-05	-1.393E-05	-1.222E-05	-9.787E-06	-8.057E-06		
8	3.536E-06	-9.204E-06	-2.197E-05	-3.431E-05	-4.087E-05	-4.609E-05	-4.671E-05	-4.555E-05	-4.161E-05	-3.560E-05	-2.802E-05	-2.291E-05		
10	-2.483E-05	-4.649E-05	-6.765E-05	-8.732E-05	-9.705E-05	-1.020E-04	-1.020E-04	-9.800E-05	-8.816E-05	-7.465E-05	-5.835E-05	-4.755E-05		
15	-2.032E-04	-2.578E-04	-3.091E-04	-3.535E-04	-3.727E-04	-3.763E-04	-3.628E-04	-3.439E-04	-3.047E-04	-2.553E-04	-1.981E-04	-1.610E-04		
20	-5.728E-04	-6.745E-04	-7.682E-04	-8.454E-04	-8.734E-04	-8.666E-04	-8.278E-04	-7.805E-04	-6.875E-04	-5.737E-04	-4.440E-04	-3.603E-04		
30	-1.977E-03	-2.211E-03	-2.423E-03	-2.588E-03	-2.634E-03	-2.576E-03	-2.444E-03	-2.296E-03	-2.014E-03	-1.677E-03	-1.295E-03	-1.051E-03		
45	-5.708E-03	-6.225E-03	-6.697E-03	-7.064E-03	-7.155E-03	-6.980E-03	-6.625E-03	-6.228E-03	-5.476E-03	-4.567E-03	-3.535E-03	-2.870E-03		
60	-1.086E-02	-1.176E-02	-1.262E-02	-1.333E-02	-1.355E-02	-1.333E-02	-1.274E-02	-1.204E-02	-1.066E-02	-8.953E-03	-6.968E-03	-5.671E-03		
75	-1.650E-02	-1.787E-02	-1.926E-02	-2.053E-02	-2.107E-02	-2.106E-02	-2.037E-02	-1.944E-02	-1.745E-02	-1.482E-02	-1.164E-02	-9.517E-03		
90	-2.153E-02	-2.343E-02	-2.547E-02	-2.756E-02	-2.868E-02	-2.934E-02	-2.890E-02	-2.797E-02	-2.561E-02	-2.215E-02	-1.767E-02	-1.455E-02		
120	-2.561E-02	-2.832E-02	-3.156E-02	-3.558E-02	-3.847E-02	-4.211E-02	-4.389E-02	-4.453E-02	-4.381E-02	-4.065E-02	-3.456E-02	-2.942E-02		
150	-1.768E-02	-1.986E-02	-2.268E-02	-2.665E-02	-3.004E-02	-3.567E-02	-4.021E-02	-4.391E-02	-4.931E-02	-5.370E-02	-5.497E-02	-5.260E-02		
179	-6.544E-04	-7.401E-04	-8.540E-04	-1.022E-03	-1.174E-03	-1.454E-03	-1.714E-03	-1.964E-03	-2.445E-03	-3.140E-03	-4.269E-03	-5.378E-03		
	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02		
DEG														
1	1.693E-07	1.315E-07	1.075E-07	7.878E-08	5.626E-08	3.811E-08	2.882E-08	1.937E-08	1.459E-08	1.170E-08	8.381E-09	5.879E-09		
2	3.376E-07	2.605E-07	2.124E-07	1.552E-07	1.106E-07	7.487E-08	5.660E-08	3.803E-08	2.864E-08	2.297E-08	1.645E-08	1.154E-08		
3	1.108E-07	7.951E-08	6.230E-08	4.379E-08	3.052E-08	2.038E-08	1.533E-08	1.027E-08	7.721E-09	6.189E-09	4.431E-09	3.107E-09		
4	-8.236E-07	-5.534E-07	-5.409E-07	-4.010E-07	-2.883E-07	-1.960E-07	-1.484E-07	-9.984E-08	-7.522E-08	-6.034E-08	-4.323E-08	-3.033E-08		
6	-5.897E-06	-4.633E-06	-3.810E-06	-2.808E-06	-2.011E-06	-1.365E-06	-1.033E-06	-6.945E-07	-5.231E-07	-4.196E-07	-3.006E-07	-2.109E-07		
8	-1.667E-05	-1.306E-05	-1.073E-05	-7.899E-06	-5.655E-06	-3.836E-06	-2.902E-06	-1.952E-06	-1.470E-06	-1.179E-06	-8.446E-07	-5.925E-07		
10	-3.451E-05	-2.703E-05	-2.219E-05	-1.633E-05	-1.168E-05	-7.925E-06	-5.995E-06	-4.031E-06	-3.036E-06	-2.435E-06	-1.745E-06	-1.224E-06		
15	-1.165E-04	-9.116E-05	-7.481E-05	-5.502E-05	-3.937E-05	-2.670E-05	-2.019E-05	-1.358E-05	-1.023E-05	-8.203E-06	-5.876E-06	-4.122E-06		
20	-2.606E-04	-2.037E-04	-1.672E-04	-1.229E-04	-8.794E-05	-5.963E-05	-4.511E-05	-3.033E-05	-2.284E-05	-1.832E-05	-1.313E-05	-9.208E-06		
30	-7.595E-04	-5.937E-04	-4.870E-04	-3.581E-04	-2.567E-04	-1.737E-04	-1.314E-04	-8.835E-05	-6.654E-05	-5.337E-05	-3.823E-05	-2.682E-05		
45	-2.076E-03	-1.624E-03	-1.332E-03	-9.797E-04	-7.009E-04	-4.753E-04	-3.596E-04	-2.418E-04	-1.821E-04	-1.460E-04	-1.046E-04	-7.340E-05		
60	-4.112E-03	-3.219E-03	-2.642E-03	-1.944E-03	-1.391E-03	-9.436E-04	-7.138E-04	-4.800E-04	-3.615E-04	-2.900E-04	-2.077E-04	-1.457E-04		
75	-6.930E-03	-5.633E-03	-4.464E-03	-3.287E-03	-2.353E-03	-1.597E-03	-1.208E-03	-8.122E-04	-6.118E-04	-4.907E-04	-3.515E-04	-2.466E-04		
90	-1.066E-02	-8.384E-03	-6.890E-03	-5.086E-03	-3.644E-03	-2.473E-03	-1.871E-03	-1.259E-03	-9.481E-04	-7.604E-04	-5.448E-04	-3.822E-04		
120	-2.224E-02	-1.772E-02	-1.468E-02	-1.089E-02	-7.836E-03	-5.330E-03	-4.036E-03	-2.716E-03	-2.046E-03	-1.641E-03	-1.176E-03	-8.250E-04		
150	-4.517E-02	-3.829E-02	-3.282E-02	-2.518E-02	-1.848E-02	-1.272E-02	-9.670E-03	-6.528E-03	-4.923E-03	-3.951E-03	-2.832E-03	-1.988E-03		
179	-7.568E-03	-9.729E-03	-1.187E-02	-1.606E-02	-2.209E-02	-3.126E-02	-3.911E-02	-5.046E-02	-5.654E-02	-5.875E-02	-5.682E-02	-4.906E-02		

P (15)		SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)	
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
DEG													
1	5.583E-08	1.390E-07	1.477E-07	2.428E-07	3.567E-07	4.193E-07	5.729E-07	8.280E-07	1.098E-06	1.260E-06	1.494E-06	1.433E-06	
2	1.367E-07	5.617E-07	7.538E-07	8.270E-07	1.152E-06	1.630E-06	2.508E-06	3.698E-06	4.659E-06	4.997E-06	5.269E-06	5.240E-06	
3	3.491E-07	1.531E-06	1.335E-06	1.456E-06	2.786E-06	4.265E-06	6.686E-06	8.900E-06	1.049E-05	1.096E-05	1.090E-05	1.031E-05	
4	1.539E-06	2.378E-06	1.500E-06	2.639E-06	5.653E-06	8.765E-06	1.312E-05	1.646E-05	1.823E-05	1.833E-05	1.729E-05	1.566E-05	
6	5.544E-06	1.447E-06	8.625E-07	9.238E-06	1.849E-05	2.534E-05	3.309E-05	3.702E-05	3.674E-05	3.426E-05	2.840E-05	2.329E-05	
8	5.890E-06	-2.700E-06	3.623E-06	2.552E-05	4.198E-05	5.186E-05	6.028E-05	6.112E-05	5.449E-05	4.672E-05	3.183E-05	2.027E-05	
10	-1.651E-06	-4.707E-06	1.520E-05	5.395E-05	7.567E-05	8.606E-05	9.069E-05	8.349E-05	6.537E-05	4.821E-05	2.081E-05	1.110E-07	
15	-3.023E-05	3.972E-05	1.059E-04	1.698E-04	1.876E-04	1.777E-04	1.481E-04	9.846E-05	2.944E-05	-2.380E-05	-1.014E-04	-1.569E-04	
20	1.816E-05	1.889E-04	2.728E-04	3.015E-04	2.667E-04	2.174E-04	1.195E-04	-1.584E-06	-1.487E-04	-2.553E-04	-4.057E-04	-5.108E-04	
30	4.954E-04	6.177E-04	5.499E-04	3.077E-04	7.827E-05	-1.146E-04	-4.140E-04	-7.314E-04	-1.087E-03	-1.336E-03	-1.682E-03	-1.923E-03	
45	9.671E-04	3.230E-04	-2.415E-04	-1.071E-03	-1.644E-03	-2.078E-03	-2.704E-03	-3.342E-03	-4.054E-03	-4.558E-03	-5.276E-03	-5.785E-03	
60	-6.595E-04	-2.036E-03	-2.969E-03	-4.193E-03	-5.001E-03	-5.600E-03	-6.475E-03	-7.387E-03	-8.440E-03	-9.213E-03	-1.035E-02	-1.118E-02	
75	-4.200E-03	-5.794E-03	-6.827E-03	-8.178E-03	-9.088E-03	-9.778E-03	-1.082E-02	-1.194E-02	-1.330E-02	-1.433E-02	-1.599E-02	-1.709E-02	
90	-8.088E-03	-9.562E-03	-1.052E-02	-1.185E-02	-1.279E-02	-1.352E-02	-1.466E-02	-1.594E-02	-1.754E-02	-1.880E-02	-2.078E-02	-2.234E-02	
120	-1.170E-02	-1.278E-02	-1.357E-02	-1.475E-02	-1.563E-02	-1.635E-02	-1.750E-02	-1.866E-02	-2.064E-02	-2.209E-02	-2.449E-02	-2.647E-02	
150	-7.974E-03	-8.665E-03	-9.184E-03	-9.957E-03	-1.054E-02	-1.102E-02	-1.179E-02	-1.271E-02	-1.393E-02	-1.495E-02	-1.668E-02	-1.817E-02	
179	-2.890E-04	-3.151E-04	-3.345E-04	-3.632E-04	-3.848E-04	-4.024E-04	-4.310E-04	-4.650E-04	-5.104E-04	-5.487E-04	-6.141E-04	-6.708E-04	
		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
DEG													
1	1.440E-06	1.432E-06	1.359E-06	1.234E-06	1.127E-06	9.590E-07	8.362E-07	7.423E-07	6.077E-07	4.793E-07	3.557E-07	2.833E-07	
2	5.106E-06	4.779E-06	4.311E-06	3.686E-06	3.218E-06	2.571E-06	2.146E-06	1.846E-06	1.449E-06	1.104E-06	7.962E-07	6.256E-07	
3	9.745E-06	8.677E-06	7.405E-06	5.776E-06	4.722E-06	3.310E-06	2.430E-06	1.916E-06	1.316E-06	8.762E-07	5.571E-07	4.093E-07	
4	1.428E-05	1.191E-05	9.284E-06	6.230E-06	4.257E-06	1.962E-06	7.626E-07	4.524E-08	-5.841E-07	-8.308E-07	-8.660E-07	-7.741E-07	
6	1.891E-05	1.201E-05	4.741E-06	-2.761E-06	-7.156E-06	-1.152E-05	-1.316E-05	-1.363E-05	-1.321E-05	-1.173E-05	-9.665E-06	-7.161E-06	
8	1.095E-05	-3.173E-06	-1.741E-05	-3.133E-05	-3.886E-05	-4.518E-05	-4.637E-05	-4.552E-05	-4.187E-05	-3.598E-05	-2.841E-05	-2.255E-05	
10	-1.616E-05	-4.024E-05	-6.385E-05	-8.599E-05	-9.716E-05	-1.048E-04	-1.042E-04	-1.005E-04	-9.074E-05	-7.702E-05	-6.030E-05	-4.998E-05	
15	-1.991E-04	-2.598E-04	-3.168E-04	-3.665E-04	-3.879E-04	-3.940E-04	-3.870E-04	-3.613E-04	-3.206E-04	-2.688E-04	-2.087E-04	-1.696E-04	
20	-5.901E-04	-7.026E-04	-8.061E-04	-8.916E-04	-9.232E-04	-9.179E-04	-8.777E-04	-8.279E-04	-7.297E-04	-6.091E-04	-4.715E-04	-3.826E-04	
30	-2.104E-03	-2.359E-03	-2.590E-03	-2.768E-03	-2.818E-03	-2.756E-03	-2.615E-03	-2.456E-03	-2.155E-03	-1.793E-03	-1.385E-03	-1.073E-03	
45	-6.174E-03	-6.730E-03	-7.235E-03	-7.620E-03	-7.711E-03	-7.514E-03	-7.127E-03	-6.696E-03	-5.884E-03	-4.905E-03	-3.796E-03	-2.598E-03	
60	-1.183E-02	-1.279E-02	-1.370E-02	-1.443E-02	-1.466E-02	-1.439E-02	-1.373E-02	-1.297E-02	-1.148E-02	-9.633E-03	-7.944E-03	-6.844E-03	
75	-1.805E-02	-1.951E-02	-2.097E-02	-2.229E-02	-2.284E-02	-2.278E-02	-2.200E-02	-2.098E-02	-1.881E-02	-1.596E-02	-1.253E-02	-1.024E-02	
90	-2.362E-02	-2.564E-02	-2.779E-02	-2.999E-02	-3.115E-02	-3.178E-02	-3.126E-02	-3.022E-02	-2.764E-02	-2.387E-02	-1.902E-02	-1.566E-02	
120	-2.819E-02	-3.109E-02	-3.455E-02	-3.884E-02	-4.191E-02	-4.575E-02	-4.762E-02	-4.824E-02	-4.739E-02	-4.389E-02	-3.727E-02	-3.170E-02	
150	-1.950E-02	-2.185E-02	-2.489E-02	-2.917E-02	-3.282E-02	-3.889E-02	-4.378E-02	-4.776E-02	-5.355E-02	-5.822E-02	-5.947E-02	-5.683E-02	
179	-7.222E-04	-8.148E-04	-9.379E-04	-1.120E-03	-1.285E-03	-1.588E-03	-1.871E-03	-2.142E-03	-2.665E-03	-3.421E-03	-4.649E-03	-5.856E-03	
		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
DEG													
1	2.016E-07	1.566E-07	1.280E-07	9.384E-08	6.702E-08	4.540E-08	3.433E-08	2.308E-08	1.738E-08	1.394E-08	9.985E-09	7.005E-09	
2	4.400E-07	3.401E-07	2.774E-07	2.029E-07	1.447E-07	9.794E-08	7.404E-08	4.976E-08	3.747E-08	3.005E-08	2.153E-08	1.510E-08	
3	2.699E-07	2.028E-07	1.630E-07	1.176E-07	8.317E-08	5.604E-08	4.229E-08	2.839E-08	2.137E-08	1.713E-08	1.227E-08	8.608E-09	
4	-6.032E-07	-4.853E-07	-4.038E-07	-3.008E-07	-2.168E-07	-1.476E-07	-1.118E-07	-7.525E-08	-5.670E-08	-4.548E-08	-3.259E-08	-2.245E-08	
6	-5.736E-06	-4.511E-06	-3.711E-06	-2.736E-06	-1.961E-06	-1.331E-06	-1.007E-06	-6.771E-07	-5.101E-07	-4.091E-07	-2.931E-07	-2.056E-07	
8	-1.694E-05	-1.328E-05	-1.091E-05	-8.033E-06	-5.752E-06	-3.902E-06	-2.952E-06	-1.985E-06	-1.495E-06	-1.199E-06	-8.591E-07	-6.027E-07	
10	-3.572E-05	-2.797E-05	-2.297E-05	-1.690E-05	-1.219E-05	-8.206E-06	-6.208E-06	-4.174E-06	-3.144E-06	-2.522E-06	-1.807E-06	-1.267E-06	
15	-1.228E-04	-9.610E-05	-7.886E-05	-5.800E-05	-4.159E-05	-2.814E-05	-2.129E-05	-1.431E-05	-1.078E-05	-8.648E-06	-6.195E-06	-4.346E-06	
20	-2.768E-04	-2.164E-04	-1.775E-04	-1.306E-04	-9.341E-05	-6.334E-05	-4.791E-05	-3.221E-05	-2.426E-05	-1.946E-05	-1.394E-05	-9.780E-06	
30	-8.121E-04	-6.348E-04	-5.207E-04	-3.829E-04	-2.739E-04	-1.857E-04	-1.405E-04	-9.446E-05	-7.115E-05	-5.706E-05	-4.088E-05	-2.868E-05	
45	-2.228E-03	-1.743E-03	-1.430E-03	-1.051E-03	-7.522E-04	-5.101E-04	-3.859E-04	-2.594E-04	-1.954E-04	-1.567E-04	-1.123E-04	-7.877E-05	
60	-4.420E-03	-3.460E-03	-2.840E-03	-2.089E-03	-1.495E-03	-1.014E-03	-7.671E-04	-5.158E-04	-3.885E-04	-3.116E-04	-2.232E-04	-1.566E-04	
75	-7.454E-03	-5.844E-03	-4.801E-03	-3.535E-03	-2.531E-03	-1.717E-03	-1.299E-03	-8.734E-04	-6.579E-04	-5.277E-04	-3.780E-04	-2.652E-04	
90	-1.147E-02	-9.020E-03	-7.421E-03	-5.471E-03	-3.920E-03	-2.660E-03	-2.013E-03	-1.354E-03	-1.020E-03	-8.179E-04	-5.860E-04	-4.111E-04	
120	-2.394E-02	-1.907E-02	-1.580E-02	-1.172E-02	-8.430E-03	-5.734E-03	-4.342E-03	-2.922E-03	-2.201E-03	-1.766E-03	-1.265E-03	-8.875E-04	
150	-4.872E-02	-4.126E-02	-3.534E-02	-2.711E-02	-1.989E-02	-1.368E-02	-1.040E-02	-7.022E-03	-5.297E-03	-4.251E-03	-3.047E-03	-2.138E-03	
179	-8.239E-03	-1.059E-02	-1.292E-02	-1.748E-02	-2.403E-02	-3.400E-02	-4.251E-02	-5.477E-02	-6.129E-02	-6.360E-02	-6.140E-02	-5.292E-02	

S	(16)	SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MeV)	
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
DEG													
1	1.004F-07	6.921E-08	2.015E-07	2.489E-07	3.801E-07	3.642E-07	5.809E-07	8.154E-07	1.128E-06	1.347E-06	1.541E-06	1.614E-06	
2	2.351F-07	3.915E-07	8.251E-07	9.336E-07	9.621E-07	1.360E-06	2.376E-06	3.713E-06	4.982E-06	5.547E-06	5.931E-06	5.955E-06	
3	1.065F-07	1.443E-06	1.712E-06	2.292E-06	2.429E-06	3.812E-06	6.560E-06	9.238E-06	1.132E-05	1.223E-05	1.241E-05	1.194E-05	
4	7.629F-07	2.983E-06	2.100E-06	2.047E-06	4.137E-06	7.944E-06	1.306E-05	1.748E-05	2.027E-05	2.083E-05	2.804E-05	1.874E-05	
6	5.696E-06	3.451E-06	5.002E-06	6.396E-06	1.615E-05	2.435E-05	3.464E-05	4.094E-05	4.233E-05	4.042E-05	3.668E-05	2.932E-05	
8	1.035F-05	-1.722E-06	-8.872E-07	1.998E-05	3.944E-05	5.273E-05	6.580E-05	7.007E-05	6.522E-05	5.715E-05	4.209E-05	2.961E-05	
10	6.266F-06	-9.175E-06	5.025E-06	4.122E-05	7.595E-05	9.175E-05	1.027E-04	9.937E-05	8.220E-05	6.445E-05	3.483E-05	1.217E-05	
15	-3.901F-05	1.205E-05	8.694E-05	1.758E-04	2.051E-04	2.079E-04	1.846E-04	1.351E-04	6.114E-05	2.706E-06	-8.320E-05	-1.446E-04	
20	-3.439F-05	1.552E-04	2.737E-04	3.452E-04	3.270E-04	2.830E-04	1.832E-04	5.215E-05	-1.111E-04	-2.301E-04	-3.978E-04	-5.149E-04	
30	4.530F-04	6.926E-04	6.768E-04	4.559E-04	2.142E-04	2.428E-04	-3.335E-04	-6.930E-04	-1.095E-03	-1.375F-03	-1.760E-03	-2.029E-03	
45	1.258F-04	6.377E-04	2.748E-03	-9.092E-04	-1.571E-03	-2.069E-03	-2.790E-03	-3.519E-03	-4.320E-03	-4.881E-03	-5.669E-03	-6.222E-03	
60	-2.429F-04	-1.811E-03	-2.890E-03	-4.326E-03	-5.244E-03	-5.960E-03	-6.961E-03	-7.992E-03	-9.161E-03	-1.001E-02	-1.124E-02	-1.213E-02	
75	-4.148E-03	-6.025E-03	-7.238E-03	-8.813E-03	-9.841E-03	-1.065E-02	-1.182E-02	-1.307E-02	-1.456E-02	-1.588E-02	-1.736E-02	-1.863E-02	
90	-8.625F-03	-1.034E-02	-1.147E-02	-1.249E-02	-1.406E-02	-1.488E-02	-1.615E-02	-1.756E-02	-1.930E-02	-2.066E-02	-2.277E-02	-2.442E-02	
120	-1.294F-02	-1.414E-02	-1.504E-02	-1.635E-02	-1.733E-02	-1.812E-02	-1.940E-02	-2.088E-02	-2.270E-02	-2.437E-02	-2.693E-02	-2.905E-02	
150	-8.833F-03	-9.604E-03	-1.010E-02	-1.105E-02	-1.170E-02	-1.223E-02	-1.308E-02	-1.409E-02	-1.542E-02	-1.652E-02	-1.838E-02	-1.997E-02	
179	-3.197F-04	-3.489E-04	-3.706E-04	-4.028E-04	-4.270E-04	-4.466E-04	-4.783E-04	-5.156E-04	-5.651E-04	-6.064E-04	-6.768E-04	-7.378E-04	
		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
DEG													
1	1.617E-06	1.621E-06	1.551E-06	1.418E-06	1.308E-06	1.112E-06	9.722E-07	8.647E-07	7.096E-07	5.607E-07	4.167E-07	3.320E-07	
2	5.850E-06	5.507E-06	5.043E-06	4.360E-06	3.877E-06	3.046E-06	2.562E-06	2.259E-06	1.752E-06	1.371F-06	9.740E-07	7.673E-07	
3	1.140E-05	1.029E-05	8.877E-06	7.176E-06	5.944E-06	4.360E-06	3.403E-06	2.774E-06	2.011E-06	1.421E-06	9.589E-07	7.284E-07	
4	1.713E-05	1.461E-05	1.175E-05	8.353E-06	6.122F-06	3.469E-06	2.032E-06	1.187E-06	3.227E-07	-1.606E-07	-3.580E-07	-3.732E-07	
6	2.462F-05	1.710E-05	9.074E-06	6.849E-07	-4.314E-06	-9.438E-06	-1.153E-05	-1.229E-05	-1.223E-05	-1.103E-05	-8.998E-06	-7.452E-06	
8	1.943E-05	3.892E-06	-1.190E-05	-2.748E-05	-3.607E-05	-4.361E-05	-4.544E-05	-4.496E-05	-4.170E-05	-3.602E-05	-2.844E-05	-2.339E-05	
10	-5.738F-06	-3.235E-05	-5.857F-05	-8.336E-05	-9.610E-05	-1.054E-04	-1.055E-04	-9.262E-05	-9.269E-05	-7.889E-05	-6.188E-05	-5.051E-05	
15	-1.915F-04	-2.586E-04	-3.217E-04	-3.772E-04	-4.015E-04	-4.100E-04	-3.971E-04	-3.774E-04	-3.354E-04	-2.815E-04	-2.187E-04	-1.778E-04	
20	-6.023F-04	-7.264E-04	-8.404E-04	-9.348E-04	-9.704E-04	-9.571E-04	-9.257E-04	-8.737E-04	-7.705E-04	-6.346E-04	-4.982E-04	-4.044E-04	
30	-2.224E-03	-2.503E-03	-2.753E-03	-2.946E-03	-3.000E-03	-2.935E-03	-2.784E-03	-2.615E-03	-2.294E-03	-1.909E-03	-1.475E-03	-1.196E-03	
45	-6.642E-03	-7.238E-03	-7.770E-03	-8.180E-03	-8.272E-03	-8.051E-03	-7.631E-03	-7.167E-03	-6.293E-03	-5.244E-03	-4.057E-03	-3.292E-03	
60	-1.283E-02	-1.384E-02	-1.479E-02	-1.556E-02	-1.578E-02	-1.546E-02	-1.474E-02	-1.392E-02	-1.231E-02	-1.032E-02	-8.022E-03	-6.525E-03	
75	-1.965E-02	-2.119E-02	-2.272E-02	-2.409E-02	-2.465E-02	-2.452E-02	-2.366E-02	-2.254E-02	-2.018E-02	-1.711E-02	-1.343E-02	-1.097E-02	
90	-2.578E-02	-2.791E-02	-3.018E-02	-3.247E-02	-3.367E-02	-3.427E-02	-3.366E-02	-3.250E-02	-2.969E-02	-2.561E-02	-2.039E-02	-1.678E-02	
120	-3.088E-02	-3.396E-02	-3.764E-02	-4.219E-02	-4.545E-02	-4.949E-02	-5.142E-02	-5.203E-02	-5.102E-02	-4.718E-02	-4.000E-02	-3.400E-02	
150	-2.146F-02	-2.342E-02	-2.718E-02	-3.177E-02	-3.569E-02	-4.221E-02	-4.746E-02	-5.172E-02	-5.790E-02	-6.284E-02	-6.405E-02	-6.112E-02	
179	-7.931F-04	-8.926E-04	-1.025E-03	-1.221E-03	-1.399E-03	-1.726E-03	-2.032E-03	-2.326E-03	-2.891E-03	-3.711E-03	-5.404E-03	-6.348E-03	
		3.0E+00	4.0E+00	5.0E+00	7.0F+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
DEG													
1	2.364E-07	1.837E-07	1.502F-07	1.101E-07	7.844E-08	5.328E-08	4.029E-08	2.708E-08	2.040E-08	1.636E-08	1.172F-08	8.220E-09	
2	5.408F-07	4.184E-07	3.415E-07	2.498E-07	1.782E-07	1.207E-07	9.122E-08	6.131E-08	4.617E-08	3.703E-08	2.713F-08	1.861E-08	
3	4.965F-07	3.787E-07	3.067F-07	2.229E-07	1.587E-07	1.070E-07	8.080E-08	5.427E-08	4.086E-08	3.277E-08	2.347E-08	1.646E-08	
4	-3.202F-07	-2.662E-07	-2.247E-07	-1.698E-07	-1.212E-07	-8.432E-08	-6.397E-08	-4.311E-08	-3.249E-08	-2.607E-08	-1.868E-08	-1.311E-08	
6	-5.486E-06	-4.320E-06	-3.557E-06	-2.624E-06	-1.881E-06	-1.277E-06	-9.660E-07	-6.497E-07	-4.894E-07	-3.925E-07	-2.812F-07	-1.973E-07	
8	-1.706F-05	-1.338E-05	-1.100E-05	-8.100E-06	-5.800E-06	-3.935E-06	-2.977E-06	-2.002E-06	-1.508E-06	-1.210E-06	-8.665E-07	-6.079E-07	
10	-3.671E-05	-2.876E-05	-2.362E-05	-1.738E-05	-1.244E-05	-8.439E-06	-6.384E-06	-4.293E-06	-3.234E-06	-2.594E-06	-1.858E-06	-1.303E-06	
15	-1.288E-04	-1.008E-04	-8.269E-05	-6.082E-05	-4.352E-05	-2.951E-05	-2.233E-05	-1.501E-05	-1.131E-05	-9.068E-06	-6.496E-06	-4.557E-06	
20	-2.925F-04	-2.287E-04	-1.877E-04	-1.390E-04	-9.872E-05	-6.695E-05	-4.064E-05	-3.405E-05	-2.565E-05	-2.057E-05	-1.474E-05	-1.034E-05	
30	-8.442E-04	-6.756E-04	-5.542F-04	-4.074E-04	-2.915E-04	-1.977E-04	-1.495E-04	-1.005E-04	-7.572E-05	-6.073E-05	-4.350E-05	-3.852E-05	
45	-2.381F-03	-1.862E-03	-1.273E-03	-1.123E-03	-8.076E-04	-5.449E-04	-4.122E-04	-2.771E-04	-2.087E-04	-1.679E-04	-1.199E-04	-8.414E-05	
60	-4.736F-03	-3.762E-03	-3.039E-03	-2.235E-03	-1.600E-03	-1.085E-03	-8.207E-04	-5.518E-04	-4.156E-04	-3.334F-04	-2.388E-04	-1.675E-04	
75	-7.981E-03	-6.257E-03	-5.140E-03	-3.784E-03	-2.709E-03	-1.838E-03	-1.390E-03	-9.350E-04	-7.042E-04	-5.648E-04	-4.046E-04	-2.839E-04	
90	-1.229F-02	-9.661E-03	-7.947E-03	-5.859E-03	-4.198E-03	-2.838E-03	-2.156E-03	-1.450E-03	-1.092E-03	-8.758E-04	-6.274E-04	-4.602E-04	
120	-2.566E-02	-2.043E-02	-1.492E-02	-1.256E-02	-9.079E-03	-6.141E-03	-4.650E-03	-3.129E-03	-2.357E-03	-1.891E-03	-1.355E-03	-9.505E-04	
150	-5.236F-02	-4.426E-02	-3.784E-02	-2.905E-02	-2.171E-02	-1.555E-02	-1.114E-02	-7.521E-03	-5.673E-03	-4.553E-03	-3.263E-03	-2.290E-03	
179	-8.930F-03	-1.148E-02	-1.400E-02	-1.894E-02	-2.004E-02	-3.682E-02	-4.601E-02	-5.919E-02	-6.613E-02	-6.854E-02	-6.604F-02	-5.052E-02	

CL (17)		SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM								ENERGY (MeV)					
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02		
DEG															
1	9.746E-04	1.538E-07	1.872E-07	3.363E-07	4.064E-07	4.500E-07	5.788E-07	8.313E-07	1.1E3E-06	1.415E-06	1.671E-06	1.774E-06			
2	3.174E-07	3.143E-07	6.967E-07	9.259E-07	9.061E-07	1.249E-06	2.363E-06	3.608E-06	5.273E-06	5.944E-06	6.443E-06	6.450E-06			
3	8.939E-04	1.183E-06	1.870E-06	1.644E-06	1.380E-06	3.211E-06	6.004E-06	1.299E-06	1.210E-05	1.351E-05	1.335E-05	1.376E-05			
4	-1.072E-07	3.010E-06	2.930E-06	1.863E-06	3.750E-06	6.725E-06	1.247E-05	1.817E-05	2.215E-05	2.328E-05	2.300E-05	2.156E-05			
6	4.276E-04	5.848E-06	1.459E-06	3.754E-06	1.317E-05	2.237E-05	3.524E-05	4.427E-05	4.782E-05	4.667E-05	4.142E-05	3.584E-05			
8	1.288E-05	1.707E-06	-3.710E-06	1.356E-05	3.53E-05	5.161E-05	6.995E-05	7.842E-05	7.610E-05	6.884E-05	5.330E-05	4.000E-05			
10	1.541E-05	-4.332E-06	-4.107E-06	3.788E-05	7.278E-05	9.439E-05	1.132E-04	1.150E-04	1.000E-04	8.206E-05	5.068E-05	2.600E-05			
15	-1.564E-05	-1.567E-05	6.095E-05	1.736E-04	2.215E-04	2.352E-04	2.217E-04	1.747E-04	9.701E-05	3.359E-05	-6.078E-05	-1.284E-04			
20	-0.093E-05	1.065E-04	2.580E-04	3.796E-04	3.049E-04	3.504E-04	2.521E-04	1.140E-04	-6.505E-05	-1.970E-04	-3.831E-04	-5.122E-04			
30	3.678E-04	7.372E-04	7.919E-04	6.129E-04	3.073E-04	1.397E-04	-2.317E-04	-0.353E-04	-1.087E-03	-1.400E-03	-1.828E-03	-2.121E-03			
45	1.529E-03	9.800E-04	3.412E-04	-6.968E-04	-1.449E-03	-2.018E-03	-2.842E-03	-3.671E-03	-4.572E-03	-5.194E-03	-6.058E-03	-6.658E-03			
60	2.516E-04	-1.502E-03	-2.740E-03	-4.400E-03	-5.444E-03	-6.284E-03	-7.427E-03	-8.588E-03	-1.081E-02	-1.214E-02	-1.310E-02	-1.310E-02			
75	-3.992E-03	-6.174E-03	-7.593E-03	-9.416E-03	-1.062E-02	-1.152E-02	-1.284E-02	-1.423E-02	-1.585E-02	-1.766E-02	-1.887E-02	-2.022E-02			
90	-9.113E-03	-1.110E-02	-1.241E-02	-1.415E-02	-1.535E-02	-1.627E-02	-1.768E-02	-1.923E-02	-2.112E-02	-2.258E-02	-2.483E-02	-2.658E-02			
120	-1.421E-02	-1.556E-02	-1.655E-02	-1.801E-02	-1.909E-02	-1.997E-02	-2.137E-02	-2.294E-02	-2.506E-02	-2.674E-02	-2.947E-02	-3.172E-02			
150	-9.724E-03	-1.058E-02	-1.124E-02	-1.218E-02	-1.240E-02	-1.349E-02	-1.443E-02	-1.553E-02	-1.697E-02	-1.815E-02	-2.015E-02	-2.185E-02			
179	-3.514E-04	-3.837E-04	-4.079E-04	-4.438E-04	-4.707E-04	-4.925E-04	-5.275E-04	-5.684E-04	-6.221E-04	-6.667E-04	-7.423E-04	-8.077E-04			
		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00		
DEG															
1	1.793E-06	1.785E-06	1.751E-06	1.612E-06	1.457E-06	1.274E-06	1.117E-06	9.953E-07	8.185E-07	6.479E-07	4.821E-07	3.843E-07			
2	6.564E-06	6.324E-06	5.810E-06	5.081E-06	4.202E-06	3.674E-06	3.113E-06	2.707E-06	2.157E-06	1.664E-06	1.213E-06	9.578E-07			
3	1.313E-05	1.201E-05	1.051E-05	8.651E-06	7.274E-06	5.480E-06	4.370E-06	3.627E-06	2.704E-06	1.963E-06	1.344E-06	1.036E-06			
4	2.015E-05	1.764E-05	1.444E-05	1.070E-05	8.195E-06	5.159E-06	3.464E-06	2.433E-06	1.317E-06	6.073E-07	2.026E-07	6.988E-08			
6	3.086E-05	2.274E-05	1.795E-05	4.638E-06	-1.002E-06	-6.949E-06	-9.540E-06	-1.063E-05	-1.099E-05	-1.013E-05	-8.354E-06	-6.962E-06			
8	2.898E-05	1.200E-05	-5.401E-06	-2.276E-05	-3.244E-05	-4.136E-05	-4.391E-05	-4.388E-05	-4.109E-05	-3.572E-05	-2.841E-05	-2.333E-05			
10	6.407E-06	-2.284E-05	-5.180E-05	-7.942E-05	-9.387E-05	-1.051E-04	-1.061E-04	-1.032E-04	-9.401E-05	-8.027E-05	-6.310E-05	-5.155E-05			
15	-1.403E-04	-2.543E-04	-3.241E-04	-3.855E-04	-4.130E-04	-4.243E-04	-4.120E-04	-3.922E-04	-3.491E-04	-2.933E-04	-2.281E-04	-1.855E-04			
20	-0.098E-04	-7.456E-04	-8.708E-04	-9.749E-04	-1.015E-03	-1.014E-03	-9.718E-04	-8.100E-04	-6.767E-04	-5.241E-04	-4.254E-04				
30	-2.338E-01	-2.642E-03	-2.913E-03	-3.121E-03	-3.180E-03	-3.111E-03	-2.952E-03	-2.772E-03	-2.432E-03	-2.023E-03	-1.563E-03	-1.267E-03			
45	-7.111E-01	-7.749E-03	-8.320E-03	-8.745E-03	-8.634E-03	-8.591E-03	-8.137E-03	-7.638E-03	-6.704E-03	-5.544E-03	-4.318E-03	-3.503E-03			
60	-1.384E-02	-1.441E-02	-1.591E-02	-1.670E-02	-1.691E-02	-1.655E-02	-1.576E-02	-1.487E-02	-1.314E-02	-1.101E-02	-8.553E-03	-6.956E-03			
75	-2.129E-02	-2.291E-02	-2.451E-02	-2.593E-02	-2.644E-02	-2.629E-02	-2.534E-02	-2.411E-02	-2.157E-02	-1.827E-02	-1.433E-02	-1.170E-02			
90	-2.801E-02	-3.026E-02	-3.263E-02	-3.502E-02	-3.674E-02	-3.680E-02	-3.604E-02	-3.482E-02	-3.176E-02	-2.737E-02	-2.178E-02	-1.791E-02			
120	-3.367E-02	-3.694E-02	-4.084E-02	-4.565E-02	-4.909E-02	-5.132E-02	-5.31E-02	-5.589E-02	-5.471E-02	-5.051E-02	-4.276E-02	-3.632E-02			
150	-2.337E-02	-2.607E-02	-2.955E-02	-3.446E-02	-3.846E-02	-4.563E-02	-5.123E-02	-5.578E-02	-6.235E-02	-6.755E-02	-6.871E-02	-6.547E-02			
179	-8.669E-04	-9.736E-04	-1.110E-03	-1.326E-03	-1.517E-03	-1.670E-03	-2.199E-03	-2.515E-03	-3.125E-03	-4.008E-03	-5.443E-03	-6.854E-03			
		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02		
DEG															
1	2.738E-07	2.127E-07	1.740E-07	1.276E-07	9.111E-08	6.173E-08	4.668E-08	3.138E-08	2.363E-08	1.895E-08	1.358E-08	9.524E-09			
2	6.766E-07	5.240E-07	4.278E-07	3.131E-07	2.234E-07	1.513E-07	1.144E-07	7.687E-08	5.789E-08	4.643E-08	3.326E-08	2.333E-08			
3	7.135E-07	5.470E-07	4.444E-07	3.237E-07	2.332E-07	1.557E-07	1.177E-07	8.005E-08	5.952E-08	4.673E-08	3.662E-08	2.427E-08			
4	-0.992E-09	-2.359E-08	-2.682E-08	-2.483E-08	-1.984E-08	-1.424E-08	-1.097E-08	-7.497E-09	-5.675E-09	-4.563E-09	-3.275E-09	-2.300E-09			
6	-5.147E-06	-4.059E-06	-3.745E-06	-2.469E-06	-1.771E-06	-1.202E-06	-0.998E-07	-6.119E-07	-4.609E-07	-3.697E-07	-2.649E-07	-1.858E-07			
8	-1.704E-05	-1.337E-05	-1.097E-05	-8.098E-06	-5.880E-06	-3.935E-06	-2.977E-06	-2.002E-06	-1.508E-06	-1.210E-06	-8.665E-07	-6.799E-07			
10	-3.749E-05	-2.938E-05	-2.413E-05	-1.776E-05	-1.272E-05	-8.625E-06	-6.528E-06	-4.388E-06	-3.305E-06	-2.651E-06	-1.899E-06	-1.322E-06			
15	-1.344E-04	-1.051E-04	-8.627E-05	-6.347E-05	-4.747E-05	-3.080E-05	-2.330E-05	-1.567E-05	-1.180E-05	-9.464E-06	-6.780E-06	-4.756E-06			
20	-3.078E-04	-2.407E-04	-1.975E-04	-1.452E-04	-1.039E-04	-7.049E-05	-5.329E-05	-3.583E-05	-2.699E-05	-2.164E-05	-1.551E-05	-1.088E-05			
30	-9.159E-04	-7.160E-04	-5.973E-04	-4.318E-04	-3.089E-04	-1.995E-04	-1.584E-04	-1.065E-04	-8.024E-05	-6.436E-05	-4.610E-05	-3.234E-05			
45	-2.533E-03	-1.981E-03	-1.625E-03	-1.195E-03	-8.549E-04	-5.797E-04	-4.385E-04	-2.949E-04	-2.221E-04	-1.781E-04	-1.267E-04	-8.952E-05			
75	-8.512E-03	-6.672E-03	-5.481E-03	-4.035E-03	-2.889E-03	-1.960E-03	-1.742E-03	-9.69E-04	-4.529E-04	-3.552E-04	-2.545E-04	-1.789E-04			
90	-1.311E-02	-1.031E-02	-8.478E-03	-6.249E-03	-4.477E-03	-3.038E-03	-2.299E-03	-1.546E-03	-1.165E-03	-9.341E-04	-6.692E-04	-4.695E-04			
120	-2.740E-02	-2.181E-02	-1.806E-02	-1.340E-02	-9.073E-03	-6.551E-03	-4.900E-03	-3.338E-03	-2.515E-03	-2.017E-03	-1.445E-03	-1.014E-03			
150	-5.593E-02	-4.729E-02	-4.041E-02	-3.101E-02	-2.277E-02	-1.563E-02	-1.184E-02	-8.023E-03	-6.051E-03	-4.856E-03	-3.481E-03	-2.443E-03			
179	-9.646E-03	-1.239E-02	-1.511E-02	-2.044E-02	-2.609E-02	-3.471E-02	-4.958E-02	-6.370E-02	-7.108E-02	-7.357E-02	-7.075E-02	-6.077E-02			

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	2.521F-08	1.334E-07	1.242E-07	3.294E-07	4.290E-07	4.772E-07	5.841E-07	9.038E-07	1.207E-06	1.451E-06	1.776F-06	4.0E-02
2	3.244E-07	2.541E-07	6.526E-07	1.151E-06	1.147E-06	1.194E-06	2.208E-06	3.502E-06	5.325E-06	6.231E-06	7.087F-06	1.524E-06
3	4.935E-07	7.032E-07	1.990E-06	2.084E-06	1.994E-06	2.810E-06	5.737E-06	9.311E-06	1.271E-05	1.462F-05	1.552E-05	1.544E-05
4	2.644E-07	2.502E-06	3.647E-06	2.084E-06	2.571E-06	5.712E-06	1.169E-05	1.464E-05	2.173E-05	2.522F-05	2.598F-05	2.594E-05
5	1.607E-06	6.931E-06	3.410E-06	7.013E-06	9.409E-06	1.953E-05	1.470E-05	4.684E-05	5.305E-05	5.304F-05	4.834F-05	4.274E-05
6	1.231E-06	6.921E-06	3.410E-06	7.013E-06	9.409E-06	1.953E-05	1.470E-05	4.684E-05	5.305E-05	5.304F-05	4.834F-05	4.274E-05
7	2.262E-05	4.801E-06	1.046F-05	2.634E-05	2.720E-05	9.395E-05	2.581E-04	2.581E-04	2.581E-04	1.009E-04	6.809F-05	5.134E-05
8	1.958E-05	3.916E-05	3.003F-05	1.624E-04	2.316E-04	2.581E-04	2.581E-04	2.581E-04	1.009E-04	6.809F-05	4.809F-05	4.153E-05
9	1.125E-04	4.691E-04	8.470E-04	4.020E-04	4.374E-04	4.174E-04	1.835E-04	1.835E-04	1.055E-05	1.557F-04	3.611F-04	1.983E-04
10	2.438E-04	7.448E-04	8.470E-04	4.020E-04	4.374E-04	4.174E-04	1.835E-04	1.835E-04	1.055E-05	1.557F-04	3.611F-04	1.983E-04
11	1.761F-03	1.338E-03	6.941E-04	4.335E-04	1.277E-03	2.948E-04	1.086E-04	1.086E-04	1.063E-03	1.412F-03	1.886F-03	2.507E-03
12	8.129E-04	1.105E-03	2.513F-03	4.607E-03	5.654E-03	5.67E-03	2.858E-03	3.796E-03	4.806E-03	5.248F-03	6.442F-03	7.092E-03
13	3.724E-03	5.247E-03	7.801E-03	9.981E-03	1.133E-02	1.237E-02	1.366E-02	1.540E-02	1.710E-02	1.872F-02	2.041F-02	2.183E-02
14	9.532E-03	1.183E-02	1.333F-02	1.531E-02	1.644E-02	1.769E-02	1.926E-02	2.095E-02	2.300E-02	2.454F-02	2.626F-02	2.811E-02
15	1.552E-02	1.701E-02	1.811E-02	1.972E-02	2.109E-02	2.214E-02	2.362E-02	2.517E-02	2.741E-02	2.871F-02	3.121F-02	3.350E-02
16	1.064F-02	1.158E-02	1.229E-02	1.335E-02	1.479E-02	1.582E-02	1.582E-02	1.702E-02	1.858E-02	1.948F-02	2.119F-02	2.381E-02
17	3.840E-04	4.197E-04	4.454E-04	4.861E-04	5.159E-04	5.400E-04	5.785E-04	6.232E-04	6.814E-04	7.295E-04	8.105F-04	8.405E-04
18	5.0E-02	7.0E-02	1.0E-01	1.5F-01	2.0F-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
19	1.591E-06	1.988E-06	1.957E-06	1.814E-06	1.674E-06	1.446E-06	1.271E-06	1.134E-06	9.343E-07	7.406E-07	5.517F-07	4.401E-07
20	7.366E-06	7.144E-06	6.632E-06	5.846E-06	5.217E-06	4.290E-06	3.655E-06	3.191E-06	2.558E-06	1.940F-06	1.449F-06	1.140E-06
21	1.492E-05	1.383E-05	1.225E-05	1.018E-05	8.670E-06	6.635E-06	5.389E-06	4.527E-06	3.438E-06	2.518F-06	1.784F-06	1.384E-06
22	2.333E-05	2.062E-05	1.744E-05	1.325E-05	1.047E-05	7.032E-06	4.827E-06	3.276E-06	2.433E-06	1.474F-06	8.376F-07	5.725E-07
23	3.761E-05	2.894E-05	1.936F-05	9.102E-06	2.784E-06	4.049E-06	7.188E-06	8.654E-06	9.475E-06	9.002F-06	7.500F-06	6.344E-06
24	3.958E-05	2.116E-05	2.030E-05	1.713E-05	2.507E-05	3.840E-05	4.178E-05	4.225E-05	4.400E-05	4.503E-05	4.802F-05	5.205E-05
25	2.029E-05	1.167E-05	4.331E-05	7.408E-05	9.037E-05	1.036E-04	1.056E-04	1.033E-04	9.465E-05	8.111F-05	6.391F-05	5.727E-05
26	1.652E-05	2.466E-04	2.33F-04	3.913E-04	4.227E-04	4.367E-04	4.254E-04	4.056E-04	3.610E-04	3.043F-04	2.368F-04	1.926E-04
27	6.108E-04	7.599E-04	8.971E-04	1.012E-03	1.054E-03	1.059E-03	1.016E-03	9.501E-04	8.479E-04	7.087E-04	5.491F-04	4.458E-04
28	2.444E-03	2.755E-03	3.066F-03	3.293E-03	3.357E-03	3.286E-03	3.119E-03	2.928E-03	2.568E-03	2.137E-03	1.650F-03	1.338E-03
29	7.579E-03	8.261E-03	8.867F-03	9.312E-03	9.404E-03	9.133E-03	8.644E-03	8.112E-03	7.115E-03	5.924F-03	4.579F-03	3.715E-03
30	1.487E-02	1.600E-02	1.705E-02	1.786E-02	1.804E-02	1.765E-02	1.674E-02	1.583E-02	1.371E-02	1.10E-02	9.047E-03	7.388E-03
31	2.298E-02	2.468E-02	2.634E-02	2.781E-02	2.879E-02	2.809E-02	2.704E-02	2.571E-02	2.297E-02	1.944E-02	1.523E-02	1.244E-02
32	3.032E-02	3.267E-02	3.515E-02	3.763E-02	3.847E-02	3.698E-02	3.497E-02	3.171E-02	2.797E-02	2.291F-02	1.834F-02	1.465E-02
33	3.655E-02	4.002E-02	4.414E-02	4.821E-02	5.241E-02	5.723E-02	5.927E-02	5.983E-02	5.846E-02	5.389E-02	4.566F-02	3.865E-02
34	2.543E-02	2.830E-02	3.201E-02	3.725E-02	4.179E-02	4.915E-02	5.511E-02	5.944E-02	6.690E-02	7.235E-02	7.345F-02	6.984E-02
35	4.437E-04	1.058E-03	1.210E-03	1.435E-03	1.644E-03	2.017E-03	2.371E-03	2.710E-03	3.365E-03	4.315E-03	5.857E-03	7.375E-03
36	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
37	3.136E-07	2.437E-07	1.994E-07	1.462E-07	1.044E-07	7.074E-08	5.349E-08	3.596E-08	2.708E-08	2.172F-08	1.556F-08	1.091E-08
38	8.107E-07	7.202E-07	5.130E-07	3.756E-07	2.641E-07	1.815E-07	1.373E-07	9.225E-08	6.948E-08	5.572F-08	4.991F-08	3.800E-08
39	4.932E-07	6.401E-07	6.022E-07	4.393E-07	3.195E-07	2.117E-07	1.600E-07	1.075E-07	8.094E-08	6.491F-08	4.649F-08	3.262E-08
40	3.488E-07	2.521E-07	1.984E-07	1.401E-07	9.179E-08	6.547E-08	4.928E-08	3.301E-08	2.483E-08	1.902F-08	1.425E-08	9.944E-09
41	7.166E-06	3.272E-06	3.074E-06	2.272E-06	1.670E-06	1.107E-06	8.379E-07	5.038E-07	4.246E-07	3.406E-07	2.440E-07	1.712E-07
42	1.686E-05	1.355E-05	1.089E-05	8.025E-06	5.744E-06	3.901E-06	2.951E-06	1.985E-06	1.495E-06	1.199E-06	8.590E-07	6.027E-07
43	3.803E-05	2.982E-05	2.450F-05	1.804E-05	1.291E-05	8.760E-06	6.627E-06	4.456E-06	3.357E-06	2.692E-06	1.929F-06	1.353E-06
44	1.396E-04	2.522E-04	2.059E-04	6.594E-05	4.719E-05	3.260E-05	2.421E-05	1.828E-05	1.226E-05	9.834E-06	7.045F-06	4.942E-06
45	3.225E-04	2.522E-04	2.059E-04	1.522E-04	1.049E-04	7.383E-05	5.585E-05	3.755E-05	2.828E-05	2.269E-05	1.655E-05	1.140E-05
46	9.671E-04	7.560E-04	6.201E-04	4.559E-04	3.253E-04	2.212E-04	1.613E-04	1.125E-04	8.472E-05	6.795F-05	4.868F-05	3.415E-05
47	2.686E-03	2.100E-03	1.724E-03	1.267E-03	9.406E-04	6.649E-04	4.695E-04	3.266E-04	2.354E-04	1.888F-04	1.353F-04	9.400E-05
48	5.353E-03	4.189E-03	3.436F-03	2.527E-03	1.810E-03	1.227E-03	8.285E-04	6.243E-04	4.702E-04	3.771F-04	2.702F-04	1.995E-04
49	9.040E-03	7.090E-03	5.824E-03	4.287E-03	3.069E-03	2.082E-03	1.575E-03	1.059E-03	7.978E-04	6.371F-04	4.584F-04	3.216E-04
50	1.394E-02	1.096E-02	9.011E-03	6.642E-03	4.759E-03	3.229E-03	2.463E-03	1.643E-03	1.238E-03	9.928E-04	7.12E-04	4.900E-04
51	2.914E-02	2.319E-02	1.920E-02	1.424E-02	1.025E-02	6.964E-03	5.273E-03	3.548E-03	2.673E-03	2.144E-03	1.536F-03	1.078E-03
52	5.961E-02	5.045E-02	4.105E-02	3.299E-02	2.471E-02	1.682E-02	1.204E-02	8.329E-03	6.432E-03	5.162E-03	3.700F-03	2.597E-03
53	1.037E-02	1.333E-02	1.625E-02	2.199E-02	3.402E-02	4.267E-02	5.326E-02	6.832E-02	7.612E-02	7.849F-02	7.553F-02	6.476E-02

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	5.068E-08	7.949E-08	1.263E-07	3.120E-07	4.473E-07	5.067E-07	5.059E-07	8.176E-07	1.218E-06	1.523E-06	1.896E-06	2.076E-06
2	3.233E-07	2.127E-07	4.44E-07	1.175E-06	1.308E-06	1.205E-06	1.864E-06	3.342E-06	5.437E-06	6.681E-06	7.759E-06	8.024E-06
3	8.815E-07	2.766E-07	1.771E-06	2.409E-06	1.998E-06	2.451E-06	5.192E-06	9.214E-06	1.348E-05	1.533E-05	1.697E-05	1.718E-05
4	2.130E-07	1.662E-06	4.131E-06	2.711E-06	2.598E-06	4.612E-06	1.074E-05	1.833E-05	2.505E-05	2.784E-05	2.891E-05	2.816E-05
6	9.515E-07	8.712E-07	6.160E-06	7.874E-07	6.641E-06	1.612E-05	3.355E-05	4.861E-05	5.790E-05	5.933E-05	5.571E-05	5.021E-05
8	8.287E-06	1.270E-05	3.853E-07	1.335E-06	2.222E-05	1.344E-05	7.280E-05	9.235E-05	9.801E-05	9.326E-05	7.813E-05	6.374E-05
10	2.519E-05	3.692E-06	1.301E-05	1.394E-05	5.658E-05	9.006E-05	1.274E-04	1.943E-04	1.375E-04	1.209E-04	8.708E-05	5.893E-05
15	6.670E-06	-3.462E-05	-2.64E-06	1.426E-04	2.322E-04	4.815E-04	2.937E-04	2.600E-04	1.802E-04	1.082E-04	-2.972E-06	-8.393E-05
20	1.223E-04	-1.761E-05	1.756E-04	4.095E-04	4.822E-04	8.751E-04	4.037E-04	2.600E-04	1.802E-04	1.082E-04	-2.972E-06	-8.393E-05
30	9.041E-05	7.105E-04	9.546E-04	9.319E-04	7.123E-04	4.689E-04	2.556E-05	4.583E-04	-1.020E-03	-1.407E-03	-3.316E-04	-4.880E-04
45	1.933E-03	1.699E-03	1.074E-03	-1.208E-04	-1.154E-03	-1.178E-03	-2.833E-03	-3.891E-03	-5.019E-03	-2.783E-03	-6.818E-03	-7.522E-03
60	1.438E-03	-6.239E-04	-2.195E-03	-4.342E-03	-8.746E-03	-8.804E-03	-9.276E-03	-9.740E-03	-1.133E-02	-1.244E-02	-1.399E-02	-1.508E-02
75	9.874E-03	-1.252E-02	-1.623E-02	-1.647E-02	-1.204E-02	-1.321E-02	-1.087E-02	-1.058E-02	-1.853E-02	-1.994E-02	-2.200E-02	-2.351E-02
90	-1.686E-02	-1.851E-02	-1.972E-02	-2.149E-02	-2.179E-02	-2.191E-02	-2.086E-02	-2.272E-02	-2.494E-02	-2.661E-02	-2.915E-02	-3.110E-02
120	-1.160E-02	-1.262E-02	-1.334E-02	-1.455E-02	-1.542E-02	-1.613E-02	-2.553E-02	-2.744E-02	-2.985E-02	-3.177E-02	-3.466E-02	-3.739E-02
150	-4.176E-04	-4.507E-04	-4.860E-04	-5.297E-04	-5.824E-04	-5.889E-04	-6.312E-04	-6.800E-04	-7.430E-04	-7.947E-04	-8.814E-04	-9.561E-04
179	-1.112E-02	-1.429E-02	-1.743E-02	-2.356E-02	-3.238E-02	-4.572E-02	-5.702E-02	-7.304E-02	-8.127E-02	-8.390E-02	-8.037E-02	-6.880E-02
5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00	
DEG	1.63E-06	2.140E-06	2.024E-06	1.874E-06	1.626E-06	1.432E-06	1.280E-06	1.057E-06	8.388E-07	6.255E-07	4.991E-07	
1	2.140E-06	2.024E-06	1.874E-06	1.626E-06	1.432E-06	1.280E-06	1.057E-06	8.388E-07	6.255E-07	4.991E-07		
2	8.152E-06	7.483E-06	6.654E-06	5.946E-06	4.966E-06	4.235E-06	3.709E-06	2.985E-06	2.321E-06	1.703E-06	1.349E-06	
3	1.692E-05	1.404E-05	1.187E-05	1.029E-05	8.082E-06	6.418E-06	5.437E-06	4.263E-06	3.188E-06	2.266E-06	1.548E-06	
4	2.688E-05	2.046E-05	1.603E-05	1.294E-05	9.089E-06	6.812E-06	5.370E-06	3.677E-06	2.441E-06	1.548E-06	1.176E-06	
6	5.119E-05	3.566E-05	2.535E-05	1.408E-05	7.445E-05	3.326E-05	2.046E-05	1.044E-05	5.403E-05	2.736E-05	1.525E-05	
8	1.176E-06	1.058E-05	1.058E-05	1.058E-05	1.058E-05	1.058E-05	1.058E-05	1.058E-05	1.058E-05	1.058E-05	1.058E-05	
10	1.459E-04	3.353E-06	3.353E-06	3.353E-06	3.353E-06	3.353E-06	3.353E-06	3.353E-06	3.353E-06	3.353E-06	3.353E-06	
15	1.459E-04	3.353E-06	3.353E-06	3.353E-06	3.353E-06	3.353E-06	3.353E-06	3.353E-06	3.353E-06	3.353E-06	3.353E-06	
20	6.049E-04	3.195E-04	3.945E-04	4.293E-04	4.473E-04	4.371E-04	4.175E-04	3.8730E-04	3.463E-04	2.848E-04	1.992E-04	
30	2.543E-03	-9.902E-03	-1.045E-03	-1.045E-03	-1.010E-03	-1.058E-03	-1.000E-03	-8.843E-04	-7.306E-04	-5.732E-04	-4.654E-04	
45	8.046E-03	-8.774E-03	-3.461E-03	-3.461E-03	-3.458E-03	-3.251E-03	-3.571E-03	-3.270E-03	-2.703E-03	-2.249E-03	-1.408E-03	
60	1.592E-02	-1.711E-02	-1.820E-02	-1.904E-02	-1.876E-02	-1.783E-02	-1.679E-02	-1.481E-02	-1.240E-02	-9.623E-03	-7.926E-03	
75	2.471E-02	-2.649E-02	-2.822E-02	-2.972E-02	-2.925E-02	-2.876E-02	-2.732E-02	-2.439E-02	-2.082E-02	-1.615E-02	-1.318E-02	
90	3.269E-02	-3.516E-02	-3.774E-02	-4.029E-02	-4.155E-02	-4.108E-02	-3.955E-02	-3.598E-02	-3.095E-02	-2.458E-02	-2.020E-02	
120	3.956E-02	-4.321E-02	-4.754E-02	-5.287E-02	-5.664E-02	-6.331E-02	-6.383E-02	-6.227E-02	-5.731E-02	-4.838E-02	-4.103E-02	
150	2.755E-02	-3.061E-02	-3.456E-02	-4.012E-02	-4.447E-02	-5.904E-02	-6.420E-02	-7.155E-02	-7.725E-02	-7.826E-02	-7.436E-02	
179	-1.023E-03	-1.145E-03	-1.547E-03	-1.744E-03	-2.169E-03	-2.548E-03	-2.911E-03	-3.612E-03	-4.630E-03	-6.283E-03	-7.910E-03	
3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02	
DEG	3.559E-07	2.766E-07	2.263E-07	1.659E-07	1.148E-07	8.030E-08	6.072E-08	4.082E-08	3.074E-08	2.445E-08	1.766E-08	1.239E-08
1	3.559E-07	2.766E-07	2.263E-07	1.659E-07	1.148E-07	8.030E-08	6.072E-08	4.082E-08	3.074E-08	2.445E-08	1.766E-08	1.239E-08
2	9.553E-06	7.405E-07	6.049E-07	4.430E-07	3.142E-07	2.142E-07	1.619E-07	1.088E-07	8.196E-08	6.573E-08	4.709E-08	3.303E-08
3	1.235E-06	9.519E-07	7.753E-07	5.662E-07	4.075E-07	2.730E-07	2.064E-07	1.387E-07	1.044E-07	8.375E-08	5.999E-08	4.204E-08
4	7.475E-07	5.613E-07	4.510E-07	3.251E-07	2.299E-07	1.549E-07	1.044E-07	7.846E-08	5.906E-08	4.735E-08	3.391E-08	2.379E-08
6	4.192E-06	-3.323E-06	-2.745E-06	-2.031E-06	-1.459E-06	-9.910E-07	-7.502E-07	-5.047E-07	-3.802E-07	-3.050E-07	-2.185E-07	-1.533E-07
8	1.653E-05	-1.300E-05	-1.069E-05	-7.890E-06	-5.644E-06	-3.832E-06	-2.899E-06	-1.950E-06	-1.469E-06	-1.178E-06	-8.439E-07	-5.920E-07
10	3.846E-05	-3.011E-05	-2.474E-05	-1.822E-05	-1.304E-05	-8.649E-06	-6.694E-06	-4.502E-06	-3.391E-06	-2.720E-06	-1.948E-06	-1.367E-06
15	1.444E-04	-1.130E-04	-9.270E-05	-6.123E-05	-4.043E-05	-3.312E-05	-2.505E-05	-1.684E-05	-1.269E-05	-1.018E-05	-7.290E-06	-5.114E-06
20	3.368E-04	-2.634E-04	-2.161E-04	-1.589E-04	-1.137E-04	-7.710E-05	-5.832E-05	-4.921E-05	-2.594E-05	-2.369E-05	-1.697E-05	-1.191E-05
30	1.018E-03	-7.955E-04	-6.526E-04	-4.798E-04	-3.477E-04	-2.327E-04	-1.760E-04	-1.184E-04	-8.615E-05	-7.151E-05	-5.123E-05	-3.594E-05
45	2.839E-03	-2.219E-03	-1.821E-03	-1.338E-03	-9.577E-04	-6.494E-04	-4.902E-04	-3.303E-04	-2.488E-04	-1.995E-04	-1.429E-04	-1.003E-04
60	5.667E-03	-4.344E-03	-3.639E-03	-2.677E-03	-1.915E-03	-1.299E-03	-9.827E-04	-6.607E-04	-4.977E-04	-3.992E-04	-2.807E-04	-2.006E-04
75	9.584E-03	-7.510E-03	-6.169E-03	-4.541E-03	-3.251E-03	-2.205E-03	-1.668E-03	-1.122E-03	-8.450E-04	-6.777E-04	-4.855E-04	-3.406E-04
90	1.478E-02	-1.161E-02	-9.540E-03	-7.037E-03	-5.043E-03	-3.421E-03	-2.889E-03	-1.741E-03	-1.311E-03	-1.052E-03	-7.535E-04	-5.286E-04
120	3.091E-02	-2.459E-02	-2.035E-02	-1.509E-02	-1.048E-02	-7.391E-03	-5.889E-03	-3.760E-03	-2.833E-03	-2.272E-03	-1.628E-03	-1.142E-03
150	6.332E-02	-5.364E-02	-4.664E-02	-3.499E-02	-2.663E-02	-1.762E-02	-1.337E-02	-9.038E-03	-6.816E-03	-5.470E-03	-3.921E-03	-2.752E-03
179	-1.112E-02	-1.429E-02	-1.743E-02	-2.356E-02	-3.238E-02	-4.572E-02	-5.702E-02	-7.304E-02	-8.127E-02	-8.390E-02	-8.037E-02	-6.880E-02

CA (20) SHEPHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM ENERGY (MEV)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	3.916E-04	5.906E-08	1.549E-07	2.023E-07	4.446E-07	5.328E-07	6.232E-07	7.569E-07	1.185E-06	1.556E-06	1.988E-06	2.213E-06
2	4.158E-04	3.730E-07	3.766E-07	1.121E-06	1.474E-06	1.419E-06	1.737E-06	3.145E-06	5.487E-06	6.729E-06	8.295E-06	8.699E-06
3	4.818E-07	1.252E-06	1.237E-06	2.622E-06	2.224E-06	2.353E-06	4.639E-06	8.814E-06	1.351E-05	1.627E-05	1.859E-05	1.892E-05
4	1.055E-04	5.899E-07	3.877E-06	3.713E-06	2.586E-06	3.804E-06	4.472E-06	4.939E-05	6.223E-05	6.563E-05	6.314E-05	5.794E-05
6	-6.460E-06	7.954E-05	4.861E-06	1.087E-06	3.856E-06	1.243E-05	3.049E-05	4.730E-05	1.084E-04	1.057E-04	9.118E-05	7.694E-05
8	2.174E-04	1.697E-05	4.601E-06	-3.081E-06	1.444E-05	3.641E-05	7.124E-05	4.730E-05	1.084E-04	1.057E-04	9.118E-05	7.694E-05
10	2.164E-04	1.697E-05	1.091E-05	1.816E-06	4.444E-05	1.816E-05	1.304E-04	1.568E-04	1.568E-04	1.568E-04	1.078E-04	7.787E-05
15	3.766E-05	-8.011E-05	-3.713E-05	1.130E-04	2.252E-04	2.662E-04	3.251E-04	3.040E-04	2.267E-04	1.517E-04	3.248E-04	-5.534E-05
20	-1.061E-05	6.324E-04	4.005E-04	4.005E-04	5.157E-04	5.002E-04	4.853E-04	3.426E-04	1.236E-04	-4.787E-05	-2.942E-04	-6.654E-05
30	2.031E-03	2.048E-03	1.486E-03	2.395E-03	7.806E-04	6.599E-04	2.000E-04	3.378E-04	-9.579E-04	-1.367E-03	-1.963E-03	-2.350E-03
45	-2.031E-03	2.048E-03	1.486E-03	2.395E-03	7.806E-04	6.599E-04	2.000E-04	3.378E-04	-9.579E-04	-1.367E-03	-1.963E-03	-2.350E-03
60	-2.031E-03	2.048E-03	1.486E-03	2.395E-03	7.806E-04	6.599E-04	2.000E-04	3.378E-04	-9.579E-04	-1.367E-03	-1.963E-03	-2.350E-03
75	-2.031E-03	2.048E-03	1.486E-03	2.395E-03	7.806E-04	6.599E-04	2.000E-04	3.378E-04	-9.579E-04	-1.367E-03	-1.963E-03	-2.350E-03
90	-2.031E-03	2.048E-03	1.486E-03	2.395E-03	7.806E-04	6.599E-04	2.000E-04	3.378E-04	-9.579E-04	-1.367E-03	-1.963E-03	-2.350E-03
120	-1.823E-02	-2.005E-02	-2.117E-02	-2.330E-02	-2.474E-02	-2.589E-02	-2.772E-02	-2.453E-02	-2.692E-02	-2.142E-02	-2.362E-02	-2.525E-02
150	-1.286E-02	-1.368E-02	-1.453E-02	-1.579E-02	-1.675E-02	-1.752E-02	-1.876E-02	-2.018E-02	-2.237E-02	-2.442E-02	-2.377E-02	-2.347E-02
174	-0.521E-04	-4.946E-04	-5.267E-04	-5.745E-04	-6.101E-04	-6.393E-04	-6.854E-04	-7.387E-04	-8.068E-04	-8.623E-04	-9.550E-04	-1.034E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E-01	1.5E-01	2.0E-01
1	2.339E-06	2.468E-06	2.751E-06	2.240E-06	2.045E-06	1.814E-06	1.602E-06	1.434E-06	1.185E-06	9.422E-07	7.033E-07	5.619E-07
2	8.890E-06	8.848E-06	8.764E-06	7.500E-06	6.741E-06	5.442E-06	4.850E-06	4.262E-06	3.442E-06	2.644E-06	1.974E-06	1.566E-06
3	1.873E-05	1.768E-05	1.602E-05	1.367E-05	1.147E-05	9.440E-06	7.815E-06	6.679E-06	5.196E-06	3.924E-06	2.812E-06	2.202E-06
4	3.031E-05	2.765E-05	2.718E-05	1.900E-05	1.564E-05	1.133E-05	8.745E-06	7.061E-06	5.044E-06	3.508E-06	2.333E-06	1.759E-06
6	5.262E-05	4.290E-05	3.184E-05	1.957E-05	1.170E-05	3.004E-06	-1.378E-06	-3.698E-06	-5.684E-06	-6.099E-06	-5.481E-06	-4.716E-06
8	4.259E-05	2.808E-05	2.008E-05	-1.134E-06	-1.674E-05	-3.034E-05	-1.562E-05	-3.731E-05	-3.652E-05	-3.263E-05	-2.641E-05	-2.184E-05
10	5.321E-05	1.570E-05	-2.224E-05	-5.947E-05	-7.940E-05	-9.769E-05	-1.022E-04	-1.013E-04	-9.402E-05	-8.128E-05	-6.441E-05	-5.280E-05
15	-2.248E-04	-2.204E-04	-3.124E-04	-3.949E-04	-4.366E-04	-4.558E-04	-4.742E-04	-4.820E-04	-4.832E-04	-4.832E-04	-4.832E-04	-4.832E-04
20	-9.931E-04	-7.234E-04	-9.762E-04	-1.074E-03	-1.130E-03	-1.140E-03	-1.097E-03	-1.039E-03	-9.190E-04	-7.691E-04	-5.963E-04	-4.843E-04
30	-2.632E-03	-3.621E-03	-3.763E-03	-3.623E-03	-3.623E-03	-3.623E-03	-3.623E-03	-3.623E-03	-3.623E-03	-3.623E-03	-3.623E-03	-3.623E-03
45	-5.099E-03	-9.266E-03	-9.966E-03	-1.045E-02	-1.054E-02	-1.022E-02	-9.666E-03	-9.061E-03	-7.936E-03	-6.604E-03	-5.102E-03	-3.959E-03
60	-1.698E-02	-1.823E-02	-1.937E-02	-2.023E-02	-2.041E-02	-1.988E-02	-1.888E-02	-1.777E-02	-1.566E-02	-1.310E-02	-1.016E-02	-8.259E-03
75	-2.648E-02	-2.834E-02	-3.013E-02	-3.166E-02	-3.214E-02	-3.177E-02	-3.050E-02	-2.895E-02	-2.582E-02	-2.181E-02	-1.707E-02	-1.393E-02
90	-3.513E-02	-3.771E-02	-4.019E-02	-4.302E-02	-4.420E-02	-4.368E-02	-4.363E-02	-4.196E-02	-3.813E-02	-3.276E-02	-2.599E-02	-2.135E-02
120	-2.666E-02	-4.550E-02	-5.103E-02	-5.662E-02	-6.052E-02	-6.233E-02	-6.744E-02	-6.791E-02	-6.614E-02	-6.077E-02	-5.123E-02	-3.642E-02
150	-2.977E-02	-3.301E-02	-3.713E-02	-4.308E-02	-4.814E-02	-5.648E-02	-6.317E-02	-6.857E-02	-7.631E-02	-8.225E-02	-8.731E-02	-8.840E-02
17	-1.106E-03	-1.235E-03	-1.401E-03	-1.663E-03	-1.846E-03	-2.326E-03	-2.730E-03	-3.118E-03	-3.867E-03	-4.954E-03	-6.721E-03	-8.460E-03
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	4.004E-07	3.113E-07	2.547E-07	1.868E-07	1.374E-07	9.039E-08	6.835E-08	4.595E-08	3.460E-08	2.775E-08	1.988E-08	1.395E-08
2	1.116E-06	8.609E-07	7.034E-07	5.152E-07	3.874E-07	2.931E-07	1.888E-07	1.266E-07	9.535E-08	7.647E-08	5.478E-08	3.843E-08
3	1.544E-06	9.039E-07	7.107E-07	5.102E-07	3.743E-07	2.541E-07	1.919E-07	1.249E-07	9.701E-08	7.779E-08	5.572E-08	3.908E-08
4	1.189E-06	7.574E-06	5.750E-06	4.174E-06	3.055E-06	2.145E-06	1.494E-06	1.034E-06	7.276E-07	5.268E-07	3.843E-07	2.758E-07
6	-3.574E-06	-2.845E-06	-2.750E-06	-1.747E-06	-1.255E-06	-8.336E-07	-6.462E-06	-4.349E-06	-3.276E-06	-2.628E-06	-2.088E-06	-1.575E-06
8	-1.605E-05	-1.262E-05	-1.033E-05	-7.661E-06	-5.450E-06	-3.726E-06	-2.420E-06	-1.896E-06	-1.428E-06	-1.166E-06	-8.208E-07	-5.758E-07
10	-3.451E-05	-3.021E-05	-2.481E-05	-1.829E-05	-1.300E-05	-8.864E-06	-6.721E-06	-4.520E-06	-3.404E-06	-2.730E-06	-1.958E-06	-1.372E-06
15	-1.438E-04	-1.155E-04	-9.561E-05	-7.033E-05	-5.044E-05	-3.414E-05	-2.582E-05	-1.735E-05	-1.308E-05	-1.049E-05	-7.515E-06	-5.272E-06
20	-3.055E-04	-2.741E-04	-2.249E-04	-1.654E-04	-1.183E-04	-8.025E-05	-6.070E-05	-4.081E-05	-3.074E-05	-2.466E-05	-1.766E-05	-1.239E-05
30	-1.084E-03	-8.366E-04	-6.446E-04	-5.037E-04	-3.501E-04	-2.442E-04	-1.847E-04	-1.242E-04	-9.353E-05	-7.502E-05	-5.374E-05	-3.770E-05
45	-2.991E-03	-2.603E-03	-2.141E-03	-1.610E-03	-1.109E-03	-8.442E-04	-5.176E-04	-3.440E-04	-2.621E-04	-2.102E-04	-1.506E-04	-1.057E-04
60	-5.942E-03	-4.601E-03	-3.516E-03	-2.825E-03	-2.022E-03	-1.371E-03	-1.037E-03	-6.973E-04	-5.252E-04	-4.213E-04	-3.018E-04	-2.117E-04
75	-1.012E-02	-7.630E-03	-5.794E-03	-4.796E-03	-3.443E-03	-2.329E-03	-1.762E-03	-1.185E-03	-8.924E-04	-7.157E-04	-5.127E-04	-3.597E-04
90	-1.542E-02	-1.227E-02	-1.009E-02	-7.435E-03	-5.394E-03	-3.615E-03	-2.733E-03	-1.839E-03	-1.385E-03	-1.111E-03	-7.960E-04	-5.585E-04
120	-2.607E-02	-2.599E-02	-2.151E-02	-1.595E-02	-1.079E-02	-7.798E-03	-5.904E-03	-3.973E-03	-2.993E-03	-2.401E-03	-1.720E-03	-1.207E-03
150	-3.677E-02	-5.556E-02	-4.833E-02	-3.598E-02	-2.769E-02	-1.862E-02	-1.413E-02	-9.550E-03	-7.203E-03	-5.780E-03	-4.143E-03	-2.907E-03
179	-1.149E-02	-1.528E-02	-1.464E-02	-2.519E-02	-3.440E-02	-4.884E-02	-6.087E-02	-7.787E-02	-8.651E-02	-8.920E-02	-8.528E-02	-7.288E-02

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	5.954E-04	1.372E-07	1.834E-07	2.769E-07	3.527E-07	5.498E-07	6.546E-07	8.146E-07	1.213E-06	1.575E-06	2.060E-06	2.339E-06
2	3.482E-04	5.051E-07	2.526E-07	1.28E-06	1.447E-06	1.605E-06	1.666E-06	1.702E-06	5.213E-06	7.035E-06	9.779E-06	9.342E-06
3	7.635E-04	3.253E-07	8.423E-07	2.839E-06	2.749E-06	2.493E-06	1.963E-06	8.107E-06	1.368E-05	1.695E-05	1.987E-05	2.063E-05
4	2.007E-04	1.897E-06	3.145E-06	4.585E-06	2.707E-06	3.198E-06	8.104E-06	1.731E-05	2.669E-05	3.173E-05	3.488E-05	3.480E-05
6	1.951E-06	5.745E-06	1.087E-05	2.718E-06	1.874E-06	8.875E-06	2.762E-05	4.908E-05	6.589E-05	7.118E-05	7.060E-05	6.597E-05
8	4.074E-04	1.954E-05	1.194E-05	5.160E-06	7.564E-06	2.910E-05	4.782E-05	1.006E-04	1.181E-04	1.183E-04	1.060E-04	9.086E-05
10	1.242E-05	2.552E-05	4.079E-05	8.506E-06	3.074E-05	7.232E-05	1.301E-04	4.672E-04	1.752E-04	1.630E-04	1.293E-04	9.841E-05
15	6.588E-05	4.965E-05	5.795E-05	8.053E-05	2.049E-04	2.887E-04	1.526E-04	3.677E-04	2.759E-04	1.988E-04	1.228E-04	2.243E-05
20	2.473E-04	1.329E-04	4.150E-04	3.740E-04	5.361E-04	5.909E-04	5.643E-04	4.303E-04	2.028E-04	1.881E-05	2.487E-05	4.354E-04
30	2.040E-03	2.368E-03	1.904E-03	6.432E-04	1.484E-03	8.540E-04	7.836E-04	1.956E-03	8.756E-04	1.347E-03	1.981E-03	2.404E-03
45	5.785E-03	5.785E-03	1.295E-03	3.978E-03	5.647E-03	7.112E-03	2.652E-03	3.974E-03	5.372E-03	6.330E-03	7.539E-03	8.364E-03
75	2.270E-03	5.849E-03	8.265E-03	1.137E-02	1.334E-02	1.689E-02	1.897E-02	1.081E-02	1.275E-02	1.405E-02	1.587E-02	1.712E-02
120	1.029E-02	1.372E-02	1.592E-02	1.876E-02	2.206E-02	2.416E-02	2.416E-02	1.898E-02	2.129E-02	2.293E-02	2.527E-02	2.697E-02
190	1.963E-02	2.162E-02	2.306E-02	2.517E-02	2.759E-02	2.966E-02	2.966E-02	2.638E-02	2.896E-02	3.088E-02	3.374E-02	3.590E-02
150	1.359E-02	1.478E-02	1.569E-02	1.707E-02	1.811E-02	1.895E-02	2.029E-02	2.183E-02	2.378E-02	2.536E-02	2.794E-02	3.012E-02
179	4.875E-04	5.336E-04	5.634E-04	6.204E-04	6.599E-04	6.911E-04	7.414E-04	7.991E-04	8.726E-04	9.322E-04	1.031E-03	1.116E-03
5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E-01	1.5E-01	2.0E-01	2.0E-01
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	2.487E-04	2.603E-06	2.567E-06	2.462E-06	2.300E-06	2.010E-06	1.779E-06	1.594E-06	1.320E-06	1.051E-06	7.849E-07	6.269E-07
2	7.623E-04	9.701E-06	9.271E-06	8.382E-06	7.594E-06	6.378E-06	5.502E-06	4.847E-06	3.928E-06	3.071E-06	2.264E-06	1.797E-06
3	2.058E-04	1.962E-05	1.811E-05	1.565E-05	1.370E-05	1.095E-05	9.140E-06	7.958E-06	6.163E-06	4.572E-06	3.292E-06	2.585E-06
4	3.086E-05	3.096E-05	2.784E-05	2.218E-05	1.857E-05	1.375E-05	1.083E-05	8.900E-06	6.535E-06	4.675E-06	3.133E-06	2.441E-06
6	6.058E-05	5.062E-05	3.866E-05	2.556E-05	1.701E-05	7.163E-05	2.092E-06	1.588E-06	1.105E-06	6.431E-06	4.133E-06	3.701E-06
8	7.737E-05	5.483E-05	3.059E-05	2.655E-05	9.742E-05	1.157E-05	3.397E-05	3.406E-05	2.864E-05	2.304E-05	1.919E-05	2.090E-05
10	7.237E-05	3.194E-05	9.203E-06	4.991E-05	7.425E-05	6.306E-05	8.97E-05	8.949E-05	9.264E-05	8.052E-05	6.403E-05	5.257E-05
15	5.555E-05	2.013E-04	3.026E-04	3.226E-04	4.661E-04	4.623E-04	4.534E-04	4.369E-04	4.921E-04	4.313E-04	2.586E-04	2.106E-04
20	5.746E-04	7.699E-04	9.484E-04	1.099E-03	1.162E-03	1.176E-03	1.134E-03	1.075E-03	9.520E-04	7.972E-04	6.133E-04	5.023E-04
30	2.711E-03	3.132E-03	3.502E-03	3.784E-03	3.793E-03	3.601E-03	3.342E-03	3.042E-03	2.697E-03	2.468E-03	1.906E-03	1.546E-03
45	8.968E-02	9.797E-02	1.052E-02	1.103E-02	1.111E-02	1.077E-02	1.017E-02	9.567E-03	8.352E-03	6.943E-03	5.363E-03	4.349E-03
60	1.805E-02	1.937E-02	2.056E-02	2.144E-02	2.160E-02	2.101E-02	1.933E-02	1.826E-02	1.651E-02	1.380E-02	1.070E-02	8.696E-03
75	2.829E-02	3.023E-02	3.208E-02	3.364E-02	3.414E-02	3.364E-02	3.226E-02	3.060E-02	2.726E-02	2.301E-02	1.800E-02	1.468E-02
90	3.768E-02	4.033E-02	4.211E-02	4.380E-02	4.470E-02	4.393E-02	4.221E-02	4.041E-02	3.700E-02	3.458E-02	2.742E-02	2.252E-02
120	4.586E-02	4.989E-02	5.466E-02	6.048E-02	6.459E-02	6.951E-02	7.164E-02	7.206E-02	7.006E-02	6.428E-02	5.411E-02	4.582E-02
150	3.206E-02	3.548E-02	3.990E-02	4.614E-02	5.144E-02	6.029E-02	6.736E-02	7.305E-02	8.117E-02	8.734E-02	8.812E-02	8.349E-02
179	1.192E-03	1.329E-03	1.511E-03	1.783E-03	2.070E-03	2.488E-03	2.917E-03	3.331E-03	4.128E-03	5.281E-03	7.170E-03	9.024E-03
3.0E-00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02	1.0E+02
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	4.473E-07	3.478E-07	2.845E-07	2.087E-07	1.491E-07	1.010E-07	7.637E-08	5.134E-08	3.867E-08	3.101E-08	2.231E-08	1.558E-08
2	1.275E-04	9.892E-07	8.094E-07	5.922E-07	4.228E-07	2.864E-07	1.655E-07	1.455E-07	1.096E-07	8.791E-08	6.237E-08	4.418E-08
3	1.816E-04	1.403E-06	1.194E-06	8.368E-07	5.946E-07	4.040E-07	2.052E-07	1.545E-07	1.545E-07	1.239E-07	8.878E-08	5.298E-08
4	1.674E-04	1.280E-06	1.039E-06	7.555E-07	5.372E-07	3.630E-07	2.743E-07	1.842E-07	1.387E-07	1.112E-07	7.968E-08	5.590E-08
6	2.859E-04	2.293E-06	1.905E-06	1.417E-06	1.020E-06	6.944E-07	5.260E-07	3.840E-07	2.667E-07	2.140E-07	1.533E-07	1.075E-07
8	1.540E-05	3.013E-05	2.477E-05	1.824E-05	1.307E-05	8.865E-06	6.707E-06	4.510E-06	3.397E-06	2.755E-06	1.952E-06	1.369E-06
10	3.839E-05	2.013E-05	2.477E-05	1.824E-05	1.307E-05	8.865E-06	6.707E-06	4.510E-06	3.397E-06	2.755E-06	1.952E-06	1.369E-06
15	1.196E-04	1.196E-04	9.810E-05	7.224E-05	5.176E-05	3.508E-05	2.652E-05	1.783E-05	1.343E-05	1.077E-05	7.719E-06	5.415E-06
20	3.636E-04	2.844E-04	2.133E-04	1.616E-04	1.273E-04	8.329E-05	6.236E-05	4.235E-05	3.190E-05	2.558E-05	1.833E-05	1.286E-05
30	1.117E-03	8.731E-04	7.162E-04	5.686E-04	4.376E-04	3.254E-04	2.554E-04	1.932E-04	1.785E-04	1.387E-04	1.033E-04	7.848E-05
45	3.144E-03	2.457E-03	2.010E-03	1.482E-03	1.040E-03	7.190E-04	5.432E-04	3.657E-04	2.574E-04	2.209E-04	1.583E-04	1.110E-04
60	2.988E-03	2.927E-03	4.093E-03	2.974E-03	2.128E-03	1.443E-03	1.092E-03	7.340E-04	5.528E-04	4.434E-04	3.176E-04	2.228E-04
75	1.646E-02	6.358E-03	6.869E-03	5.052E-03	3.617E-03	2.453E-03	1.856E-03	1.248E-03	9.400E-04	7.539E-04	5.401E-04	3.789E-04
90	1.646E-02	1.243E-02	1.063E-02	7.835E-03	5.617E-03	3.809E-03	2.842E-03	1.938E-03	1.460E-03	1.171E-03	8.388E-04	5.885E-04
120	3.447E-02	2.741E-02	2.266E-02	1.682E-02	1.203E-02	8.219E-03	6.223E-03	4.187E-03	3.155E-03	2.530E-03	1.813E-03	1.272E-03
150	7.088E-02	5.970E-02	5.100E-02	3.900E-02	2.554E-02	1.962E-02	1.467E-02	1.067E-02	7.592E-03	6.093E-03	4.367E-03	3.064E-03
179	1.268E-02	1.630E-02	1.987E-02	2.686E-02	3.680E-02	5.204E-02	7.442E-02	8.280E-02	9.185E-02	9.455E-02	9.026E-02	7.701E-02

TI (22) SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM ENERGY (MEV)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	2.191E-04	6.226E-08	1.454E-07	1.857E-07	4.104E-07	5.541E-07	6.894E-07	8.317E-07	1.137E-06	1.553E-06	2.104E-06	2.451E-06
2	9.708E-09	4.859E-07	2.962E-07	9.686E-07	1.359E-06	1.557E-06	1.661E-06	2.999E-06	5.086E-06	7.010E-06	9.203E-06	1.010E-05
3	3.881E-07	7.426E-07	3.471E-07	2.950E-06	3.155E-06	2.791E-06	3.513E-06	7.662E-06	1.363E-05	1.745E-05	2.230E-05	2.230E-05
4	2.069E-06	4.198E-07	2.052E-06	5.468E-06	3.703E-06	3.176E-06	6.845E-06	1.591E-05	2.692E-05	3.289E-05	3.744E-05	3.806E-05
6	4.228E-07	2.480E-06	1.150E-06	5.253E-06	1.044E-06	5.662E-06	2.392E-05	4.779E-05	6.874E-05	7.654E-05	7.813E-05	7.421E-05
8	-7.833E-06	1.834E-05	1.762E-05	-4.479E-06	9.479E-07	2.059E-05	6.227E-05	1.020E-04	1.269E-04	1.305E-04	1.205E-04	1.056E-04
10	1.970E-07	3.399E-05	6.120E-06	-1.581E-05	1.037E-05	5.920E-05	1.263E-04	1.755E-04	1.932E-04	1.846E-04	1.523E-04	1.205E-04
15	8.467E-05	-2.814E-05	-7.170E-05	4.205E-05	1.841E-04	2.825E-04	3.746E-04	3.809E-04	3.271E-04	2.495E-04	1.164E-04	1.484E-05
20	-3.704E-06	-1.609E-04	-3.343E-04	3.301E-04	5.409E-04	6.309E-04	6.403E-04	5.218E-04	2.894E-04	9.391E-05	-1.949E-04	-3.976E-04
30	-3.977E-04	3.535E-04	9.120E-04	1.327E-03	1.263E-03	1.059E-03	5.846E-04	-3.198E-05	-7.725E-04	-1.290E-03	-1.984E-03	-2.445E-03
45	1.950E-03	2.644E-03	2.321E-03	1.085E-03	-7.225E-05	-1.640E-03	-2.489E-03	-3.957E-03	-5.506E-03	-6.530E-03	-7.880E-03	-8.771E-03
60	3.441E-03	1.285E-03	-7.145E-04	-3.670E-03	-5.689E-03	-7.173E-03	-9.260E-03	-1.129E-02	-1.343E-02	-1.487E-02	-1.682E-02	-1.815E-02
75	-1.463E-03	-5.491E-03	-8.205E-03	-1.170E-02	-1.394E-02	-1.557E-02	-1.787E-02	-2.017E-02	-2.269E-02	-2.446E-02	-2.696E-02	-2.875E-02
90	-1.032E-02	-1.422E-02	-1.670E-02	-1.988E-02	-2.194E-02	-2.354E-02	-2.585E-02	-2.827E-02	-3.105E-02	-3.309E-02	-3.613E-02	-3.840E-02
120	-2.105E-02	-2.323E-02	-2.480E-02	-2.702E-02	-2.878E-02	-3.014E-02	-3.228E-02	-3.468E-02	-3.766E-02	-3.998E-02	-4.366E-02	-4.633E-02
150	-1.462E-02	-1.591E-02	-1.689E-02	-1.838E-02	-1.959E-02	-2.042E-02	-2.187E-02	-2.353E-02	-2.563E-02	-2.731E-02	-3.007E-02	-3.238E-02
179	-5.237E-04	-5.735E-04	-6.111E-04	-6.675E-04	-7.049E-04	-7.442E-04	-7.988E-04	-8.613E-04	-9.405E-04	-1.004E-03	-1.110E-03	-1.199E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	2.535E-04	2.793E-06	2.782E-06	2.654E-06	2.521E-06	2.213E-06	1.962E-06	1.761E-06	1.461E-06	1.164E-06	8.703E-07	6.954E-07
2	1.035E-05	1.053E-05	1.020E-05	9.297E-06	8.462E-06	7.146E-06	6.188E-06	5.464E-06	4.441E-06	3.491E-06	2.570E-06	2.042E-06
3	2.253E-05	2.196E-05	2.013E-05	1.755E-05	1.555E-05	1.256E-05	1.055E-05	9.114E-06	7.198E-06	5.507E-06	3.989E-06	3.140E-06
4	3.745E-05	3.495E-05	3.090E-05	2.556E-05	2.146E-05	1.635E-05	1.308E-05	1.089E-05	8.151E-06	5.942E-06	4.129E-06	3.185E-06
6	6.898E-05	5.880E-05	4.639E-05	3.207E-05	2.471E-05	1.175E-05	5.940E-06	2.608E-06	-6.579E-07	-2.300E-06	-7.729E-06	-2.550E-06
8	9.175E-05	6.806E-05	4.210E-05	1.461E-05	-1.245E-06	-1.932E-05	-2.686E-05	-3.004E-05	-3.110E-05	-2.868E-05	-2.367E-05	-1.972E-05
10	4.305E-05	4.987E-05	5.462E-05	-3.892E-05	-6.343E-06	-8.729E-05	-9.479E-05	-9.573E-05	-9.054E-05	-7.919E-05	-6.323E-05	-5.200E-05
15	-6.406E-05	-1.786E-04	-2.881E-04	-3.872E-04	-4.355E-04	-4.667E-04	-4.618E-04	-4.441E-04	-3.991E-04	-3.383E-04	-2.643E-04	-2.154E-04
20	-5.496E-04	-7.613E-04	-9.553E-04	-1.120E-03	-1.189E-03	-1.210E-03	-1.169E-03	-1.109E-03	-9.871E-04	-8.239E-04	-6.394E-04	-5.194E-04
30	-2.773E-03	-3.235E-03	-3.434E-03	-3.939E-03	-4.031E-03	-3.956E-03	-3.757E-03	-3.529E-03	-3.096E-03	-2.576E-03	-1.989E-03	-1.613E-03
45	-4.420E-03	-1.030E-02	-1.100E-02	-1.160E-02	-1.149E-02	-1.131E-02	-1.059E-02	-1.001E-02	-8.764E-03	-7.285E-03	-5.624E-03	-4.560E-03
60	-1.914E-02	-2.033E-02	-2.170E-02	-2.266E-02	-2.241E-02	-2.215E-02	-2.100E-02	-1.974E-02	-1.737E-02	-1.451E-02	-1.125E-02	-9.136E-03
75	-3.013E-02	-3.215E-02	-3.407E-02	-3.566E-02	-3.614E-02	-3.554E-02	-3.405E-02	-3.226E-02	-2.871E-02	-2.422E-02	-1.893E-02	-1.544E-02
90	-4.022E-02	-4.301E-02	-4.580E-02	-4.864E-02	-4.992E-02	-5.014E-02	-4.883E-02	-4.688E-02	-4.249E-02	-3.643E-02	-2.886E-02	-2.369E-02
120	-4.916E-02	-5.339E-02	-5.817E-02	-6.444E-02	-6.870E-02	-7.378E-02	-7.592E-02	-7.628E-02	-7.404E-02	-6.782E-02	-5.702E-02	-4.825E-02
150	-3.443E-02	-3.804E-02	-4.270E-02	-4.928E-02	-5.490E-02	-6.421E-02	-7.165E-02	-7.763E-02	-8.613E-02	-9.252E-02	-9.316E-02	-8.815E-02
179	-1.246E-03	-1.425E-03	-1.613E-03	-1.906E-03	-2.146E-03	-2.654E-03	-3.110E-03	-3.549E-03	-4.397E-03	-5.629E-03	-7.632E-03	-9.604E-03
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	4.963E-07	3.459E-07	3.150E-07	2.316E-07	1.655E-07	1.121E-07	8.477E-08	5.699E-08	4.292E-08	3.442E-08	2.466E-08	1.730E-08
2	1.456E-06	1.125E-06	9.191E-07	6.739E-07	4.811E-07	3.259E-07	2.464E-07	1.656E-07	1.247E-07	1.000E-07	7.167E-08	5.028E-08
3	2.212E-06	1.711E-06	1.346E-06	1.021E-06	7.288E-07	4.932E-07	3.728E-07	2.506E-07	1.887E-07	1.513E-07	1.084E-07	7.605E-08
4	2.203E-06	1.690E-06	1.174E-06	1.001E-06	7.124E-07	4.818E-07	3.641E-07	2.446E-07	1.842E-07	1.477E-07	1.058E-07	7.422E-08
6	-2.048E-06	-1.665E-06	-1.193E-06	-1.042E-06	-7.520E-07	-5.133E-07	-3.891E-07	-2.620E-07	-1.974E-07	-1.584E-07	-1.135E-07	-7.962E-08
8	-1.458E-05	-1.150E-05	-9.675E-06	-6.945E-06	-5.014E-06	-3.405E-06	-2.577E-06	-1.733E-06	-1.306E-06	-1.047E-06	-7.503E-07	-5.264E-07
10	-3.802E-05	-2.906E-05	-2.455E-05	-1.809E-05	-1.294E-05	-8.791E-06	-6.652E-06	-4.773E-06	-3.369E-06	-2.702E-06	-1.936E-06	-1.358E-06
15	-1.563E-04	-1.224E-04	-1.005E-04	-7.393E-05	-5.291E-05	-3.589E-05	-2.715E-05	-1.825E-05	-1.375E-05	-1.103E-05	-7.900E-06	-5.542E-06
20	-3.761E-04	-2.941E-04	-2.414E-04	-1.775E-04	-1.270E-04	-8.614E-05	-6.516E-05	-4.381E-05	-3.300E-05	-2.647E-05	-1.896E-05	-1.330E-05
30	-1.145E-03	-9.111E-04	-7.474E-04	-5.495E-04	-3.931E-04	-2.666E-04	-2.016E-04	-1.356E-04	-1.021E-04	-8.189E-05	-5.867E-05	-4.116E-05
45	-3.296E-03	-2.576E-03	-2.113E-03	-1.554E-03	-1.112E-03	-7.537E-04	-5.701E-04	-3.833E-04	-2.887E-04	-2.316E-04	-1.659E-04	-1.164E-04
60	-6.614E-03	-5.174E-03	-4.240E-03	-3.123E-03	-2.275E-03	-1.515E-03	-1.146E-03	-7.709E-04	-5.895E-04	-4.656E-04	-3.336E-04	-2.340E-04
75	-1.121E-02	-8.785E-03	-7.215E-03	-5.310E-03	-3.801E-03	-2.578E-03	-1.950E-03	-1.312E-03	-9.879E-04	-7.923E-04	-5.676E-04	-3.982E-04
90	-1.731E-02	-1.360E-02	-1.110E-02	-8.238E-03	-5.970E-03	-4.004E-03	-3.030E-03	-2.037E-03	-1.535E-03	-1.213E-03	-8.819E-04	-6.187E-04
120	-3.627E-02	-2.883E-02	-2.380E-02	-1.769E-02	-1.271E-02	-8.643E-03	-6.544E-03	-4.403E-03	-3.317E-03	-2.661E-03	-1.906E-03	-1.337E-03
150	-7.469E-02	-6.288E-02	-5.360E-02	-4.103E-02	-3.004E-02	-2.064E-02	-1.509E-02	-9.983E-03	-6.407E-03	-4.592E-03	-3.222E-03	-2.22E-03
179	-1.353E-02	-1.734E-02	-2.114E-02	-2.858E-02	-3.724E-02	-5.532E-02	-8.880E-02	-8.783E-02	-9.730E-02	-1.001E-01	-9.531E-02	-1.18E-02

V	(P3)	SHERMAN FUNCTION: DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)	
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
DEG													
1	-1.218E-04	1.736E-08	8.030E-08	1.827E-07	2.694E-07	5.448E-07	5.606E-07	1.906E-07	1.197E-06	1.539E-06	2.179E-06	2.550E-06	
2	4.404E-07	4.027E-07	4.888E-07	6.112E-07	1.480E-06	1.874E-06	1.905E-06	2.553E-06	4.891E-06	7.121E-06	9.561E-06	1.068E-05	
3	-3.505E-04	1.231E-06	1.501E-06	2.731E-06	3.707E-06	3.225E-06	1.305E-06	1.003E-06	1.345E-05	1.755E-05	2.197E-05	2.403E-05	
4	1.447E-06	1.169E-07	7.741E-07	5.925E-06	4.760E-06	3.422E-06	5.713E-06	1.442E-05	2.672E-05	3.393E-05	3.997E-05	4.131E-05	
6	3.611E-04	-8.324E-07	1.064E-05	8.526E-06	1.448E-06	3.089E-06	1.950E-05	4.553E-05	7.075E-05	8.130E-05	8.556E-05	8.260E-05	
8	-7.637E-06	1.373E-05	2.245E-05	-1.280E-06	-3.983E-06	1.219E-05	5.525E-05	1.015E-04	1.344E-04	1.422E-04	1.352E-04	1.213E-04	
10	-1.157E-05	3.763E-05	1.902E-05	-1.906E-05	2.494E-06	4.423E-05	1.191E-04	1.806E-04	2.100E-04	2.062E-04	1.763E-04	1.439E-04	
15	8.843E-05	3.449E-06	-7.760E-05	1.913E-06	1.317E-04	2.674E-04	3.898E-04	4.297E-04	3.797E-04	3.033E-04	1.646E-04	5.646E-05	
20	6.865E-05	-1.826E-04	-1.053E-04	2.700E-04	5.287E-04	6.581E-04	7.126E-04	6.156E-04	3.830E-04	1.773E-04	-1.327E-04	-3.519E-04	
30	-5.106E-04	1.658E-04	8.780E-04	1.410E-03	1.435E-03	1.267E-03	8.006E-04	1.527E-04	-6.479E-04	-1.212E-03	-1.971E-03	-2.473E-03	
45	1.757E-03	2.859E-03	2.723E-03	1.559E-03	3.440E-04	-6.903E-04	-2.276E-03	-3.897E-03	-5.608E-03	-6.733E-03	-8.205E-03	-9.168E-03	
60	4.043E-01	2.048E-03	-5.140E-03	-3.273E-03	-5.312E-03	-7.164E-03	-9.490E-03	-1.175E-02	-1.410E-02	-1.567E-02	-1.777E-02	-1.918E-02	
75	-5.972E-04	-5.012E-03	-8.039E-03	-1.195E-02	-1.444E-02	-1.628E-02	-1.884E-02	-2.137E-02	-2.411E-02	-2.601E-02	-2.868E-02	-3.057E-02	
90	-1.025E-02	-1.464E-02	-1.742E-02	-2.097E-02	-2.336E-02	-2.503E-02	-2.756E-02	-3.018E-02	-3.318E-02	-3.536E-02	-3.857E-02	-4.095E-02	
120	-2.250E-02	-2.488E-02	-2.650E-02	-2.906E-02	-3.084E-02	-3.235E-02	-3.465E-02	-3.724E-02	-4.042E-02	-4.290E-02	-4.679E-02	-4.991E-02	
150	-1.569E-02	-1.707E-02	-1.813E-02	-1.972E-02	-2.097E-02	-2.192E-02	-2.349E-02	-2.528E-02	-2.754E-02	-2.933E-02	-3.225E-02	-3.470E-02	
179	-5.607E-04	-6.143E-04	-6.548E-04	-7.156E-04	-7.614E-04	-7.986E-04	-8.577E-04	-9.252E-04	-1.010E-03	-1.079E-03	-1.191E-03	-1.286E-03	
		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
DEG													
1	2.772E-06	2.978E-06	3.031E-06	2.871E-06	2.747E-06	2.421E-06	2.152E-06	1.934E-06	1.607E-06	1.282E-06	9.593E-07	7.668E-07	
2	1.105E-05	1.137E-05	1.114E-05	1.024E-05	9.344E-06	7.951E-06	6.907E-06	6.112E-06	4.981E-06	3.912E-06	2.894E-06	2.300E-06	
3	2.432E-05	2.388E-05	2.229E-05	1.962E-05	1.740E-05	1.417E-05	1.205E-05	1.045E-05	8.299E-06	6.379E-06	4.638E-06	3.658E-06	
4	4.106E-05	3.881E-05	3.491E-05	2.912E-05	2.444E-05	1.912E-05	1.549E-05	1.302E-05	9.890E-06	7.309E-06	5.141E-06	3.990E-06	
6	7.767E-05	6.740E-05	5.440E-05	3.907E-05	2.689E-05	1.676E-05	1.017E-05	6.276E-06	2.256E-06	-5.740E-08	-1.097E-06	-1.261E-06	
8	1.068E-04	8.225E-05	5.461E-05	2.490E-05	6.758E-06	-1.266E-05	-2.147E-05	-2.551E-05	-2.764E-05	-2.611E-05	-2.185E-05	-1.831E-05	
10	1.153E-04	6.964E-05	2.777E-05	-2.644E-05	-5.394E-05	-8.037E-05	-8.959E-05	-9.162E-05	-8.770E-05	-7.726E-05	-6.199E-05	-5.107E-05	
15	-2.828E-05	-1.519E-04	-2.700E-04	-3.788E-04	-4.327E-04	-4.688E-04	-4.662E-04	-4.496E-04	-4.058E-04	-3.442E-04	-2.693E-04	-2.195E-04	
20	-5.160E-04	-7.462E-04	-9.560E-04	-1.136E-03	-1.213E-03	-1.240E-03	-1.201E-03	-1.140E-03	-1.012E-03	-8.490E-04	-6.592E-04	-5.357E-04	
30	-2.836E-03	-3.329E-03	-3.759E-03	-4.087E-03	-4.188E-03	-4.115E-03	-3.909E-03	-3.673E-03	-3.223E-03	-2.681E-03	-2.071E-03	-1.679E-03	
45	-9.864E-03	-1.061E-02	-1.161E-02	-1.217E-02	-1.186E-02	-1.186E-02	-1.120E-02	-1.049E-02	-9.176E-03	-7.624E-03	-5.885E-03	-4.771E-03	
60	-2.023E-02	-2.169E-02	-2.298E-02	-2.389E-02	-2.407E-02	-2.330E-02	-2.207E-02	-2.073E-02	-1.823E-02	-1.522E-02	-1.179E-02	-9.576E-03	
75	-3.202E-02	-3.412E-02	-3.610E-02	-3.771E-02	-3.817E-02	-3.747E-02	-3.585E-02	-3.394E-02	-3.018E-02	-2.543E-02	-1.986E-02	-1.619E-02	
90	-4.286E-02	-4.576E-02	-4.873E-02	-5.154E-02	-5.241E-02	-5.294E-02	-5.149E-02	-4.938E-02	-4.470E-02	-3.829E-02	-3.031E-02	-2.487E-02	
120	-5.256E-02	-5.699E-02	-6.210E-02	-6.850E-02	-7.292E-02	-7.813E-02	-8.029E-02	-8.057E-02	-7.808E-02	-7.141E-02	-5.996E-02	-5.070E-02	
150	-3.686E-02	-4.068E-02	-4.559E-02	-5.252E-02	-5.647E-02	-6.823E-02	-7.605E-02	-8.232E-02	-9.120E-02	-9.780E-02	-9.828E-02	-9.286E-02	
179	-1.372E-03	-1.525E-03	-1.730E-03	-2.033E-03	-2.311E-03	-2.826E-03	-3.309E-03	-3.774E-03	-4.673E-03	-5.980E-03	-8.106E-03	-1.020E-02	
		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
DFG													
1	5.474E-07	4.257E-07	3.484E-07	2.555E-07	1.825E-07	1.237E-07	9.353E-08	6.287E-08	4.735E-08	3.798E-08	2.721E-08	1.909E-08	
2	1.635E-06	1.269E-06	1.031E-06	7.601E-07	5.428E-07	3.677E-07	2.780E-07	1.869E-07	1.407E-07	1.129E-07	8.085E-08	5.672E-08	
3	2.581E-06	1.998E-06	1.631E-06	1.193E-06	8.317E-07	5.764E-07	4.358E-07	2.929E-07	2.206E-07	1.769E-07	1.267E-07	8.889E-08	
4	2.774E-06	2.134E-06	1.737E-06	1.267E-06	9.075E-07	6.105E-07	4.614E-07	3.100E-07	2.334E-07	1.872E-07	1.341E-07	9.407E-08	
6	-1.138E-06	-9.608E-07	-8.175E-07	-6.211E-07	-4.325E-07	-3.100E-07	-2.353E-07	-1.586E-07	-1.196E-07	-9.597E-08	-6.877E-08	-4.826E-08	
8	-1.360E-05	-1.074E-05	-8.857E-06	-6.544E-06	-4.694E-06	-3.188E-06	-2.413E-06	-1.623E-06	-1.223E-06	-9.807E-07	-7.026E-07	-4.929E-07	
10	-3.740E-05	-2.939E-05	-2.417E-05	-1.782E-05	-1.274E-05	-8.662E-06	-6.554E-06	-4.407E-06	-3.320E-06	-2.663E-06	-1.908E-06	-1.338E-06	
15	-1.594E-04	-1.248E-04	-1.025E-04	-7.541E-05	-5.398E-05	-3.661E-05	-2.769E-05	-1.862E-05	-1.403E-05	-1.125E-05	-8.059E-06	-5.654E-06	
20	-3.479E-04	-3.034E-04	-2.490E-04	-1.831E-04	-1.310E-04	-8.887E-05	-6.722E-05	-4.520E-05	-3.404E-05	-2.731E-05	-1.956E-05	-1.372E-05	
30	-1.213E-03	-9.485E-04	-7.781E-04	-5.720E-04	-4.092E-04	-2.775E-04	-2.099E-04	-1.411E-04	-1.063E-04	-8.525E-05	-6.107E-05	-4.285E-05	
45	-3.448E-03	-2.695E-03	-2.211E-03	-1.625E-03	-1.167E-03	-7.884E-04	-5.963E-04	-4.010E-04	-3.020E-04	-2.422E-04	-1.735E-04	-1.217E-04	
60	-6.932E-03	-5.422E-03	-4.450E-03	-3.272E-03	-2.347E-03	-1.588E-03	-1.201E-03	-8.076E-04	-6.083E-04	-4.879E-04	-3.495E-04	-2.452E-04	
75	-1.176E-02	-9.214E-03	-7.566E-03	-5.569E-03	-3.984E-03	-2.704E-03	-2.045E-03	-1.375E-03	-1.036E-03	-8.309E-04	-5.952E-04	-4.176E-04	
90	-1.817E-02	-1.427E-02	-1.173E-02	-8.643E-03	-6.191E-03	-4.201E-03	-3.178E-03	-2.137E-03	-1.610E-03	-1.291E-03	-9.251E-04	-6.490E-04	
120	-3.809E-02	-3.027E-02	-2.504E-02	-1.856E-02	-1.334E-02	-9.069E-03	-6.866E-03	-4.620E-03	-3.481E-03	-2.792E-03	-2.000E-03	-1.403E-03	
150	-7.856E-02	-6.608E-02	-5.439E-02	-4.308E-02	-3.153E-02	-2.166E-02	-1.646E-02	-1.111E-02	-8.377E-03	-6.723E-03	-4.818E-03	-3.381E-03	
179	-1.433E-02	-1.841E-02	-2.244E-02	-3.033E-02	-4.164E-02	-5.868E-02	-7.300E-02	-9.297E-02	-1.028E-01	-1.056E-01	-1.004E-01	-8.539E-02	

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-3.105E-04	5.838E-08	1.844E-07	3.076E-07	3.695E-07	5.243E-07	7.490E-07	8.833E-07	1.192E-06	1.577E-06	2.217E-06	2.627E-06
2	3.754E-07	3.953E-07	6.405E-07	1.130E-07	1.362E-06	1.990E-06	2.119E-06	2.422E-06	4.659E-06	6.796E-06	9.572E-06	1.121E-05
3	1.280E-07	1.411E-06	1.608E-07	2.292E-06	3.874E-06	3.737E-06	1.472E-06	6.139E-06	1.275E-05	1.775E-05	2.336E-05	2.539E-05
4	3.979E-07	1.153E-06	-9.917E-08	5.902E-06	5.907E-06	4.166E-06	4.869E-06	1.291E-05	2.588E-05	3.746E-05	4.237E-05	4.440E-05
6	6.270E-06	3.192E-06	8.240E-06	1.200E-05	6.307E-06	1.639E-06	1.514E-05	4.230E-05	1.171E-05	8.539E-05	9.277E-05	9.092E-05
8	3.111E-06	6.497E-06	2.571E-05	4.331E-06	6.558E-06	4.489E-06	4.652E-05	8.84E-05	1.405E-04	1.531E-04	1.499E-04	1.372E-04
10	-1.860E-05	3.514E-05	3.184E-05	-1.773E-05	-9.614E-06	2.839E-05	1.086E-04	1.829E-04	2.253E-04	2.274E-04	2.010E-04	1.687E-04
15	7.711E-05	4.078E-05	-6.856E-05	-3.654E-05	1.120E-04	2.430E-04	9.974E-04	4.658E-04	4.329E-04	3.595E-04	2.168E-04	1.024E-04
20	1.396E-04	-1.704E-04	-1.677E-04	1.959E-04	4.989E-04	6.702E-04	7.773E-04	7.102E-04	4.829E-04	2.686E-04	-6.148E-05	-2.980E-04
30	-5.716E-04	4.039E-05	7.011E-04	1.459E-03	1.590E-03	1.472E-03	1.029E-03	3.574E-04	-5.014E-04	-1.114E-03	-1.941E-03	-2.486E-03
45	1.462E-03	2.999E-03	3.097E-03	2.057E-03	8.114E-04	-2.893E-04	-2.012E-03	-3.791E-03	-5.674E-03	-6.909E-03	-8.511E-03	-9.552E-03
70	3.745E-04	-4.410E-03	-1.760E-03	-2.786E-03	-5.551E-03	-7.081E-03	-6.662E-03	-1.216E-02	-1.475E-02	-1.645E-02	-1.871E-02	-2.023E-02
90	-1.004E-02	-1.496E-02	-1.808E-02	-2.204E-02	-2.661E-02	-2.654E-02	-1.977E-02	-2.255E-02	-2.553E-02	-2.758E-02	-3.042E-02	-3.241E-02
120	-2.396E-02	-2.655E-02	-2.840E-02	-3.107E-02	-3.304E-02	-3.461E-02	-1.709E-02	-3.986E-02	-4.326E-02	-4.589E-02	-5.000E-02	-5.328E-02
150	-1.679E-02	-1.826E-02	-1.934E-02	-2.110E-02	-2.240E-02	-2.346E-02	-2.515E-02	-2.704E-02	-2.949E-02	-3.141E-02	-3.451E-02	-3.709E-02
179	-5.986E-04	-6.560E-04	-6.995E-04	-7.648E-04	-8.141E-04	-8.542E-04	-8.179E-04	-9.906E-04	-1.042E-03	-1.155E-03	-1.274E-03	-1.375E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	2.897E-06	3.154E-06	3.244E-06	3.110E-06	2.940E-06	2.636E-06	2.348E-06	2.075E-06	1.758E-06	1.404E-06	1.052E-06	8.404E-07
2	1.889E-05	1.231E-05	1.203E-05	1.121E-05	1.070E-05	8.788E-06	7.658E-06	6.790E-06	5.547E-06	4.368E-06	3.233E-06	2.572E-06
3	2.618E-05	2.607E-05	2.450E-05	2.177E-05	1.947E-05	1.595E-05	1.354E-05	1.186E-05	9.465E-06	7.308E-06	5.329E-06	4.209E-06
4	4.459E-05	4.269E-05	3.844E-05	3.262E-05	2.810E-05	2.407E-05	1.808E-05	1.530E-05	1.175E-05	8.776E-06	6.228E-06	4.855E-06
6	8.659E-05	7.625E-05	6.280E-05	4.656E-05	3.555E-05	2.220E-05	1.478E-05	1.029E-05	5.459E-06	2.417E-06	7.099E-07	1.666E-07
8	1.227E-04	9.736E-05	6.804E-05	3.614E-05	2.336E-05	-5.230E-06	-1.539E-05	-2.036E-05	-2.368E-05	-2.314E-05	-1.974E-05	-1.666E-05
10	1.391E-04	9.092E-05	3.971E-05	1.243E-05	4.259E-05	-7.224E-05	-8.335E-05	-8.859E-05	-8.409E-05	-7.474E-05	-6.029E-05	-4.979E-05
15	1.184E-05	-1.211E-04	-2.490E-04	3.672E-04	-4.263E-04	-4.685E-04	-6.87E-04	-4.534E-04	-4.105E-04	-3.4489E-04	-2.734E-04	-2.230E-04
20	-4.753E-04	-7.243E-04	-5.525E-04	-1.148E-03	-1.267E-03	-1.267E-03	-1.699E-03	-1.169E-03	-1.040E-03	-8.726E-04	-6.779E-04	-5.511E-04
30	-2.879E-03	-3.412E-03	-3.875E-03	-4.230E-03	-4.341E-03	-4.270E-03	-4.058E-03	-3.814E-03	-3.347E-03	-2.785E-03	-1.51F-03	-7.44E-03
45	-1.030E-02	-1.130E-02	-1.216E-02	-1.274E-02	-1.243E-02	-1.241E-02	-1.171E-02	-1.066E-02	-9.587E-03	-7.963E-03	-6.145E-03	-4.981E-03
60	-2.134E-02	-2.287E-02	-2.420E-02	-2.513E-02	-2.525E-02	-2.445E-02	-2.314E-02	-2.173E-02	-1.910E-02	-1.593E-02	-1.234E-02	-1.002E-02
75	-3.393E-02	-3.612E-02	-3.816E-02	-3.979E-02	-4.022E-02	-3.941E-02	-3.767E-02	-3.564E-02	-3.165E-02	-2.666E-02	-2.081E-02	-1.606E-02
90	-4.556E-02	-4.858E-02	-5.163E-02	-5.505E-02	-5.74E-02	-5.578E-02	-5.418E-02	-5.191E-02	-4.694E-02	-4.016E-02	-3.176E-02	-2.606E-02
120	-5.606E-02	-6.068E-02	-6.610E-02	-7.266E-02	-7.171E-02	-6.259E-02	-4.473E-02	-8.493E-02	-8.217E-02	-7.504E-02	-6.292E-02	-5.317E-02
150	-3.938E-02	-4.339E-02	-4.856E-02	-5.585E-02	-6.204E-02	-7.235E-02	-8.055E-02	-8.712E-02	-9.637E-02	-1.032E-01	-1.035E-01	-9.764E-02
179	-1.666E-03	-1.628E-03	-1.844E-03	-2.165E-03	-2.454E-03	-3.002E-03	-3.513E-03	-4.005E-03	-4.957E-03	-6.341E-03	-8.593E-03	-1.081E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0F+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0F+01	7.0E+01	1.0E+02
1	6.005E-07	4.671E-07	3.822E-07	2.804E-07	2.003E-07	1.357E-07	1.026E-07	6.899E-08	5.196E-08	4.167E-08	2.985E-08	2.094E-08
2	1.829E-06	1.252E-06	1.161E-06	8.508E-07	6.074E-07	4.116E-07	2.992E-07	2.092E-07	1.575E-07	1.264E-07	9.051E-07	6.350E-07
3	2.908E-06	2.252E-06	1.834E-06	1.364E-06	9.602E-07	6.502E-07	4.916E-07	3.304E-07	2.488E-07	1.995E-07	1.429E-07	1.003E-07
4	3.390E-06	2.612E-06	2.127E-06	1.533E-06	1.107E-06	7.489E-07	5.660E-07	3.804E-07	2.864E-07	2.297E-07	1.645E-07	1.154E-07
6	1.286E-07	1.790E-07	-1.791E-07	1.533E-07	1.190E-07	8.410E-08	-6.456E-08	-4.387E-08	-3.317E-08	-2.4663E-08	-1.912E-08	-1.342E-08
8	-1.244E-05	-9.848E-06	-8.130E-06	-6.012E-06	-4.314E-06	-2.932E-06	-2.219E-06	-1.493E-06	-1.125E-06	-9.020E-07	-6.463E-07	-4.534E-07
10	-3.653E-05	-2.873E-05	-2.364E-05	-1.743E-05	-1.249E-05	-8.474E-06	-6.412E-06	-4.312E-06	-3.248E-06	-2.4605E-06	-1.866E-06	-1.309E-06
15	-1.620E-04	-1.269E-04	-1.042E-04	-7.667E-05	-5.448E-05	-3.722E-05	-2.816E-05	-1.893E-05	-1.426E-05	-1.144E-05	-8.195E-06	-5.749E-06
20	-3.991E-04	-3.122E-04	-2.562E-04	-1.884E-04	-1.349E-04	-9.145E-05	-6.917E-05	-4.651E-05	-3.503E-05	-2.810E-05	-2.013E-05	-1.412E-05
30	-1.260E-03	-9.852E-04	-8.082E-04	-5.942E-04	-4.251E-04	-2.882E-04	-2.180E-04	-1.466E-04	-1.104E-04	-8.456E-05	-6.344E-05	-4.450E-05
45	-7.251E-03	-5.671E-03	-4.207E-03	-1.692E-03	-1.214E-03	-8.422E-04	-6.225E-04	-4.185E-04	-3.152E-04	-2.528E-04	-1.811E-04	-1.271E-04
75	-1.231E-02	-9.645E-03	-7.203E-03	-3.422E-03	-2.444E-03	-1.661E-03	-1.256E-03	-8.446E-04	-6.362E-04	-5.103E-04	-3.655E-04	-2.540E-04
90	-1.903E-02	-1.494E-02	-1.228E-02	-9.528E-03	-6.477E-03	-4.830E-03	-3.298E-03	-1.439E-03	-1.084E-03	-8.696E-04	-6.230E-04	-4.370E-04
120	-3.992E-02	-3.171E-02	-2.624E-02	-1.950E-02	-1.398E-02	-9.398E-03	-3.328E-03	-2.238E-03	-1.686E-03	-1.135E-03	-9.646E-04	-6.795E-04
150	-8.247E-02	-6.931E-02	-5.912E-02	-4.515E-02	-3.403E-02	-2.265E-02	-1.744E-02	-1.838E-03	-3.645E-03	-2.892E-03	-2.095E-03	-1.470E-03
179	-1.519E-02	-1.951E-02	-2.376E-02	-3.214E-02	-4.441E-02	-6.4212E-02	-7.723E-02	-9.821E-02	-1.085E-01	-1.113E-01	-1.056E-01	-8.964E-02

MN (25)		SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM								ENERGY (MEV)			
DEG		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-2.049E-08	9.073E-08	2.121E-08	1.633E-07	3.638E-07	4.981E-07	7.646E-07	9.244E-07	1.195E-06	1.529E-06	2.243E-06	2.673E-06	
2	2.769F-07	9.109E-08	7.122E-07	5.173E-07	1.170E-06	1.925E-06	2.276E-06	2.350E-06	4.742E-06	7.088E-06	9.979E-06	1.164E-05	
3	2.037E-07	1.496E-06	5.863E-07	1.649E-06	3.793E-06	4.115E-06	3.447E-06	5.542E-06	1.238E-05	1.754E-05	2.418E-05	2.696E-05	
4	-6.579E-07	2.325E-06	-4.859E-07	5.342E-06	6.962E-06	5.164E-06	4.490E-06	1.126E-05	2.524E-05	3.488E-05	4.433E-05	4.753E-05	
6	6.882E-06	-3.660E-06	4.630E-06	1.492E-05	5.901E-06	1.405E-06	1.109E-05	3.836E-05	7.179E-05	8.863E-05	9.963E-05	9.932E-05	
8	4.209E-06	-1.404E-06	2.532E-05	1.172E-05	-6.348E-06	-1.866E-06	3.714E-05	9.431E-05	1.449E-04	1.632E-04	1.647E-04	1.535E-04	
10	-1.841E-05	2.656E-05	4.247E-05	-1.156E-05	-1.875E-05	1.238E-05	9.497E-05	1.817E-04	2.386E-04	2.478E-04	2.264E-04	1.946E-04	
15	4.515E-05	7.811E-05	-4.653E-05	-7.002E-05	6.818E-05	2.104E-04	3.966E-04	4.972E-04	4.859E-04	4.179E-04	2.728E-04	1.526E-04	
20	1.963E-04	-1.318E-04	-2.133E-04	1.113E-04	4.513E-04	6.657E-04	8.326E-04	8.037E-04	5.879E-04	3.674E-04	1.749E-05	-2.358E-04	
30	-5.681E-04	-2.514E-04	5.250E-04	1.469E-03	1.174E-03	1.670E-03	1.267E-03	5.812E-04	-3.330E-04	-9.953E-04	-1.892E-03	-2.483E-03	
45	1.073E-03	3.052E-03	3.427E-03	2.570E-03	1.318E-03	1.614E-04	-1.694E-03	-3.638E-03	-5.703E-03	-7.054E-03	-8.717E-03	-9.921E-03	
60	5.222E-03	3.686E-03	1.500F-03	-2.208E-03	-4.904E-03	-6.920E-03	-9.771E-03	-1.253E-02	-1.536E-02	-1.722E-02	-1.966E-02	-2.127E-02	
75	1.445E-03	-3.682E-03	-7.362E-03	-1.220E-02	-1.531E-02	-1.755E-02	-2.077E-02	-2.372E-02	-2.696E-02	-2.917E-02	-3.219E-02	-3.429E-02	
90	-9.706E-03	-1.519E-02	-1.867E-02	-2.307E-02	-2.590E-02	-2.779E-02	-3.101E-02	-3.410E-02	-3.757E-02	-4.005E-02	-4.363E-02	-4.626E-02	
120	-2.544E-02	-3.025E-02	-3.313E-02	-3.823E-02	-3.524E-02	-3.693E-02	-3.958E-02	-4.255E-02	-4.618E-02	-4.896E-02	-5.330E-02	-5.675E-02	
150	-1.791E-02	-1.948E-02	-2.068E-02	-2.251E-02	-2.390E-02	-2.504E-02	-2.685E-02	-2.891E-02	-3.150E-02	-3.354E-02	-3.683E-02	-3.956E-02	
179	-6.373E-04	-6.985E-04	-7.450E-04	-8.150E-04	-8.679E-04	-9.110E-04	-9.794E-04	-1.058E-03	-1.155E-03	-1.233E-03	-1.360E-03	-1.467E-03	
DEG		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	3.007E-06	3.321E-06	3.453E-06	3.339E-06	3.149E-06	2.854E-06	2.549E-06	2.297E-06	1.914E-06	1.530E-06	1.147E-06	9.176E-07	
2	1.253E-05	1.300E-05	1.300E-05	1.219E-05	1.125E-05	9.656E-06	8.438E-06	7.496E-06	6.138E-06	4.839E-06	3.589E-06	2.857E-06	
3	2.793E-05	2.818E-05	2.700E-05	2.399E-05	2.154E-05	1.781E-05	1.519E-05	1.335E-05	1.070E-05	8.284E-06	6.059E-06	4.792E-06	
4	4.813E-05	4.675E-05	4.288E-05	3.675E-05	3.102E-05	2.518E-05	2.077E-05	1.772E-05	1.374E-05	1.034E-05	7.390E-06	5.780E-06	
6	4.565E-05	8.570E-05	7.180E-05	5.453E-05	4.268E-05	2.807E-05	1.978E-05	1.465E-05	8.954E-06	5.125E-06	2.692E-06	1.735E-06	
8	1.395E-04	1.133E-04	8.253E-05	4.832E-05	2.685E-05	2.985E-06	-4.623E-06	-1.459E-05	-1.920E-05	-1.976E-05	-1.731E-05	-1.476E-05	
10	1.643E-04	1.138E-04	5.930E-05	3.100E-05	-2.943E-05	-6.292E-05	-7.606E-05	-8.061E-05	-7.971E-05	-7.160E-05	-5.814E-05	-4.814E-05	
15	5.629E-05	-8.609E-05	-2.240E-04	-3.523E-04	-4.172E-04	-4.659E-04	-4.691E-04	-4.554E-04	-4.137E-04	-3.525E-04	-2.766E-04	-2.548E-04	
20	-4.266E-04	-6.954E-04	-9.421E-04	-1.154E-03	-1.249E-03	-1.291E-03	-1.256E-03	-1.195E-03	-1.065E-03	-8.945E-04	-6.954E-04	-5.654E-04	
30	-2.909E-03	-3.845E-03	-4.383E-03	-4.365E-03	-4.473E-03	-4.420E-03	-4.204E-03	-3.951E-03	-3.468E-03	-2.887E-03	-2.230E-03	-1.808E-03	
45	-1.072E-02	-1.179E-02	-1.269E-02	-1.331E-02	-1.360E-02	-1.245E-02	-1.222E-02	-1.143E-02	-9.997E-03	-8.301E-03	-6.404E-03	-5.190E-03	
60	-2.245E-02	-2.405E-02	-2.544E-02	-2.639E-02	-2.649E-02	-2.562E-02	-2.423E-02	-2.274E-02	-1.996E-02	-1.665E-02	-1.289E-02	-1.048E-02	
75	-3.588E-02	-3.816E-02	-4.020E-02	-4.190E-02	-4.230E-02	-4.138E-02	-3.950E-02	-3.735E-02	-3.314E-02	-2.789E-02	-2.175E-02	-1.773E-02	
90	-4.833E-02	-5.145E-02	-5.459E-02	-5.751E-02	-5.875E-02	-5.866E-02	-5.690E-02	-5.448E-02	-4.919E-02	-4.205E-02	-3.323E-02	-2.725E-02	
120	-5.966E-02	-6.448E-02	-7.012E-02	-7.692E-02	-8.163E-02	-8.711E-02	-8.924E-02	-8.936E-02	-8.632E-02	-7.871E-02	-6.511E-02	-5.566E-02	
150	-4.196E-02	-4.619E-02	-5.162E-02	-5.926E-02	-6.574E-02	-7.657E-02	-8.516E-02	-9.202E-02	-1.017E-01	-1.086E-01	-1.087E-01	-1.023E-01	
179	-1.563E-03	-1.734E-03	-1.961E-03	-2.299E-03	-2.609E-03	-3.183E-03	-3.722E-03	-4.242E-03	-5.248E-03	-6.711E-03	-9.042E-03	-1.144E-02	
DEG		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	6.555E-07	5.099E-07	4.173E-07	3.061E-07	2.187E-07	1.482E-07	1.121E-07	7.533E-08	5.674E-08	4.550F-08	3.260F-08	2.287E-08	
2	2.032E-06	1.578E-06	1.291E-06	9.459E-07	6.755E-07	4.576E-07	3.460E-07	2.326E-07	1.752E-07	1.405F-07	1.006F-07	7.060E-08	
3	3.390E-06	2.626E-06	2.145E-06	1.570E-06	1.121E-06	7.589E-07	5.737E-07	3.856E-07	2.904E-07	2.329F-07	1.668F-07	1.143E-07	
4	4.048E-06	3.123E-06	2.545E-06	1.860E-06	1.376E-06	8.972E-07	6.782E-07	4.557E-07	3.432E-07	2.752F-07	1.972F-07	1.383E-07	
6	4.812E-07	6.811E-07	5.233F-07	3.605E-07	2.491E-07	1.645E-07	1.233E-07	8.245E-08	6.197E-08	4.965E-08	3.554E-08	2.492E-08	
8	-1.111E-05	-8.819E-06	-7.291E-06	-5.399E-06	-3.878E-06	-2.636E-06	-1.996E-06	-1.343E-06	-1.011E-06	-8.113E-07	-5.812E-07	-4.078E-07	
10	-3.540E-05	-2.786E-05	-2.293E-05	-1.691E-05	-1.212E-05	-8.228E-06	-6.226E-06	-4.187E-06	-3.154E-06	-2.530E-06	-1.812E-06	-1.272E-06	
15	-1.641E-04	-1.286E-04	-1.050E-04	-7.770E-05	-5.562E-05	-3.773E-05	-2.854E-05	-1.919E-05	-1.446E-05	-1.159F-05	-8.306E-06	-5.827E-06	
20	-4.096E-04	-3.205E-04	-2.430E-04	-1.934E-04	-1.384E-04	-9.387E-05	-7.101E-05	-4.774E-05	-3.596E-05	-2.884E-05	-2.066E-05	-1.451E-05	
30	-1.307E-03	-1.021E-03	-8.377E-04	-6.159E-04	-4.404E-04	-2.988E-04	-2.260E-04	-1.520E-04	-1.145E-04	-9.180E-05	-6.576F-05	-4.613E-05	
45	-3.750E-03	-2.931E-03	-2.404E-03	-1.767E-03	-1.264E-03	-8.573E-04	-6.485E-04	-4.360E-04	-3.284E-04	-2.634E-04	-1.887E-04	-1.324E-04	
60	-7.576E-03	-5.920E-03	-4.858F-03	-3.572E-03	-2.565E-03	-1.733E-03	-1.311E-03	-8.816E-04	-6.640E-04	-5.376E-04	-3.815E-04	-2.677E-04	
75	-1.287E-02	-1.048E-02	-8.275E-03	-6.089E-03	-4.359E-03	-2.956E-03	-2.236E-03	-1.504E-03	-1.133E-03	-9.045F-04	-6.508F-04	-4.560E-04	
90	-1.989E-02	-1.562E-02	-1.284E-02	-9.459E-03	-6.775F-03	-4.597E-03	-3.478E-03	-2.339E-03	-1.742E-03	-1.413F-03	-1.012F-03	-7.102E-04	
120	-4.176E-02	-3.317E-02	-2.743F-02	-2.033E-02	-1.461E-02	-9.592E-03	-7.517E-03	-5.058E-03	-3.811E-03	-3.057F-03	-2.190F-03	-1.535E-03	
150	-8.641E-02	-7.257E-02	-6.186E-02	-4.722E-02	-3.454E-02	-2.372E-02	-1.803E-02	-1.216E-02	-9.171E-03	-7.360F-03	-5.275F-03	-3.702E-03	
179	-1.607E-02	-2.064E-02	-2.515E-02	-3.399E-02	-4.663E-02	-6.564E-02	-9.156E-02	-1.036E-01	-1.142E-01	-1.170E-01	-1.104F-01	-9.393E-02	

FE (°)	SHERMAN FUNCTION: DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM											ENERGY (MeV)
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	3.837E-09	6.063E-08	1.880E-07	1.665E-07	1.844E-07	3.324E-07	7.668E-07	9.655E-07	1.206E-06	1.429E-06	2.231E-06	2.687E-06
2	1.749E-07	-4.915E-08	7.633E-07	3.647E-07	9.237E-07	1.946E-06	2.181E-06	2.345E-06	4.524E-06	6.945E-06	9.994E-06	1.208E-05
3	5.853E-07	9.589E-07	1.769E-06	9.012E-07	3.779E-06	4.458E-06	3.940E-06	4.996E-06	1.168E-05	1.729E-05	2.461E-05	2.772E-05
4	-4.693E-07	3.083E-06	-2.871E-07	4.234E-06	7.126E-06	6.410E-06	4.643E-06	9.726E-06	2.400E-05	3.473E-05	4.644E-05	5.037E-05
6	5.020E-06	-2.111E-06	6.670E-07	1.679E-05	9.587E-06	2.577E-06	7.319E-06	3.389E-05	7.064E-05	9.111E-05	1.061E-04	1.076E-04
8	1.160E-05	-8.336E-06	2.130E-05	1.985E-05	-3.587E-06	-6.286E-06	2.702E-05	8.780E-05	1.476E-04	1.719E-04	1.795E-04	1.697E-04
10	-1.045E-05	1.328E-05	4.893E-05	-1.083E-06	-2.409E-05	-2.429E-06	7.908E-05	1.770E-04	2.494E-04	2.671E-04	2.520E-04	2.212E-04
15	5.474E-06	1.094E-04	-1.330E-05	-9.618E-05	2.195E-05	1.706E-04	3.868E-04	5.228E-04	5.377E-04	4.776E-04	3.323E-04	2.069E-04
20	2.272E-04	-6.971E-05	-2.386E-04	2.067E-05	3.870E-04	6.437E-04	8.763E-04	8.943E-04	6.973E-04	4.733E-04	1.054E-04	-1.650E-04
30	-4.971E-04	-4.521E-04	3.165E-04	1.435E-03	1.030E-03	1.854E-03	1.511E-03	8.226E-04	-1.425E-04	-8.545E-04	-1.824E-03	-2.465E-03
45	6.060E-04	3.007E-03	3.699E-03	3.087E-03	1.860E-03	6.590E-04	-1.323E-03	-3.435E-03	-5.692E-03	-7.167E-03	-9.061E-03	-1.027E-02
60	5.650E-03	4.528E-03	2.727E-03	-1.540E-03	-4.466E-03	-6.675E-03	-9.814E-03	-1.285E-02	-1.595E-02	-1.797E-02	-2.059E-02	-2.231E-02
75	2.602E-03	-2.828E-03	-6.841E-03	-1.218E-02	-1.562E-02	-1.810E-02	-2.154E-02	-2.488E-02	-2.839E-02	-3.076E-02	-3.348E-02	-3.620E-02
90	-9.226E-03	-1.531E-02	-1.918E-02	-2.405E-02	-2.717E-02	-2.946E-02	-3.275E-02	-3.609E-02	-3.981E-02	-4.246E-02	-4.624E-02	-4.899E-02
120	-2.693E-02	-3.000E-02	-3.215E-02	-3.523E-02	-3.749E-02	-3.930E-02	-4.214E-02	-4.531E-02	-4.916E-02	-5.212E-02	-5.669E-02	-6.030E-02
150	-1.906E-02	-2.072E-02	-2.200E-02	-2.395E-02	-2.544E-02	-2.665E-02	-2.859E-02	-3.079E-02	-3.355E-02	-3.572E-02	-3.921E-02	-4.209E-02
179	-6.768E-04	-7.420E-04	-7.915E-04	-8.662E-04	-9.228E-04	-9.689E-04	-1.042E-03	-1.126E-03	-1.231E-03	-1.314E-03	-1.448E-03	-1.561E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	3.093E-06	3.438E-06	3.657E-06	3.569E-06	3.383E-06	3.077E-06	2.754E-06	2.485E-06	2.075E-06	1.661E-06	1.246E-06	9.967E-07
2	1.312E-05	1.379E-05	1.394E-05	1.309E-05	1.227E-05	1.049E-05	9.247E-06	8.229E-06	6.753E-06	5.333E-06	3.960E-06	3.154E-06
3	2.958E-05	3.025E-05	2.918E-05	2.627E-05	2.372E-05	1.975E-05	1.692E-05	1.491E-05	1.199E-05	9.313E-06	6.828E-06	5.406E-06
4	5.158E-05	5.077E-05	4.708E-05	4.051E-05	3.370E-05	2.846E-05	2.367E-05	2.029E-05	1.584E-05	1.201E-05	8.627E-06	6.755E-06
6	1.046E-04	9.531E-05	8.114E-05	6.296E-05	5.076E-05	3.436E-05	2.516E-05	1.936E-05	1.274E-05	8.067E-06	4.851E-06	3.445E-06
8	1.567E-04	1.298E-04	9.791E-05	6.145E-05	3.824E-05	1.199E-05	-1.151E-06	-8.187E-06	-1.419E-05	-1.596E-05	-1.457E-05	-1.261E-05
10	1.908E-04	1.383E-04	8.073E-05	2.020E-05	-1.561E-05	-5.236E-05	-6.768E-05	-7.367E-05	-7.453E-05	-6.783E-05	-5.552E-05	-4.612E-05
15	1.651E-04	-4.687E-05	-1.951E-04	-3.340E-04	-4.053E-04	-4.608E-04	-4.673E-04	-4.554E-04	-4.154E-04	-3.548E-04	-2.789E-04	-2.278E-04
20	-3.699E-04	-6.592E-04	-9.254E-04	-1.156E-04	-1.260E-03	-1.310E-03	-1.279E-03	-1.220E-03	-1.087E-03	-9.147E-04	-7.116E-04	-5.787E-04
30	-2.925E-03	-3.545E-03	-4.082E-03	-4.494E-03	-4.628E-03	-4.566E-03	-4.345E-03	-4.085E-03	-3.587E-03	-2.986E-03	-2.306E-03	-1.870E-03
45	-1.113E-02	-1.228E-02	-1.323E-02	-1.387E-02	-1.397E-02	-1.349E-02	-1.272E-02	-1.091E-02	-1.041E-02	-8.638E-03	-6.662E-03	-5.399E-03
60	-2.356E-02	-2.525E-02	-2.667E-02	-2.765E-02	-2.774E-02	-2.679E-02	-2.532E-02	-2.375E-02	-2.084E-02	-1.736E-02	-1.343E-02	-1.090E-02
75	-3.786E-02	-4.022E-02	-4.230E-02	-4.404E-02	-4.441E-02	-4.337E-02	-4.136E-02	-3.908E-02	-3.464E-02	-2.913E-02	-2.271E-02	-1.850E-02
90	-5.115E-02	-5.439E-02	-5.761E-02	-6.057E-02	-6.190E-02	-6.158E-02	-5.966E-02	-5.706E-02	-5.147E-02	-4.395E-02	-3.471E-02	-2.845E-02
120	-6.335E-02	-6.838E-02	-7.424E-02	-8.128E-02	-8.014E-02	-8.172E-02	-8.384E-02	-9.385E-02	-9.052E-02	-8.242E-02	-6.892E-02	-5.817E-02
150	-4.462E-02	-4.906E-02	-5.476E-02	-6.277E-02	-6.760E-02	-8.090E-02	-8.987E-02	-9.702E-02	-1.070E-01	-1.142E-01	-1.141E-01	-1.074E-01
179	-1.662E-03	-1.842E-03	-2.082E-03	-2.438E-03	-2.764E-03	-3.368E-03	-3.937E-03	-4.485E-03	-5.547E-03	-7.090E-03	-9.603E-03	-1.208E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	7.122E-07	5.541E-07	4.535E-07	3.327E-07	2.377E-07	1.611E-07	1.218E-07	8.188E-08	6.167E-08	4.946E-08	3.543E-08	2.486E-08
2	2.245E-06	1.744E-06	1.420E-06	1.045E-06	7.465E-07	5.057E-07	3.824E-07	2.571E-07	1.976E-07	1.553E-07	1.112E-07	7.803E-08
3	3.428E-06	2.967E-06	2.424E-06	1.775E-06	1.267E-06	8.579E-07	6.486E-07	4.360E-07	3.283E-07	2.633E-07	1.886E-07	1.323E-07
4	4.749E-06	3.668E-06	2.991E-06	2.186E-06	1.559E-06	1.055E-06	7.977E-07	5.361E-07	4.037E-07	3.238E-07	2.319E-07	1.627E-07
6	2.192E-06	1.620E-06	1.290E-06	9.222E-07	6.490E-07	4.360E-07	3.287E-07	2.204E-07	1.659E-07	1.330E-07	9.523E-08	6.679E-08
8	-9.995E-06	-7.651E-06	-6.339E-06	-4.703E-06	-3.382E-06	-2.300E-06	-1.741E-06	-1.172E-06	-8.828E-07	-7.081E-07	-5.073E-07	-3.559E-07
10	-3.403E-05	-2.679E-05	-2.206E-05	-1.628E-05	-1.167E-05	-7.921E-06	-5.994E-06	-4.032E-06	-3.037E-06	-2.436E-06	-1.745E-06	-1.224E-06
15	-1.657E-04	-1.248E-04	-1.060E-04	-7.849E-05	-5.019E-05	-3.081E-05	-2.883E-05	-1.939E-05	-1.460E-05	-1.171E-05	-8.391E-06	-5.887E-06
20	-4.193E-04	-3.281E-04	-2.693E-04	-1.981E-04	-1.417E-04	-9.613E-05	-7.272E-05	-4.849E-05	-3.683E-05	-2.954E-05	-2.116E-05	-1.484E-05
30	-1.352E-03	-1.057E-03	-8.667E-04	-6.372E-04	-4.350E-04	-3.091E-04	-2.338E-04	-1.572E-04	-1.184E-04	-9.497E-05	-6.803E-05	-4.773E-05
45	-3.906E-03	-3.048E-03	-2.500E-03	-1.838E-03	-1.315E-03	-8.916E-04	-6.744E-04	-4.553E-04	-3.415E-04	-2.739E-04	-1.962E-04	-1.377E-04
60	-7.890E-03	-6.170E-03	-5.062E-03	-3.723E-03	-2.644E-03	-1.896E-03	-1.366E-03	-9.187E-04	-6.920E-04	-5.550E-04	-3.976E-04	-2.789E-04
75	-1.342E-02	-1.051E-02	-8.631E-03	-6.351E-03	-4.946E-03	-3.083E-03	-2.333E-03	-1.568E-03	-1.181E-03	-9.475E-04	-6.788E-04	-4.762E-04
90	-2.076E-02	-1.630E-02	-1.340E-02	-9.870E-03	-7.069E-03	-4.796E-03	-3.629E-03	-2.440E-03	-1.838E-03	-1.474E-03	-1.056E-03	-7.419E-04
120	-4.361E-02	-3.463E-02	-2.864E-02	-2.122E-02	-1.524E-02	-1.036E-02	-7.846E-03	-5.279E-03	-3.977E-03	-3.190E-03	-2.285E-03	-1.603E-03
150	-4.039E-02	-3.785E-02	-3.463E-02	-4.931E-02	-3.606E-02	-2.476E-02	-1.881E-02	-1.269E-02	-9.572E-03	-7.682E-03	-5.506E-03	-3.863E-03
179	-1.697E-03	-2.179E-02	-2.658E-02	-3.588E-02	-4.722E-02	-6.925E-02	-8.598E-02	-1.090E-01	-1.201E-01	-1.229E-01	-1.161E-01	-9.826E-02

CU (27)		SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)	
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02	
1	1.285E-08	2.863E-08	5.701E-08	2.502E-07	2.608E-07	4.567E-07	7.555E-07	1.855E-07	1.226E-06	1.553E-06	2.210E-06	2.805E-06	
2	-7.856E-04	2.849E-08	5.520E-07	4.697E-07	9.243E-07	1.848E-06	2.535E-06	2.688E-06	3.922E-06	6.174E-06	1.003E-05	1.208E-05	
3	1.106E-06	4.984E-07	1.867E-06	4.282E-07	3.306E-06	4.695E-06	4.452E-06	4.719E-06	1.091E-05	1.709E-05	2.499E-05	2.878E-05	
4	-4.072E-07	3.137E-06	7.733E-07	2.829E-06	8.203E-06	7.734E-06	4.754E-06	8.470E-06	2.259E-05	3.418E-05	5.294E-05	5.298E-05	
6	1.253E-06	1.171E-06	-2.724E-06	1.722E-05	1.363E-05	4.909E-06	4.462E-06	2.867E-05	6.865E-05	9.258E-05	1.121E-04	1.157E-04	
8	1.615E-05	-1.202E-05	1.411E-05	2.774E-05	1.746E-06	-8.316E-06	1.715E-05	1.931E-05	1.482E-04	1.793E-04	1.936E-04	1.864E-04	
10	3.143E-06	-2.116E-06	4.954E-05	1.276E-05	-2.492E-05	-1.502E-05	6.133E-05	1.689E-04	2.578E-04	2.850E-04	2.773E-04	2.488E-04	
15	-3.593E-05	1.289E-04	2.750E-05	-1.118E-04	-2.370E-05	1.248E-04	7.678E-04	5.417E-04	5.875E-04	5.381E-04	3.951E-04	2.653E-04	
20	2.245E-04	1.039E-05	-2.787E-04	-7.120E-05	3.075E-04	6.037E-04	9.060E-04	9.801E-04	8.097E-04	5.857E-04	2.017E-04	-8.572E-05	
30	-3.603E-04	-6.271E-04	8.490E-05	1.357E-03	1.907E-03	2.021E-03	1.757E-03	1.080E-03	6.969E-05	-6.917E-04	-1.737E-03	-2.429E-03	
45	8.042E-05	2.858E-03	3.900E-03	3.598E-03	2.478E-03	1.200E-03	-8.977E-04	-3.180E-03	-5.638E-03	-7.744E-03	-9.299E-03	-1.061E-02	
60	5.956E-03	5.360E-03	3.973E-03	-7.836E-04	-3.973E-03	-6.344E-03	-9.783E-03	-1.311E-02	-1.651E-02	-1.869E-02	-2.152E-02	-2.335E-02	
75	3.830E-03	-1.849E-03	-6.192E-03	-1.205E-02	-1.595E-02	-1.658E-02	-2.236E-02	-2.601E-02	-2.981E-02	-3.236E-02	-3.579E-02	-3.812E-02	
90	-8.599E-03	-1.531E-02	-1.959E-02	-2.497E-02	-2.841E-02	-3.091E-02	-3.449E-02	-3.810E-02	-4.209E-02	-4.491E-02	-4.891E-02	-5.178E-02	
120	-2.843E-02	-3.176E-02	-3.407E-02	-3.738E-02	-3.979E-02	-4.172E-02	-4.475E-02	-4.812E-02	-5.222E-02	-5.535E-02	-6.017E-02	-6.395E-02	
150	-2.024E-02	-2.200E-02	-2.330E-02	-2.542E-02	-2.708E-02	-2.830E-02	-3.036E-02	-3.272E-02	-3.565E-02	-3.795E-02	-4.165E-02	-4.468E-02	
179	-7.170E-04	-7.862E-04	-8.383E-04	-9.184E-04	-9.788E-04	-1.028E-03	-1.106E-03	-1.196E-03	-1.308E-03	-1.396E-03	-1.539E-03	-1.658E-03	
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00	
1	3.165E-06	3.622E-06	3.854E-06	3.840E-06	3.637E-06	3.262E-06	2.963E-06	2.678E-06	2.239E-06	1.794E-06	1.329E-06	1.078E-06	
2	1.344E-05	1.475E-05	1.487E-05	1.421E-05	1.324E-05	1.147E-05	1.008E-05	8.988E-06	7.391E-06	5.846E-06	4.346E-06	3.464E-06	
3	3.134E-05	3.229E-05	3.140E-05	2.861E-05	2.597E-05	2.176E-05	1.871E-05	1.644E-05	1.332E-05	1.039E-05	7.636E-06	6.052E-06	
4	5.498E-05	5.478E-05	5.137E-05	4.477E-05	3.964E-05	3.190E-05	2.669E-05	2.299E-05	1.807E-05	1.377E-05	9.938E-06	7.810E-06	
6	1.138E-04	1.052E-04	9.103E-05	7.184E-05	5.870E-05	4.107E-05	3.092E-05	2.442E-05	1.682E-05	1.125E-05	7.187E-06	5.297E-06	
8	1.743E-04	1.474E-04	1.142E-04	7.550E-05	5.052E-05	2.179E-05	7.029E-06	-1.147E-06	-8.658E-06	-1.174E-05	-1.152E-05	-1.021E-05	
10	2.185E-04	1.643E-04	1.034E-04	3.883E-05	3.414E-08	-4.054E-05	-5.819E-05	-6.574E-05	-6.854E-05	-6.341E-05	-5.242E-05	-4.371E-05	
15	1.581E-04	-3.377E-06	-1.621E-04	-3.117E-04	-3.972E-04	-4.531E-04	-4.633E-04	-4.535E-04	-4.155E-04	-3.559E-04	-2.803E-04	-2.291E-04	
20	-3.049E-04	-6.154E-04	-9.021E-04	-1.151E-03	-1.266E-03	-1.326E-03	-1.298E-03	-1.240E-03	-1.108E-03	-9.330E-04	-7.264E-04	-5.910E-04	
30	-2.925E-03	-3.593E-03	-4.170E-03	-4.615E-03	-4.743E-03	-4.707E-03	-4.482E-03	-4.216E-03	-3.703E-03	-3.083E-03	-2.382E-03	-1.931E-03	
45	-1.153E-02	-1.275E-02	-1.776E-02	-1.444E-02	-1.453E-02	-1.404E-02	-1.323E-02	-1.238E-02	-1.081E-02	-8.973E-03	-6.919E-03	-5.606E-03	
60	-2.467E-02	-2.645E-02	-2.794E-02	-2.893E-02	-2.899E-02	-2.798E-02	-2.641E-02	-2.476E-02	-2.171E-02	-1.808E-02	-1.398E-02	-1.135E-02	
75	-3.987E-02	-4.232E-02	-4.454E-02	-4.621E-02	-4.658E-02	-4.538E-02	-4.323E-02	-4.081E-02	-3.615E-02	-3.037E-02	-2.366E-02	-1.927E-02	
90	-5.403E-02	-5.738E-02	-6.069E-02	-6.369E-02	-6.489E-02	-6.454E-02	-6.245E-02	-5.968E-02	-5.377E-02	-4.587E-02	-3.620E-02	-2.966E-02	
120	-6.714E-02	-7.237E-02	-7.815E-02	-8.574E-02	-9.073E-02	-9.643E-02	-9.851E-02	-9.842E-02	-9.478E-02	-8.617E-02	-7.196E-02	-6.069E-02	
150	-4.735E-02	-5.201E-02	-5.790E-02	-6.637E-02	-7.352E-02	-8.532E-02	-9.469E-02	-1.021E-01	-1.125E-01	-1.199E-01	-1.195E-01	-1.123E-01	
179	-1.764E-03	-1.954E-03	-2.206E-03	-2.580E-03	-2.973E-03	-3.559E-03	-4.158E-03	-4.735E-03	-5.853E-03	-7.479E-03	-1.013E-02	-1.274E-02	
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02	
1	7.707E-07	7.997E-07	4.900E-07	3.601E-07	2.573E-07	1.743E-07	1.318E-07	8.863E-08	6.675E-08	5.353E-08	3.835E-08	2.690E-08	
2	2.466E-06	1.916E-06	1.567E-06	1.149E-06	8.205E-07	5.558E-07	4.203E-07	2.825E-07	2.128E-07	1.707E-07	1.222E-07	8.576E-08	
3	4.289E-06	3.325E-06	2.717E-06	1.990E-06	1.470E-06	9.620E-07	7.273E-07	4.889E-07	3.682E-07	2.953E-07	2.115E-07	1.484E-07	
4	5.493E-06	4.246E-06	3.464E-06	2.533E-06	1.807E-06	1.223E-06	9.245E-07	6.213E-07	4.679E-07	3.753E-07	2.688E-07	1.886E-07	
6	3.505E-06	2.638E-06	2.122E-06	1.531E-06	1.094E-06	7.306E-07	5.514E-07	3.701E-07	2.786E-07	2.234E-07	1.600E-07	1.122E-07	
8	-1.903E-06	-6.343E-06	-5.271E-06	-3.922E-06	-2.825E-06	-1.923E-06	-1.456E-06	-9.801E-07	-7.385E-07	-5.924E-07	-4.245E-07	-2.978E-07	
10	-3.232E-05	-2.550E-05	-2.101E-05	-1.551E-05	-1.112E-05	-7.553E-06	-5.716E-06	-3.844E-06	-2.896E-06	-2.323E-06	-1.664E-06	-1.167E-06	
15	-1.668E-04	-1.307E-04	-1.074E-04	-7.903E-05	-5.658E-05	-3.338E-05	-2.904E-05	-1.933E-05	-1.471E-05	-1.180E-05	-8.450E-06	-5.928E-06	
20	-4.283E-04	-3.352E-04	-2.751E-04	-2.024E-04	-1.448E-04	-9.821E-05	-7.429E-05	-4.996E-05	-3.763E-05	-3.018E-05	-2.162E-05	-1.517E-05	
30	-1.396E-03	-1.091E-03	-8.950E-04	-6.580E-04	-4.708E-04	-3.182E-04	-2.415E-04	-1.623E-04	-1.223E-04	-9.807E-05	-7.026E-05	-4.929E-05	
45	-4.050E-03	-3.165E-03	-2.596E-03	-1.909E-03	-1.365E-03	-9.258E-04	-7.002E-04	-4.708E-04	-3.546E-04	-2.844E-04	-2.037E-04	-1.429E-04	
60	-8.216E-03	-6.420E-03	-5.267E-03	-3.873E-03	-2.771E-03	-1.879E-03	-1.422E-03	-9.558E-04	-7.199E-04	-5.774E-04	-4.136E-04	-2.902E-04	
75	-1.398E-02	-1.095E-02	-8.989E-03	-6.614E-03	-4.774E-03	-3.211E-03	-2.429E-03	-1.730E-03	-1.230E-03	-9.867E-04	-7.068E-04	-4.959E-04	
90	-2.164E-02	-1.698E-02	-1.396E-02	-1.028E-02	-7.364E-03	-4.977E-03	-3.780E-03	-2.542E-03	-1.915E-03	-1.536E-03	-1.100E-03	-7.719E-04	
120	-4.548E-02	-3.610E-02	-2.985E-02	-2.211E-02	-1.589E-02	-1.080E-02	-8.176E-03	-5.501E-03	-4.144E-03	-3.324E-03	-2.382E-03	-1.671E-03	
150	-9.440E-02	-7.915E-02	-6.742E-02	-5.142E-02	-3.759E-02	-2.580E-02	-1.961E-02	-1.323E-02	-9.975E-03	-8.005E-03	-5.737E-03	-4.026E-03	
179	-1.789E-02	-2.298E-02	-2.800E-02	-3.782E-02	-5.187E-02	-7.293E-02	-9.050E-02	-1.146E-01	-1.260E-01	-1.288E-01	-1.215E-01	-1.026E-01	

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-2.559E-09	3.780E-08	7.118E-08	1.228E-07	3.045E-07	4.531E-07	7.328E-07	1.040E-06	1.162E-06	1.384E-06	2.191E-06	2.836E-06
2	-5.626E-08	1.927E-07	2.171E-07	6.810E-07	7.591E-07	1.666E-06	2.734E-06	2.797E-06	3.721E-06	5.897E-06	9.933E-06	1.229E-05
3	9.714E-07	-2.102E-06	1.854E-06	3.173E-06	2.449E-06	4.701E-06	8.787E-06	4.639E-06	2.076E-05	3.329E-05	5.250E-05	5.527E-05
4	9.235E-07	2.335E-06	1.937E-06	1.308E-06	7.684E-06	8.787E-06	5.595E-06	7.390E-06	2.076E-05	3.329E-05	5.250E-05	5.527E-05
6	-2.547E-06	5.156E-06	4.761E-06	1.592E-05	1.741E-05	8.100E-06	6.635E-06	2.349E-05	6.555E-05	9.304E-05	1.174E-04	1.233E-04
8	-1.567E-05	-1.611E-05	5.176E-06	3.401E-05	9.163E-06	7.461E-06	7.979E-06	6.953E-05	1.466E-04	3.801E-04	7.072E-04	2.030E-04
10	-6.946E-05	-1.669E-05	4.378E-05	2.229E-05	-2.104E-05	2.445E-05	4.257E-05	1.573E-04	2.630E-04	3.010E-04	2.072E-04	2.771E-04
15	1.857E-04	1.325E-04	7.170E-05	-1.150E-04	6.384E-05	7.498E-05	3.397E-04	5.528E-04	6.344E-04	5.987E-04	4.607E-04	3.273E-04
20	-1.676E-04	1.001E-04	-2.118E-04	-1.587E-04	2.154E-04	5.499E-04	9.216E-04	1.059E-03	9.239E-04	7.037E-04	3.062E-04	2.214E-06
30	-1.676E-04	2.615E-04	1.234E-03	1.234E-03	1.377E-03	2.163E-03	3.000E-03	1.349E-03	3.032E-04	-5.064E-04	-1.629E-03	-2.374E-03
45	-4.782E-04	2.664E-03	4.017E-03	4.091E-03	3.017E-03	1.781E-03	4.202E-04	-2.871E-03	5.538E-03	7.284E-03	9.510E-03	1.092E-02
60	6.119E-03	6.161E-03	4.250E-03	5.831E-03	-3.132E-03	-5.923E-03	-9.677E-03	-1.332E-02	-1.702E-02	1.939E-02	-2.843E-02	-2.439E-02
75	5.109E-03	7.510E-04	-5.615E-03	-1.181E-02	-1.589E-02	-1.898E-02	-2.313E-02	-2.711E-02	-3.123E-02	-3.707E-02	-5.162E-02	-5.400E-02
90	-7.826E-03	-1.519E-02	-1.991E-02	-2.584E-02	-2.842E-02	-3.235E-02	-3.623E-02	-4.013E-02	-4.441E-02	-4.740E-02	-5.162E-02	-5.463E-02
120	-2.594E-02	-3.354E-02	-3.603E-02	-3.956E-02	-4.214E-02	-4.420E-02	-4.741E-02	-5.100E-02	-5.595E-02	-5.865E-02	-6.372E-02	-6.769E-02
150	-2.144E-02	-2.331E-02	-2.474E-02	-2.693E-02	-2.874E-02	-2.998E-02	-3.217E-02	-3.469E-02	-3.780E-02	-4.025E-02	-4.615E-02	-4.735E-02
179	-7.580E-04	-8.313E-04	-8.472E-04	-9.715E-04	-1.046E-03	-1.088E-03	-1.172E-03	-1.267E-03	-1.366E-03	-1.400E-03	-1.531E-03	-1.757E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	3.190E-06	3.754E-06	4.042E-06	4.066E-06	3.871E-06	3.484E-06	3.135E-06	2.874E-06	2.407E-06	1.931E-06	1.451E-06	1.162E-06
2	1.413E-05	1.569E-05	1.570E-05	1.520E-05	1.475E-05	1.242E-05	1.095E-05	9.770E-06	8.050E-06	6.377E-06	4.747E-06	3.783E-06
3	3.223E-05	3.427E-05	3.779E-05	3.128E-05	2.475E-05	2.384E-05	2.058E-05	1.812E-05	1.467E-05	1.155E-05	8.432E-06	6.680E-06
4	5.814E-05	5.867E-05	5.574E-05	4.895E-05	4.342E-05	3.549E-05	2.987E-05	2.583E-05	2.041E-05	1.563E-05	1.132E-05	8.913E-06
6	1.288E-04	1.522E-04	1.007E-04	8.114E-05	6.678E-05	4.819E-05	3.706E-05	2.593E-05	2.119E-05	1.466E-05	9.702E-06	7.292E-06
8	1.652E-04	1.655E-04	1.313E-04	9.047E-05	6.369E-05	3.239E-05	1.593E-05	6.398E-06	2.585E-06	7.083E-06	-8.144E-06	-7.549E-06
10	2.472E-04	1.917E-04	1.280E-04	5.902E-05	1.715E-04	-2.745E-05	4.758E-05	-5.681E-05	-6.171E-05	-5.834E-05	-4.882E-05	-4.091E-05
15	2.314E-04	4.441E-05	-1.254E-04	-2.863E-04	-1.142E-04	-4.427E-04	-4.570E-04	-4.493E-04	-4.139E-04	-3.547E-04	-2.807E-04	-2.297E-04
20	-2.314E-04	-5.639E-04	-8.721E-04	-1.142E-04	-1.142E-04	-1.338E-03	-1.314E-03	-1.259E-03	-1.126E-03	-9.495E-04	-7.398E-04	-6.021E-04
30	-2.909E-03	-3.628E-03	-4.445E-03	-4.723E-03	-4.842E-03	-4.842E-03	-4.715E-03	-4.342E-03	-3.815E-03	-3.177E-03	-2.455E-03	-1.691E-03
45	-1.919E-02	-1.321E-02	-1.428E-02	-1.499E-02	-1.509E-02	-1.457E-02	-1.284E-02	-1.122E-02	-1.122E-02	-9.307E-03	-7.175E-03	-5.613E-03
60	-2.578E-02	-2.765E-02	-2.921E-02	-3.021E-02	-3.074E-02	-2.916E-02	-2.751E-02	-2.578E-02	-2.259E-02	-1.840E-02	-1.454E-02	-1.179E-02
75	-4.190E-02	-4.445E-02	-4.673E-02	-4.841E-02	-4.878E-02	-4.741E-02	-4.512E-02	-4.257E-02	-3.766E-02	-3.162E-02	-2.462E-02	-2.003E-02
90	-5.697E-02	-6.043E-02	-6.383E-02	-6.686E-02	-6.807E-02	-6.754E-02	-6.527E-02	-6.232E-02	-5.609E-02	-4.780E-02	-3.759E-02	-3.087E-02
120	-7.102E-02	-7.646E-02	-8.271E-02	-9.029E-02	-9.242E-02	-9.012E-01	-1.033E-01	-1.031E-01	-9.908E-02	-8.986E-02	-7.503E-02	-6.323E-02
150	-5.015E-02	-5.503E-02	-6.124E-02	-7.004E-02	-7.754E-02	-8.985E-02	-9.961E-02	-1.074E-01	-1.181E-01	-1.256E-01	-1.250E-01	-1.174E-01
179	-1.869E-03	-2.069E-03	-2.333E-03	-2.726E-03	-3.087E-03	-3.755E-03	-4.384E-03	-4.991E-03	-6.166E-03	-7.878E-03	-1.067E-02	-1.341E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	8.306E-07	6.464E-07	5.218E-07	3.828E-07	2.724E-07	1.846E-07	1.396E-07	9.385E-08	7.068E-08	5.669E-08	4.061E-08	2.844E-08
2	2.596E-06	3.095E-06	1.713E-06	1.256E-06	8.972E-07	6.079E-07	4.596E-07	3.090E-07	2.327E-07	1.866E-07	1.337E-07	9.379E-08
3	4.771E-06	3.701E-06	3.024E-06	2.215E-06	1.591E-06	1.071E-06	8.098E-07	5.443E-07	4.099E-07	3.288E-07	2.355E-07	1.654E-07
4	6.260E-06	4.577E-06	3.964E-06	2.900E-06	2.004E-06	1.400E-06	1.059E-06	7.115E-07	5.358E-07	4.297E-07	3.078E-07	2.159E-07
6	4.920E-06	3.736E-06	3.014E-06	2.189E-06	1.549E-06	1.048E-06	7.916E-07	5.315E-07	4.002E-07	3.209E-07	2.299E-07	1.614E-07
8	-6.027E-06	-4.891E-06	-4.087E-06	-3.055E-06	-2.204E-06	-1.504E-06	-1.140E-06	-7.674E-07	-5.783E-07	-4.639E-07	-3.524E-07	-2.332E-07
10	-3.037E-05	-2.399E-05	-1.978E-05	-1.462E-05	-1.049E-05	-7.121E-06	-5.389E-06	-3.629E-06	-2.731E-06	-2.190E-06	-1.569E-06	-1.101E-06
15	-1.673E-04	-1.311E-04	-1.077E-04	-7.932E-05	-5.679E-05	-3.853E-05	-2.915E-05	-1.960E-05	-1.476E-05	-1.184E-05	-8.483E-06	-5.951E-06
20	-3.365E-04	-3.125E-04	-2.804E-04	-2.063E-04	-1.474E-04	-1.011E-04	-7.574E-05	-5.093E-05	-3.836E-05	-3.076E-05	-2.204E-05	-1.546E-05
30	-1.439E-03	-1.259E-03	-9.226E-04	-6.783E-04	-4.853E-04	-3.291E-04	-2.489E-04	-1.674E-04	-1.261E-04	-1.011E-04	-7.243E-05	-5.081E-05
45	-6.199E-03	-6.701E-03	-5.615E-03	-4.191E-03	-3.145E-03	-2.497E-03	-1.957E-03	-1.499E-03	-1.279E-03	-1.026E-03	-7.350E-04	-5.156E-04
60	-8.530E-03	-6.701E-03	-5.725E-03	-4.024E-03	-3.089E-03	-2.497E-03	-1.957E-03	-1.499E-03	-1.279E-03	-1.026E-03	-7.350E-04	-5.156E-04
75	-1.454E-02	-1.139E-02	-9.348E-03	-6.878E-03	-5.273E-03	-3.399E-03	-2.526E-03	-1.698E-03	-1.279E-03	-1.026E-03	-7.350E-04	-5.156E-04
90	-2.252E-02	-1.767E-02	-1.453E-02	-1.070E-02	-7.641E-03	-5.198E-03	-3.333E-03	-2.642E-03	-1.992E-03	-1.459E-03	-1.145E-03	-8.030E-04
120	-3.755E-02	-3.758E-02	-3.107E-02	-2.301E-02	-1.653E-02	-1.124E-02	-8.507E-03	-5.742E-03	-4.312E-03	-3.549E-03	-2.678E-03	-1.739E-03
150	-9.845E-02	-8.248E-02	-7.023E-02	-5.353E-02	-3.912E-02	-2.666E-02	-2.040E-02	-1.376E-02	-1.038E-02	-8.330E-03	-5.970E-03	-4.189E-03
179	-1.884E-02	-2.419E-02	-2.948E-02	-3.981E-02	-5.448E-02	-7.670E-02	-9.511E-02	-1.202E-01	-1.320E-01	-1.344E-01	-1.269E-01	-1.070E-01

	1.0E-03	1.5E-03	2.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02	
DFG												
1	-2.756E-04	-4.279E-08	1.302E-07	1.435E-07	3.439E-07	3.167E-07	7.031E-07	8.029E-07	1.295E-06	1.375E-06	2.251E-06	2.859E-06
2	4.845E-03	3.773E-07	1.463E-07	8.186E-07	6.749E-07	1.142E-06	2.689E-06	3.090E-06	3.569E-06	6.058E-06	9.656E-06	1.275E-05
3	5.496E-07	-5.094E-07	1.847E-06	1.863E-07	1.734E-06	4.656E-06	5.744E-06	4.860E-06	9.348E-06	1.539E-05	2.522E-05	3.085E-05
4	2.160E-05	9.501E-07	3.226E-06	1.018E-07	6.827E-06	9.660E-06	6.911E-06	6.645E-06	1.885E-05	3.211E-05	4.922E-05	5.742E-05
6	-4.749E-04	8.670E-06	-4.660E-06	1.318E-05	2.050E-05	1.218E-05	2.013E-06	1.841E-05	6.153E-05	9.234E-05	1.220E-04	1.309E-04
8	4.977E-06	-6.528E-06	-3.054E-06	5.794E-05	1.014E-05	-4.033E-06	2.403E-07	5.862E-05	1.434E-04	1.891E-04	2.198E-04	2.197E-04
10	7.986E-05	-2.031E-05	3.212E-05	-4.423E-05	-1.210E-05	-2.989E-05	2.367E-05	1.422E-04	2.652E-04	3.148E-04	3.281E-04	3.061E-04
15	-0.621E-05	1.183E-04	1.130E-04	-1.051E-04	-1.073E-04	2.314E-05	3.031E-04	5.556E-04	6.773E-04	6.584E-04	5.286E-04	3.932E-04
20	1.157E-04	1.088E-04	-1.584E-04	-2.363E-04	1.147E-04	4.714E-04	9.199E-04	1.129E-03	1.038E-03	8.245E-04	4.166E-04	9.874E-05
30	6.398E-05	-8.425E-04	-4.819E-04	1.066E-03	1.731E-03	2.276E-03	2.736E-03	1.630E-03	5.570E-04	-2.988E-04	-1.500E-03	-2.301E-03
45	-1.048E-03	2.744E-03	4.740E-03	4.557E-03	3.617E-03	2.395E-03	1.084E-04	-2.509E-03	-5.391E-03	-7.284E-03	-9.691E-03	-1.121E-02
60	6.123E-03	6.910E-03	5.228E-03	4.809E-04	-2.595E-03	-5.409E-03	-9.488E-03	-1.346E-02	-1.749E-02	-2.006E-02	-2.333E-02	-2.542E-02
75	6.423E-03	4.616E-04	-4.500E-03	-1.145E-02	-1.002E-02	-1.731E-02	-2.384E-02	-2.818E-02	-3.264E-02	-3.557E-02	-3.945E-02	-4.205E-02
90	-6.885E-03	-1.443E-02	-2.613E-02	-2.665E-02	-3.078E-02	-3.375E-02	-3.796E-02	-4.217E-02	-4.674E-02	-4.992E-02	-5.437E-02	-5.753E-02
120	-3.145E-02	-3.349E-02	-3.802E-02	-4.179E-02	-4.657E-02	-5.072E-02	-5.539E-02	-5.854E-02	-6.203E-02	-6.736E-02	-7.152E-02	-7.575E-02
150	-2.268E-02	-2.464E-02	-2.612E-02	-2.846E-02	-3.073E-02	-3.164E-02	-3.402E-02	-3.668E-02	-3.999E-02	-4.259E-02	-4.670E-02	-5.007E-02
179	-7.998E-04	-8.772E-04	-9.765E-04	-1.026E-03	-1.094E-03	-1.149E-03	-1.234E-03	-1.339E-03	-1.466E-03	-1.566E-03	-1.726E-03	-1.859E-03
	5.0E-02	7.5E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
DFG												
1	3.310E-06	3.872E-06	4.221E-06	4.288E-06	4.151E-06	3.693E-06	3.348E-06	3.073E-06	2.578E-06	2.071E-06	1.557E-06	1.247E-06
2	1.453E-05	1.618E-05	1.658E-05	1.619E-05	1.528E-05	1.338E-05	1.182E-05	1.051E-05	8.730E-06	6.926E-06	5.161E-06	4.117E-06
3	3.389E-05	3.623E-05	3.400E-05	3.362E-05	3.088E-05	2.599E-05	2.264E-05	1.998E-05	1.622E-05	1.270E-05	9.363E-06	7.433E-06
4	6.111E-05	6.258E-05	6.011E-05	5.374E-05	4.761E-05	3.922E-05	3.318E-05	2.880E-05	2.287E-05	1.758E-05	1.278E-05	1.008E-05
6	1.318E-04	1.253E-04	1.115E-04	9.086E-05	7.569E-05	5.573E-05	4.359E-05	3.588E-05	2.586E-05	1.831E-05	1.240E-05	9.431E-06
8	2.103E-04	1.846E-04	1.493E-04	1.063E-04	7.174E-05	4.380E-05	2.554E-05	1.487E-05	4.029E-06	-1.996E-06	-4.442E-06	-6.625E-06
10	2.764E-04	2.205E-04	1.540E-04	8.105E-05	3.575E-05	-1.307E-05	-3.848E-05	-4.685E-05	-5.405E-05	-5.259E-05	-4.473E-05	-3.771E-05
15	2.767E-04	9.650E-05	-8.408E-05	-2.572E-04	-3.509E-04	-4.296E-04	-4.483E-04	-4.435E-04	-4.106E-04	-3.541E-04	-2.801E-04	-2.294E-04
20	-1.493E-04	-5.044E-04	-8.347E-04	-1.126E-03	-1.263E-03	-1.366E-03	-1.327E-03	-1.273E-03	-1.142E-03	-9.639E-04	-7.518E-04	-6.121E-04
30	-2.876E-03	-3.649E-03	-4.315E-03	-4.831E-03	-5.010E-03	-4.972E-03	-4.742E-03	-4.464E-03	-3.925E-03	-3.269E-03	-2.526E-03	-2.047E-03
45	-1.227E-02	-1.365E-02	-1.479E-02	-1.554E-02	-1.565E-02	-1.511E-02	-1.473E-02	-1.331E-02	-1.162E-02	-9.639E-03	-7.429E-03	-6.019E-03
60	-2.689E-02	-2.885E-02	-3.047E-02	-3.150E-02	-3.153E-02	-3.035E-02	-2.862E-02	-2.680E-02	-2.347E-02	-1.952E-02	-1.509E-02	-1.224E-02
75	-4.396E-02	-4.661E-02	-4.845E-02	-5.063E-02	-5.089E-02	-4.946E-02	-4.702E-02	-4.433E-02	-3.919E-02	-3.288E-02	-2.559E-02	-2.083E-02
90	-5.996E-02	-6.354E-02	-6.703E-02	-7.008E-02	-7.127E-02	-7.058E-02	-6.813E-02	-6.499E-02	-5.842E-02	-4.975E-02	-3.920E-02	-3.209E-02
120	-7.498E-02	-8.065E-02	-8.710E-02	-9.494E-02	-1.002E-01	-1.061E-01	-1.081E-01	-1.077E-01	-1.034E-01	-9.378E-02	-7.812E-02	-6.580E-02
150	-5.301E-02	-5.813E-02	-6.467E-02	-7.384E-02	-8.164E-02	-9.448E-02	-1.046E-01	-1.127E-01	-1.238E-01	-1.314E-01	-1.305E-01	-1.222E-01
179	-1.977E-01	-2.186E-01	-2.464E-01	-2.876E-01	-3.254E-01	-3.995E-01	-4.616E-01	-5.253E-01	-6.488E-01	-8.286E-01	-1.122E-01	-1.410E-02
	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
DEG												
1	8.925E-07	6.943E-07	5.683E-07	4.170E-07	2.779E-07	2.019E-07	1.527E-07	1.026E-07	7.730E-08	6.200E-08	4.441E-08	3.110E-08
2	2.934E-06	2.280E-06	1.865E-06	1.367E-06	9.147E-07	6.617E-07	5.004E-07	3.364E-07	2.533E-07	1.455E-07	1.021E-07	7.021E-07
3	5.275E-06	4.093E-06	3.745E-06	2.450E-06	1.760E-06	1.185E-06	8.960E-07	6.022E-07	4.536E-07	3.638E-07	2.606E-07	1.822E-07
4	7.108E-06	5.531E-06	4.490E-06	3.286E-06	2.364E-06	1.587E-06	1.200E-06	8.064E-07	6.073E-07	4.871E-07	3.489E-07	2.448E-07
6	6.438E-06	4.914E-06	3.982E-06	2.894E-06	2.057E-06	1.319E-06	1.050E-06	7.050E-07	5.308E-07	4.256E-07	3.049E-07	2.139E-07
8	-3.965E-06	-3.295E-06	-2.784E-06	-2.102E-06	-1.526E-06	-1.043E-06	-7.915E-07	-5.333E-07	-4.070E-07	-3.225E-07	-2.311E-07	-1.622E-07
10	-2.413E-05	-2.226E-05	-1.830E-05	-1.359E-05	-9.152E-06	-6.625E-06	-5.014E-06	-3.373E-06	-2.541E-06	-2.038E-06	-1.460E-06	-1.024E-06
15	-1.672E-04	-1.311E-04	-1.070E-04	-7.935E-05	-5.681E-05	-3.854E-05	-2.916E-05	-1.961E-05	-1.477E-05	-1.185E-05	-8.687E-06	-5.954E-06
20	-4.439E-04	-3.474E-04	-2.852E-04	-2.098E-04	-1.302E-04	-1.018E-04	-7.704E-05	-5.180E-05	-3.902E-05	-3.129E-05	-2.242E-05	-1.573E-05
30	-1.481E-03	-1.158E-03	-9.496E-04	-6.981E-04	-4.985E-04	-3.387E-04	-2.562E-04	-1.722E-04	-1.297E-04	-1.041E-04	-7.454E-05	-5.229E-05
45	-4.347E-03	-3.397E-03	-2.786E-03	-2.048E-03	-1.465E-03	-9.935E-04	-7.514E-04	-5.052E-04	-3.805E-04	-3.052E-04	-2.186E-04	-1.534E-04
60	-8.851E-03	-6.920E-03	-5.677E-03	-4.175E-03	-2.987E-03	-2.025E-03	-1.532E-03	-1.030E-03	-7.758E-04	-6.223E-04	-4.588E-04	-3.127E-04
75	-1.511E-02	-1.183E-02	-9.708E-03	-7.142E-03	-5.112E-03	-3.467E-03	-2.623E-03	-1.764E-03	-1.328E-03	-1.065E-03	-7.632E-04	-5.354E-04
90	-2.346E-02	-1.836E-02	-1.509E-02	-1.111E-02	-7.759E-03	-5.400E-03	-4.086E-03	-2.747E-03	-2.069E-03	-1.660E-03	-1.189E-03	-8.342E-04
120	-4.924E-02	-3.907E-02	-3.229E-02	-2.392E-02	-1.718E-02	-1.168E-02	-8.841E-03	-5.948E-03	-4.481E-03	-3.594E-03	-2.575E-03	-1.807E-03
150	-1.025E-01	-8.584E-02	-7.305E-02	-5.566E-02	-4.067E-02	-2.791E-02	-2.121E-02	-1.430E-02	-1.079E-02	-8.656E-03	-6.204E-03	-4.353E-03
179	-1.986E-02	-2.543E-02	-3.095E-02	-4.184E-02	-5.176E-02	-8.056E-02	-9.983E-02	-1.260E-01	-1.382E-01	-1.408E-01	-1.324E-01	-1.115E-01

7N	(30)	SHEPHERD FUNCTION. DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENRGY (MeV)	
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
DEG													
1	-4.435E-04	-4.230E-08	8.027E-08	4.532E-08	4.417E-07	3.203E-07	6.722E-07	1.078E-06	1.740E-06	1.575E-06	2.083E-06	2.870E-06	
2	2.949E-07	5.579E-07	-6.623E-07	1.105E-06	4.433E-07	1.168E-06	2.583E-06	3.288E-06	3.475E-06	5.650E-06	9.464E-06	1.270E-05	
3	-3.411E-07	2.230E-07	1.233E-06	9.051E-07	1.133E-06	4.150E-06	6.042E-06	5.137E-06	8.321E-06	1.453E-05	2.517E-05	3.142E-05	
4	2.501E-06	-4.220E-07	4.135E-06	-6.155E-07	5.453E-06	1.019E-05	8.346E-06	6.313E-06	1.700E-05	3.058E-05	4.950E-05	5.907E-05	
6	-4.233E-06	1.029E-05	-2.580E-06	9.057E-06	2.241E-05	1.675E-05	2.687E-06	1.386E-05	5.677E-05	9.070E-05	1.257E-04	1.378E-04	
8	9.245E-07	1.542E-06	-1.151E-05	3.847E-05	2.754E-05	1.948E-05	-6.050E-06	4.700E-05	1.381E-04	1.912E-04	2.314E-04	2.358E-04	
10	3.355E-05	-2.908E-05	1.612E-05	5.833E-05	7.474E-07	-3.073E-05	5.534E-06	1.252E-04	2.639E-04	3.261E-04	3.522E-04	3.344E-04	
15	-6.152E-05	8.714E-05	1.485E-04	-8.179E-05	-1.304E-04	-2.788E-05	2.586E-04	5.495E-04	7.154E-04	7.167E-04	5.985E-04	4.623E-04	
20	2.274E-05	2.656E-04	-8.243E-05	-2.983E-04	8.681E-06	3.817E-04	9.002E-04	1.188E-03	1.152E-03	9.530E-04	5.335E-04	2.038E-04	
30	3.119E-04	-8.605E-04	-6.307E-04	8.578E-04	1.088E-03	2.355E-03	2.460E-03	1.919E-03	8.305E-04	-6.874E-05	-1.350E-03	-2.208E-03	
45	-1.573E-03	1.788E-03	3.961E-03	4.970E-03	4.218E-03	3.036E-03	6.872E-04	-2.091E-03	-5.194E-03	-7.240E-03	-9.841E-03	-1.147E-02	
60	5.956E-03	7.584E-03	6.211E-03	1.978E-03	-1.184E-03	-4.800E-03	-9.215E-03	-1.353E-02	-1.791E-02	-2.070E-02	-2.421E-02	-2.643E-02	
75	7.738E-03	1.780E-03	3.460E-03	-1.097E-02	-1.095E-02	-1.954E-02	-2.649E-02	-2.921E-02	-3.403E-02	-3.717E-02	-4.130E-02	-4.404E-02	
90	-5.794E-03	-1.453E-02	-2.022E-02	-2.738E-02	-3.189E-02	-3.513E-02	-3.969E-02	-4.421E-02	-4.911E-02	-5.248E-02	-5.718E-02	-6.047E-02	
120	-3.295E-02	-3.717E-02	-4.004E-02	-4.406E-02	-4.807E-02	-5.292E-02	-5.791E-02	-6.296E-02	-6.800E-02	-7.308E-02	-7.820E-02	-8.334E-02	
150	-2.394E-02	-2.759E-02	-2.759E-02	-3.003E-02	-3.194E-02	-3.343E-02	-3.529E-02	-3.872E-02	-4.223E-02	-4.697E-02	-5.280E-02	-5.868E-02	
179	-8.423E-04	-9.240E-04	-9.962E-04	-1.081E-03	-1.152E-03	-1.211E-03	-1.305E-03	-1.413E-03	-1.547E-03	-1.653E-03	-1.822E-03	-1.963E-03	
DEG		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	3.355E-06	3.963E-06	4.299E-06	4.505E-06	4.587E-06	3.944E-06	3.556E-06	3.233E-06	2.752E-06	2.213E-06	1.665E-06	1.334E-06	
2	1.445E-05	1.683E-05	1.743E-05	1.723E-05	1.621E-05	1.436E-05	1.272E-05	1.140E-05	9.428E-06	7.491E-06	5.587E-06	4.459E-06	
3	3.526E-05	3.805E-05	3.835E-05	3.608E-05	3.304E-05	2.843E-05	2.451E-05	2.168E-05	1.774E-05	1.392E-05	1.028E-05	8.167E-06	
4	6.385E-05	6.638E-05	6.451E-05	5.825E-05	5.192E-05	4.309E-05	3.663E-05	3.190E-05	2.544E-05	1.962E-05	1.430E-05	1.129E-05	
6	1.404E-04	1.553E-04	1.219E-04	1.010E-04	8.508E-05	6.367E-05	5.048E-05	4.167E-05	3.082E-05	2.220E-05	1.527E-05	1.171E-05	
8	2.278E-04	2.039E-04	1.676E-04	1.231E-04	9.564E-05	5.600E-05	3.588E-05	2.386E-05	1.119E-05	3.530E-06	-4.110E-07	-1.441E-06	
10	3.067E-04	2.505E-04	1.813E-04	1.041E-04	5.589E-05	2.607E-06	-2.294E-05	-3.587E-05	-4.553E-05	-4.616E-05	-4.012E-05	-3.410E-05	
15	3.419E-04	1.529E-04	-3.883E-05	-2.243E-04	-3.244E-04	-4.136E-04	-4.732E-04	-4.353E-04	-4.056E-04	-3.512E-04	-2.785E-04	-2.284E-04	
20	-5.862E-05	-4.367E-04	-7.005E-04	-1.104E-03	-1.254E-03	-1.350E-03	-1.330E-03	-1.284E-03	-1.154E-03	-9.763E-04	-7.622E-04	-6.208E-04	
30	-2.826E-03	-3.655E-03	-4.170E-03	-4.925E-03	-5.122E-03	-5.095E-03	-4.865E-03	-4.542E-03	-4.030E-03	-3.358E-03	-2.545E-03	-2.105E-03	
45	-1.261E-02	-1.409E-02	-1.529E-02	-1.609E-02	-1.629E-02	-1.564E-02	-1.473E-02	-1.377E-02	-1.202E-02	-9.969E-03	-7.682E-03	-6.233E-03	
60	-2.803E-02	-3.006E-02	-3.175E-02	-3.280E-02	-3.328E-02	-3.155E-02	-2.972E-02	-2.782E-02	-2.435E-02	-2.074E-02	-1.564E-02	-1.268E-02	
75	-4.604E-02	-4.879E-02	-5.119E-02	-5.288E-02	-5.380E-02	-5.153E-02	-4.894E-02	-4.611E-02	-4.072E-02	-3.414E-02	-2.656E-02	-2.161E-02	
90	-6.301E-02	-6.671E-02	-7.021E-02	-7.336E-02	-7.445E-02	-7.366E-02	-7.101E-02	-6.769E-02	-6.078E-02	-5.171E-02	-4.071E-02	-3.332E-02	
120	-7.904E-02	-8.493E-02	-9.169E-02	-9.968E-02	-1.051E-01	-1.110E-01	-1.130E-01	-1.125E-01	-1.079E-01	-9.764E-02	-8.123E-02	-6.857E-02	
150	-5.594E-02	-6.130E-02	-6.814E-02	-7.771E-02	-8.587E-02	-9.921E-02	-1.098E-01	-1.181E-01	-1.296E-01	-1.374E-01	-1.361E-01	-1.274E-01	
179	-2.087E-03	-2.307E-03	-2.595E-03	-3.030E-03	-3.427E-03	-4.160E-03	-4.853E-03	-5.521E-03	-6.817E-03	-8.704E-03	-1.178E-02	-1.481E-02	
DCG		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	9.547E-07	7.431E-07	6.083E-07	4.463E-07	3.190E-07	2.161E-07	1.635E-07	1.099E-07	8.276E-08	6.637E-08	4.755E-08	3.336E-08	
2	3.179E-06	2.471E-06	2.021E-06	1.482E-06	1.059E-06	7.174E-07	5.247E-07	3.646E-07	2.746E-07	2.203E-07	1.578E-07	1.107E-07	
3	5.800E-06	4.501E-06	3.679E-06	2.696E-06	1.795E-06	1.304E-06	9.842E-07	6.626E-07	4.990E-07	4.002E-07	2.867E-07	2.011E-07	
4	7.977E-06	6.177E-06	5.043E-06	3.691E-06	2.634E-06	1.783E-06	1.348E-06	9.062E-07	6.824E-07	5.473E-07	3.921E-07	2.750E-07	
6	8.060E-06	6.172E-06	5.010E-06	3.647E-06	2.595E-06	1.754E-06	1.325E-06	8.902E-07	6.703E-07	5.375E-07	3.850E-07	2.701E-07	
8	-1.715E-06	-1.552E-06	-1.160E-06	-1.060E-06	-7.825E-07	-5.399E-07	-4.109E-07	-2.775E-07	-2.094E-07	-1.680E-07	-1.205E-07	-8.454E-08	
10	-2.560E-05	-2.031E-05	-1.678E-05	-1.242E-05	-8.722E-06	-6.063E-06	-4.590E-06	-3.088E-06	-2.326E-06	-1.866E-06	-1.337E-06	-9.378E-07	
15	-1.666E-04	-1.307E-04	-1.074E-04	-7.910E-05	-5.064E-05	-3.843E-05	-2.907E-05	-1.955E-05	-1.473E-05	-1.181E-05	-8.462E-06	-5.936E-06	
20	-4.504E-04	-3.526E-04	-2.894E-04	-2.129E-04	-1.524E-04	-1.034E-04	-7.819E-05	-5.258E-05	-3.960E-05	-3.176E-05	-2.275E-05	-1.598E-05	
30	-1.521E-03	-1.169E-03	-9.757E-04	-7.174E-04	-5.112E-04	-3.480E-04	-2.632E-04	-1.770E-04	-1.333E-04	-1.069E-04	-7.659E-05	-5.373E-05	
45	-4.494E-03	-3.512E-03	-2.880E-03	-2.117E-03	-1.515E-03	-1.027E-03	-7.768E-04	-5.223E-04	-3.934E-04	-3.155E-04	-2.260E-04	-1.586E-04	
60	-9.171E-03	-7.170E-03	-5.882E-03	-4.325E-03	-3.094E-03	-2.098E-03	-1.587E-03	-1.067E-03	-8.038E-04	-6.447E-04	-4.619E-04	-3.240E-04	
75	-1.567E-02	-1.227E-02	-1.007E-02	-7.408E-03	-5.301E-03	-3.596E-03	-2.720E-03	-1.829E-03	-1.378E-03	-1.105E-03	-7.915E-04	-5.553E-04	
90	-2.429E-02	-1.905E-02	-1.560E-02	-1.153E-02	-8.258E-03	-5.603E-03	-4.239E-03	-2.851E-03	-2.147E-03	-1.722E-03	-1.234E-03	-8.655E-04	
120	-5.114E-02	-4.056E-02	-3.153E-02	-2.482E-02	-1.787E-02	-1.212E-02	-9.175E-03	-6.173E-03	-4.651E-03	-3.730E-03	-2.673E-03	-1.875E-03	
150	-1.067E-01	-8.922E-02	-7.589E-02	-5.780E-02	-4.222E-02	-2.877E-02	-2.201E-02	-1.485E-02	-1.120E-02	-8.984E-03	-6.439E-03	-4.518E-03	
179	-2.079E-02	-2.670E-02	-3.253E-02	-4.392E-02	-6.010E-02	-8.450E-02	-1.046E-01	-1.319E-01	-1.444E-01	-1.470E-01	-1.379E-01	-1.160E-01	

GA (31)	SHERMAN FUNCTION: DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)			
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02		
1	-3.017E-08	8.297E-08	4.372E-08	1.056E-07	2.056E-07	2.552E-07	3.891E-07	1.077E-06	1.389E-06	1.365E-06	2.167E-06	2.802E-06		
2	3.709E-07	4.510E-07	1.330E-07	9.655E-07	6.136E-07	9.746E-07	2.632E-06	3.113E-06	3.447E-06	5.074E-06	9.221E-06	1.260E-05		
3	-4.639E-07	4.935E-07	7.291E-07	1.554E-06	6.318E-07	3.251E-06	3.338E-06	5.689E-06	7.741E-06	1.362E-05	2.467E-05	3.179E-05		
4	1.585E-06	-1.399E-06	4.100E-06	-7.799E-07	3.149E-06	9.960E-06	9.889E-06	6.422E-06	1.503E-05	2.879E-05	4.939E-05	6.050E-05		
6	-8.738E-07	9.612E-06	1.241E-06	4.242E-06	2.249E-05	4.810E-06	5.459E-06	5.135E-05	8.815E-05	1.286E-04	1.442E-04			
8	-8.031E-06	1.112E-05	-1.593E-05	3.558E-05	3.645E-05	1.006E-05	-9.719E-06	3.535E-05	1.306E-04	1.915E-04	2.420E-04	2.513E-04		
10	2.768E-05	-2.388E-05	-1.834E-06	6.881E-05	1.694E-05	-2.671E-05	-1.075E-05	1.054E-04	2.590E-04	3.346E-04	3.751E-04	3.631E-04		
15	-5.449E-05	4.300E-05	1.701E-04	-4.639E-05	-1.474E-04	-7.570E-05	2.075E-04	5.342E-04	7.470E-04	7.726E-04	6.698E-04	5.345E-04		
20	-7.652E-05	3.201E-04	1.120E-05	-3.403E-04	-9.134E-05	2.794E-04	8.624E-04	1.235E-03	1.262E-03	1.082E-03	6.657E-04	3.172E-04		
30	5.498E-04	-8.096E-04	-8.718E-04	6.139E-04	1.782E-03	2.396E-03	2.668E-03	2.212E-03	1.122E-03	1.834E-04	-1.176E-03	-2.095E-03		
45	-2.045E-03	1.244E-03	3.770E-03	5.331E-03	4.010E-03	3.698E-03	1.312E-03	-1.617E-03	-4.945E-03	-7.152E-03	-9.926E-03	-1.171E-02		
60	5.609E-03	8.162E-03	7.180E-03	3.047E-03	-8.072E-04	-4.094E-03	-8.853E-03	-1.354E-02	-1.878E-02	-2.129E-02	-2.507E-02	-2.744E-02		
75	9.039E-03	3.194E-03	-2.297E-03	-1.036E-02	-1.377E-02	-1.968E-02	-2.508E-02	-3.019E-02	-3.540E-02	-4.316E-02	-4.604E-02	-6.347E-02		
90	-4.547E-03	-1.398E-02	-2.820E-02	-2.807E-02	-3.295E-02	-3.647E-02	-4.140E-02	-4.627E-02	-5.149E-02	-5.507E-02	-6.002E-02	-6.347E-02		
120	-3.445E-02	-3.900E-02	-2.208E-02	-4.637E-02	-4.946E-02	-5.191E-02	-5.574E-02	-5.999E-02	-6.513E-02	-6.900E-02	-7.488E-02	-7.948E-02		
150	-2.523E-02	-2.739E-02	-2.906E-02	-3.162E-02	-3.359E-02	-3.521E-02	-3.781E-02	-4.079E-02	-4.451E-02	-4.741E-02	-5.198E-02	-5.571E-02		
179	-8.855E-04	-9.714E-04	-1.037E-03	-1.136E-03	-1.212E-03	-1.274E-03	-1.374E-03	-1.488E-03	-1.630E-03	-1.742E-03	-1.921E-03	-2.066E-03		
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00		
1	3.387E-06	3.971E-06	4.547E-06	4.715E-06	4.012E-06	4.173E-06	3.757E-06	3.433E-06	2.890E-06	2.357E-06	1.715E-06	1.423E-06		
2	1.501E-05	1.734E-05	1.851E-05	1.826E-05	1.729E-05	1.535E-05	1.364E-05	1.224E-05	1.014E-05	8.071E-06	6.026E-06	4.812E-06		
3	3.547E-05	3.997E-05	4.062E-05	3.850E-05	3.592E-05	3.045E-05	2.650E-05	2.354E-05	1.921E-05	1.510E-05	1.117E-05	8.878E-06		
4	6.632E-05	7.006E-05	6.890E-05	6.285E-05	5.634E-05	4.677E-05	4.021E-05	3.512E-05	2.812E-05	2.176E-05	1.590E-05	1.251E-05		
6	1.487E-04	1.455E-04	1.320E-04	1.112E-04	9.471E-05	7.200E-05	5.774E-05	4.811E-05	3.607E-05	2.633E-05	1.832E-05	1.414E-05		
8	2.458E-04	2.236E-04	1.871E-04	1.407E-04	1.084E-04	6.900E-05	4.694E-05	3.350E-05	1.890E-05	9.498E-06	3.993E-06	2.010E-06		
10	3.382E-04	2.816E-04	2.102E-04	1.289E-04	7.734E-05	1.960E-05	8.842E-06	-2.383E-05	-3.613E-05	-3.904E-05	-3.499E-05	-3.006E-05		
15	4.110E-04	2.135E-04	1.063E-04	-1.876E-04	-2.963E-04	-3.947E-04	-4.236E-04	-4.249E-04	-3.987E-04	-3.468E-04	-2.799E-04	-2.265E-04		
20	4.071E-05	-3.607E-04	-7.380E-04	-1.076E-03	-1.239E-03	-1.348E-03	-1.341E-03	-1.292E-03	-1.165E-03	-9.865E-04	-7.711E-04	-6.283E-04		
30	-2.756E-03	-3.645E-03	-4.411E-03	-5.009E-03	-5.224E-03	-5.212E-03	-4.982E-03	-4.695E-03	-4.131E-03	-3.443E-03	-2.662E-03	-2.159E-03		
45	-1.293E-02	-1.450E-02	-1.578E-02	-1.662E-02	-1.675E-02	-1.617E-02	-1.522E-02	-1.423E-02	-1.242E-02	-1.030E-02	-7.933E-03	-6.425E-03		
60	-2.913E-02	-3.127E-02	-3.410E-02	-3.410E-02	-3.275E-02	-3.083E-02	-2.885E-02	-2.573E-02	-2.097E-02	-1.619E-02	-1.313E-02			
75	-4.814E-02	-5.100E-02	-5.340E-02	-5.516E-02	-5.332E-02	-5.362E-02	-5.388E-02	-4.790E-02	-4.227E-02	-3.541E-02	-2.733E-02	-2.239E-02		
90	-6.610E-02	-6.992E-02	-7.357E-02	-7.668E-02	-7.773E-02	-7.677E-02	-7.393E-02	-6.641E-02	-6.315E-02	-5.368E-02	-4.223E-02	-3.455E-02		
120	-8.319E-02	-8.930E-02	-9.429E-02	-1.045E-01	-1.100E-01	-1.161E-01	-1.179E-01	-1.173E-01	-1.123E-01	-1.015E-01	-8.437E-02	-7.097E-02		
150	-5.894E-02	-6.455E-02	-7.169E-02	-8.164E-02	-9.017E-02	-1.040E-01	-1.150E-01	-1.236E-01	-1.355E-01	-1.474E-01	-1.618E-01	-1.326E-01		
179	-2.199E-03	-2.430E-03	-2.735E-03	-3.187E-03	-3.601E-03	-4.370E-03	-5.096E-03	-5.795E-03	-7.154E-03	-9.131E-03	-1.253E-02	-1.553E-02		
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02		
1	1.018E-06	7.929E-07	6.491E-07	4.763E-07	3.404E-07	2.307E-07	1.744E-07	1.173E-07	8.832E-08	7.083E-08	5.074E-08	3.760E-08		
2	3.432E-06	2.668E-06	2.183E-06	1.601E-06	1.147E-06	7.716E-07	5.858E-07	3.938E-07	2.966E-07	2.378E-07	1.704E-07	1.174E-07		
3	6.309E-06	4.897E-06	4.003E-06	2.937E-06	2.095E-06	1.419E-06	1.073E-06	7.211E-07	5.431E-07	4.355E-07	3.120E-07	2.189E-07		
4	8.887E-06	6.884E-06	5.622E-06	4.115E-06	2.937E-06	1.989E-06	1.504E-06	1.011E-06	7.611E-07	6.104E-07	4.372E-07	3.067E-07		
6	9.784E-06	7.510E-06	6.104E-06	4.449E-06	3.167E-06	2.142E-06	1.618E-06	1.087E-06	8.187E-07	6.566E-07	4.703E-07	3.299E-07		
8	7.263E-07	3.340E-07	1.839E-07	1.080E-08	2.444E-08	6.620E-09	2.267E-09	1.757E-10	-2.299E-10	-3.203E-10	-3.149E-10	-2.529E-10		
10	-2.277E-05	-1.813E-05	-1.500E-05	-1.112E-05	-7.942E-06	-5.434E-06	-4.114E-06	-2.768E-06	-2.086E-06	-1.673E-06	-1.199E-06	-8.409E-07		
15	-1.654E-04	-1.298E-04	-1.067E-04	-7.857E-05	-5.027E-05	-3.818E-05	-2.889E-05	-1.943E-05	-1.463E-05	-1.174E-05	-8.407E-06	-5.898E-06		
20	-4.560E-04	-3.570E-04	-2.931E-04	-2.157E-04	-1.574E-04	-1.047E-04	-7.920E-05	-5.325E-05	-4.011E-05	-3.217E-05	-2.305E-05	-1.617E-05		
30	-1.561E-03	-1.220E-03	-1.001E-03	-7.360E-04	-5.265E-04	-3.570E-04	-2.701E-04	-1.816E-04	-1.368E-04	-1.097E-04	-7.858E-05	-5.513E-05		
45	-4.640E-03	-3.626E-03	-2.914E-03	-2.186E-03	-1.564E-03	-1.060E-03	-0.620E-03	-0.392E-03	-0.257E-03	-0.161E-03	-0.104E-03	-6.671E-04		
60	-9.492E-03	-7.420E-03	-6.081E-03	-4.474E-03	-3.202E-03	-2.171E-03	-1.442E-03	-1.104E-03	-8.318E-04	-6.671E-04	-4.779E-04	-3.353E-04		
75	-1.623E-02	-1.271E-02	-1.043E-02	-7.673E-03	-5.492E-03	-3.725E-03	-2.817E-03	-1.894E-03	-1.427E-03	-1.144E-03	-8.199E-04	-5.752E-04		
90	-2.518E-02	-1.975E-02	-1.623E-02	-1.195E-02	-8.350E-03	-5.807E-03	-4.393E-03	-2.954E-03	-2.225E-03	-1.785E-03	-1.219E-03	-8.970E-04		
120	-5.305E-02	-4.207E-02	-3.470E-02	-2.574E-02	-1.849E-02	-1.256E-02	-9.512E-03	-6.399E-03	-4.821E-03	-3.867E-03	-2.770E-03	-1.944E-03		
150	-1.108E-01	-7.875E-02	-5.942E-02	-4.995E-02	-4.379E-02	-3.004E-02	-2.242E-02	-1.539E-02	-1.161E-02	-9.314E-03	-6.675E-03	-4.684E-03		
179	-2.181E-02	-2.860E-02	-3.411E-02	-4.605E-02	-6.309E-02	-8.952E-02	-1.095E-01	-1.379E-01	-1.507E-01	-1.533E-01	-1.405E-01	-1.205E-01		

GE (32) SHEKMAN FUNCTION: DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM

ENERGY (MEV)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	8.378E-04	5.614E-04	1.140E-03	2.753E-04	3.680E-07	2.710E-07	6.308E-07	1.062E-06	1.438E-06	1.467E-06	2.222E-06	2.779E-06
2	4.102E-07	1.266E-07	2.210E-07	8.597E-07	8.002E-07	8.615E-07	2.368E-06	3.605E-06	3.487E-06	5.239E-06	9.256E-06	1.281E-05
3	3.627E-07	1.068E-06	8.750E-06	2.000E-06	3.553E-06	2.553E-06	6.533E-06	6.303E-06	7.137E-06	1.312E-05	2.453E-05	3.190E-05
4	1.020E-07	1.370E-06	3.430E-06	1.331E-07	2.077E-06	8.604E-06	1.102E-05	6.744E-06	1.334E-05	2.678E-05	4.883E-05	6.162E-05
6	3.611E-06	6.449E-06	5.917E-06	5.180E-07	2.144E-05	2.655E-05	7.982E-06	6.354E-06	4.578E-05	8.446E-05	1.306E-04	1.498E-04
8	1.359E-05	1.930E-05	1.587E-05	2.914E-05	4.402E-05	1.966E-05	1.125E-05	2.349E-05	1.211E-04	1.894E-04	2.509E-04	2.661E-04
10	1.344E-05	1.125E-05	1.873E-05	3.402E-05	4.307E-05	1.741E-05	1.174E-04	8.411E-05	2.506E-04	3.400E-04	5.967E-04	3.920E-04
15	1.649E-05	8.259E-06	1.770E-04	1.051E-04	1.590E-04	1.590E-04	1.512E-04	8.411E-05	7.732E-04	8.252E-04	7.418E-04	6.093E-04
20	1.650E-05	3.442E-04	1.150E-04	3.854E-04	1.590E-04	1.675E-04	8.063E-04	1.267E-03	1.369E-03	1.213E-03	7.994E-04	4.388E-04
30	7.505E-04	6.841E-04	9.514E-04	3.414E-04	1.630E-03	2.394E-03	2.853E-03	2.505E-03	1.431E-03	4.570E-04	9.807E-04	1.960E-03
45	2.420E-03	6.284E-03	3.680E-03	2.625E-02	5.382E-03	4.372E-03	1.880E-03	1.048E-03	1.644E-03	2.017E-03	2.192E-02	1.192E-02
60	5.081E-03	8.624E-03	8.118E-03	4.164E-02	5.382E-03	4.372E-03	1.880E-03	1.048E-03	1.644E-03	2.017E-03	2.192E-02	1.192E-02
75	1.029E-02	4.691E-03	1.003E-02	9.611E-02	1.346E-02	1.972E-02	2.559E-02	3.113E-02	2.145E-02	2.145E-02	2.145E-02	2.145E-02
90	3.147E-03	1.348E-02	2.004E-02	2.858E-02	3.394E-02	3.777E-02	4.310E-02	4.832E-02	5.390E-02	4.035E-02	4.502E-02	4.805E-02
120	3.594E-02	4.095E-02	4.155E-02	4.872E-02	5.190E-02	5.458E-02	5.862E-02	6.311E-02	6.821E-02	7.259E-02	7.876E-02	8.651E-02
150	2.650E-02	2.881E-02	3.050E-02	3.325E-02	3.539E-02	3.702E-02	3.976E-02	4.291E-02	4.643E-02	4.948E-02	5.470E-02	5.861E-02
179	9.295E-04	1.020E-02	1.089E-02	1.193E-02	1.273E-02	1.339E-02	1.404E-02	1.564E-02	1.715E-02	1.833E-02	2.021E-02	2.178E-02
5.0E-02	7.0E-02	1.0E-02	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00	
DEG	1	3.408E-06	4.102E-06	4.918E-06	4.936E-06	4.401E-06	3.946E-06	3.640E-06	3.048E-06	2.471E-06	1.887E-06	1.513E-06
2	1.503E-05	1.794E-05	1.914E-05	1.914E-05	1.633E-05	1.457E-05	1.457E-05	1.310E-05	1.088E-05	8.612E-06	6.477E-06	5.173E-06
3	3.676E-05	4.194E-05	4.274E-05	4.101E-05	3.820E-05	2.890E-05	2.890E-05	2.546E-05	2.094E-05	1.649E-05	1.222E-05	9.719E-06
4	8.649E-05	7.367E-05	7.213E-05	6.750E-05	5.122E-05	4.391E-05	4.391E-05	3.846E-05	3.090E-05	2.398E-05	1.756E-05	1.390E-05
6	1.566E-04	1.556E-04	1.430E-04	1.220E-04	1.048E-04	8.072E-05	6.536E-05	5.447E-05	4.160E-05	3.069E-05	2.155E-05	1.671E-05
8	2.433E-04	2.433E-04	2.071E-04	1.591E-04	1.054E-04	8.279E-05	6.872E-05	5.380E-05	4.160E-05	3.069E-05	2.155E-05	1.671E-05
10	3.687E-04	3.134E-04	2.409E-04	1.555E-04	1.004E-04	3.793E-05	6.393E-06	1.072E-05	2.717E-05	1.591E-05	8.651E-06	5.730E-06
15	4.835E-04	2.782E-04	6.491E-04	1.471E-04	2.643E-04	3.732E-04	4.074E-04	4.123E-04	3.900E-04	3.410E-04	2.772E-04	2.337E-04
20	1.497E-04	2.782E-04	6.491E-04	1.471E-04	2.643E-04	3.732E-04	4.074E-04	4.123E-04	3.900E-04	3.410E-04	2.772E-04	2.337E-04
30	2.667E-02	3.619E-02	4.440E-02	5.083E-02	5.322E-02	5.093E-02	4.803E-02	4.469E-02	4.299E-02	3.526E-02	2.727E-02	2.212E-02
45	1.322E-02	1.497E-02	1.620E-02	1.715E-02	1.669E-02	1.571E-02	1.469E-02	1.469E-02	1.281E-02	1.062E-02	8.182E-02	6.625E-02
60	3.019E-02	3.247E-02	3.430E-02	3.540E-02	3.357E-02	3.195E-02	2.998E-02	2.998E-02	2.611E-02	2.169E-02	1.674E-02	1.338E-02
75	5.026E-02	5.343E-02	5.570E-02	5.745E-02	5.527E-02	5.282E-02	4.970E-02	4.970E-02	4.382E-02	3.668E-02	2.850E-02	2.319E-02
90	6.925E-02	7.319E-02	7.633E-02	7.893E-02	7.693E-02	7.493E-02	7.293E-02	7.293E-02	6.554E-02	5.566E-02	4.375E-02	3.579E-02
120	8.749E-02	9.366E-02	9.736E-02	1.010E-01	1.010E-01	1.010E-01	1.010E-01	1.010E-01	1.010E-01	1.010E-01	1.010E-01	1.010E-01
150	6.203E-02	6.787E-02	7.132E-02	7.532E-02	7.857E-02	8.151E-02	8.403E-02	8.603E-02	8.753E-02	8.853E-02	8.903E-02	8.953E-02
179	2.313E-03	2.855E-03	2.875E-03	3.348E-03	3.741E-03	4.585E-03	5.344E-03	6.077E-03	7.488E-03	9.569E-03	1.294E-02	1.672E-02
3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02	
DEG	1	1.043E-06	8.444E-07	6.905E-07	5.067E-07	3.021E-07	2.454E-07	1.856E-07	1.248E-07	9.396E-08	5.399E-08	3.787E-08
2	3.991E-06	2.870E-06	2.440E-06	1.722E-06	1.230E-06	8.335E-07	6.303E-07	4.702E-07	3.233E-07	2.559E-07	1.833E-07	1.280E-07
3	6.009E-06	5.364E-06	4.745E-06	3.214E-06	2.290E-06	1.705E-06	1.290E-06	7.902E-07	4.733E-07	3.419E-07	2.398E-07	1.698E-07
4	8.836E-06	7.623E-06	6.220E-06	4.559E-06	3.254E-06	2.203E-06	1.568E-06	1.120E-06	6.763E-07	4.844E-07	3.398E-07	2.398E-07
6	1.611E-05	1.494E-05	1.264E-05	8.929E-06	5.299E-06	3.774E-06	2.533E-06	1.296E-06	7.611E-07	5.607E-07	3.933E-07	2.735E-07
8	3.359E-05	2.890E-05	2.390E-05	1.291E-05	8.957E-06	5.966E-07	4.833E-07	3.000E-07	2.256E-07	1.808E-07	1.294E-07	9.075E-08
10	1.964E-05	1.571E-05	1.103E-05	9.678E-06	6.744E-06	4.737E-06	3.587E-06	2.414E-06	1.819E-06	1.459E-06	1.045E-06	7.334E-07
15	1.635E-05	1.284E-05	1.053E-05	7.776E-06	5.570E-06	3.779E-06	2.859E-06	1.923E-06	1.448E-06	1.162E-06	8.322E-06	5.838E-06
30	4.407E-04	3.607E-04	2.962E-04	2.179E-04	1.596E-04	1.058E-04	8.004E-05	5.382E-05	3.251E-05	2.329E-05	1.633E-05	1.163E-05
45	4.789E-03	3.799E-03	3.060E-03	2.254E-03	1.697E-03	1.093E-03	8.269E-04	5.560E-04	3.559E-04	2.401E-04	1.689E-04	1.168E-04
60	9.412E-03	7.610E-03	6.240E-03	4.626E-03	3.310E-03	2.254E-03	1.697E-03	1.093E-03	8.269E-04	5.560E-04	3.559E-04	2.401E-04
75	1.644E-02	1.315E-02	1.077E-02	7.940E-03	5.642E-03	3.854E-03	2.915E-03	1.960E-03	1.476E-03	1.144E-03	8.483E-04	5.951E-04
90	2.607E-02	2.055E-02	1.680E-02	1.237E-02	8.649E-03	6.011E-03	4.546E-03	3.059E-03	2.303E-03	1.848E-03	1.324E-03	9.283E-04
120	5.497E-02	4.358E-02	3.601E-02	2.664E-02	1.914E-02	1.301E-02	8.563E-03	6.623E-03	4.992E-03	4.004E-03	2.869E-03	2.013E-03
150	1.151E-01	9.664E-02	8.163E-02	6.212E-02	4.514E-02	3.111E-02	2.363E-02	1.594E-02	1.202E-02	9.645E-03	6.912E-03	4.850E-03
179	2.884E-02	2.943E-02	3.174E-02	4.822E-02	6.605E-02	9.262E-02	1.145E-01	1.439E-01	1.571E-01	1.566E-01	1.492E-01	1.250E-01

AS	(33)	SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENRGY (MEV)				
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02			
DEG																
1	6.586E-08	1.889E-08	-4.659E-08	8.762E-08	1.275E-07	4.530E-07	6.292E-07	7.020E-07	1.158E-06	1.680E-06	2.219E-06	2.859E-06				
2	1.838E-07	-1.243E-07	5.925E-07	8.053E-07	1.099E-06	6.706E-07	2.255E-06	3.658E-06	4.019E-06	4.680E-06	5.622E-06	1.222E-05				
3	3.709E-07	1.667E-06	-6.740E-07	2.632E-06	5.346E-07	1.928E-06	6.759E-06	6.859E-06	6.967E-06	1.225E-05	2.386E-05	3.186E-05				
4	-1.297E-06	-5.449E-07	1.837E-06	1.208E-06	5.590E-07	7.405E-06	1.231E-05	7.691E-06	1.193E-05	2.465E-05	4.743E-05	6.228E-05				
6	7.395E-06	1.578E-06	1.024E-05	-4.444E-06	1.851E-05	2.722E-05	1.196E-05	3.928E-05	1.168E-05	7.985E-05	1.315E-04	1.548E-04				
8	-1.313E-05	2.439E-05	-1.155E-05	1.965E-05	4.776E-05	3.025E-05	-9.493E-06	1.288E-05	1.102E-04	1.855E-04	2.584E-04	2.799E-04				
10	-4.998E-06	6.270E-06	-3.182E-05	7.329E-05	5.347E-05	-4.619E-06	2.460E-05	6.168E-05	2.386E-04	3.418E-04	4.164E-04	4.197E-04				
15	4.121E-05	-5.870E-05	1.654E-04	5.080E-05	-1.470E-04	-1.513E-04	9.146E-05	4.753E-04	7.912E-04	8.737E-04	8.141E-04	6.864E-04				
20	-2.274E-04	3.326E-04	2.194E-04	-3.499E-04	-2.911E-04	4.986E-05	7.321E-04	1.284E-03	1.468E-03	1.344E-03	9.390E-04	5.684E-04				
30	8.892E-04	-5.033E-04	-1.098E-03	4.927E-05	1.449E-03	2.347E-03	3.012E-03	2.795E-03	1.754E-03	7.515E-04	-7.620E-04	-1.804E-03				
45	-2.682E-03	-3.760E-05	3.070E-03	5.838E-03	5.973E-03	5.049E-03	2.688E-03	-5.038E-04	-4.286E-03	-6.832E-03	-1.007E-02	-1.209E-02				
60	4.378E-03	8.949E-03	9.000E-03	5.332E-03	1.187E-03	-2.393E-03	-7.848E-03	-1.330E-02	-1.886E-02	-2.235E-02	-2.670E-02	-2.939E-02				
75	1.148E-02	6.256E-03	4.110E-04	-8.728E-03	-1.505E-02	-1.966E-02	-2.602E-02	-3.202E-02	-3.806E-02	-4.193E-02	-4.689E-02	-5.099E-02				
90	-1.596E-03	-1.241E-02	-1.974E-02	-2.904E-02	-3.487E-02	-3.902E-02	-4.477E-02	-5.037E-02	-5.632E-02	-6.034E-02	-6.582E-02	-6.959E-02				
120	-3.741E-02	-4.272E-02	-4.625E-02	-5.110E-02	-5.456E-02	-5.730E-02	-6.155E-02	-6.628E-02	-7.197E-02	-7.625E-02	-8.271E-02	-8.766E-02				
150	-2.789E-02	-3.026E-02	-3.207E-02	-3.491E-02	-3.708E-02	-3.887E-02	-4.174E-02	-4.506E-02	-4.919E-02	-5.241E-02	-5.748E-02	-6.157E-02				
179	-9.742E-04	-1.069E-03	-1.14E-03	-1.251E-03	-1.335E-03	-1.404E-03	-1.514E-03	-1.642E-03	-1.800E-03	-1.925E-03	-2.123E-03	-2.287E-03				
		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00			
DEG																
1	3.425E-06	4.096E-06	4.822E-06	5.111E-06	5.055E-06	4.679E-06	4.213E-06	3.841E-06	3.231E-06	2.603E-06	1.975E-06	1.604E-06				
2	1.518E-05	1.840E-05	2.009E-05	2.000E-05	1.938E-05	1.737E-05	1.551E-05	1.397E-05	1.162E-05	9.272E-06	6.937E-06	5.548E-06				
3	3.729E-05	4.228E-05	4.482E-05	4.341E-05	4.065E-05	3.510E-05	3.081E-05	2.746E-05	2.248E-05	1.774E-05	1.316E-05	1.047E-05				
4	7.024E-05	7.744E-05	7.744E-05	7.219E-05	6.594E-05	5.526E-05	4.772E-05	4.191E-05	3.378E-05	2.629E-05	1.929E-05	1.526E-05				
6	1.640E-04	1.655E-04	1.549E-04	1.332E-04	1.152E-04	8.980E-05	7.334E-05	6.197E-05	4.742E-05	3.528E-05	2.495E-05	1.942E-05				
8	2.812E-04	2.631E-04	2.277E-04	1.783E-04	1.425E-04	9.736E-05	7.122E-05	5.476E-05	3.599E-05	2.277E-05	1.369E-05	9.720E-06				
10	3.999E-04	3.469E-04	2.720E-04	1.831E-04	1.248E-04	5.758E-05	2.284E-05	3.458E-06	-1.468E-05	-2.266E-05	-2.315E-05	-2.076E-05				
15	5.593E-04	3.470E-04	1.222E-04	-1.026E-04	-2.287E-04	-3.474E-04	-7.886E-04	-3.971E-04	-3.794E-04	-3.336E-04	-2.672E-04	-2.200E-04				
20	2.652E-04	-1.832E-04	-6.114E-04	-9.492E-04	-1.192E-03	-1.332E-03	-1.339E-03	-1.298E-03	-1.176E-03	-1.000E-03	-7.837E-04	-6.393E-04				
30	-2.559E-03	-3.576E-03	-4.454E-03	-5.146E-03	-5.406E-03	-5.424E-03	-5.197E-03	-4.905E-03	-4.322E-03	-3.605E-03	-2.789E-03	-2.262E-03				
45	-1.349E-02	-1.528E-02	-1.672E-02	-1.767E-02	-1.787E-02	-1.720E-02	-1.620E-02	-1.514E-02	-1.320E-02	-1.094E-02	-8.428E-03	-6.825E-03				
60	-3.126E-02	-3.366E-02	-3.557E-02	-3.670E-02	-3.665E-02	-3.516E-02	-3.306E-02	-3.090E-02	-2.699E-02	-2.241E-02	-1.730E-02	-1.402E-02				
75	-5.239E-02	-5.548E-02	-5.806E-02	-5.978E-02	-5.984E-02	-5.784E-02	-5.478E-02	-5.151E-02	-4.538E-02	-3.796E-02	-2.948E-02	-2.397E-02				
90	-7.244E-02	-7.651E-02	-8.033E-02	-8.347E-02	-8.447E-02	-8.310E-02	-7.984E-02	-7.592E-02	-6.795E-02	-5.765E-02	-4.529E-02	-3.703E-02				
120	-9.174E-02	-9.832E-02	-1.058E-01	-1.145E-01	-1.203E-01	-1.264E-01	-1.281E-01	-1.272E-01	-1.214E-01	-1.094E-01	-9.071E-02	-7.620E-02				
150	-6.512E-02	-7.125E-02	-7.902E-02	-8.983E-02	-9.899E-02	-1.140E-01	-1.258E-01	-1.350E-01	-1.475E-01	-1.557E-01	-1.534E-01	-1.431E-01				
179	-2.430E-03	-2.684E-03	-3.010E-03	-3.512E-03	-3.765E-03	-4.885E-03	-5.598E-03	-6.365E-03	-7.850E-03	-1.002E-02	-1.355E-02	-1.703E-02				
		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02			
DEG																
1	1.149E-06	8.946E-07	7.325E-07	5.376E-07	3.842E-07	2.604E-07	1.969E-07	1.324E-07	9.969E-08	7.995E-08	5.728E-08	4.018E-08				
2	3.957E-06	3.077E-06	2.518E-06	1.847E-06	1.319E-06	8.938E-07	6.759E-07	4.544E-07	3.422E-07	2.744E-07	1.966E-07	1.379E-07				
3	7.449E-06	5.785E-06	4.730E-06	3.467E-06	2.476E-06	1.677E-06	1.268E-06	8.524E-07	6.419E-07	5.148E-07	3.688E-07	2.587E-07				
4	1.082E-05	8.391E-06	6.855E-06	5.020E-06	3.587E-06	2.427E-06	1.835E-06	1.233E-06	9.287E-07	7.448E-07	5.336E-07	3.743E-07				
6	1.354E-05	1.043E-05	8.487E-06	6.197E-06	4.415E-06	2.987E-06	2.258E-06	1.517E-06	1.142E-06	9.161E-07	6.562E-07	4.603E-07				
8	6.186E-06	4.571E-06	3.641E-06	2.603E-06	1.832E-06	1.231E-06	9.276E-07	6.221E-07	4.682E-07	3.753E-07	2.688E-07	1.880E-07				
10	-1.621E-05	-1.305E-05	-1.080E-05	-8.091E-06	-5.879E-06	-3.771E-06	-2.008E-06	-2.025E-06	-1.526E-06	-1.274E-06	-8.769E-07	-6.152E-07				
15	-1.618E-04	-1.265E-04	-1.040E-04	-7.665E-05	-5.491E-05	-3.726E-05	-2.819E-05	-1.896E-05	-1.428E-05	-1.145E-05	-8.205E-06	-5.756E-06				
20	-4.644E-04	-3.037E-04	-2.987E-04	-2.198E-04	-1.573E-04	-1.067E-04	-8.072E-05	-5.427E-05	-4.088E-05	-3.279E-05	-2.349E-05	-1.648E-05				
30	-1.636E-03	-1.279E-03	-1.047E-03	-7.714E-04	-5.319E-04	-3.742E-04	-2.831E-04	-1.903E-04	-1.433E-04	-1.150E-04	-8.236E-05	-5.778E-05				
45	-4.928E-03	-3.851E-03	-3.158E-03	-2.321E-03	-1.661E-03	-1.126E-03	-8.517E-04	-5.726E-04	-4.313E-04	-3.459E-04	-2.478E-04	-1.738E-04				
60	-1.013E-02	-7.920E-03	-6.497E-03	-4.777E-03	-3.417E-03	-2.317E-03	-1.753E-03	-1.178E-03	-8.876E-04	-7.119E-04	-5.100E-04	-3.578E-04				
75	-1.737E-02	-1.359E-02	-1.116E-02	-8.207E-03	-5.877E-03	-3.983E-03	-3.013E-03	-2.026E-03	-1.576E-03	-1.224E-03	-8.768E-04	-6.151E-04				
90	-2.697E-02	-2.115E-02	-1.730E-02	-1.280E-02	-9.145E-03	-6.216E-03	-4.703E-03	-3.162E-03	-2.382E-03	-1.910E-03	-1.369E-03	-9.602E-04				
120	-5.690E-02	-4.310E-02	-3.720E-02	-2.758E-02	-1.981E-02	-1.346E-02	-1.017E-02	-6.855E-03	-5.163E-03	-4.142E-03	-2.968E-03	-2.082E-03				
150	-1.192E-01	-9.948E-02	-8.452E-02	-6.429E-02	-4.097E-02	-3.219E-02	-2.445E-02	-1.649E-02	-1.243E-02	-9.977E-03	-7.151E-03	-5.018E-03				
179	-2.390E-02	-3.068E-02	-3.730E-02	-5.045E-02	-6.908E-02	-9.681E-02	-1.196E-01	-1.501E-01	-1.636E-01	-1.660E-01	-1.549E-01	-1.296E-01				

SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM

ENERGY (MEV)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-6.499F-04	3.564E-08	9.444E-09	1.239E-07	3.547E-07	2.690E-07	4.374E-07	1.002E-06	1.524E-06	1.415E-06	2.223E-06	2.650E-06
2	-1.134F-07	-7.349E-07	7.423F-07	3.624E-07	1.350E-06	7.223E-07	1.973E-06	3.925E-06	4.159E-06	4.565E-06	8.677E-06	1.200E-05
3	4.941E-07	1.057E-06	-1.961E-07	3.003E-06	4.942E-07	1.355E-06	5.192E-06	7.770E-06	7.006E-06	1.100E-05	2.306E-05	3.160E-05
4	-1.177E-06	1.107E-06	-2.690E-07	3.024E-06	4.940E-07	5.673E-06	1.361E-05	9.111E-06	1.073E-05	2.256E-05	4.663E-05	6.254E-05
6	8.309F-04	-3.229E-06	1.294E-05	-6.953E-06	1.434E-05	2.849E-05	1.681E-05	3.149E-06	3.303E-05	7.450E-05	1.314E-04	1.589E-04
8	-5.457E-04	2.402E-05	3.204E-06	6.800E-06	5.171E-05	4.084E-05	-5.288E-06	6.928E-06	9.793E-05	1.792E-04	2.643E-04	4.292E-04
10	-2.169F-05	2.509E-05	-3.439E-05	5.946E-05	1.054E-04	1.230E-05	4.062E-05	3.916E-05	2.235E-04	3.408E-04	4.340E-04	6.456E-04
15	-2.497E-04	2.840E-04	1.751E-04	-3.113E-04	1.054E-04	-1.753E-04	2.994E-04	4.325E-04	8.011E-04	9.172E-04	8.859E-04	7.653E-04
20	5.463E-04	-2.017E-04	-1.143F-03	-2.530E-04	1.217E-03	2.253E-03	3.140E-03	1.243E-03	1.560E-03	1.735E-03	1.084E-03	7.053E-03
30	-2.797F-03	-7.332E-04	2.573F-03	5.931E-03	6.471E-03	5.120E-03	3.429E-03	3.078E-03	2.089E-03	1.066E-03	-5.201E-04	-1.625E-03
45	3.509F-03	9.121E-03	9.410E-03	6.531E-03	2.573E-03	-1.399E-03	7.120E-03	-1.340E-04	-3.873E-03	-6.596E-03	-1.007E-02	-1.224E-02
60	1.256F-03	7.871E-03	1.934E-03	-7.107E-03	-1.450E-02	1.948E-02	-2.634E-02	-1.305E-02	1.905E-02	-2.281E-02	-2.747E-02	-3.634E-02
75	9.728F-05	-1.139E-02	-1.930E-02	-2.439E-02	-1.572E-02	-4.621E-02	-2.642E-02	-3.285E-02	-3.934E-02	-4.348E-02	-4.875E-02	-5.213E-02
120	-3.886F-02	-4.459E-02	-4.430E-02	-5.352E-02	-5.171E-02	-6.006E-02	-6.445E-02	-9.502E-02	-7.548E-02	-7.997E-02	-8.673E-02	-9.183E-02
150	-2.926F-02	-3.174E-02	-3.765E-02	-3.658E-02	-3.875E-02	-4.074E-02	-4.378E-02	-5.724E-02	-5.158E-02	-5.497E-02	-6.030E-02	-6.459E-02
179	-1.020F-03	-1.119E-03	-1.194E-03	-1.309E-03	-1.587E-03	-1.476E-03	-1.586E-03	-1.720E-03	-1.887E-03	-2.018E-03	-2.227E-03	-2.399E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	3.341E-06	4.262E-06	4.924E-06	5.294E-06	5.657E-06	4.904E-06	4.429E-06	4.045E-06	3.401E-06	2.756E-06	2.076E-06	1.675E-06
2	1.519F-05	1.779E-05	2.030E-05	2.093E-05	2.034E-05	1.831E-05	1.634E-05	1.445E-05	1.238E-05	9.891E-06	7.407E-06	5.922E-06
3	3.714F-05	4.352E-05	4.843F-05	4.589E-05	4.164E-05	3.748E-05	3.300E-05	2.943E-05	2.418E-05	1.911E-05	1.419E-05	1.131E-05
4	7.177E-05	8.009E-05	8.162E-05	7.669E-05	7.046E-05	5.737E-05	5.129E-05	4.547E-05	3.676E-05	2.868E-05	2.109E-05	1.672E-05
6	1.709F-04	1.752E-04	1.759E-04	1.446E-04	1.254E-04	9.924E-05	8.166E-05	6.919E-05	5.352E-05	4.010E-05	2.854E-05	2.227E-05
8	2.940E-04	2.832E-04	2.492E-04	1.942E-04	1.607E-04	1.272E-04	8.444E-05	6.638E-05	4.537E-05	3.009E-05	1.854E-05	1.398E-05
10	4.313F-04	3.957E-04	3.055E-04	2.124E-04	1.504E-04	7.556E-05	4.044E-05	1.872E-05	2.586E-06	1.339E-05	1.641E-05	1.544E-05
15	6.347F-04	4.198E-04	1.843E-04	5.407E-05	-1.554E-04	-3.194E-04	-1.670E-04	-3.796E-04	-3.668E-04	-3.247E-04	-2.812E-04	-2.154E-04
20	3.901F-04	-8.152E-05	-5.759E-04	-9.505E-04	-1.150E-03	-1.316E-03	-1.331E-03	-1.295E-03	-1.178E-03	-1.004E-03	-7.874E-04	-6.427E-04
30	-4.249E-03	-3.314E-03	-4.453F-03	-5.194E-03	-5.432E-03	-5.519E-03	-5.296E-03	-5.001E-03	-4.411E-03	-3.681E-03	-2.849E-03	-2.311E-03
45	-1.373F-02	-1.364E-02	-1.711E-02	-1.814E-02	-1.834E-02	-1.771E-02	-1.669E-02	-1.558E-02	-1.359E-02	-1.126E-02	-8.672E-03	-6.023E-03
60	-3.237F-02	-3.845E-02	-3.433E-02	-3.801E-02	-3.704E-02	-3.636E-02	-3.413E-02	-3.193E-02	-2.788E-02	-2.314E-02	-1.785E-02	-1.446E-02
75	-5.453F-02	-5.714E-02	-6.042E-02	-6.212E-02	-6.213E-02	-5.997E-02	-5.673E-02	-5.333E-02	-4.604E-02	-3.925E-02	-3.046E-02	-2.476E-02
90	-7.567F-02	-7.988E-02	-8.170F-02	-8.693E-02	-8.742E-02	-8.631E-02	-8.244E-02	-7.871E-02	-7.077E-02	-5.655E-02	-4.683E-02	-3.829E-02
120	-9.614F-02	-1.030E-01	-1.107E-01	-1.194E-01	-1.254E-01	-1.317E-01	-1.334E-01	-1.322E-01	-1.260E-01	-1.134E-01	-9.391E-02	-7.884E-02
150	-6.831F-02	-7.470E-02	-8.240E-02	-9.405E-02	-1.074E-01	-1.211E-01	-1.313E-01	-1.409E-01	-1.537E-01	-1.619E-01	-1.593E-01	-1.484E-01
179	-2.549F-03	-2.815E-03	-3.164E-03	-3.640F-03	-4.152E-03	-5.030E-03	-5.858E-03	-6.659E-03	-8.210E-03	-1.047E-02	-1.416E-02	-1.780E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	1.205F-04	9.345E-07	7.451E-07	5.615E-07	4.017E-07	2.720E-07	2.057E-07	1.383E-07	1.041E-07	8.353E-08	5.984E-08	4.198E-08
2	4.224F-06	3.269E-06	2.491E-06	1.962E-06	1.402E-06	9.447E-07	7.181E-07	4.827E-07	3.636E-07	2.916E-07	2.089E-07	1.465E-07
3	4.046F-06	6.249E-06	5.110E-06	3.746E-06	2.675E-06	1.812E-06	1.376E-06	9.211E-07	6.937E-07	5.644E-07	3.986E-07	2.790E-07
4	1.195F-05	1.201E-05	7.509F-06	5.499F-06	3.924E-06	2.859E-06	2.010E-06	1.351E-06	1.018E-06	8.161E-07	5.846E-07	4.101E-07
6	1.557F-05	1.240E-05	7.779E-06	7.142E-06	5.091E-06	3.455E-06	2.604E-06	1.750E-06	1.317E-06	1.057E-06	7.569E-07	5.309E-07
8	9.204F-05	6.915E-05	5.559E-05	4.005E-05	2.831E-05	1.909E-05	1.440E-05	9.668E-07	7.277E-07	5.835E-07	4.179E-07	2.931E-07
10	-1.579F-04	-1.015E-05	-8.494E-06	-6.358E-06	-4.594E-06	-3.134E-06	-2.373E-06	-1.600E-06	-1.205E-06	-9.671E-07	-6.929E-07	-4.862E-07
15	-2.797F-04	-1.241E-04	-1.021E-04	-7.523E-05	-5.350E-05	-3.658E-05	-2.768E-05	-1.861E-05	-1.402E-05	-1.125E-05	-8.056E-06	-6.552E-06
20	-4.671F-04	-3.659E-04	-3.009E-04	-2.211F-04	-1.581E-04	-1.074E-04	-8.122E-05	-5.462E-05	-4.114E-05	-3.300E-05	-2.364E-05	-1.659E-05
30	-1.671E-03	-1.366E-03	-1.072E-03	-7.880E-04	-5.644E-04	-3.823E-04	-2.492E-04	-1.944E-04	-1.465E-04	-1.175E-04	-8.415E-05	-6.903E-05
45	-5.073F-03	-3.762E-03	-3.247E-03	-2.384E-03	-1.704E-03	-1.158E-03	-9.763E-04	-8.891E-04	-4.437E-04	-3.559E-04	-2.549E-04	-1.788E-04
60	-1.045E-02	-8.169E-03	-6.701E-03	-4.927E-03	-3.295E-03	-2.310E-03	-1.809E-03	-1.215E-03	-9.155E-04	-7.343E-04	-5.260E-04	-3.609E-04
75	-1.734F-02	-1.404E-02	-1.154E-02	-8.474E-03	-6.064E-03	-4.113E-03	-3.111E-03	-2.022E-03	-1.576E-03	-1.264E-03	-8.053E-04	-6.351E-04
90	-2.747F-02	-2.185E-02	-1.793E-02	-1.322F-02	-9.444E-03	-6.421E-03	-4.455E-03	-3.267E-03	-2.461E-03	-1.974E-03	-1.414E-03	-9.919E-04
120	-5.844F-02	-4.662E-02	-3.851E-02	-2.851E-02	-2.007E-02	-1.391E-02	-9.044E-03	-6.094E-03	-4.366E-03	-3.280E-03	-2.367E-03	-1.511E-03
150	-2.34F-01	-1.029E-01	-8.744F-02	-6.647E-02	-4.051E-02	-3.327E-02	-2.527E-02	-1.945E-02	-1.285E-02	-1.031E-02	-7.390E-03	-5.185E-03
179	-2.448F-02	-3.207E-02	-3.405E-02	-5.271F-02	-7.214E-02	-1.011E-01	-1.244E-01	-1.564E-01	-1.702E-01	-1.725E-01	-1.606E-01	-1.342E-01

HR (35)	SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)			
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02		
1	-8.878E-03	4.111E-08	-4.540E-08	2.432E-07	4.444E-08	2.419E-07	4.304E-07	9.654E-07	1.319E-06	1.785E-06	1.971E-06	2.672E-06		
2	-2.052E-07	-1.279E-07	5.730E-07	1.001E-07	1.518E-06	1.125E-06	1.471E-06	3.749E-06	4.535E-06	4.516E-06	8.595E-06	1.195E-05		
3	1.324E-06	9.837E-07	3.924E-06	3.010E-06	1.354E-06	8.450E-07	5.998E-06	8.303E-06	7.159E-06	1.029E-05	2.215E-05	3.094E-05		
4	-5.255E-07	2.811E-06	-1.317E-06	4.362E-06	-9.544E-07	3.770E-06	1.407E-05	1.093E-05	9.879E-06	2.043E-05	4.512E-05	6.241E-05		
6	5.874E-05	-6.558E-06	1.167E-05	-7.243E-06	8.951E-06	2.789E-05	2.201E-05	3.509E-06	2.693E-05	6.864E-05	1.301E-04	1.620E-04		
8	4.003E-04	1.823E-05	7.653E-06	-2.603E-06	4.982E-05	5.025E-05	1.511E-06	-5.027E-06	8.458E-05	1.713E-04	2.680E-04	3.045E-04		
10	-3.101E-03	4.068E-05	-3.701E-05	5.245E-05	8.511E-05	3.179E-05	-4.197E-05	1.725E-05	2.045E-04	3.358E-04	4.492E-04	4.721E-04		
15	1.202E-04	-1.256E-04	9.080E-05	1.580E-04	-8.508E-05	-1.868E-04	-3.051E-05	3.816E-04	8.021E-04	9.541E-04	9.565E-04	8.455E-04		
20	-2.256E-04	2.023E-04	3.921E-04	-2.508E-04	-4.271E-04	-1.866E-04	5.346E-04	1.264E-03	1.643E-03	1.600E-03	1.233E-03	8.496E-04		
30	9.094E-04	2.108E-05	-1.119E-03	-5.542E-04	9.475E-04	2.112E-03	3.231E-03	3.350E-03	2.435E-03	1.399E-03	-2.551E-03	-1.423E-03		
45	-2.751E-03	-1.432E-03	1.975E-03	5.986E-03	6.864E-03	6.375E-03	4.198E-03	8.234E-04	-3.402E-03	-6.306E-03	-1.003E-02	-1.234E-02		
60	2.491E-03	9.125E-03	1.053E-02	7.759E-03	3.564E-03	-3.119E-04	-6.452E-03	-1.273E-02	-1.917E-02	-2.322E-02	-2.821E-02	-3.127E-02		
75	1.352E-02	9.518E-03	3.572E-03	-6.545E-03	-1.382E-02	-1.918E-02	-2.661E-02	-3.361E-02	-4.059E-02	-4.501E-02	-5.061E-02	-5.417E-02		
90	1.925E-03	-1.019E-02	-1.870E-02	-2.963E-02	-3.649E-02	-4.135E-02	-4.803E-02	-5.446E-02	-6.119E-02	-6.570E-02	-7.177E-02	-7.588E-02		
120	-4.329E-02	-4.646E-02	-5.049E-02	-5.597E-02	-5.981E-02	-6.278E-02	-6.757E-02	-7.279E-02	-7.937E-02	-8.376E-02	-9.083E-02	-9.621E-02		
150	-3.066E-02	-3.324E-02	-3.524E-02	-3.831E-02	-4.068E-02	-4.264E-02	-4.581E-02	-4.946E-02	-5.402E-02	-5.758E-02	-6.316E-02	-6.766E-02		
179	-1.066E-03	-1.169E-03	-1.240E-03	-1.369E-03	-1.461E-03	-1.537E-03	-1.659E-03	-1.799E-03	-1.975E-03	-2.113E-03	-2.333E-03	-2.513E-03		
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00		
1	3.320E-06	4.304E-06	5.031E-06	5.429E-06	5.472E-06	5.125E-06	4.696E-06	4.248E-06	3.600E-06	2.914E-06	2.197E-06	1.759E-06		
2	1.525E-05	1.856E-05	2.140E-05	2.182E-05	2.144E-05	1.933E-05	1.742E-05	1.562E-05	1.315E-05	1.052E-05	7.886E-06	6.307E-06		
3	3.795E-05	4.525E-05	4.880E-05	4.824E-05	4.573E-05	4.014E-05	3.544E-05	3.147E-05	2.615E-05	2.052E-05	1.526E-05	1.216E-05		
4	7.301E-05	8.293E-05	8.568E-05	8.159E-05	7.538E-05	6.422E-05	5.040E-05	4.912E-05	3.984E-05	3.115E-05	2.294E-05	1.820E-05		
6	1.771E-04	1.847E-04	1.770E-04	1.561E-04	1.368E-04	1.090E-04	9.531E-05	7.713E-05	5.990E-05	4.515E-05	3.292E-05	2.527E-05		
8	3.141E-04	3.037E-04	2.707E-04	2.184E-04	1.797E-04	1.288E-04	9.836E-05	7.865E-05	5.531E-05	3.785E-05	2.478E-05	1.852E-05		
10	4.624E-04	4.151E-04	3.495E-04	2.434E-04	1.781E-04	1.009E-04	5.934E-05	3.508E-05	1.040E-05	-3.385E-06	-9.129E-06	-9.696E-06		
15	7.197E-04	4.964E-04	2.506E-04	-1.529E-06	-1.464E-04	-2.881E-04	-3.202E-04	-3.597E-04	-3.521E-04	-3.142E-04	-2.540E-04	-2.098E-04		
20	5.233E-04	2.485E-05	-4.520E-04	-8.946E-04	-1.170E-03	-1.295E-03	-1.319E-03	-1.288E-03	-1.176E-03	-1.004E-03	-7.893E-04	-6.446E-04		
30	-2.278E-03	-3.434E-03	-4.437E-03	-5.235E-03	-5.547E-03	-5.605E-03	-5.387E-03	-5.092E-03	-4.494E-03	-3.753E-03	-2.905E-03	-2.357E-03		
45	-1.394E-02	-1.597E-02	-1.760E-02	-1.867E-02	-1.885E-02	-1.821E-02	-1.715E-02	-1.602E-02	-1.397E-02	-1.158E-02	-8.914E-03	-7.218E-03		
60	-3.336E-02	-3.603E-02	-3.812E-02	-3.932E-02	-3.973E-02	-3.757E-02	-3.529E-02	-3.296E-02	-2.876E-02	-2.386E-02	-1.840E-02	-1.491E-02		
75	-5.669E-02	-6.003E-02	-6.278E-02	-6.448E-02	-6.444E-02	-6.212E-02	-5.873E-02	-5.516E-02	-4.851E-02	-4.053E-02	-3.144E-02	-2.555E-02		
90	-7.895E-02	-8.329E-02	-8.728E-02	-9.044E-02	-9.137E-02	-8.956E-02	-8.586E-02	-8.152E-02	-7.281E-02	-6.167E-02	-4.838E-02	-3.953E-02		
120	-1.006E-01	-1.077E-01	-1.156E-01	-1.248E-01	-1.308E-01	-1.370E-01	-1.385E-01	-1.373E-01	-1.306E-01	-1.175E-01	-9.713E-02	-8.150E-02		
150	-7.155E-02	-7.822E-02	-8.665E-02	-9.834E-02	-1.082E-01	-1.244E-01	-1.370E-01	-1.468E-01	-1.600E-01	-1.683E-01	-1.652E-01	-1.537E-01		
179	-2.673E-03	-2.948E-03	-3.313E-03	-3.851E-03	-4.344E-03	-5.259E-03	-6.123E-03	-6.958E-03	-8.577E-03	-1.094E-02	-1.479E-02	-1.859E-02		
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02		
1	1.267E-06	9.808E-07	8.031E-07	5.895E-07	4.236E-07	2.871E-07	2.171E-07	1.460E-07	1.099E-07	8.817E-08	6.316E-08	4.431E-08		
2	4.505E-06	3.505E-06	2.868E-06	2.104E-06	1.509E-06	1.018E-06	7.701E-07	5.177E-07	3.899E-07	3.127E-07	2.240E-07	1.572E-07		
3	8.659E-06	6.766E-06	5.533E-06	4.056E-06	2.897E-06	1.963E-06	1.484E-06	9.975E-07	7.513E-07	6.025E-07	4.316E-07	3.028E-07		
4	1.291E-05	1.002E-05	8.184E-06	5.995E-06	4.280E-06	2.899E-06	2.192E-06	1.473E-06	1.110E-06	8.898E-07	6.374E-07	4.472E-07		
6	1.770E-05	1.366E-05	1.113E-05	8.136E-06	5.800E-06	3.925E-06	2.967E-06	1.994E-06	1.501E-06	1.204E-06	8.625E-07	6.051E-07		
8	1.243E-05	9.411E-06	7.590E-06	5.499E-06	3.900E-06	2.631E-06	1.987E-06	1.334E-06	1.004E-06	8.053E-07	5.768E-07	4.046E-07		
10	-8.401E-06	-7.005E-06	-5.921E-06	-4.481E-06	-3.256E-06	-2.227E-06	-1.690E-06	-1.139E-06	-8.583E-07	-6.886E-07	-4.935E-07	-3.463E-07		
15	-1.543E-04	-1.212E-04	-9.969E-05	-7.350E-05	-5.267E-05	-3.515E-05	-2.705E-05	-1.819E-05	-1.370E-05	-1.099E-05	-7.873E-06	-5.523E-06		
20	-4.687E-04	-3.673E-04	-3.016E-04	-2.220E-04	-1.589E-04	-1.078E-04	-8.155E-05	-5.484E-05	-4.131E-05	-3.313E-05	-2.373E-05	-1.665E-05		
30	-1.705E-03	-1.333E-03	-1.093E-03	-8.040E-04	-5.752E-04	-3.900E-04	-2.950E-04	-1.984E-04	-1.494E-04	-1.198E-04	-8.585E-05	-6.023E-05		
45	-5.211E-03	-4.071E-03	-3.339E-03	-2.454E-03	-1.756E-03	-1.190E-03	-9.004E-04	-6.054E-04	-4.560E-04	-3.657E-04	-2.620E-04	-1.838E-04		
60	-1.077E-02	-8.518E-03	-6.805E-03	-5.076E-03	-3.632E-03	-2.462E-03	-1.863E-03	-1.252E-03	-9.433E-04	-7.565E-04	-5.420E-04	-3.802E-04		
75	-1.851E-02	-1.448E-02	-1.180E-02	-8.742E-03	-6.256E-03	-4.242E-03	-3.209E-03	-2.158E-03	-1.625E-03	-1.304E-03	-9.339E-04	-6.551E-04		
90	-2.877E-02	-2.256E-02	-1.853E-02	-1.364E-02	-9.769E-03	-6.628E-03	-5.014E-03	-3.372E-03	-2.540E-03	-2.037E-03	-1.459E-03	-1.024E-03		
120	-6.078E-02	-4.815E-02	-3.977E-02	-2.943E-02	-2.113E-02	-1.436E-02	-1.087E-02	-7.313E-03	-5.510E-03	-4.419E-03	-3.166E-03	-2.221E-03		
150	-1.277E-01	-1.064E-01	-9.034E-02	-6.867E-02	-5.009E-02	-3.435E-02	-2.609E-02	-1.759E-02	-1.327E-02	-1.065E-02	-7.630E-03	-5.354E-03		
179	-2.608E-02	-3.348E-02	-4.078E-02	-5.503E-02	-7.531E-02	-1.054E-01	-1.301E-01	-1.628E-01	-1.769E-01	-1.790E-01	-1.664E-01	-1.389E-01		

KR (36)

SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM

ENERGY (MEV)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-6.931E-08	6.748E-08	-1.127E-08	1.354E-07	1.037E-07	1.987E-07	7.003E-07	6.453E-07	1.571E-06	1.842E-06	2.255E-06	2.586E-06
2	9.778E-08	8.291E-08	6.718E-07	3.315E-07	1.259E-06	1.090E-06	1.441E-06	3.571E-06	4.690E-06	4.534E-06	8.316E-06	1.240E-05
3	8.212E-07	1.061E-07	7.344E-07	2.480E-06	2.374E-06	5.322E-07	5.416E-06	8.972E-06	7.434E-06	9.765E-06	2.065E-05	3.067E-05
4	1.098E-06	3.659E-06	-1.787E-06	5.790E-06	-6.449E-07	1.946E-06	1.397E-05	1.273E-05	9.446E-06	1.825E-05	4.324E-05	6.182E-05
6	1.071E-06	-7.238E-06	1.181E-05	-5.595E-06	3.048E-06	2.580E-05	2.738E-05	5.155E-06	2.145E-05	6.229E-05	1.279E-04	1.643E-04
8	1.447E-05	8.226E-06	1.852E-05	-1.303E-05	4.459E-05	5.771E-05	1.074E-05	-1.087E-05	7.052E-05	1.614E-04	2.700E-04	3.145E-04
10	-2.907E-05	4.946E-05	-2.752E-05	3.404E-05	9.470E-05	5.221E-05	-3.855E-05	-3.308E-06	1.839E-04	3.273E-04	4.617E-04	4.963E-04
15	1.271E-04	-1.296E-04	3.520E-05	2.043E-04	-3.030E-05	-1.051E-04	-8.795E-05	3.235E-04	7.941E-04	9.850E-04	1.025E-03	9.266E-04
20	-1.568E-04	9.491E-05	4.471E-04	-1.636E-04	-4.629E-04	-2.963E-04	4.149E-04	1.226E-03	1.713E-03	1.723E-03	1.386E-03	1.001E-03
30	7.768E-04	3.264E-04	-1.024E-03	-8.426E-04	6.444E-04	1.924E-03	3.283E-03	3.605E-03	2.789E-03	1.750E-03	3.306E-05	-1.199E-03
45	-2.537E-07	-2.107E-03	1.290E-03	5.904E-03	7.242E-03	7.002E-03	4.989E-03	1.564E-03	-2.872E-03	-5.961E-03	-9.940E-03	-1.241E-02
60	1.349E-03	8.950E-03	1.113E-02	8.989E-03	4.055E-03	8.655E-04	-5.602E-03	-1.231E-02	-1.922E-02	-2.357E-02	-2.891E-02	-3.216E-02
75	1.432E-02	1.118E-02	5.291E-03	-5.242E-03	-1.299E-02	-1.875E-02	-2.676E-02	-3.431E-02	-4.180E-02	-4.652E-02	-5.247E-02	-5.622E-02
90	3.876E-03	-8.827E-03	-1.794E-02	-2.974E-02	-3.717E-02	-4.241E-02	-4.960E-02	-5.649E-02	-6.365E-02	-6.841E-02	-7.479E-02	-7.909E-02
120	-4.168E-02	-4.833E-02	-5.265E-02	-5.845E-02	-6.253E-02	-6.572E-02	-7.066E-02	-7.613E-02	-8.269E-02	-8.762E-02	-9.500E-02	-1.006E-01
150	-3.208E-02	-3.478E-02	-3.680E-02	-4.006E-02	-4.254E-02	-4.578E-02	-4.789E-02	-5.171E-02	-5.649E-02	-6.022E-02	-6.608E-02	-7.079E-02
179	-1.112E-03	-1.220E-03	-1.303E-03	-1.429E-03	-1.525E-03	-1.604E-03	-1.732E-03	-1.879E-03	-2.064E-03	-2.209E-03	-2.440E-03	-2.629E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	3.411E-06	4.335E-06	5.105E-06	5.632E-06	5.669E-06	5.342E-06	4.909E-06	4.449E-06	3.778E-06	3.061E-06	2.317E-06	1.851E-06
2	1.493E-05	1.902E-05	2.161E-05	2.300E-05	2.231E-05	2.030E-05	1.831E-05	1.658E-05	1.393E-05	1.116E-05	8.372E-06	6.699E-06
3	3.795E-05	4.551E-05	5.059E-05	5.065E-05	4.823E-05	4.259E-05	3.748E-05	3.355E-05	2.770E-05	2.215E-05	1.635E-05	1.304E-05
4	7.377E-05	8.550E-05	8.972E-05	8.627E-05	8.014E-05	6.872E-05	5.936E-05	5.251E-05	4.300E-05	3.369E-05	2.486E-05	1.974E-05
6	1.825E-04	1.936E-04	1.881E-04	1.678E-04	1.441E-04	1.191E-04	9.929E-05	8.517E-05	6.655E-05	5.042E-05	3.622E-05	2.840E-05
8	3.291E-04	3.233E-04	2.926E-04	2.396E-04	1.995E-04	1.457E-04	1.130E-04	9.156E-05	6.580E-05	4.606E-05	3.084E-05	2.335E-05
10	4.926E-04	4.492E-04	3.747E-04	2.751E-04	2.049E-04	1.245E-04	7.940E-05	5.254E-05	2.433E-05	7.363E-06	-1.285E-06	-3.498E-06
15	8.035E-04	5.765E-04	3.211E-04	5.508E-05	-9.455E-05	-2.536E-04	-3.148E-04	-3.372E-04	-3.354E-04	-3.020E-04	-2.455E-04	-2.033E-04
20	6.645E-04	1.479E-04	-3.598E-04	-8.313E-04	-1.074E-03	-1.269E-03	-1.303E-03	-1.277E-03	-1.171E-03	-1.003E-03	-7.892E-04	-6.451E-04
30	-2.105E-03	-3.334E-03	-4.404E-03	-5.260E-03	-5.601E-03	-5.683E-03	-5.471E-03	-5.176E-03	-4.573E-03	-3.821E-03	-2.958E-03	-2.401E-03
45	-1.411E-02	-1.628E-02	-1.801E-02	-1.915E-02	-1.935E-02	-1.871E-02	-1.761E-02	-1.646E-02	-1.435E-02	-1.189E-02	-9.152E-03	-7.411E-03
60	-3.438E-02	-3.720E-02	-3.938E-02	-4.062E-02	-4.052E-02	-3.878E-02	-3.640E-02	-3.399E-02	-2.964E-02	-2.458E-02	-1.895E-02	-1.535E-02
75	-5.886E-02	-6.233E-02	-6.515E-02	-6.686E-02	-6.676E-02	-6.428E-02	-6.073E-02	-5.699E-02	-5.009E-02	-4.182E-02	-3.242E-02	-2.634E-02
90	-8.228E-02	-8.675E-02	-9.083E-02	-9.399E-02	-9.476E-02	-9.284E-02	-8.891E-02	-8.435E-02	-7.526E-02	-6.369E-02	-4.943E-02	-4.079E-02
120	-1.052E-01	-1.125E-01	-1.207E-01	-1.301E-01	-1.362E-01	-1.425E-01	-1.438E-01	-1.424E-01	-1.353E-01	-1.215E-01	-1.004E-01	-8.417E-02
150	-7.484E-02	-8.181E-02	-9.058E-02	-1.027E-01	-1.130E-01	-1.297E-01	-1.427E-01	-1.528E-01	-1.664E-01	-1.747E-01	-1.712E-01	-1.591E-01
179	-2.794E-03	-3.084E-03	-3.464E-03	-4.026E-03	-4.539E-03	-5.493E-03	-6.394E-03	-7.264E-03	-8.952E-03	-1.141E-02	-1.543E-02	-1.937E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	1.328E-06	1.036E-06	8.489E-07	6.234E-07	4.455E-07	3.022E-07	2.285E-07	1.536E-07	1.157E-07	9.279E-08	6.647E-08	4.663E-08
2	4.787E-06	3.724E-06	3.048E-06	2.236E-06	1.597E-06	1.082E-06	8.186E-07	5.503E-07	4.144E-07	3.324E-07	2.381E-07	1.670E-07
3	9.288E-06	7.217E-06	5.903E-06	4.328E-06	3.091E-06	2.094E-06	1.583E-06	1.064E-06	8.016E-07	6.499E-07	4.606E-07	3.231E-07
4	1.401E-05	1.067E-05	8.833E-06	6.508E-06	4.647E-06	3.147E-06	2.380E-06	1.600E-06	1.205E-06	9.661E-07	6.921E-07	4.855E-07
6	1.993E-05	1.540E-05	1.255E-05	9.176E-06	6.544E-06	4.428E-06	3.347E-06	2.250E-06	1.694E-06	1.359E-06	9.732E-07	6.827E-07
8	1.584E-05	1.206E-05	9.761E-06	7.086E-06	5.032E-06	3.398E-06	2.567E-06	1.724E-06	1.298E-06	1.041E-06	7.455E-07	5.229E-07
10	-4.023E-06	-3.612E-06	-3.156E-06	-2.453E-06	-1.808E-06	-1.247E-06	-9.486E-07	-6.405E-07	-4.832E-07	-3.878E-07	-2.780E-07	-1.951E-07
15	-1.495E-04	-1.177E-04	-9.687E-05	-7.145E-05	-5.121E-05	-3.476E-05	-2.630E-05	-1.764E-05	-1.332E-05	-1.069E-05	-7.626E-06	-5.751E-06
20	-4.693E-04	-3.678E-04	-3.021E-04	-2.224E-04	-1.592E-04	-1.080E-04	-8.170E-05	-5.494E-05	-4.138E-05	-3.319E-05	-2.378E-05	-1.668E-05
30	-1.737E-03	-1.358E-03	-1.114E-03	-8.191E-04	-5.861E-04	-3.974E-04	-3.006E-04	-2.021E-04	-1.522E-04	-1.221E-04	-8.747E-05	-6.136E-05
45	-5.353E-03	-4.180E-03	-3.428E-03	-2.520E-03	-1.802E-03	-1.222E-03	-9.244E-04	-6.215E-04	-4.681E-04	-3.754E-04	-2.690E-04	-1.887E-04
60	-1.109E-02	-8.666E-03	-7.108E-03	-5.226E-03	-3.738E-03	-2.535E-03	-1.917E-03	-1.289E-03	-9.710E-04	-7.788E-04	-5.579E-04	-3.914E-04
75	-1.908E-02	-1.493E-02	-1.225E-02	-9.010E-03	-6.447E-03	-4.372E-03	-3.307E-03	-2.224E-03	-1.675E-03	-1.343E-03	-9.624E-04	-6.752E-04
90	-2.968E-02	-2.326E-02	-1.911E-02	-1.407E-02	-1.007E-02	-6.834E-03	-5.170E-03	-3.477E-03	-2.619E-03	-2.100E-03	-1.505E-03	-1.056E-03
120	-6.274E-02	-4.969E-02	-4.104E-02	-3.036E-02	-2.189E-02	-1.481E-02	-1.121E-02	-7.544E-03	-5.683E-03	-4.559E-03	-3.266E-03	-2.291E-03
150	-1.320E-01	-1.099E-01	-9.328E-02	-7.087E-02	-5.149E-02	-3.544E-02	-2.691E-02	-1.815E-02	-1.369E-02	-1.098E-02	-7.871E-03	-5.523E-03
179	-2.721E-02	-3.493E-02	-4.254E-02	-5.739E-02	-7.653E-02	-1.099E-01	-1.355E-01	-1.692E-01	-1.837E-01	-1.866E-01	-1.723E-01	-1.436E-01

RB	(37)	SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)			
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02		
DEG															
1	-1.966E-08	7.066E-09	7.829E-08	2.556E-07	4.049E-08	1.464E-07	5.343E-07	5.385E-07	1.575E-06	1.897E-06	2.245E-06	2.824E-06			
2	2.244E-07	3.578E-07	1.163E-07	-8.789E-08	1.099E-06	1.334E-06	1.263E-06	3.640E-06	5.006E-06	4.620E-06	8.061E-06	1.108E-05			
3	-3.632E-07	-7.544E-07	1.520E-06	1.708E-06	2.041E-05	7.496E-06	4.510E-06	7.833E-06	7.968E-06	9.180E-06	1.958E-05	2.993E-05			
4	2.602E-06	3.406E-06	-1.702E-06	6.233E-06	1.295E-07	3.140E-07	1.284E-05	1.456E-06	9.457E-06	1.640E-05	4.134E-05	6.084E-05			
6	-4.049E-06	-5.072E-06	7.661E-06	-1.863E-06	-1.954E-06	2.173E-05	3.207E-05	8.300E-06	1.609E-05	5.498E-05	1.247E-04	1.655E-04			
8	2.034E-05	-3.798E-06	2.762E-05	-2.064E-05	3.001E-05	6.240E-05	2.161E-05	-1.425E-05	5.615E-05	1.493E-04	2.644E-04	3.233E-04			
10	-1.617E-05	4.885E-05	-1.106E-05	1.275E-05	9.873E-05	7.270E-05	-3.003E-05	-2.141E-05	1.602E-04	3.151E-04	4.715E-04	5.186E-04			
15	1.061E-04	-1.105E-04	-2.514E-05	2.395E-04	1.741E-05	-1.697E-04	-1.399E-04	2.592E-04	7.765E-04	1.009E-03	1.091E-03	1.008E-03			
20	-5.262E-05	-2.675E-05	4.583E-04	-5.595E-05	-4.730E-04	-3.942E-04	2.846E-04	1.169E-03	1.771E-03	1.840E-03	1.541E-03	1.158E-03			
30	5.567E-04	6.323E-04	-8.577E-04	-1.106E-03	3.168E-04	1.640E-03	3.292E-03	3.839E-03	3.147E-03	2.117E-03	3.441E-04	-9.503E-04			
45	-2.157E-01	-2.729E-03	5.511E-04	5.710E-03	7.542E-03	7.591E-03	5.794E-03	2.351E-03	-2.284E-03	-5.559E-03	-9.802E-03	-1.244E-02			
60	1.094E-04	8.588E-03	1.161E-02	1.021E-02	6.202E-03	2.129E-03	-4.649E-03	-1.179E-02	-1.919E-02	-2.385E-02	-2.957E-02	-3.303E-02			
75	1.495E-02	1.282E-02	7.104E-03	-3.799E-03	-1.202E-02	-1.819E-02	-2.681E-02	-3.492E-02	-4.296E-02	-4.800E-02	-5.431E-02	-5.826E-02			
90	5.937E-03	-7.293E-03	-1.701E-02	-2.973E-02	-3.775E-02	-4.341E-02	-5.113E-02	-5.850E-02	-6.611E-02	-7.114E-02	-7.784E-02	-8.233E-02			
120	-4.304E-02	-5.020E-02	-5.481E-02	-6.097E-02	-6.527E-02	-6.862E-02	-7.380E-02	-7.952E-02	-8.639E-02	-9.154E-02	-9.924E-02	-1.051E-01			
150	-3.354E-02	-3.634E-02	-3.850E-02	-4.184E-02	-4.442E-02	-4.655E-02	-5.000E-02	-5.400E-02	-5.900E-02	-6.291E-02	-6.904E-02	-7.396E-02			
179	-1.160E-03	-1.272E-03	-1.352E-03	-1.490E-03	-1.590E-03	-1.673E-03	-1.807E-03	-1.961E-03	-2.155E-03	-2.307E-03	-2.549E-03	-2.746E-03			
		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00		
DEG															
1	3.400E-06	4.293E-06	5.114E-06	5.783E-06	5.857E-06	5.553E-06	5.119E-06	4.701E-06	3.956E-06	3.209E-06	2.430E-06	1.940E-06			
2	1.437E-05	1.936E-05	2.261E-05	2.385E-05	2.312E-05	2.136E-05	1.930E-05	1.754E-05	1.460E-05	1.140E-05	8.865E-06	7.096E-06			
3	3.770E-05	4.088E-05	5.160E-05	5.287E-05	5.064E-05	4.499E-05	3.996E-05	3.566E-05	2.951E-05	2.343E-05	1.762E-05	1.394E-05			
4	7.414E-05	8.776E-05	9.746E-05	9.077E-05	8.496E-05	7.329E-05	6.398E-05	5.689E-05	4.624E-05	3.631E-05	2.683E-05	2.132E-05			
6	1.871E-04	2.021E-04	1.991E-04	1.797E-04	1.600E-04	1.329E-04	1.086E-04	9.351E-05	7.346E-05	5.591E-05	4.032E-05	3.167E-05			
8	3.433E-04	3.429E-04	3.147E-04	2.614E-04	2.199E-04	1.633E-04	1.243E-04	1.051E-04	7.684E-05	5.472E-05	3.724E-05	2.841E-05			
10	5.218E-04	4.841E-04	4.101E-04	3.084E-04	2.375E-04	1.495E-04	1.007E-04	7.109E-05	3.918E-05	1.886E-05	7.122E-06	3.151E-06			
15	8.891E-04	6.601E-04	3.956E-04	1.158E-04	-4.889E-05	-2.158E-04	-2.846E-04	-3.116E-04	-3.166E-04	-2.882E-04	-2.358E-04	-1.958E-04			
20	8.134E-04	2.756E-04	-2.591E-04	-7.004E-04	-1.022E-03	-1.237E-03	-1.281E-03	-1.262E-03	-1.162E-03	-9.981E-04	-7.872E-04	-6.439E-04			
30	-1.909E-03	-3.215E-03	-4.355E-03	-5.272E-03	-5.644E-03	-5.752E-03	-5.548E-03	-5.254E-03	-4.646E-03	-3.885E-03	-3.009E-03	-2.442E-03			
45	-1.426E-02	-1.657E-02	-1.841E-02	-1.962E-02	-1.984E-02	-1.919E-02	-1.807E-02	-1.689E-02	-1.472E-02	-1.220E-02	-9.388E-03	-7.601E-03			
60	-3.538E-02	-3.835E-02	-4.064E-02	-4.192E-02	-4.184E-02	-3.998E-02	-3.752E-02	-3.501E-02	-3.052E-02	-2.530E-02	-1.949E-02	-1.579E-02			
75	-6.103E-02	-6.464E-02	-6.754E-02	-6.926E-02	-6.910E-02	-6.646E-02	-6.273E-02	-5.884E-02	-5.167E-02	-4.311E-02	-3.341E-02	-2.714E-02			
90	-8.564E-02	-9.026E-02	-9.442E-02	-9.759E-02	-9.828E-02	-9.614E-02	-9.199E-02	-8.720E-02	-7.773E-02	-6.572E-02	-5.149E-02	-4.204E-02			
120	-1.098E-01	-1.174E-01	-1.258E-01	-1.355E-01	-1.417E-01	-1.480E-01	-1.492E-01	-1.476E-01	-1.401E-01	-1.256E-01	-1.036E-01	-8.685E-02			
150	-7.820E-02	-8.545E-02	-9.457E-02	-1.072E-01	-1.178E-01	-1.351E-01	-1.485E-01	-1.590E-01	-1.728E-01	-1.813E-01	-1.773E-01	-1.645E-01			
179	-2.919E-01	-3.222E-01	-3.619E-01	-4.204E-01	-4.739E-01	-5.732E-01	-6.670E-01	-7.576E-01	-9.335E-01	-1.190E-02	-1.608E-02	-2.021E-02			
		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02		
DEG															
1	1.391E-05	1.091E-06	8.935E-07	6.559E-07	4.088E-07	3.178E-07	2.403E-07	1.616E-07	1.217E-07	9.759E-08	6.991E-08	4.904E-08			
2	5.073E-06	3.947E-06	3.230E-06	2.730E-06	1.693E-06	1.147E-06	8.677E-07	5.833E-07	4.393E-07	3.524E-07	2.524E-07	1.771E-07			
3	9.932E-06	7.719E-06	6.713E-06	4.629E-06	3.306E-06	2.240E-06	1.694E-06	1.139E-06	8.576E-07	6.878E-07	4.927E-07	3.456E-07			
4	1.514E-05	1.175E-05	9.604E-06	7.037E-06	5.025E-06	3.403E-06	2.573E-06	1.730E-06	1.303E-06	1.045E-06	7.484E-07	5.250E-07			
6	2.226E-05	1.721E-05	1.403E-05	1.026E-05	7.319E-06	4.954E-06	3.745E-06	2.517E-06	1.895E-06	1.520E-06	1.089E-06	7.638E-07			
8	1.945E-05	1.486E-05	1.205E-05	8.764E-06	6.231E-06	4.210E-06	3.181E-06	2.136E-06	1.609E-06	1.290E-06	9.240E-07	6.482E-07			
10	6.828E-07	3.216E-08	-1.800E-07	-2.735E-07	-2.539E-07	-1.935E-07	-1.523E-07	-1.054E-07	-8.017E-08	-6.460E-08	-4.646E-08	-3.267E-08			
15	-1.443E-04	-1.137E-04	-9.361E-05	-6.906E-05	-4.951E-05	-3.361E-05	-2.543E-05	-1.710E-05	-1.288E-05	-1.033E-05	-7.404E-06	-5.194E-06			
20	-4.688E-04	-3.675E-04	-3.017E-04	-2.222E-04	-1.591E-04	-1.079E-04	-8.166E-05	-5.491E-05	-4.136E-05	-3.317E-05	-2.376E-05	-1.667E-05			
30	-1.767E-03	-1.382E-03	-1.134E-03	-8.335E-04	-5.964E-04	-4.044E-04	-3.059E-04	-2.057E-04	-1.549E-04	-1.243E-04	-8.901E-05	-6.244E-05			
45	-5.487E-03	-4.287E-03	-3.510E-03	-2.544E-03	-1.848E-03	-1.253E-03	-8.480E-04	-6.374E-04	-4.801E-04	-3.850E-04	-2.758E-04	-1.935E-04			
60	-1.141E-02	-8.914E-03	-7.711E-03	-5.375E-03	-3.846E-03	-2.607E-03	-1.972E-03	-1.326E-03	-9.986E-04	-8.009E-04	-5.738E-04	-4.025E-04			
75	-1.965E-02	-1.537E-02	-1.261E-02	-9.278E-03	-6.039E-03	-4.502E-03	-3.406E-03	-2.290E-03	-1.725E-03	-1.383E-03	-9.910E-04	-6.952E-04			
90	-3.059E-02	-2.397E-02	-1.997E-02	-1.450E-02	-1.078E-02	-7.401E-03	-5.327E-03	-3.582E-03	-2.698E-03	-2.144E-03	-1.550E-03	-1.088E-03			
120	-6.470E-02	-5.123E-02	-4.230E-02	-3.130E-02	-2.247E-02	-1.527E-02	-1.156E-02	-7.775E-03	-5.857E-03	-4.698E-03	-3.366E-03	-2.362E-03			
150	-1.363E-01	-1.134E-01	-9.623E-02	-7.308E-02	-5.329E-02	-3.653E-02	-2.774E-02	-1.871E-02	-1.411E-02	-1.132E-02	-8.112E-03	-5.692E-03			
179	-2.836E-02	-3.649E-02	-4.433E-02	-5.980E-02	-8.189E-02	-1.144E-01	-1.410E-01	-1.758E-01	-1.906E-01	-1.922E-01	-1.782E-01	-1.483E-01			

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	1.701E-08	-3.943E-08	2.491E-08	5.552E-08	1.187E-07	4.395E-07	3.837E-07	8.878E-07	1.565E-06	1.517E-06	1.970E-06	2.826E-06
2	3.176E-07	6.950E-07	-1.641E-07	8.041E-08	9.071E-07	1.696E-06	1.179E-06	3.485E-06	4.703E-06	5.335E-06	7.062E-06	1.072E-05
3	-9.925E-07	-7.016E-07	2.226E-06	6.111E-07	3.014E-06	9.937E-07	1.225E-06	9.550E-06	8.446E-06	9.090E-06	1.849E-05	2.908E-05
4	2.840E-06	-2.079E-06	-4.474E-07	5.983E-06	-1.603E-06	-6.749E-07	1.157E-05	1.584E-05	9.923E-05	1.503E-05	3.877E-05	5.959E-05
6	-7.131E-06	-2.792E-06	1.857E-06	3.410E-06	6.277E-06	1.683E-05	3.579E-05	1.246E-05	1.177E-05	4.788E-05	2.06E-04	1.654E-04
8	-1.472E-05	-5.413E-05	3.255E-05	2.422E-05	2.445E-05	6.30E-05	3.373E-05	1.494E-05	4.223E-05	1.36E-04	2.678E-04	3.303E-04
10	-4.013E-05	3.844E-05	9.866E-05	-9.541E-05	9.638E-05	9.152E-05	1.656E-05	3.658E-05	1.348E-04	2.995E-04	1.154E-03	5.389E-04
15	6.057E-05	-6.967E-05	-8.739E-05	2.600E-04	7.089E-05	-1.405E-04	1.847E-04	1.903E-04	7.492E-04	1.025E-03	4.775E-03	1.089E-03
20	7.018E-05	-1.485E-04	4.784E-04	6.028E-05	4.355E-04	-7.753E-04	1.494E-03	1.094E-03	1.814E-03	1.949E-03	1.154E-03	1.089E-03
30	2.697E-04	-6.269E-04	1.157E-04	6.269E-04	2.334E-05	1.144E-03	3.254E-03	4.049E-03	3.506E-03	2.948E-03	6.775E-04	6.784E-04
45	-1.423E-03	-3.272E-03	-2.797E-04	5.403E-03	7.594E-03	8.131E-03	6.605E-03	1.117E-03	1.637E-03	5.100E-03	-9.614E-03	1.243E-02
60	-1.173E-03	8.037E-03	1.193E-02	1.140E-02	7.754E-03	3.727E-03	7.593E-03	-1.117E-03	1.909E-02	-2.407E-02	-3.018E-02	3.386E-02
75	1.537E-02	1.443E-02	8.976E-03	-2.218E-03	1.691E-02	-1.749E-02	-2.674E-02	3.546E-02	4.407E-02	-9.945E-02	5.614E-02	-6.031E-02
90	8.092E-03	-5.586E-03	1.592E-02	-2.957E-02	-3.672E-02	-4.432E-02	-5.262E-02	-6.048E-02	-6.856E-02	-7.348E-02	-8.092E-02	-8.560E-02
120	-4.437E-02	-5.407E-02	-5.699E-02	-6.352E-02	-6.804E-02	-7.157E-02	-7.699E-02	-8.298E-02	-9.015E-02	-9.552E-02	-1.035E-01	-1.096E-01
150	-3.702E-02	-3.793E-02	-4.018E-02	-4.364E-02	-4.673E-02	-4.855E-02	-5.215E-02	-5.632E-02	-6.155E-02	-6.563E-02	-7.205E-02	-7.719E-02
179	-1.208E-03	-1.325E-03	-1.415E-03	-1.551E-03	-1.654E-03	-1.743E-03	-1.882E-03	-2.043E-03	-2.246E-03	-2.406E-03	-2.699E-03	-2.865E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	3.304E-06	4.366E-06	5.142E-06	5.921E-06	5.970E-06	5.759E-06	5.325E-06	4.900E-06	4.179E-06	3.357E-06	2.544E-06	2.045E-06
2	1.411E-05	1.932E-05	2.707E-05	2.465E-05	2.403E-05	2.239E-05	2.022E-05	1.842E-05	1.550E-05	1.255E-05	9.363E-06	7.498E-06
3	3.731E-05	4.755E-05	5.370E-05	5.155E-05	5.308E-05	4.750E-05	4.233E-05	3.804E-05	3.113E-05	2.493E-05	1.861E-05	1.485E-05
4	7.412E-05	8.958E-05	9.708E-05	9.532E-05	8.774E-05	7.791E-05	6.863E-05	6.063E-05	4.949E-05	3.899E-05	2.895E-05	2.294E-05
6	1.907E-04	2.031E-04	2.086E-04	1.916E-04	1.717E-04	1.400E-04	1.181E-04	1.021E-04	8.062E-05	6.162E-05	4.588E-05	3.507E-05
8	3.623E-04	3.760E-04	3.837E-04	3.434E-04	2.810E-04	1.815E-04	1.231E-04	9.076E-05	5.497E-05	3.111E-05	1.610E-05	1.025E-05
10	5.499E-04	4.466E-04	4.740E-04	3.840E-04	2.608E-04	1.757E-04	1.243E-04	8.238E-05	4.951E-05	2.727E-05	1.248E-05	1.873E-05
15	7.676E-04	7.408E-04	4.740E-04	6.214E-04	5.631E-04	-1.199E-03	-2.515E-04	-2.838E-04	-2.951E-04	-2.727E-04	-2.248E-04	-1.873E-04
20	4.694E-04	4.109E-04	-4.247E-03	-5.269E-03	-5.674E-03	-5.811E-03	-5.617E-03	-5.325E-03	-4.714E-03	-3.944E-03	-3.056E-03	-2.481E-03
30	-1.690E-03	-3.076E-03	-1.876E-02	-2.007E-02	-2.430E-02	-1.967E-02	-1.863E-02	-1.731E-02	-1.509E-02	-1.250E-02	-9.620E-03	-7.789E-03
45	-1.435E-02	-3.943E-02	-4.186E-02	-4.321E-02	-4.308E-02	-4.119E-02	-3.863E-02	-3.604E-02	-3.140E-02	-2.601E-02	-2.004E-02	-1.623E-02
60	-3.632E-02	-6.696E-02	-6.995E-02	-7.167E-02	-7.145E-02	-6.849E-02	-6.474E-02	-6.069E-02	-5.325E-02	-4.441E-02	-3.440E-02	-2.793E-02
75	-6.300E-02	-9.380E-02	-9.805E-02	-1.012E-01	-1.014E-01	-9.948E-02	-9.508E-02	-9.007E-02	-8.021E-02	-6.776E-02	-5.305E-02	-4.331E-02
90	-8.904E-02	-1.224E-01	-1.311E-01	-1.400E-01	-1.477E-01	-1.535E-01	-1.574E-01	-1.528E-01	-1.448E-01	-1.297E-01	-1.069E-01	-8.954E-02
120	-1.145E-01	-1.224E-01	-1.311E-01	-1.400E-01	-1.477E-01	-1.535E-01	-1.574E-01	-1.528E-01	-1.448E-01	-1.297E-01	-1.069E-01	-8.954E-02
150	-8.161E-02	-8.910E-02	-9.864E-02	-1.117E-01	-1.227E-01	-1.400E-01	-1.535E-01	-1.574E-01	-1.528E-01	-1.448E-01	-1.297E-01	-1.069E-01
179	-3.604E-03	-3.363E-03	-3.776E-03	-4.385E-03	-4.949E-03	-5.575E-03	-6.931E-03	-7.894E-03	-9.725E-03	-1.239E-02	-1.675E-02	-2.105E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	1.467E-05	1.143E-06	9.760E-07	6.872E-07	4.919E-07	3.329E-07	2.518E-07	1.693E-07	1.275E-07	1.022E-07	7.324E-08	5.136E-08
2	5.763E-06	3.413E-06	3.413E-06	2.508E-06	1.741E-06	1.213E-06	9.176E-07	6.168E-07	4.646E-07	3.726E-07	2.669E-07	1.872E-07
3	1.063E-05	9.300E-06	6.783E-06	4.978E-06	3.527E-06	2.369E-06	1.807E-06	1.214E-06	9.147E-07	7.336E-07	5.255E-07	3.687E-07
4	1.633E-05	1.266E-05	1.035E-05	7.581E-06	5.414E-06	3.697E-06	2.773E-06	1.864E-06	1.404E-06	1.126E-06	8.064E-07	5.657E-07
6	2.469E-05	1.999E-05	1.556E-05	1.139E-05	8.127E-06	5.502E-06	4.195E-06	2.795E-06	2.108E-06	1.688E-06	1.209E-06	8.484E-07
8	2.326E-05	1.782E-05	1.447E-05	1.054E-05	7.494E-06	5.067E-06	3.828E-06	2.572E-06	1.937E-06	1.553E-06	1.112E-06	7.803E-07
10	5.712E-06	3.930E-06	3.004E-06	2.058E-06	1.411E-06	9.335E-07	6.937E-07	4.873E-07	3.511E-07	2.813E-07	2.013E-07	1.412E-07
15	-1.394E-04	-1.091E-04	-8.987E-05	-6.534E-05	-4.757E-05	-3.230E-05	-2.444E-05	-1.644E-05	-1.238E-05	-9.932E-06	-7.115E-06	-4.992E-06
20	-4.677E-04	-3.662E-04	-3.007E-04	-2.216E-04	-1.584E-04	-1.076E-04	-8.147E-05	-5.475E-05	-4.124E-05	-3.307E-05	-2.369E-05	-1.662E-05
30	-1.795E-03	-1.404E-03	-1.152E-03	-8.471E-04	-6.060E-04	-4.110E-04	-2.809E-04	-1.574E-04	-1.263E-04	-9.263E-05	-6.346E-05	-4.346E-05
45	-5.622E-03	-4.392E-03	-3.602E-03	-2.648E-03	-1.894E-03	-1.284E-03	-9.713E-04	-6.531E-04	-4.919E-04	-3.945E-04	-2.826E-04	-1.983E-04
60	-1.177E-02	-9.100E-03	-7.513E-03	-5.523E-03	-3.951E-03	-2.679E-03	-2.026E-03	-1.362E-03	-1.026E-03	-8.230E-04	-5.896E-04	-4.136E-04
75	-2.022E-02	-1.582E-02	-1.268E-02	-9.546E-03	-6.811E-03	-4.632E-03	-3.504E-03	-2.356E-03	-1.775E-03	-1.423E-03	-1.020E-03	-7.153E-04
90	-3.151E-02	-2.408E-02	-2.026E-02	-1.497E-02	-1.067E-02	-7.249E-03	-5.468E-03	-3.688E-03	-2.778E-03	-2.298E-03	-1.596E-03	-1.120E-03
120	-6.667E-02	-5.278E-02	-4.350E-02	-3.224E-02	-2.249E-02	-1.590E-02	-1.190E-02	-8.007E-03	-6.032E-03	-4.839E-03	-3.467E-03	-2.422E-03
150	-1.440E-01	-1.170E-01	-9.614E-02	-7.330E-02	-5.440E-02	-3.763E-02	-2.857E-02	-1.927E-02	-1.453E-02	-1.166E-02	-8.355E-03	-5.862E-03
179	-2.953E-02	-3.740E-02	-4.415E-02	-6.225E-02	-8.514E-02	-1.190E-01	-1.645E-01	-1.825E-01	-1.975E-01	-1.991E-01	-1.841E-01	-1.530E-01

Y (3) SHERMAN FUNCTIONS DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM ENERGY (MEV)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-4.297E-04	1.245E-07	1.592E-01	1.770E-07	1.647E-07	5.580E-08	6.331E-07	8.864E-07	1.542E-06	1.989E-06	1.988E-06	2.835E-06
2	3.756E-07	6.450E-07	2.118E-01	3.593E-07	3.747E-07	1.891E-06	9.626E-07	2.669E-06	5.420E-06	9.496E-06	6.841E-06	1.112E-05
3	-7.846E-07	-4.650E-07	-2.118E-01	-3.428E-07	-3.428E-07	1.687E-06	2.294E-06	9.793E-06	9.467E-06	9.227E-06	1.746E-05	2.766E-05
4	1.534E-04	8.134E-04	1.247E-06	5.008E-06	3.248E-06	-1.174E-06	9.761E-06	1.731E-05	1.049E-05	1.380E-05	3.629E-05	5.803E-05
5	-6.316E-04	-5.342E-06	-3.701E-06	9.053E-06	-3.118E-06	1.078E-05	1.830E-05	1.749E-05	8.444E-06	4.040E-05	1.154E-04	1.649E-04
6	1.166E-05	-2.046E-05	3.224E-05	-2.362E-05	1.140E-05	6.152E-05	4.637E-05	-1.241E-05	2.817E-05	1.215E-04	2.635E-04	3.354E-04
7	-7.267E-07	1.931E-05	3.156E-05	-3.016E-05	1.672E-05	9.845E-05	9.323E-07	-8.802E-05	1.082E-04	2.805E-04	4.806E-04	5.568E-04
8	-1.766E-07	-1.315E-05	-1.314E-04	2.633E-04	1.943E-04	-5.366E-04	5.339E-06	9.977E-04	1.183E-04	7.122E-04	1.212E-03	1.169E-03
9	-1.905E-07	-2.554E-04	3.404E-04	-1.514E-03	-3.015E-04	1.101E-03	7.116E-03	4.229E-03	3.863E-03	2.049E-03	1.855E-03	1.487E-03
10	-4.554E-04	-3.708E-03	1.050E-03	4.981E-03	7.870E-03	8.811E-03	7.419E-03	4.053E-03	2.891E-03	4.560E-03	9.374E-03	-1.238E-02
11	-2.521E-03	7.297E-03	1.209E-02	1.255E-02	9.019E-03	4.889E-02	-2.433E-02	-1.889E-02	-2.423E-02	-2.423E-02	-3.074E-02	-3.446E-02
12	1.536E-07	1.598E-02	1.090E-02	-5.013E-02	-9.604E-03	-1.665E-02	-2.655E-02	-3.591E-02	-4.513E-02	-5.046E-02	-5.795E-02	-7.234E-02
13	0.132E-07	3.716E-03	1.464E-02	-2.927E-02	3.854E-02	-7.451E-02	-5.405E-02	-6.244E-02	-7.102E-02	-7.664E-02	-8.403E-02	-8.809E-02
14	-0.564E-07	-5.372E-02	-5.918E-02	-6.609E-02	-7.844E-02	-7.456E-02	-8.024E-02	-8.648E-02	-9.396E-02	-9.956E-02	-1.075E-01	-1.142E-01
15	-3.653E-07	-3.955E-02	-4.180E-02	-4.548E-02	-4.957E-02	-5.058E-02	-5.433E-02	-5.867E-02	-6.413E-02	-6.840E-02	-7.510E-02	-8.046E-02
16	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
17	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
18	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
19	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
20	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
21	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
22	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
23	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
24	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
25	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
26	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
27	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
28	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
29	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
30	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
31	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
32	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
33	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
34	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
35	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
36	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
37	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
38	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
39	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
40	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
41	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
42	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
43	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
44	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
45	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
46	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
47	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
48	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
49	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
50	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
51	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
52	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
53	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
54	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
55	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
56	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
57	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
58	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
59	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
60	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
61	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
62	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
63	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
64	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
65	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
66	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
67	-1.257E-03	-1.379E-03	-1.474E-03	-1.614E-03	-1.737E-03	-1.813E-03	-1.958E-03	-2.127E-03	-2.339E-03	-2.506E-03	-2.770E-03	-2.986E-03
68	-1.2											

2R (40) SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM ENERGY (MEV)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-1.006E-07	-3.079E-08	1.225E-07	-5.886E-08	1.840E-07	2.011E-07	3.745E-07	6.123E-07	1.132E-06	1.533E-06	2.430E-06	2.510E-06
2	-8.835E-08	2.098E-07	-2.949E-08	5.915E-07	1.945E-07	1.578E-06	1.028E-06	2.533E-06	5.382E-06	5.957E-06	6.674E-06	1.081E-05
3	-7.304E-08	3.920E-07	1.324E-06	-6.685E-07	3.888E-06	2.615E-06	1.501E-06	9.501E-06	1.049E-05	9.450E-06	1.647E-05	2.699E-05
4	-2.923E-07	-1.682E-06	3.284E-06	3.304E-06	5.623E-06	-8.297E-07	7.606E-06	1.842E-05	1.177E-05	1.293E-05	3.373E-05	5.610E-05
6	-1.941E-06	1.031E-05	-8.103E-06	1.444E-05	-9.674E-06	4.014E-06	3.945E-05	2.297E-05	6.259E-06	3.413E-05	1.092E-04	1.628E-04
8	-6.133E-07	-2.057E-05	2.446E-05	-1.818E-05	1.664E-06	5.525E-05	5.866E-05	-7.371E-06	1.585E-05	1.060E-04	2.568E-04	3.383E-04
10	4.006E-05	-2.907E-06	5.070E-05	-4.619E-05	7.210E-05	1.176E-04	2.188E-05	-5.517E-05	8.085E-05	2.587E-04	4.806E-04	5.722E-04
15	-6.242E-05	5.128E-05	-1.436E-04	2.482E-04	2.036E-04	-4.504E-05	-2.447E-04	4.472E-05	6.657E-04	1.029E-03	1.266E-03	1.247E-03
20	2.862E-04	-3.342E-04	2.880E-04	3.253E-04	-3.363E-04	-5.740E-04	-1.365E-04	8.884E-04	1.851E-03	2.138E-03	2.011E-03	1.658E-03
30	-3.986E-04	1.325E-03	-1.161E-03	-1.637E-03	-7.322E-04	7.546E-04	3.034E-03	4.374E-03	4.215E-03	3.293E-03	1.409E-03	-6.280E-05
45	-1.854E-04	-4.013E-03	-1.874E-03	4.448E-03	7.881E-03	9.020E-03	8.213E-03	4.959E-03	-1.658E-04	-4.000E-03	-9.081E-03	-1.227E-02
60	-3.833E-03	6.373E-03	1.207E-02	1.363E-02	1.044E-02	6.372E-03	-1.175E-03	-9.617E-03	-1.961E-02	-2.430E-02	-3.125E-02	-3.542E-02
75	1.552E-02	1.744E-02	1.285E-02	1.345E-03	-8.232E-02	-1.567E-02	-2.624E-02	-3.626E-02	-4.612E-02	-5.273E-02	-5.975E-02	-6.437E-02
90	1.261E-02	-1.680E-03	-1.105E-02	-2.881E-02	-3.881E-02	-4.586E-02	-5.541E-02	-6.438E-02	-7.348E-02	-7.940E-02	-8.715E-02	-9.224E-02
120	-4.686E-02	-5.576E-02	-6.137E-02	-6.870E-02	-7.371E-02	-7.759E-02	-8.353E-02	-9.004E-02	-9.784E-02	-1.037E-01	-1.124E-01	-1.183E-01
150	-3.807E-02	-4.120E-02	-4.362E-02	-4.735E-02	-5.074E-02	-5.264E-02	-5.653E-02	-6.105E-02	-6.675E-02	-7.120E-02	-7.819E-02	-8.378E-02
179	-1.307E-03	-1.433E-03	-1.530E-03	-1.677E-03	-1.791E-03	-1.884E-03	-2.036E-03	-2.211E-03	-2.432E-03	-2.607E-03	-2.883E-03	-3.109E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	3.373E-06	4.247E-06	5.380E-06	6.140E-06	6.360E-06	6.149E-06	5.724E-06	5.286E-06	4.528E-06	3.690E-06	2.771E-06	2.229E-06
2	1.343E-05	1.940E-05	2.350E-05	2.611E-05	2.613E-05	2.407E-05	2.210E-05	2.016E-05	1.701E-05	1.373E-05	1.035E-05	8.249E-06
3	3.604E-05	4.814E-05	5.675E-05	5.931E-05	5.788E-05	5.233E-05	4.699E-05	4.239E-05	3.530E-05	2.799E-05	2.094E-05	1.673E-05
4	7.282E-05	9.249E-05	1.034E-04	1.041E-04	9.909E-05	8.726E-05	7.695E-05	6.865E-05	5.640E-05	4.444E-05	3.305E-05	2.631E-05
6	1.953E-04	2.243E-04	2.306E-04	2.153E-04	1.957E-04	1.621E-04	1.381E-04	1.202E-04	9.569E-05	7.366E-05	5.359E-05	4.227E-05
8	3.778E-04	3.985E-04	3.802E-04	3.302E-04	2.846E-04	2.201E-04	1.782E-04	1.495E-04	1.132E-04	8.339E-05	5.848E-05	4.531E-05
10	6.016E-04	5.886E-04	5.221E-04	4.161E-04	3.353E-04	2.321E-04	1.717E-04	1.334E-04	8.935E-05	5.789E-05	3.577E-05	2.584E-05
15	1.153E-03	9.867E-04	6.424E-04	3.223E-04	1.264E-04	-8.178E-05	-1.761E-04	-2.202E-04	-2.462E-04	-2.358E-04	-1.986E-04	-1.668E-04
20	1.302E-03	7.097E-04	9.470E-05	-5.006E-04	-8.215E-04	-1.105E-03	-1.187E-03	-1.190E-03	-1.115E-03	-9.677E-04	-7.686E-04	-6.304E-04
30	-1.181E-03	-2.728E-03	-4.097E-03	-5.219E-03	-5.094E-03	-5.899E-03	-5.728E-03	-5.444E-03	-4.832E-03	-4.049E-03	-3.161E-03	-2.551E-03
45	-1.446E-02	-1.724E-02	-1.945E-02	-2.093E-02	-2.174E-02	-2.059E-02	-1.940E-02	-1.813E-02	-1.581E-02	-1.309E-02	-1.007E-02	-8.155E-03
60	-3.822E-02	-4.171E-02	-4.434E-02	-4.579E-02	-4.563E-02	-4.358E-02	-4.084E-02	-3.808E-02	-3.314E-02	-2.744E-02	-2.112E-02	-1.711E-02
75	-6.755E-02	-7.163E-02	-7.480E-02	-7.653E-02	-7.620E-02	-7.304E-02	-6.878E-02	-6.440E-02	-5.643E-02	-4.700E-02	-3.637E-02	-2.952E-02
90	-9.594E-02	-1.010E-01	-1.054E-01	-1.086E-01	-1.091E-01	-1.062E-01	-1.013E-01	-9.56E-02	-8.520E-02	-7.166E-02	-5.619E-02	-4.584E-02
120	-1.242E-01	-1.326E-01	-1.410E-01	-1.521E-01	-1.584E-01	-1.649E-01	-1.657E-01	-1.635E-01	-1.545E-01	-1.381E-01	-1.135E-01	-9.496E-02
150	-8.858E-02	-9.675E-02	-1.070E-01	-1.210E-01	-1.328E-01	-1.519E-01	-1.666E-01	-1.779E-01	-1.928E-01	-2.013E-01	-1.958E-01	-1.811E-01
179	-3.306E-03	-3.650E-03	-4.098E-03	-4.757E-03	-5.359E-03	-6.475E-03	-7.530E-03	-8.549E-03	-1.053E-02	-1.341E-02	-1.812E-02	-2.277E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	1.600E-06	1.247E-06	1.022E-06	7.502E-07	5.363E-07	3.635E-07	2.749E-07	1.848E-07	1.392E-07	1.116E-07	7.997E-08	5.610E-08
2	5.949E-06	4.631E-06	3.791E-06	2.782E-06	1.988E-06	1.347E-06	1.019E-06	6.849E-07	5.158E-07	4.137E-07	2.963E-07	2.079E-07
3	1.194E-05	9.282E-06	7.039E-06	5.570E-06	3.987E-06	2.696E-06	2.039E-06	1.370E-06	1.032E-06	8.278E-07	5.930E-07	4.160E-07
4	1.872E-05	1.454E-05	1.189E-05	8.713E-06	6.222E-06	4.215E-06	3.187E-06	2.142E-06	1.613E-06	1.294E-06	9.269E-07	6.503E-07
6	2.983E-05	2.309E-05	1.885E-05	1.379E-05	9.840E-06	6.663E-06	5.037E-06	3.385E-06	2.549E-06	2.045E-06	1.465E-06	1.027E-06
8	3.147E-05	2.419E-05	1.968E-05	1.435E-05	1.022E-05	6.914E-06	5.225E-06	3.511E-06	2.644E-06	2.120E-06	1.519E-06	1.065E-06
10	1.676E-05	1.250E-05	1.000E-05	7.183E-06	5.070E-06	3.412E-06	2.573E-06	1.727E-06	1.300E-06	1.042E-06	7.462E-07	5.234E-07
15	-1.242E-04	-9.817E-05	-8.098E-05	-5.984E-05	-4.294E-05	-2.916E-05	-2.207E-05	-1.485E-05	-8.971E-06	-6.427E-06	-4.509E-06	-3.093E-06
20	-4.600E-04	-3.610E-04	-2.967E-04	-2.185E-04	-1.565E-04	-1.062E-04	-8.032E-05	-5.401E-05	-4.068E-05	-3.263E-05	-2.338E-05	-1.640E-05
30	-1.847E-03	-1.444E-03	-1.185E-03	-8.715E-04	-6.235E-04	-4.228E-04	-3.198E-04	-2.473E-04	-1.620E-04	-1.299E-04	-9.307E-05	-6.529E-05
45	-5.886E-03	-4.599E-03	-3.771E-03	-2.772E-03	-1.983E-03	-1.344E-03	-1.017E-03	-8.837E-04	-5.150E-04	-4.130E-04	-2.959E-04	-2.076E-04
60	-1.235E-02	-9.650E-03	-7.914E-03	-5.818E-03	-4.162E-03	-2.822E-03	-2.134E-03	-1.435E-03	-1.081E-03	-8.669E-04	-6.210E-04	-4.357E-04
75	-2.136E-02	-1.671E-02	-1.371E-02	-1.008E-02	-7.214E-03	-4.892E-03	-3.701E-03	-2.488E-03	-1.874E-03	-1.503E-03	-1.077E-03	-7.554E-04
90	-3.332E-02	-2.611E-02	-2.144E-02	-1.578E-02	-1.130E-02	-7.665E-03	-5.798E-03	-3.899E-03	-2.937E-03	-2.356E-03	-1.687E-03	-1.184E-03
120	-7.063E-02	-5.589E-02	-4.613E-02	-3.412E-02	-2.449E-02	-1.664E-02	-1.260E-02	-8.473E-03	-6.383E-03	-5.120E-03	-3.688E-03	-2.573E-03
150	-1.494E-01	-1.241E-01	-1.051E-01	-7.976E-02	-5.817E-02	-3.983E-02	-2.824E-02	-2.039E-02	-1.537E-02	-1.234E-02	-8.841E-03	-6.204E-03
179	-3.194E-02	-4.099E-02	-4.991E-02	-6.730E-02	-9.199E-02	-1.284E-01	-1.579E-01	-1.961E-01	-2.116E-01	-2.128E-01	-1.962E-01	-1.625E-01

NB (4)

SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM

ENERGY (MEV)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-1.269E-07	-7.216E-08	-6.155E-08	-8.764E-08	1.876E-07	4.574E-08	3.424E-07	4.658E-07	1.468E-06	2.040E-06	2.042E-06	2.879E-06
2	-1.388E-07	-1.449E-07	8.172E-08	8.203E-07	9.490E-08	1.415E-06	1.192E-06	2.196E-06	5.732E-06	6.276E-06	6.570E-06	1.051E-05
3	1.023E-06	1.068E-06	6.180E-07	-8.141E-07	3.422E-06	3.588E-06	5.565E-07	8.737E-06	1.117E-05	9.701E-06	1.546E-05	2.582E-05
4	-1.938E-06	-2.364E-06	4.624E-06	1.094E-06	7.694E-06	-3.609E-06	5.351E-06	1.965E-05	1.341E-05	1.249E-05	3.127E-05	5.289E-05
6	4.212E-05	1.253E-05	-9.937E-05	1.873E-05	-8.1159E-06	-1.629E-06	8.861E-05	2.914E-05	5.332E-06	2.780E-05	1.025E-04	1.598E-04
8	-1.266E-05	-1.404E-05	1.582E-05	-8.624E-06	-1.103E-05	4.610E-05	6.968E-05	3.385E-07	4.074E-06	9.044E-05	2.482E-04	3.396E-04
10	4.328E-05	-2.506E-05	6.369E-05	-5.608E-05	5.117E-05	1.226E-04	4.497E-05	3.775E-05	5.346E-05	2.340E-04	4.766E-04	5.848E-04
15	-1.114E-04	1.130E-04	-1.743E-04	2.142E-04	2.589E-04	1.739E-05	2.562E-04	7.612E-05	6.104E-04	1.017E-03	1.314E-03	1.323E-03
20	3.388E-04	-3.728E-04	1.670E-04	4.462E-04	-2.376E-04	-8.851E-04	-2.754E-04	7.187E-05	1.842E-03	2.217E-03	2.164E-03	1.833E-03
30	7.057E-04	1.413E-03	3.429E-03	2.668E-03	1.695E-03	3.833E-04	8.849E-03	5.485E-03	4.557E-03	3.702E-03	1.806E-03	2.807E-04
40	6.474E-04	-1.170E-03	3.807E-03	3.807E-03	7.741E-03	9.346E-03	8.900E-03	5.895E-03	6.555E-04	1.823E-02	-8.731E-03	1.212E-02
60	5.089E-03	5.276E-03	1.818E-02	1.463E-02	1.491E-02	7.912E-03	1.850E-04	-8.040E-03	1.823E-02	-2.430E-02	-3.613E-02	3.161E-02
75	1.522E-02	1.879E-02	3.315E-02	3.315E-02	-6.644E-03	-1.453E-02	2.580E-02	3.651E-02	4.705E-02	-3.352E-02	-6.152E-02	-6.639E-02
90	1.493E-02	1.529E-02	-1.544E-02	-2.819E-02	3.691E-02	-6.648E-02	-5.671E-02	6.627E-02	-7.592E-02	-8.217E-02	-9.029E-02	-9.560E-02
120	-4.802E-02	-5.758E-02	-6.450E-02	-7.133E-02	-7.664E-02	-8.067E-02	-8.671E-02	-9.366E-02	-1.018E-01	-1.078E-01	-1.169E-01	-1.237E-01
150	-3.963E-02	-4.288E-02	-4.538E-02	-4.925E-02	-5.225E-02	-5.473E-02	-5.877E-02	-6.347E-02	-6.940E-02	-7.404E-02	-8.132E-02	-8.715E-01
179	-1.357E-03	-1.488E-03	-1.588E-03	-1.741E-03	-1.859E-03	-1.937E-03	-2.114E-03	-2.296E-03	-2.527E-03	-2.709E-03	-2.998E-03	-3.233E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	3.372E-06	4.359E-06	5.422E-06	6.247E-06	6.505E-06	6.333E-06	5.915E-06	5.474E-06	4.698E-06	3.835E-06	2.916E-06	2.347E-06
2	1.306E-05	1.928E-05	2.317E-05	2.623E-05	2.694E-05	2.499E-05	2.312E-05	2.104E-05	1.780E-05	1.433E-05	1.048E-05	8.723E-06
3	3.517E-05	4.815E-05	5.554E-05	6.123E-05	6.016E-05	5.475E-05	4.932E-05	4.457E-05	3.720E-05	2.973E-05	2.212E-05	1.769E-05
4	7.156E-05	9.333E-05	1.062E-04	1.083E-04	1.073E-04	9.195E-05	8.137E-05	7.274E-05	5.991E-05	4.706E-05	3.527E-05	2.786E-05
6	1.961E-04	2.303E-04	2.402E-04	2.271E-04	2.079E-04	1.738E-04	1.482E-04	1.296E-04	1.036E-04	7.997E-05	5.832E-05	4.606E-05
8	3.866E-04	4.154E-04	4.025E-04	3.536E-04	3.072E-04	2.404E-04	1.962E-04	1.656E-04	1.264E-04	9.382E-05	6.623E-05	5.149E-05
10	6.247E-04	6.222E-04	5.403E-04	4.538E-04	3.704E-04	2.622E-04	1.971E-04	1.563E-04	1.079E-04	7.282E-05	4.647E-05	3.433E-05
15	1.241E-03	1.023E-03	7.320E-04	3.992E-04	1.927E-04	3.014E-05	1.337E-04	1.842E-04	-2.118E-04	-2.148E-04	-1.835E-04	-1.550E-04
20	8.892E-04	-2.521E-03	-3.978E-04	-3.978E-04	-7.401E-04	-0.049E-03	-1.145E-03	-1.156E-03	-1.091E-03	-0.516E-04	-7.579E-04	-6.225E-04
30	-1.443E-02	-1.740E-02	-1.975E-02	-2.132E-02	-2.167E-02	-2.103E-02	-1.982E-02	-1.853E-02	-1.615E-02	-1.318E-02	-1.029E-02	-8.334E-03
60	-3.910E-02	-6.278E-02	-4.555E-02	-4.706E-02	-4.690E-02	-4.788E-02	-4.134E-02	-3.909E-02	-3.401E-02	-2.815E-02	-2.166E-02	-1.754E-02
75	-6.973E-02	-7.397E-02	-7.724E-02	-7.898E-02	-7.859E-02	-7.525E-02	-7.081E-02	-6.627E-02	-5.803E-02	-4.840E-02	-3.736E-02	-3.032E-02
90	-9.944E-02	-1.047E-01	-1.124E-01	-1.124E-01	-1.127E-01	-1.097E-01	-1.045E-01	-9.878E-02	-8.772E-02	-7.393E-02	-5.777E-02	-4.711E-02
120	-1.291E-01	-1.378E-01	-1.092E-01	-1.078E-01	-1.078E-01	-1.070E-01	-1.045E-01	-1.089E-01	-1.1594E-01	-1.423E-01	-1.168E-01	-9.769E-02
150	-4.214E-02	-1.006E-01	-1.112E-01	-1.258E-01	-1.346E-01	-1.576E-01	-1.728E-01	-1.844E-01	-1.996E-01	-2.041E-01	-2.021E-01	-1.867E-01
179	-3.438E-03	-3.797E-03	-4.263E-03	-4.948E-03	-5.573E-03	-6.732E-03	-7.827E-03	-8.885E-03	-1.094E-02	-1.394E-02	-1.883E-02	-2.365E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	1.667E-06	1.299E-06	1.064E-06	7.815E-07	5.587E-07	3.787E-07	2.864E-07	1.925E-07	1.450E-07	1.163E-07	8.332E-08	5.845E-08
2	1.968E-06	4.824E-06	3.950E-06	2.899E-06	2.071E-06	1.404E-06	1.062E-06	7.137E-07	5.375E-07	4.311E-07	3.088E-07	2.166E-07
3	1.263E-05	9.820E-06	8.035E-06	5.893E-06	4.210E-06	2.853E-06	2.157E-06	1.450E-06	1.092E-06	8.799E-07	6.275E-07	4.402E-07
4	1.983E-05	1.541E-05	1.260E-05	9.298E-06	6.648E-06	4.498E-06	3.401E-06	2.286E-06	1.722E-06	1.381E-06	9.893E-07	6.940E-07
6	3.254E-05	2.519E-05	2.057E-05	1.506E-05	1.074E-05	7.274E-06	5.699E-06	3.696E-06	2.784E-06	2.232E-06	1.599E-06	1.122E-06
8	3.588E-05	2.761E-05	2.247E-05	1.640E-05	1.164E-05	7.904E-06	5.974E-06	4.014E-06	3.023E-06	2.244E-06	1.736E-06	1.218E-06
10	2.278E-05	1.717E-05	1.382E-05	9.990E-06	7.064E-06	4.764E-06	3.596E-06	2.414E-06	1.817E-06	1.457E-06	1.043E-06	7.320E-06
15	-1.158E-05	-1.055E-05	-7.666E-06	-5.590E-06	-4.017E-06	-2.729E-06	-2.065E-06	-1.389E-06	-1.047E-06	-8.395E-06	-6.015E-06	-4.220E-06
20	-4.546E-04	-3.509E-04	-2.934E-04	-2.161E-04	-1.548E-04	-1.050E-04	-7.944E-05	-5.762E-05	-4.024E-05	-3.288E-05	-2.312E-05	-1.622E-05
30	-1.869E-03	-1.462E-03	-1.200E-03	-8.822E-04	-6.313E-04	-4.039E-04	-3.238E-04	-2.177E-04	-1.640E-04	-1.315E-04	-9.423E-05	-6.610E-05
40	-6.693E-03	-3.554E-03	-2.833E-03	-2.833E-03	-2.017E-03	-1.374E-03	-1.039E-03	-6.986E-04	-5.262E-04	-4.220E-04	-3.023E-04	-2.121E-04
60	-1.266E-02	-8.114E-02	-5.964E-02	-5.964E-02	-4.264E-02	-2.893E-02	-1.789E-02	-1.471E-02	-1.108E-02	-8.847E-03	-6.366E-03	-4.466E-03
75	-2.194E-02	-1.407E-02	-1.035E-02	-7.406E-02	-5.022E-02	-3.199E-02	-2.1554E-02	-1.924E-02	-1.543E-02	-1.105E-02	-7.165E-03	-4.755E-03
90	-3.424E-02	-2.682E-02	-2.203E-02	-1.621E-02	-1.141E-02	-7.813E-03	-5.956E-03	-4.005E-03	-3.017E-03	-2.420E-03	-1.733E-03	-1.216E-03
120	-7.262E-02	-5.745E-02	-4.742E-02	-3.507E-02	-2.517E-02	-1.710E-02	-1.249E-02	-8.707E-03	-6.559E-03	-4.241E-03	-2.644E-03	-1.644E-03
150	-1.538E-01	-1.277E-01	-1.081E-01	-8.200E-02	-5.817E-02	-4.093E-02	-3.108E-02	-2.096E-02	-1.580E-02	-1.268E-02	-9.046E-03	-6.375E-03
179	-3.318E-02	-4.258E-02	-5.184E-02	-6.989E-02	-9.551E-02	-1.333E-01	-1.638E-01	-2.030E-01	-2.188E-01	-2.198E-01	-2.022E-01	-1.674E-01

MO	(42)	SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)				
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02			
DEG																
1	-1.033E-07	6.690E-08	2.539E-08	1.969E-07	2.363E-07	7.877E-08	5.614E-07	6.364E-07	1.423E-06	2.046E-06	2.557E-06	2.915E-06	2.915E-06			
2	-2.011E-07	-1.388E-07	2.841E-07	1.230E-06	1.000E-07	1.137E-06	1.820E-06	5.525E-06	6.498E-06	6.531E-06	1.023E-05	1.023E-05	1.023E-05			
3	1.581E-06	1.981E-06	-1.755E-08	7.976E-09	2.805E-06	4.160E-06	5.707E-07	7.840E-06	1.203E-05	1.034E-05	1.473E-05	2.531E-05	2.531E-05			
4	-2.199E-06	-1.937E-06	4.842E-06	-8.155E-07	8.292E-06	1.587E-06	3.094E-06	1.979E-05	1.533E-05	1.250E-05	2.879E-05	5.173E-05	5.173E-05			
6	8.951E-06	1.145E-05	-8.700E-06	2.043E-05	-4.669E-06	-6.736E-06	3.613E-05	3.567E-05	5.738E-06	2.022E-05	9.529E-05	1.558E-04	1.558E-04			
8	-1.936E-05	-2.763E-06	2.511E-06	3.899E-06	-2.384E-05	3.355E-05	7.847E-05	1.049E-05	-5.024E-06	7.386E-05	2.379E-04	3.387E-04	3.387E-04			
10	3.309E-05	-4.137E-05	6.741E-05	-5.772E-05	2.147E-05	1.210E-04	6.993E-05	-3.515E-05	2.701E-05	2.068E-04	4.689E-04	5.943E-04	5.943E-04			
15	-1.344E-04	1.621E-04	-1.618E-04	1.638E-04	3.039E-04	8.592E-05	-2.533E-04	-9.778E-05	5.467E-04	9.955E-04	1.355E-03	1.396E-03	1.396E-03			
20	3.356E-04	-3.648E-04	2.939E-05	5.495E-04	-1.171E-04	-5.681E-04	-4.044E-04	6.198E-04	1.814E-03	2.279E-03	2.314E-03	2.009E-03	2.009E-03			
30	-4.476E-04	1.405E-03	7.040E-04	-1.682E-03	-1.384E-03	-5.518E-06	2.616E-03	4.549E-03	4.886E-03	4.116E-03	2.222E-03	6.477E-04	6.477E-04			
45	1.498E-03	-4.161E-03	-3.413E-03	3.067E-03	7.564E-03	9.582E-03	9.735E-03	6.854E-03	1.533E-03	-2.654E-03	-8.323E-03	-1.192E-02	-1.192E-02			
60	-6.243E-03	4.022E-03	1.147E-02	1.553E-02	1.335E-02	9.499E-03	1.641E-03	-7.637E-03	-1.776E-02	-2.422E-02	-3.210E-02	-3.680E-02	-3.680E-02			
75	1.466E-02	2.001E-02	1.671E-02	5.400E-03	-4.949E-02	-1.323E-02	-2.521E-02	-3.666E-02	-4.790E-02	-5.448E-02	-6.326E-02	-6.839E-02	-6.839E-02			
90	1.726E-02	2.856E-03	-9.714E-03	-2.740E-02	-3.884E-02	-4.698E-02	-5.794E-02	-6.813E-02	-7.836E-02	-8.494E-02	-9.346E-02	-9.899E-02	-9.899E-02			
120	-4.912E-02	-5.938E-02	-6.570E-02	-1.398E-02	-7.951E-02	-8.379E-02	-9.026E-02	-9.733E-02	-1.058E-01	-1.121E-01	-1.214E-01	-1.285E-01	-1.285E-01			
150	-4.122E-02	-4.458E-02	-4.718E-02	-5.118E-02	-5.429E-02	-5.686E-02	-6.105E-02	-6.592E-02	-7.208E-02	-7.691E-02	-8.449E-02	-9.055E-02	-9.055E-02			
179	-1.408E-03	-1.544E-03	-1.640E-03	-1.806E-03	-1.929E-03	-2.030E-03	-2.193E-03	-2.383E-03	-2.623E-03	-2.812E-03	-3.113E-03	-3.359E-03	-3.359E-03			
		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00			
DEG																
1	3.376E-06	4.349E-06	5.441E-06	6.262E-06	6.639E-06	6.507E-06	6.099E-06	5.656E-06	4.865E-06	3.978E-06	3.028E-06	2.438E-06	2.438E-06			
2	1.266E-05	1.838E-05	2.411E-05	2.736E-05	2.774E-05	2.587E-05	2.404E-05	2.184E-05	1.858E-05	1.502E-05	1.131E-05	9.134E-06	9.134E-06			
3	3.417E-05	4.789E-05	5.819E-05	6.295E-05	6.235E-05	5.713E-05	5.164E-05	4.676E-05	3.906E-05	3.127E-05	2.332E-05	1.865E-05	1.865E-05			
4	7.004E-05	9.378E-05	1.080E-04	1.125E-04	1.083E-04	9.663E-05	8.581E-05	7.687E-05	6.347E-05	5.030E-05	3.717E-05	2.993E-05	2.993E-05			
6	1.959E-04	2.354E-04	2.647E-04	2.389E-04	2.201E-04	1.853E-04	1.548E-04	1.390E-04	1.117E-04	8.647E-05	6.321E-05	4.997E-05	4.997E-05			
8	3.928E-04	4.310E-04	4.240E-04	3.773E-04	3.303E-04	2.612E-04	2.147E-04	1.822E-04	1.401E-04	1.047E-04	7.431E-05	5.793E-05	5.793E-05			
10	6.455E-04	6.549E-04	5.987E-04	4.920E-04	4.074E-04	2.939E-04	2.249E-04	1.804E-04	1.275E-04	8.771E-05	5.429E-05	3.29E-05	3.29E-05			
15	1.329E-03	1.119E-03	8.250E-04	4.801E-04	2.629E-04	2.505E-05	-8.819E-05	-1.453E-04	-1.881E-04	-1.919E-04	-1.671E-04	-1.421E-04	-1.421E-04			
20	1.658E-03	1.040E-03	3.740E-04	-2.867E-04	-6.251E-04	-9.867E-04	-1.097E-03	-1.118E-03	-1.064E-03	-9.324E-04	-7.450E-04	-6.126E-04	-6.126E-04			
30	-5.748E-04	-2.291E-03	-3.827E-03	-5.103E-03	-5.063E-03	-5.943E-03	-5.803E-03	-5.532E-03	-4.924E-03	-4.134E-03	-3.211E-03	-2.610E-03	-2.610E-03			
45	-1.439E-02	-1.753E-02	-2.002E-02	-2.170E-02	-2.209E-02	-2.146E-02	-2.032E-02	-1.891E-02	-1.649E-02	-1.366E-02	-1.051E-02	-8.09E-03	-8.09E-03			
60	-3.995E-02	-4.383E-02	-4.674E-02	-4.832E-02	-4.814E-02	-4.596E-02	-4.304E-02	-4.010E-02	-3.488E-02	-2.885E-02	-2.220E-02	-1.797E-02	-1.797E-02			
75	-7.189E-02	-7.631E-02	-7.969E-02	-8.144E-02	-8.098E-02	-7.747E-02	-7.285E-02	-6.814E-02	-5.962E-02	-4.960E-02	-3.834E-02	-3.111E-02	-3.111E-02			
90	-1.030E-01	-1.084E-01	-1.130E-01	-1.161E-01	-1.164E-01	-1.131E-01	-1.077E-01	-1.017E-01	-9.024E-02	-7.599E-02	-5.935E-02	-4.839E-02	-4.839E-02			
120	-1.342E-01	-1.431E-01	-1.520E-01	-1.636E-01	-1.707E-01	-1.766E-01	-1.770E-01	-1.743E-01	-1.644E-01	-1.465E-01	-1.202E-01	-1.004E-01	-1.004E-01			
150	-4.575E-02	-1.046E-01	-1.156E-01	-1.306E-01	-1.479E-01	-1.635E-01	-1.791E-01	-1.910E-01	-2.065E-01	-2.150E-01	-2.084E-01	-1.923E-01	-1.923E-01			
179	-3.572E-03	-3.945E-03	-4.431E-03	-5.142E-03	-5.790E-03	-6.993E-03	-8.129E-03	-9.227E-03	-1.136E-02	-1.447E-02	-1.954E-02	-2.455E-02	-2.455E-02			
		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02			
DEG																
1	1.752E-06	1.366E-06	1.119E-06	8.217E-07	5.875E-07	3.982E-07	3.012E-07	2.025E-07	1.525E-07	1.223E-07	8.761E-08	6.146E-08	6.146E-08			
2	6.542E-06	5.094E-06	4.171E-06	3.061E-06	2.188E-06	1.483E-06	1.121E-06	7.537E-07	5.677E-07	4.553E-07	3.262E-07	2.288E-07	2.288E-07			
3	1.332E-05	1.036E-05	8.681E-06	6.221E-06	4.445E-06	3.012E-06	2.277E-06	1.531E-06	1.153E-06	9.247E-07	6.624E-07	4.647E-07	4.647E-07			
4	2.127E-05	1.643E-05	1.154E-05	9.926E-06	7.089E-06	4.803E-06	3.632E-06	2.441E-06	1.838E-06	1.474E-06	1.056E-06	7.410E-07	7.410E-07			
6	3.533E-05	2.737E-05	2.235E-05	1.636E-05	1.184E-05	7.906E-06	5.977E-06	4.018E-06	3.026E-06	2.427E-06	1.738E-06	1.219E-06	1.219E-06			
8	4.045E-05	3.117E-05	2.539E-05	1.854E-05	1.371E-05	8.938E-06	6.756E-06	4.540E-06	3.419E-06	2.742E-06	1.964E-06	1.378E-06	1.378E-06			
10	2.914E-05	2.210E-05	1.785E-05	1.293E-05	9.175E-06	6.192E-06	4.675E-06	3.140E-06	2.364E-06	1.895E-06	1.358E-06	9.523E-07	9.523E-07			
15	-1.067E-04	-8.466E-05	-6.906E-05	-5.179E-05	-3.719E-05	-2.527E-05	-1.913E-05	-1.287E-05	-9.697E-06	-7.778E-06	-5.572E-06	-3.909E-06	-3.909E-06			
20	-4.479E-04	-3.517E-04	-2.892E-04	-2.131E-04	-1.524E-04	-1.036E-04	-7.835E-05	-5.269E-05	-3.969E-05	-3.183E-05	-2.280E-05	-1.600E-05	-1.600E-05			
30	-1.896E-03	-1.478E-03	-1.213E-03	-8.920E-04	-6.387E-04	-4.329E-04	-3.274E-04	-2.202E-04	-1.658E-04	-1.330E-04	-9.528E-05	-6.684E-05	-6.684E-05			
45	-6.141E-03	-4.798E-03	-3.935E-03	-2.899E-03	-2.069E-03	-1.403E-03	-1.031E-03	-7.133E-04	-5.372E-04	-4.309E-04	-3.087E-04	-2.165E-04	-2.165E-04			
60	-1.297E-02	-1.013E-02	-8.112E-03	-6.109E-03	-4.370E-03	-2.963E-03	-2.241E-03	-1.507E-03	-1.135E-03	-9.103E-04	-6.521E-04	-4.575E-04	-4.575E-04			
75	-2.251E-02	-1.760E-02	-1.444E-02	-1.062E-02	-7.347E-03	-5.152E-03	-3.897E-03	-2.620E-03	-1.973E-03	-1.583E-03	-1.134E-03	-7.955E-04	-7.955E-04			
90	-3.515E-02	-2.754E-02	-2.261E-02	-1.664E-02	-1.191E-02	-8.082E-03	-6.114E-03	-4.111E-03	-3.097E-03	-2.484E-03	-1.779E-03	-1.248E-03	-1.248E-03			
120	-7.462E-02	-5.902E-02	-4.871E-02	-3.601E-02	-2.345E-02	-1.756E-02	-1.329E-02	-8.941E-03	-6.736E-03	-5.403E-03	-3.871E-03	-2.716E-03	-2.716E-03			
150	-1.583E-01	-1.313E-01	-1.111E-01	-8.425E-02	-6.134E-02	-4.204E-02	-3.192E-02	-2.152E-02	-1.623E-02	-1.302E-02	-9.331E-03	-6.547E-03	-6.547E-03			
179	-3.444E-02	-4.419E-02	-5.780E-02	-7.253E-02	-9.980E-02	-1.362E-01	-1.697E-01	-2.101E-01	-2.261E-01	-2.268E-01	-2.083E-01	-1.722E-01	-1.722E-01			

TC (4)	SMEKMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)			
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02		
1	1.220E-07	-6.340E-08	1.220E-07	-5.348E-08	2.278E-07	2.353E-07	2.341E-07	1.004E-06	1.380E-06	2.038E-06	2.624E-06	2.518E-06		
2	2.697E-07	-9.582E-08	8.241E-07	-8.125E-07	6.274E-07	7.847E-07	1.861E-06	1.932E-06	5.711E-06	6.058E-06	6.561E-06	9.020E-06		
3	1.073E-07	1.418E-07	-1.049E-06	3.828E-07	1.493E-06	4.652E-06	6.142E-07	6.828E-06	1.262E-05	1.114E-05	1.414E-05	2.414E-05		
4	-6.417E-07	-1.659E-07	4.006E-06	-2.461E-06	8.527E-06	3.012E-06	1.107E-06	1.933E-05	1.795E-05	1.297E-05	2.620E-05	4.883E-05		
6	1.004E-05	7.010E-06	-4.571E-06	2.007E-05	7.681E-07	-1.047E-05	3.186E-05	4.154E-05	7.500E-06	1.669E-05	8.715E-05	1.510E-04		
8	-1.817E-05	1.089E-05	-1.136E-05	1.793E-05	-3.049E-05	1.939E-05	8.500E-05	2.264E-05	-1.289E-05	5.758E-05	2.254E-04	3.356E-04		
10	1.208E-05	-4.789E-05	6.077E-05	-5.116E-05	1.582E-06	1.126E-04	9.461E-05	-4.743E-05	1.793E-06	1.775E-04	4.574E-04	6.005E-04		
15	-1.246E-04	1.844E-04	-1.261E-04	9.993E-05	3.392E-04	1.573E-04	-2.376E-04	-1.629E-04	4.759E-04	9.637E-04	1.388E-03	1.465E-03		
20	2.745E-04	-3.083E-04	-1.154E-04	6.278E-04	1.949E-05	-5.221E-04	-5.224E-04	4.667E-04	1.766E-03	2.326E-03	2.459E-03	2.186E-03		
30	-1.944E-03	1.247E-03	1.051E-03	-1.596E-03	-1.063E-03	-4.034E-04	2.335E-03	4.570E-03	5.196E-03	4.530E-03	2.656E-03	1.038E-03		
45	2.317E-03	-3.978E-03	-4.084E-03	2.239E-03	7.228E-03	9.717E-03	1.044E-02	7.830E-03	2.463E-03	-1.888E-03	-7.856E-03	-1.166E-02		
60	-2.254E-03	2.629E-03	1.087E-02	1.632E-02	1.474E-02	1.112E-02	3.189E-03	-6.474E-03	-1.718E-02	-2.405E-02	-3.243E-02	-3.742E-02		
75	1.383E-02	2.106E-02	1.868E-02	7.590E-03	-3.081E-03	-1.178E-02	-2.449E-02	-3.669E-02	-4.868E-02	-5.604E-02	-6.498E-02	-7.038E-02		
90	1.458E-02	5.340E-03	-7.702E-02	-2.642E-02	-3.649E-02	-4.737E-02	-5.909E-02	-6.995E-02	-8.078E-02	-8.772E-02	-9.664E-02	-1.024E-01		
120	-5.014E-02	-6.115E-02	-6.740E-02	-7.666E-02	-8.249E-02	-8.695E-02	-9.370E-02	-1.011E-01	-1.098E-01	-1.164E-01	-1.261E-01	-1.334E-01		
150	-4.285E-02	-4.632E-02	-4.900E-02	-5.314E-02	-5.635E-02	-5.901E-02	-6.335E-02	-6.841E-02	-7.480E-02	-7.982E-02	-8.770E-02	-9.401E-02		
179	-1.459E-03	-1.600E-03	-1.703E-03	-1.872E-03	-1.949E-03	-2.103E-03	-2.273E-03	-2.470E-03	-2.719E-03	-2.916E-03	-3.230E-03	-3.486E-03		
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00		
1	3.389E-06	4.042E-06	5.463E-06	6.300E-06	6.160E-06	6.673E-06	6.276E-06	5.832E-06	5.029E-06	4.118E-06	3.138E-06	2.528E-06		
2	1.318E-05	1.809E-05	2.346E-05	2.789E-05	2.644E-05	2.673E-05	2.467E-05	2.277E-05	1.935E-05	1.567E-05	1.182E-05	9.530E-06		
3	3.327E-05	4.752E-05	5.845E-05	6.396E-05	6.477E-05	5.947E-05	5.387E-05	4.895E-05	4.098E-05	3.300E-05	2.476E-05	1.963E-05		
4	6.951E-05	9.384E-05	1.108E-04	1.163E-04	1.128E-04	1.013E-04	9.026E-05	8.103E-05	6.706E-05	5.324E-05	3.967E-05	3.164E-05		
6	1.945E-04	2.397E-04	2.583E-04	2.505E-04	2.322E-04	1.971E-04	1.695E-04	1.486E-04	1.200E-04	9.315E-05	6.823E-05	5.399E-05		
8	3.975E-04	4.457E-04	4.445E-04	4.011E-04	3.544E-04	2.821E-04	2.338E-04	1.993E-04	1.543E-04	1.160E-04	8.272E-05	6.464E-05		
10	6.638E-04	6.863E-04	6.371E-04	5.314E-04	4.449E-04	3.259E-04	2.533E-04	2.055E-04	1.479E-04	1.038E-04	6.961E-05	5.271E-05		
15	1.415E-03	1.217E-03	9.210E-04	5.648E-04	3.370E-04	8.383E-05	-1.944E-05	-1.035E-04	-1.555E-04	-1.671E-04	-1.492E-04	-1.281E-04		
20	1.843E-03	1.216E-03	5.266E-04	-1.671E-04	-5.543E-04	-9.175E-04	-1.044E-03	-1.075E-03	-1.032E-03	-9.100E-04	-7.296E-04	-6.009E-04		
30	-2.353E-04	-2.038E-03	-3.661E-03	-5.020E-03	-5.024E-03	-5.947E-03	-5.826E-03	-5.562E-03	-4.960E-03	-4.169E-03	-3.240E-03	-2.634E-03		
45	-1.428E-02	-1.761E-02	-2.026E-02	-2.206E-02	-2.249E-02	-2.187E-02	-2.063E-02	-1.929E-02	-1.682E-02	-1.393E-02	-1.072E-02	-8.680E-03		
60	-4.075E-02	-4.486E-02	-4.792E-02	-4.957E-02	-4.941E-02	-4.714E-02	-4.413E-02	-4.110E-02	-3.573E-02	-2.955E-02	-2.273E-02	-1.840E-02		
75	-7.405E-02	-7.865E-02	-8.214E-02	-8.391E-02	-8.339E-02	-7.970E-02	-7.489E-02	-7.001E-02	-6.122E-02	-5.090E-02	-3.933E-02	-3.191E-02		
90	-1.065E-01	-1.121E-01	-1.108E-01	-1.200E-01	-1.201E-01	-1.166E-01	-1.109E-01	-1.047E-01	-9.277E-02	-7.807E-02	-6.093E-02	-4.966E-02		
120	-1.392E-01	-1.484E-01	-1.584E-01	-1.695E-01	-1.743E-01	-1.825E-01	-1.828E-01	-1.798E-01	-1.693E-01	-1.507E-01	-1.235E-01	-1.032E-01		
150	-9.940E-02	-1.086E-01	-1.200E-01	-1.355E-01	-1.445E-01	-1.694E-01	-1.855E-01	-1.977E-01	-2.135E-01	-2.219E-01	-2.148E-01	-1.980E-01		
179	-3.708E-03	-4.096E-03	-4.400E-03	-4.338E-03	-4.011E-03	-3.758E-03	-3.436E-03	-3.174E-03	-2.817E-03	-2.501E-03	-2.207E-03	-2.547E-03		
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02		
1	1.817E-06	1.417E-06	1.161E-06	8.526E-07	6.096E-07	4.132E-07	3.125E-07	2.101E-07	1.582E-07	1.269E-07	9.092E-08	6.378E-08		
2	6.813E-06	5.306E-06	4.345E-06	3.189E-06	2.279E-06	1.545E-06	1.168E-06	7.853E-07	5.914E-07	4.744E-07	3.398E-07	2.384E-07		
3	4.403E-05	1.091E-05	8.931E-06	6.552E-06	4.681E-06	3.172E-06	2.399E-06	1.613E-06	1.214E-06	9.740E-07	6.977E-07	4.895E-07		
4	2.238E-05	1.749E-05	1.431E-05	1.054E-05	7.526E-06	5.098E-06	3.855E-06	2.591E-06	1.952E-06	1.565E-06	1.121E-06	7.866E-07		
6	3.821E-05	2.961E-05	2.418E-05	1.771E-05	1.264E-05	8.558E-06	6.470E-06	4.349E-06	3.275E-06	2.627E-06	1.882E-06	1.320E-06		
8	4.523E-05	3.488E-05	2.842E-05	2.076E-05	1.480E-05	1.002E-05	7.571E-06	5.087E-06	3.831E-06	3.072E-06	2.201E-06	1.544E-06		
10	3.583E-05	2.729E-05	2.209E-05	1.604E-05	1.140E-05	7.696E-06	5.813E-06	3.904E-06	2.939E-06	2.357E-06	1.688E-06	1.184E-06		
15	-9.683E-05	-7.703E-05	-6.374E-05	-4.724E-05	-3.395E-05	-2.308E-05	-1.747E-05	-1.176E-05	-8.856E-06	-7.104E-06	-5.090E-06	-3.571E-06		
20	-4.399E-04	-3.456E-04	-2.842E-04	-2.094E-04	-1.509E-04	-1.018E-04	-7.702E-05	-5.180E-05	-3.902E-05	-3.129E-05	-2.242E-05	-1.573E-05		
30	-1.908E-03	-1.492E-03	-1.225E-03	-9.008E-04	-6.446E-04	-4.371E-04	-3.306E-04	-2.223E-04	-1.675E-04	-1.343E-04	-9.622E-05	-6.750E-05		
45	-6.265E-03	-4.894E-03	-4.014E-03	-2.950E-03	-2.110E-03	-1.431E-03	-1.082E-03	-7.276E-04	-5.481E-04	-4.396E-04	-3.149E-04	-2.209E-04		
60	-1.328E-02	-1.038E-02	-8.504E-03	-6.254E-03	-4.474E-03	-3.033E-03	-2.294E-03	-1.546E-03	-1.162E-03	-9.318E-04	-6.675E-04	-4.683E-04		
75	-2.308E-02	-1.804E-02	-1.480E-02	-1.089E-02	-7.788E-03	-5.281E-03	-3.995E-03	-2.686E-03	-2.023E-03	-1.623E-03	-1.162E-03	-8.155E-04		
90	-3.607E-02	-2.825E-02	-2.320E-02	-1.707E-02	-1.272E-02	-8.290E-03	-6.272E-03	-4.217E-03	-3.177E-03	-2.548E-03	-1.825E-03	-1.280E-03		
120	-7.667E-02	-6.059E-02	-5.004E-02	-3.696E-02	-2.657E-02	-1.802E-02	-1.364E-02	-9.176E-03	-6.913E-03	-5.545E-03	-3.972E-03	-2.787E-03		
150	-1.627E-01	-1.349E-01	-1.142E-01	-8.651E-02	-6.209E-02	-4.315E-02	-3.276E-02	-2.209E-02	-1.665E-02	-1.336E-02	-9.576E-03	-6.719E-03		
179	-3.572E-02	-4.583E-02	-5.579E-02	-7.521E-02	-1.027E-01	-1.432E-01	-1.757E-01	-2.172E-01	-2.334E-01	-2.339E-01	-2.145E-01	-1.770E-01		

RU (44) SHERMAN FUNCTION: DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM ENERGY (MEV)

	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
DEG												
1	1.382E-07	-1.023E-07	-4.343E-08	-1.007E-08	2.137E-07	1.886E-07	3.816E-07	7.684E-07	9.211E-07	2.016E-06	7.690E-06	2.707E-06
2	2.935E-07	-1.434E-07	9.339E-07	9.598E-07	1.889E-07	4.160E-07	2.002E-06	1.752E-06	5.102E-06	7.006E-06	6.658E-06	8.778E-06
3	7.499E-08	1.149E-06	-1.147E-06	1.292E-06	4.379E-07	4.777E-06	9.674E-07	5.676E-06	1.350E-05	1.174E-05	1.336E-05	2.300E-05
4	1.398E-06	1.869E-06	2.024E-06	-2.967E-06	7.589E-06	5.801E-06	-4.334E-07	1.766E-05	2.018E-05	1.348E-05	2.413E-05	4.601E-05
6	6.957E-06	7.309E-07	1.565E-06	1.682E-05	7.211E-06	-1.215E-05	2.657E-05	4.686E-05	1.059E-05	1.287E-05	7.948E-05	1.450E-04
8	-6.968E-06	2.344E-05	-2.204E-05	3.101E-05	-3.254E-05	4.410E-06	8.809E-05	3.638E-05	-1.783E-05	4.135E-05	2.115E-04	3.300E-04
10	-1.335E-05	4.225E-05	4.481E-05	-3.641E-05	-2.379E-05	9.774E-05	1.174E-04	-3.413E-05	-2.111E-05	1.471E-04	4.423E-04	6.031E-04
15	-8.235E-05	1.893E-04	-6.993E-05	2.773E-05	3.497E-04	2.278E-04	-2.070E-04	-2.209E-04	3.983E-04	9.219E-04	1.415E-03	1.529E-03
20	1.631E-04	-2.082E-04	-2.532E-04	6.745E-04	1.685E-04	-4.474E-04	-6.240E-04	3.045E-04	1.698E-03	2.358E-03	2.547E-03	2.363E-03
30	-1.122E-03	1.092E-03	1.362E-03	-1.434E-03	-1.899E-03	-8.009E-04	2.010E-03	4.545E-03	5.485E-03	4.943E-03	3.106E-03	1.451E-03
45	3.053E-03	-3.619E-03	-4.655E-03	1.335E-03	6.172E-03	9.744E-03	1.109E-02	8.816E-03	3.447E-03	-1.060E-03	-7.327E-03	-1.135E-02
60	-8.081E-03	1.121E-03	1.007E-02	1.696E-02	1.617E-02	1.277E-02	4.826E-03	-5.203E-03	-1.650E-02	-2.379E-02	-3.269E-02	-3.799E-02
75	1.274E-02	2.192E-02	2.054E-02	9.874E-03	-1.064E-02	-1.016E-02	-7.361E-02	-3.660E-02	-4.938E-02	-5.720E-02	-6.666E-02	-7.235E-02
90	2.185E-02	7.952E-03	-5.501E-03	-2.527E-02	-3.835E-02	-4.763E-02	-6.015E-02	-7.171E-02	-8.318E-02	-9.049E-02	-9.983E-02	-1.058E-01
120	-5.108E-02	-6.289E-02	-7.014E-02	-7.936E-02	-8.549E-02	-9.015E-02	-9.719E-02	-1.048E-01	-1.139E-01	-1.207E-01	-1.308E-01	-1.383E-01
150	-4.450E-02	-4.809E-02	-5.086E-02	-5.513E-02	-5.845E-02	-6.120E-02	-6.569E-02	-7.092E-02	-7.755E-02	-8.276E-02	-9.045E-02	-9.750E-02
179	-1.512E-03	-1.657E-03	-1.768E-03	-1.939E-03	-2.070E-03	-2.178E-03	-2.353E-03	-2.558E-03	-2.817E-03	-3.022E-03	-3.348E-03	-3.614E-03
	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
DEG												
1	3.008E-06	4.217E-06	5.471E-06	6.319E-06	6.849E-06	6.829E-06	6.446E-06	6.003E-06	5.188E-06	4.255E-06	3.247E-06	2.617E-06
2	1.285E-05	1.777E-05	2.411E-05	2.836E-05	2.917E-05	2.795E-05	2.552E-05	2.364E-05	2.013E-05	1.628E-05	1.235E-05	9.930E-06
3	3.188E-05	4.723E-05	5.944E-05	6.624E-05	6.647E-05	6.184E-05	5.615E-05	5.112E-05	4.295E-05	3.449E-05	2.592E-05	2.075E-05
4	6.607E-05	9.351E-05	1.125E-04	1.199E-04	1.171E-04	1.059E-04	9.471E-05	8.520E-05	7.069E-05	5.622E-05	4.194E-05	3.347E-05
6	1.918E-04	2.428E-04	2.661E-04	2.618E-04	2.442E-04	2.089E-04	1.807E-04	1.588E-04	1.285E-04	1.000E-04	7.340E-05	5.813E-05
8	3.999E-04	4.587E-04	4.654E-04	4.249E-04	3.789E-04	3.040E-04	2.534E-04	2.170E-04	1.690E-04	1.277E-04	9.145E-05	7.160E-05
10	6.794E-04	7.165E-04	6.753E-04	5.722E-04	4.832E-04	3.600E-04	2.828E-04	2.317E-04	1.693E-04	1.206E-04	8.205E-05	6.260E-05
15	1.499E-03	1.316E-03	1.020E-03	6.534E-04	4.151E-04	1.462E-04	1.255E-05	-5.886E-05	-1.204E-04	-1.404E-04	-1.299E-04	-1.129E-04
20	2.031E-03	1.399E-03	6.878E-04	-3.908E-05	-4.495E-04	-8.616E-04	-9.847E-04	-1.026E-03	-9.965E-04	-8.842E-04	-7.118E-04	-5.871E-04
30	1.288E-04	-1.760E-03	-3.472E-03	-4.918E-03	-5.769E-03	-5.939E-03	-5.838E-03	-5.584E-03	-4.988E-03	-4.198E-03	-3.265E-03	-2.659E-03
45	-1.413E-02	-1.766E-02	-2.047E-02	-2.239E-02	-2.287E-02	-2.227E-02	-2.102E-02	-1.966E-02	-1.715E-02	-1.420E-02	-1.093E-02	-8.848E-03
60	-4.152E-02	-4.585E-02	-4.907E-02	-5.081E-02	-5.064E-02	-4.831E-02	-4.521E-02	-4.210E-02	-3.659E-02	-3.025E-02	-2.326E-02	-1.883E-02
75	-7.619E-02	-8.099E-02	-8.460E-02	-8.638E-02	-8.589E-02	-8.193E-02	-7.693E-02	-7.199E-02	-6.281E-02	-5.220E-02	-4.032E-02	-3.270E-02
90	-1.101E-01	-1.159E-01	-1.207E-01	-1.238E-01	-1.239E-01	-1.201E-01	-1.141E-01	-1.076E-01	-9.532E-02	-8.015E-02	-6.251E-02	-5.044E-02
120	-1.444E-01	-1.539E-01	-1.641E-01	-1.754E-01	-1.827E-01	-1.885E-01	-1.886E-01	-1.854E-01	-1.743E-01	-1.550E-01	-1.269E-01	-1.059E-01
150	-1.031E-01	-1.126E-01	-1.244E-01	-1.405E-01	-1.579E-01	-1.755E-01	-1.919E-01	-2.045E-01	-2.205E-01	-2.290E-01	-2.212E-01	-2.037E-01
179	-3.845E-03	-4.249E-03	-4.772E-03	-5.538E-03	-6.235E-03	-7.528E-03	-8.748E-03	-9.927E-03	-1.222E-02	-1.556E-02	-2.102E-02	-2.640E-02
	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
DEG												
1	1.881E-06	1.467E-06	1.202E-06	8.831E-07	6.314E-07	4.280E-07	1.237E-07	2.176E-07	1.639E-07	1.315E-07	9.418E-08	6.607E-08
2	7.095E-06	5.549E-06	4.544E-06	3.335E-06	2.384E-06	1.616E-06	1.222E-06	8.214E-07	6.187E-07	4.962E-07	3.555E-07	2.494E-07
3	1.483E-05	1.154E-05	9.445E-06	6.929E-06	4.951E-06	3.355E-06	2.537E-06	1.706E-06	1.285E-06	1.030E-06	7.380E-07	5.177E-07
4	2.386E-05	1.854E-05	1.506E-05	1.104E-05	7.888E-06	5.344E-06	4.041E-06	2.716E-06	2.046E-06	1.641E-06	1.115E-06	8.246E-07
6	4.117E-05	3.191E-05	2.607E-05	1.909E-05	1.363E-05	9.228E-06	6.977E-06	4.689E-06	3.532E-06	2.832E-06	2.029E-06	1.423E-06
8	5.020E-05	3.875E-05	3.158E-05	2.308E-05	1.646E-05	1.114E-05	8.418E-06	5.657E-06	4.260E-06	3.416E-06	2.447E-06	1.717E-06
10	4.286E-05	3.275E-05	2.655E-05	1.931E-05	1.373E-05	9.276E-06	7.008E-06	4.707E-06	3.544E-06	2.842E-06	2.036E-06	1.428E-06
15	-8.614E-05	-6.876E-05	-5.699E-05	-4.230E-05	-3.043E-05	-2.069E-05	-1.567E-05	-1.054E-05	-7.944E-06	-6.372E-06	-4.565E-06	-3.203E-06
20	-4.304E-04	-3.383E-04	-2.783E-04	-2.051E-04	-1.470E-04	-9.973E-05	-7.546E-05	-5.075E-05	-3.823E-05	-3.066E-05	-2.196E-05	-1.541E-05
30	-1.924E-03	-1.505E-03	-1.235E-03	-9.084E-04	-6.501E-04	-4.408E-04	-3.133E-04	-2.242E-04	-1.689E-04	-1.355E-04	-9.704E-05	-6.808E-05
45	-6.386E-03	-4.989E-03	-4.091E-03	-3.007E-03	-2.151E-03	-1.458E-03	-1.035E-03	-7.417E-04	-5.586E-04	-4.480E-04	-3.210E-04	-2.252E-04
60	-1.359E-02	-1.061E-02	-8.704E-03	-6.398E-03	-4.576E-03	-3.103E-03	-2.347E-03	-1.578E-03	-1.188E-03	-9.532E-04	-6.828E-04	-4.790E-04
75	-2.364E-02	-1.849E-02	-1.517E-02	-1.115E-02	-7.979E-03	-5.410E-03	-4.093E-03	-2.752E-03	-2.073E-03	-1.662E-03	-1.191E-03	-8.354E-04
90	-3.699E-02	-2.897E-02	-2.379E-02	-1.751E-02	-1.253E-02	-8.499E-03	-6.430E-03	-4.323E-03	-3.256E-03	-2.612E-03	-1.871E-03	-1.313E-03
120	-7.863E-01	-6.216E-02	-5.129E-02	-3.791E-02	-2.721E-02	-1.848E-02	-1.399E-02	-9.411E-03	-7.090E-03	-5.687E-03	-4.074E-03	-2.858E-03
150	-1.672E-01	-1.385E-01	-1.172E-01	-8.765E-02	-6.462E-02	-4.426E-02	-3.360E-02	-2.415E-02	-1.708E-02	-1.371E-02	-9.822E-03	-6.892E-03
179	-3.702E-02	-4.750E-02	-5.782E-02	-7.793E-02	-1.065E-01	-1.482E-01	-1.818E-01	-2.244E-01	-2.408E-01	-2.410E-01	-2.207E-01	-1.819E-01

RM (45) SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM ENERGY (MEV)

254

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	1.048E-07	-3.545E-09	1.683E-07	2.601E-08	2.257E-07	4.084E-07	5.970E-07	8.054E-07	7.802E-07	1.983E-06	2.751E-06	2.566E-06
2	4.376E-07	3.052E-07	8.080E-07	1.967E-07	5.449E-07	1.967E-06	2.442E-06	1.072E-06	5.212E-06	7.177E-06	6.819E-06	9.130E-06
3	-8.533E-07	-4.256E-07	-6.640E-07	-2.296E-06	-6.305E-07	4.650E-06	1.749E-06	4.506E-06	1.381E-05	1.292E-05	1.311E-05	2.190E-05
4	3.067E-07	3.653E-06	2.849E-07	-2.526E-06	6.231E-06	7.822E-06	1.338E-06	1.599E-05	2.328E-05	1.479E-05	2.075E-05	4.315E-05
6	5.799E-07	-3.678E-06	8.235E-06	1.133E-05	1.348E-05	-1.162E-05	1.983E-05	5.099E-05	1.525E-05	9.760E-06	2.046E-05	1.383E-04
8	5.244E-06	3.609E-05	2.804E-05	4.181E-05	-2.549E-05	7.828E-06	4.746E-05	5.133E-05	-2.009E-05	2.643E-05	1.952E-04	3.219E-04
10	-3.441E-05	-2.552E-05	2.154E-05	-1.480E-05	-4.673E-05	7.704E-05	1.377E-04	-1.695E-05	4.097E-05	1.159E-04	4.236E-04	6.022E-04
15	-1.662E-05	1.604E-04	-1.121E-07	-4.781E-05	3.445E-04	2.933E-04	1.762E-04	-2.708E-04	3.155E-04	8.709E-04	1.433E-04	1.588E-03
20	-1.903E-05	-7.371E-05	3.703E-04	6.850E-04	3.417E-04	-3.461E-04	-7.056E-04	1.361E-04	1.611E-03	2.371E-03	3.572E-03	2.539E-03
30	-1.024E-03	7.984E-04	1.417E-03	1.201E-03	-2.074E-03	-1.188E-03	1.644E-03	4.361E-03	5.747E-03	5.349E-03	3.572E-03	1.885E-03
45	3.658E-03	-3.088E-03	5.104E-03	3.712E-04	9.654E-03	1.168E-02	9.804E-03	4.478E-02	-1.689E-04	-6.735E-03	-6.735E-03	-1.098E-02
60	-8.468E-03	-4.749E-04	9.080E-03	1.745E-02	1.744E-02	1.442E-02	6.544E-03	-3.819E-03	-1.571E-02	-2.343E-02	-3.288E-02	-3.950E-02
75	1.138E-02	2.257E-02	2.232E-02	1.224E-02	-1.093E-03	-2.258E-02	3.138E-02	-4.998E-02	-9.325E-02	-1.033E-01	-1.033E-01	-1.033E-01
90	2.404E-02	1.068E-02	3.124E-02	-2.392E-02	-3.784E-02	-7.74E-02	-1.111E-02	-7.342E-02	-8.556E-02	-9.325E-02	-1.033E-01	-1.033E-01
120	-5.119E-02	-6.439E-02	7.234E-02	-8.507E-02	-8.659E-02	-3.393E-02	-1.087E-01	-1.087E-01	-1.181E-01	-1.251E-01	-1.356E-01	-1.434E-01
150	-4.618E-02	-9.988E-02	-5.274E-02	-5.715E-02	-6.057E-02	-6.342E-02	-6.806E-02	-7.347E-02	-8.034E-02	-8.574E-02	-9.424E-02	-1.010E-01
179	-1.565E-03	-1.715E-03	-1.830E-03	-2.006E-03	-2.141E-03	-2.253E-03	-2.435E-03	-2.647E-03	-3.128E-03	-3.467E-03	-3.744E-03	-3.744E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	3.441E-06	4.196E-06	5.147E-06	6.551E-06	8.804E-06	6.975E-06	6.551E-06	6.167E-06	5.343E-06	4.389E-06	3.353E-06	2.704E-06
2	1.253E-05	1.740E-05	2.407E-05	2.877E-05	2.971E-05	2.877E-05	2.607E-05	2.404E-05	2.086E-05	1.695E-05	1.294E-05	1.032E-05
3	3.062E-05	4.624E-05	5.974E-05	6.762E-05	6.816E-05	6.407E-05	5.834E-05	5.320E-05	4.488E-05	3.609E-05	2.715E-05	2.175E-05
4	6.363E-05	9.278E-05	1.191E-04	1.233E-04	1.213E-04	1.103E-04	9.914E-05	8.320E-05	7.434E-05	5.923E-05	4.424E-05	3.423E-05
6	1.893E-04	2.454E-04	2.744E-04	2.729E-04	2.630E-04	2.208E-04	1.918E-04	1.590E-04	1.369E-04	1.070E-04	7.869E-05	6.237E-05
8	4.706E-04	6.766E-04	7.451E-04	4.476E-04	4.024E-04	3.263E-04	2.736E-04	2.184E-04	1.842E-04	1.398E-04	1.005E-04	7.882E-05
10	7.449E-04	7.449E-04	7.130E-04	6.121E-04	5.224E-04	3.942E-04	3.133E-04	2.589E-04	1.916E-04	1.342E-04	9.506E-05	7.296E-05
15	1.581E-03	1.415E-03	1.124E-03	7.456E-04	4.946E-04	2.122E-04	1.192E-04	6.194E-05	3.289E-05	-1.117E-04	-1.031E-04	-9.649E-05
20	2.223E-03	1.590E-03	8.573E-04	9.752E-05	-3.349E-04	-7.588E-04	-9.172E-04	-9.722E-04	-5.966E-04	-5.009E-04	-6.914E-04	-5.714E-04
30	5.173E-04	-1.457E-03	-3.262E-03	-4.797E-03	-5.498E-03	-5.918E-03	-5.839E-03	-5.596E-03	-5.009E-03	-4.221E-03	-3.286E-03	-2.673E-03
45	-1.392E-02	-1.767E-02	-2.052E-02	-2.270E-02	-2.317E-02	-2.266E-02	-2.140E-02	-2.002E-02	-1.746E-02	-1.446E-02	-1.133E-02	-9.011E-03
60	-4.223E-02	-6.681E-02	-8.020E-02	-8.703E-02	-8.947E-02	-8.947E-02	-8.628E-02	-8.309E-02	-7.744E-02	-6.944E-02	-6.379E-02	-5.925E-02
75	-7.833E-02	-8.333E-02	-8.703E-02	-8.886E-02	-8.872E-02	-8.416E-02	-7.698E-02	-7.376E-02	-6.441E-02	-5.350E-02	-4.130E-02	-3.349E-02
90	-1.137E-01	-1.137E-01	-1.277E-01	-1.277E-01	-1.277E-01	-1.236E-01	-1.173E-01	-1.106E-01	-9.787E-02	-8.223E-02	-6.410E-02	-5.222E-02
120	-1.494E-01	-1.594E-01	-1.694E-01	-1.814E-01	-1.844E-01	-1.945E-01	-1.945E-01	-1.910E-01	-1.794E-01	-1.593E-01	-1.303E-01	-1.087E-01
150	-1.069E-01	-1.167E-01	-1.264E-01	-1.456E-01	-1.594E-01	-1.816E-01	-1.985E-01	-2.113E-01	-2.277E-01	-2.361E-01	-2.277E-01	-2.094E-01
179	-3.984E-03	-4.403E-03	-4.946E-03	-5.740E-03	-6.446E-03	-7.801E-03	-9.064E-03	-1.029E-02	-1.266E-02	-1.612E-02	-2.177E-02	-2.734E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	1.945E-06	1.517E-06	1.244E-06	9.132E-07	6.529E-07	4.426E-07	3.347E-07	2.251E-07	1.695E-07	1.359E-07	9.739E-08	6.832E-08
2	7.401E-06	5.767E-06	4.722E-06	3.463E-06	2.474E-06	1.677E-06	1.269E-06	8.528E-07	6.432E-07	5.158E-07	3.690E-07	2.589E-07
3	1.559E-05	1.210E-05	9.806E-06	7.268E-06	5.193E-06	3.519E-06	2.661E-06	1.789E-06	1.347E-06	1.041E-06	7.741E-07	5.430E-07
4	2.421E-05	3.428E-05	2.800E-05	2.051E-05	1.464E-05	9.916E-06	7.437E-06	5.039E-06	3.795E-06	2.744E-06	1.250E-06	8.772E-07
6	5.535E-05	4.275E-05	3.886E-05	2.548E-05	1.617E-05	1.230E-05	9.297E-06	6.248E-06	4.703E-06	3.044E-06	2.180E-06	1.530E-06
8	1.022E-05	3.866E-05	3.123E-05	2.274E-05	1.617E-05	1.093E-05	8.260E-06	5.549E-06	3.774E-06	2.400E-06	1.684E-06	1.189E-06
10	2.459E-05	-9.838E-05	-4.970E-05	-3.697E-05	-2.662E-05	-1.812E-05	-9.235E-06	-6.958E-06	-5.582E-06	-3.999E-06	-2.806E-06	-2.106E-06
15	-4.198E-04	-2.999E-04	-2.713E-04	-2.001E-04	-1.434E-04	-9.734E-05	-7.365E-05	-4.953E-05	-3.731E-05	-2.993E-05	-2.144E-05	-1.504E-05
20	-1.937E-03	-1.516E-03	-1.244E-03	-9.150E-04	-6.547E-04	-4.408E-04	-2.595E-04	-2.258E-04	-1.701E-04	-1.364E-04	-9.744E-05	-6.857E-05
30	-6.504E-03	-5.081E-03	-4.167E-03	-3.063E-03	-2.191E-03	-1.445E-03	-1.132E-03	-7.554E-04	-5.689E-04	-4.364E-04	-3.269E-04	-2.293E-04
45	-1.389E-02	-1.085E-02	-8.898E-03	-6.540E-03	-4.674E-03	-3.172E-03	-2.339E-03	-1.613E-03	-1.215E-03	-8.744E-04	-6.980E-04	-5.453E-04
60	-2.421E-02	-1.893E-02	-1.453E-02	-1.142E-02	-8.164E-03	-5.599E-03	-4.190E-03	-2.817E-03	-2.126E-03	-1.702E-03	-1.219E-03	-8.553E-04
90	-3.791E-02	-2.968E-02	-2.437E-02	-1.794E-02	-1.284E-02	-8.708E-03	-6.150E-03	-4.343E-03	-3.336E-03	-2.675E-03	-1.917E-03	-1.345E-03
120	-8.064E-02	-6.373E-02	-5.268E-02	-3.887E-02	-2.740E-02	-1.895E-02	-1.344E-02	-9.647E-03	-7.267E-03	-5.829E-03	-4.176E-03	-2.930E-03
150	-1.171E-01	-9.421E-01	-7.204E-01	-5.103E-02	-6.742E-02	-4.538E-02	-3.445E-02	-2.322E-02	-1.751E-02	-1.405E-02	-1.007E-02	-7.069E-03
179	-3.835E-02	-4.919E-02	-5.988E-02	-8.070E-02	-1.102E-01	-1.602E-01	-2.145E-01	-2.816E-01	-3.483E-01	-4.482E-01	-5.668E-01	-7.069E-01

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	6.582E-08	7.082E-09	-3.787E-08	1.755E-07	-7.734E-08	2.322E-07	7.163E-08	8.787E-07	1.300E-06	1.304E-06	2.187E-06	3.146E-06
2	1.653E-07	7.913E-07	3.083E-07	-1.694E-07	8.089E-07	1.387E-07	2.642E-06	1.703E-06	5.022E-06	7.061E-06	7.851E-06	8.463E-06
3	-9.590E-07	-8.926E-07	4.401E-07	3.040E-06	-9.001E-07	3.752E-06	2.701E-06	3.478E-06	1.436E-05	1.423E-05	1.317E-05	2.003E-05
4	3.281E-06	4.348E-06	-2.708E-06	-9.668E-07	4.093E-06	9.644E-06	-1.572E-06	1.374E-05	2.376E-05	1.649E-05	2.077E-05	4.028E-05
6	-5.803E-06	-1.020E-05	1.794E-05	4.168E-06	1.991E-05	-8.629E-06	1.241E-05	5.385E-05	2.081E-05	8.105E-06	6.199E-05	1.305E-04
8	1.856E-05	3.096E-05	-2.735E-05	4.833E-05	-2.277E-05	-2.285E-05	8.300E-05	6.641E-05	-1.948E-05	1.337E-05	1.781E-04	3.132E-04
10	-4.386E-05	-9.333E-07	-5.509E-06	1.130E-05	-6.370E-05	5.166E-05	1.539E-04	4.774E-06	-5.748E-05	8.468E-05	4.014E-04	5.975E-04
15	5.838E-05	1.056E-04	7.584E-05	-1.201E-04	3.277E-04	3.505E-04	-1.057E-04	-3.104E-04	2.288E-04	8.093E-04	1.442E-03	1.642E-03
20	-1.335E-04	7.960E-05	-4.557E-04	6.563E-04	4.711E-04	-2.206E-04	-7.641E-04	-3.521E-05	1.503E-03	2.365E-03	2.848E-03	2.713E-03
30	-8.029E-04	4.352E-04	1.798E-03	-9.006E-04	-2.194E-03	-1.554E-03	1.241E-03	4.340E-03	5.980E-03	5.747E-03	4.050E-03	2.341E-03
45	4.088E-03	-2.396E-03	-5.410E-03	-6.343E-04	5.204E-03	9.445E-03	1.219E-02	1.079E-02	5.555E-03	7.841E-04	-6.079E-03	-1.050E-02
60	-9.042E-03	-2.125E-03	7.898E-03	1.777E-02	1.867E-02	1.606E-02	8.337E-03	-2.323E-03	-1.480E-02	-2.297E-02	-3.300E-02	-3.895E-02
75	9.783E-03	2.299E-02	2.399E-02	1.467E-02	3.390E-03	-6.446E-03	-2.138E-02	-3.603E-02	-5.049E-02	-5.931E-02	-6.990E-02	-7.621E-02
90	2.614E-02	1.350E-02	-5.747E-04	-2.237E-02	-3.715E-02	-4.771E-02	-6.197E-02	-7.506E-02	-8.792E-02	-9.601E-02	-1.063E-01	-1.128E-01
120	-5.270E-02	-6.624E-02	-7.449E-02	-8.480E-02	-9.158E-02	-9.668E-02	-1.043E-01	-1.126E-01	-1.223E-01	-1.296E-01	-1.404E-01	-1.484E-01
150	-4.789E-02	-5.171E-02	-5.460E-02	-5.920E-02	-6.273E-02	-6.567E-02	-7.046E-02	-7.605E-02	-8.316E-02	-9.875E-02	-9.757E-02	-1.046E-01
179	-1.618E-03	-1.773E-03	-1.892E-03	-2.074E-03	-2.214E-03	-2.330E-03	-2.517E-03	-2.736E-03	-3.015E-03	-3.236E-03	-3.588E-03	-3.875E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	3.481E-06	4.317E-06	5.321E-06	6.599E-06	6.920E-06	7.110E-06	6.761E-06	6.324E-06	5.492E-06	4.520E-06	3.456E-06	2.789E-06
2	1.224E-05	1.764E-05	2.414E-05	2.870E-05	3.039E-05	2.955E-05	2.736E-05	2.527E-05	2.125E-05	1.731E-05	1.335E-05	1.073E-05
3	2.933E-05	4.537E-05	5.985E-05	6.884E-05	7.014E-05	6.624E-05	6.058E-05	5.532E-05	4.677E-05	3.768E-05	2.838E-05	2.274E-05
4	6.097E-05	9.158E-05	1.152E-04	1.265E-04	1.254E-04	1.148E-04	1.035E-04	9.356E-05	7.800E-05	6.226E-05	4.656E-05	3.720E-05
6	1.837E-04	2.467E-04	2.812E-04	2.836E-04	2.687E-04	2.328E-04	2.030E-04	1.796E-04	1.457E-04	1.140E-04	8.410E-05	6.672E-05
8	3.996E-04	4.866E-04	5.039E-04	4.711E-04	4.267E-04	3.490E-04	2.937E-04	2.539E-04	1.998E-04	1.523E-04	1.098E-04	8.630E-05
10	7.015E-04	7.715E-04	7.512E-04	6.540E-04	5.077E-04	4.305E-04	3.449E-04	2.871E-04	2.148E-04	1.565E-04	1.087E-04	8.378E-05
15	1.660E-03	1.515E-03	1.226E-03	8.414E-04	5.876E-04	2.818E-04	1.264E-04	3.944E-05	-4.283E-05	-8.094E-05	-8.681E-05	-7.890E-05
20	2.416E-03	1.786E-03	1.035E-03	2.427E-04	-2.159E-04	-6.689E-04	-8.480E-04	-9.128E-04	-9.118E-04	-8.222E-04	-6.685E-04	-5.536E-04
30	9.300E-04	-1.129E-03	-3.028E-03	-4.657E-03	-5.410E-03	-5.883E-03	-5.829E-03	-5.599E-03	-5.022E-03	-4.238E-03	-3.302E-03	-2.687E-03
45	-1.366E-02	-1.763E-02	-2.379E-02	-2.298E-02	-2.357E-02	-2.303E-02	-2.176E-02	-2.036E-02	-1.777E-02	-1.472E-02	-1.133E-02	-9.170E-03
60	-4.290E-02	-4.773E-02	-5.130E-02	-5.323E-02	-5.308E-02	-5.062E-02	-4.735E-02	-4.407E-02	-3.828E-02	-3.162E-02	-2.431E-02	-1.967E-02
75	-8.043E-02	-8.566E-02	-8.951E-02	-9.134E-02	-9.044E-02	-8.640E-02	-8.102E-02	-7.564E-02	-6.601E-02	-5.479E-02	-4.228E-02	-3.428E-02
90	-1.174E-01	-1.235E-01	-1.285E-01	-1.316E-01	-1.315E-01	-1.271E-01	-1.206E-01	-1.136E-01	-1.004E-01	-8.432E-02	-6.569E-02	-5.350E-02
120	-1.549E-01	-1.650E-01	-1.758E-01	-1.875E-01	-1.944E-01	-2.006E-01	-2.003E-01	-1.966E-01	-1.844E-01	-1.636E-01	-1.337E-01	-1.115E-01
150	-1.106E-01	-1.208E-01	-1.335E-01	-1.507E-01	-1.649E-01	-1.878E-01	-2.051E-01	-2.183E-01	-2.349E-01	-2.432E-01	-2.342E-01	-2.151E-01
179	-4.124E-03	-4.559E-03	-5.122E-03	-5.944E-03	-6.697E-03	-8.078E-03	-9.380E-03	-1.065E-02	-1.310E-02	-1.649E-02	-2.253E-02	-2.830E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.007E-06	1.566E-06	1.283E-06	9.426E-07	6.740E-07	4.569E-07	3.456E-07	2.323E-07	1.750E-07	1.403E-07	1.005E-07	7.053E-08
2	7.701E-06	6.001E-06	4.915E-06	3.608E-06	2.579E-06	1.746E-06	1.321E-06	8.878E-07	6.686E-07	5.363E-07	3.842E-07	2.695E-07
3	1.627E-05	1.267E-05	1.037E-05	7.607E-06	5.436E-06	3.684E-06	2.786E-06	1.873E-06	1.410E-06	1.131E-06	8.104E-07	5.685E-07
4	2.654E-05	2.064E-05	1.688E-05	1.238E-05	8.644E-06	5.992E-06	4.531E-06	3.046E-06	2.294E-06	1.840E-06	1.318E-06	9.246E-07
6	4.732E-05	3.670E-05	2.999E-05	2.197E-05	1.568E-05	1.062E-05	8.031E-06	5.398E-06	4.065E-06	3.260E-06	2.336E-06	1.638E-06
8	6.068E-05	4.690E-05	3.825E-05	2.797E-05	1.995E-05	1.350E-05	1.021E-05	6.860E-06	5.166E-06	4.143E-06	2.968E-06	2.082E-06
10	5.792E-05	4.444E-05	3.611E-05	2.632E-05	1.873E-05	1.267E-05	9.570E-06	6.430E-06	4.842E-06	3.883E-06	2.781E-06	1.951E-06
15	-6.218E-05	-5.022E-05	-4.186E-05	-3.123E-05	-2.253E-05	-1.535E-05	-1.163E-05	-7.882E-06	-5.898E-06	-4.732E-06	-3.340E-06	-2.379E-06
20	-4.071E-04	-3.204E-04	-2.637E-04	-1.945E-04	-1.394E-04	-9.461E-05	-7.159E-05	-4.815E-05	-3.627E-05	-2.909E-05	-2.084E-05	-1.462E-05
30	-1.948E-03	-1.524E-03	-1.251E-03	-9.203E-04	-6.586E-04	-4.467E-04	-3.379E-04	-2.272E-04	-1.711E-04	-1.372E-04	-9.832E-05	-6.897E-05
45	-6.619E-03	-5.171E-03	-4.240E-03	-3.117E-03	-2.294E-03	-1.512E-03	-1.143E-03	-7.687E-04	-5.790E-04	-4.644E-04	-3.327E-04	-2.344E-04
60	-1.419E-02	-1.109E-02	-9.090E-03	-6.681E-03	-4.779E-03	-3.240E-03	-2.451E-03	-1.648E-03	-1.241E-03	-9.954E-04	-7.131E-04	-5.003E-04
75	-2.478E-02	-1.937E-02	-1.589E-02	-1.168E-02	-8.359E-03	-5.668E-03	-4.287E-03	-2.883E-03	-2.171E-03	-1.741E-03	-1.248E-03	-8.752E-04
90	-3.882E-02	-3.040E-02	-2.496E-02	-1.837E-02	-1.315E-02	-8.917E-03	-6.745E-03	-4.536E-03	-3.416E-03	-2.740E-03	-1.963E-03	-1.377E-03
120	-8.265E-02	-6.531E-02	-5.388E-02	-3.982E-02	-2.858E-02	-1.941E-02	-1.469E-02	-9.882E-03	-7.445E-03	-5.971E-03	-4.278E-03	-3.001E-03
150	-1.762E-01	-1.458E-01	-1.232E-01	-9.329E-02	-6.790E-02	-4.649E-02	-3.529E-02	-2.779E-02	-1.794E-02	-1.439E-02	-1.031E-02	-7.238E-03
179	-3.969E-02	-5.092E-02	-6.198E-02	-8.350E-02	-1.160E-01	-1.586E-01	-1.942E-01	-2.390E-01	-2.558E-01	-2.554E-01	-2.331E-01	-1.917E-01

DEG	1.0F-03	1.5E-03	2.0E-03	3.0F-03	4.0F-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-2.203E-04	7.010E-08	-8.420E-08	2.530E-07	-1.124E-07	2.955E-07	2.793E-07	5.406E-07	1.300E-06	1.892E-06	2.851E-06	4.0E-02
2	-1.227E-07	5.250E-07	-1.403E-07	-2.518E-07	1.046E-06	1.194E-07	2.627E-06	1.336E-06	3.941E-06	7.473E-06	8.054E-06	8.402E-06
3	-2.672E-07	1.374E-06	1.472E-06	3.208E-06	-0.597E-07	2.965E-06	4.163E-06	1.124E-05	2.620E-05	1.528E-05	1.352E-05	1.911E-05
4	1.596E-06	3.562E-06	3.762E-06	8.674E-07	1.707E-06	1.052E-05	2.184E-06	1.124E-05	2.620E-05	1.528E-05	1.352E-05	1.911E-05
6	9.294E-06	1.059E-05	1.684E-05	3.081E-05	2.446E-05	3.970E-05	4.283E-05	5.514E-05	7.779E-05	8.165E-05	5.369E-05	1.223E-05
8	2.574E-05	2.37E-05	2.010E-05	4.951E-05	1.120E-05	2.324E-05	7.77E-05	8.098E-05	-1.594E-05	8.165E-05	1.599E-05	3.016E-04
10	3.809E-05	2.642E-05	3.161E-05	3.854E-05	1.120E-05	2.324E-05	7.77E-05	8.098E-05	-1.594E-05	8.165E-05	1.599E-05	3.016E-04
15	1.249E-04	2.833E-04	1.482E-04	1.827E-04	2.603E-04	7.430E-04	1.781E-04	3.389E-04	1.397E-04	7.395E-04	1.441E-03	1.688E-03
20	2.722E-04	2.342E-04	4.886E-04	5.884E-04	6.097E-04	7.430E-04	1.781E-04	3.389E-04	1.397E-04	7.395E-04	1.441E-03	1.688E-03
30	4.772E-04	2.598E-05	1.489E-05	5.425E-05	2.244E-03	1.890E-03	8.085E-04	4.159E-03	1.377E-03	2.340E-03	2.957E-03	2.882E-03
45	4.307E-03	1.563E-03	5.55E-03	1.661E-03	4.705E-03	9.112E-03	1.262E-02	1.175E-02	6.678E-03	1.796E-03	4.538E-03	2.817E-03
60	9.118E-03	3.798E-03	6.534E-03	1.791E-02	1.940E-02	1.769E-02	1.020E-02	7.151E-02	6.678E-03	1.796E-03	4.538E-03	2.817E-03
75	7.951E-02	2.316E-02	2.553E-02	1.715E-02	5.819E-03	4.344E-03	2.002E-02	3.554E-02	-5.090E-02	-2.241E-02	3.303E-02	3.934E-02
90	2.810E-01	1.641E-01	2.151E-01	2.061E-02	3.629E-02	4.753E-02	6.272E-02	7.664E-02	9.024E-02	-9.876E-02	7.146E-02	7.804E-02
120	-5.333E-02	-6.785E-02	-7.663E-02	-8.755E-02	-9.447E-02	-1.000E-01	-1.040E-01	-1.165E-01	-1.266E-01	-1.342E-01	-1.453E-01	-1.63E-01
150	-4.962E-02	-5.357E-02	-6.61E-02	-8.129E-02	-8.443E-02	-6.795E-02	-7.289E-02	-7.867E-02	-8.601E-02	-9.140E-02	-1.009E-01	-1.082E-01
179	-1.673E-03	-1.833E-03	-1.955E-03	-2.143E-03	-2.243E-03	-2.407E-03	-2.607E-03	-2.827E-03	-3.115E-03	-3.344E-03	-3.709E-03	-4.007E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0F-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	3.531E-06	4.318E-06	5.463E-06	6.637E-06	6.791E-06	7.235E-06	6.906E-06	6.339E-06	5.636E-06	4.646E-06	3.557E-06	2.872E-06
2	1.085E-05	1.659E-05	2.400E-05	2.809E-05	3.091E-05	3.059E-05	2.832E-05	2.558E-05	2.196E-05	1.791E-05	1.384E-05	1.113E-05
3	2.803E-05	4.455E-05	5.97E-05	7.040E-05	7.097E-05	6.833E-05	6.273E-05	5.741E-05	4.859E-05	3.927E-05	2.961E-05	2.374E-05
4	5.812E-05	9.001E-05	1.159E-04	1.293E-04	1.293E-04	1.192E-04	1.079E-04	9.771E-05	8.167E-05	6.530E-05	4.890E-05	3.908E-05
6	1.784E-04	2.470E-04	2.873E-04	2.940E-04	2.799E-04	2.448E-04	2.143E-04	1.901E-04	1.547E-04	1.213E-04	8.948E-05	7.116E-05
8	3.952E-04	4.890E-04	5.217E-04	4.944E-04	4.511E-04	3.721E-04	3.148E-04	2.717E-04	2.159E-04	1.651E-04	1.195E-04	9.401E-05
10	7.076E-04	7.959E-04	7.876E-04	6.944E-04	6.027E-04	4.666E-04	3.775E-04	3.163E-04	2.389E-04	1.755E-04	1.228E-04	9.508E-05
15	1.736E-03	1.614E-03	1.321E-03	9.406E-04	6.070E-04	3.551E-04	1.893E-04	9.311E-05	-2.157E-02	-8.17E-05	-6.297E-05	-6.008E-05
20	2.610E-03	1.988E-03	1.261E-03	3.965E-04	-8.674E-05	5.719E-04	7.702E-04	-8.478E-04	-6.266E-04	-7.858E-04	-6.248E-04	-5.336E-04
30	1.366E-02	7.044E-04	-2.771E-03	-4.494E-03	-5.305E-03	-5.835E-03	-5.807E-03	-5.591E-03	-5.027E-03	-4.248E-03	-3.314E-03	-2.698E-03
45	-1.336E-02	-1.754E-02	-2.090E-02	-2.323E-02	-2.338E-02	-2.338E-02	-2.211E-02	-2.069E-02	-1.806E-02	-1.497E-02	-1.152E-02	-9.325E-03
60	-4.351E-02	-4.861E-02	-5.237E-02	-5.441E-02	-5.429E-02	-5.176E-02	-4.840E-02	-4.505E-02	-3.911E-02	-3.230E-02	-2.482E-02	-2.008E-02
75	-8.252E-02	-8.737E-02	-9.157E-02	-9.382E-02	-9.304E-02	-8.864E-02	-8.307E-02	-7.751E-02	-6.760E-02	-5.609E-02	-4.327E-02	-3.507E-02
90	-1.210E-01	-1.273E-01	-1.324E-01	-1.355E-01	-1.353E-01	-1.306E-01	-1.238E-01	-1.166E-01	-1.030E-01	-8.641E-02	-6.727E-02	-5.478E-02
120	-1.603E-01	-1.706E-01	-1.817E-01	-1.937E-01	-2.009E-01	-2.068E-01	-2.063E-01	-2.023E-01	-1.895E-01	-1.679E-01	-1.371E-01	-1.142E-01
150	-1.145E-01	-1.250E-01	-1.381E-01	-1.559E-01	-1.705E-01	-1.940E-01	-2.118E-01	-2.253E-01	-2.422E-01	-2.504E-01	-2.508E-01	-2.209E-01
179	-4.266E-03	-4.717E-03	-5.400E-03	-6.152E-03	-6.924E-03	-8.359E-03	-9.712E-03	-1.102E-02	-1.358E-02	-1.726E-02	-2.331E-02	-2.927E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0F+00	1.0F+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.068E-06	1.613E-06	1.322E-06	9.714E-07	6.947E-07	4.709E-07	3.562E-07	2.395E-07	1.804E-07	1.447E-07	1.036E-07	7.269E-08
2	7.989E-06	6.272E-06	5.100E-06	3.745E-06	2.677E-06	1.812E-06	1.372E-06	9.215E-07	6.948E-07	5.556E-07	3.980E-07	2.800E-07
3	1.699E-05	1.323E-05	1.083E-05	7.947E-06	5.079E-06	3.899E-06	2.911E-06	1.957E-06	1.474E-06	1.182E-06	8.467E-07	5.940E-07
4	2.794E-05	2.170E-05	1.75E-05	1.302E-05	9.079E-06	6.303E-06	4.666E-06	3.204E-06	2.413E-06	1.935E-06	1.366E-06	9.725E-07
6	5.158E-05	3.918E-05	3.202E-05	2.346E-05	1.675E-05	1.134E-05	8.576E-06	5.765E-06	4.342E-06	3.482E-06	2.494E-06	1.750E-06
8	6.619E-05	5.118E-05	4.176E-05	3.054E-05	2.170E-05	1.475E-05	1.115E-05	7.493E-06	5.643E-06	4.562E-06	3.242E-06	2.274E-06
10	4.889E-05	3.944E-05	3.147E-05	2.509E-05	1.814E-05	1.238E-05	9.281E-06	6.319E-06	4.534E-06	3.438E-06	2.479E-06	1.720E-06
15	1.594E-04	1.097E-04	7.47E-05	5.09E-05	3.44E-05	2.38E-05	1.62E-05	1.09E-05	7.62E-06	5.09E-06	3.509E-06	2.415E-06
20	3.432E-04	2.097E-04	1.55E-04	1.044E-04	7.44E-05	5.134E-05	3.562E-05	2.482E-05	1.719E-04	1.191E-04	8.779E-05	6.293E-05
30	1.956E-03	1.531E-03	1.255E-03	9.244E-04	6.614E-04	4.487E-04	3.394E-04	2.248E-04	1.588E-04	1.091E-04	7.280E-04	5.107E-04
45	6.731E-03	5.238E-03	4.12E-03	3.169E-03	2.247E-03	1.537E-03	1.163E-03	7.817E-04	5.488E-04	3.722E-04	2.373E-04	1.457E-04
60	1.445E-02	1.132E-02	9.281E-03	6.821E-03	4.670E-03	3.196E-03	2.502E-03	1.682E-03	1.267E-03	8.61E-04	5.107E-04	2.973E-04
75	2.453E-02	1.911E-02	1.425E-02	1.195E-02	8.549E-03	5.708E-03	4.304E-03	2.948E-03	2.220E-03	1.781E-03	1.276E-03	8.950E-04
90	3.974E-02	3.177E-02	2.55E-02	1.880E-02	1.345E-02	9.126E-03	6.303E-03	4.642E-03	3.496E-03	2.804E-03	2.009E-03	1.409E-03
120	4.467E-02	6.669E-02	5.18E-02	4.078E-02	2.945E-02	2.167E-02	1.614E-02	1.105E-02	7.622E-03	5.114E-03	3.804E-03	3.073E-03
150	1.807E-01	1.494E-01	1.263E-01	9.455E-02	6.954E-02	4.761E-02	3.104E-02	2.436E-02	1.837E-02	1.474E-02	1.056E-02	7.411E-03
179	-4.105E-02	-5.266E-02	-6.410E-02	-8.635E-02	-1.174E-01	-1.638E-01	-2.006E-01	-2.446E-01	-2.634E-01	-2.677E-01	-2.394E-01	-1.966E-01

CD (48) SHERMAN FUNCTION, JEG-EE OF POLARIZATION OF A SCATTERED ELECTRON BEAM ENERGY (MEV)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	3.639E-04	1.268E-07	-1.416E-01	5.360E-06	9.111E-08	2.112E-07	6.404E-07	6.146E-07	1.315E-06	1.842E-06	2.895E-06	3.293E-06
2	-1.652E-07	4.111E-07	3.179E-07	-2.102E-07	-5.064E-08	2.516E-06	2.516E-06	1.937E-06	4.250E-06	7.185E-06	8.369E-06	8.409E-06
3	1.036E-07	4.927E-07	2.273E-06	6.911E-06	1.954E-07	2.115E-06	4.890E-06	1.977E-06	1.394E-05	1.626E-05	1.388E-05	1.849E-05
4	-8.713E-07	1.403E-06	-3.033E-06	3.268E-06	-6.982E-07	1.026E-05	3.197E-07	8.536E-06	2.683E-05	2.080E-05	1.834E-05	3.492E-05
6	-8.116E-06	7.451E-06	1.613E-05	-9.350E-06	2.704E-05	2.560E-05	-2.322E-06	5.494E-05	3.384E-05	8.830E-06	4.572E-05	1.137E-04
8	2.353E-05	9.795E-06	7.429E-06	4.922E-05	3.167E-06	3.910E-05	2.302E-05	9.404E-05	-8.775E-06	8.307E-06	1.409E-04	2.862E-04
10	-1.793E-05	4.988E-05	-5.210E-05	6.438E-05	2.692E-05	5.564E-06	1.698E-04	5.785E-05	7.773E-05	2.396E-05	3.476E-04	5.76E-04
15	1.662E-04	4.720E-05	2.080E-04	-2.299E-04	2.241E-04	4.244E-04	1.889E-05	3.535E-05	4.984E-05	6.618E-04	1.430E-03	1.758E-03
20	-7.724E-05	3.703E-04	4.933E-04	4.832E-04	2.497E-04	8.553E-05	-8.009E-04	-3.719E-04	1.233E-03	2.294E-03	7.054E-03	3.047E-03
30	-4.292E-03	-6.165E-04	-5.528E-03	-2.690E-03	3.803E-03	8.653E-03	1.295E-02	1.269E-02	7.825E-03	6.498E-03	5.035E-03	3.312E-03
45	8.896E-03	5.457E-03	5.016E-03	1.785E-02	2.042E-02	1.928E-02	1.211E-02	1.003E-02	1.264E-02	2.174E-02	-4.568E-03	9.515E-03
75	5.907E-03	2.307E-02	2.491E-02	1.966E-02	8.371E-03	2.400E-02	1.844E-02	1.480E-02	-5.120E-02	-6.113E-02	-7.296E-02	7.995E-02
90	2.991E-02	1.937E-02	5.040E-02	-1.865E-02	3.572E-02	4.717E-02	-4.333E-02	-7.814E-02	-9.253E-02	-1.015E-01	-1.127E-01	1.198E-01
120	-5.399E-02	-6.940E-02	-7.873E-02	-9.031E-02	-9.778E-02	-1.034E-01	-1.116E-01	-1.205E-01	-1.310E-01	-1.388E-01	-1.503E-01	-1.588E-01
150	-5.139E-02	-5.546E-02	-5.959E-02	-6.360E-02	-6.715E-02	-7.027E-02	-7.533E-02	-8.131E-02	-8.990E-02	-9.448E-02	-1.043E-01	-1.119E-01
179	-1.728E-03	-1.893E-03	-2.019E-03	-2.212E-03	-2.361E-03	-2.485E-03	-2.689E-03	-2.919E-03	-3.217E-03	-3.453E-03	-3.832E-03	-4.140E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	3.039E-06	4.326E-06	5.454E-06	6.665E-06	7.904E-06	7.349E-06	7.041E-06	6.615E-06	5.774E-06	4.768E-06	3.656E-06	2.953E-06
2	1.058E-05	1.616E-05	2.249E-05	2.906E-05	3.184E-05	3.099E-05	2.908E-05	2.659E-05	2.288E-05	1.880E-05	1.430E-05	1.151E-05
3	2.679E-05	4.266E-05	5.950E-05	6.972E-05	7.262E-05	7.033E-05	6.490E-05	5.945E-05	5.045E-05	4.079E-05	3.084E-05	2.474E-05
4	5.908E-05	8.728E-05	1.164E-04	1.319E-04	1.379E-04	1.235E-04	1.121E-04	1.018E-04	8.573E-05	6.815E-05	5.125E-05	4.059E-05
6	1.719E-04	2.662E-04	3.923E-04	5.037E-04	5.913E-04	4.567E-04	3.257E-04	2.007E-04	1.640E-04	1.247E-04	9.511E-05	7.597E-05
8	3.896E-04	4.952E-04	5.783E-04	5.172E-04	4.764E-04	3.961E-04	3.362E-04	2.922E-04	2.324E-04	1.783E-04	1.294E-04	1.020E-04
10	7.097E-04	8.180E-04	8.229E-04	7.367E-04	6.644E-04	5.049E-04	4.111E-04	3.485E-04	2.639E-04	1.953E-04	1.375E-04	1.068E-04
15	1.804E-03	1.712E-03	1.440E-03	1.043E-03	7.650E-04	4.619E-04	2.533E-04	1.480E-04	4.697E-05	1.933E-05	-3.765E-05	-4.002E-05
20	2.804E-03	2.195E-03	1.413E-03	5.990E-04	5.727E-05	4.675E-04	8.860E-04	-7.71E-04	-8.087E-04	-7.457E-04	-6.143E-04	-5.114E-04
30	1.826E-03	3.980E-04	-2.490E-03	-3.15E-03	5.182E-03	-5.772E-03	-5.772E-03	-5.772E-03	-5.024E-03	-4.252E-03	-3.320E-03	-2.704E-03
45	-1.297E-02	-1.741E-02	-2.691E-02	-2.346E-02	-2.477E-02	-2.371E-02	-2.244E-02	-2.101E-02	-1.835E-02	-1.520E-02	-1.170E-02	-9.475E-03
60	-4.407E-02	-4.946E-02	-5.742E-02	-5.557E-02	-5.544E-02	-5.289E-02	-4.945E-02	-4.601E-02	-3.994E-02	-3.298E-02	-2.534E-02	-2.050E-02
75	-8.459E-02	-9.028E-02	-9.742E-02	-9.631E-02	-9.249E-02	-9.088E-02	-8.512E-02	-7.939E-02	-6.919E-02	-5.738E-02	-4.424E-02	-3.586E-02
90	-1.247E-01	-1.312E-01	-1.364E-01	-1.395E-01	-1.392E-01	-1.342E-01	-1.271E-01	-1.196E-01	-1.056E-01	-8.850E-02	-6.886E-02	-5.605E-02
120	-1.657E-01	-1.763E-01	-1.871E-01	-1.999E-01	-2.071E-01	-2.130E-01	-2.123E-01	-2.080E-01	-1.946E-01	-1.723E-01	-1.405E-01	-1.170E-01
150	-1.183E-01	-1.293E-01	-1.428E-01	-1.611E-01	-1.762E-01	-2.004E-01	-2.186E-01	-2.324E-01	-2.495E-01	-2.577E-01	-2.476E-01	-2.267E-01
179	-4.409E-03	-4.876E-03	-5.449E-03	-6.361E-03	-7.162E-03	-8.644E-03	-1.004E-02	-1.139E-02	-1.402E-02	-1.785E-02	-2.410E-02	-3.026E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.127E-06	1.660E-06	1.361E-06	9.996E-07	7.144E-07	4.846E-07	3.665E-07	2.464E-07	1.856E-07	1.489E-07	1.036E-07	7.481E-08
2	8.264E-06	6.442E-06	5.271E-06	3.873E-06	2.70E-06	1.877E-06	1.420E-06	9.566E-07	7.190E-07	5.766E-07	4.131E-07	2.898E-07
3	1.771E-05	1.379E-05	1.129E-05	8.287E-06	5.927E-06	4.014E-06	3.035E-06	2.040E-06	1.537E-06	1.233E-06	8.829E-07	6.194E-07
4	2.927E-05	2.277E-05	1.864E-05	1.367E-05	9.77E-06	6.615E-06	5.002E-06	3.639E-06	2.533E-06	2.031E-06	1.455E-06	1.021E-06
6	5.375E-05	4.171E-05	3.409E-05	2.498E-05	1.743E-05	1.208E-05	9.134E-06	6.139E-06	4.624E-06	3.708E-06	2.656E-06	1.863E-06
8	7.187E-05	5.560E-05	4.533E-05	3.320E-05	2.364E-05	1.603E-05	1.212E-05	8.146E-06	6.135E-06	4.920E-06	3.524E-06	2.472E-06
10	7.430E-05	5.717E-05	4.654E-05	3.395E-05	2.414E-05	1.636E-05	1.236E-05	8.306E-06	6.255E-06	5.016E-06	3.593E-06	2.521E-06
15	-3.472E-05	-2.896E-05	-2.450E-05	-1.852E-05	-1.364E-05	-9.206E-06	-6.985E-06	-4.707E-06	-3.548E-06	-2.847E-06	-2.040E-06	-1.432E-06
20	-3.777E-04	-2.977E-04	-2.454E-04	-1.810E-04	-1.298E-04	-8.511E-05	-6.660E-05	-4.855E-05	-3.38E-05	-2.710E-05	-1.941E-05	-1.362E-05
30	-1.961E-03	-1.535E-03	-1.260E-03	-8.273E-04	-6.36E-04	-4.501E-04	-3.409E-04	-2.289E-04	-1.724E-04	-1.383E-04	-9.908E-05	-6.951E-05
45	-8.839E-03	-5.343E-03	-4.381E-03	-3.220E-03	-2.304E-03	-1.562E-03	-1.181E-03	-7.943E-04	-5.983E-04	-4.798E-04	-3.437E-04	-2.411E-04
60	-1.479E-02	-1.155E-02	-9.470E-03	-6.960E-03	-4.974E-03	-3.375E-03	-2.553E-03	-1.716E-03	-1.293E-03	-1.037E-03	-7.428E-04	-5.211E-04
75	-2.591E-02	-2.025E-02	-1.661E-02	-1.221E-02	-8.173E-03	-5.924E-03	-4.481E-03	-3.013E-03	-2.269E-03	-1.820E-03	-1.304E-03	-9.147E-04
90	-4.066E-02	-3.183E-02	-2.613E-02	-1.923E-02	-1.373E-02	-9.334E-03	-7.061E-03	-4.748E-03	-3.576E-03	-2.868E-03	-2.055E-03	-1.442E-03
120	-8.660E-02	-6.848E-02	-5.648E-02	-4.179E-02	-2.944E-02	-2.034E-02	-1.539E-02	-1.035E-02	-7.800E-03	-6.257E-03	-4.485E-03	-3.145E-03
150	-1.852E-01	-1.531E-01	-1.293E-01	-9.784E-02	-7.114E-02	-4.873E-02	-3.699E-02	-2.493E-02	-1.880E-02	-1.508E-02	-1.081E-02	-7.584E-03
179	-4.244E-02	-5.444E-02	-6.642E-02	-8.924E-02	-1.212E-01	-1.692E-01	-2.070E-01	-2.539E-01	-2.710E-01	-2.700E-01	-2.457E-01	-2.015E-01

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	8.392E-04	-1.599E-07	-1.775E-07	1.684E-07	-8.695E-08	6.821E-08	9.413E-08	7.753E-07	7.404E-07	1.793E-06	2.907E-06	3.367E-06
2	1.026E-07	-2.033E-07	-2.498E-07	1.365E-08	1.027E-06	1.027E-06	1.681E-06	1.889E-06	3.833E-06	7.011E-06	8.995E-06	8.483E-06
3	1.026E-07	-2.033E-07	-2.498E-07	1.365E-08	1.027E-06	1.027E-06	1.681E-06	1.889E-06	3.833E-06	7.011E-06	8.995E-06	8.483E-06
4	2.630E-06	-1.618E-07	2.621E-06	1.642E-06	-1.572E-07	5.841E-07	5.790E-06	1.491E-06	1.332E-06	1.677E-05	1.444E-05	1.789E-05
5	-2.310E-06	-9.163E-06	1.575E-05	5.735E-06	-2.801E-06	9.342E-06	1.843E-06	5.927E-06	2.892E-05	2.390E-05	1.835E-05	3.211E-05
6	-2.310E-06	-9.163E-06	1.575E-05	5.735E-06	-2.801E-06	9.342E-06	1.843E-06	5.927E-06	2.892E-05	2.390E-05	1.835E-05	3.211E-05
7	-1.232E-05	-5.466E-06	8.256E-06	3.474E-05	1.944E-05	-4.032E-05	4.853E-05	1.063E-04	5.141E-07	1.127E-05	3.826E-05	1.051E-04
8	1.101E-05	6.422E-05	6.302E-05	8.515E-05	-7.074E-05	-3.406E-05	1.679E-04	8.729E-05	-8.061E-05	4.055E-06	1.214E-04	2.726E-04
10	1.703E-04	-1.211E-04	-2.572E-04	1.474E-04	1.474E-04	4.361E-04	1.215E-04	3.533E-04	-3.959E-04	5.761E-04	1.508E-03	5.608E-04
15	3.834E-04	-4.702E-04	4.780E-04	3.463E-04	8.244E-04	-2.538E-04	7.759E-04	5.300E-04	1.073E-03	2.277E-03	3.136E-03	3.204E-03
20	3.558E-04	-4.812E-04	4.780E-04	3.463E-04	8.244E-04	-2.538E-04	7.759E-04	5.300E-04	1.073E-03	2.277E-03	3.136E-03	3.204E-03
30	4.031E-03	4.128E-04	5.318E-03	3.698E-03	2.810E-03	8.088E-03	1.320E-02	1.360E-02	6.453E-03	3.994E-03	5.537E-03	3.829E-03
40	8.368E-03	7.064E-03	3.544E-03	1.758E-02	2.170E-02	2.081E-02	1.408E-02	2.828E-02	1.138E-02	-2.096E-02	-3.711E-03	8.899E-03
50	3.678E-03	2.270E-02	2.811E-02	2.218E-02	1.104E-02	3.411E-02	1.677E-02	-3.411E-02	-5.139E-02	-6.190E-02	-7.441E-02	8.176E-02
75	3.678E-03	2.270E-02	2.811E-02	2.218E-02	1.104E-02	3.411E-02	1.677E-02	-3.411E-02	-5.139E-02	-6.190E-02	-7.441E-02	8.176E-02
90	5.432E-02	2.237E-02	8.082E-02	1.647E-02	-3.949E-02	-4.665E-02	-6.385E-02	-7.956E-02	-9.478E-02	-1.042E-01	-1.160E-01	-1.235E-01
120	5.432E-02	2.237E-02	8.082E-02	1.647E-02	-3.949E-02	-4.665E-02	-6.385E-02	-7.956E-02	-9.478E-02	-1.042E-01	-1.160E-01	-1.235E-01
150	-4.319E-02	-5.738E-02	-6.060E-02	-6.555E-02	-6.741E-02	-7.262E-02	-7.785E-02	-8.399E-02	-9.111E-02	-9.799E-02	-1.078E-01	-1.156E-01
179	-1.783E-03	-1.953E-03	-2.084E-03	-2.283E-03	-2.443E-03	-2.563E-03	-2.770E-03	-3.011E-03	-3.319E-03	-3.564E-03	-3.955E-03	-4.274E-03
5.0E-02	7.0E-02	1.0E+00	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+00	1.5E+00	2.0E+00	
DEG	3.0E-02	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+01
1	3.068E-06	5.444E-06	6.685E-06	7.299E-04	1.616E-03	1.549E-04	8.618E-04	5.124E-04	4.575E-04	3.776E-04	2.896E-04	1.919E-04
2	1.037E-05	2.572E-05	2.947E-05	3.174E-05	3.174E-05	3.174E-05	3.174E-05	3.174E-05	3.174E-05	3.174E-05	3.174E-05	3.174E-05
3	2.558E-05	4.201E-05	5.897E-05	7.144E-05	7.144E-05	7.144E-05	7.144E-05	7.144E-05	7.144E-05	7.144E-05	7.144E-05	7.144E-05
4	5.199E-05	8.602E-05	1.162E-04	1.341E-04	1.341E-04	1.341E-04	1.341E-04	1.341E-04	1.341E-04	1.341E-04	1.341E-04	1.341E-04
6	1.647E-04	2.444E-04	3.130E-04	3.130E-04	3.130E-04	3.130E-04	3.130E-04	3.130E-04	3.130E-04	3.130E-04	3.130E-04	3.130E-04
8	3.804E-04	4.997E-04	5.535E-04	5.396E-04	5.396E-04	5.396E-04	5.396E-04	5.396E-04	5.396E-04	5.396E-04	5.396E-04	5.396E-04
10	7.091E-04	8.374E-04	8.567E-04	7.770E-04	6.847E-04	5.437E-04	4.575E-04	3.776E-04	2.896E-04	1.919E-04	1.088E-04	8.011E-05
15	1.868E-03	1.808E-03	1.549E-03	1.148E-03	8.618E-04	5.124E-04	4.575E-04	3.776E-04	2.896E-04	1.919E-04	1.088E-04	8.011E-05
20	2.998E-03	2.912E-03	2.184E-03	1.112E-03	5.079E-04	-3.536E-04	-5.953E-04	-2.096E-04	-9.275E-05	-2.361E-05	-1.528E-04	-1.190E-04
30	4.250E-03	5.961E-03	4.112E-03	-4.112E-03	-5.079E-04	-3.536E-04	-5.953E-04	-2.096E-04	-9.275E-05	-2.361E-05	-1.528E-04	-1.190E-04
45	-1.254E-02	-1.723E-02	-2.094E-02	-2.365E-02	-2.444E-02	-2.403E-02	-2.276E-02	-2.132E-02	-1.862E-02	-1.543E-02	-1.188E-02	-9.620E-03
60	-4.457E-02	-5.025E-02	-5.443E-02	-5.671E-02	-5.671E-02	-5.671E-02	-5.671E-02	-5.671E-02	-5.671E-02	-5.671E-02	-5.671E-02	-5.671E-02
75	-8.663E-02	-9.257E-02	-9.886E-02	-9.879E-02	-9.791E-02	-9.311E-02	-8.468E-02	-6.686E-02	-4.075E-02	-3.364E-02	-2.584E-02	-2.090E-02
90	-1.284E-01	-1.351E-01	-1.404E-01	-1.439E-01	-1.439E-01	-1.439E-01	-1.439E-01	-1.439E-01	-1.439E-01	-1.439E-01	-1.439E-01	-1.439E-01
120	-1.712E-01	-1.821E-01	-1.938E-01	-2.062E-01	-2.135E-01	-2.193E-01	-2.183E-01	-2.137E-01	-1.998E-01	-1.766E-01	-1.439E-01	-1.193E-01
150	-1.223E-01	-1.336E-01	-1.475E-01	-1.664E-01	-1.820E-01	-2.068E-01	-2.255E-01	-2.395E-01	-2.569E-01	-2.650E-01	-2.540E-01	-2.325E-01
179	-4.553E-03	-5.036E-03	-5.662E-03	-6.574E-03	-7.440E-03	-8.933E-03	-1.038E-02	-1.177E-02	-1.448E-02	-1.844E-02	-2.690E-02	-3.121E-02
3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+01	1.0E+02
DEG	2.184E-06	1.705E-06	1.398E-06	1.027E-06	7.344E-07	4.979E-07	3.766E-07	2.532E-07	1.907E-07	1.599E-07	1.076E-07	7.686E-08
1	2.184E-06	1.705E-06	1.398E-06	1.027E-06	7.344E-07	4.979E-07	3.766E-07	2.532E-07	1.907E-07	1.599E-07	1.076E-07	7.686E-08
2	8.581E-06	6.911E-06	5.481E-06	4.025E-06	2.877E-06	1.950E-06	1.475E-06	1.027E-06	7.344E-07	4.979E-07	3.766E-07	2.532E-07
3	1.843E-05	1.435E-05	1.175E-05	8.626E-06	6.145E-06	4.178E-06	3.160E-06	2.124E-06	1.600E-06	1.283E-06	9.191E-07	6.444E-07
4	3.065E-05	2.384E-05	1.951E-05	1.431E-05	1.027E-05	6.929E-06	5.240E-06	3.523E-06	2.653E-06	2.128E-06	1.524E-06	1.069E-06
6	5.697E-05	4.422E-05	3.413E-05	2.649E-05	1.891E-05	1.291E-05	9.701E-06	6.521E-06	4.911E-06	3.939E-06	2.821E-06	1.979E-06
8	7.792E-05	6.015E-05	4.910E-05	3.593E-05	2.567E-05	1.736E-05	1.312E-05	8.818E-06	6.641E-06	5.376E-06	3.815E-06	2.676E-06
10	8.299E-05	6.392E-05	5.204E-05	3.800E-05	2.677E-05	1.832E-05	1.384E-05	9.302E-06	7.005E-06	5.618E-06	4.024E-06	2.823E-06
15	-1.963E-05	-1.727E-05	-1.496E-05	-1.154E-05	-8.474E-06	-5.830E-06	-4.333E-06	-2.992E-06	-2.256E-06	-1.811E-06	-1.298E-06	-9.109E-07
20	-3.606E-04	-2.845E-04	-2.345E-04	-1.732E-04	-1.242E-04	-8.433E-05	-6.362E-05	-4.292E-05	-3.233E-05	-2.594E-05	-1.835E-05	-1.304E-05
30	-1.964E-03	-5.455E-03	-1.262E-03	-9.288E-04	-6.047E-04	-4.508E-04	-3.101E-04	-2.129E-04	-1.277E-04	-8.135E-05	-5.490E-05	-3.662E-05
45	-6.943E-03	-5.455E-03	-4.449E-03	-3.270E-03	-2.339E-03	-1.586E-03	-1.199E-03	-8.065E-04	-6.074E-04	-4.872E-04	-3.490E-04	-2.449E-04
60	-1.188E-02	-9.657E-03	-7.657E-03	-7.097E-03	-5.074E-03	-3.442E-03	-2.603E-03	-1.750E-03	-1.318E-03	-1.072E-03	-7.574E-04	-5.319E-04
75	-2.647E-02	-2.059E-02	-1.649E-02	-1.248E-02	-8.192E-03	-5.052E-03	-4.578E-03	-3.078E-03	-2.318E-03	-1.859E-03	-1.332E-03	-9.344E-04
90	-4.158E-02	-3.255E-02	-2.672E-02	-2.124E-02	-1.607E-02	-9.542E-03	-7.219E-03	-4.854E-03	-3.656E-03	-2.932E-03	-2.101E-03	-1.474E-03
120	-8.871E-02	-7.006E-02	-5.776E-02	-4.269E-02	-3.047E-02	-2.000E-02	-1.575E-02	-1.059E-02	-7.978E-03	-6.399E-03	-4.565E-03	-3.210E-03
150	-1.897E-01	-1.507E-01	-1.324E-01	-1.001E-01	-7.282E-02	-4.985E-02	-3.783E-02	-2.559E-02	-1.923E-02	-1.543E-02	-1.106E-02	-7.759E-03
179	-3.84E-02	-5.624E-02	-6.444E-02	-9.218E-02	-1.267E-01	-1.766E-01	-2.134E-01	-2.615E-01	-2.787E-01	-2.774E-01	-2.521E-01	-2.063E-01

SN	(50)	SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)			
DEG		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02		
1	7.657E-08	-1.890E-07	9.269E-08	-9.088E-08	2.221E-07	-1.218E-08	2.244E-07	9.141E-07	9.656E-07	1.750E-06	2.914E-06	3.439E-06			
2	4.645E-07	-4.059E-07	-6.745E-07	3.231E-07	1.181E-06	-6.740E-07	1.620E-06	2.724E-06	2.917E-06	7.064E-06	9.066E-06	8.625E-06			
3	1.567E-06	1.477E-06	1.869E-06	7.963E-07	1.245E-06	-7.557E-07	6.893E-06	8.277E-07	1.205E-05	1.758E-05	1.494E-05	1.706E-05			
4	-2.588E-06	-3.107E-06	1.214E-06	7.121E-06	-3.692E-06	7.800E-06	4.407E-06	3.222E-06	2.890E-05	2.646E-05	1.844E-05	2.980E-05			
6	5.176E-06	6.911E-06	5.320E-06	-1.502E-05	2.447E-05	1.737E-05	-1.320E-05	4.852E-05	4.900E-05	1.505E-05	3.193E-05	9.573E-05			
8	-3.828E-06	-2.044E-05	2.432E-05	2.002E-05	3.953E-05	-3.698E-05	3.145E-05	1.155E-04	1.248E-05	-2.130E-05	1.022E-04	2.557E-04			
10	3.692E-05	6.514E-05	-6.209E-05	9.805E-05	-5.616E-05	-5.910E-05	1.589E-04	1.172E-04	-7.827E-05	-2.981E-05	2.830E-04	5.411E-04			
15	1.353E-04	-1.768E-04	2.580E-04	-2.605E-04	6.424E-04	4.284E-04	2.070E-04	-3.400E-04	-1.257E-04	4.849E-04	1.377E-03	1.781E-03			
20	-3.393E-04	5.195E-04	-3.350E-04	1.843E-04	8.663E-04	4.294E-04	-7.205E-04	-6.764E-04	8.972E-04	2.139E-03	3.203E-03	3.354E-03			
30	7.745E-04	-1.177E-03	1.555E-03	7.538E-04	-1.937E-03	-2.616E-03	-5.996E-04	3.303E-03	6.524E-03	7.164E-03	6.042E-03	4.354E-03			
45	3.525E-03	1.486E-03	-4.924E-03	-4.661E-03	1.718E-03	7.360E-03	1.332E-02	1.446E-02	1.022E-02	5.178E-03	-2.785E-03	-8.215E-03			
60	-7.534E-03	-8.581E-03	1.570E-03	1.711E-02	2.243E-02	2.226E-02	1.608E-02	4.757E-02	-9.989E-02	-2.006E-02	-3.260E-02	-4.007E-02			
75	1.295E-03	2.205E-02	2.910E-02	2.470E-02	1.381E-02	2.916E-03	-1.488E-02	-3.315E-02	-5.145E-02	-6.259E-02	-7.580E-02	-8.354E-02			
90	5.292E-02	2.539E-02	1.127E-02	-1.408E-02	-3.249E-02	-4.593E-02	-6.421E-02	-8.090E-02	-9.698E-02	-1.069E-01	-1.192E-01	-1.268E-01			
120	-5.461E-02	-7.231E-02	-8.291E-02	-9.585E-02	-1.041E-01	-1.192E-01	-1.192E-01	-1.287E-01	-1.399E-01	-1.481E-01	-1.604E-01	-1.695E-01			
150	-5.502E-02	-5.933E-02	-6.264E-02	-6.773E-02	-7.170E-02	-7.500E-02	-8.038E-02	-8.670E-02	-9.477E-02	-1.011E-01	-1.112E-01	-1.193E-01			
179	-1.840E-03	-2.015E-03	-2.149E-03	-2.354E-03	-2.512E-03	-2.643E-03	-2.856E-03	-3.104E-03	-3.422E-03	-3.675E-03	-4.080E-03	-4.410E-03			
DEG		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00		
1	3.727E-06	4.367E-06	5.040E-06	6.697E-06	7.305E-06	7.529E-06	7.283E-06	6.875E-06	5.988E-06	4.999E-06	3.842E-06	3.107E-06			
2	1.022E-05	1.608E-05	2.223E-05	2.920E-05	3.080E-05	3.224E-05	2.964E-05	2.767E-05	2.395E-05	1.964E-05	1.498E-05	1.208E-05			
3	2.446E-05	4.158E-05	5.833E-05	7.201E-05	7.588E-05	7.404E-05	6.888E-05	6.348E-05	5.407E-05	4.388E-05	3.321E-05	2.671E-05			
4	4.888E-05	8.371E-05	1.157E-04	1.360E-04	1.394E-04	1.317E-04	1.204E-04	1.098E-04	9.259E-05	7.444E-05	5.595E-05	4.480E-05			
6	1.563E-04	2.415E-04	3.001E-04	3.217E-04	3.133E-04	2.800E-04	2.484E-04	2.220E-04	1.825E-04	1.440E-04	1.066E-04	8.484E-05			
8	7.713E-04	5.021E-04	5.677E-04	5.613E-04	5.224E-04	4.435E-04	3.801E-04	3.324E-04	2.660E-04	2.058E-04	1.501E-04	1.185E-04			
10	3.047E-04	8.540E-04	8.894E-04	8.180E-04	7.279E-04	5.825E-04	4.811E-04	4.096E-04	3.163E-04	2.370E-04	1.686E-04	1.316E-04			
15	1.926E-03	1.902E-03	1.650E-03	1.257E-03	9.616E-04	5.963E-04	3.940E-04	2.725E-04	1.432E-04	6.267E-05	1.801E-05	3.926E-06			
20	3.186E-03	2.621E-03	1.824E-03	9.094E-04	3.504E-04	-2.362E-04	-4.978E-04	-8.179E-04	-6.863E-04	-6.539E-04	-5.489E-04	-4.603E-04			
30	2.814E-03	4.355E-04	-1.853E-03	-3.888E-03	-4.678E-03	-5.599E-03	-5.665E-03	-5.501E-03	-4.989E-03	-4.239E-03	-3.318E-03	-2.705E-03			
45	-1.205E-02	-1.699E-02	-2.090E-02	-2.381E-02	-2.468E-02	-2.432E-02	-2.306E-02	-2.161E-02	-1.888E-02	-1.565E-02	-1.205E-02	-9.759E-03			
60	-4.501E-02	-5.100E-02	-5.541E-02	-5.783E-02	-5.776E-02	-5.510E-02	-5.150E-02	-4.791E-02	-4.156E-02	-3.430E-02	-2.634E-02	-2.131E-02			
75	-8.864E-02	-9.485E-02	-9.929E-02	-1.013E-01	-1.003E-01	-9.535E-02	-8.920E-02	-8.313E-02	-7.237E-02	-5.995E-02	-4.619E-02	-3.742E-02			
90	-1.321E-01	-1.390E-01	-1.444E-01	-1.475E-01	-1.469E-01	-1.414E-01	-1.337E-01	-1.256E-01	-1.107E-01	-9.269E-02	-7.204E-02	-5.861E-02			
120	-1.768E-01	-1.880E-01	-1.999E-01	-2.126E-01	-2.199E-01	-2.256E-01	-2.244E-01	-2.195E-01	-2.050E-01	-1.810E-01	-1.473E-01	-1.226E-01			
150	-1.262E-01	-1.379E-01	-1.523E-01	-1.718E-01	-1.878E-01	-2.133E-01	-2.324E-01	-2.467E-01	-2.644E-01	-2.724E-01	-2.606E-01	-2.384E-01			
179	-4.698E-03	-5.199E-03	-5.840E-03	-6.788E-03	-7.043E-03	-9.225E-03	-1.072E-02	-1.216E-02	-1.496E-02	-1.904E-02	-2.571E-02	-3.228E-02			
DEG		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02		
1	2.240E-06	1.749E-06	1.434E-06	1.053E-06	7.534E-07	5.108E-07	3.863E-07	2.597E-07	1.956E-07	1.569E-07	1.124E-07	7.885E-08			
2	8.680E-06	6.709E-06	5.442E-06	4.143E-06	2.962E-06	2.008E-06	1.519E-06	1.021E-06	7.680E-07	6.167E-07	4.418E-07	3.099E-07			
3	3.914E-05	1.491E-05	1.221E-05	8.962E-06	6.046E-06	4.341E-06	3.283E-06	2.207E-06	1.662E-06	1.333E-06	9.551E-07	6.700E-07			
4	3.203E-05	2.492E-05	2.040E-05	1.496E-05	1.064E-05	7.245E-06	5.479E-06	3.683E-06	2.774E-06	2.225E-06	1.594E-06	1.118E-06			
6	6.032E-05	4.684E-05	3.829E-05	2.808E-05	2.004E-05	1.357E-05	1.026E-05	6.899E-06	5.196E-06	4.167E-06	2.985E-06	2.094E-06			
8	8.372E-05	6.463E-05	5.292E-05	3.874E-05	2.764E-05	1.872E-05	1.415E-05	9.510E-06	7.162E-06	5.744E-06	4.114E-06	2.886E-06			
10	9.199E-05	7.092E-05	5.777E-05	4.219E-05	3.007E-05	2.035E-05	1.538E-05	1.033E-05	7.783E-06	6.241E-06	4.471E-06	3.136E-06			
15	-3.632E-06	-4.872E-06	-4.832E-06	-4.124E-06	-3.182E-06	-2.246E-06	-1.723E-06	-1.171E-06	-8.850E-07	-7.110E-07	-5.101E-07	-3.581E-07			
20	-3.418E-04	-2.701E-04	-2.227E-04	-1.645E-04	-1.143E-04	-8.017E-05	-6.067E-05	-4.081E-05	-3.074E-05	-2.466E-05	-1.767E-05	-1.239E-05			
30	-1.964E-03	-1.538E-03	-1.262E-03	-9.289E-04	-6.648E-04	-4.509E-04	-3.411E-04	-2.294E-04	-1.728E-04	-1.346E-04	-9.927E-05	-6.964E-05			
45	-7.044E-03	-5.503E-03	-4.513E-03	-3.317E-03	-2.373E-03	-1.609E-03	-1.217E-03	-8.182E-04	-6.163E-04	-4.943E-04	-3.541E-04	-2.484E-04			
60	-1.537E-02	-1.200E-02	-9.842E-03	-7.233E-03	-5.173E-03	-3.507E-03	-2.653E-03	-1.784E-03	-1.343E-03	-1.078E-03	-7.719E-04	-5.415E-04			
75	-2.703E-02	-2.112E-02	-1.733E-02	-1.274E-02	-9.112E-03	-6.179E-03	-4.674E-03	-3.142E-03	-2.367E-03	-1.898E-03	-1.360E-03	-9.540E-04			
90	-4.353E-02	-3.326E-02	-2.730E-02	-2.009E-02	-1.438E-02	-9.751E-03	-7.376E-03	-4.960E-03	-3.736E-03	-2.996E-03	-2.146E-03	-1.506E-03			
120	-9.074E-02	-7.165E-02	-5.908E-02	-4.365E-02	-3.131E-02	-2.127E-02	-1.610E-02	-1.083E-02	-8.156E-03	-6.542E-03	-4.687E-03	-3.288E-03			
150	-1.943E-01	-1.604E-01	-1.354E-01	-1.024E-01	-7.446E-02	-5.097E-02	-3.868E-02	-2.607E-02	-1.966E-02	-1.577E-02	-1.130E-02	-7.931E-03			
179	-4.526E-02	-5.806E-02	-7.063E-02	-9.514E-02	-1.297E-01	-1.801E-01	-2.200E-01	-2.691E-01	-2.865E-01	-2.848E-01	-2.514E-01	-2.114E-01			

SB (51)		SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)	
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
DEG													
1	-1.622F-07	-1.651E-07	1.466E-07	1.353E-07	9.394E-09	-8.254E-08	2.981E-07	3.218E-07	9.539E-07	1.192E-06	2.908E-06	3.506E-06	
2	3.279E-07	-1.077E-07	1.414E-07	3.947E-07	1.097E-06	9.565E-07	1.589E-06	2.836E-06	2.517E-06	6.839E-06	9.636E-06	8.829E-06	
3	2.351E-07	2.081E-06	9.144E-07	-2.582E-07	2.491E-06	-1.020E-06	6.638E-06	9.960E-07	1.133E-05	1.738E-05	1.595E-05	1.686E-05	
4	-5.662E-07	-3.470E-06	3.739E-06	7.036E-06	-4.049E-06	5.165E-06	6.777E-06	9.823E-07	2.867E-05	2.898E-05	1.900E-05	2.777E-05	
6	1.116E-05	1.293E-05	-2.790E-06	-1.296E-05	1.911E-05	2.433E-05	-1.617E-05	4.255E-05	5.690E-05	2.054E-05	2.558E-05	8.547E-05	
8	-1.849F-05	-2.936E-05	3.664E-05	3.050E-06	4.952E-05	-2.899E-05	1.362E-05	1.211E-04	2.659E-05	-2.412E-05	8.273E-05	2.365E-04	
10	5.328E-05	5.218E-05	-4.892E-05	1.013E-04	-3.387E-05	-7.861E-05	1.430E-04	1.459E-04	-7.061E-05	-5.233E-05	2.481E-04	5.177E-04	
15	6.704F-05	-2.042E-04	2.406F-04	-2.390E-04	-2.370E-05	4.008E-04	2.922E-04	-3.103E-04	-2.072E-04	3.881E-04	1.335E-03	1.794E-03	
20	-2.291F-04	5.091E-04	-1.924E-04	6.713E-06	9.119E-04	5.980E-04	-4.352E-04	-8.074E-04	7.091E-04	2.031E-03	3.253E-03	3.494E-03	
30	1.131F-03	-1.464E-03	1.244E-03	1.206E-03	-1.075E-03	-2.735E-03	-1.079E-03	2.918E-03	6.546E-03	7.455E-03	6.548E-03	4.896E-03	
45	2.755E-03	2.559E-03	-4.246E-03	-5.557E-03	6.025E-04	6.532E-03	1.333E-02	1.526E-02	1.145E-02	6.411E-03	-1.790E-03	-7.464E-03	
60	-6.404F-03	-9.968E-03	-3.097E-04	1.641E-02	2.300E-02	2.363E-02	1.810E-02	6.786E-03	-8.475E-03	-1.904E-02	-3.227E-02	-4.016E-02	
75	-1.207F-03	2.111E-02	2.986E-02	2.718E-02	1.064E-02	5.641E-03	-1.281E-02	-3.202E-02	-5.138E-02	-6.317E-02	-7.713E-02	-8.527E-02	
90	3.408F-02	2.839E-02	1.458F-02	-1.147E-02	-3.040E-02	-4.503E-02	-6.443E-02	-8.213E-02	-9.913E-02	-1.096E-01	-1.224E-01	-1.304E-01	
120	-5.476E-02	-7.366E-02	-8.494E-02	-9.863E-02	-1.073E-01	-1.137E-01	-1.230E-01	-1.329E-01	-1.444E-01	-1.529E-01	-1.655E-01	-1.749E-01	
150	-5.687E-02	-6.131E-02	-6.472E-02	-6.995E-02	-7.407E-02	-7.171E-02	-8.295E-02	-8.945E-02	-9.775E-02	-1.043E-01	-1.147E-01	-1.231E-01	
179	-1.897F-03	-2.077E-03	-2.215F-03	-2.426E-03	-2.589E-03	-2.723E-03	-2.942E-03	-3.198E-03	-3.576E-03	-3.787E-03	-4.205E-03	-4.547E-03	
		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
DEG													
1	3.804E-06	3.868E-06	5.221E-06	6.703E-06	7.345E-06	7.582E-06	7.389E-06	6.991E-06	6.150E-06	5.068E-06	3.930E-06	3.180E-06	
2	1.014E-05	1.615E-05	2.292E-05	2.932E-05	3.102E-05	3.210E-05	3.115E-05	2.908E-05	2.504E-05	2.056E-05	1.570E-05	1.265E-05	
3	2.338E-05	3.929E-05	5.750E-05	7.235E-05	7.637E-05	7.572E-05	7.075E-05	6.536E-05	5.583E-05	4.539E-05	3.440E-05	2.764E-05	
4	4.580E-05	8.100E-05	1.149E-04	1.374E-04	1.423E-04	1.355E-04	1.244E-04	1.137E-04	9.616E-05	7.746E-05	5.830E-05	4.671E-05	
6	1.475E-04	2.371E-04	3.025E-04	3.297E-04	3.237E-04	2.916E-04	2.598E-04	2.327E-04	1.918E-04	1.517E-04	1.127E-04	8.957E-05	
8	3.589E-04	5.024E-04	5.801E-04	5.830E-04	5.461E-04	4.674E-04	4.031E-04	3.531E-04	2.836E-04	2.200E-04	1.608E-04	1.271E-04	
10	6.954E-04	8.674E-04	9.203E-04	8.586E-04	7.102E-04	6.226E-04	5.173E-04	4.424E-04	3.436E-04	2.589E-04	1.850E-04	1.447E-04	
15	1.977F-03	1.767F-03	1.367F-03	1.065E-03	6.838E-04	4.692E-04	3.384E-04	1.962E-04	1.039E-04	4.820E-05	2.783E-05		
20	3.372E-03	2.838E-03	2.038E-03	1.097E-03	5.135E-04	-1.092E-04	-3.935E-04	-5.292E-04	-6.176E-04	-6.021E-04	-5.117E-04	-4.311E-04	
30	3.339F-03	8.908E-04	-1.496E-03	-3.640E-03	-4.696E-03	-5.489E-03	-5.591E-03	-5.448E-03	-4.957E-03	-4.221E-03	-3.309E-03	-2.699E-03	
45	-1.149F-02	-1.670E-02	-2.094E-02	-2.394E-02	-2.449E-02	-2.459E-02	-2.188E-02	-2.188E-02	-1.913E-02	-1.587E-02	-1.222F-02	-9.893E-03	
60	-4.537E-02	-5.170E-02	-5.635E-02	-5.892E-02	-5.888E-02	-5.618E-02	-5.251E-02	-4.884E-02	-4.236E-02	-3.495E-02	-2.684E-02	-2.170E-02	
75	-9.062E-02	-9.710E-02	-1.017E-01	-1.037E-01	-1.027E-01	-9.758E-02	-9.124E-02	-8.494E-02	-7.395E-02	-6.123E-02	-4.716E-02	-3.820E-02	
90	-1.359F-01	-1.429E-01	-1.485E-01	-1.515E-01	-1.509F-01	-1.450E-01	-1.370E-01	-1.287E-01	-1.133E-01	-9.478E-02	-7.363E-02	-5.989E-02	
120	-1.824F-01	-1.939E-01	-2.061E-01	-2.190E-01	-2.244E-01	-2.320E-01	-2.305E-01	-2.253E-01	-2.102E-01	-1.854F-01	-1.507E-01	-1.254E-01	
150	-1.302F-01	-1.423E-01	-1.571E-01	-1.772E-01	-1.937E-01	-2.198E-01	-2.394E-01	-2.540E-01	-2.720E-01	-2.798E-01	-2.673E-01	-2.443E-01	
179	-4.844F-03	-5.362E-03	-6.031F-03	-7.004E-03	-7.887E-03	-9.520E-03	-1.106E-02	-1.255E-02	-1.543E-02	-1.965F-02	-2.653E-02	-3.331E-02	
		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
DEG													
1	2.293F-06	1.791E-06	1.466F-06	1.079E-06	7.718E-07	5.232E-07	3.958E-07	2.661E-07	2.004E-07	1.607E-07	1.151F-07	8.078E-08	
2	9.099E-06	7.097E-06	5.816E-06	4.271E-06	3.084E-06	2.070E-06	1.566E-06	1.053E-06	7.928E-07	6.358E-07	4.555E-07	3.195E-07	
3	1.982F-05	1.546E-05	1.266E-05	9.296E-06	6.644E-06	4.503E-06	3.406E-06	2.289F-06	1.724E-06	1.383E-06	9.907E-07	6.950E-07	
4	3.341F-05	2.690E-05	2.128F-05	1.561E-05	1.114E-05	7.560E-06	5.717E-06	3.843E-06	2.895E-06	2.322E-06	1.663E-06	1.167E-06	
6	6.373E-05	4.949E-05	4.046E-05	2.966E-05	2.119E-05	1.435E-05	1.085E-05	7.293E-06	5.492E-06	4.405E-06	3.155E-06	2.214E-06	
8	8.988F-05	6.962E-05	5.685E-05	4.162E-05	2.970E-05	2.011E-05	1.520E-05	1.022E-05	7.696E-06	6.172E-06	4.421E-06	3.102E-06	
10	1.013E-04	7.816E-05	6.370E-05	4.654E-05	3.318E-05	2.245E-05	1.697E-05	1.140E-05	8.588E-06	6.887E-06	4.934E-06	3.461E-06	
15	1.330F-05	8.251E-06	5.185E-06	3.725E-06	2.470E-06	1.548E-06	1.145E-06	7.574E-07	5.671E-07	4.536E-07	3.241E-07	2.271E-07	
20	-3.214F-04	-2.543E-04	-2.094E-04	-1.551E-04	-1.117E-04	-7.562E-05	-5.724E-05	-3.850E-05	-2.901E-05	-2.327E-05	-1.667E-05	-1.169E-05	
30	-1.963F-03	-1.535E-03	-1.261F-03	-9.276E-04	-6.639E-04	-4.503E-04	-3.407E-04	-2.291E-04	-1.725E-04	-1.384E-04	-9.914E-05	-6.955E-05	
45	-7.141F-03	-5.579E-03	-4.576E-03	-3.363E-03	-2.406E-03	-1.631E-03	-1.234E-03	-8.295E-04	-6.248E-04	-5.011E-04	-3.590F-04	-2.518E-04	
60	-1.565F-02	-1.223E-02	-1.002E-02	-7.367E-03	-5.269E-03	-3.572E-03	-2.702E-03	-1.817E-03	-1.368E-03	-1.097E-03	-7.862E-04	-5.515E-04	
75	-2.759E-02	-2.156E-02	-1.760F-02	-1.300E-02	-9.299E-03	-6.305E-03	-4.769E-03	-3.207E-03	-2.415E-03	-1.937E-03	-1.388E-03	-9.735E-04	
90	-4.341E-02	-3.398E-02	-2.789E-02	-2.052E-02	-1.448E-02	-9.958E-03	-7.533E-03	-5.065E-03	-3.815E-03	-3.060E-03	-2.192F-03	-1.538E-03	
120	-9.276F-02	-7.323E-02	-6.030F-02	-4.461E-02	-3.200E-02	-2.173E-02	-1.543E-02	-1.106E-02	-8.335E-03	-6.685E-03	-4.789E-03	-3.360E-03	
150	-1.989F-01	-1.641E-01	-1.385E-01	-1.047E-01	-7.611E-02	-5.209E-02	-3.953E-02	-2.665E-02	-2.009E-02	-1.612E-02	-1.155E-02	-8.105E-03	
179	-4.671E-02	-5.990E-02	-7.289E-02	-9.815E-02	-1.338E-01	-1.856E-01	-2.266E-01	-2.768E-01	-2.943E-01	-2.923E-01	-2.648E-01	-2.164E-01	

TE (52) SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM ENERGY (MEV)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-1.954E-07	-1.136E-07	5.629E-09	-1.133E-07	4.347E-08	-1.295E-07	2.835E-07	2.451E-07	1.486E-06	9.920E-07	2.888E-06	4.0E-02
2	3.652E-07	1.911E-07	4.459E-07	1.140E-06	1.113E-07	1.504E-06	4.072E-07	2.865E-06	1.943E-06	6.464E-06	8.926E-06	1.910E-05
3	-9.760E-07	-1.912E-06	-4.558E-07	-1.243E-06	-3.440E-06	-1.421E-06	6.564E-06	1.604E-06	1.005E-05	1.817E-05	1.700E-05	1.727E-05
4	1.888E-06	-2.079E-06	5.353E-06	6.469E-06	3.049E-06	2.349E-06	9.342E-06	-7.506E-07	2.783E-05	2.675E-05	2.002E-05	2.647E-05
6	1.204E-05	1.556E-05	-9.594E-06	8.017E-06	1.182E-05	3.020E-05	-1.682E-05	3.536E-05	6.384E-05	2.675E-05	2.066E-05	7.599E-05
8	-2.607E-05	-2.793E-05	-2.522E-05	9.374E-05	6.070E-05	-1.620E-05	1.387E-06	1.240E-04	4.267E-05	-2.344E-05	6.316E-05	2.166E-04
10	5.295E-05	1.720E-05	-1.935E-04	1.938E-04	-1.115E-04	3.542E-04	1.208E-04	1.727E-04	-5.795E-05	-7.094E-05	2.110E-04	4.908E-04
15	-6.875E-05	4.376E-04	-2.100E-05	-1.758E-04	8.974E-04	7.551E-04	3.736E-04	-2.662E-04	-2.823E-04	2.875E-04	1.282E-03	1.798E-03
20	1.382E-03	1.649E-03	6.506E-04	1.638E-03	-1.345E-03	-2.782E-03	-1.548E-03	2.488E-03	5.106E-04	1.902E-03	3.285E-03	3.523E-03
35	1.871E-03	3.589E-03	-3.595E-03	-6.362E-03	-5.691E-04	5.589E-03	1.321E-02	1.589E-02	6.517E-03	7.712E-03	7.050E-03	5.525E-03
60	4.998E-03	-1.119E-02	-2.255E-03	1.550E-02	2.339E-02	2.488E-02	2.013E-02	8.909E-02	1.693E-02	1.769E-02	-2.611E-04	-6.041E-02
75	3.789E-03	1.987E-02	3.038E-02	2.960E-02	1.959E-02	8.506E-02	-1.056E-02	3.072E-02	-5.118E-02	-6.365E-02	-7.838E-02	-8.695E-02
90	3.497E-02	3.136E-02	1.800E-02	-8.645E-02	-2.689E-02	4.391E-02	-6.49E-02	-8.327E-02	1.012E-01	-1.122E-01	-1.256E-01	-1.339E-01
120	-5.476E-02	-7.492E-02	-8.692E-02	-1.014E-01	-1.105E-01	-1.172E-01	-1.264E-01	-1.371E-01	-1.490E-01	-1.578E-01	-1.708E-01	-1.804E-01
150	-5.876E-02	-6.333E-02	-6.482E-02	-7.220E-02	-7.638E-02	-7.986E-02	-8.554E-02	-9.223E-02	-1.008E-01	-1.075E-01	-1.183E-01	-1.269E-01
179	-1.955E-02	-2.140E-03	-2.282E-03	-2.499E-03	-2.654E-03	-2.804E-03	-3.029E-03	-3.293E-03	-3.631E-03	-3.900E-03	-4.331E-03	-4.684E-03
5.0E-02	7.0E-02	1.0E-01	1.5E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	3.181E-06	4.443E-06	4.980E-06	6.549E-06	7.177E-06	7.600E-06	7.463E-06	7.099E-06	6.262E-06	5.209E-06	4.014E-06	3.250E-06
2	1.012E-05	1.583E-05	2.142E-05	2.924E-05	3.159E-05	3.329E-05	3.175E-05	2.972E-05	2.581E-05	2.094E-05	1.601E-05	1.292E-05
3	2.250E-05	3.780E-05	5.161E-05	7.251E-05	7.649E-05	7.730E-05	7.283E-05	6.718E-05	5.761E-05	4.647E-05	3.557E-05	2.800E-05
4	4.300E-05	7.806E-05	1.136E-04	1.388E-04	1.444E-04	1.393E-04	1.293E-04	1.176E-04	9.956E-05	8.045E-05	6.064E-05	4.861E-05
6	1.381E-04	2.321E-04	3.639E-04	3.372E-04	3.377E-04	3.030E-04	2.707E-04	2.434E-04	2.012E-04	1.593E-04	1.186E-04	9.236E-05
8	3.441E-04	5.005E-04	5.907E-04	6.031E-04	5.693E-04	4.914E-04	4.256E-04	3.739E-04	3.014E-04	2.342E-04	1.718E-04	1.359E-04
10	6.827E-04	8.776E-04	9.491E-04	8.985E-04	8.124E-04	6.631E-04	5.549E-04	4.760E-04	3.718E-04	2.814E-04	2.019E-04	1.582E-04
15	2.352E-03	2.808E-03	2.799E-03	1.480E-03	1.171E-03	7.747E-04	5.477E-04	4.075E-04	2.519E-04	1.477E-04	8.003E-05	5.305E-05
20	3.885E-03	3.057E-03	2.299E-03	1.293E-03	6.847E-04	2.565E-05	-8.82E-04	-5.343E-04	-5.437E-04	-5.462E-04	-4.715E-04	-3.996E-04
35	1.096E-02	1.371E-03	-2.011E-02	-3.369E-03	-4.493E-03	-5.362E-03	-5.503E-03	-5.382E-03	-4.916E-03	-4.196E-03	-3.294E-03	-2.688E-03
40	1.086E-02	1.635E-02	-2.081E-02	-2.403E-02	-2.507E-02	-2.484E-02	-2.360E-02	-2.214E-02	-1.937E-02	-1.607E-02	-1.238E-02	-1.002E-02
60	4.526E-02	5.235E-02	-5.729E-02	-5.998E-02	-5.998E-02	-5.729E-02	-5.350E-02	-4.975E-02	-4.314E-02	-3.560E-02	-2.733E-02	-2.210E-02
75	9.256E-02	9.933E-02	-1.041E-01	-1.062E-01	-1.052E-01	-9.580E-02	-8.327E-02	-6.895E-02	-7.552E-02	-6.250E-02	-4.812E-02	-3.897E-02
90	1.396E-01	-1.469E-01	-1.526E-01	-1.556E-01	-1.548E-01	-1.486E-01	-1.403E-01	-1.317E-01	-1.159E-01	-9.688E-02	-7.522E-02	-6.116E-02
120	1.481E-01	-1.999E-01	-2.124E-01	-2.255E-01	-2.330E-01	-2.384E-01	-2.367E-01	-2.312E-01	-2.154E-01	-1.898E-01	-1.542E-01	-1.282E-01
150	1.342E-01	-1.467E-01	-1.620E-01	-1.826E-01	-1.994E-01	-2.264E-01	-2.465E-01	-2.614E-01	-2.796E-01	-2.873E-01	-2.741E-01	-2.502E-01
179	-4.992E-03	-5.527E-03	-6.718E-03	-7.223E-03	-8.134E-03	-9.819E-03	-1.141E-02	-1.294E-02	-1.592E-02	-2.026E-02	-2.736E-02	-3.435E-02
3.0E-00	4.0E+00	5.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	2.345E-06	1.831E-06	1.502E-06	1.104E-06	7.904E-07	5.352E-07	4.048E-07	2.722E-07	2.050E-07	1.644E-07	1.178E-07	8.263E-08
2	9.292E-06	7.250E-06	5.942E-06	4.364E-06	3.121E-06	2.115E-06	1.600E-06	1.076E-06	8.102E-07	6.498E-07	4.655E-07	3.686E-07
3	2.053E-05	1.599E-05	1.109E-05	9.613E-06	6.672E-06	4.657E-06	1.522E-06	2.368E-06	1.783E-06	1.430E-06	1.053E-06	7.168E-07
4	3.478E-05	2.707E-05	2.216E-05	1.626E-05	1.162E-05	7.875E-06	5.935E-06	4.004E-06	3.015E-06	2.418E-06	1.732E-06	1.215E-06
6	6.717E-05	5.218E-05	4.267E-05	3.128E-05	2.623E-05	1.513E-05	1.144E-05	7.691E-06	5.793E-06	4.646E-06	3.298E-06	2.335E-06
8	9.618E-05	7.453E-05	6.087E-05	4.457E-05	3.181E-05	2.154E-05	1.628E-05	1.095E-05	8.243E-06	6.611E-06	4.736E-06	3.322E-06
10	1.109E-04	8.565E-05	6.982E-05	5.103E-05	3.181E-05	2.463E-05	1.861E-05	1.251E-05	9.421E-06	7.555E-06	5.412E-06	3.796E-06
15	3.117E-05	2.210E-05	1.720E-05	1.201E-05	8.377E-06	5.555E-06	4.175E-06	2.794E-06	2.101E-06	1.684E-06	1.205E-06	8.452E-07
20	-2.992E-04	-2.371E-04	-1.959E-04	-1.469E-04	-1.040E-04	-7.068E-05	-5.351E-05	-3.606E-05	-2.712E-05	-2.173E-05	-1.558E-05	-1.093E-05
30	1.954E-03	1.538E-03	-1.251E-03	-9.244E-04	-6.620E-04	-4.490E-04	-3.397E-04	-2.284E-04	-1.720E-04	-1.380E-04	-9.885E-05	-6.935E-05
45	7.234E-03	-5.652E-03	-4.635E-03	-3.407E-03	-2.473E-03	-1.655E-03	-1.250E-03	-8.403E-04	-6.329E-04	-5.076E-04	-3.637E-04	-2.551E-04
60	1.594E-02	-1.020E-02	-1.020E-02	-7.499E-03	-5.364E-03	-3.631E-03	-2.751E-03	-1.849E-03	-1.393E-03	-1.117E-03	-8.003E-04	-5.614E-04
75	-2.814E-02	-2.199E-02	-1.804E-02	-1.326E-02	-9.448E-03	-6.431E-03	-4.864E-03	-3.270E-03	-2.463E-03	-1.976E-03	-1.415E-03	-9.829E-04
90	-4.432E-02	-3.469E-02	-2.864E-02	-2.094E-02	-1.499E-02	-1.017E-02	-7.690E-03	-5.171E-03	-3.895E-03	-3.124E-03	-2.388E-03	-1.570E-03
120	-9.437E-02	-7.482E-02	-6.474E-02	-4.556E-02	-3.269E-02	-2.220E-02	-1.680E-02	-1.130E-02	-8.513E-03	-6.828E-03	-4.892E-03	-3.432E-03
150	-2.034E-01	-1.677E-01	-1.416E-01	-1.070E-01	-7.775E-02	-5.321E-02	-4.038E-02	-2.722E-02	-2.052E-02	-1.646E-02	-1.180E-02	-8.278E-03
179	-4.816E-02	-6.177E-02	-7.517E-02	-1.012E-01	-1.379E-01	-1.912E-01	-2.866E-01	-3.022E-01	-2.999E-01	-2.026E-01	-2.712E-01	-2.214E-01

I (53)		SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MeV)	
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02	
1	-1.612E-07	-7.978E-08	2.510E-07	1.612E-07	2.332E-07	1.472E-07	5.739E-07	8.313E-07	7.904E-07	1.691E-06	2.855E-06	3.067E-06	
2	-1.862E-08	2.975E-07	1.064E-06	9.446E-07	-3.012E-07	1.493E-06	5.431E-08	3.552E-06	2.239E-06	5.462E-06	1.013E-05	1.044E-05	
3	-1.310E-06	7.794E-07	-1.570E-06	-1.825E-06	4.256E-06	-1.106E-06	6.061E-06	2.314E-06	8.657E-06	1.864E-05	1.773E-05	1.721E-05	
4	3.684E-06	6.511E-07	5.933E-06	4.409E-06	-7.322E-07	-1.395E-07	1.161E-05	-2.041E-06	2.637E-05	3.259E-05	2.090E-05	2.519E-05	
6	7.764E-06	1.357E-05	-1.423E-05	-1.093E-06	3.094E-06	3.368E-05	-1.483E-05	2.762E-05	6.985E-05	3.403E-05	1.742E-05	6.673E-05	
8	-2.283E-05	-2.090E-05	4.104E-05	-2.873E-05	6.576E-05	-6.170E-07	-2.094E-05	1.226E-04	5.999E-05	-1.973E-05	4.504E-05	1.965E-04	
10	3.528E-05	-4.100E-06	5.330E-06	7.600E-05	2.633E-05	-9.622E-05	9.302E-05	1.967E-04	-3.944E-05	-8.555E-05	1.736E-04	4.610E-04	
15	-1.038E-04	-1.551E-04	1.214E-04	-1.261E-04	-1.928E-04	2.887E-04	4.474E-04	-2.080E-04	-3.492E-04	1.844E-04	1.219E-03	1.791E-03	
20	1.137E-04	3.102E-04	1.633E-04	-3.511E-04	8.418E-04	8.936E-04	-7.800E-04	-1.008E-03	3.044E-04	1.753E-03	3.298E-03	3.739E-03	
30	1.492E-03	-1.710E-03	3.944E-04	2.030E-03	-9.497E-04	-2.751E-03	-1.998E-03	2.017E-03	6.432E-03	7.931E-03	7.545E-03	6.017E-03	
45	7.993E-04	4.529E-03	-2.684E-03	-7.055E-03	-1.793E-03	4.542E-03	1.296E-02	1.666E-02	1.393E-02	9.019E-03	4.073E-04	-5.748E-03	
60	-3.350E-03	-1.220E-02	-4.237E-03	1.437E-02	2.356E-02	2.600E-02	2.215E-02	1.112E-02	-5.062E-03	-1.663E-02	-3.129E-02	-4.008E-02	
75	-6.412E-03	1.835E-02	3.063E-02	3.194E-02	2.258E-02	1.151E-02	-8.113E-03	-2.923E-02	-5.083E-02	-6.402E-02	-7.957E-02	-8.858E-02	
90	3.557E-02	3.425E-02	2.151E-02	-5.601E-02	-2.674E-02	-4.259E-02	-6.438E-02	-8.429E-02	-1.033E-01	-1.148E-01	-1.289E-01	-1.375E-01	
120	-5.469E-02	-7.608E-02	-8.886E-02	-1.042E-01	-1.138E-01	-1.207E-01	-1.308E-01	-1.414E-01	-1.537E-01	-1.627E-01	-1.760E-01	-1.859E-01	
150	-6.068E-02	-6.537E-02	-6.897E-02	-7.448E-02	-7.877E-02	-8.234E-02	-8.818E-02	-9.504E-02	-1.038E-01	-1.108E-01	-1.218E-01	-1.307E-01	
179	-2.013E-03	-2.204E-03	-2.347E-03	-2.572E-03	-2.744E-03	-2.886E-03	-3.118E-03	-3.389E-03	-3.736E-03	-4.014E-03	-4.459E-03	-4.823E-03	
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00	
1	3.966E-06	4.494E-06	5.427E-06	6.521E-06	7.398E-06	7.721E-06	7.556E-06	7.198E-06	6.366E-06	5.306E-06	4.064E-06	3.316E-06	
2	1.017E-05	1.554E-05	2.094E-05	2.894E-05	3.215E-05	3.373E-05	3.231E-05	3.032E-05	2.641E-05	2.145E-05	1.643E-05	1.326E-05	
3	2.177E-05	3.643E-05	5.553E-05	7.248E-05	7.954E-05	7.874E-05	7.422E-05	6.892E-05	5.927E-05	4.832E-05	3.672E-05	2.954E-05	
4	4.023E-05	7.492E-05	1.120E-04	1.397E-04	1.471E-04	1.428E-04	1.321E-04	1.213E-04	8.341E-05	6.296E-05	5.049E-05	4.049E-05	
6	1.285E-04	2.260E-04	3.042E-04	3.437E-04	3.470E-04	3.141E-04	2.818E-04	2.540E-04	2.106E-04	1.673E-04	1.246E-04	9.933E-05	
8	3.282E-04	4.955E-04	5.999E-04	6.223E-04	5.721E-04	5.153E-04	4.483E-04	3.956E-04	3.195E-04	2.489E-04	1.830E-04	1.449E-04	
10	6.661E-04	8.838E-04	9.750E-04	9.377E-04	8.348E-04	7.033E-04	5.925E-04	5.103E-04	4.007E-04	3.046E-04	2.192E-04	1.721E-04	
15	2.056E-03	2.164E-03	1.980E-03	1.596E-03	1.281E-03	8.690E-04	6.295E-04	4.795E-04	3.102E-04	1.977E-04	1.135E-04	7.960E-05	
20	3.726E-03	3.277E-03	2.480E-03	1.498E-03	8.042E-04	1.683E-04	-1.639E-04	-3.330E-04	-4.646E-04	-4.860E-04	-4.262E-04	-3.655E-04	
30	4.449E-03	1.877E-03	-7.042E-04	-3.074E-03	-4.270E-03	-5.218E-03	-5.400E-03	-5.304E-03	-4.864E-03	-4.162E-03	-3.273E-03	-2.673E-03	
45	-1.017E-02	-1.545E-02	-2.060E-02	-2.408E-02	-2.577E-02	-2.507E-02	-2.385E-02	-2.239E-02	-1.959E-02	-1.626E-02	-1.253E-02	-1.014E-02	
60	-4.589E-02	-5.293E-02	-5.811E-02	-6.101E-02	-6.106E-02	-5.829E-02	-5.448E-02	-5.066E-02	-4.392E-02	-3.623E-02	-2.781E-02	-2.249E-02	
75	-9.447E-02	-1.015E-01	-1.065E-01	-1.087E-01	-1.074E-01	-1.020E-01	-9.530E-02	-8.870E-02	-7.709E-02	-6.377E-02	-4.908E-02	-3.974E-02	
90	-1.434E-01	-1.509E-01	-1.566E-01	-1.596E-01	-1.587E-01	-1.523E-01	-1.436E-01	-1.348E-01	-1.185E-01	-9.897E-02	-7.680E-02	-6.244E-02	
120	-1.938E-01	-2.059E-01	-2.187E-01	-2.321E-01	-2.396E-01	-2.449E-01	-2.429E-01	-2.371E-01	-2.206E-01	-1.942E-01	-1.576E-01	-1.310E-01	
150	-1.383E-01	-1.511E-01	-1.667E-01	-1.882E-01	-2.056E-01	-2.331E-01	-2.536E-01	-2.688E-01	-2.813E-01	-2.948E-01	-2.808E-01	-2.561E-01	
179	-5.141E-03	-5.693E-03	-6.407E-03	-7.444E-03	-8.384E-03	-1.012E-02	-1.176E-02	-1.334E-02	-1.641E-02	-2.089E-02	-2.820E-02	-3.541E-02	
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02	
1	2.394E-06	1.870E-06	1.534E-06	1.127E-06	8.064E-07	5.468E-07	4.136E-07	2.781E-07	2.094E-07	1.690E-07	1.203E-07	8.442E-08	
2	9.544E-06	7.448E-06	6.104E-06	4.484E-06	3.206E-06	2.174E-06	1.644E-06	1.105E-06	8.325E-07	6.677E-07	4.783E-07	3.355E-07	
3	2.120E-05	1.653E-05	1.354E-05	9.938E-06	7.104E-06	4.815E-06	3.642E-06	2.448E-06	1.844E-06	1.479E-06	1.059E-06	7.432E-07	
4	3.615E-05	2.815E-05	2.304E-05	1.691E-05	1.208E-05	8.189E-06	6.193E-06	4.163E-06	3.135E-06	2.515E-06	1.801E-06	1.264E-06	
6	7.075E-05	5.497E-05	4.496E-05	3.296E-05	2.354E-05	1.595E-05	1.206E-05	8.106E-06	6.105E-06	4.896E-06	3.507E-06	2.460E-06	
8	1.026E-04	7.955E-05	6.498E-05	4.758E-05	3.394E-05	2.300E-05	1.739E-05	1.169E-05	8.802E-06	7.059E-06	5.057E-06	3.548E-06	
10	1.209E-04	9.337E-05	7.614E-05	5.567E-05	3.970E-05	2.687E-05	2.031E-05	1.365E-05	1.028E-05	8.244E-06	5.905E-06	4.143E-06	
15	4.998E-05	3.670E-05	2.913E-05	2.075E-05	1.457E-05	9.778E-06	7.367E-06	4.940E-06	3.717E-06	2.980E-06	2.134E-06	1.497E-06	
20	-2.752E-04	-2.186E-04	-1.908E-04	-1.339E-04	-9.016E-05	-6.535E-05	-4.948E-05	-3.329E-05	-2.508E-05	-2.011E-05	-1.441E-05	-1.011E-05	
30	-1.944E-04	-1.523E-04	-1.251E-04	-9.205E-04	-6.589E-04	-4.469E-04	-3.381E-04	-2.274E-04	-1.713E-04	-1.374E-04	-9.840E-05	-6.903E-05	
45	-7.323E-03	-5.721E-03	-4.692E-03	-3.449E-03	-2.497E-03	-1.673E-03	-1.265E-03	-8.507E-04	-6.407E-04	-5.139E-04	-3.681E-04	-2.583E-04	
60	-1.621E-02	-1.266E-02	-1.038E-02	-7.630E-03	-5.457E-03	-3.700E-03	-2.798E-03	-1.881E-03	-1.417E-03	-1.137E-03	-8.142E-04	-5.712E-04	
75	-2.869E-02	-2.242E-02	-1.839E-02	-1.352E-02	-9.669E-03	-6.556E-03	-4.959E-03	-3.334E-03	-2.511E-03	-2.014E-03	-1.443E-03	-1.012E-03	
90	-4.524E-02	-3.940E-02	-2.905E-02	-2.137E-02	-1.520E-02	-1.037E-02	-7.847E-03	-5.276E-03	-3.974E-03	-3.187E-03	-2.283E-03	-1.602E-03	
120	-9.682E-02	-7.641E-02	-6.299E-02	-4.652E-02	-3.337E-02	-2.266E-02	-1.715E-02	-1.154E-02	-8.691E-03	-6.971E-03	-4.994E-03	-3.504E-03	
150	-2.080E-01	-1.714E-01	-1.446E-01	-1.092E-01	-7.940E-02	-5.433E-02	-4.123E-02	-2.779E-02	-2.095E-02	-1.681E-02	-1.205E-02	-8.452E-03	
179	-4.964E-02	-6.366E-02	-7.746E-02	-1.043E-01	-1.421E-01	-1.969E-01	-2.401E-01	-2.924E-01	-3.101E-01	-3.073E-01	-2.776E-01	-2.263E-01	

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	1.678E-07	4.595E-08	2.426E-07	-4.430E-08	2.170E-08	-1.261E-07	3.312E-07	1.183E-07	1.175E-06	1.701E-06	2.811E-06	3.656E-06
2	-2.427E-07	6.709E-07	8.242E-07	1.372E-06	-2.343E-07	2.031E-06	1.914E-07	3.411E-06	2.482E-06	4.836E-06	1.023E-05	1.067E-05
3	-8.207E-07	-2.584E-07	1.660E-06	1.346E-06	-1.466E-07	1.466E-06	5.161E-06	3.548E-06	7.227E-06	1.836E-05	1.959E-05	1.91E-05
4	3.460E-04	3.082E-06	4.545E-06	1.251E-06	1.474E-06	-2.434E-06	1.334E-05	-2.157E-06	2.339E-05	3.264E-05	2.275E-05	2.636E-05
6	4.361E-07	7.503E-06	1.430E-05	7.524E-06	-5.364E-06	3.413E-05	1.081E-05	1.867E-05	7.500E-05	4.264E-05	1.836E-05	5.783E-05
8	-9.403E-07	-5.432E-06	3.117E-05	3.909E-05	6.565E-06	1.763E-05	1.549E-05	1.172E-04	7.852E-05	1.299E-05	2.815E-05	1.740E-04
10	5.595E-06	3.505E-05	3.760E-05	4.952E-05	5.828E-05	-9.191E-05	6.118E-05	2.161E-04	-1.645E-05	-9.549E-05	1.355E-04	4.740E-04
15	1.651E-04	-8.319E-05	3.705E-05	-4.233E-05	2.619E-04	2.085E-04	5.105E-04	1.369E-04	-0.052E-04	8.051E-05	1.146E-03	1.774E-03
20	2.861E-04	1.410E-04	3.440E-04	-5.071E-04	2.619E-04	1.066E-03	2.159E-04	-1.072E-03	9.326E-05	1.585E-03	3.290E-03	3.842E-03
30	1.444E-04	-6.395E-03	-1.003E-04	2.365E-03	4.891E-04	-6.640E-03	-2.419E-03	1.509E-03	6.292E-03	8.110E-03	8.029E-03	6.590E-03
45	-3.629E-04	1.535E-03	1.630E-03	-7.613E-03	-3.014E-03	3.400E-03	1.257E-02	1.723E-02	1.517E-02	1.038E-02	1.610E-02	4.789E-03
60	-9.028E-04	-1.298E-02	6.220E-03	1.303E-02	2.357E-02	2.698E-02	2.415E-02	1.341E-02	-3.160E-03	1.522E-02	3.063E-02	4.990E-02
75	-9.028E-04	1.655E-02	3.059E-02	3.347E-02	2.561E-02	1.463E-02	5.483E-02	-8.519E-02	-5.033E-02	-6.476E-02	-8.067E-02	-9.019E-02
90	3.583E-07	3.705E-02	2.510E-02	-2.347E-03	-2.561E-02	-1.04E-02	-6.410E-02	-1.457E-02	-1.052E-01	-1.174E-01	-1.321E-01	-1.410E-01
120	-4.626E-07	-7.175E-02	-9.074E-02	-1.070E-01	-1.170E-01	-1.243E-01	1.348E-01	-1.457E-01	-1.584E-01	-1.677E-01	-1.814E-01	-1.918E-01
150	-6.263E-07	-6.746E-02	7.114E-02	-7.680E-02	-8.119E-02	-8.495E-02	-9.084E-02	-9.778E-02	-1.069E-01	-1.161E-01	-1.254E-01	-1.345E-01
179	-2.072E-03	-2.268E-03	-2.410E-03	-2.644E-03	-2.821E-03	-2.969E-03	-3.207E-03	-3.486E-03	-3.843E-03	-4.128E-03	-4.587E-03	-4.963E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	4.046E-06	4.555E-06	5.435E-06	6.489E-06	7.414E-06	7.610E-06	7.470E-06	7.265E-06	6.463E-06	5.338E-06	4.170E-06	3.353E-06
2	1.029E-05	1.384E-05	2.052E-05	2.873E-05	3.118E-05	3.237E-05	3.237E-05	2.996E-05	2.624E-05	2.170E-05	1.664E-05	1.345E-05
3	2.131E-05	3.501E-05	5.433E-05	7.227E-05	7.709E-05	8.005E-05	7.580E-05	7.059E-05	6.087E-05	4.979E-05	3.784E-05	3.048E-05
4	3.725E-05	7.205E-05	1.010E-04	1.402E-04	1.491E-04	1.357E-04	1.357E-04	1.250E-04	1.064E-04	8.622E-05	6.525E-05	5.036E-05
6	1.189E-04	2.192E-04	3.035E-04	3.695E-04	3.614E-04	3.249E-04	2.926E-04	2.642E-04	2.200E-04	1.751E-04	1.306E-04	1.042E-04
8	4.944E-04	6.071E-04	6.403E-04	6.403E-04	6.141E-04	5.390E-04	4.711E-04	4.169E-04	3.379E-04	2.639E-04	1.941E-04	1.538E-04
10	8.873E-04	8.737E-04	1.000E-03	9.717E-04	8.344E-04	7.455E-04	6.309E-04	5.460E-04	4.302E-04	3.240E-04	2.371E-04	1.864E-04
15	2.081E-03	2.642E-03	2.037E-03	1.713E-03	1.393E-03	9.665E-04	7.145E-04	5.547E-04	3.712E-04	2.404E-04	1.486E-04	1.079E-04
20	3.031E-03	3.492E-03	2.718E-03	1.710E-03	1.052E-03	3.189E-04	-3.647E-05	-2.252E-04	-3.800E-04	-4.216E-04	-3.816E-04	-3.289E-04
30	5.031E-03	5.588E-03	2.485E-04	-2.755E-03	-4.026E-03	-5.055E-03	-5.281E-03	-5.212E-03	-8.01E-03	-4.170E-03	-3.246E-03	-2.653E-03
45	9.408E-03	1.548E-02	-2.643E-02	-2.409E-02	-2.534E-02	-2.527E-02	-2.407E-02	-2.261E-02	-1.980E-02	-1.644E-02	-1.267E-02	-1.026E-02
60	4.603E-02	3.466E-02	-5.492E-02	-6.200E-02	-6.210E-02	-5.931E-02	-5.544E-02	-5.155E-02	-4.468E-02	-3.685E-02	-2.828E-02	-2.281E-02
75	9.532E-02	-1.037E-01	-1.049E-01	-1.111E-01	-1.100E-01	-1.042E-01	-9.732E-02	-9.055E-02	-7.866E-02	-6.504E-02	-5.004E-02	-4.051E-02
90	-1.471E-01	-1.549E-01	-1.406E-01	-1.537E-01	-1.579E-01	-1.559E-01	-1.470E-01	-1.378E-01	-1.210E-01	-1.011E-01	-7.839E-02	-6.371E-02
120	-1.997E-01	-2.121E-01	-2.251E-01	-2.387E-01	-2.463E-01	-2.515E-01	-2.492E-01	-2.430E-01	-2.259E-01	-1.947E-01	-1.611E-01	-1.338E-01
150	-1.424E-01	-1.566E-01	-1.717E-01	-1.937E-01	-2.111E-01	-2.398E-01	-2.608E-01	-2.763E-01	-2.950E-01	-3.023E-01	-2.876E-01	-2.620E-01
179	-5.791E-03	-5.861E-03	-6.597E-03	-7.666E-03	-8.631E-03	-1.043E-02	-1.211E-02	-1.374E-02	-1.690E-02	-2.152E-02	-2.905E-02	-3.647E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.419E-06	1.493E-06	1.553E-06	1.141E-06	8.163E-07	5.578E-07	4.219E-07	2.837E-07	2.137E-07	1.714E-07	1.228E-07	8.612E-08
2	9.684E-06	1.592E-06	1.906E-06	4.552E-06	3.255E-06	2.207E-06	1.669E-06	1.122E-06	8.451E-07	6.778E-07	4.856E-07	3.406E-07
3	2.187E-05	1.755E-05	1.974E-05	1.026E-05	4.970E-06	3.470E-06	1.759E-06	2.527E-06	1.903E-06	1.526E-06	1.093E-06	7.671E-07
4	3.751E-05	2.921E-05	2.491E-05	1.755E-05	1.254E-05	8.500E-06	6.428E-06	4.332E-06	3.255E-06	2.610E-06	1.870E-06	1.313E-06
6	7.426E-05	5.711E-05	4.720E-05	3.461E-05	2.472E-05	1.675E-05	1.266E-05	8.513E-06	6.411E-06	5.142E-06	3.683E-06	2.584E-06
8	1.092E-04	8.466E-05	6.917E-05	5.068E-05	3.616E-05	2.449E-05	1.952E-05	1.245E-05	9.373E-06	7.517E-06	5.385E-06	3.779E-06
10	1.313E-04	1.013E-04	8.265E-05	6.044E-05	4.311E-05	2.918E-05	2.006E-05	1.483E-05	1.116E-05	8.954E-06	6.414E-06	4.499E-06
15	6.476E-05	5.294E-05	4.166E-05	2.993E-05	2.111E-05	1.422E-05	1.072E-05	7.196E-06	5.416E-06	4.362E-06	3.110E-06	2.181E-06
20	-1.930E-03	-1.937E-03	-1.242E-03	-1.220E-03	-8.174E-04	-5.961E-05	-4.513E-05	-3.037E-05	-2.288E-05	-1.835E-05	-1.315E-05	-9.226E-06
30	-5.707E-03	-5.707E-03	-4.740E-03	-2.489E-03	-6.247E-04	-4.461E-04	-3.360E-04	-2.259E-04	-1.702E-04	-1.365E-04	-9.777E-05	-6.859E-05
45	-7.449E-02	-1.656E-02	1.056E-02	7.758E-03	-2.445E-03	1.692E-03	-1.280E-03	-8.605E-04	-6.481E-04	-5.198E-04	-3.724E-04	-2.614E-04
60	-2.924E-02	-2.855E-02	-1.874E-02	-1.377E-02	-9.645E-03	-6.680E-03	-5.053E-03	-3.193E-03	-1.441E-03	-1.156E-03	-8.279E-04	-5.808E-04
75	-4.615E-02	-2.611E-02	-2.964E-02	-2.180E-02	-1.256E-02	-1.038E-02	-8.003E-03	-5.351E-03	-2.559E-03	-2.052E-03	-1.470E-03	-1.031E-03
90	-9.485E-02	-7.799E-02	-6.424E-02	-4.748E-02	-3.404E-02	-2.313E-02	-1.750E-02	-9.351E-03	-4.053E-03	-2.351E-03	-2.329E-03	-1.639E-03
120	-2.124E-01	-1.751E-01	-1.477E-01	-1.115E-01	-8.104E-02	-5.545E-02	-4.208E-02	-2.835E-02	-1.715E-02	-1.175E-02	-5.096E-03	-3.575E-03
150	-5.114E-02	-6.255E-02	-7.079E-02	-1.076E-01	-1.463E-01	-2.066E-01	-2.849E-01	-3.800E-01	-3.180E-01	-3.149E-01	-2.840E-01	-2.313E-01

CS	(55)	SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)	
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02	
1	1.468E-07	1.468E-07	-9.760E-08	2.576E-07	2.097E-07	-8.209E-08	3.978E-07	8.359E-08	8.238E-07	1.727E-06	1.861E-06	2.795E-06	
2	-9.932E-08	6.315E-07	6.321E-07	1.131E-07	2.145E-07	1.946E-06	1.412E-07	3.737E-06	2.499E-06	5.304E-06	1.037E-05	1.145E-05	
3	3.363E-07	-1.412E-06	-1.341E-06	-7.010E-07	3.051E-06	8.016E-07	4.127E-06	4.642E-06	5.837E-06	1.779E-05	2.086E-05	1.855E-05	
4	1.173E-06	5.096E-06	2.322E-06	-1.304E-06	4.307E-06	-4.467E-06	1.468E-05	-2.051E-06	2.078E-05	3.555E-05	2.498E-05	2.393E-05	
6	-6.316E-06	-1.108E-06	1.054E-05	1.540E-05	-1.248E-05	3.234E-05	-4.842E-06	9.495E-06	7.842E-05	4.999E-05	1.318E-05	4.987E-05	
8	8.838E-06	1.281E-05	1.554E-05	-4.347E-05	5.941E-05	3.612E-05	-4.688E-05	1.078E-04	9.717E-05	-2.288E-04	1.363E-05	1.519E-04	
10	-2.678E-05	-5.817E-05	6.553E-05	1.702E-05	8.017E-05	-7.876E-05	2.655E-05	2.301E-04	1.083E-05	-1.004E-04	9.808E-05	3.916E-04	
15	-1.883E-04	7.253E-06	-6.161E-05	5.129E-05	-3.138E-04	1.166E-04	5.600E-04	-5.431E-05	-4.507E-04	-2.266E-05	1.063E-03	1.746E-03	
20	4.164E-04	-5.096E-05	5.033E-04	-6.334E-04	6.115E-04	1.087E-03	-3.221E-05	-1.108E-03	-1.196E-04	1.400E-03	3.261E-03	3.929E-03	
30	1.234E-03	-1.432E-03	-6.067E-04	2.624E-03	-4.140E-06	-2.447E-03	-2.801E-03	9.701E-04	6.094E-03	8.241E-03	8.500E-03	7.168E-03	
45	-1.551E-03	5.966E-03	-4.752E-04	-8.019E-03	-4.224E-03	2.175E-03	1.205E-02	1.771E-02	1.640E-02	1.178E-02	2.880E-03	-3.743E-03	
60	4.987E-04	-1.349E-02	-8.170E-03	1.148E-02	2.329E-02	2.780E-02	2.611E-02	1.578E-02	-1.128E-03	-1.368E-02	-2.986E-02	-3.962E-02	
75	-1.159E-02	1.447E-02	3.020E-02	3.627E-02	2.065E-02	1.786E-02	-2.666E-03	-2.568E-02	-4.967E-02	-6.438E-02	-8.168E-02	-9.165E-02	
90	3.581E-02	3.972E-02	2.874E-02	1.130E-03	-2.174E-02	-3.926E-02	-6.362E-02	-8.595E-02	-1.071E-01	-1.199E-01	-1.353E-01	-1.446E-01	
120	-5.376E-02	-7.811E-02	-9.255E-02	-1.097E-01	-1.207E-01	-1.279E-01	-1.388E-01	-1.501E-01	-1.632E-01	-1.727E-01	-1.868E-01	-1.972E-01	
150	-6.461E-02	-6.957E-02	-7.335E-02	-7.915E-02	-8.365E-02	-8.740E-02	-9.354E-02	-1.008E-01	-1.100E-01	-1.174E-01	-1.291E-01	-1.385E-01	
179	-2.132E-03	-2.333E-03	-2.484E-03	-2.721E-03	-2.903E-03	-3.053E-03	-3.297E-03	-3.583E-03	-3.950E-03	-4.244E-03	-4.716E-03	-5.104E-03	
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00	
1	4.123E-06	3.933E-06	5.450E-06	6.688E-06	7.187E-06	7.874E-06	7.574E-06	7.352E-06	6.553E-06	5.483E-06	4.242E-06	3.440E-06	
2	1.047E-05	1.359E-05	2.094E-05	2.853E-05	3.193E-05	3.445E-05	3.329E-05	3.141E-05	2.751E-05	2.276E-05	1.746E-05	1.402E-05	
3	2.047E-05	3.363E-05	5.301E-05	7.189E-05	7.746E-05	8.017E-05	7.727E-05	7.214E-05	6.241E-05	5.115E-05	3.898E-05	3.136E-05	
4	3.489E-05	6.827E-05	1.077E-04	1.403E-04	1.504E-04	1.491E-04	1.393E-04	1.285E-04	1.097E-04	8.908E-05	6.751E-05	5.421E-05	
6	1.086E-04	2.113E-04	3.010E-04	3.544E-04	3.601E-04	3.355E-04	3.036E-04	2.747E-04	2.293E-04	1.829E-04	1.366E-04	1.091E-04	
8	2.905E-04	4.818E-04	6.122E-04	6.572E-04	6.357E-04	5.613E-04	4.939E-04	4.382E-04	3.564E-04	2.791E-04	2.056E-04	1.632E-04	
10	6.214E-04	8.808E-04	1.021E-03	1.014E-03	9.387E-04	7.872E-04	6.697E-04	5.816E-04	4.604E-04	3.527E-04	2.554E-04	2.010E-04	
15	2.106E-03	2.315E-03	2.204E-03	1.831E-03	1.507E-03	1.067E-03	8.020E-04	6.328E-04	4.348E-04	2.903E-04	1.854E-04	1.367E-04	
20	4.048E-03	3.715E-03	2.954E-03	1.929E-03	1.248E-03	4.774E-04	9.421E-05	-1.109E-04	-2.900E-04	-3.528E-04	-3.318E-04	-2.897E-04	
30	5.628E-03	2.963E-03	1.940E-04	-2.410E-03	-3.156E-03	-4.874E-03	-5.147E-03	-5.106E-03	-4.728E-03	-4.070E-03	-3.212E-03	-2.628E-03	
45	-8.573E-03	-1.494E-02	-2.019E-02	-2.407E-02	-2.542E-02	-2.544E-02	-2.427E-02	-2.281E-02	-2.000E-02	-1.661E-02	-1.280E-02	-1.037E-02	
60	-4.608E-02	-5.392E-02	-5.968E-02	-6.296E-02	-6.312E-02	-6.032E-02	-5.638E-02	-5.242E-02	-4.543E-02	-3.747E-02	-2.875E-02	-2.324E-02	
75	-9.813E-02	-1.059E-01	-1.113E-01	-1.135E-01	-1.123E-01	-1.064E-01	-9.933E-02	-9.238E-02	-8.021E-02	-6.629E-02	-5.098E-02	-4.127E-02	
90	-1.509E-01	-1.569E-01	-1.644E-01	-1.678E-01	-1.667E-01	-1.596E-01	-1.503E-01	-1.408E-01	-1.236E-01	-1.032E-01	-7.997E-02	-6.497E-02	
120	-2.055E-01	-2.183E-01	-2.316E-01	-2.453E-01	-2.530E-01	-2.580E-01	-2.555E-01	-2.490E-01	-2.312E-01	-2.031E-01	-1.645E-01	-1.366E-01	
150	-1.466E-01	-1.602E-01	-1.769E-01	-1.994E-01	-2.177E-01	-2.466E-01	-2.681E-01	-2.839E-01	-3.028E-01	-3.099E-01	-2.944E-01	-2.679E-01	
179	-5.441E-03	-6.029E-03	-6.794E-03	-7.891E-03	-8.990E-03	-1.073E-02	-1.247E-02	-1.415E-02	-1.740E-02	-2.215E-02	-2.991E-02	-3.755E-02	
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02	
1	2.406E-06	1.943E-06	1.594E-06	1.163E-06	8.520E-07	5.641E-07	4.267E-07	2.869E-07	2.161E-07	1.733E-07	1.242E-07	8.710E-08	
2	1.010E-05	7.806E-06	6.464E-06	4.750E-06	3.397E-06	2.303E-06	1.717E-06	8.819E-07	7.073E-07	5.067E-07	3.555E-07	2.555E-07	
3	2.253E-05	1.757E-05	1.439E-05	1.057E-05	7.956E-06	5.122E-06	3.874E-06	2.604E-06	1.961E-06	1.573E-06	1.127E-06	7.906E-07	
4	3.885E-05	3.026E-05	2.476E-05	1.819E-05	1.300E-05	8.809E-06	6.662E-06	4.478E-06	3.373E-06	2.705E-06	1.938E-06	1.359E-06	
6	7.779E-05	6.047E-05	4.940E-05	3.627E-05	2.591E-05	1.755E-05	1.327E-05	8.923E-06	6.720E-06	5.389E-06	3.861E-06	2.708E-06	
8	1.157E-04	8.974E-05	7.333E-05	5.379E-05	3.840E-05	2.601E-05	1.960E-05	1.322E-05	9.954E-06	7.983E-06	5.719E-06	4.012E-06	
10	1.416E-04	1.095E-04	8.934E-05	6.535E-05	4.627E-05	3.156E-05	2.388E-05	1.603E-05	1.207E-05	9.684E-06	6.937E-06	4.866E-06	
15	9.049E-05	6.812E-05	5.491E-05	3.956E-05	2.800E-05	1.888E-05	1.425E-05	9.564E-06	7.199E-06	5.772E-06	4.134E-06	2.900E-06	
20	-2.18E-04	-1.73E-04	-1.092E-04	-1.092E-04	-7.056E-05	-5.346E-05	-4.047E-05	-2.723E-05	-2.052E-05	-1.646E-05	-1.179E-05	-8.273E-06	
30	-1.913E-03	-1.500E-03	-1.232E-03	-9.069E-04	-6.493E-04	-4.404E-04	-3.332E-04	-2.241E-04	-1.688E-04	-1.354E-04	-9.697E-05	-6.803E-05	
45	-7.486E-03	-5.849E-03	-4.797E-03	-3.526E-03	-2.522E-03	-1.710E-03	-1.294E-03	-8.698E-04	-6.551E-04	-5.254E-04	-3.764E-04	-2.641E-04	
60	-1.676E-02	-1.309E-02	-1.073E-02	-7.885E-03	-5.679E-03	-3.823E-03	-2.892E-03	-1.944E-03	-1.464E-03	-1.175E-03	-8.414E-04	-5.903E-04	
75	-2.979E-02	-2.327E-02	-1.400E-02	-1.403E-02	-1.003E-02	-6.804E-03	-5.146E-03	-3.460E-03	-2.606E-03	-2.090E-03	-1.497E-03	-1.050E-03	
90	-4.706E-02	-3.682E-02	-3.021E-02	-2.222E-02	-1.590E-02	-1.079E-02	-8.158E-03	-5.466E-03	-4.132E-03	-3.314E-03	-2.374E-03	-1.665E-03	
120	-1.009E-01	-7.958E-02	-6.559E-02	-4.844E-02	-3.474E-02	-2.359E-02	-1.785E-02	-1.201E-02	-9.046E-03	-7.256E-03	-5.198E-03	-3.647E-03	
150	-2.172E-01	-1.788E-01	-1.501E-01	-1.138E-01	-8.268E-02	-5.657E-02	-4.292E-02	-2.893E-02	-2.181E-02	-1.750E-02	-1.254E-02	-8.799E-03	
179	-5.265E-02	-6.751E-02	-8.214E-02	-1.105E-01	-1.505E-01	-2.084E-01	-2.537E-01	-3.082E-01	-3.260E-01	-3.225E-01	-2.904E-01	-2.363E-01	

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	1.357E-07	9.957E-08	-1.841E-07	-5.158E-08	-6.512E-08	1.404E-07	5.664E-07	3.939E-07	1.300E-06	9.829E-07	2.701E-06	3.695E-06
2	1.716E-07	4.764E-08	-2.108E-07	9.289E-08	-4.644E-08	1.013E-06	7.957E-07	3.012E-06	2.630E-06	4.828E-06	1.067E-05	1.183E-05
3	1.692E-07	-1.341E-06	-2.084E-07	5.244E-07	3.432E-06	2.046E-06	7.783E-06	6.013E-06	4.613E-06	1.694E-05	2.210E-05	1.930E-05
4	-1.481E-06	4.885E-06	-8.456E-07	-3.496E-06	7.410E-06	-4.842E-06	1.498E-05	-8.763E-07	1.777E-05	3.734E-05	2.827E-05	2.400E-05
6	-1.194E-05	-9.042E-06	-3.613E-06	2.181E-05	1.164E-05	2.799E-05	2.895E-06	-2.028E-07	8.035E-05	5.879E-05	-1.341E-05	4.243E-05
8	2.495E-05	2.947E-05	-3.391E-06	-4.047E-05	4.150E-05	5.311E-05	-3.865E-05	9.463E-05	1.154E-04	1.002E-05	5.616E-07	1.303E-04
10	-5.069E-05	-6.754E-05	8.422E-05	1.762E-04	1.124E-04	-5.707E-05	-8.582E-06	2.377E-04	4.192E-05	9.991E-05	6.129E-05	3.523E-04
15	-1.642E-04	1.029E-04	-1.509E-04	1.476E-04	-3.943E-04	1.1791E-03	5.929E-04	3.775E-05	-4.834E-04	1.242E-04	9.709E-04	1.707E-03
20	4.778E-04	-2.428E-04	6.241E-04	-7.201E-04	4.452E-04	1.131E-03	1.654E-04	3.775E-05	-4.834E-04	1.242E-04	9.709E-04	1.707E-03
30	8.774E-04	-1.101E-03	1.094E-03	2.793E-03	5.217E-04	-2.174E-03	-7.136E-04	4.075E-04	5.338E-04	1.198E-03	3.210E-03	3.999E-03
40	-2.586E-03	1.371E-02	1.005E-02	9.736E-03	5.402E-03	8.810E-04	1.139E-02	1.807E-02	1.760E-02	1.321E-02	4.953E-03	7.748E-03
50	-1.406E-02	1.214E-02	2.163E-02	3.822E-02	2.843E-02	2.843E-02	7.804E-02	1.820E-02	1.033E-02	1.200E-02	-2.846E-02	-2.846E-02
75	-1.406E-02	1.214E-02	2.163E-02	3.822E-02	2.843E-02	2.843E-02	7.804E-02	1.820E-02	1.033E-02	1.200E-02	-2.846E-02	-2.846E-02
90	3.544E-02	4.224E-02	3.740E-02	1.856E-03	-1.687E-02	3.723E-02	-6.295E-02	-8.658E-02	-1.089E-01	-1.224E-01	-1.384E-01	-1.681E-01
120	5.306E-02	7.894E-02	9.430E-02	-1.125E-01	-1.236E-01	-1.315E-01	-1.429E-01	-1.566E-01	-1.680E-01	-1.778E-01	-1.923E-01	-2.030E-01
150	-6.663E-02	-7.172E-02	-7.559E-02	-8.153E-02	-8.999E-02	-8.999E-02	-6.628E-02	-1.037E-01	-1.132E-01	-1.207E-01	-1.328E-01	-1.424E-01
179	-2.193E-03	-2.399E-03	-2.557E-03	-2.797E-03	-2.943E-03	-3.137E-03	-3.387E-03	-3.681E-03	-4.058E-03	-4.360E-03	-4.846E-03	-5.245E-03
5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00	
DEG	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01
1	4.194E-06	4.226E-06	4.895E-06	6.681E-06	7.428E-06	7.916E-06	7.630E-06	7.268E-06	6.635E-06	5.562E-06	4.309E-06	3.497E-06
2	1.072E-05	1.339E-05	1.954E-05	2.748E-05	3.198E-05	3.374E-05	7.371E-05	4.123E-05	2.801E-05	2.322E-05	1.784E-05	1.442E-05
3	2.084E-05	3.238E-05	5.161E-05	7.123E-05	7.946E-05	8.113E-05	7.771E-05	7.362E-05	6.388E-05	5.247E-05	4.004E-05	3.227E-05
4	3.283E-05	6.474E-05	1.040E-04	1.400E-04	1.515E-04	1.518E-04	1.426E-04	1.318E-04	1.129E-04	9.187E-05	6.964E-05	5.603E-05
6	9.739E-05	2.024E-04	2.974E-04	3.584E-04	3.675E-04	3.456E-04	1.138E-04	2.850E-04	2.386E-04	1.907E-04	1.427E-04	1.040E-04
8	2.688E-04	4.709E-04	6.153E-04	6.727E-04	5.470E-04	5.843E-04	5.166E-04	4.597E-04	3.756E-04	2.944E-04	2.173E-04	1.726E-04
10	5.936E-04	8.822E-04	1.040E-03	1.056E-03	9.792E-04	8.280E-04	7.080E-04	6.177E-04	4.918E-04	3.740E-04	2.742E-04	2.161E-04
15	2.108E-03	2.381E-03	2.308E-03	1.950E-03	1.624E-03	1.171E-03	9.935E-04	7.139E-04	5.010E-04	3.423E-04	2.239E-04	1.672E-04
20	4.193E-03	3.930E-03	3.194E-03	2.156E-03	1.453E-03	6.439E-04	3.342E-04	1.005E-03	1.944E-04	2.796E-04	-2.786E-04	-2.477E-04
30	6.239E-03	3.542E-03	6.835E-03	-2.040E-03	-3.644E-03	-4.674E-03	-4.996E-03	-4.986E-03	-4.642E-03	-4.010E-03	-3.172E-03	-2.597E-03
40	-7.665E-03	-1.433E-02	-1.988E-02	-2.399E-02	-2.547E-02	-2.559E-02	-2.445E-02	-2.300E-02	-2.018E-02	-1.676E-02	-1.242E-02	-1.047E-02
60	-4.605E-02	-5.431E-02	-6.040E-02	-6.389E-02	-6.111E-02	-6.129E-02	-5.730E-02	-5.37E-02	-4.617E-02	-3.807E-02	-2.921E-02	-2.361E-02
75	-9.989E-02	-1.080E-01	-1.136E-01	-1.159E-01	-1.147E-01	-1.086E-01	-1.013E-01	-9.421E-02	-8.174E-02	-6.754E-02	-5.193E-02	-4.203E-02
90	-1.547E-01	-1.623E-01	-1.690E-01	-1.719E-01	-1.707E-01	-1.632E-01	-1.536E-01	-1.439E-01	-1.262E-01	-1.052E-01	-8.154E-02	-6.624E-02
120	-2.115E-01	-2.245E-01	-2.381E-01	-2.521E-01	-2.598E-01	-2.647E-01	-2.618E-01	-2.549E-01	-2.365E-01	-2.075E-01	-1.680E-01	-1.394E-01
150	-1.507E-01	-1.647E-01	-1.814E-01	-2.050E-01	-2.249E-01	-2.535E-01	-2.754E-01	-2.915E-01	-3.106E-01	-3.175E-01	-3.012E-01	-2.739E-01
179	-5.593E-03	-6.199E-03	-6.982E-03	-8.117E-03	-9.146E-03	-1.104E-02	-1.283E-02	-1.456E-02	-1.791E-02	-2.280E-02	-3.078E-02	-3.864E-02
3.0E+02	4.0E+02	5.0E+02	7.0E+02	1.0E+03	1.5E+03	2.0E+03	3.0E+03	4.0E+03	5.0E+03	7.0E+03	1.0E+04	1.5E+04
DEG	1.0E+02	1.5E+02	2.0E+02	3.0E+02	4.0E+02	5.0E+02	7.0E+02	1.0E+03	1.5E+03	2.0E+03	3.0E+03	4.0E+03
1	2.528E-06	1.976E-06	1.621E-06	1.192E-06	8.527E-07	5.782E-07	4.373E-07	2.940E-07	2.715E-07	1.776E-07	1.273E-07	8.927E-08
2	1.024E-05	7.999E-06	6.558E-06	4.819E-06	3.471E-06	2.337E-06	1.767E-06	1.188E-06	9.012E-07	7.178E-07	5.178E-07	3.632E-07
3	2.317E-05	1.807E-05	1.481E-05	1.087E-05	7.174E-06	5.270E-06	7.985E-06	4.680E-06	2.018E-06	1.619E-06	1.160E-06	8.134E-07
4	4.017E-05	3.130E-05	2.563E-05	1.881E-05	1.345E-05	9.113E-06	6.892E-06	4.633E-06	3.490E-06	2.799E-06	2.005E-06	1.407E-06
6	8.133E-05	6.326E-05	5.173E-05	3.794E-05	2.710E-05	1.836E-05	1.349E-05	9.334E-06	7.030E-06	5.638E-06	4.039E-06	2.833E-06
8	1.225E-04	9.503E-05	7.676E-05	5.689E-05	4.062E-05	2.751E-05	1.389E-05	1.398E-05	1.053E-05	8.443E-06	6.050E-06	4.244E-06
10	1.524E-04	1.179E-04	9.621E-05	7.039E-05	5.022E-05	3.400E-05	2.570E-05	1.727E-05	1.301E-05	1.043E-05	7.474E-06	5.243E-06
15	1.122E-04	8.497E-05	6.859E-05	4.965E-05	3.521E-05	2.375E-05	1.794E-05	1.204E-05	9.067E-06	7.270E-06	5.207E-06	3.653E-06
20	-1.922E-04	-1.544E-04	-1.215E-04	-8.975E-05	-6.881E-05	-4.684E-05	-3.544E-05	-2.388E-05	-1.799E-05	-1.443E-05	-1.034E-05	-7.255E-06
30	-7.560E-03	-5.907E-03	-4.845E-03	-3.561E-03	-2.464E-04	-4.360E-04	-2.298E-04	-1.298E-04	-1.671E-04	-1.340E-04	-9.599E-05	-6.734E-05
40	-1.702E-02	-1.329E-02	-1.090E-02	-8.009E-03	-5.724E-03	-3.172E-03	-1.307E-03	-8.775E-04	-6.616E-04	-5.307E-04	-3.802E-04	-2.657E-04
60	-3.033E-02	-2.369E-02	-1.943E-02	-1.428E-02	-1.022E-02	-6.926E-03	-5.239E-03	-3.975E-03	-2.653E-03	-1.933E-03	-1.546E-04	-5.906E-04
75	-4.796E-02	-3.752E-02	-3.194E-02	-2.265E-02	-1.621E-02	-1.099E-02	-8.316E-03	-5.502E-03	-4.210E-03	-3.127E-03	-1.524E-03	-1.069E-03
90	-6.476E-02	-5.115E-02	-4.399E-02	-3.342E-02	-2.405E-02	-1.820E-02	-1.254E-02	-9.224E-03	-7.339E-03	-5.300E-03	-4.419E-03	-3.718E-03
120	-1.029E-01	-8.115E-02	-6.489E-02	-4.939E-02	-3.542E-02	-2.405E-02	-1.820E-02	-1.254E-02	-9.224E-03	-7.339E-03	-5.300E-03	-4.419E-03
150	-2.218E-01	-1.825E-01	-1.536E-01	-1.161E-01	-8.431E-02	-5.768E-02	-4.367E-02	-3.950E-02	-2.224E-02	-1.784E-02	-1.279E-02	-8.972E-03
179	-5.417E-02	-6.947E-02	-8.451E-02	-1.137E-01	-1.546E-01	-2.142E-01	-2.607E-01	-3.162E-01	-3.341E-01	-3.301E-01	-2.969E-01	-2.413E-01

LA (57)		SHERMAN FUNCTION: DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)	
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
DEG													
1	6.408E-08	-1.604E-07	6.001E-08	1.694E-07	5.214E-08	2.636E-08	3.533E-07	9.065E-07	1.944E-07	9.426E-07	2.641E-06	3.693E-06	
2	4.082E-07	-3.976E-07	-4.679E-07	2.500E-07	-1.051E-07	1.227E-06	5.890E-07	3.433E-06	2.131E-06	3.394E-06	1.068E-05	1.219E-05	
3	1.662E-06	-1.064E-06	1.814E-06	1.931E-06	1.299E-06	3.440E-06	1.104E-06	1.716E-06	2.576E-06	1.525E-05	2.328E-05	2.019E-05	
4	-3.683E-06	2.973E-06	-3.710E-06	-4.781E-06	9.100E-06	-4.823E-06	1.350E-05	1.521E-06	1.440E-05	3.753E-05	3.699E-05	2.455E-05	
6	-9.812E-06	-1.415E-05	5.675E-06	2.555E-05	-2.000E-05	2.084E-05	1.174E-05	-7.550E-06	8.048E-05	6.758E-05	1.509E-05	3.569E-05	
8	3.227E-05	3.884E-05	-2.191E-05	-3.051E-05	3.128E-05	6.767E-05	-5.618E-05	1.827E-05	1.324E-04	2.531E-05	-1.175E-05	1.082E-04	
10	-5.749E-05	-6.084E-05	8.976E-05	-4.980E-05	1.294E-04	-2.832E-05	-4.315E-05	2.384E-04	7.590E-05	-9.392E-05	2.596E-05	3.131E-04	
15	-9.769E-05	1.869E-04	-2.220E-04	2.379E-04	-3.501E-04	-8.313E-05	6.057E-04	1.371E-04	-5.071E-04	-2.208E-04	8.706E-04	1.657E-03	
20	4.564E-04	-4.105E-04	6.930E-04	-7.592E-04	2.529E-04	1.135E-03	3.728E-04	-1.088E-03	-5.767E-04	9.822E-04	3.136E-03	4.051E-03	
30	4.089E-04	-6.636E-04	-1.534E-03	2.860E-03	1.061E-03	-1.824E-03	-3.414E-03	-1.722E-04	5.524E-03	8.354E-03	9.383E-03	8.320E-03	
45	-3.722E-03	6.565E-03	2.048E-03	-8.308E-03	-6.524E-03	-4.658E-04	1.059E-02	1.833E-02	1.877E-02	1.466E-02	5.622E-02	-1.438E-03	
60	4.695E-03	-1.361E-02	-1.183E-02	7.811E-03	2.210E-02	2.886E-02	2.985E-02	2.068E-02	3.322E-03	-1.018E-02	-2.794E-02	-3.875E-02	
75	-1.637E-02	9.576E-03	2.868E-02	3.998E-02	3.471E-02	2.460E-02	3.518E-03	-2.133E-02	-4.784E-02	-6.420E-02	-8.343E-02	-9.446E-02	
90	3.471E-02	4.456E-02	3.606E-02	8.679E-03	-1.575E-02	-6.470E-02	-8.706E-02	-1.107E-02	-1.107E-02	-1.248E-01	-1.416E-01	-1.516E-01	
120	-5.216E-02	-7.965E-02	-9.591E-02	-1.152E-01	-1.269E-01	-1.352E-01	-1.470E-01	-1.591E-01	-1.729E-01	-1.830E-01	-1.979E-01	-2.040E-01	
150	-6.867E-02	-7.390E-02	-7.781E-02	-8.395E-02	-8.688E-02	-9.261E-02	-9.903E-02	-1.066E-01	-1.164E-01	-1.241E-01	-1.365E-01	-1.464E-01	
179	-2.254E-03	-2.466E-03	-2.627E-03	-2.874E-03	-3.064E-03	-3.222E-03	-3.479E-03	-3.780E-03	-4.168E-03	-4.478E-03	-4.977E-03	-5.388E-03	
		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
DEG													
1	3.349E-06	4.009E-06	5.505E-06	6.675E-06	7.255E-06	7.950E-06	7.630E-06	7.367E-06	6.689E-06	5.636E-06	4.372E-06	3.550E-06	
2	1.214E-05	1.487E-05	2.012E-05	2.710E-05	3.214E-05	3.441E-05	3.407E-05	3.161E-05	2.848E-05	2.366E-05	1.820E-05	1.473E-05	
3	2.092E-05	3.118E-05	5.001E-05	7.051E-05	7.967E-05	8.200E-05	7.985E-05	7.499E-05	6.528E-05	5.373E-05	4.107E-05	3.312E-05	
4	3.114E-05	6.128E-05	1.045E-04	1.394E-04	1.529E-04	1.543E-04	1.456E-04	1.351E-04	1.160E-04	9.459E-05	7.187E-05	5.774E-05	
6	8.713E-05	1.931E-04	2.947E-04	3.614E-04	3.744E-04	3.552E-04	3.240E-04	2.968E-04	2.473E-04	1.985E-04	1.488E-04	1.189E-04	
8	2.465E-04	4.564E-04	6.161E-04	6.867E-04	6.767E-04	6.073E-04	5.392E-04	4.811E-04	3.944E-04	3.100E-04	2.292E-04	1.821E-04	
10	5.622E-04	8.737E-04	1.050E-03	1.083E-03	1.019E-03	8.698E-04	7.448E-04	6.544E-04	5.231E-04	4.070E-04	2.934E-04	2.315E-04	
15	2.105E-03	2.441E-03	2.410E-03	2.070E-03	1.743E-03	1.278E-03	9.882E-04	7.980E-04	5.699E-04	3.965E-04	2.640E-04	1.991E-04	
20	4.326E-03	4.142E-03	3.437E-03	2.390E-03	1.065E-03	8.183E-04	3.810E-04	1.378E-04	-9.315E-05	-2.018E-04	-2.220E-04	-2.031E-04	
30	6.863E-03	4.144E-03	1.200E-03	-1.044E-03	-2.149E-03	-4.854E-03	-4.829E-03	-4.851E-03	-4.545E-03	-3.941E-03	-3.125E-03	-2.561E-03	
45	-6.681E-03	-1.368E-02	-1.951E-02	-2.388E-02	-2.570E-02	-2.570E-02	-2.460E-02	-2.316E-02	-2.034E-02	-1.691E-02	-1.304E-02	-1.050E-02	
60	-4.592E-02	-5.463E-02	-6.105E-02	-6.477E-02	-6.504E-02	-6.225E-02	-5.820E-02	-5.411E-02	-4.689E-02	-3.866E-02	-2.966E-02	-2.397E-02	
75	-1.016E-01	-1.100E-01	-1.159E-01	-1.183E-01	-1.171E-01	-1.108E-01	-1.033E-01	-9.603E-02	-8.329E-02	-6.878E-02	-5.286E-02	-4.278E-02	
90	-1.584E-01	-1.609E-01	-1.732E-01	-1.761E-01	-1.747E-01	-1.669E-01	-1.570E-01	-1.469E-01	-1.288E-01	-1.073E-01	-8.312E-02	-6.750E-02	
120	-2.175E-01	-2.308E-01	-2.447E-01	-2.589E-01	-2.686E-01	-2.713E-01	-2.681E-01	-2.610E-01	-2.418E-01	-2.120E-01	-1.714E-01	-1.422E-01	
150	-1.549E-01	-1.694E-01	-1.870E-01	-2.109E-01	-2.301E-01	-2.404E-01	-2.428E-01	-2.491E-01	-3.184E-01	-3.252E-01	-3.080E-01	-2.798E-01	
179	-5.746E-03	-6.370E-03	-7.170E-03	-8.346E-03	-9.404E-03	-1.136E-02	-1.320E-02	-1.497E-02	-1.842E-02	-2.345E-02	-3.165E-02	-3.974E-02	
		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
DEG													
1	2.568E-06	2.008E-06	1.447E-06	1.211E-06	8.044E-07	5.875E-07	4.444E-07	2.988E-07	2.251E-07	1.805E-07	1.293E-07	9.072E-08	
2	1.052E-05	8.292E-06	6.790E-06	4.996E-06	3.577E-06	2.622E-06	1.832E-06	1.232E-06	9.278E-07	7.441E-07	5.331E-07	3.740E-07	
3	2.382E-05	1.858E-05	1.523E-05	1.118E-05	7.997E-06	5.421E-06	4.100E-06	2.756E-06	2.076E-06	1.665E-06	1.193E-06	8.368E-07	
4	4.142E-05	3.232E-05	2.647E-05	1.943E-05	1.389E-05	9.413E-06	7.119E-06	4.786E-06	3.605E-06	2.891E-06	2.071E-06	1.453E-06	
6	8.488E-05	6.631E-05	5.401E-05	3.961E-05	2.830E-05	1.917E-05	1.450E-05	9.747E-06	7.341E-06	5.887E-06	4.217E-06	2.959E-06	
8	1.294E-04	1.004E-04	8.208E-05	6.012E-05	4.293E-05	2.908E-05	2.190E-05	1.478E-05	1.113E-05	8.925E-06	6.394E-06	4.483E-06	
10	1.634E-04	1.265E-04	1.032E-04	7.555E-05	5.391E-05	3.650E-05	2.759E-05	1.855E-05	1.397E-05	1.120E-05	8.024E-06	5.629E-06	
15	1.349E-04	1.026E-04	8.297E-05	5.019E-05	4.274E-05	2.885E-05	2.179E-05	1.444E-05	1.102E-05	8.836E-06	6.329E-06	4.439E-06	
20	-1.607E-04	-1.300E-04	-1.085E-04	-8.096E-05	-5.667E-05	-3.990E-05	-3.010E-05	-2.030E-05	-1.530E-05	-1.227E-05	-8.794E-06	-6.170E-06	
30	-1.868E-03	-1.465E-03	-1.204E-03	-8.864E-04	-6.367E-04	-4.306E-04	-3.258E-04	-2.191E-04	-1.650E-04	-1.373E-04	-9.481E-05	-6.652E-05	
45	-7.629E-03	-5.961E-03	-4.887E-03	-3.594E-03	-2.571E-03	-1.743E-03	-1.319E-03	-8.860E-04	-6.678E-04	-5.356E-04	-3.837E-04	-2.692E-04	
60	-1.728E-02	-1.390E-02	-1.106E-02	-8.131E-03	-5.015E-03	-3.943E-03	-2.982E-03	-2.005E-03	-1.510E-03	-1.211E-03	-8.676E-04	-6.087E-04	
75	-3.087E-02	-2.411E-02	-1.977E-02	-1.453E-02	-1.040E-02	-7.048E-03	-5.331E-03	-3.584E-03	-2.700E-03	-2.165E-03	-1.551E-03	-1.088E-03	
90	-4.887E-02	-3.822E-02	-3.137E-02	-2.307E-02	-1.651E-02	-1.120E-02	-8.468E-03	-5.694E-03	-4.289E-03	-3.440E-03	-2.464E-03	-1.729E-03	
120	-1.049E-01	-8.275E-02	-6.819E-02	-5.035E-02	-3.011E-02	-2.552E-02	-1.885E-02	-1.248E-02	-9.401E-03	-7.541E-03	-5.402E-03	-3.790E-03	
150	-2.263E-01	-1.862E-01	-1.569E-01	-1.184E-01	-8.597E-02	-5.880E-02	-4.462E-02	-3.007E-02	-2.267E-02	-1.819E-02	-1.303E-02	-9.145E-03	
179	-5.572E-02	-7.144E-02	-8.691E-02	-1.169E-01	-1.592E-01	-2.201E-01	-2.677E-01	-3.243E-01	-3.421E-01	-3.377E-01	-3.034E-01	-2.463E-01	

CE (58)	SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)		
	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02	
DEG													
1	4.108E-08	-1.412E-07	3.912E-08	-1.830E-07	-9.369E-08	5.884E-08	3.283E-07	1.387E-07	7.502E-07	1.237E-06	2.582E-06	3.677E-06	
2	6.158E-07	-3.067E-07	-2.901E-07	-3.726E-07	4.091E-07	4.477E-08	5.981E-07	2.299E-06	2.565E-06	3.335E-06	1.002E-05	1.216E-05	
3	2.664E-07	7.040E-07	-2.712E-06	2.880E-06	1.079E-07	4.734E-06	-2.115E-07	8.561E-06	1.960E-06	1.406E-05	2.435E-05	2.133E-05	
4	-3.063E-06	1.359E-07	-4.651E-06	-4.671E-06	-3.372E-06	-3.380E-06	1.169E-05	3.529E-06	1.102E-05	3.710E-05	3.412E-05	2.559E-05	
6	-2.289E-06	-1.341E-05	1.401E-05	2.507E-05	-1.094E-05	1.205E-05	2.093E-05	-1.441E-05	7.906E-05	7.606E-05	1.821E-05	2.937E-05	
8	2.738E-05	3.919E-05	-3.533E-05	-1.495E-05	1.161E-05	7.813E-05	-5.374E-05	5.934E-05	1.480E-04	4.252E-05	-1.922E-05	8.667E-05	
10	-4.389E-05	-2.815E-05	8.062E-05	-7.631E-05	1.361E-04	5.790E-06	-7.440E-05	2.318E-04	1.119E-04	-8.235E-05	-7.307E-06	2.721E-04	
15	-3.193E-05	2.456E-04	-2.677E-04	3.129E-04	-3.097E-04	-1.810E-04	5.989E-04	2.407E-04	-5.071E-04	-3.114E-04	7.630E-04	1.595E-03	
20	3.511E-04	-5.314E-04	7.016E-04	-7.460E-04	4.367E-05	1.096E-03	5.831E-04	-1.031E-03	-7.344E-04	7.546E-04	3.040E-03	4.083E-03	
30	-1.236E-04	-1.564E-04	-1.896E-03	2.819E-03	1.000E-03	-1.402E-03	-3.624E-03	-7.609E-04	5.151E-03	8.329E-03	9.787E-03	8.903E-03	
45	-4.568E-03	6.486E-03	3.333E-03	-8.168E-03	-7.549E-03	-1.849E-03	9.653E-03	1.845E-02	1.990E-02	1.612E-02	7.089E-03	-1.714E-04	
60	6.753E-03	-1.318E-02	-1.746E-02	5.721E-02	2.115E-02	2.908E-02	3.159E-02	2.320E-02	5.737E-03	-8.219E-03	-2.678E-02	-3.815E-02	
75	-1.849E-02	6.747E-03	2.741E-02	4.152E-02	3.767E-02	2.808E-02	6.879E-03	-1.884E-02	-4.664E-02	-6.389E-02	-8.416E-02	-9.575E-02	
90	3.762E-02	4.667E-02	3.070E-02	1.274E-02	-1.277E-02	-3.243E-02	-4.097E-02	-8.738E-02	-1.173E-01	-1.271E-01	-1.447E-01	-1.552E-01	
120	-5.104E-02	-8.022E-02	-9.755E-02	-1.179E-01	-1.387E-01	-1.389E-01	-1.512E-01	-1.739E-01	-1.883E-01	-2.035E-01	-2.147E-01	-2.147E-01	
150	-7.075E-02	-7.612E-02	-8.017E-02	-8.041E-02	-9.175E-02	-9.527E-02	-1.019E-01	-1.096E-01	-1.196E-01	-1.275E-01	-1.402E-01	-1.504E-01	
179	-2.316E-03	-2.533E-03	-2.699E-03	-2.951E-03	-3.147E-03	-3.308E-03	-3.571E-03	-3.890E-03	-4.277E-03	-4.596E-03	-5.109E-03	-5.531E-03	
	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00	
DEG													
1	3.368E-05	4.870E-06	4.917E-06	6.188E-06	7.277E-06	7.977E-06	7.888E-06	7.497E-06	6.762E-06	5.703E-06	4.438E-06	3.599E-06	
2	1.242E-05	1.431E-05	1.074E-05	2.753E-05	3.185E-05	3.453E-05	3.439E-05	3.277E-05	2.891E-05	2.407E-05	1.855E-05	1.501E-05	
3	2.096E-05	3.124E-05	4.465E-05	6.461E-05	7.751E-05	8.383E-05	8.090E-05	7.625E-05	6.659E-05	5.493E-05	4.205E-05	3.394E-05	
4	3.033E-05	5.787E-05	4.935E-05	1.393E-04	1.575E-04	1.666E-04	1.485E-04	1.383E-04	1.190E-04	9.724E-05	7.392E-05	5.948E-05	
6	7.714E-05	1.825E-04	2.887E-04	3.634E-04	3.094E-04	3.645E-04	3.349E-04	3.046E-04	2.563E-04	2.062E-04	1.547E-04	1.238E-04	
8	2.738E-04	4.427E-04	6.150E-04	6.991E-04	6.952E-04	6.296E-04	5.603E-04	5.025E-04	4.133E-04	3.256E-04	2.412E-04	1.918E-04	
10	5.276E-04	8.311E-04	1.058E-03	1.115E-03	1.058E-03	9.114E-04	7.873E-04	6.907E-04	5.549E-04	4.293E-04	3.130E-04	2.473E-04	
15	2.091E-03	2.493E-03	2.508E-03	2.190E-03	1.887E-03	1.387E-03	1.089E-03	8.849E-04	6.413E-04	4.529E-04	2.058E-04	2.324E-04	
20	4.445E-03	3.649E-03	3.642E-03	2.631E-03	1.889E-03	1.001E-03	5.364E-04	2.723E-04	1.386E-05	-1.193E-04	-1.620E-04	-1.557E-04	
30	7.495E-03	4.767E-03	1.744E-03	-1.221E-03	-2.009E-03	-4.213E-03	-4.643E-03	-7.700E-03	-4.436E-03	-3.862E-03	-3.071E-03	-2.520E-03	
45	-5.619E-03	-1.294E-02	-1.908E-02	-2.371E-02	-2.544E-02	-2.579E-02	-2.473E-02	-2.331E-02	-2.048E-02	-1.704E-02	-1.314E-02	-1.065E-02	
60	-4.573E-02	-5.487E-02	-6.165E-02	-6.561E-02	-6.598E-02	-6.318E-02	-5.908E-02	-5.493E-02	-4.760E-02	-3.924E-02	-3.010E-02	-2.433E-02	
75	-1.032E-01	-1.121E-01	-1.182E-01	-1.207E-01	-1.194E-01	-1.130E-01	-1.053E-01	-9.784E-02	-8.482E-02	-7.002E-02	-5.379E-02	-4.352E-02	
90	-1.522E-01	-1.709E-01	-1.773E-01	-1.807E-01	-1.797E-01	-1.706E-01	-1.603E-01	-1.500E-01	-1.314E-01	-1.094E-01	-8.468E-02	-6.876E-02	
120	-2.236E-01	-2.312E-01	-2.513E-01	-2.657E-01	-2.735E-01	-2.780E-01	-2.745E-01	-2.670E-01	-2.471E-01	-2.165E-01	-1.749E-01	-1.450E-01	
150	-1.592E-01	-1.740E-01	-1.822E-01	-2.165E-01	-2.344E-01	-2.674E-01	-2.902E-01	-3.069E-01	-3.264E-01	-3.329E-01	-3.149E-01	-2.858E-01	
179	-5.908E-03	-6.542E-03	-7.372E-03	-8.575E-03	-9.845E-03	-1.167E-02	-1.356E-02	-1.539E-02	-1.893E-02	-2.410E-02	-3.254E-02	-4.088E-02	
	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02	
DEG													
1	2.605E-06	2.037E-06	1.671E-06	1.229E-06	8.794E-07	5.963E-07	4.511E-07	3.033E-07	2.284E-07	1.832E-07	1.313E-07	9.208E-08	
2	1.083E-05	8.400E-06	6.937E-06	5.098E-06	3.064E-06	2.472E-06	1.870E-06	1.257E-06	9.469E-07	7.544E-07	5.440E-07	3.817E-07	
3	2.442E-05	1.905E-05	1.502E-05	1.147E-05	8.203E-06	5.560E-06	4.205E-06	2.827E-06	2.130E-06	1.708E-06	1.224E-06	8.583E-07	
4	4.269E-05	3.328E-05	2.726E-05	2.001E-05	1.476E-05	9.646E-06	7.333E-06	4.930E-06	3.743E-06	2.978E-06	2.133E-06	1.496E-06	
6	8.842E-05	6.878E-05	5.620E-05	4.128E-05	2.940E-05	1.998E-05	1.511E-05	1.016E-05	7.651E-06	6.136E-06	4.396E-06	3.084E-06	
8	1.363E-04	1.057E-04	8.652E-05	6.340E-05	4.577E-05	3.066E-05	2.318E-05	1.558E-05	1.174E-05	9.414E-06	6.743E-06	4.731E-06	
10	1.747E-04	1.353E-04	1.104E-04	8.083E-05	5.768E-05	3.906E-05	2.953E-05	1.985E-05	1.495E-05	1.199E-05	8.586E-06	6.023E-06	
15	1.595E-04	1.209E-04	9.798E-05	7.119E-05	5.054E-05	3.418E-05	2.582E-05	1.734E-05	1.306E-05	1.047E-05	7.499E-06	5.606E-06	
20	-1.273E-04	-1.041E-04	-8.728E-05	-6.546E-05	-4.734E-05	-3.231E-05	-2.450E-05	-1.650E-05	-1.243E-05	-9.975E-06	-7.147E-06	-5.015E-06	
30	-1.839E-03	-1.443E-03	-1.180E-03	-8.734E-04	-6.245E-04	-4.244E-04	-3.210E-04	-2.159E-04	-1.626E-04	-1.304E-04	-9.344E-05	-6.553E-05	
45	-7.693E-03	-6.011E-03	-4.930E-03	-3.624E-03	-2.593E-03	-1.758E-03	-1.130E-03	-8.940E-04	-6.734E-04	-5.401E-04	-4.869E-04	-2.714E-04	
60	-1.754E-02	-1.369E-02	-1.123E-02	-8.251E-03	-5.901E-03	-4.001E-03	-3.026E-03	-2.034E-03	-1.532E-03	-1.229E-03	-8.804E-04	-6.176E-04	
75	-3.147E-02	-2.453E-02	-2.011E-02	-1.478E-02	-1.057E-02	-7.169E-03	-5.423E-03	-3.646E-03	-2.746E-03	-2.202E-03	-1.578E-03	-1.107E-03	
90	-4.977E-02	-3.893E-02	-3.194E-02	-2.349E-02	-1.671E-02	-1.140E-02	-8.623E-03	-5.798E-03	-4.367E-03	-3.502E-03	-2.509E-03	-1.760E-03	
120	-1.078E-01	-8.433E-02	-6.848E-02	-5.130E-02	-3.679E-02	-2.498E-02	-1.890E-02	-1.272E-02	-9.578E-03	-7.683E-03	-5.504E-03	-3.861E-03	
150	-2.309E-01	-1.898E-01	-1.599E-01	-1.206E-01	-8.761E-02	-5.992E-02	-4.546E-02	-3.064E-02	-2.310E-02	-1.853E-02	-1.328E-02	-9.318E-03	
179	-5.727E-02	-7.344E-02	-8.933E-02	-1.202E-01	-1.635E-01	-2.260E-01	-2.747E-01	-3.323E-01	-3.502E-01	-3.454E-01	-3.098E-01	-2.513E-01	

PR	(59)	SHERMAN FUNCTION: DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)	
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
DEG													
1	6.436E-03	-1.008E-07	-1.931E-07	3.440E-06	5.449E-08	2.456E-07	-4.337E-08	2.042E-07	6.869E-07	1.325E-06	2.528E-06	3.648E-06	
2	2.041E-07	-4.718E-07	-2.850E-06	-4.779E-07	7.502E-07	-4.174E-07	1.152E-06	1.799E-06	2.839E-06	3.644E-06	9.877E-06	1.156E-05	
3	-9.946E-07	2.298E-06	3.235E-06	3.519E-06	-1.712E-06	5.556E-06	-1.537E-06	9.247E-06	1.542E-06	1.302E-05	2.474E-05	2.254E-05	
4	-6.455E-07	-2.733E-06	-4.005E-06	-3.389E-06	9.032E-06	-5.220E-07	9.413E-06	6.466E-06	7.678E-06	3.602E-05	3.721E-05	2.709E-05	
6	7.122E-06	-8.613E-06	1.962E-05	2.113E-05	-1.445E-05	2.046E-06	2.958E-05	-1.956E-05	7.510E-05	8.452E-05	2.274E-05	2.475E-05	
8	1.167E-05	2.904E-05	-4.125E-05	4.530E-06	-9.131E-06	8.325E-05	-4.605E-05	3.787E-05	1.612E-04	6.175E-05	-2.638E-05	6.593E-05	
10	-1.391E-05	-4.694E-06	5.721E-05	-9.322E-05	1.317E-04	4.246E-05	-1.006E-04	2.177E-04	1.490E-04	-6.565E-05	-3.815E-05	2.291E-04	
15	9.814E-05	2.671E-04	-2.782E-04	3.666E-04	-2.829E-04	-2.699E-04	5.709E-04	3.455E-04	-4.952E-04	-3.947E-04	6.488E-04	1.523E-03	
20	1.784E-04	-5.818E-04	6.453E-04	-6.790E-04	-1.732E-04	1.014E-03	7.906E-04	-9.415E-04	-9.200E-04	5.174E-04	2.919E-03	4.095E-03	
30	-6.627E-04	4.027E-04	-2.157E-03	2.664E-03	2.119E-03	-9.163E-04	-3.770E-03	-1.351E-03	4.723E-03	8.247E-03	1.016E-02	9.471E-03	
45	-5.171E-03	6.138E-03	4.510E-03	-7.826E-03	-8.515E-03	-3.249E-03	8.590E-03	1.844E-02	2.098E-02	1.760E-02	8.618E-03	1.171E-03	
60	8.687E-03	-1.242E-02	-1.491E-02	3.487E-03	1.994E-02	2.908E-02	3.321E-02	2.574E-02	8.275E-03	-6.110E-03	-2.549E-02	-3.742E-02	
75	-2.036E-02	3.831E-02	2.583E-02	4.284E-02	4.054E-02	3.160E-02	1.041E-02	-1.613E-02	-4.526E-02	-6.342E-02	-8.477E-02	-9.696E-02	
90	3.217E-02	4.854E-02	4.327E-02	1.698E-02	-8.744E-03	-2.953E-02	-5.963E-02	-8.752E-02	-1.138E-01	-1.294E-01	-1.478E-01	-1.587E-01	
120	-4.973E-02	-8.063E-02	-9.904E-02	-1.204E-01	-1.335E-01	-1.426E-01	-1.554E-01	-1.683E-01	-1.830E-01	-1.936E-01	-2.092E-01	-2.206E-01	
150	-7.287E-02	-8.754E-02	-8.891E-02	-8.891E-02	-9.385E-02	-9.796E-02	-1.047E-01	-1.126E-01	-1.229E-01	-1.310E-01	-1.440E-01	-1.545E-01	
179	-2.379E-03	-2.641E-03	-2.771E-03	-3.030E-03	-3.230E-03	-3.395E-03	-3.665E-03	-3.981E-03	-4.388E-03	-4.715E-03	-5.242E-03	-5.676E-03	
		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
DEG													
1	4.352E-06	4.960E-06	5.595E-06	6.283E-06	7.195E-06	7.997E-06	7.930E-06	7.575E-06	6.675E-06	5.746E-06	4.484E-06	3.645E-06	
2	1.287E-05	1.317E-05	1.939E-05	2.758E-05	3.201E-05	3.459E-05	7.465E-05	3.305E-05	2.917E-05	2.445E-05	1.887E-05	1.528E-05	
3	2.172E-05	2.905E-05	4.710E-05	6.859E-05	7.918E-05	8.438E-05	8.085E-05	7.739E-05	6.782E-05	5.607E-05	4.299E-05	3.472E-05	
4	2.898E-05	5.457E-05	9.604E-05	1.369E-04	1.537E-04	1.585E-04	1.511E-04	1.411E-04	1.219E-04	9.980E-05	7.599E-05	6.118E-05	
6	6.757E-05	1.718E-04	2.830E-04	3.644E-04	3.856E-04	3.731E-04	3.439E-04	3.145E-04	2.655E-04	2.136E-04	1.607E-04	1.286E-04	
8	2.001E-04	4.255E-04	6.114E-04	7.098E-04	7.125E-04	6.513E-04	5.824E-04	5.237E-04	4.321E-04	3.417E-04	2.530E-04	2.614E-04	
10	4.904E-04	8.444E-04	1.071E-03	1.145E-03	1.094E-03	9.528E-04	8.271E-04	7.280E-04	5.871E-04	4.551E-04	3.330E-04	2.633E-04	
15	2.066E-03	2.536E-03	2.602E-03	2.309E-03	1.985E-03	1.499E-03	1.185E-03	9.746E-04	7.153E-04	5.114E-04	3.493E-04	2.670E-04	
20	4.548E-03	4.549E-03	3.920E-03	2.877E-03	2.113E-03	1.191E-03	6.987E-04	4.137E-04	1.267E-04	-3.220E-05	-9.839E-05	-1.055E-04	
30	8.133E-03	5.412E-03	2.314E-03	-7.709E-04	-2.444E-03	-3.952E-03	-4.440E-03	-4.534E-03	-4.313E-03	-3.774E-03	-3.010E-03	-2.472E-03	
45	-4.479E-03	-1.213E-02	-1.858E-02	-2.350E-02	-2.537E-02	-2.584E-02	-2.483E-02	-2.343E-02	-2.061E-02	-1.715E-02	-1.324E-02	-1.073E-02	
60	-4.537E-02	-5.504E-02	-6.219E-02	-6.641E-02	-6.086E-02	-6.408E-02	-5.993E-02	-5.573E-02	-4.829E-02	-3.980E-02	-3.053E-02	-2.468E-02	
75	-1.044E-01	-1.141E-01	-1.204E-01	-1.231E-01	-1.217E-01	-1.151E-01	-1.073E-01	-9.963E-02	-8.634E-02	-7.124E-02	-5.472E-02	-4.426E-02	
90	-1.663E-01	-1.750E-01	-1.815E-01	-1.844E-01	-1.827E-01	-1.742E-01	-1.637E-01	-1.530E-01	-1.339E-01	-1.115E-01	-8.625E-02	-7.001E-02	
120	-2.298E-01	-2.436E-01	-2.580E-01	-2.726E-01	-2.804E-01	-2.848E-01	-2.809E-01	-2.730E-01	-2.525E-01	-2.209E-01	-1.783E-01	-1.478E-01	
150	-1.635E-01	-1.787E-01	-1.974E-01	-2.223E-01	-2.427E-01	-2.744E-01	-2.977E-01	-3.146E-01	-3.343E-01	-3.406E-01	-3.217E-01	-2.917E-01	
179	-6.055E-03	-6.715E-03	-7.569E-03	-8.807E-03	-9.927E-03	-1.199E-02	-1.394E-02	-1.581E-02	-1.945E-02	-2.477E-02	-3.343E-02	-4.198E-02	
		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
DEG													
1	2.639E-05	2.064E-06	1.694E-06	1.246E-06	8.914E-07	6.045E-07	4.573E-07	3.075E-07	2.316E-07	1.857E-07	1.331E-07	9.334E-08	
2	1.103E-05	3.619E-06	7.068E-06	5.195E-06	3.716E-06	2.319E-06	1.906E-06	1.281E-06	9.650E-07	7.740E-07	5.545E-07	3.890E-07	
3	2.506E-05	1.951E-05	1.599E-05	1.175E-05	8.401E-06	5.695E-06	4.307E-06	2.896E-06	2.181E-06	1.749E-06	1.253E-06	8.792E-07	
4	4.393E-05	3.425E-05	2.806E-05	2.060E-05	1.477E-05	9.903E-06	7.550E-06	5.076E-06	3.823E-06	3.066E-06	2.196E-06	1.541E-06	
6	9.194E-05	7.154E-05	5.854E-05	4.295E-05	3.069E-05	2.079E-05	1.572E-05	1.057E-05	7.961E-06	6.385E-06	4.574E-06	3.209E-06	
8	1.434E-04	1.113E-04	9.100E-05	6.670E-05	4.763E-05	3.226E-05	2.440E-05	1.640E-05	1.235E-05	9.905E-06	7.095E-06	4.577E-06	
10	1.862E-04	1.442E-04	1.170E-04	8.622E-05	6.154E-05	4.167E-05	3.150E-05	2.117E-05	1.595E-05	1.279E-05	9.161E-06	6.327E-06	
15	1.831E-04	1.400E-04	1.136E-04	8.265E-05	5.077E-05	3.972E-05	3.001E-05	2.016E-05	1.518E-05	1.217E-05	8.718E-06	6.115E-06	
20	-9.174E-05	-7.657E-05	-6.481E-05	-4.902E-05	-3.562E-05	-2.437E-05	-1.849E-05	-1.246E-05	-9.392E-06	-7.536E-06	-5.400E-06	-3.789E-06	
30	-1.806E-03	-1.418E-03	-1.155E-03	-8.585E-04	-6.148E-04	-4.172E-04	-3.156E-04	-2.122E-04	-1.599E-04	-1.282E-04	-9.186E-05	-6.445E-05	
45	-7.751E-03	-6.057E-03	-4.968E-03	-3.652E-03	-2.612E-03	-1.771E-03	-1.340E-03	-9.009E-04	-6.785E-04	-5.442E-04	-3.899E-04	-2.735E-04	
60	-1.779E-02	-1.389E-02	-1.119E-02	-8.368E-03	-5.985E-03	-4.057E-03	-3.069E-03	-2.063E-03	-1.554E-03	-1.246E-03	-9.229E-04	-6.264E-04	
75	-3.193E-02	-2.494E-02	-2.045E-02	-1.503E-02	-1.075E-02	-7.289E-03	-5.513E-03	-3.707E-03	-2.792E-03	-2.239E-03	-1.604E-03	-1.125E-03	
90	-5.066E-02	-3.962E-02	-3.251E-02	-2.391E-02	-1.711E-02	-1.160E-02	-8.776E-03	-5.901E-03	-4.445E-03	-3.565E-03	-2.554E-03	-1.792E-03	
120	-1.090E-01	-8.591E-02	-7.070E-02	-5.225E-02	-3.747E-02	-2.544E-02	-1.925E-02	-1.295E-02	-9.755E-03	-7.825E-03	-5.606E-03	-3.933E-03	
150	-2.355E-01	-1.935E-01	-1.630E-01	-1.229E-01	-8.925E-02	-6.103E-02	-4.631E-02	-3.121E-02	-2.352E-02	-1.887E-02	-1.353E-02	-9.490E-03	
179	-5.845E-02	-7.545E-02	-9.170E-02	-1.235E-01	-1.679E-01	-2.320E-01	-2.818E-01	-3.405E-01	-3.584E-01	-3.530E-01	-3.163E-01	-2.563E-01	

NO	(NO)	SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)	
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
DEG													
1	-1.202E-07	1.397E-07	-1.381E-07	-2.732E-07	-1.539E-07	3.438E-08	1.118E-07	3.789E-07	1.319E-06	1.993E-06	2.483E-06	3.603E-06	
2	-3.526E-07	1.084E-07	3.640E-07	-3.800E-07	1.647E-06	-7.458E-07	1.475E-06	1.258E-06	4.023E-06	3.406E-06	1.015E-05	1.184E-05	
3	-1.551E-06	2.418E-06	2.250E-06	3.088E-06	-2.284E-06	5.192E-06	-1.603E-06	4.677E-06	2.027E-06	1.141E-05	2.555E-05	2.344E-05	
4	2.544E-06	-4.501E-06	-2.125E-06	-9.556E-07	7.077E-06	1.741E-06	6.324E-06	4.627E-06	3.430E-05	4.030E-05	2.905E-05	2.905E-05	
6	1.356E-05	8.082E-05	2.102E-05	1.379E-05	-7.405E-06	7.624E-06	3.756E-05	-2.290E-05	6.957E-05	9.139E-05	2.863E-05	2.139E-05	
8	-8.769E-06	1.069E-05	-3.836E-05	2.523E-05	-2.625E-05	8.211E-05	-3.337E-05	1.614E-05	1.715E-04	8.205E-05	-2.938E-05	4.556E-05	
10	2.303E-05	3.207E-05	2.177E-05	-9.797E-05	1.161E-04	7.907E-05	-1.204E-04	1.965E-04	1.861E-04	-4.315E-05	-6.542E-05	1.858E-04	
15	1.808E-04	2.457E-04	-2.511E-04	3.926E-04	-2.133E-04	-3.445E-04	5.219E-04	4.487E-04	-4.670E-04	-4.684E-04	5.249E-04	1.440E-03	
20	-3.321E-05	-5.760E-04	5.263E-04	-5.602E-04	-3.065E-04	8.898E-04	9.867E-04	-8.201E-04	-1.090E-03	2.733E-04	2.777E-03	4.084E-03	
30	-1.147E-03	9.541E-04	-2.294E-03	2.396E-03	2.598E-03	-3.766E-04	-3.834E-03	-1.933E-03	4.241E-03	8.103E-03	1.050E-02	1.003E-02	
45	-5.484E-03	5.524E-03	5.740E-03	-7.281E-03	-9.340E-03	-4.644E-03	7.403E-03	1.829E-02	2.199E-02	1.907E-02	1.020F-02	2.590E-02	
60	1.042E-02	-1.131E-02	-1.615E-02	1.132E-03	1.054E-02	2.884E-02	3.470E-02	2.829E-02	1.093E-02	-3.853F-03	-2.405E-02	-3.658E-02	
75	-2.194E-02	7.092E-02	2.393F-02	4.390E-02	4.335E-02	3.515E-02	1.411E-02	-1.321E-02	-4.367E-02	-6.277E-02	-8.526E-02	-9.807E-02	
90	3.037E-02	5.013E-02	4.670E-02	2.137E-02	-4.860E-03	-2.655E-02	-5.804E-02	-8.749E-02	-1.152E-01	-1.316E-01	-1.509E-01	-1.622E-01	
120	-4.813E-02	-8.088E-02	-1.004E-01	-1.232E-01	-1.368E-01	-1.464E-01	-1.597E-01	-1.730E-01	-1.881E-01	-1.990F-01	-2.149E-01	-2.267E-01	
150	-7.501E-02	-8.066E-02	-8.493E-02	-9.144E-02	-9.649E-02	-1.007E-01	-1.076E-01	-1.157E-01	-1.261E-01	-1.345E-01	-1.478E-01	-1.586E-01	
179	-2.443E-03	-2.670E-03	-2.844E-03	-3.109E-03	-3.313E-03	-3.483E-03	-3.759E-03	-4.083E-03	-4.500E-03	-4.835E-03	-5.376E-03	-5.821E-03	
DEG		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	4.382E-06	4.147E-06	5.653E-06	6.481E-06	7.416E-06	8.011E-06	7.964E-06	7.455E-06	6.760E-06	5.806E-06	4.517E-06	3.687E-06	
2	1.328E-05	1.323E-05	1.962E-05	2.579E-05	3.054E-05	3.455E-05	3.385E-05	3.334E-05	2.966E-05	2.480E-05	1.917E-05	1.554E-05	
3	2.244E-05	2.819E-05	4.654E-05	6.744E-05	7.866E-05	8.478E-05	8.162E-05	7.842E-05	6.895E-05	5.715E-05	4.389E-05	3.547E-05	
4	2.915E-05	5.170E-05	9.250E-05	1.352E-04	1.535E-04	1.601E-04	1.535E-04	1.438E-04	1.246E-04	1.023E-04	7.797E-05	6.283E-05	
6	5.865E-05	1.606E-04	2.759E-04	3.644E-04	3.898E-04	3.811E-04	3.530E-04	3.238E-04	2.742E-04	2.211E-04	1.666E-04	1.335E-04	
8	1.751E-04	4.063E-04	6.052E-04	7.187E-04	7.287E-04	6.724E-04	6.041E-04	5.448E-04	4.510E-04	3.574E-04	2.657E-04	2.114E-04	
10	4.501E-04	8.237E-04	1.082E-03	1.173E-03	1.136E-03	9.938E-04	8.670E-04	7.654E-04	6.190E-04	4.818E-04	3.533E-04	2.796E-04	
15	2.029E-03	2.571E-03	2.691E-03	2.428E-03	2.108E-03	1.613E-03	1.280E-03	1.067E-03	7.918E-04	5.720E-04	3.944E-04	3.029E-04	
20	4.635E-03	4.742E-03	4.175E-03	3.129E-03	2.348E-03	1.390E-03	8.884E-04	5.620E-04	2.455E-04	5.970E-05	-3.120E-05	-5.232E-05	
30	8.776E-03	6.075E-03	2.911E-03	-2.934E-04	-2.053E-03	-3.668E-03	-4.218E-03	-4.351E-03	-4.177E-03	-3.675E-03	-2.941E-03	-2.419E-03	
45	-3.261E-03	-1.124E-02	-1.802E-02	-2.323E-02	-2.767E-02	-2.566E-02	-2.909E-02	-2.352E-02	-2.072E-02	-1.725E-02	-1.332E-02	-1.080E-02	
60	-4.493F-02	-5.511E-02	-6.266E-02	-6.715E-02	-6.771E-02	-6.495E-02	-6.076E-02	-5.651E-02	-4.897E-02	-4.036E-02	-3.095E-02	-2.502E-02	
75	-1.063E-01	-1.160E-01	-1.226E-01	-1.254E-01	-1.241E-01	-1.173E-01	-1.092E-01	-1.014E-01	-8.784E-02	-7.246E-02	-5.563E-02	-4.500E-02	
90	-1.697E-01	-1.790E-01	-1.857E-01	-1.885E-01	-1.867E-01	-1.779E-01	-1.670E-01	-1.561E-01	-1.365E-01	-1.136E-01	-8.781E-02	-7.126E-02	
120	-2.360E-01	-2.501E-01	-2.648F-01	-2.796E-01	-2.874E-01	-2.916E-01	-2.874E-01	-2.791E-01	-2.578E-01	-2.254E-01	-1.818E-01	-1.506E-01	
150	-1.678E-01	-1.834E-01	-2.026E-01	-2.282E-01	-2.490E-01	-2.815E-01	-3.052E-01	-3.224E-01	-3.423E-01	-3.484E-01	-3.286F-01	-2.977E-01	
179	-6.210E-03	-6.890E-03	-7.767E-03	-9.040E-03	-1.019E-02	-1.231E-02	-1.431E-02	-1.624E-02	-1.998E-02	-2.543E-02	-3.434E-02	-4.311E-02	
DEG		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.671E-06	2.090E-06	1.715E-06	1.261E-06	9.074E-07	6.121E-07	4.630E-07	3.113E-07	2.345E-07	1.881E-07	1.347E-07	9.452E-08	
2	1.122E-05	8.769E-06	7.192E-06	5.287E-06	3.742E-06	2.564E-06	1.940E-06	1.304E-06	9.822E-07	7.878E-07	5.643E-07	3.959E-07	
3	2.555E-05	1.995E-05	1.635E-05	1.201E-05	8.591E-06	5.824E-06	4.405E-06	2.962E-06	2.231E-06	1.789E-06	1.282F-06	8.991E-07	
4	4.514E-05	3.520E-05	2.884E-05	2.118E-05	1.516E-05	1.026E-05	7.762E-06	5.218E-06	3.930E-06	3.152E-06	2.258E-06	1.584E-06	
6	9.544E-05	7.428E-05	6.079E-05	4.460E-05	3.187E-05	2.160E-05	1.633E-05	1.098E-05	8.269E-06	6.632E-06	4.751F-06	3.333E-06	
8	1.504E-04	1.168E-04	9.554E-05	7.003E-05	5.001E-05	3.388E-05	2.562E-05	1.722E-05	1.297E-05	1.040E-05	7.451E-06	5.227E-06	
10	1.979E-04	1.534E-04	1.253F-04	9.172E-05	6.546E-05	4.433E-05	3.352E-05	2.253E-05	1.697E-05	1.361E-05	9.747E-06	6.837E-06	
15	2.087E-04	1.599E-04	9.457E-05	6.728E-05	4.548E-05	3.437E-05	2.309E-05	1.738E-05	1.394E-05	9.986E-06	7.005E-06		
20	-5.415E-05	-4.745E-05	-4.103E-05	-3.161E-05	-2.320E-05	-1.595E-05	-1.213E-05	-8.184E-06	-6.172E-06	-4.953E-06	-3.550E-06	-2.491E-06	
30	-1.769E-03	-1.389E-03	-1.142E-03	-8.416E-04	-6.028E-04	-4.090E-04	-3.095E-04	-2.081E-04	-1.568E-04	-1.257E-04	-9.007E-05	-6.319E-05	
45	-7.802E-03	-6.098E-03	-5.002E-03	-3.677E-03	-2.630E-03	-1.784E-03	-1.349E-03	-9.070E-04	-6.832E-04	-5.479E-04	-3.925E-04	-2.754E-04	
60	-1.803E-02	-1.408E-02	-1.154E-02	-8.487E-03	-6.046E-03	-4.113E-03	-3.111E-03	-2.091E-03	-1.575E-03	-1.263F-03	-9.510F-04	-6.349E-04	
75	-3.245F-02	-2.535E-02	-2.079E-02	-1.528E-02	-1.093E-02	-7.408E-03	-5.603E-03	-3.767E-03	-2.837E-03	-2.276E-03	-1.630F-03	-1.144E-03	
90	-5.156F-02	-4.032E-02	-3.308F-02	-2.433E-02	-1.741E-02	-1.180E-02	-8.929E-03	-6.004E-03	-4.522E-03	-3.627E-03	-2.598E-03	-1.823E-03	
120	-1.119E-01	-8.749E-02	-7.207E-02	-5.320E-02	-3.815E-02	-2.590E-02	-1.960E-02	-1.318E-02	-9.932E-03	-7.566E-03	-5.707E-03	-4.004E-03	
150	-2.401E-01	-1.972E-01	-1.660E-01	-1.252E-01	-9.088E-02	-6.214E-02	-4.715E-02	-3.177E-02	-2.395E-02	-1.922E-02	-1.377E-02	-9.663E-03	
179	-6.043E-02	-7.748E-02	-9.425E-02	-1.268E-01	-1.724E-01	-2.380E-01	-2.889E-01	-3.486E-01	-3.665E-01	-3.607E-01	-3.228F-01	-2.613E-01	

PM (61)	SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MeV)	
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-1.375E-07	1.116E-07	-1.035E-07	1.398E-07	3.044E-07	2.109E-07	2.925E-07	4.664E-07	1.286E-06	1.516E-06	1.487E-06	2.777E-06
2	-4.486E-07	7.447E-07	7.019E-07	1.399E-07	1.294E-06	-5.775E-07	1.868E-06	1.306E-06	3.931E-06	3.274E-06	8.927E-06	1.310E-05
3	-1.454E-06	1.724E-06	8.984E-07	1.982E-06	-2.287E-06	4.985E-06	-1.991E-06	9.385E-06	2.258E-06	9.756E-06	2.645E-05	2.535E-05
4	-4.322E-06	-3.661E-06	9.340E-07	2.845E-06	5.074E-06	5.249E-06	2.544E-06	1.277E-05	1.900E-06	3.199E-05	4.327E-05	3.061E-05
6	1.398E-05	9.608E-06	1.758E-05	4.455E-06	1.071E-06	-1.586E-05	4.383E-05	-2.374E-05	6.266E-05	9.732E-05	3.577E-05	2.009E-05
8	-2.619E-05	-1.952E-05	-2.580E-05	4.445E-05	-4.444E-05	7.430E-05	-1.631E-05	-5.743E-05	1.782E-04	1.037E-04	-2.849E-05	2.746E-05
10	5.434E-05	6.399E-05	-1.420E-05	-8.956E-05	9.014E-05	1.126E-04	-1.320E-04	1.685E-04	2.220E-04	-1.532E-04	-8.873E-05	1.427E-04
15	2.240E-04	1.840E-04	-1.892E-04	3.870E-04	-1.221E-04	-4.004E-04	4.533E-04	5.472E-04	-4.239E-04	-5.316E-04	4.064E-04	1.347E-03
20	-2.465E-04	-4.765E-04	3.532E-04	-3.948E-04	5.064E-04	7.271E-04	1.166E-03	-5.685E-04	-1.241E-03	2.529E-05	2.612E-03	4.052E-03
30	-1.519E-03	1.459E-03	-2.294E-03	2.022E-03	3.021E-03	2.053E-04	-3.816E-03	-2.499E-03	3.707E-03	7.897E-03	1.080E-02	1.057E-02
45	-5.473E-03	4.658E-03	6.774E-03	-6.536E-03	-1.002E-02	-6.017E-03	6.100E-03	1.900E-02	2.292E-02	2.053E-02	1.184E-02	4.085E-03
60	1.189E-02	-9.883E-03	-1.713E-02	-1.320E-03	1.088E-02	2.836E-02	3.604E-02	3.084E-02	1.370E-02	-1.448E-03	-2.562E-02	-3.560E-02
75	-2.318E-02	-2.536E-03	2.173E-02	4.467E-02	4.080E-02	3.870E-02	1.796E-02	-1.005E-02	-4.186E-02	-6.195E-02	-2.562E-02	-9.910E-02
90	-2.821E-02	5.142E-02	5.613E-02	-2.592E-02	-7.264E-02	-2.320E-02	-5.620E-02	-8.725E-02	-1.165E-01	-1.338E-01	-1.539E-01	-1.657E-01
120	-4.630E-02	-8.096E-02	-1.017E-01	-1.258E-01	-1.402E-01	-1.501E-01	-1.640E-01	-1.778E-01	-1.933E-01	-2.044E-01	-2.207E-01	-2.327E-01
150	-7.719E-02	-8.298E-02	-8.735E-02	-9.401E-02	-9.917E-02	-1.035E-01	-1.105E-01	-1.188E-01	-1.295E-01	-1.380E-01	-1.517E-01	-1.627E-01
179	-2.507E-03	-2.740E-03	-2.910E-03	-3.189E-03	-3.394E-03	-3.571E-03	-3.854E-03	-4.185E-03	-4.612E-03	-4.955E-03	-5.510E-03	-5.967E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	3.324E-06	5.142E-06	5.720E-06	6.107E-06	7.411E-06	8.020E-06	7.992E-06	7.707E-06	6.872E-06	5.730E-06	4.565E-06	3.713E-06
2	1.416E-05	1.336E-05	1.937E-05	2.763E-05	3.020E-05	3.449E-05	3.448E-05	3.359E-05	2.997E-05	2.460E-05	1.945E-05	1.577E-05
3	2.336E-05	2.781E-05	4.401E-05	6.616E-05	7.791E-05	8.501E-05	8.333E-05	7.933E-05	6.999E-05	5.815E-05	4.473E-05	3.610E-05
4	2.928E-05	4.881E-05	8.893E-05	1.329E-04	1.530E-04	1.614E-04	1.556E-04	1.462E-04	1.273E-04	1.046E-04	7.989E-05	6.441E-05
6	5.045E-05	1.496E-04	2.670E-04	3.633E-04	3.932E-04	3.885E-04	3.617E-04	3.328E-04	2.827E-04	2.284E-04	1.721E-04	1.382E-04
8	1.506E-04	3.854E-04	5.074E-04	7.256E-04	7.434E-04	6.926E-04	6.253E-04	5.643E-04	4.697E-04	3.732E-04	2.779E-04	2.215E-04
10	4.058E-04	7.990E-04	1.083E-03	1.194E-03	1.164E-03	1.034E-03	9.067E-04	8.030E-04	6.518E-04	5.093E-04	3.739E-04	2.962E-04
15	1.981E-03	2.596E-03	2.775E-03	2.545E-03	2.232E-03	1.730E-03	1.393E-03	1.162E-03	8.708E-04	6.348E-04	4.411E-04	3.402E-04
20	4.703E-03	4.925E-03	4.420E-03	3.386E-03	2.596E-03	1.596E-03	1.046E-03	7.173E-04	3.702E-04	1.565E-04	3.965E-05	3.740E-06
30	9.420E-03	6.757E-03	3.535E-03	2.121E-04	-1.636E-03	-3.362E-03	-3.977E-03	-4.152E-03	-4.028E-03	-3.565E-03	-2.864E-03	-2.359E-03
45	-1.966E-03	-1.028E-02	-1.740E-02	-2.291E-02	-2.509E-02	-2.585E-02	-2.495E-02	-2.360E-02	-2.081E-02	-1.734E-02	-1.340E-02	-1.080E-02
60	-4.438E-02	-5.510E-02	-6.100E-02	-6.785E-02	-6.851E-02	-6.579E-02	-6.157E-02	-5.726E-02	-4.962E-02	-4.089E-02	-3.136E-02	-2.535E-02
75	-1.077E-01	-1.179E-01	-1.248E-01	-1.272E-01	-1.261E-01	-1.194E-01	-1.112E-01	-1.032E-01	-8.934E-02	-7.366E-02	-5.654E-02	-4.572E-02
90	-1.735E-01	-1.830E-01	-1.899E-01	-1.927E-01	-1.908E-01	-1.816E-01	-1.703E-01	-1.591E-01	-1.391E-01	-1.156E-01	-8.936E-02	-7.251E-02
120	-2.423E-01	-2.567E-01	-2.710E-01	-2.866E-01	-2.944E-01	-2.984E-01	-2.939E-01	-2.852E-01	-2.632E-01	-2.299E-01	-1.852E-01	-1.534E-01
150	-1.722E-01	-1.882E-01	-2.078E-01	-2.341E-01	-2.554E-01	-2.886E-01	-3.128E-01	-3.303E-01	-3.503E-01	-3.562E-01	-3.355E-01	-3.037E-01
179	-6.367E-03	-7.065E-03	-7.965E-03	-9.274E-03	-1.064E-02	-1.264E-02	-1.469E-02	-1.667E-02	-2.051E-02	-2.611E-02	-3.525E-02	-4.420E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.700E-06	2.113E-06	1.734E-06	1.276E-06	9.128E-07	6.191E-07	4.683E-07	3.149E-07	2.372E-07	1.902E-07	1.363E-07	9.560E-08
2	1.140E-05	8.910E-06	7.409E-06	5.373E-06	3.844E-06	2.606E-06	1.971E-06	1.325E-06	9.983E-07	8.007E-07	5.736E-07	4.024E-07
3	2.608E-05	2.036E-05	1.669E-05	1.227E-05	8.771E-06	5.948E-06	4.498E-06	3.024E-06	2.278E-06	1.877E-06	1.309E-06	9.182E-07
4	4.631E-05	3.612E-05	2.960E-05	2.174E-05	1.554E-05	1.054E-05	7.968E-06	5.357E-06	4.035E-06	3.236E-06	2.318E-06	1.620E-06
6	9.891E-05	7.699E-05	6.302E-05	4.626E-05	3.305E-05	2.239E-05	1.693E-05	1.138E-05	8.574E-06	6.877E-06	4.926E-06	3.456E-06
8	1.574E-04	1.224E-04	1.001E-04	7.331E-05	5.236E-05	3.550E-05	2.585E-05	1.805E-05	1.359E-05	1.089E-05	7.808E-06	5.478E-06
10	2.098E-04	1.627E-04	1.299E-04	9.731E-05	6.946E-05	4.704E-05	3.556E-05	2.390E-05	1.800E-05	1.444E-05	1.034E-05	7.255E-06
15	2.353E-04	1.806E-04	1.467E-04	1.069E-04	7.012E-05	5.147E-05	3.889E-05	2.613E-05	1.968E-05	1.578E-05	1.130E-05	7.929E-06
20	-1.447E-05	-1.670E-05	-1.591E-05	-1.321E-05	-1.007E-05	-7.081E-06	-5.405E-06	-3.668E-06	-2.770E-06	-2.257E-06	-1.546E-06	-1.120E-06
30	-1.728E-03	-1.357E-03	-1.110E-03	-8.226E-04	-5.894E-04	-3.999E-04	-1.325E-04	-2.035E-04	-1.533E-04	-1.229E-04	-8.806E-05	-6.170E-05
45	-7.848E-02	-6.134E-03	-5.031E-03	-3.699E-03	-2.046E-03	-1.794E-03	-1.357E-03	-9.125E-04	-6.873E-04	-5.512E-04	-3.949E-04	-2.770E-04
60	-1.827E-02	-1.426E-02	-1.170E-02	-8.594E-03	-6.144E-03	-4.167E-03	-3.152E-03	-2.119E-03	-1.596E-03	-1.280E-03	-9.170E-04	-6.433E-04
75	-3.297E-02	-2.575E-02	-2.112E-02	-1.552E-02	-1.110E-02	-7.526E-03	-5.692E-03	-3.827E-03	-2.682E-03	-2.312E-03	-1.656E-03	-1.162E-03
90	-5.245E-02	-4.101E-02	-3.365E-02	-2.474E-02	-1.770E-02	-1.201E-02	-9.081E-03	-6.106E-03	-4.599E-03	-3.689E-03	-2.642E-03	-1.854E-03
120	-1.136E-01	-8.906E-02	-7.336E-02	-5.415E-02	-3.884E-02	-2.636E-02	-1.995E-02	-1.342E-02	-1.011E-02	-8.107E-03	-5.808E-03	-4.075E-03
150	-2.447E-01	-2.009E-01	-1.691E-01	-1.275E-01	-9.251E-02	-6.326E-02	-4.799E-02	-3.236E-02	-2.438E-02	-1.956E-02	-1.402E-02	-9.835E-03
179	-6.203E-02	-7.953E-02	-9.673E-02	-1.301E-01	-1.769E-01	-2.441E-01	-2.961E-01	-3.568E-01	-3.747E-01	-3.644E-01	-3.222E-01	-2.662E-01

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-2.052E-07	-2.283E-07	2.664E-07	-1.794E-07	-4.889E-08	2.612E-08	-1.941E-07	4.391E-07	4.204E-07	1.562E-06	1.445E-06	3.494E-06
2	-1.783F-07	5.221E-07	5.695E-07	5.913E-07	1.875E-06	2.053E-06	2.123E-06	2.550E-07	4.338E-06	2.807E-06	9.158E-06	1.341E-05
3	-2.979F-07	5.525E-07	-8.427E-07	1.490E-06	1.754E-06	3.940E-06	-1.302E-06	9.469E-06	2.061E-06	8.123E-06	2.573E-05	2.706E-05
4	6.956E-06	-1.438E-06	4.231E-06	5.342E-06	1.574E-06	8.260E-06	-1.143E-07	1.566E-05	-5.257E-07	2.790E-05	4.604E-05	3.395E-05
6	7.767E-04	1.687E-05	9.982E-06	-6.637E-06	1.745E-05	-2.198E-05	4.753E-05	-2.202E-05	5.324E-05	1.017E-04	4.467E-05	1.881E-05
8	-3.292E-05	-2.879E-05	-7.607E-06	5.855E-05	-5.517E-05	6.106E-05	1.947E-06	-6.653E-05	1.812E-04	1.253E-04	-2.600E-05	1.120E-05
10	6.499E-04	8.301E-05	-5.076E-05	-6.836E-05	5.611E-05	1.410E-04	1.346E-04	1.364E-04	2.569E-04	1.670E-05	-1.079E-04	1.002E-04
15	2.566E-04	8.994E-05	9.759E-05	3.495E-04	1.069E-04	4.332E-04	1.659E-04	6.371E-04	3.634E-04	-5.810E-04	2.800E-04	1.285E-03
20	-4.214F-03	1.876E-04	-1.929E-04	-1.929E-04	7.365E-04	5.315E-04	1.321E-03	-6.882E-04	1.370E-03	-2.237E-04	2.425E-03	3.966E-03
30	-1.730F-03	1.876E-04	-1.929E-04	-1.929E-04	7.365E-04	5.315E-04	1.321E-03	-6.882E-04	1.370E-03	-2.237E-04	2.425E-03	3.966E-03
45	-5.123F-03	3.565E-03	7.633E-03	-5.596E-03	-1.055E-02	8.152E-04	3.711E-03	-1.040E-03	3.125E-03	7.628E-03	1.105E-02	1.109E-02
60	1.302E-02	-8.140E-03	-1.784E-02	-3.840E-03	1.500E-02	2.762E-02	3.720E-02	1.755E-02	2.377E-02	2.197E-02	1.354E-02	5.655E-02
75	-2.404F-02	-5.868E-03	1.924E-02	4.515E-02	4.850E-02	2.223E-02	2.190E-02	6.377E-03	3.984E-02	1.016E-03	-2.073E-02	-3.449E-02
90	-2.571F-02	5.238E-02	1.334E-02	3.058E-02	3.640E-03	-1.956E-02	-5.409E-02	-8.681E-02	1.177E-01	-1.358E-02	-8.585E-02	-1.000E-01
120	-4.423E-02	8.085E-02	-1.028E-01	-1.284E-01	-1.445E-01	-1.339E-01	-1.688E-01	-1.896E-01	-1.985E-01	-2.100E-01	-2.266E-01	-2.369E-01
150	-7.941E-02	-8.534E-02	-8.981E-02	-6.662E-02	-1.019E-01	-1.063E-01	-1.133E-01	-1.219E-01	-1.381E-01	-1.416E-01	-1.555E-01	-1.669E-01
179	-2.572E-03	-2.910E-03	-2.992F-03	-3.270E-03	-3.484E-03	-3.661E-03	-3.950E-03	-4.289E-03	-4.726E-03	-5.077E-03	-5.645E-03	-6.114E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	4.198E-06	5.229E-06	5.796E-06	6.702E-06	7.408E-06	8.025E-06	8.014E-06	7.741E-06	6.942E-06	5.879E-06	4.608E-06	3.751E-06
2	1.457E-05	1.356E-05	1.857E-05	2.585E-05	2.941E-05	3.446E-05	3.453E-05	3.331E-05	3.025E-05	2.485E-05	1.970E-05	1.599E-05
3	2.446E-05	4.620E-05	8.573E-05	6.478E-05	7.090E-05	8.509E-05	8.273E-05	7.903E-05	7.094E-05	5.908E-05	4.552E-05	3.684E-05
4	2.996E-05	4.620E-05	8.573E-05	6.478E-05	7.090E-05	8.509E-05	8.273E-05	7.903E-05	7.094E-05	5.908E-05	4.552E-05	3.684E-05
6	4.297E-05	1.375E-04	5.865E-04	3.611E-04	3.956E-04	3.952E-04	1.699E-04	1.444E-04	1.297E-04	1.068E-04	8.172E-05	6.593E-05
8	1.273E-04	3.626E-04	5.865E-04	7.305E-04	7.564E-04	7.128E-04	6.459E-04	5.847E-04	2.910E-04	2.357E-04	1.780E-04	1.428E-04
10	3.626E-04	7.703E-04	1.088E-03	1.220E-03	1.201E-03	1.074E-03	9.472E-04	8.415E-04	6.862E-04	5.368E-04	4.894E-04	3.788E-04
15	1.921F-03	2.088E-03	2.452F-03	2.661E-03	2.355E-03	1.848E-03	1.501E-03	1.260E-03	9.521E-04	6.995E-04	5.365E-04	3.788E-04
20	4.005E-03	5.097E-03	4.664E-03	3.646E-03	2.839E-03	1.809E-03	1.230E-03	8.795E-04	5.009E-04	2.581E-04	1.142E-04	6.293E-05
30	1.056E-02	7.456E-03	4.184E-03	7.56E-04	1.135E-03	-3.034E-03	-2.715E-03	-2.934E-03	-2.864E-03	-3.445E-03	-2.778E-03	-2.293E-03
45	5.769E-04	-9.236E-03	-1.670E-02	-2.254E-02	-2.880E-02	-2.580E-02	-2.450E-02	-2.696E-02	-2.087E-02	-1.741E-02	-1.346E-02	-1.091E-02
60	-4.371E-02	-5.499E-02	-6.340E-02	-8.69E-02	-6.97E-02	-6.660E-02	-6.733E-02	-5.799E-02	-5.026E-02	-4.142E-02	-3.176E-02	-2.567E-02
75	1.931F-01	-1.197E-01	-1.300E-01	-1.300E-01	-1.215E-01	-1.131E-01	-1.131E-01	-1.049E-01	-9.082E-02	-7.445E-02	-5.744E-02	-4.644E-02
90	-1.773F-01	-1.871E-01	-1.969F-01	-1.969F-01	-1.946E-01	-1.853E-01	-1.737E-01	-1.622E-01	-1.416E-01	-1.177E-01	-9.091E-02	-7.374E-02
120	-2.486F-01	-2.634E-01	-2.783E-01	-2.937E-01	-3.015E-01	-3.052E-01	-3.004E-01	-2.913E-01	-2.686E-01	-2.343E-01	-1.887E-01	-1.582E-01
150	-1.766F-01	-1.930E-01	-2.131E-01	-2.400E-01	-2.618E-01	-2.957E-01	-3.204E-01	-3.382E-01	-3.584E-01	-3.640E-01	-3.424E-01	-3.097E-01
179	-6.525E-03	-7.241E-03	-8.160E-03	-9.510E-03	-1.072E-02	-1.296E-02	-1.507E-02	-1.710E-02	-2.104E-02	-2.679E-02	-3.616E-02	-5.541E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.719F-06	2.127E-06	1.745E-06	1.284E-06	9.191E-06	6.233E-06	4.715E-06	3.170E-07	2.388E-07	1.915E-07	1.372E-07	9.635E-08
2	1.156F-05	9.041E-06	7.41E-06	5.453E-06	3.401E-06	2.645E-06	2.001E-06	1.345E-06	1.013E-06	8.127E-07	5.822E-07	4.084E-07
3	2.658E-05	3.701E-05	1.702E-05	1.251E-05	8.745E-06	6.065E-06	4.581E-06	3.084E-06	2.323E-06	1.863E-06	1.335F-06	9.363E-07
4	7.64E-05	3.701E-05	3.033F-05	2.227E-05	1.597E-05	1.080E-05	1.165E-06	5.490E-06	4.135E-06	3.316E-06	2.710E-06	1.666E-06
6	1.022E-04	7.968E-05	6.523F-05	4.787E-05	3.621E-05	2.318E-05	1.753E-05	1.178E-05	8.476E-06	7.119E-06	5.100E-06	3.577E-06
8	1.649F-04	1.281E-04	1.040F-04	7.694E-05	5.848E-05	3.718E-05	2.812E-05	1.890E-05	1.423E-05	1.142E-05	8.160E-06	5.724E-06
10	2.222F-04	1.723E-04	1.408F-04	1.031E-04	7.459E-05	4.984E-05	3.763E-05	2.933E-05	1.908E-05	1.530E-05	1.098E-05	7.688E-06
15	2.628E-04	2.019E-04	1.642F-04	1.198E-04	8.377E-05	5.767E-05	4.359E-05	2.928E-05	2.205E-05	1.768E-05	1.261E-05	8.885E-06
20	2.735F-04	1.572E-05	1.057E-05	6.178E-06	3.775E-06	2.313E-06	1.682E-06	1.098E-06	8.180E-07	6.527E-07	4.655E-07	3.258E-07
30	1.681E-03	-1.322E-03	-1.087E-03	-8.015E-04	-5.742E-04	-3.897E-04	-2.948E-04	-1.993E-04	-1.494E-04	-1.198E-04	-8.582E-05	-6.021E-05
45	-7.480F-03	-6.165E-03	-5.057E-03	-3.718E-03	-2.640E-03	-1.803E-03	-1.364E-03	-1.172E-04	-6.908E-04	-5.541E-04	-3.969E-04	-2.785E-04
60	-1.450F-02	-1.445E-02	-1.184E-02	-8.703E-03	-6.274E-03	-4.220E-03	-3.192E-03	-2.165E-03	-1.616E-03	-1.294E-03	-9.288E-04	-6.514E-04
75	-3.343E-02	-2.615E-02	-2.149E-02	-1.576E-02	-1.177E-02	-7.642E-03	-5.780E-03	-3.886E-03	-2.977E-03	-2.348E-03	-1.684E-03	-1.180E-03
90	-5.333E-02	-4.110E-02	-3.421E-02	-2.516E-02	-1.900E-02	-1.221E-02	-9.233E-03	-6.208E-03	-4.676E-03	-3.750E-03	-2.687E-03	-1.885E-03
120	-1.150E-01	-9.063E-02	-7.465E-02	-5.510E-02	-3.950E-02	-2.602E-02	-2.303E-02	-1.365E-02	-8.248E-03	-5.909E-03	-4.166E-03	-2.858E-03
150	-2.493E-01	-2.045E-01	-1.721E-01	-1.297E-01	-9.414E-02	-6.436E-02	-4.883E-02	-3.291E-02	-2.400E-02	-1.990E-02	-1.426E-02	-1.001E-02
179	-6.365F-02	-8.160E-02	-9.924E-02	-1.334E-01	-1.814E-01	-2.502E-01	-3.033E-01	-3.650E-01	-3.899E-01	-3.761E-01	-3.357E-01	-2.712E-01

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-2.4457E-07	-2.893E-07	-1.745E-07	2.965E-07	-3.010E-08	2.471E-07	-1.785E-07	8.259E-07	3.264E-07	1.093E-06	2.422E-06	2.276E-06
2	6.046E-07	7.498E-07	1.133E-06	1.216E-06	1.540E-06	1.911E-06	2.860E-06	3.161E-06	4.989E-06	3.364E-06	8.219E-06	1.301E-05
3	1.705E-06	-1.001E-06	-1.765E-06	-1.143E-06	-9.977E-07	1.856E-06	7.161E-07	8.000E-06	3.665E-06	2.659E-06	2.847E-05	2.847E-05
4	7.584E-07	2.280E-06	6.747E-06	8.304E-06	1.021E-06	1.108E-05	7.254E-06	1.806E-05	-2.141E-06	2.453E-05	4.731E-05	3.627E-05
6	-2.186E-06	1.895E-05	-4.41E-07	-1.992E-05	-2.520E-05	-2.520E-05	4.790E-05	-4.448E-05	4.313E-05	1.042E-04	1.948E-05	1.972E-05
8	-2.653E-06	3.987E-05	1.542E-05	6.324E-05	-5.890E-05	4.259E-05	2.600E-05	4.548E-05	1.801E-04	1.467E-04	1.948E-05	1.930E-05
10	6.111E-05	-8.394E-05	-7.842E-05	3.635E-05	1.697E-05	1.697E-05	1.277E-04	9.612E-05	2.850E-04	5.268E-05	2.25E-04	5.933E-05
15	1.544E-04	-2.105E-04	1.184E-04	2.809E-04	9.691E-05	-6.403E-04	2.633E-04	7.152E-04	2.884E-04	1.78E-04	5.268E-05	5.933E-05
20	-5.237E-04	-9.105E-04	3.487E-05	-8.928E-04	3.095E-04	3.095E-04	1.446E-03	2.834E-04	-1.474E-03	-6.178E-04	5.268E-05	5.933E-05
30	-1.748E-03	2.167E-03	1.865E-03	1.004E-03	3.678E-03	1.438E-03	1.446E-03	2.834E-04	-1.474E-03	-6.178E-04	5.268E-05	5.933E-05
45	-4.438E-03	2.281E-03	8.986E-03	-4.474E-03	1.048E-02	-8.605E-03	3.130E-03	1.695E-03	2.500E-03	7.295E-03	1.126E-02	1.159E-02
60	-1.377E-02	-6.111E-03	1.825E-02	-6.399E-03	1.209E-02	2.663E-02	3.818E-02	3.586E-02	1.956E-02	2.338E-02	1.528E-02	7.295E-03
75	-2.449E-02	-2.848E-03	1.440E-02	-4.531E-02	5.045E-02	4.571E-02	2.609E-02	3.766E-02	1.956E-02	3.808E-03	1.884E-02	3.223E-02
90	-2.188E-02	5.330E-02	5.637E-02	-3.345E-02	8.478E-03	-1.562E-02	-5.164E-02	8.614E-02	-1.181E-01	-5.973E-02	-8.53E-02	3.223E-02
120	-4.188E-02	8.653E-02	-1.034E-01	-1.309E-01	-1.446E-01	-1.577E-01	-1.727E-01	-1.875E-01	-2.038E-01	-1.378E-01	-1.598E-01	1.706E-01
150	-8.168E-02	-8.774E-02	-9.231E-02	-9.927E-02	-1.044E-01	-1.091E-01	-1.165E-01	-1.251E-01	-1.363E-01	-1.452E-01	-1.595E-01	-1.710E-01
179	-2.638E-03	-2.662E-03	-3.066E-03	-3.351E-03	-3.570E-03	-3.751E-03	-4.046E-03	-4.393E-03	-4.840E-03	-5.200E-03	-5.782E-03	-6.262E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	4.385E-06	5.312E-06	5.022E-06	5.726E-06	6.884E-06	7.851E-06	4.030E-06	7.768E-06	6.827E-06	6.032E-06	4.543E-06	3.784E-06
2	1.474E-05	1.713E-05	1.713E-05	2.542E-05	2.939E-05	3.434E-05	7.457E-05	3.343E-05	3.049E-05	2.567E-05	1.961E-05	1.619E-05
3	2.532E-05	2.716E-05	4.104E-05	6.330E-05	7.611E-05	8.500E-05	8.438E-05	8.063E-05	7.177E-05	5.993E-05	4.626E-05	3.747E-05
4	3.101E-05	4.322E-05	8.145E-05	1.276E-04	1.509E-04	1.629E-04	1.590E-04	1.504E-04	1.319E-04	1.090E-04	8.347E-05	6.739E-05
6	3.755E-05	1.268E-04	2.692E-04	3.574E-04	3.970E-04	4.012E-04	7.775E-04	3.695E-04	2.989E-04	2.427E-04	1.836E-04	1.474E-04
8	3.368E-04	7.334E-04	5.726E-04	7.334E-04	7.679E-04	7.312E-04	6.659E-04	6.646E-04	5.066E-04	4.044E-04	3.022E-04	2.413E-04
10	3.163E-04	7.377E-04	1.074E-03	1.239E-03	1.274E-03	1.112E-03	9.853E-04	8.780E-04	7.188E-04	5.641E-04	4.161E-04	3.047E-04
15	1.858E-03	2.612E-03	2.922E-03	2.774E-03	2.774E-03	1.968E-03	1.611E-03	1.359E-03	1.036E-03	7.663E-04	5.394E-04	4.187E-04
20	1.079E-02	5.257E-03	4.854E-03	3.913E-03	3.094E-03	2.031E-03	1.423E-03	1.049E-03	6.377E-04	3.647E-04	1.925E-04	1.249E-04
30	8.885E-04	8.119E-03	4.954E-03	3.08E-03	7.240E-04	-2.649E-03	-2.495E-02	-2.366E-02	-2.092E-02	-1.747E-02	-1.351E-02	-1.096E-02
45	4.292E-02	-5.478E-02	-6.165E-02	-2.210E-02	-2.443E-02	-2.571E-02	-6.310E-02	-5.870E-02	-5.087E-02	-4.193E-02	-3.215E-02	-2.598E-02
60	-1.03E-01	-2.155E-01	-1.222E-01	-1.322E-01	-1.308E-01	-1.236E-01	-1.150E-01	-1.067E-01	-9.228E-02	-7.603E-02	-5.833E-02	-4.715E-02
90	-1.611E-01	-1.933E-01	-1.093E-01	-2.010E-01	-1.989E-01	-1.889E-01	-1.770E-01	-1.652E-01	-1.442E-01	-1.197E-01	-9.245E-02	-7.498E-02
120	-2.559E-01	-2.701E-01	-2.855E-01	-3.008E-01	-3.094E-01	-3.121E-01	-3.049E-01	-2.974E-01	-2.739E-01	-2.388E-01	-1.921E-01	-1.590E-01
150	-1.413E-01	-1.778E-01	-2.460E-01	-2.460E-01	-2.589E-01	-3.029E-01	-3.291E-01	-3.461E-01	-3.668E-01	-3.718E-01	-3.493E-01	-3.157E-01
179	-6.683E-03	-7.418E-03	-8.368E-03	-9.747E-03	-1.099E-02	-1.329E-02	-1.545E-02	-1.753E-02	-2.157E-02	-2.747E-02	-3.709E-02	-4.657E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.745E-06	2.148E-06	1.765E-06	1.297E-06	9.242E-07	6.295E-07	4.762E-07	3.202E-07	2.412E-07	1.934E-07	1.386E-07	9.722E-08
2	1.172E-05	7.516E-06	5.527E-06	3.754E-06	2.492E-06	2.681E-06	2.028E-06	1.364E-06	1.027E-06	8.238E-07	5.902E-07	4.140E-07
3	2.704E-05	1.732E-05	1.273E-05	8.279E-06	5.010E-06	6.175E-06	4.670E-06	3.140E-06	2.365E-06	1.897E-06	1.359E-06	9.533E-07
4	4.851E-05	3.103E-05	2.279E-05	1.494E-05	9.331E-06	1.105E-05	8.356E-06	5.618E-06	4.231E-06	3.394E-06	2.431E-06	1.706E-06
6	1.056E-04	6.732E-05	4.941E-05	3.311E-05	2.093E-05	2.393E-05	1.810E-05	1.217E-05	9.163E-06	7.349E-06	5.264E-06	3.693E-06
8	1.722E-04	1.094E-04	1.087E-04	8.021E-05	5.179E-05	3.842E-05	2.935E-05	1.973E-05	1.486E-05	1.192E-05	8.58E-06	5.989E-06
10	2.344E-04	1.818E-04	1.087E-04	1.087E-04	7.74E-05	5.258E-05	3.975E-05	2.722E-05	2.012E-05	1.614E-05	1.156E-05	8.110E-06
15	2.913E-04	2.200E-04	1.823E-04	1.330E-04	9.477E-05	6.499E-05	4.844E-05	3.255E-05	2.451E-05	1.965E-05	1.408E-05	9.876E-06
20	1.636E-03	-1.282E-03	3.843E-05	2.659E-05	1.874E-04	1.218E-04	9.142E-06	6.112E-06	4.594E-06	3.681E-06	2.635E-06	1.848E-06
30	-7.929E-03	-6.191E-03	-5.079E-03	-3.734E-03	-2.671E-03	-1.811E-03	-2.863E-04	-1.926E-04	-1.451E-04	-1.163E-04	-8.335E-05	-5.847E-05
45	-1.473E-02	-1.197E-02	-8.808E-03	-6.808E-03	-4.300E-03	-2.71E-03	-1.370E-03	-4.211E-04	-6.938E-04	-5.565E-04	-3.986E-04	-2.797E-04
60	-2.655E-02	-2.11E-02	-1.600E-02	-1.144E-02	-7.57E-03	-4.845E-03	-2.757E-03	-1.945E-03	-1.368E-03	-9.312E-03	-3.999E-04	-6.593E-04
75	-3.404E-02	-2.392E-02	-2.557E-02	-2.557E-02	-1.899E-02	-1.241E-02	-9.383E-03	-6.309E-03	-4.752E-03	-3.811E-03	-2.730E-03	-1.915E-03
90	-5.421E-02	-3.471E-02	-2.594E-02	-2.594E-02	-1.691E-02	-1.048E-02	-7.28E-02	-2.054E-02	-1.388E-02	-8.399E-03	-6.010E-03	-4.216E-03
120	-1.170E-01	-9.220E-02	-6.504E-02	-4.044E-02	-2.577E-02	-1.320E-01	-9.467E-02	-3.347E-02	-2.523E-02	-2.024E-02	-1.451E-02	-1.018E-02
150	-2.539E-01	-2.042E-01	-1.752E-01	-1.320E-01	-9.577E-02	-6.547E-02	-4.967E-02	-3.347E-02	-2.523E-02	-2.024E-02	-1.451E-02	-1.018E-02
179	-6.527E-02	-8.368E-02	-1.018E-01	-1.368E-01	-1.846E-01	-2.563E-01	-3.106E-01	-3.733E-01	-3.911E-01	-3.839E-01	-3.422E-01	-2.762E-01

GD (64) SHERMAN FUNCTION: ULGHEE OF POLARIZATION OF A SCATTERED ELECTRON BEAM ENERGY (MEV)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-2.019E-07	1.058E-07	-1.299E-07	-6.097E-09	-4.084E-08	-1.471E-07	-1.336E-07	8.477E-07	6.297E-07	1.692E-06	2.433E-06	3.361E-06
2	7.486E-07	-1.250E-07	1.429E-07	9.645E-07	1.048E-07	4.220E-07	2.792E-06	3.014E-07	5.083E-06	3.546E-06	7.213E-06	1.357E-05
3	2.019E-06	-1.983E-06	-2.042E-06	-1.891E-06	6.051E-07	6.889E-07	6.611E-07	6.710E-06	4.122E-06	4.503E-06	2.622E-05	2.980E-05
4	-2.756E-06	4.833E-06	6.915E-06	8.752E-06	-4.731E-06	1.258E-05	-5.791E-06	1.975E-05	-3.000E-06	2.066E-05	4.931E-05	3.949E-05
6	-1.113E-05	1.551E-05	-1.018E-05	-2.065E-05	2.901E-05	-2.478E-05	4.578E-05	-1.108E-05	3.291E-05	1.050E-04	6.403E-05	2.214E-05
8	-7.886E-06	-3.927E-05	3.430E-05	6.348E-05	-5.494E-05	2.057E-05	4.841E-05	-5.999E-05	1.747E-04	1.671E-04	-9.744E-06	-1.462E-05
10	3.202E-05	6.585E-05	-9.204E-05	2.736E-06	-2.441E-05	1.706E-04	-1.109E-04	5.452E-05	3.104E-04	9.143E-05	-1.313E-04	1.992E-05
15	5.291E-05	-1.335E-04	1.273E-04	1.871E-04	2.108E-04	-4.201E-04	1.491E-04	7.89E-04	-1.992E-04	-6.398E-04	2.487E-05	1.011E-03
20	-5.306E-04	1.305E-04	-3.220E-04	2.737E-04	-9.050E-04	6.858E-05	1.535E-03	-5.713E-05	-1.549E-03	-7.112E-04	1.989E-03	3.810E-03
30	-1.563E-03	2.333E-03	-1.449E-03	3.953E-04	3.193E-03	2.057E-03	-1.238E-03	-4.006E-03	1.837E-03	6.898E-03	1.141E-02	1.206E-02
45	-3.443E-03	8.523E-04	8.718E-03	-3.187E-03	-1.105E-02	-9.776E-03	1.608E-03	1.619E-02	2.515E-02	2.474E-02	1.706E-02	9.016E-03
60	1.008E-02	-3.829E-03	-1.832E-02	-8.966E-03	1.040E-02	2.538E-02	3.899E-02	3.829E-02	2.264E-02	6.658E-03	-1.678E-02	-3.183E-02
75	-2.449E-02	-1.264E-02	1.342E-02	4.514E-02	5.497E-02	4.912E-02	3.034E-02	7.535E-04	-3.509E-02	-5.832E-02	-8.587E-02	-1.015E-01
90	1.973E-02	5.326E-02	5.918E-02	4.021E-02	1.315E-02	-1.140E-02	-4.900E-02	-8.524E-02	-1.196E-01	-1.396E-01	-1.627E-01	-1.760E-01
120	-3.926E-02	-8.000E-02	-1.047E-01	-1.333E-01	-1.501E-01	-1.615E-01	-1.772E-01	-1.924E-01	-2.092E-01	-2.212E-01	-2.387E-01	-2.514E-01
150	-8.394E-02	-9.018E-02	-9.486E-02	-1.020E-01	-1.074E-01	-1.120E-01	-1.195E-01	-1.283E-01	-1.397E-01	-1.488E-01	-1.634E-01	-1.753E-01
179	-2.705E-03	-2.954E-03	-3.144E-03	-3.434E-03	-3.057E-03	-3.842E-03	-4.144E-03	-4.498E-03	-4.955E-03	-5.323E-03	-5.919E-03	-6.411E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	4.357E-06	5.387E-06	5.554E-06	6.758E-06	7.087E-06	7.827E-06	9.042E-06	7.790E-06	7.055E-06	5.905E-06	4.622E-06	3.768E-06
2	1.529E-05	1.414E-05	1.697E-05	2.388E-05	2.844E-05	3.425E-05	3.338E-05	3.297E-05	3.068E-05	2.589E-05	2.014E-05	1.630E-05
3	2.668E-05	2.462E-05	3.981E-05	6.182E-05	7.499E-05	8.474E-05	8.633E-05	8.127E-05	7.250E-05	6.070E-05	4.894E-05	3.804E-05
4	3.261E-05	4.170E-05	7.757E-05	1.247E-04	1.493E-04	1.634E-04	1.603E-04	1.521E-04	1.339E-04	1.110E-04	8.511E-05	6.877E-05
6	3.178E-05	1.157E-04	2.384E-04	3.535E-04	3.970E-04	4.065E-04	3.842E-04	3.572E-04	3.065E-04	2.495E-04	1.891E-04	1.519E-04
8	7.997E-05	3.128E-04	5.586E-04	7.337E-04	7.175E-04	7.484E-04	6.852E-04	6.240E-04	5.235E-04	4.199E-04	3.143E-04	2.511E-04
10	2.695E-04	7.016E-04	1.062E-03	1.255E-03	1.263E-03	1.151E-03	1.024E-03	9.152E-04	7.519E-04	5.917E-04	4.375E-04	3.475E-04
15	1.679E-03	2.608E-03	2.985E-03	2.883E-03	2.692E-03	2.089E-03	1.723E-03	1.462E-03	1.121E-03	8.351E-04	5.909E-04	4.598E-04
20	4.783E-03	5.403E-03	5.140E-03	4.181E-03	3.355E-03	2.260E-03	1.622E-03	1.225E-03	7.807E-04	4.763E-04	2.747E-04	1.900E-04
30	1.133E-02	8.894E-03	5.556E-03	1.898E-03	-2.234E-04	-2.305E-03	-7.132E-03	-3.445E-03	-3.492E-03	-3.168E-03	-2.583E-03	-2.140E-03
45	2.437E-03	-6.899E-03	-1.507E-02	-2.161E-02	-2.472E-02	-2.558E-02	-2.749E-02	-2.365E-02	-2.094E-02	-1.750E-02	-1.355E-02	-1.099E-02
60	-4.199E-02	-5.447E-02	-6.382E-02	-6.960E-02	-7.065E-02	-6.810E-02	-6.381E-02	-5.938E-02	-5.147E-02	-4.242E-02	-3.253E-02	-2.628E-02
75	-1.115E-01	-1.232E-01	-1.311E-01	-1.345E-01	-1.331E-01	-1.257E-01	-1.169E-01	-1.084E-01	-9.373E-02	-7.720E-02	-5.920E-02	-4.786E-02
90	-1.847E-01	-1.952E-01	-2.025E-01	-2.052E-01	-2.029E-01	-1.926E-01	-1.803E-01	-1.682E-01	-1.467E-01	-1.218E-01	-9.348E-02	-7.620E-02
120	-2.615E-01	-2.768E-01	-2.925E-01	-3.080E-01	-3.154E-01	-3.190E-01	-3.134E-01	-3.036E-01	-2.793E-01	-2.433E-01	-1.956E-01	-1.617E-01
150	-1.854E-01	-2.027E-01	-2.238E-01	-2.520E-01	-2.749E-01	-3.102E-01	-3.358E-01	-3.541E-01	-3.747E-01	-3.797E-01	-3.562E-01	-3.216E-01
179	-6.842E-03	-7.596E-03	-8.571E-03	-9.985E-03	-1.174E-02	-1.362E-02	-1.583E-02	-1.797E-02	-2.211E-02	-2.816E-02	-3.802E-02	-4.774E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.707E-06	2.167E-06	1.779E-06	1.309E-06	9.465E-07	6.352E-07	4.805E-07	3.231E-07	2.433E-07	1.952E-07	1.398E-07	9.809E-08
2	1.161E-05	9.271E-06	7.609E-06	5.594E-06	4.003E-06	2.714E-06	2.053E-06	1.381E-06	1.040E-06	8.340E-07	5.975E-07	4.192E-07
3	2.748E-05	2.147E-05	1.761E-05	1.294E-05	9.259E-06	6.278E-06	4.748E-06	3.193E-06	2.405E-06	1.929E-06	1.382E-06	9.692E-07
4	4.954E-05	3.867E-05	3.170E-05	2.329E-05	1.665E-05	1.129E-05	8.538E-06	5.740E-06	4.324E-06	3.468E-06	2.484E-06	1.743E-06
6	1.089E-04	8.481E-05	6.945E-05	5.097E-05	3.643E-05	2.469E-05	1.867E-05	1.255E-05	9.454E-06	7.583E-06	5.432E-06	3.811E-06
8	1.792E-04	1.393E-04	1.140E-04	8.358E-05	5.970E-05	4.045E-05	3.059E-05	2.056E-05	1.549E-05	1.242E-05	8.897E-06	6.242E-06
10	2.468E-04	1.915E-04	1.565E-04	1.147E-04	8.187E-05	5.546E-05	4.193E-05	2.818E-05	2.123E-05	1.702E-05	1.219E-05	8.554E-06
15	3.206E-04	2.469E-04	2.010E-04	1.467E-04	1.045E-04	7.073E-05	5.345E-05	3.592E-05	2.705E-05	2.169E-05	1.554E-05	1.090E-05
20	1.175E-04	8.564E-05	6.770E-05	4.802E-05	3.365E-05	2.255E-05	1.698E-05	1.138E-05	8.561E-06	6.863E-06	4.914E-06	3.447E-06
30	-1.575E-03	-1.239E-03	-1.020E-03	-7.525E-04	-5.393E-04	-3.661E-04	-2.777E-04	-1.863E-04	-1.403E-04	-1.126E-04	-8.063E-05	-5.657E-05
45	-7.945E-03	-6.211E-03	-5.095E-03	-3.746E-03	-2.688E-03	-1.817E-03	-1.375E-03	-9.243E-04	-6.962E-04	-5.583E-04	-4.000E-04	-2.806E-04
60	-1.894E-02	-1.479E-02	-1.213E-02	-8.911E-03	-6.373E-03	-4.321E-03	-2.268E-03	-2.197E-03	-1.655E-03	-1.327E-03	-9.508E-04	-6.670E-04
75	-3.450E-02	-2.694E-02	-2.209E-02	-1.623E-02	-1.161E-02	-7.871E-03	-5.954E-03	-4.003E-03	-3.015E-03	-2.418E-03	-1.732E-03	-1.215E-03
90	-5.509E-02	-4.307E-02	-3.533E-02	-2.598E-02	-1.859E-02	-1.260E-02	-9.533E-03	-6.410E-03	-4.828E-03	-3.872E-03	-2.774E-03	-1.946E-03
120	-1.190E-01	-9.376E-02	-7.722E-02	-5.698E-02	-4.085E-02	-2.774E-02	-2.099E-02	-1.412E-02	-1.063E-02	-8.529E-03	-6.110E-03	-4.287E-03
150	-2.584E-01	-2.119E-01	-1.782E-01	-1.342E-01	-9.739E-02	-6.657E-02	-5.051E-02	-3.403E-02	-2.565E-02	-2.058E-02	-1.475E-02	-1.035E-02
179	-6.691E-02	-8.577E-02	-1.043E-01	-1.402E-01	-1.905E-01	-2.625E-01	-3.179E-01	-3.816E-01	-3.993E-01	-3.916E-01	-3.487E-01	-2.812E-01

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-1.260E-08	1.085E-07	1.159E-07	2.302E-08	-1.070E-07	-1.078E-07	-6.997E-08	4.306E-07	1.165E-06	1.721E-06	2.461E-06	3.294E-06
2	5.139E-07	-3.547E-07	-1.102E-07	1.596E-06	1.094E-07	6.479E-07	1.690E-06	9.381E-07	5.999E-06	3.473E-06	7.737E-06	1.348E-05
3	8.297E-07	-1.775E-06	-1.464E-06	2.184E-06	2.011E-06	-1.150E-06	7.519E-06	5.416E-06	2.107E-05	2.954E-05	2.554E-05	3.101E-05
4	-4.256E-06	6.044E-06	5.190E-06	8.233E-06	-6.546E-06	1.168E-05	-7.189E-06	2.107E-05	-3.733E-06	1.676E-05	5.113E-05	4.289E-05
6	-1.504E-05	6.716E-05	-1.761E-05	5.387E-05	-3.404E-05	-2.090E-05	4.097E-05	-3.011E-06	2.148E-05	1.038E-04	7.456E-05	2.606E-05
8	-8.614E-06	3.192E-05	-8.423E-05	4.202E-05	-4.394E-05	-2.991E-05	7.029E-05	-1.193E-05	1.644E-04	1.859E-04	3.122E-04	-2.362E-05
10	-6.428E-05	-2.258E-04	2.320E-04	7.434E-04	-6.389E-04	1.690E-04	-8.563E-04	1.084E-05	3.304E-04	1.536E-04	-1.349E-04	-1.708E-05
20	-4.375E-04	3.623E-04	-5.281E-04	5.076E-04	-1.075E-03	3.179E-04	2.738E-04	2.288E-04	-9.720E-05	6.445E-04	-1.008E-04	8.826E-03
30	-1.186E-03	2.264E-03	-9.200E-03	-2.508E-03	3.841E-03	1.655E-02	1.584E-03	1.861E-04	-1.594E-03	9.425E-04	1.744E-03	3.630E-03
45	-2.187E-03	-6.663E-03	8.474E-03	-1.757E-02	1.100E-02	2.184E-02	-2.869E-03	-4.414E-03	1.411E-03	6.439E-03	1.151E-02	1.250E-02
60	1.393E-02	-1.339E-02	-1.809E-02	-1.151E-02	8.177E-03	3.386E-02	3.949E-02	4.064E-02	2.579E-02	2.606E-02	1.847E-02	1.087E-02
75	-2.401E-02	1.599E-02	1.014E-02	4.462E-02	-5.749E-02	5.242E-02	-3.649E-02	4.808E-02	-3.203E-02	5.653E-03	-1.456E-02	-3.027E-02
90	1.628E-02	5.313E-02	6.175E-02	4.511E-02	1.923E-02	6.881E-03	-4.609E-02	-8.409E-02	1.236E-02	-5.468E-02	-8.564E-02	-1.021E-01
120	-3.635E-02	7.924E-02	-1.054E-01	-1.357E-01	1.573E-01	1.4654E-01	-1.819E-01	-1.974E-01	-2.147E-01	-2.270E-01	-2.448E-01	-2.578E-01
150	-8.626E-02	9.426E-02	-9.744E-02	-1.047E-01	1.107E-01	1.149E-01	-1.226E-01	-1.316E-01	-1.432E-01	-1.525E-01	-1.674E-01	-1.795E-01
179	-2.772E-01	-3.027E-03	-3.221E-03	-3.517E-03	-3.746E-03	-3.935E-03	-4.243E-03	-4.605E-03	-5.072E-03	-5.447E-03	-6.057E-03	-6.561E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	4.317E-06	5.454E-06	5.111E-06	6.515E-06	6.979E-06	7.801E-06	9.050E-06	7.808E-06	7.043E-06	5.942E-06	4.669E-06	3.771E-06
2	1.407E-05	1.451E-05	1.689E-05	2.342E-05	2.705E-05	3.382E-05	3.441E-05	3.348E-05	2.954E-05	2.609E-05	2.035E-05	1.653E-05
3	2.860E-05	2.720E-05	3.061E-05	6.016E-05	7.800E-05	8.434E-05	9.472E-05	8.165E-05	7.312E-05	6.138E-05	4.755E-05	3.857E-05
4	3.467E-05	3.987E-05	7.781E-05	1.213E-04	1.973E-04	1.634E-04	1.612E-04	1.536E-04	1.357E-04	1.128E-04	8.676E-05	7.007E-05
6	2.796E-05	1.028E-04	2.274E-04	3.680E-04	3.961E-04	4.109E-04	1.909E-04	6.448E-04	3.138E-04	2.558E-04	1.942E-04	1.561E-04
8	5.265E-05	2.864E-04	7.324E-04	7.324E-04	7.954E-04	7.644E-04	7.036E-04	4.920E-04	5.412E-04	4.351E-04	3.263E-04	2.609E-04
10	2.619E-04	6.620E-04	1.048E-03	2.990E-03	2.741E-03	1.186E-03	1.066E-03	9.520E-04	7.841E-04	6.195E-04	4.589E-04	3.664E-04
15	1.673E-04	2.569E-03	3.040E-03	2.990E-03	3.242E-03	2.212E-03	1.837E-03	1.566E-03	1.209E-03	9.057E-04	6.435E-04	5.024E-04
20	4.765E-03	5.533E-03	5.369E-03	4.452E-03	3.571E-03	2.496E-03	1.829E-03	1.408E-03	9.597E-04	5.930E-04	3.607E-04	2.582E-04
30	1.944E-02	9.629E-03	6.281E-03	2.517E-03	3.073E-04	-1.904E-03	-2.487E-03	-3.172E-03	-3.284E-03	-3.012E-03	-2.471E-03	-2.053E-03
45	4.699E-02	-5.602E-03	-1.411E-02	-2.104E-02	-2.934E-02	-2.541E-02	-2.481E-02	-2.361E-02	-2.293E-02	-1.752E-02	-1.357E-02	-1.101E-02
60	-4.093E-02	-5.405E-02	-6.791E-02	-1.007E-02	-7.124E-02	-6.860E-02	-6.450E-02	-6.003E-02	-5.204E-02	-4.249E-02	-2.289E-02	-2.658E-02
75	-1.126E-01	-1.249E-01	-1.131E-01	-1.366E-01	-1.452E-01	-1.277E-01	-1.187E-01	-1.101E-01	-9.516E-02	-7.835E-02	-6.007E-02	-4.855E-02
90	-2.681E-01	-1.992E-01	-2.067E-01	-2.094E-01	-2.069E-01	-1.963E-01	-1.830E-01	-1.712E-01	-1.492E-01	-1.238E-01	-8.550E-02	-7.742E-02
120	-2.681E-01	-2.835E-01	-2.990E-01	-3.152E-01	-3.200E-01	-3.260E-01	-3.200E-01	-3.097E-01	-2.847E-01	-2.477E-01	-1.990E-01	-1.645E-01
150	-1.899E-01	-2.078E-01	-2.274E-01	-2.581E-01	-2.814E-01	-3.175E-01	-3.439E-01	-3.621E-01	-3.828E-01	-3.875E-01	-3.631E-01	-3.276E-01
179	-7.903E-03	-7.773E-03	-8.774E-03	-1.022E-02	-1.154E-02	-1.395E-02	-1.622E-02	-1.841E-02	-2.266E-02	-2.845E-02	-3.846E-02	-4.801E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.758E-06	2.160E-06	1.752E-06	1.305E-06	5.227E-07	6.259E-07	4.794E-07	3.223E-07	2.427E-07	1.947E-07	1.395E-07	9.784E-08
2	1.728E-05	9.328E-06	7.629E-06	5.562E-06	4.029E-06	2.732E-06	2.067E-06	1.390E-06	1.047E-06	8.395E-07	6.014E-07	4.213E-07
3	2.788E-05	2.179E-05	1.781E-05	1.314E-05	9.499E-06	6.373E-06	4.821E-06	3.241E-06	2.441E-06	1.958E-06	1.403E-06	9.840E-07
4	5.051E-05	3.943E-05	3.234E-05	2.375E-05	1.999E-05	1.152E-05	9.711E-05	5.856E-06	4.911E-06	3.538E-06	2.534E-06	1.774E-06
6	1.120E-04	8.726E-05	7.146E-05	5.246E-05	3.740E-05	2.541E-05	1.922E-05	1.292E-05	9.731E-06	7.805E-06	5.591E-06	3.924E-06
8	1.863E-04	1.449E-04	1.185E-04	8.693E-05	6.210E-05	4.208E-05	1.182E-05	2.199E-05	1.611E-05	1.292E-05	9.255E-06	6.493E-06
10	2.592E-04	2.012E-04	1.645E-04	1.205E-04	8.997E-05	5.830E-05	4.409E-05	2.943E-05	2.231E-05	1.790E-05	1.282E-05	8.993E-06
15	3.509E-04	2.704E-04	2.203E-04	1.609E-04	1.144E-04	7.157E-05	5.863E-05	3.940E-05	2.967E-05	2.379E-05	1.704E-05	1.196E-05
20	1.659E-04	1.232E-04	9.839E-05	7.051E-05	4.970E-05	3.342E-05	2.520E-05	1.794E-05	1.272E-05	1.020E-05	7.305E-06	5.124E-06
30	-1.514E-03	-1.192E-03	-8.810E-04	-5.191E-04	-5.191E-04	-3.525E-04	-2.666E-04	-1.760E-04	-1.352E-04	-1.094E-04	-7.768E-05	-5.446E-05
45	-7.916E-02	-6.226E-03	-5.107E-03	-3.755E-03	-2.687E-03	-1.822E-03	-1.378E-03	-9.265E-04	-6.979E-04	-5.597E-04	-4.010E-04	-2.813E-04
60	-1.916E-02	-1.498E-02	-1.220E-02	-9.010E-03	-6.444E-03	-4.369E-03	-3.309E-03	-2.222E-03	-1.673E-03	-1.342E-03	-8.614E-04	-6.744E-04
75	-3.505E-02	-2.733E-02	-2.241E-02	-1.647E-02	-1.174E-02	-7.984E-03	-4.039E-03	-4.060E-03	-3.058E-03	-2.445E-03	-1.757E-03	-1.243E-03
90	-5.596E-02	-4.374E-02	-3.589E-02	-2.634E-02	-1.888E-02	-1.240E-02	-9.682E-03	-5.510E-03	-4.903E-03	-3.933E-03	-2.817E-03	-1.976E-03
120	-1.210E-01	-9.532E-02	-7.450E-02	-5.792E-02	-4.152E-02	-2.819E-02	-2.133E-02	-1.455E-02	-1.081E-02	-6.669E-03	-4.211E-03	-2.476E-03
150	-2.630E-01	-2.153E-01	-1.612E-01	-1.365E-01	-9.701E-02	-6.767E-02	-5.134E-02	-3.459E-02	-2.607E-02	-2.092E-02	-1.499E-02	-1.032E-02
179	-8.561E-02	-8.788E-02	-1.069E-01	-1.437E-01	-1.957E-01	-2.668E-01	-3.252E-01	-3.899E-01	-4.076E-01	-3.493E-01	-3.551E-01	-2.861E-01

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	2.284E-09	-1.271E-07	1.404E-07	3.496E-07	-1.271E-07	8.627E-08	2.287E-07	5.333E-07	1.296E-07	9.866E-07	2.505E-06	3.232E-06
2	-2.192E-07	-4.143E-07	-7.325E-07	6.945E-07	7.941E-07	1.167E-06	1.192E-06	3.613E-07	5.496E-06	3.684E-06	5.692E-06	1.275E-05
3	-6.956E-07	-8.902E-07	-1.387E-06	3.779E-06	3.779E-06	-2.751E-06	4.179E-06	3.680E-06	2.422E-06	2.422E-06	2.457E-05	3.207E-05
4	-3.347E-06	4.968E-06	1.993E-06	5.662E-06	-7.110E-06	1.053E-05	-6.817E-06	2.098E-05	-2.202E-06	1.290E-05	5.179E-05	4.746E-05
6	-1.100E-05	-4.617E-06	-2.026E-05	-2.023E-05	3.494E-05	-1.428E-05	3.364E-05	7.124E-06	1.001E-05	1.010E-04	8.537E-05	3.146E-05
8	3.336E-05	-6.228E-06	5.500E-05	3.635E-05	-2.673E-05	-2.601E-05	8.886E-05	-7.845E-05	1.505E-04	2.026E-04	2.038E-05	-2.817E-05
10	-4.738E-05	-9.948E-06	-6.756E-05	8.358E-05	-9.040E-05	1.557E-04	-5.219E-05	3.226E-05	3.440E-04	1.768E-04	-1.326E-04	-5.111E-05
15	-1.696E-04	-2.820E-04	3.134E-04	-4.770E-05	4.120E-04	-2.982E-04	-9.656E-05	8.522E-04	1.592E-05	-6.370E-04	-2.231E-04	7.476E-04
20	-2.558E-04	5.598E-04	-6.897E-04	7.204E-04	-1.010E-03	-4.277E-04	1.588E-03	4.408E-04	-1.606E-03	-1.162E-03	1.482E-03	3.525E-03
30	-6.519E-04	2.048E-03	-3.064E-04	-9.078E-04	3.768E-03	3.214E-03	-2.617E-03	-4.761E-03	4.189E-04	5.917E-03	1.155E-02	1.290E-02
45	-7.318E-04	-2.214E-03	8.740E-03	-2.105E-04	-1.073E-02	-1.176E-02	-1.738E-03	1.421E-02	2.605E-02	2.731E-02	2.071E-02	1.266E-02
60	1.331E-02	-1.741E-02	-1.741E-02	-1.399E-02	5.464E-03	2.209E-02	3.979E-02	4.289E-02	1.279E-02	-1.217E-02	-2.856E-02	-2.856E-02
75	-2.305E-02	-1.925E-02	6.647E-03	4.374E-02	5.614E-02	5.560E-02	3.911E-02	3.085E-03	-2.936E-02	-5.482E-02	-8.524E-02	-1.025E-01
90	1.256E-02	5.260E-02	6.403E-02	5.004E-02	2.353E-02	-2.068E-03	-4.269E-02	-8.268E-02	-1.208E-01	-1.430E-01	-1.683E-01	-1.827E-01
120	-3.315E-02	-7.824E-02	-1.054E-01	-1.380E-01	-1.366E-01	-1.092E-01	-1.862E-01	-2.025E-01	-2.202E-01	-2.328E-01	-2.510E-01	-2.643E-01
150	-8.862E-02	-9.517E-02	-1.001E-01	-1.975E-01	-1.172E-01	-1.179E-01	-1.257E-01	-1.349E-01	-1.467E-01	-1.562E-01	-1.714E-01	-1.838E-01
179	-2.843E-03	-3.100E-03	-3.297E-03	-3.601E-03	-3.035E-03	-4.028E-03	-4.342E-03	-4.712E-03	-5.189E-03	-5.573E-03	-6.196E-03	-6.711E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	4.265E-06	4.332E-06	5.167E-06	6.848E-06	6.814E-06	7.772E-06	8.054E-06	1.820E-06	7.107E-06	6.050E-06	4.713E-06	3.791E-06
2	1.434E-05	1.631E-05	1.790E-05	2.421E-05	2.800E-05	3.403E-05	3.434E-05	3.351E-05	3.048E-05	2.625E-05	2.049E-05	1.668E-05
3	2.979E-05	2.763E-05	3.755E-05	5.895E-05	7.446E-05	8.377E-05	8.467E-05	8.189E-05	7.363E-05	6.197E-05	4.810E-05	3.909E-05
4	3.717E-05	3.932E-05	7.015E-05	1.206E-04	1.449E-04	1.630E-04	1.617E-04	1.548E-04	1.373E-04	1.144E-04	8.820E-05	7.138E-05
6	2.553E-05	9.187E-05	2.150E-04	3.415E-04	3.949E-04	4.145E-04	3.967E-04	3.709E-04	3.208E-04	2.623E-04	1.995E-04	1.605E-04
8	3.938E-05	2.593E-04	5.207E-04	7.281E-04	7.913E-04	7.792E-04	7.212E-04	6.609E-04	5.584E-04	4.491E-04	3.381E-04	2.706E-04
10	1.744E-04	1.192E-04	1.020E-03	1.277E-03	1.313E-03	1.223E-03	1.099E-03	9.883E-04	8.170E-04	6.465E-04	4.798E-04	3.819E-04
15	1.568E-03	2.558E-03	3.083E-03	3.091E-03	2.847E-03	2.335E-03	1.952E-03	1.672E-03	1.299E-03	9.782E-04	6.984E-04	5.459E-04
20	4.722E-03	5.647E-03	5.592E-03	4.723E-03	3.892E-03	2.738E-03	2.043E-03	1.594E-03	1.085E-03	7.147E-04	4.505E-04	3.296E-04
30	1.254E-02	1.037E-02	7.027E-03	3.165E-03	8.584E-04	-1.477E-03	-2.460E-03	-2.879E-03	-3.058E-03	-2.843E-03	-2.350E-03	-1.959E-03
45	5.784E-03	-4.216E-03	-1.716E-02	-2.042E-02	-2.357E-02	-2.519E-02	-2.649E-02	-2.354E-02	-2.092E-02	-1.752E-02	-1.358E-02	-1.102E-02
60	-3.972E-02	-5.351E-02	-6.791E-02	-7.046E-02	-7.142E-02	-6.945E-02	-6.515E-02	-6.065E-02	-5.255E-02	-4.335E-02	-3.324E-02	-2.686E-02
75	-1.135E-01	-1.263E-01	-1.350E-01	-1.388E-01	-1.374E-01	-1.297E-01	-1.206E-01	-1.118E-01	-9.658E-02	-7.949E-02	-6.093E-02	-4.924E-02
90	-1.921E-01	-2.632E-01	-2.107E-01	-2.136E-01	-2.109E-01	-2.000E-01	-1.870E-01	-1.742E-01	-1.518E-01	-1.258E-01	-9.702E-02	-7.864E-02
120	-2.747E-01	-2.905E-01	-3.067E-01	-3.224E-01	-3.307E-01	-3.330E-01	-3.266E-01	-3.159E-01	-2.901E-01	-2.522E-01	-2.024E-01	-1.673E-01
150	-1.945E-01	-2.125E-01	-2.347E-01	-2.642E-01	-2.880E-01	-3.248E-01	-3.513E-01	-3.701E-01	-3.910E-01	-3.954E-01	-3.701E-01	-3.336E-01
179	-7.164E-03	-7.955E-03	-8.979E-03	-1.047E-02	-1.181E-02	-1.428E-02	-1.661E-02	-1.885E-02	-2.321E-02	-2.955E-02	-3.990E-02	-5.010E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.762E-06	2.158E-06	1.772E-06	1.304E-06	9.333E-07	6.417E-07	4.854E-07	3.264E-07	2.459E-07	1.972E-07	1.413E-07	9.910E-08
2	1.209E-05	9.458E-06	7.763E-06	5.710E-06	3.995E-06	2.710E-06	2.050E-06	1.378E-06	1.038E-06	8.326E-07	5.984E-07	4.184E-07
3	2.824E-05	2.018E-05	1.811E-05	1.332E-05	9.298E-06	6.461E-06	4.887E-06	3.286E-06	2.475E-06	1.985E-06	1.422E-06	9.975E-07
4	5.148E-05	4.016E-05	3.292E-05	2.419E-05	1.730E-05	1.173E-05	8.873E-06	5.966E-06	4.493E-06	3.604E-06	2.582E-06	1.811E-06
6	1.152E-04	8.979E-05	7.355E-05	5.400E-05	3.060E-05	2.616E-05	1.979E-05	1.330E-05	1.002E-05	8.035E-06	5.756E-06	4.038E-06
8	1.933E-04	1.504E-04	1.230E-04	9.026E-05	6.449E-05	4.370E-05	3.304E-05	2.221E-05	1.673E-05	1.342E-05	9.611E-06	6.743E-06
10	2.715E-04	2.111E-04	1.725E-04	1.265E-04	9.070E-05	6.117E-05	4.624E-05	3.109E-05	2.341E-05	1.878E-05	1.345E-05	9.437E-06
15	3.820E-04	2.947E-04	2.401E-04	1.754E-04	1.250E-04	8.462E-05	6.390E-05	4.298E-05	3.237E-05	2.596E-05	1.859E-05	1.304E-05
20	2.166E-04	1.625E-04	1.303E-04	9.405E-05	6.051E-05	4.480E-05	3.382E-05	2.269E-05	1.708E-05	1.369E-05	9.808E-06	6.808E-06
30	-1.447E-03	-1.141E-03	-9.401E-04	-6.939E-04	-4.976E-04	-3.378E-04	-2.556E-04	-1.719E-04	-1.295E-04	-1.039E-04	-7.443E-05	-5.221E-05
45	-7.973E-03	-6.243E-03	-5.115E-03	-3.761E-03	-2.601E-03	-1.825E-03	-1.380E-03	-9.240E-04	-6.989E-04	-5.636E-04	-4.016E-04	-2.817E-04
60	-1.936E-02	-1.512E-02	-1.239E-02	-9.106E-03	-6.512E-03	-4.415E-03	-3.339E-03	-2.245E-03	-1.691E-03	-1.356E-03	-9.716E-04	-6.816E-04
75	-3.549E-02	-2.771E-02	-2.272E-02	-1.669E-02	-1.194E-02	-8.095E-03	-6.123E-03	-4.117E-03	-3.101E-03	-2.447E-03	-1.781E-03	-1.250E-03
90	-5.683E-02	-4.442E-02	-3.444E-02	-2.679E-02	-1.917E-02	-1.300E-02	-9.830E-03	-6.609E-03	-4.978E-03	-3.993E-03	-2.860E-03	-2.007E-03
120	-1.230E-01	-9.088E-02	-7.977E-02	-5.886E-02	-4.210E-02	-2.864E-02	-2.168E-02	-1.458E-02	-1.098E-02	-8.808E-03	-6.310E-03	-4.427E-03
150	-2.676E-01	-2.192E-01	-1.843E-01	-1.387E-01	-1.006E-01	-6.877E-02	-5.217E-02	-3.515E-02	-2.650E-02	-2.126E-02	-1.523E-02	-1.069E-02
179	-7.022E-02	-9.001E-02	-1.095E-01	-1.471E-01	-1.908E-01	-2.750E-01	-3.326E-01	-4.982E-01	-6.158E-01	-8.071E-01	-1.061E-01	-2.911E-01

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-6.522E-04	-1.073E-08	-1.645E-07	-1.476E-07	-2.012E-07	-1.439E-07	5.500E-06	7.363E-07	1.117E-07	1.492E-06	1.770E-06	3.177E-06
2	-5.585E-07	-3.769E-07	-7.503E-07	9.389E-07	-4.216E-07	2.176E-06	1.520E-06	1.357E-07	5.371E-07	3.966E-06	6.106E-06	1.277E-05
3	-1.474E-04	1.219E-06	1.595E-06	-1.367E-06	4.779E-06	-2.729E-06	5.600E-06	2.508E-06	9.040E-06	2.798E-06	3.966E-06	3.292E-05
4	3.919E-08	1.794E-06	-1.794E-06	2.457E-06	-5.555E-06	8.664E-06	-5.339E-06	1.920E-05	-5.842E-07	8.937E-06	5.213E-05	5.100E-05
6	-1.191E-06	-1.407E-05	-1.706E-05	-1.360E-05	4.513E-06	4.651E-06	2.373E-05	1.802E-05	1.050E-06	9.589E-05	9.540E-05	3.824E-05
8	3.894E-05	1.792E-05	4.910E-05	1.304E-04	-3.147E-06	4.638E-05	1.042E-04	-8.033E-05	1.333E-04	2.165E-04	3.901E-05	3.265E-05
10	-7.661E-05	-5.086E-05	-3.256E-05	1.151E-04	-1.209E-04	1.311E-04	-2.186E-04	7.376E-05	3.503E-04	2.208E-04	-1.233E-04	-8.188E-05
15	-2.361E-04	-2.915E-04	3.595E-04	-1.685E-04	4.827E-04	-2.024E-04	-2.186E-04	8.576E-04	1.581E-04	-6.096E-04	-3.412E-04	-6.188E-04
20	-1.688E-05	6.964E-04	7.866E-04	8.965E-04	-9.361E-04	-6.632E-04	1.546E-03	7.015E-04	-1.584E-03	1.365E-03	1.204E-03	3.344E-03
30	-1.486E-05	1.961E-03	3.565E-04	-1.548E-03	3.573E-03	3.715E-03	-1.887E-03	5.038E-03	3.227E-03	5.336E-03	1.153E-02	1.326E-02
40	8.389E-04	-3.726E-03	8.327E-03	1.421E-03	-1.254E-02	1.254E-02	-4.455E-03	1.299E-02	2.630E-02	2.849E-02	2.256E-02	1.958E-02
60	1.221E-02	4.053E-03	-1.640E-02	1.637E-02	2.670E-02	2.007E-02	7.984E-02	4.503E-02	2.230E-02	1.607E-02	-9.600E-03	-2.667E-02
75	-2.159E-02	-2.239E-02	2.962E-02	4.250E-02	5.169E-02	5.861E-02	4.360E-02	1.358E-02	-2.611E-02	-5.272E-02	-8.466E-02	-1.028E-01
90	8.591E-01	5.167E-02	6.600E-02	4.937E-02	2.502E-02	3.336E-03	-9.04E-02	-8.098E-02	1.211E-01	-1.445E-01	-1.710E-01	-1.860E-01
120	-2.364E-02	-7.697E-02	-1.063E-01	-1.402E-01	-1.594E-01	-1.730E-01	-1.907E-01	-2.076E-01	-2.259E-01	-2.387E-01	-2.573E-01	-2.708E-01
150	-9.102E-02	-9.173E-02	-1.027E-01	-1.103E-01	-1.161E-01	-1.209E-01	-1.286E-01	-1.382E-01	-1.503E-01	-1.600E-01	-1.755E-01	-1.982E-01
179	-2.909E-03	-3.175E-03	-3.176E-03	-3.687E-03	-3.925E-03	-4.122E-03	-4.443E-03	-4.820E-03	-5.307E-03	-5.699E-03	-6.336E-03	-6.863E-03
DEG	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02	1.5E+02	2.0E+02
1	3.151E-06	4.674E-06	6.262E-06	6.706E-06	6.802E-06	8.022E-06	7.882E-06	7.829E-06	7.125E-06	6.074E-06	4.633E-06	3.865E-06
2	1.595E-05	1.672E-05	1.834E-05	2.386E-05	3.013E-05	3.329E-05	3.420E-05	3.230E-05	2.960E-05	2.637E-05	2.042E-05	1.580E-05
3	3.135E-05	2.828E-05	3.607E-05	5.691E-05	7.103E-05	8.306E-05	8.447E-05	8.199E-05	7.391E-05	6.237E-05	4.858E-05	3.948E-05
4	3.913E-05	3.869E-05	6.644E-05	1.144E-04	1.427E-04	1.623E-04	1.621E-04	1.557E-04	1.387E-04	1.159E-04	8.951E-04	7.250E-04
6	2.509E-05	8.149E-05	2.025E-04	3.340E-04	3.921E-04	4.171E-04	4.017E-04	3.769E-04	3.272E-04	2.684E-04	2.044E-04	1.646E-04
8	2.004E-05	2.325E-04	5.005E-04	7.219E-04	7.951E-04	7.925E-04	7.385E-04	6.783E-04	5.752E-04	4.638E-04	3.998E-04	3.091E-04
10	1.271E-04	5.739E-04	1.004E-03	1.283E-03	1.374E-03	1.256E-03	1.135E-03	1.024E-03	8.505E-04	6.748E-04	5.018E-04	3.997E-04
15	4.655E-01	2.715E-03	3.121E-03	3.188E-03	2.961E-03	2.458E-03	2.049E-03	1.780E-03	1.391E-03	1.053E-03	7.543E-04	5.906E-04
20	3.132E-02	1.112E-02	7.794E-03	3.842E-03	1.947E-03	1.024E-03	2.264E-03	1.796E-03	1.246E-03	8.418E-04	5.433E-04	4.042E-04
35	7.582E-02	-2.741E-03	-2.208E-02	-1.972E-02	-2.365E-02	-2.493E-02	-2.091E-03	-2.566E-03	-2.816E-03	-2.661E-03	-2.240E-03	-1.856E-03
60	-3.836E-02	-2.489E-02	-6.381E-02	-7.079E-02	-7.273E-02	-7.007E-02	-6.573E-02	-6.343E-02	-5.312E-02	-4.379E-02	-3.358E-02	-2.713E-02
75	-1.144E-01	-1.278E-01	-1.364E-01	-1.409E-01	-1.545E-01	-1.317E-01	-1.224E-01	-1.134E-01	-9.798E-02	-8.062E-02	-6.178E-02	-4.982E-02
90	-2.814E-01	-2.072E-01	-2.151E-01	-2.177E-01	-2.150E-01	-2.036E-01	-1.903E-01	-1.772E-01	-1.543E-01	-1.278E-01	-9.853E-02	-7.984E-02
120	-2.814E-01	-2.975E-01	-3.139E-01	-3.298E-01	-3.374E-01	-3.400E-01	-3.322E-01	-3.272E-01	-2.955E-01	-2.567E-01	-2.058E-01	-1.701E-01
150	-1.990E-01	-2.173E-01	-2.401E-01	-2.703E-01	-2.947E-01	-3.322E-01	-3.591E-01	-3.782E-01	-3.992E-01	-4.033E-01	-3.770E-01	-3.396E-01
179	-7.326E-03	-8.136E-03	-9.185E-03	-1.071E-02	-1.208E-02	-1.462E-02	-1.700E-02	-1.930E-02	-2.376E-02	-3.025E-02	-4.095E-02	-5.129E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.768E-06	2.169E-06	1.799E-06	1.314E-06	9.409E-07	6.417E-07	4.834E-07	3.251E-07	2.448E-07	1.964E-07	1.407E-07	9.870E-08
2	1.216E-05	9.335E-06	7.827E-06	5.758E-06	4.121E-06	2.795E-06	2.114E-06	1.821E-06	1.071E-06	8.587E-07	6.152E-07	4.316E-07
3	2.234E-05	2.038E-05	1.834E-05	1.348E-05	9.944E-06	6.540E-06	4.947E-06	3.326E-06	2.505E-06	2.009E-06	1.439E-06	1.010E-06
4	5.233E-05	4.088E-05	3.352E-05	2.464E-05	1.742E-05	1.195E-05	9.037E-06	6.076E-06	4.576E-06	3.670E-06	2.629E-06	1.845E-06
6	1.182E-04	9.218E-05	7.551E-05	5.544E-05	3.944E-05	2.684E-05	2.032E-05	1.366E-05	1.029E-05	8.251E-06	5.911E-06	4.147E-06
8	2.003E-04	1.558E-04	1.275E-04	9.356E-05	6.684E-05	4.530E-05	3.425E-05	2.303E-05	1.734E-05	1.391E-05	9.964E-06	6.990E-06
10	2.844E-04	2.209E-04	1.808E-04	1.324E-04	9.454E-05	6.409E-05	4.843E-05	3.255E-05	2.452E-05	1.966E-05	1.409E-05	9.881E-06
15	4.141E-04	3.196E-04	2.605E-04	1.904E-04	1.357E-04	9.187E-05	6.944E-05	4.667E-05	3.514E-05	2.818E-05	2.019E-05	1.416E-05
20	2.696E-04	2.036E-04	1.641E-04	1.187E-04	8.408E-05	5.670E-05	4.281E-05	2.874E-05	2.164E-05	1.735E-05	1.243E-05	8.716E-06
30	-1.375E-03	-1.086E-03	-8.947E-04	-6.609E-04	-4.740E-04	-3.219E-04	-2.366E-04	-1.538E-04	-1.234E-04	-9.900E-05	-7.092E-05	-4.376E-05
40	-7.975E-03	-6.237E-03	-5.117E-03	-3.763E-03	-2.692E-03	-1.825E-03	-1.381E-03	-9.284E-04	-6.993E-04	-4.609E-04	-2.819E-04	-1.685E-04
60	-3.598E-02	-1.527E-02	-1.252E-02	-9.198E-03	-6.578E-03	-4.460E-03	-3.373E-03	-2.268E-03	-1.708E-03	-1.370E-03	-9.814E-04	-6.885E-04
90	-5.769E-02	-4.509E-02	-3.698E-02	-2.719E-02	-1.820E-02	-1.205E-02	-8.206E-03	-4.172E-03	-2.520E-03	-1.806E-03	-1.267E-03	-8.037E-04
120	-1.253E-01	-9.843E-02	-7.597E-02	-5.479E-02	-4.284E-02	-3.139E-02	-2.077E-02	-1.319E-02	-8.708E-03	-5.053E-03	-2.903E-03	-2.037E-03
150	-2.721E-01	-2.228E-01	-1.873E-01	-1.410E-01	-1.022E-01	-6.910E-02	-4.581E-02	-3.571E-02	-2.116E-02	-8.947E-03	-6.410E-03	-4.897E-03
179	-7.189E-02	-9.215E-02	-1.129E-01	-1.506E-01	-2.045E-01	-2.813E-01	-4.066E-01	-5.666E-01	-8.241E-01	-1.149E-01	-1.568E-01	-2.606E-01

ER (68) SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM ENERGY (MEV)

	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
DEG												
1	-1.612E-07	-9.850E-08	-1.181E-07	1.776E-07	-1.357E-07	3.977E-07	8.820E-08	1.366E-07	5.013E-07	8.178E-07	1.502E-06	3.132E-06
2	-5.701E-07	1.106E-07	-1.271E-07	2.701E-07	-6.448E-07	1.650E-06	7.010E-07	1.232E-06	5.093E-06	4.362E-06	6.059E-06	1.263E-05
3	-1.253E-06	2.591E-06	2.741E-06	2.538E-07	5.055E-06	-3.144E-06	6.732E-06	-4.992E-08	1.064E-05	2.695E-06	2.181E-05	3.307E-05
4	3.568E-06	-2.093E-06	-4.545E-06	-1.717E-06	-3.003E-06	5.166E-06	-4.055E-06	1.702E-05	1.304E-06	5.562E-06	5.337E-05	5.444E-05
6	9.855E-06	-1.900E-05	-8.942E-06	-3.904E-06	2.459E-05	6.503E-06	1.237E-05	2.976E-05	-1.122E-05	8.835E-05	1.060E-04	4.643E-05
8	2.940E-05	3.861E-05	3.285E-05	-1.190E-05	2.058E-05	-6.262E-05	1.139E-04	-7.567E-05	1.119E-04	2.271E-04	1.013E-05	-3.134E-05
10	-6.976E-05	-8.004E-05	1.081E-04	1.347E-04	-1.379E-04	9.631E-05	3.148E-05	-1.120E-04	3.490E-04	2.637E-04	-1.099E-04	-1.083E-04
15	-2.455E-04	-2.498E-04	3.617E-04	-2.774E-04	5.249E-04	-8.753E-05	-3.332E-04	8.414E-04	2.669E-04	-5.648E-04	-4.516E-04	4.643E-04
20	2.378E-04	7.510E-04	-8.075E-04	1.022E-03	-8.065E-04	-8.751E-04	1.458E-03	9.628E-04	-1.526E-03	-1.548E-03	9.140E-04	3.140E-03
30	6.550E-04	1.129E-03	1.032E-03	-2.143E-03	3.256E-03	4.142E-03	-1.286E-03	-5.238E-03	-1.075E-03	4.697E-03	1.144E-02	1.358E-02
45	2.433E-03	-5.136E-03	7.611E-03	3.103E-03	-9.537E-03	-1.315E-02	-5.206E-03	1.162E-02	2.679E-02	2.958E-02	2.445E-02	1.656E-02
60	1.065E-02	6.831E-02	-1.502E-02	-1.862E-02	-2.449E-04	1.780E-02	3.961E-02	4.702E-02	3.563E-02	1.948E-02	-6.854E-03	-2.462E-02
75	-1.962E-02	-2.562E-02	-3.813E-04	4.089E-02	5.067E-02	6.144E-02	4.813E-02	1.829E-02	-2.258E-02	-5.036E-02	-8.389E-02	-1.030E-01
90	4.406E-03	5.033E-02	6.763E-02	5.985E-02	3.470E-02	8.429E-03	-3.505E-02	-7.899E-02	-1.213E-01	-1.458E-01	-1.736E-01	-1.893E-01
120	-2.583E-02	-7.542E-02	-1.064E-01	-1.423E-01	-1.670E-01	-1.769E-01	-1.953E-01	-2.128E-01	-2.316E-01	-2.447E-01	-2.636E-01	-2.774E-01
150	-9.345E-02	-1.003E-01	-1.054E-01	-1.131E-01	-1.191E-01	-1.240E-01	-1.320E-01	-1.416E-01	-1.539E-01	-1.638E-01	-1.796E-01	-1.925E-01
179	-2.979E-03	-3.250E-03	-3.450E-03	-3.773E-03	-4.011E-03	-4.217E-03	-4.544E-03	-4.929E-03	-5.426E-03	-5.826E-03	-6.476E-03	-7.015E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	4.135E-06	5.586E-06	6.363E-06	6.139E-06	7.480E-06	8.023E-06	7.860E-06	7.497E-06	7.140E-06	6.093E-06	4.785E-06	3.797E-06
2	1.576E-05	1.728E-05	1.701E-05	2.420E-05	2.818E-05	3.205E-05	3.410E-05	3.328E-05	3.053E-05	2.532E-05	2.045E-05	1.690E-05
3	3.298E-05	2.960E-05	3.580E-05	5.526E-05	6.951E-05	8.221E-05	8.412E-05	8.196E-05	7.429E-05	6.288E-05	4.900E-05	3.985E-05
4	4.231E-05	3.786E-05	6.332E-05	1.105E-04	1.394E-04	1.613E-04	1.621E-04	1.564E-04	1.399E-04	1.172E-04	9.070E-05	7.353E-05
6	2.569E-05	7.182E-05	1.899E-04	3.251E-04	3.887E-04	4.189E-04	4.061E-04	3.825E-04	3.333E-04	2.741E-04	2.092E-04	1.684E-04
8	3.951E-06	2.047E-04	4.770E-04	7.137E-04	7.968E-04	8.043E-04	7.539E-04	6.940E-04	5.913E-04	4.781E-04	3.605E-04	2.895E-04
10	8.126E-05	5.250E-04	9.765E-04	1.284E-04	1.352E-03	1.287E-03	1.169E-03	1.059E-03	8.818E-04	7.075E-04	5.232E-04	4.171E-04
15	1.329E-03	2.459E-03	3.147E-03	3.279E-03	3.076E-03	2.582E-03	2.136E-03	1.889E-03	1.485E-03	1.128E-03	8.115E-04	6.366E-04
20	4.561E-03	5.817E-03	6.009E-03	5.265E-03	4.445E-03	3.243E-03	2.492E-03	1.999E-03	1.414E-03	9.735E-04	6.420E-04	4.819E-04
30	1.367E-02	1.187E-02	8.581E-03	4.547E-03	2.055E-03	-5.450E-04	-1.697E-03	-2.231E-03	-2.557E-03	-2.465E-03	-2.079E-03	-1.746E-03
45	9.462E-03	-1.174E-03	-1.090E-02	-1.895E-02	-2.251E-02	-2.462E-02	-2.433E-02	-2.330E-02	-2.079E-02	-1.746E-02	-1.356E-02	-1.101E-02
60	-3.685E-02	-5.206E-02	-6.361E-02	-7.104E-02	-7.277E-02	-7.063E-02	-6.635E-02	-6.180E-02	-5.362E-02	-4.420E-02	-3.390E-02	-2.739E-02
75	-1.151E-01	-1.292E-01	-1.381E-01	-1.429E-01	-1.416E-01	-1.336E-01	-1.242E-01	-1.151E-01	-9.936E-02	-8.173E-02	-6.261E-02	-5.059E-02
90	-1.993E-01	-2.112E-01	-2.192E-01	-2.219E-01	-2.190E-01	-2.073E-01	-1.935E-01	-1.802E-01	-1.568E-01	-1.298E-01	-1.000E-01	-8.104E-02
120	-2.482E-01	-3.045E-01	-3.211E-01	-3.371E-01	-3.449E-01	-3.470E-01	-3.398E-01	-3.283E-01	-3.009E-01	-2.611E-01	-2.093E-01	-1.728E-01
150	-2.036E-01	-2.225E-01	-2.457E-01	-2.765E-01	-3.013E-01	-3.396E-01	-3.670E-01	-3.863E-01	-4.075E-01	-4.112E-01	-3.839E-01	-3.455E-01
179	-7.489E-03	-8.318E-03	-9.391E-03	-1.095E-02	-1.236E-02	-1.496E-02	-1.740E-02	-1.975E-02	-2.431E-02	-3.096E-02	-4.180E-02	-5.249E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.762E-06	2.164E-06	1.815E-06	1.336E-06	9.566E-07	6.487E-07	4.908E-07	3.300E-07	2.486E-07	1.994E-07	1.428E-07	1.002E-07
2	1.226E-05	9.601E-06	7.882E-06	5.799E-06	4.150E-06	2.815E-06	2.129E-06	1.432E-06	1.078E-06	8.649E-07	6.196E-07	4.347E-07
3	2.886E-05	2.257E-05	1.852E-05	1.362E-05	9.747E-06	6.610E-06	5.000E-06	3.362E-06	2.532E-06	2.031E-06	1.455E-06	1.021E-06
4	5.311E-05	4.150E-05	3.403E-05	2.502E-05	1.789E-05	1.213E-05	9.177E-06	6.170E-06	4.648E-06	3.728E-06	2.670E-06	1.873E-06
6	1.210E-04	9.447E-05	7.732E-05	5.787E-05	4.060E-05	2.752E-05	2.081E-05	1.399E-05	1.054E-05	8.452E-06	6.055E-06	4.247E-06
8	2.071E-04	1.612E-04	1.319E-04	9.681E-05	6.918E-05	4.688E-05	3.545E-05	2.383E-05	1.795E-05	1.440E-05	1.031E-05	7.234E-06
10	2.970E-04	2.308E-04	1.887E-04	1.383E-04	9.681E-05	6.694E-05	5.062E-05	3.402E-05	2.562E-05	2.055E-05	1.472E-05	1.033E-05
15	4.470E-04	3.452E-04	2.815E-04	2.058E-04	1.467E-04	9.931E-05	7.507E-05	5.045E-05	3.799E-05	3.047E-05	2.183E-05	1.531E-05
20	3.248E-04	2.655E-04	1.992E-04	1.443E-04	1.026E-04	6.913E-05	5.220E-05	3.506E-05	2.639E-05	2.116E-05	1.516E-05	1.063E-05
30	-1.298E-03	-1.026E-03	-8.461E-04	-6.252E-04	-4.486E-04	-3.046E-04	-2.306E-04	-1.551E-04	-1.168E-04	-9.371E-05	-6.714E-05	-4.710E-05
45	-7.969E-03	-6.232E-03	-5.114E-03	-3.760E-03	-2.691E-03	-1.825E-03	-1.380E-03	-9.280E-04	-6.990E-04	-5.606E-04	-4.016E-04	-2.817E-04
60	-1.974E-02	-1.541E-02	-1.264E-02	-9.286E-03	-6.641E-03	-4.502E-03	-3.405E-03	-2.290E-03	-1.725E-03	-1.383E-03	-9.908E-04	-6.951E-04
75	-3.645E-02	-2.846E-02	-2.333E-02	-1.714E-02	-1.224E-02	-8.313E-03	-6.287E-03	-4.227E-03	-3.184E-03	-2.554E-03	-1.829E-03	-1.283E-03
90	-5.854E-02	-4.575E-02	-3.753E-02	-2.759E-02	-1.974E-02	-1.338E-02	-1.012E-02	-6.806E-03	-5.126E-03	-4.112E-03	-2.945E-03	-2.066E-03
120	-1.270E-01	-9.998E-02	-8.231E-02	-6.072E-02	-4.353E-02	-2.955E-02	-2.236E-02	-1.504E-02	-1.133E-02	-9.086E-03	-6.509E-03	-4.566E-03
150	-2.767E-01	-2.264E-01	-1.903E-01	-1.432E-01	-1.038E-01	-7.096E-02	-5.383E-02	-3.627E-02	-2.734E-02	-2.193E-02	-1.572E-02	-1.103E-02
179	-7.357E-02	-4.430E-02	-1.147E-01	-1.541E-01	-2.092E-01	-2.876E-01	-3.474E-01	-4.150E-01	-4.324E-01	-4.225E-01	-3.745E-01	-3.010E-01

TM (69)	SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)	
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-1.934E-07	-2.161E-07	1.746E-07	-3.425E-07	-3.685E-07	-4.528E-08	2.900E-07	4.070E-07	6.415E-07	1.653E-06	1.447E-06	1.893E-06
2	-2.458E-08	9.144E-07	4.265E-07	-3.824E-07	-5.364E-07	1.692E-06	-5.971E-07	1.253E-06	4.735E-06	5.500E-06	5.050E-06	1.185E-05
3	-1.249E-08	2.749E-06	3.384E-06	2.116E-06	4.430E-06	-1.994E-06	4.315E-06	-1.433E-06	1.207E-05	2.989E-06	1.934E-05	3.389E-05
4	5.107E-06	-5.206E-06	-6.200E-06	-4.703E-06	-9.667E-08	4.447E-07	-9.469E-07	1.398E-05	5.029E-06	2.333E-06	5.244E-05	5.770E-05
6	1.580E-05	-1.719E-05	2.080E-06	7.792E-06	1.475E-05	1.841E-05	-9.534E-07	4.084E-05	-2.003E-05	7.941E-05	1.164E-04	5.579E-05
8	7.884E-06	5.000E-05	9.081E-06	-3.451E-05	4.508E-05	-7.234E-05	1.180E-04	-6.571E-05	8.776E-05	2.333E-04	8.338E-05	-2.764E-05
10	-4.361E-05	-9.102E-05	5.539E-05	1.390E-04	-1.310E-04	5.456E-05	7.754E-05	-1.443E-04	3.396E-04	3.052E-04	-8.952E-05	-1.300E-04
15	-1.931E-04	-1.624E-04	3.174E-04	-3.631E-04	5.348E-04	4.095E-05	-4.350E-04	7.999E-04	3.998E-04	-5.024E-04	-5.534E-04	3.175E-04
20	4.607E-04	7.128E-04	-7.464E-04	1.085E-03	-6.245E-04	-1.053E-03	1.322E-03	1.218E-03	-1.432E-03	-1.709E-03	6.142E-04	2.912E-03
30	1.281E-03	4.864E-04	1.679E-03	-2.665E-03	2.872E-03	4.479E-03	-6.228E-04	-5.354E-03	-1.831E-03	4.006E-03	1.128E-02	1.384E-02
45	3.950E-03	-6.379E-03	6.628E-03	4.795E-03	-8.608E-03	-1.356E-02	-6.940E-03	1.010E-02	2.632E-02	3.057E-02	2.633E-02	1.860E-02
60	8.665E-03	9.573E-03	-1.328E-02	-2.070E-02	-3.260E-03	1.531E-02	7.910E-02	4.884E-02	3.900E-02	2.301E-02	-3.926E-03	-2.237E-02
75	-1.717E-02	-2.810E-02	-4.849E-03	3.890E-02	5.972E-02	6.404E-02	5.267E-02	2.320E-02	-1.877E-02	-4.775E-02	-8.291E-02	-1.030E-01
90	3.392E-05	4.857E-02	6.890E-02	6.667E-02	4.052E-02	1.410E-02	-1.071E-02	-7.668E-02	-1.212E-01	-1.470E-01	-1.762E-01	-1.925E-01
120	-2.171E-02	-7.358E-02	-1.063E-01	-1.443E-01	-1.661E-01	-1.807E-01	-1.999E-01	-2.181E-01	-2.373E-01	-2.508E-01	-7.700E-01	-2.840E-01
150	-9.592E-02	-1.030E-01	-1.082E-01	-1.160E-01	-1.221E-01	-1.271E-01	-1.353E-01	-1.450E-01	-1.575E-01	-1.676E-01	-1.838E-01	-1.969E-01
179	-3.050E-03	-3.327E-03	-3.538E-03	-3.860E-03	-4.107E-03	-4.312E-03	-4.646E-03	-5.039E-03	-5.545E-03	-5.954E-03	-6.618E-03	-7.169E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	4.062E-06	5.604E-06	5.328E-06	7.048E-06	7.315E-06	8.026E-06	7.837E-06	7.839E-06	7.151E-06	6.110E-06	4.802E-06	3.922E-06
2	1.623E-05	1.774E-05	1.872E-05	2.327E-05	2.774E-05	3.258E-05	3.372E-05	3.313E-05	2.950E-05	2.611E-05	2.081E-05	1.698E-05
3	3.484E-05	3.072E-05	3.538E-05	5.365E-05	6.792E-05	8.110E-05	8.363E-05	8.179E-05	7.444E-05	6.311E-05	4.934E-05	4.016E-05
4	4.577E-05	3.851E-05	6.059E-05	1.066E-04	1.360E-04	1.599E-04	1.620E-04	1.566E-04	1.408E-04	1.184E-04	9.176E-05	7.445E-05
6	2.724E-05	6.352E-05	1.769E-04	3.156E-04	3.872E-04	4.196E-04	4.096E-04	3.872E-04	3.388E-04	2.794E-04	2.137E-04	1.723E-04
8	-8.506E-06	1.761E-04	4.527E-04	7.022E-04	7.962E-04	8.145E-04	7.680E-04	7.103E-04	6.069E-04	4.920E-04	3.716E-04	2.981E-04
10	3.755E-05	4.751E-04	9.444E-04	1.281E-03	1.367E-03	1.317E-03	1.204E-03	1.093E-03	9.135E-04	7.286E-04	5.439E-04	4.340E-04
15	1.194E-03	2.390E-03	3.162E-03	3.363E-03	3.187E-03	2.705E-03	2.304E-03	1.999E-03	1.580E-03	1.205E-03	8.701E-04	6.836E-04
20	4.441E-03	5.870E-03	6.201E-03	5.534E-03	4.726E-03	3.505E-03	2.726E-03	2.210E-03	1.587E-03	1.111E-03	7.437E-04	5.628E-04
30	1.419E-02	1.261E-02	9.385E-03	5.280E-03	2.699E-03	-3.851E-05	-1.280E-03	-1.875E-03	-2.280E-03	-2.255E-03	-1.928E-03	-1.628E-03
45	1.142E-02	4.868E-04	-9.644E-03	-1.811E-02	-2.191E-02	-2.426E-02	-2.409E-02	-2.312E-02	-2.069E-02	-1.740E-02	-1.352E-02	-1.094E-02
60	-3.517E-02	-5.113E-02	-6.331E-02	-7.121E-02	-7.314E-02	-7.115E-02	-6.689E-02	-6.233E-02	-5.409E-02	-4.460E-02	-3.420E-02	-2.764E-02
75	-1.157E-01	-1.305E-01	-1.405E-01	-1.449E-01	-1.434E-01	-1.356E-01	-1.259E-01	-1.167E-01	-1.007E-01	-8.282E-02	-6.343E-02	-5.125E-02
90	-2.029E-01	-2.152E-01	-2.234E-01	-2.261E-01	-2.230E-01	-2.109E-01	-1.968E-01	-1.832E-01	-1.592E-01	-1.318E-01	-1.015E-01	-8.223E-02
120	-2.951E-01	-3.116E-01	-3.284E-01	-3.446E-01	-3.572E-01	-3.541E-01	-3.465E-01	-3.345E-01	-3.063E-01	-2.656E-01	-2.127E-01	-1.756E-01
150	-2.083E-01	-2.275E-01	-2.512E-01	-2.827E-01	-3.084E-01	-3.470E-01	-3.749E-01	-3.945E-01	-4.157E-01	-4.191E-01	-3.908E-01	-3.515E-01
179	-7.653E-03	-8.560E-03	-9.599E-03	-1.120E-02	-1.264E-02	-1.530E-02	-1.779E-02	-2.020E-02	-2.487E-02	-3.167E-02	-4.276E-02	-5.370E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.851E-06	2.171E-06	1.783E-06	1.313E-06	9.399E-07	6.376E-07	4.823E-07	3.243E-07	2.443E-07	1.959E-07	1.404E-07	9.847E-08
2	1.233E-05	9.655E-06	7.921E-06	5.833E-06	4.175E-06	2.832E-06	2.142E-06	1.440E-06	1.085E-06	8.702E-07	6.234E-07	4.373E-07
3	2.911E-05	2.277E-05	1.869E-05	1.375E-05	9.838E-06	6.672E-06	5.047E-06	3.393E-06	2.556E-06	2.050E-06	1.469E-06	1.030E-06
4	5.382E-05	4.206E-05	3.450E-05	2.536E-05	1.814E-05	1.230E-05	9.306E-06	6.257E-06	4.713E-06	3.780E-06	2.708E-06	1.900E-06
6	1.239E-04	9.666E-05	7.921E-05	5.817E-05	4.159E-05	2.819E-05	2.132E-05	1.434E-05	1.080E-05	8.660E-06	6.204E-06	4.352E-06
8	2.138E-04	1.665E-04	1.363E-04	1.000E-04	7.147E-05	4.843E-05	3.663E-05	2.462E-05	1.854E-05	1.477E-05	1.065E-05	7.474E-06
10	3.093E-04	2.404E-04	1.960E-04	1.441E-04	1.030E-04	6.975E-05	5.274E-05	3.546E-05	2.670E-05	2.142E-05	1.534E-05	1.076E-05
15	4.806E-04	3.714E-04	3.029E-04	2.215E-04	1.589E-04	1.069E-04	8.084E-05	5.433E-05	4.092E-05	3.281E-05	2.351E-05	1.649E-05
20	3.823E-04	2.912E-04	2.357E-04	1.711E-04	1.215E-04	8.208E-05	6.200E-05	4.164E-05	3.135E-05	2.514E-05	1.801E-05	1.263E-05
30	-1.215E-03	-9.615E-04	-7.930E-04	-5.868E-04	-4.212E-04	-2.861E-04	-1.666E-04	-1.457E-04	-1.097E-04	-8.802E-05	-6.306E-05	-4.424E-05
45	-7.954E-03	-6.221E-03	-5.102E-03	-3.754E-03	-2.684E-03	-1.822E-03	-1.378E-03	-9.265E-04	-6.979E-04	-5.597E-04	-4.010E-04	-2.813E-04
60	-1.992E-02	-1.555E-02	-1.275E-02	-9.370E-03	-6.701E-03	-4.543E-03	-3.430E-03	-2.310E-03	-1.740E-03	-1.396E-03	-9.998E-04	-7.014E-04
75	-3.692E-02	-2.803E-02	-2.353E-02	-1.736E-02	-1.242E-02	-8.419E-03	-6.368E-03	-4.281E-03	-3.225E-03	-2.586E-03	-1.853E-03	-1.300E-03
90	-5.939E-02	-4.641E-02	-3.807E-02	-2.799E-02	-2.002E-02	-1.357E-02	-1.027E-02	-6.904E-03	-5.200E-03	-4.170E-03	-2.988E-03	-2.096E-03
120	-1.296E-01	-1.015E-01	-8.757E-02	-6.165E-02	-4.413E-02	-3.000E-02	-2.270E-02	-1.527E-02	-1.150E-02	-9.224E-03	-6.608E-03	-4.630E-03
150	-2.812E-01	-2.300E-01	-1.933E-01	-1.454E-01	-1.054E-01	-7.205E-02	-5.465E-02	-3.682E-02	-2.775E-02	-2.227E-02	-1.596E-02	-1.120E-02
179	-7.526E-02	-9.646E-02	-1.173E-01	-1.576E-01	-2.139E-01	-2.939E-01	-3.547E-01	-4.234E-01	-4.407E-01	-4.303E-01	-3.809E-01	-3.059E-01

YB (70)	SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)	
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-2.353E-07	1.958E-08	1.087E-07	-1.217E-07	1.454E-08	-2.501E-08	3.644E-07	-9.161E-08	2.264E-07	1.606E-06	1.867E-06	2.129E-06
2	4.654E-07	7.273E-07	9.280E-07	-4.007E-07	2.077E-07	1.909E-07	-1.020E-06	1.999E-06	3.134E-06	5.320E-05	3.728E-05	1.103E-05
3	1.673E-06	1.898E-06	2.440E-06	3.651E-06	3.170E-06	-6.534E-07	7.514E-06	-1.559E-06	1.291E-05	3.673E-05	3.741E-05	1.334E-05
4	3.745E-06	-5.514E-06	-5.454E-06	-6.767E-06	4.500E-06	-2.612E-06	3.498E-06	1.069E-05	7.895E-06	-5.671E-07	5.082E-05	6.067E-05
6	1.614E-05	-9.106E-06	1.408E-05	1.933E-05	2.494E-06	2.966E-05	-1.191E-05	5.076E-05	-2.708E-05	6.935E-05	1.253E-04	6.694E-05
8	-1.722E-05	4.787E-05	-1.675E-05	-5.304E-05	6.004E-05	-7.481E-05	1.152E-04	-5.147E-05	6.149E-05	2.364E-04	1.082E-04	-2.051E-05
10	-4.620E-07	-7.974E-05	9.210E-05	1.273E-04	-1.151E-04	7.861E-06	1.224E-04	-1.695E-04	3.219E-04	3.439E-04	-6.319E-05	-1.463E-04
15	-8.843E-05	-4.155E-05	2.310E-04	-4.176E-04	5.100E-04	1.742E-04	-5.199E-04	7.364E-04	5.340E-04	-4.246E-04	-6.449E-04	1.695E-04
20	6.078E-04	5.825E-04	-6.059E-04	1.079E-03	-3.971E-04	-1.188E-03	1.142E-03	1.461E-03	-1.303E-03	-1.843E-03	3.071E-04	2.662E-03
30	1.788E-03	-2.189E-04	2.252E-03	-3.089E-03	2.281E-03	4.712E-03	9.121E-05	-5.381E-03	-2.582E-03	3.265E-03	1.105E-02	1.405E-02
45	5.291E-03	-7.392E-03	5.180E-03	6.456E-03	-7.445E-03	-1.377E-02	-8.642E-03	8.458E-03	2.608E-02	3.144E-02	2.820E-02	2.064E-02
60	6.311E-03	1.220E-02	-1.119E-02	-2.258E-02	-6.318E-02	1.259E-02	3.830E-02	5.048E-02	4.237E-02	2.667E-02	-8.146E-04	-1.997E-02
75	-1.426E-02	-3.057E-02	-8.905E-03	3.655E-02	5.961E-02	6.639E-02	5.720E-02	2.830E-02	-1.468E-02	-4.485E-02	-8.172E-02	-1.028E-01
90	-4.488E-03	4.640E-02	6.970E-02	6.937E-02	4.648E-02	2.005E-02	-2.601E-02	-7.404E-02	-1.208E-01	-1.480E-01	-1.786E-01	-1.956E-01
120	-1.728E-02	-7.143E-02	-1.050E-01	-1.462E-01	-1.069E-01	-1.845E-01	-2.046E-01	-2.234E-01	-2.432E-01	-2.569E-01	-2.766E-01	-2.908E-01
150	-9.843E-02	-1.056E-01	-1.110E-01	-1.190E-01	-1.251E-01	-1.302E-01	-1.386E-01	-1.485E-01	-1.612E-01	-1.715E-01	-1.880E-01	-2.014E-01
179	-3.121E-03	-3.404E-03	-3.420E-03	-3.948E-03	-4.200E-03	-4.409E-03	-4.750E-03	-5.150E-03	-5.666E-03	-6.083E-03	-6.761E-03	-7.323E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	2.596E-06	4.244E-06	6.560E-06	7.131E-06	7.559E-06	7.472E-06	7.812E-06	7.666E-06	7.159E-06	6.122E-06	4.816E-06	3.935E-06
2	1.547E-05	1.882E-05	1.744E-05	2.301E-05	2.012E-05	3.121E-05	3.338E-05	3.288E-05	3.038E-05	2.611E-05	2.056E-05	1.704E-05
3	3.627E-05	3.201E-05	3.505E-05	5.208E-05	6.638E-05	7.999E-05	8.299E-05	8.148E-05	7.447E-05	6.332E-05	4.954E-05	4.036E-05
4	4.945E-05	3.979E-05	5.786E-05	1.025E-04	1.377E-04	1.582E-04	1.614E-04	1.566E-04	1.415E-04	1.193E-04	9.269E-05	7.527E-05
6	3.093E-05	5.520E-05	1.638E-04	3.049E-04	3.772E-04	4.194E-04	4.123E-04	3.911E-04	3.437E-04	2.843E-04	2.178E-04	1.759E-04
8	-2.061E-05	1.496E-04	4.260E-04	6.893E-04	7.945E-04	8.229E-04	7.808E-04	7.256E-04	6.217E-04	5.054E-04	3.825E-04	3.070E-04
10	-4.186E-06	4.223E-04	1.274E-04	1.274E-03	1.378E-03	1.364E-03	1.236E-03	1.127E-03	9.445E-04	7.555E-04	5.656E-04	4.518E-04
15	1.051E-03	2.369E-03	3.165E-03	3.441E-03	3.294E-03	2.827E-03	2.423E-03	2.111E-03	1.676E-03	1.284E-03	9.298E-04	7.316E-04
20	4.294E-03	5.900E-03	6.380E-03	5.800E-03	5.009E-03	3.772E-03	2.967E-03	2.426E-03	1.766E-03	1.253E-03	8.493E-04	6.469E-04
30	1.467E-02	1.336E-02	1.021E-02	6.041E-03	3.372E-03	4.957E-04	-8.377E-04	-1.497E-03	-1.985E-03	-2.031E-03	-1.767E-03	-1.501E-03
45	1.346E-02	2.242E-03	-8.290E-03	-1.719E-02	-2.124E-02	-2.385E-02	-2.381E-02	-2.291E-02	-2.055E-02	-1.731E-02	-1.347E-02	-1.095E-02
60	-3.333E-02	-5.907E-02	-6.290E-02	-7.130E-02	-7.364E-02	-7.162E-02	-6.739E-02	-6.282E-02	-5.454E-02	-4.497E-02	-3.449E-02	-2.788E-02
75	-1.162E-01	-1.317E-01	-1.422E-01	-1.469E-01	-1.456E-01	-1.375E-01	-1.277E-01	-1.192E-01	-1.021E-01	-8.390E-02	-6.424E-02	-5.189E-02
90	-2.065E-01	-2.191E-01	-2.276E-01	-2.302E-01	-2.270E-01	-2.145E-01	-2.001E-01	-1.861E-01	-1.617E-01	-1.338E-01	-1.030E-01	-8.341E-02
120	-3.029E-01	-3.188E-01	-3.350E-01	-3.520E-01	-3.597E-01	-3.612E-01	-3.531E-01	-3.407E-01	-3.117E-01	-2.700E-01	-2.161E-01	-1.783E-01
150	-2.130E-01	-2.326E-01	-2.560E-01	-2.889E-01	-3.148E-01	-3.545E-01	-3.828E-01	-4.026E-01	-4.240E-01	-4.270E-01	-3.977E-01	-3.574E-01
179	-7.818E-03	-8.584E-03	-9.800E-03	-1.144E-02	-1.292E-02	-1.564E-02	-1.819E-02	-2.065E-02	-2.543E-02	-3.238E-02	-4.373E-02	-5.491E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.862E-06	2.242E-06	1.842E-06	1.356E-06	9.104E-07	6.583E-07	4.980E-07	3.349E-07	2.522E-07	2.023E-07	1.449E-07	1.017E-07
2	1.238E-05	9.698E-06	7.963E-06	5.860E-06	4.195E-06	2.845E-06	2.152E-06	1.447E-06	1.090E-06	8.743E-07	6.294E-07	4.396E-07
3	2.931E-05	2.294E-05	1.883E-05	1.185E-05	9.914E-06	6.724E-06	5.086E-06	3.420E-06	2.576E-06	2.066E-06	1.480E-06	1.038E-06
4	5.445E-05	4.257E-05	3.492E-05	2.568E-05	1.837E-05	1.246E-05	9.422E-06	6.335E-06	4.772E-06	3.827E-06	2.742E-06	1.923E-06
6	1.266E-04	9.875E-05	8.093E-05	5.945E-05	4.251E-05	2.881E-05	2.179E-05	1.465E-05	1.104E-05	8.851E-06	6.340E-06	4.448E-06
8	2.209E-04	1.713E-04	1.403E-04	1.031E-04	7.371E-05	4.996E-05	3.778E-05	2.540E-05	1.913E-05	1.534E-05	1.099E-05	7.710E-06
10	3.222E-04	2.505E-04	2.049E-04	1.502E-04	1.077E-04	7.271E-05	5.498E-05	3.696E-05	2.783E-05	2.232E-05	1.599E-05	1.122E-05
15	5.151E-04	3.983E-04	3.249E-04	2.376E-04	1.695E-04	1.148E-04	8.675E-05	5.830E-05	4.391E-05	3.521E-05	2.522E-05	1.769E-05
20	4.422E-04	3.377E-04	2.731E-04	1.990E-04	1.414E-04	9.557E-05	7.219E-05	4.849E-05	3.651E-05	2.928E-05	2.097E-05	1.471E-05
30	-1.125E-03	-8.924E-04	-7.373E-04	-5.456E-04	-3.918E-04	-2.662E-04	-2.015E-04	-1.356E-04	-1.021E-04	-8.192E-05	-5.869E-05	-4.117E-05
45	-7.930E-03	-6.203E-03	-5.091E-03	-3.744E-03	-2.679E-03	-1.817E-03	-1.374E-03	-9.240E-04	-6.960E-04	-5.582E-04	-3.999E-04	-2.805E-04
60	-2.009E-02	-1.569E-02	-1.280E-02	-9.450E-03	-6.750E-03	-4.582E-03	-3.466E-03	-2.330E-03	-1.755E-03	-1.408E-03	-1.008E-03	-7.074E-04
75	-3.739E-02	-2.919E-02	-2.293E-02	-1.754E-02	-1.247E-02	-8.524E-03	-6.447E-03	-4.334E-03	-3.265E-03	-2.618E-03	-1.876E-03	-1.316E-03
90	-6.023E-02	-4.707E-02	-3.860E-02	-2.838E-02	-2.010E-02	-1.376E-02	-1.041E-02	-7.000E-03	-5.273E-03	-4.229E-03	-3.029E-03	-2.125E-03
120	-1.309E-01	-1.031E-01	-8.483E-02	-6.257E-02	-4.484E-02	-3.044E-02	-2.304E-02	-1.549E-02	-9.361E-03	-6.706E-03	-4.706E-03	-3.136E-03
150	-2.857E-01	-2.336E-01	-1.963E-01	-1.476E-01	-1.070E-01	-7.313E-02	-5.547E-02	-3.737E-02	-2.817E-02	-2.260E-02	-1.620E-02	-1.136E-02
179	-7.696E-02	-9.864E-02	-1.199E-01	-1.611E-01	-2.186E-01	-3.003E-01	-4.623E-01	-6.318E-01	-8.489E-01	-4.380E-01	-3.874E-01	-3.108E-01

LU (71)		SHEKMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM								ENERGY (MEV)			
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
DEG													
1	-1.612E-07	1.457E-06	-2.740E-07	8.855E-08	-2.504E-08	4.341E-07	-2.005E-09	1.566E-07	3.106E-07	4.869E-07	1.974E-06	2.118E-06	
2	8.686E-07	4.860E-07	1.033E-06	-8.310E-07	7.241E-07	9.668E-07	-1.237E-06	2.462E-06	2.475E-06	6.293E-06	4.921E-06	1.074E-05	
3	2.317E-06	8.072E-08	1.762E-06	4.226E-06	1.274E-06	6.043E-07	6.849E-06	-2.906E-06	1.421E-05	3.759E-06	1.620E-05	3.288E-05	
4	1.163E-08	-3.833E-06	-2.565E-06	-7.322E-06	8.011E-06	-6.141E-06	6.454E-06	6.633E-06	1.181E-05	-2.542E-06	4.852E-05	6.327E-05	
6	7.345E-06	2.754E-06	2.260E-05	2.830E-05	-9.676E-06	3.750E-05	-2.223E-05	5.904E-05	-3.199E-05	5.669E-05	1.343E-04	7.826E-05	
8	-3.652E-05	3.322E-05	-3.940E-05	-6.398E-05	8.187E-05	-6.893E-05	1.051E-04	-3.156E-05	3.391E-05	2.346E-04	1.344E-04	-1.096E-05	
10	4.535E-05	-4.777E-05	1.142E-04	1.007E-04	-8.584E-05	-4.044E-05	1.636E-04	-1.859E-04	2.964E-04	3.779E-04	-3.118E-05	-1.578E-04	
15	4.385E-05	9.275E-05	1.136E-04	-4.348E-04	4.507E-04	3.059E-04	-5.810E-04	6.508E-04	6.660E-04	-3.284E-04	-7.251E-04	2.168E-05	
20	6.482E-04	3.724E-04	-3.961E-04	1.001E-03	-1.360E-04	-1.273E-03	9.223E-04	1.683E-03	-1.138E-03	-1.949E-03	-4.400E-06	2.390E-03	
30	2.110E-03	-9.331E-04	2.715E-03	-3.391E-03	1.045E-03	4.829E-03	8.431E-04	-5.313E-03	-3.318E-03	2.880E-03	1.075E-02	1.419E-02	
45	6.362E-03	-8.122E-03	3.905E-03	8.044E-03	-6.117E-03	-1.376E-02	-1.030E-02	6.688E-03	2.567E-02	3.219E-02	3.006E-02	2.282E-02	
60	3.652E-03	1.465E-02	-8.771E-03	-2.421E-02	-9.454E-03	9.673E-03	1.721E-02	5.191E-02	4.574E-02	3.044E-02	2.484E-03	-1.737E-02	
75	-1.091E-02	-3.272E-02	-1.701E-02	3.384E-02	5.953E-02	6.846E-02	6.168E-02	3.359E-02	-1.030E-02	-4.168E-02	-8.030E-02	-1.024E-01	
90	-9.124E-03	4.381E-02	7.025E-02	7.393E-02	5.255E-02	2.625E-02	-2.094E-02	-7.106E-02	-1.203E-01	-1.489E-01	-1.809E-01	-1.987E-01	
120	-1.253E-02	-6.896E-02	-1.054E-01	-1.480E-01	-1.172E-01	-1.883E-01	-2.093E-01	-2.225E-01	-2.491E-01	-2.632E-01	-2.832E-01	-2.976E-01	
150	-1.010E-01	-1.084E-01	-1.138E-01	-1.220E-01	-1.282E-01	-1.334E-01	-1.419E-01	-1.522E-01	-1.649E-01	-1.754E-01	-1.922E-01	-2.059E-01	
179	-3.193E-03	-3.482E-03	-3.702E-03	-4.037E-03	-4.294E-03	-4.507E-03	-4.854E-03	-5.262E-03	-5.788E-03	-6.213E-03	-6.904E-03	-7.478E-03	
		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
DEG													
1	3.915E-06	5.594E-06	6.652E-06	7.222E-06	7.610E-06	7.454E-06	9.060E-06	7.647E-06	7.165E-06	6.133E-06	4.828E-06	3.946E-06	
2	1.604E-05	1.927E-05	1.775E-05	2.362E-05	2.569E-05	3.077E-05	3.357E-05	3.292E-05	2.925E-05	2.524E-05	1.995E-05	1.632E-05	
3	3.755E-05	3.348E-05	3.494E-05	5.059E-05	6.468E-05	7.875E-05	8.223E-05	8.103E-05	7.439E-05	6.353E-05	4.965E-05	4.061E-05	
4	5.326E-05	4.119E-05	5.540E-05	9.812E-05	1.274E-04	1.561E-04	1.605E-04	1.566E-04	1.419E-04	1.201E-04	9.347E-05	7.597E-05	
6	3.682E-05	4.932E-05	1.500E-04	2.930E-04	3.090E-04	4.181E-04	4.141E-04	3.945E-04	3.482E-04	2.889E-04	2.218E-04	1.792E-04	
8	-2.856E-05	1.230E-04	3.975E-04	6.718E-04	7.087E-04	8.294E-04	7.923E-04	7.389E-04	6.357E-04	5.182E-04	3.930E-04	3.157E-04	
10	-4.300E-05	3.669E-04	8.680E-04	1.263E-03	1.385E-03	1.368E-03	1.266E-03	1.158E-03	9.748E-04	7.818E-04	5.865E-04	4.688E-04	
15	9.022E-04	2.216E-03	3.156E-03	3.510E-03	3.397E-03	2.947E-03	2.542E-03	2.223E-03	1.774E-03	1.364E-03	9.907E-04	7.806E-04	
20	4.120E-03	5.906E-03	6.543E-03	6.061E-03	5.292E-03	4.044E-03	3.214E-03	2.650E-03	1.952E-03	1.400E-03	9.589E-04	7.343E-04	
30	1.511E-02	1.409E-02	1.104E-02	6.829E-03	4.074E-03	1.058E-03	-3.700E-04	-1.096E-03	-1.671E-03	-1.792E-03	-1.594E-03	-1.365E-03	
45	1.557E-02	4.092E-03	-6.843E-03	-1.619E-02	-2.049E-02	-2.339E-02	-2.348E-02	-2.266E-02	-2.039E-02	-1.721E-02	-1.340E-02	-1.090E-02	
60	-3.130E-02	-4.885E-02	-6.231E-02	-7.131E-02	-7.376E-02	-7.203E-02	-6.784E-02	-6.327E-02	-5.495E-02	-4.533E-02	-3.477E-02	-2.810E-02	
75	-1.165E-01	-1.328E-01	-1.438E-01	-1.488E-01	-1.474E-01	-1.393E-01	-1.294E-01	-1.198E-01	-1.034E-01	-8.496E-02	-6.504E-02	-5.253E-02	
90	-2.109E-01	-2.231E-01	-2.317E-01	-2.344E-01	-2.310E-01	-2.181E-01	-2.033E-01	-1.891E-01	-1.642E-01	-1.357E-01	-1.045E-01	-8.458E-02	
120	-3.090E-01	-3.260E-01	-3.432E-01	-3.595E-01	-3.671E-01	-3.683E-01	-3.598E-01	-3.469E-01	-3.171E-01	-2.745E-01	-2.195E-01	-1.810E-01	
150	-2.177E-01	-2.377E-01	-2.624E-01	-2.952E-01	-3.214E-01	-3.620E-01	-3.907E-01	-4.108E-01	-4.323E-01	-4.350E-01	-4.046E-01	-3.632E-01	
179	-7.983E-03	-8.869E-03	-1.002E-02	-1.169E-02	-1.370E-02	-1.598E-02	-1.859E-02	-2.111E-02	-2.599E-02	-3.310E-02	-4.470E-02	-5.613E-02	
		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
DEG													
1	2.871E-06	2.250E-06	1.848E-06	1.360E-06	9.737E-07	6.605E-07	4.997E-07	3.360E-07	2.531E-07	2.030E-07	1.454E-07	1.020E-07	
2	1.188E-05	9.315E-06	7.652E-06	5.633E-06	4.073E-06	2.736E-06	2.070E-06	1.392E-06	1.048E-06	8.407E-07	6.023E-07	4.225E-07	
3	2.948E-05	2.308E-05	1.895E-05	1.394E-05	9.977E-06	6.767E-06	5.119E-06	3.442E-06	2.592E-06	2.079E-06	1.490E-06	1.045E-06	
4	5.503E-05	4.301E-05	3.525E-05	2.595E-05	1.857E-05	1.259E-05	9.525E-06	6.404E-06	4.824E-06	3.869E-06	2.772E-06	1.944E-06	
6	1.291E-04	1.007E-04	8.250E-05	6.065E-05	4.337E-05	2.940E-05	2.224E-05	1.495E-05	1.126E-05	9.031E-06	6.470E-06	4.539E-06	
8	2.264E-04	1.763E-04	1.444E-04	1.060E-04	7.575E-05	5.134E-05	3.882E-05	2.610E-05	1.966E-05	1.577E-05	1.129E-05	7.923E-06	
10	3.346E-04	2.602E-04	2.125E-04	1.561E-04	1.115E-04	7.556E-05	5.714E-05	3.841E-05	2.893E-05	2.320E-05	1.662E-05	1.166E-05	
15	5.502E-04	4.257E-04	3.473E-04	2.541E-04	1.817E-04	1.227E-04	9.278E-05	6.236E-05	4.696E-05	3.766E-05	2.698E-05	1.893E-05	
20	5.044E-04	3.860E-04	3.132E-04	2.280E-04	1.621E-04	1.096E-04	8.279E-05	5.561E-05	4.188E-05	3.358E-05	2.405E-05	1.687E-05	
30	-1.030E-03	-8.184E-04	-6.765E-04	-5.015E-04	-3.607E-04	-2.449E-04	-1.854E-04	-1.247E-04	-9.397E-05	-7.537E-05	-5.400E-05	-3.789E-05	
45	-7.896E-07	-6.178E-03	-5.070E-03	-3.729E-03	-2.068E-03	-1.810E-03	-1.369E-03	-9.204E-04	-6.933E-04	-5.560E-04	-3.983E-04	-2.794E-04	
60	-2.025E-02	-1.581E-02	-1.296E-02	-9.526E-03	-6.813E-03	-4.619E-03	-3.494E-03	-2.349E-03	-1.769E-03	-1.419E-03	-1.016E-03	-7.131E-04	
75	-3.784E-02	-2.954E-02	-2.422E-02	-1.779E-02	-1.272E-02	-8.627E-03	-6.525E-03	-4.387E-03	-3.304E-03	-2.650E-03	-1.898E-03	-1.332E-03	
90	-6.107E-02	-4.772E-02	-3.913E-02	-2.877E-02	-2.058E-02	-1.395E-02	-1.055E-02	-7.096E-03	-5.345E-03	-4.287E-03	-3.071E-03	-2.154E-03	
120	-1.329E-01	-1.046E-01	-8.608E-02	-6.349E-02	-4.651E-02	-3.089E-02	-2.337E-02	-1.572E-02	-1.184E-02	-9.498E-03	-6.804E-03	-4.774E-03	
150	-2.902E-01	-2.372E-01	-1.992E-01	-1.498E-01	-1.088E-01	-7.421E-02	-5.629E-02	-3.792E-02	-2.858E-02	-2.293E-02	-1.643E-02	-1.153E-02	
179	-7.867E-02	-1.008E-01	-1.220E-01	-1.647E-01	-2.244E-01	-3.067E-01	-3.698E-01	-4.402E-01	-4.572E-01	-4.457E-01	-3.938E-01	-3.157E-01	

HF (72)	SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM											ENERGY (MEV)
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-1.601E-07	-2.298E-07	-3.463E-07	-2.681E-07	3.673E-07	4.695E-07	7.886E-08	-2.387E-07	9.117E-07	3.806E-07	2.924E-06	3.102E-06
2	1.038E-07	5.135E-08	6.213E-07	1.298E-07	8.711E-07	7.443E-06	-8.019E-07	2.798E-06	2.476E-06	6.783E-06	7.189E-06	9.063E-06
3	1.773E-06	-1.428E-06	-4.204E-07	3.601E-06	-6.266E-07	2.854E-06	5.687E-06	-2.832E-06	1.406E-05	5.919E-06	1.415E-05	3.313E-05
4	-3.780E-06	3.156E-08	1.882E-06	-5.821E-06	1.119E-05	-8.021E-06	1.068E-05	1.817E-06	1.653E-05	-3.744E-06	4.558E-05	6.387E-05
6	-4.936E-06	1.473E-05	2.680E-05	3.264E-05	-2.047E-05	4.288E-05	-7.021E-05	6.516E-05	-3.448E-05	4.376E-05	1.408E-04	9.027E-05
8	-4.033E-05	8.603E-06	-5.37E-05	-6.461E-05	8.760E-05	-5.580E-05	8.897E-05	-8.394E-06	5.237E-06	2.275E-04	1.610E-04	2.980E-06
10	7.785E-05	-2.222E-06	1.178E-04	6.013E-05	-4.260E-05	-8.556E-05	1.984E-04	-1.931E-04	2.631E-04	4.076E-04	5.540E-06	-1.631E-04
15	1.718E-04	2.189E-04	-2.314E-05	-4.106E-04	3.594E-04	4.287E-04	-6.177E-04	5.447E-04	7.926E-04	-2.185E-04	-7.917E-04	-1.243E-04
20	5.690E-04	1.072E-04	-1.358E-04	8.530E-04	1.479E-04	-1.301E-03	6.668E-04	1.877E-03	-9.393E-04	-2.023E-03	-3.172E-04	2.099E-03
30	2.201E-03	-1.598E-03	3.031E-03	-3.553E-03	9.377E-04	4.820E-03	1.619E-03	-5.148E-03	-4.031E-03	1.656E-03	1.037E-02	1.428E-02
45	7.081E-03	-8.522E-03	2.244E-03	9.514E-03	-4.281E-03	-1.353E-02	-1.188E-02	4.805E-03	2.508E-02	3.280E-02	3.189E-02	2.499E-02
60	7.658E-04	1.685E-02	-6.057E-03	-2.557E-02	-1.257E-02	6.571E-03	3.581E-02	5.312E-02	4.908E-02	3.431E-02	5.970E-03	-1.456E-02
75	-7.176E-03	-3.451E-02	-1.712E-02	3.077E-02	5.905E-02	7.022E-02	6.609E-02	3.904E-02	-5.625E-03	-3.820E-02	-7.864E-02	-1.019E-01
90	-1.383E-02	4.082E-02	7.022E-02	7.830E-02	5.069E-02	3.270E-02	-1.550E-02	-6.771E-02	-1.194E-01	-1.495E-01	-1.832E-01	-2.017E-01
120	-7.466E-03	-6.614E-02	-1.045E-01	-1.496E-01	-1.152E-01	-1.921E-01	-2.140E-01	-2.342E-01	-2.551E-01	-2.695E-01	-2.898E-01	-3.045E-01
150	-1.036E-01	-1.111E-01	-1.167E-01	-1.250E-01	-1.314E-01	-1.367E-01	-1.453E-01	-1.545E-01	-1.687E-01	-1.793E-01	-1.965E-01	-2.104E-01
179	-3.267E-03	-3.561E-03	-3.780E-03	-4.127E-03	-4.389E-03	-4.606E-03	-4.959E-03	-5.375E-03	-5.911E-03	-6.344E-03	-7.049E-03	-7.635E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	3.847E-06	5.567E-06	6.736E-06	7.319E-06	7.670E-06	7.592E-06	8.063E-06	7.626E-06	7.169E-06	6.140E-06	4.837E-06	3.955E-06
2	1.581E-05	1.968E-05	1.812E-05	2.128E-05	2.063E-05	3.031E-05	3.280E-05	3.216E-05	3.030E-05	2.603E-05	2.056E-05	1.682E-05
3	3.866E-05	3.458E-05	3.500E-05	4.919E-05	6.191E-05	7.741E-05	8.134E-05	8.046E-05	7.418E-05	6.355E-05	4.917E-05	4.069E-05
4	5.759E-05	4.310E-05	5.291E-05	9.403E-05	1.251E-04	1.538E-04	1.593E-04	1.561E-04	1.419E-04	1.206E-04	9.410E-05	7.656E-05
6	4.297E-05	4.394E-05	1.392E-04	2.822E-04	3.620E-04	4.158E-04	4.150E-04	3.971E-04	3.519E-04	2.929E-04	2.254E-04	1.822E-04
8	-3.333E-05	9.736E-05	3.686E-04	6.555E-04	7.807E-04	8.341E-04	8.022E-04	7.511E-04	6.489E-04	5.305E-04	4.031E-04	3.241E-04
10	-7.832E-05	3.146E-04	8.241E-04	1.248E-03	1.389E-03	1.340E-03	1.295E-03	1.189E-03	1.005E-03	8.077E-04	6.071E-04	4.857E-04
15	7.468E-04	2.17E-03	3.132E-03	3.571E-03	3.994E-03	3.065E-03	2.660E-03	2.335E-03	1.872E-03	1.445E-03	1.053E-03	8.304E-04
20	3.920E-03	5.00E-03	6.689E-03	6.316E-03	5.575E-03	4.320E-03	3.466E-03	2.879E-03	2.143E-03	1.552E-03	1.072E-03	8.248E-04
30	1.551E-02	1.481E-02	1.189E-02	7.644E-03	4.806E-03	1.649E-03	1.236E-04	-6.714E-04	-1.337E-03	-1.537E-03	-1.410E-03	-1.220E-03
45	1.776E-02	6.039E-03	-5.296E-03	-1.510E-02	-1.968E-02	-2.287E-02	-2.310E-02	-2.237E-02	-2.019E-02	-1.707E-02	-1.317E-02	-1.083E-02
60	-2.909E-02	-4.748E-02	-6.172E-02	-7.122E-02	-7.386E-02	-7.239E-02	-6.825E-02	-6.369E-02	-5.533E-02	-4.566E-02	-3.502E-02	-2.831E-02
75	-1.167E-01	-1.337E-01	-1.453E-01	-1.506E-01	-1.495E-01	-1.411E-01	-1.310E-01	-1.213E-01	-1.047E-01	-8.600E-02	-6.582E-02	-5.315E-02
90	-2.134E-01	-2.270E-01	-2.359E-01	-2.385E-01	-2.350E-01	-2.217E-01	-2.069E-01	-1.920E-01	-1.666E-01	-1.377E-01	-1.059E-01	-8.574E-02
120	-3.161E-01	-3.333E-01	-3.507E-01	-3.671E-01	-3.764E-01	-3.754E-01	-3.665E-01	-3.531E-01	-3.225E-01	-2.789E-01	-2.228E-01	-1.838E-01
150	-2.224E-01	-2.429E-01	-2.681E-01	-3.015E-01	-3.284E-01	-3.695E-01	-3.987E-01	-4.191E-01	-4.406E-01	-4.429E-01	-4.115E-01	-3.693E-01
179	-8.150E-03	-9.054E-03	-1.023E-02	-1.194E-02	-1.348E-02	-1.632E-02	-1.899E-02	-2.156E-02	-2.655E-02	-3.382E-02	-4.568E-02	-5.735E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.878E-06	2.256E-06	1.853E-06	1.364E-06	9.765E-07	6.624E-07	5.011E-07	3.370E-07	2.538E-07	2.036E-07	1.458E-07	1.023E-07
2	1.225E-05	9.601E-06	7.887E-06	5.806E-06	4.154E-06	2.820E-06	2.133E-06	1.434E-06	1.080E-06	8.665E-07	6.208E-07	4.355E-07
3	2.982E-05	2.285E-05	1.877E-05	1.381E-05	9.889E-06	6.705E-06	5.072E-06	3.411E-06	2.569E-06	2.060E-06	1.476E-06	1.050E-06
4	5.547E-05	4.339E-05	3.561E-05	2.619E-05	1.874E-05	1.271E-05	9.613E-06	6.646E-06	4.869E-06	3.905E-06	2.797E-06	1.962E-06
6	1.314E-04	1.025E-04	8.408E-05	6.178E-05	4.418E-05	2.995E-05	2.265E-05	1.523E-05	1.147E-05	9.201E-06	6.591E-06	4.625E-06
8	2.325E-04	1.812E-04	1.484E-04	1.089E-04	7.787E-05	5.278E-05	3.991E-05	2.683E-05	2.021E-05	1.501E-05	1.161E-05	8.145E-06
10	3.469E-04	2.698E-04	2.208E-04	1.619E-04	1.157E-04	7.839E-05	5.928E-05	3.985E-05	3.001E-05	2.407E-05	1.724E-05	1.210E-05
15	5.860E-04	4.536E-04	3.702E-04	2.709E-04	1.737E-04	1.309E-04	8.894E-05	6.650E-05	5.008E-05	4.016E-05	2.877E-05	2.018E-05
20	5.689E-04	4.361E-04	3.542E-04	2.580E-04	1.836E-04	1.241E-04	9.379E-05	6.301E-05	4.744E-05	3.805E-05	2.725E-05	1.912E-05
30	-9.276E-04	-7.394E-04	-6.125E-04	-4.543E-04	-3.266E-04	-2.221E-04	-1.682E-04	-1.132E-04	-8.525E-05	-6.838E-05	-4.899E-05	-3.437E-05
45	-7.852E-03	-6.144E-03	-5.043E-03	-3.710E-03	-2.655E-03	-1.800E-03	-1.362E-03	-9.157E-04	-6.897E-04	-5.532E-04	-3.963E-04	-2.780E-04
60	-2.040E-02	-1.593E-02	-1.306E-02	-9.597E-03	-6.864E-03	-4.653E-03	-3.520E-03	-2.366E-03	-1.782E-03	-1.429E-03	-1.024E-03	-7.184E-04
75	-3.829E-02	-2.989E-02	-2.450E-02	-1.800E-02	-1.287E-02	-8.728E-03	-6.601E-03	-4.438E-03	-3.343E-03	-2.681E-03	-1.921E-03	-1.347E-03
90	-6.190E-02	-4.836E-02	-3.960E-02	-2.915E-02	-2.085E-02	-1.414E-02	-1.070E-02	-7.191E-03	-5.416E-03	-4.344E-03	-3.112E-03	-2.183E-03
120	-1.349E-01	-1.061E-01	-8.733E-02	-6.441E-02	-4.616E-02	-3.133E-02	-2.371E-02	-1.595E-02	-1.201E-02	-9.634E-03	-6.902E-03	-4.862E-03
150	-2.947E-01	-2.408E-01	-2.022E-01	-1.520E-01	-1.107E-01	-7.528E-02	-5.710E-02	-3.847E-02	-2.900E-02	-2.326E-02	-1.667E-02	-1.170E-02
179	-8.038E-02	-1.030E-01	-1.252E-01	-1.682E-01	-2.282E-01	-3.131E-01	-7.774E-01	-4.486E-01	-4.655E-01	-4.534E-01	-4.002E-01	-3.205E-01

TA (73)		SHERMAN FUNCTION: DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM							ENERGY (MEV)				
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02	
1	-1.555E-07	-1.719E-07	-3.973E-07	-1.914E-07	6.714E-08	-2.006E-07	2.144E-04	-2.611E-07	6.466E-07	8.540E-07	2.980E-06	3.137E-06	
2	-6.396E-07	-7.390E-07	3.136E-07	4.982E-07	1.244E-06	-4.644E-07	-1.426E-07	3.520E-06	1.102E-06	6.645E-06	4.700E-06	8.675E-06	
3	-5.258E-07	-2.114E-06	-1.910E-06	3.351E-06	-2.210E-06	4.242E-06	4.023E-06	-2.184E-06	1.396E-05	6.758E-06	1.211E-05	3.224E-05	
4	-5.145E-06	4.330E-06	5.610E-06	-1.978E-06	1.255E-05	-9.031E-06	1.395E-05	-2.286E-06	1.984E-05	-4.085E-06	4.205E-05	6.539E-05	
6	-1.515E-05	2.221E-05	2.765E-05	3.236E-05	-2.774E-05	4.453E-05	-3.523E-05	6.918E-05	-3.474E-05	3.120E-05	1.466E-04	1.029E-04	
8	-2.798E-05	-1.870E-05	-5.677E-05	-5.415E-05	8.814E-05	3.549E-05	6.744E-05	1.868E-05	-2.207E-05	2.164E-04	1.881E-04	2.189E-05	
10	8.474E-05	4.666E-05	1.001E-04	1.175E-05	2.296E-06	-1.243E-04	2.252E-04	-1.903E-04	2.230E-04	4.315E-04	4.782E-05	-1.617E-04	
15	2.636E-04	3.131E-04	-1.615E-04	-3.453E-04	2.411E-04	5.341E-04	-6.253E-04	4.207E-04	9.111E-04	-9.451E-05	-8.436E-04	-2.667E-04	
20	3.802E-04	-1.812E-04	1.535E-04	6.422E-04	4.401E-04	-1.269E-03	3.840E-04	2.041E-03	-7.084E-04	-2.062E-03	-6.282E-04	1.789E-03	
30	2.039E-03	-2.159E-03	3.174E-03	-3.560E-03	1.657E-04	4.680E-03	2.402E-03	-4.883E-03	-4.712E-03	8.004E-04	9.917E-03	1.429E-02	
45	7.387E-03	-8.559E-03	4.443E-04	1.082E-02	-2.874E-03	-1.305E-02	-1.336E-02	2.873E-03	2.430E-02	3.326E-02	3.367E-02	2.719E-02	
60	-2.257E-03	1.871E-02	-3.087E-03	-2.663E-02	-1.966E-02	3.309E-03	3.411E-02	5.407E-02	5.237E-02	3.827E-02	9.646E-03	-1.156E-02	
75	-3.116E-03	-3.588E-02	-2.121E-02	2.736E-02	5.816E-02	7.164E-02	7.039E-02	4.465E-02	-6.505E-02	-3.442E-02	-7.673E-02	-1.011E-01	
90	-1.857E-02	3.743E-02	6.988E-02	8.244E-02	6.487E-02	3.938E-02	-9.672E-03	-6.397E-02	-1.183E-01	-1.499E-01	-1.853E-01	-2.046E-01	
120	-2.097E-02	-6.295E-02	-1.034E-01	-1.510E-01	-1.741E-01	-1.959E-01	-2.188E-01	-2.397E-01	-2.612E-01	-2.759E-01	-2.966E-01	-3.115E-01	
150	-1.062E-01	-1.140E-01	-1.196E-01	-1.281E-01	-1.346E-01	-1.400E-01	-1.488E-01	-1.591E-01	-1.726E-01	-1.834E-01	-2.008E-01	-2.150E-01	
179	-3.341E-03	-3.641E-03	-3.870E-03	-4.218E-03	-4.485E-03	-4.706E-03	-5.066E-03	-5.489E-03	-6.035E-03	-6.476E-03	-7.195E-03	-7.792E-03	
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00	
1	3.787E-06	5.526E-06	6.813E-06	6.357E-06	7.739E-06	7.852E-06	8.070E-06	7.605E-06	7.172E-06	6.146E-06	4.844E-06	3.962E-06	
2	1.480E-05	1.957E-05	1.854E-05	2.120E-05	2.707E-05	2.985E-05	3.151E-05	3.266E-05	2.996E-05	2.503E-05	2.049E-05	1.653E-05	
3	3.956E-05	3.626E-05	3.458E-05	4.791E-05	6.178E-05	7.602E-05	8.021E-05	7.977E-05	7.386E-05	6.347E-05	4.991E-05	4.020E-05	
4	6.232E-05	4.550E-05	5.130E-05	9.038E-05	1.214E-04	1.511E-04	1.577E-04	1.552E-04	1.418E-04	1.209E-04	9.458E-05	7.703E-05	
6	5.121E-05	3.994E-05	1.267E-04	2.695E-04	3.529E-04	4.123E-04	4.149E-04	3.989E-04	3.551E-04	2.965E-04	2.287E-04	1.851E-04	
8	-3.292E-05	7.325E-05	3.388E-04	6.332E-04	7.705E-04	8.367E-04	4.105E-04	7.619E-04	6.618E-04	5.421E-04	4.127E-04	3.322E-04	
10	-1.096E-04	2.546E-04	7.766E-04	1.228E-03	1.388E-03	1.409E-03	1.321E-03	1.217E-03	1.034E-03	8.328E-04	6.267E-04	5.018E-04	
15	5.867E-04	1.992E-03	3.100E-03	3.622E-03	3.985E-03	3.181E-03	2.777E-03	2.448E-03	1.971E-03	1.527E-03	1.115E-03	8.811E-04	
20	3.693E-03	5.841E-03	6.817E-03	6.563E-03	5.857E-03	4.600E-03	3.724E-03	3.113E-03	2.339E-03	1.709E-03	1.190E-03	9.185E-04	
30	1.586E-02	1.551E-02	1.275E-02	8.483E-03	5.564E-03	2.270E-03	6.439E-04	-2.229E-04	-9.837E-04	-1.267E-03	-1.214E-03	-1.065E-03	
45	2.002E-02	8.084E-03	-3.653E-03	-1.392E-02	-1.879E-02	-2.228E-02	-2.268E-02	-2.204E-02	-1.996E-02	-1.691E-02	-1.321E-02	-1.075E-02	
60	-2.669E-02	-4.595E-02	-6.093E-02	-7.104E-02	-7.395E-02	-7.269E-02	-4.861E-02	-6.406E-02	-5.569E-02	-4.596E-02	-3.526E-02	-2.850E-02	
75	-1.166E-01	-1.346E-01	-1.460E-01	-1.524E-01	-1.513E-01	-1.429E-01	-1.327E-01	-1.228E-01	-1.059E-01	-8.702E-02	-6.659E-02	-5.377E-02	
90	-2.168E-01	-2.308E-01	-2.400E-01	-2.426E-01	-2.389E-01	-2.253E-01	-2.098E-01	-1.949E-01	-1.690E-01	-1.396E-01	-1.074E-01	-8.689E-02	
120	-3.232E-01	-3.407E-01	-3.582E-01	-3.747E-01	-3.821E-01	-3.626E-01	-3.732E-01	-3.594E-01	-3.279E-01	-2.834E-01	-2.262E-01	-1.865E-01	
150	-2.272E-01	-2.481E-01	-2.738E-01	-3.079E-01	-3.353E-01	-3.771E-01	-4.067E-01	-4.273E-01	-4.489E-01	-4.508E-01	-4.184E-01	-3.752E-01	
179	-8.318E-03	-9.241E-03	-1.044E-02	-1.218E-02	-1.374E-02	-1.667E-02	-1.939E-02	-2.202E-02	-2.412E-02	-3.455E-02	-4.666E-02	-5.859E-02	
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02	
1	2.884E-06	2.261E-06	1.857E-06	1.367E-06	9.787E-07	6.640E-07	5.023E-07	3.378E-07	2.544E-07	2.041E-07	1.462E-07	1.026E-07	
2	1.205E-05	9.448E-06	7.763E-06	5.716E-06	4.093E-06	2.777E-06	2.101E-06	1.413E-06	1.064E-06	8.534E-07	6.113E-07	4.287E-07	
3	2.991E-05	2.322E-05	1.907E-05	1.403E-05	1.004E-05	6.774E-06	5.200E-06	3.497E-06	2.634E-06	2.112E-06	1.513E-06	1.062E-06	
4	5.585E-05	4.371E-05	3.587E-05	2.639E-05	1.888E-05	1.281E-05	9.688E-06	6.514E-06	4.906E-06	3.935E-06	2.819E-06	1.978E-06	
6	1.335E-04	1.043E-04	8.540E-05	6.287E-05	4.493E-05	3.046E-05	2.304E-05	1.549E-05	1.167E-05	9.356E-06	6.703E-06	4.702E-06	
8	2.385E-04	1.859E-04	1.523E-04	1.118E-04	7.991E-05	5.416E-05	4.096E-05	2.754E-05	2.074E-05	1.664E-05	1.192E-05	8.360E-06	
10	3.587E-04	2.791E-04	2.284E-04	1.675E-04	1.197E-04	8.111E-05	6.134E-05	4.123E-05	3.185E-05	2.491E-05	1.784E-05	1.252E-05	
15	6.224E-04	4.820E-04	3.935E-04	2.880E-04	2.055E-04	1.392E-04	1.052E-04	7.071E-05	5.325E-05	4.271E-05	3.059E-05	2.146E-05	
20	6.357E-04	4.881E-04	3.967E-04	2.897E-04	2.059E-04	1.392E-04	1.052E-04	7.067E-05	5.322E-05	4.268E-05	3.057E-05	2.144E-05	
30	-8.188E-04	-6.552E-04	-5.437E-04	-4.040E-04	-2.908E-04	-1.978E-04	-1.498E-04	-1.008E-04	-7.596E-05	-6.093E-05	-4.369E-05	-3.063E-05	
45	-7.798E-03	-6.103E-03	-5.010E-03	-3.685E-03	-2.637E-03	-1.789E-03	-1.353E-03	-9.097E-04	-6.852E-04	-5.496E-04	-3.937E-04	-2.762E-04	
60	-2.054E-02	-1.604E-02	-1.315E-02	-9.664E-03	-6.911E-03	-4.686E-03	-3.544E-03	-2.383E-03	-1.795E-03	-1.439E-03	-1.031E-03	-7.234E-04	
75	-3.873E-02	-3.023E-02	-2.470E-02	-1.821E-02	-1.302E-02	-8.827E-03	-6.676E-03	-4.488E-03	-3.381E-03	-2.711E-03	-1.942E-03	-1.363E-03	
90	-6.272E-02	-4.900E-02	-4.010E-02	-2.954E-02	-2.113E-02	-1.432E-02	-1.084E-02	-7.285E-03	-5.487E-03	-4.041E-03	-3.153E-03	-2.212E-03	
120	-1.368E-01	-1.076E-01	-8.857E-02	-6.532E-02	-4.581E-02	-3.177E-02	-2.404E-02	-1.617E-02	-1.218E-02	-9.769E-03	-6.999E-03	-4.910E-03	
150	-2.992E-01	-2.444E-01	-2.052E-01	-1.542E-01	-1.111E-01	-7.635E-02	-5.791E-02	-3.901E-02	-2.941E-02	-2.359E-02	-1.691E-02	-1.180E-02	
179	-8.211E-02	-1.052E-01	-1.279E-01	-1.718E-01	-2.330E-01	-3.196E-01	-3.849E-01	-4.571E-01	-4.738E-01	-4.611E-01	-4.066E-01	-3.254E-01	

W (74)		SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)	
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02	
1	-2.183F-07	-1.807E-07	-6.044E-08	3.973E-07	5.116E-07	-3.074E-07	-1.987E-07	-2.465E-07	1.928E-06	1.474E-06	2.271E-06	3.188E-06	
2	-8.030E-07	-7.249E-07	3.924E-08	1.342E-06	1.071E-06	-7.553E-07	-4.356E-07	3.659E-07	2.051E-06	6.792E-06	3.647E-06	8.097E-06	
3	-1.997E-07	-2.037E-06	-2.852E-06	9.984E-07	-3.176E-06	6.044E-06	7.050E-06	-7.969E-06	1.336E-05	8.616E-06	1.016E-05	3.104E-05	
4	-3.483E-06	7.374E-06	8.463E-06	2.327E-06	1.167E-05	-8.288E-06	1.682E-05	-5.516E-06	2.351E-05	-3.918E-06	3.636E-05	6.668E-05	
6	-1.800E-05	2.293E-05	1.548E-05	2.638E-05	-3.136E-05	4.172E-05	-3.673E-05	6.947E-05	-3.187E-05	1.755E-05	1.496E-04	1.156E-04	
8	-2.460E-06	-4.135E-05	-4.466E-05	-3.529E-05	7.048E-05	-9.455E-06	4.091E-05	4.663E-05	-4.810E-05	2.008E-04	2.147E-04	4.048E-05	
10	6.311E-05	8.689E-05	6.412E-05	-3.907E-05	5.292E-05	-1.531E-04	2.409E-04	-1.765E-04	1.768E-04	4.484E-04	9.479E-05	-1.543E-04	
15	2.944E-04	3.593E-04	-2.825E-04	-2.445E-04	1.025E-04	6.151E-04	-6.037E-04	2.819E-04	1.018E-03	4.155E-05	-8.779E-04	-4.040E-04	
20	1.122E-04	-4.566E-04	4.415E-04	3.801E-04	7.248E-04	-1.174E-03	8.169E-05	2.165E-03	-4.481E-04	-2.066E-03	-9.338E-04	1.462E-03	
30	1.633E-03	-2.564E-03	3.127E-03	-3.406E-03	-6.332E-04	4.407E-03	3.176E-03	-4.518E-03	-5.350E-03	-8.027E-05	9.388E-03	1.424E-02	
45	7.243E-03	-8.214E-03	-1.431E-03	1.193E-02	-1.027E-03	-1.234E-02	-1.473E-02	7.557E-04	2.333E-02	3.355E-02	3.541E-02	2.942E-02	
60	-5.317E-03	2.019E-02	9.215E-05	-2.734E-02	-1.069E-02	-9.189E-05	3.211E-02	5.474E-02	5.560E-02	4.230E-02	1.351E-02	-8.351E-03	
75	1.702E-03	-3.681E-02	-2.521E-02	2.362E-02	5.084E-02	7.270E-02	7.456E-02	5.038E-02	4.624E-03	-3.032E-02	-7.455E-02	-1.002E-01	
90	-2.329E-02	3.365E-02	6.901E-02	8.633E-02	7.106E-02	4.626E-02	-3.466E-03	-5.984E-02	-1.168E-01	-1.501E-01	-1.872E-01	-2.075E-01	
120	3.576E-03	-5.939E-02	-1.019E-01	-1.523E-01	-1.808E-01	-1.996E-01	-2.262E-01	-2.452E-01	-2.674E-01	-2.824E-01	-3.035E-01	-3.186E-01	
150	-1.089E-01	-1.168E-01	-1.220E-01	-1.312E-01	-1.374E-01	-1.433E-01	-1.522E-01	-1.628E-01	-1.764E-01	-1.874E-01	-2.051E-01	-2.196E-01	
179	-3.416E-03	-3.722E-03	-3.955E-03	-4.310E-03	-4.582E-03	-4.807E-03	-5.173E-03	-5.604E-03	-6.160E-03	-6.609E-03	-7.341E-03	-7.950E-03	
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00	
1	3.737E-06	5.473E-06	6.879E-06	6.417E-06	6.514E-06	7.427E-06	8.080E-06	7.851E-06	7.005E-06	6.150E-06	4.850E-06	3.967E-06	
2	1.476E-05	2.034E-05	1.901E-05	2.118E-05	2.004E-05	3.214E-05	3.110E-05	3.189E-05	2.976E-05	2.578E-05	2.044E-05	1.675E-05	
3	4.020E-05	3.802E-05	3.596E-05	4.684E-05	5.567E-05	7.452E-05	7.908E-05	7.895E-05	7.343E-05	6.330E-05	4.995E-05	4.084E-05	
4	6.611E-05	4.836E-05	5.047E-05	8.632E-05	1.173E-04	1.480E-04	1.559E-04	1.541E-04	1.415E-04	1.211E-04	9.419E-05	7.737E-05	
6	6.148E-05	3.647E-05	1.147E-04	2.560E-04	3.422E-04	4.084E-04	4.140E-04	3.997E-04	3.577E-04	2.997E-04	2.316E-04	1.876E-04	
8	-3.266E-05	5.051E-05	3.066E-04	6.106E-04	7.587E-04	8.372E-04	8.170E-04	7.713E-04	6.730E-04	5.529E-04	4.219E-04	3.399E-04	
10	-1.366E-04	2.043E-04	7.256E-04	1.203E-03	1.384E-03	1.425E-03	1.345E-03	1.244E-03	1.061E-03	8.581E-04	6.470E-04	5.185E-04	
15	4.733E-04	1.863E-03	3.052E-03	3.664E-03	3.649E-03	3.294E-03	2.893E-03	2.560E-03	2.071E-03	1.610E-03	1.179E-03	9.324E-04	
20	3.439E-03	5.766E-03	6.925E-03	6.802E-03	6.137E-03	4.883E-03	3.987E-03	3.354E-03	2.542E-03	1.871E-03	1.311E-03	1.015E-03	
30	1.615E-02	1.018E-02	1.351E-02	9.347E-03	6.359E-03	2.920E-03	1.191E-03	2.503E-04	-6.097E-04	-9.804E-04	-1.006E-03	-9.014E-04	
45	2.234E-02	1.023E-02	-1.905E-03	-1.266E-02	-1.782E-02	-2.164E-02	-2.220E-02	-2.166E-02	-1.969E-02	-1.673E-02	-1.308E-02	-1.066E-02	
60	-2.409E-02	-4.425E-02	-6.002E-02	-7.075E-02	-7.395E-02	-7.293E-02	-6.892E-02	-6.439E-02	-5.600E-02	-4.624E-02	-3.548E-02	-2.868E-02	
75	-1.165E-01	-1.353E-01	-1.481E-01	-1.541E-01	-1.531E-01	-1.446E-01	-1.343E-01	-1.243E-01	-1.072E-01	-8.801E-02	-6.734E-02	-5.437E-02	
90	-2.202E-01	-2.347E-01	-2.440E-01	-2.467E-01	-2.429E-01	-2.289E-01	-2.130E-01	-1.978E-01	-1.714E-01	-1.415E-01	-1.088E-01	-8.803E-02	
120	-3.305E-01	-3.482E-01	-3.459E-01	-3.824E-01	-3.897E-01	-3.897E-01	-3.799E-01	-3.656E-01	-3.333E-01	-2.878E-01	-2.296E-01	-1.892E-01	
150	-2.321E-01	-2.533E-01	-2.795E-01	-3.143E-01	-3.422E-01	-3.847E-01	-4.148E-01	-4.356E-01	-4.573E-01	-4.588E-01	-4.253E-01	-3.811E-01	
179	-8.487E-03	-9.442E-03	-1.065E-02	-1.243E-02	-1.405E-02	-1.701E-02	-1.980E-02	-2.248E-02	-2.769E-02	-3.527E-02	-4.764E-02	-5.982E-02	
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02	
1	2.889E-06	2.265E-06	1.860E-06	1.370E-06	9.806E-07	6.652E-07	5.032E-07	3.384E-07	2.549E-07	2.044E-07	1.465E-07	1.027E-07	
2	1.221E-05	9.431E-06	7.750E-06	5.707E-06	4.087E-06	2.773E-06	2.098E-06	1.411E-06	8.522E-07	6.105E-07	4.283E-07	3.051E-07	
3	2.972E-05	2.329E-05	1.913E-05	1.408E-05	1.008E-05	6.836E-06	5.172E-06	3.473E-06	2.616E-06	2.098E-06	1.503E-06	1.054E-06	
4	5.615E-05	4.395E-05	3.604E-05	2.655E-05	1.900E-05	1.288E-05	9.747E-06	6.554E-06	4.936E-06	3.959E-06	2.836E-06	1.990E-06	
6	1.354E-04	1.058E-04	8.470E-05	6.377E-05	4.562E-05	3.093E-05	2.339E-05	1.573E-05	1.185E-05	9.501E-06	6.806E-06	4.775E-06	
8	2.442E-04	1.904E-04	1.560E-04	1.145E-04	8.188E-05	5.550E-05	4.197E-05	2.822E-05	2.125E-05	1.705E-05	1.221E-05	8.566E-06	
10	3.709E-04	2.887E-04	2.363E-04	1.734E-04	1.219E-04	8.394E-05	6.348E-05	4.267E-05	3.214E-05	2.578E-05	1.846E-05	1.295E-05	
15	6.594E-04	5.108E-04	4.171E-04	3.054E-04	2.179E-04	1.476E-04	1.116E-04	7.499E-05	5.647E-05	4.529E-05	3.244E-05	2.276E-05	
20	7.049E-04	5.418E-04	4.407E-04	3.214E-04	2.289E-04	1.548E-04	1.170E-04	7.861E-05	5.919E-05	4.747E-05	3.400E-05	2.385E-05	
30	-1.031E-04	-5.657E-04	-4.700E-04	-3.505E-04	-2.326E-04	-1.720E-04	-1.303E-04	-8.768E-05	-6.607E-05	-5.300E-05	-3.797E-05	-2.664E-05	
45	-7.733E-03	-6.053E-03	-4.967E-03	-3.656E-03	-2.016E-03	-1.774E-03	-1.342E-03	-9.026E-04	-6.798E-04	-5.453E-04	-3.906E-04	-2.740E-04	
60	-2.067E-02	-1.614E-02	-1.323E-02	-9.725E-03	-6.955E-03	-4.715E-03	-3.267E-03	-2.398E-03	-1.806E-03	-1.449E-03	-1.038E-03	-7.280E-04	
75	-3.915E-02	-3.056E-02	-2.505E-02	-1.841E-02	-1.316E-02	-8.923E-03	-6.749E-03	-4.538E-03	-3.418E-03	-2.741E-03	-1.964E-03	-1.378E-03	
90	-6.353E-02	-4.563E-02	-4.070E-02	-2.991E-02	-2.140E-02	-1.451E-02	-1.097E-02	-7.378E-03	-5.557E-03	-4.457E-03	-3.193E-03	-2.240E-03	
120	-1.387E-01	-1.091E-01	-8.981E-02	-6.622E-02	-4.744E-02	-3.221E-02	-2.437E-02	-1.639E-02	-1.235E-02	-9.904E-03	-7.095E-03	-4.978E-03	
150	-3.037E-01	-2.480E-01	-2.081E-01	-1.564E-01	-1.137E-01	-7.742E-02	-5.372E-02	-3.956E-02	-2.982E-02	-2.392E-02	-1.714E-02	-1.203E-02	
179	-8.384E-02	-1.074E-01	-1.306E-01	-1.754E-01	-2.378E-01	-3.260E-01	-4.925E-01	-6.655E-01	-8.821E-01	-1.168E-01	-1.629E-01	-2.302E-01	

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-1.811E-07	5.647E-08	1.747E-07	-1.598E-07	2.448E-08	-4.012E-07	2.808E-07	-1.991E-07	6.808E-07	1.495E-06	2.302E-06	3.255E-06
2	-3.689E-07	-6.777E-07	-6.440E-07	-2.072E-07	-3.394E-07	-6.394E-07	-4.202E-07	4.030E-06	-2.440E-08	7.159E-06	4.994E-06	6.559E-06
3	-1.668E-06	-5.264E-07	-2.171E-06	-9.218E-07	-3.112E-06	6.206E-06	-5.407E-08	1.025E-06	1.307E-05	-1.059E-05	8.372E-06	2.954E-05
4	-1.215E-06	6.903E-06	7.931E-06	6.366E-06	9.488E-06	-5.226E-06	1.787E-05	-7.989E-06	2.805E-05	-2.523E-06	3.180E-05	6.654E-05
6	-1.137E-06	1.602E-05	2.836E-06	3.677E-05	3.414E-05	3.414E-05	-3.413E-05	6.568E-05	-2.645E-05	4.144E-06	1.510E-04	1.276E-04
8	-2.539E-05	-2.244E-05	-2.513E-05	-9.273E-05	5.873E-05	1.922E-05	1.234E-05	7.507E-05	-7.125E-05	1.816E-04	2.403E-04	6.363E-05
10	1.433E-05	1.088E-04	1.530E-05	8.606E-05	1.019E-04	-1.689E-04	2.443E-04	1.523E-04	1.254E-04	4.577E-04	1.440E-04	1.404E-04
15	2.531E-04	3.459E-04	3.635E-04	1.141E-04	4.591E-05	6.663E-04	-5.513E-04	1.321E-04	1.111E-03	1.877E-04	-0.965E-04	-5.343E-04
20	-1.470E-04	-6.821E-04	6.994E-04	8.282E-05	9.843E-04	-1.020E-03	-2.316E-04	2.246E-03	1.618E-04	-2.031E-03	-1.231E-03	1.122E-03
30	1.018E-04	-2.774E-03	2.882E-03	3.088E-03	-1.477E-03	4.002E-03	3.993E-03	-1.380E-03	5.938E-03	-0.791E-02	3.784E-02	1.410E-02
45	6.633E-04	-1.484E-03	-3.141E-03	1.280E-02	9.374E-04	-1.138E-02	1.596E-02	-4.054E-03	2.217E-02	3.368E-02	8.707E-02	3.166E-02
60	8.310E-03	2.122E-02	3.426E-03	-2.769E-02	-2.145E-02	-3.603E-02	7.980E-02	5.613E-02	5.873E-02	4.639E-02	1.756E-02	4.927E-03
75	5.698E-03	-3.725E-02	-2.908E-02	1.957E-02	5.514E-02	7.337E-02	7.854E-02	5.623E-02	1.020E-02	-2.589E-02	-7.208E-02	-9.897E-02
90	-2.796E-02	2.951E-02	6.767E-02	8.991E-02	7.722E-02	5.332E-02	3.125E-03	-5.529E-02	-1.151E-01	-1.501E-01	-1.891E-01	-2.102E-01
120	4.539E-03	-5.544E-02	1.001E-01	-1.533E-01	-1.834E-01	-2.033E-01	-2.284E-01	-2.509E-01	-2.736E-01	-2.890E-01	-3.104E-01	-3.258E-01
150	-1.118E-01	-1.197E-01	-1.256E-01	-1.344E-01	-1.471E-01	-1.467E-01	-1.558E-01	-1.665E-01	-1.803E-01	-1.915E-01	-2.095E-01	-2.242E-01
179	-3.491E-03	-3.804E-03	-4.042E-03	-4.403E-03	-4.640E-03	-4.909E-03	-5.262E-03	-5.720E-03	-6.287E-03	-6.744E-03	-7.489E-03	-8.109E-03
5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E-01	1.0E-01	1.5E-01	2.0E-01
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	3.701E-06	5.440E-06	6.934E-06	7.098E-06	7.501E-06	8.147E-06	7.517E-06	7.858E-06	6.989E-06	6.154E-06	4.854E-06	3.972E-06
2	1.453E-05	1.862E-05	1.950E-05	2.123E-05	2.509E-05	2.895E-05	7.086E-05	3.075E-05	2.925E-05	2.564E-05	1.967E-05	1.615E-05
3	3.573E-05	4.041E-05	3.638E-05	4.587E-05	5.807E-05	7.296E-05	7.786E-05	7.802E-05	7.288E-05	6.303E-05	4.985E-05	4.074E-05
4	6.970E-05	5.165E-05	4.948E-05	8.253E-05	1.131E-04	1.448E-04	1.537E-04	1.598E-04	1.411E-04	1.208E-04	9.507E-05	7.758E-05
6	3.546E-05	2.466E-05	1.023E-04	2.426E-04	3.314E-04	4.020E-04	4.120E-04	1.998E-04	3.596E-04	5.022E-04	3.204E-04	1.899E-04
8	-2.1697E-05	2.993E-05	5.880E-04	7.440E-04	8.356E-04	8.356E-04	8.218E-04	7.791E-04	4.829E-04	6.299E-04	4.304E-04	3.471E-04
10	-1.581E-04	1.502E-04	7.21E-04	1.174E-03	1.373E-03	1.438E-03	1.366E-03	1.269E-03	1.071E-03	8.807E-04	6.655E-04	5.338E-04
15	2.583E-04	1.722E-03	2.991E-03	3.694E-03	3.744E-03	3.403E-03	3.008E-03	2.671E-03	2.181E-03	1.694E-03	1.243E-03	9.843E-04
20	3.162E-03	5.663E-03	7.011E-03	7.031E-03	6.415E-03	5.168E-03	4.254E-03	3.599E-03	2.749E-03	2.238E-03	1.636E-03	1.115E-03
30	1.477E-02	1.447E-02	1.447E-02	1.023E-02	7.178E-02	3.549E-02	1.766E-02	7.487E-04	-2.148E-04	-6.769E-04	-7.851E-04	-7.273E-04
45	2.472E-02	1.246E-02	5.295E-05	-1.130E-02	-1.677E-02	-2.093E-02	-2.167E-02	-2.124E-02	-1.939E-02	-1.651E-02	-1.294E-02	-1.055E-02
60	-2.128E-02	-4.236E-02	-5.895E-02	-7.036E-02	-7.387E-02	-7.310E-02	-6.918E-02	-6.467E-02	-5.629E-02	-4.648E-02	-3.568E-02	-2.884E-02
75	-1.161E-01	-1.359E-01	-1.493E-01	-1.558E-01	-1.548E-01	-1.463E-01	-1.358E-01	-1.257E-01	-1.084E-01	-8.899E-02	-6.807E-02	-5.495E-02
90	-2.234E-01	-2.385E-01	-2.481E-01	-2.508E-01	-2.448E-01	-2.324E-01	-2.162E-01	-2.006E-01	-1.738E-01	-1.434E-01	-1.102E-01	-8.916E-02
120	-3.378E-01	-3.557E-01	-3.735E-01	-3.901E-01	-3.973E-01	-3.969E-01	-3.718E-01	-3.387E-01	-2.922E-01	-2.329E-01	-1.919E-01	-1.591E-01
150	-2.370E-01	-2.540E-01	-2.652E-01	-3.207E-01	-3.491E-01	-3.924E-01	-4.228E-01	-4.438E-01	-4.656E-01	-4.667E-01	-4.322E-01	-3.870E-01
179	-8.656E-03	-9.617E-03	-1.087E-02	-1.268E-02	-1.441E-02	-1.736E-02	-2.020E-02	-2.295E-02	-2.826E-02	-3.601E-02	-4.863E-02	-6.106E-02
3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02	
DEG	2.892E-06	2.268E-06	1.863E-06	1.372E-06	9.820E-07	6.662E-07	5.040E-07	3.389E-07	2.553E-07	2.048E-07	1.467E-07	1.029E-07
1	1.179E-05	9.254E-06	7.607E-06	5.603E-06	4.012E-06	2.722E-06	2.060E-06	1.385E-06	1.043E-06	8.367E-07	5.994E-07	4.205E-07
2	2.966E-05	2.355E-05	1.862E-05	1.386E-05	9.723E-06	6.732E-06	5.093E-06	3.425E-06	2.579E-06	2.059E-06	1.482E-06	1.040E-06
3	5.632E-05	4.413E-05	3.623E-05	2.666E-05	1.904E-05	1.294E-05	9.790E-06	6.593E-06	4.959E-06	3.977E-06	2.849E-06	1.999E-06
4	1.072E-04	8.794E-05	6.464E-05	4.624E-05	3.135E-05	2.371E-05	1.594E-05	1.201E-05	9.632E-06	6.900E-06	4.841E-06	
6	1.977E-04	1.367E-04	1.171E-04	8.475E-05	5.617E-05	4.293E-05	2.886E-05	2.174E-05	1.744E-05	1.249E-05	8.763E-06	
8	2.821E-04	2.475E-04	2.036E-04	1.787E-04	1.277E-04	8.655E-05	6.545E-05	4.400E-05	3.314E-05	2.658E-05	1.904E-05	1.336E-05
10	7.763E-04	5.400E-04	4.411E-04	3.230E-04	2.308E-04	1.561E-04	1.180E-04	7.932E-05	5.974E-05	4.701E-05	3.432E-05	2.408E-05
15	5.807E-04	3.705E-04	2.930E-04	2.527E-04	1.709E-04	1.257E-04	8.681E-05	6.537E-05	5.242E-05	3.755E-05	2.634E-05	
30	-2.656E-03	-9.946E-03	-4.921E-03	-3.621E-03	-2.592E-03	-1.445E-04	1.095E-04	7.373E-05	5.556E-05	-4.47E-05	-3.194E-05	-2.241E-05
45	-6.24E-02	-1.624E-02	-1.131E-02	-9.781E-03	-6.496E-03	-4.758E-03	-3.307E-03	-2.412E-03	-1.817E-03	-1.457E-03	-1.044E-03	-7.322E-04
60	-2.079E-02	-5.94E-02	-4.21E-02	-3.029E-02	-2.167E-02	-1.469E-02	-6.821E-03	-4.586E-03	-3.454E-03	-2.770E-03	-1.985E-03	-1.392E-03
75	-3.957E-02	-3.049E-02	-2.532E-02	-1.860E-02	-1.330E-02	-8.743E-03	-6.821E-03	-5.627E-03	-4.513E-03	-3.737E-03	-2.681E-03	
90	-6.433E-02	-5.055E-02	-4.121E-02	-3.029E-02	-2.167E-02	-1.469E-02	-2.471E-02	-1.662E-02	-1.252E-02	-8.04E-02	-7.192E-02	-5.045E-02
120	-1.407E-01	-1.106E-01	-9.103E-02	-6.713E-02	-4.810E-02	-3.265E-02	-2.471E-02	-1.662E-02	-1.252E-02	-8.04E-02	-7.192E-02	-5.045E-02
150	-3.081E-01	-2.515E-01	-2.111E-01	-1.586E-01	-1.145E-01	-7.848E-02	-5.952E-02	-4.010E-02	-3.022E-02	-2.455E-02	-1.738E-02	-1.219E-02
179	-8.558E-02	-1.047E-01	-1.333E-01	-1.790E-01	-2.442E-01	-3.325E-01	-4.000E-01	-4.740E-01	-4.903E-01	-4.765E-01	-4.193E-01	-3.351E-01

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-7.116E-08	-3.519E-07	-1.561E-07	3.538E-07	4.437E-07	5.633E-09	-2.371E-07	1.860E-07	7.392E-07	1.482E-07	1.600E-06	3.333E-06
2	4.659E-07	9.038E-08	-1.094E-06	1.414E-06	-1.020E-06	-7.856E-07	1.752E-06	3.764E-06	-3.451E-07	6.995E-06	5.329E-06	7.779E-06
3	-5.545E-08	2.047E-06	-9.974E-07	-2.253E-06	-2.714E-06	5.861E-06	-1.594E-06	2.590E-06	1.163E-05	1.254E-05	6.801E-05	7.779E-05
4	4.875E-06	3.822E-06	5.640E-06	9.401E-06	5.794E-06	-1.869E-06	1.685E-05	-1.018E-05	2.904E-05	1.260E-07	2.673E-05	6.631E-05
6	1.183E-06	3.312E-06	1.104E-05	2.613E-05	-2.391E-05	2.356E-05	2.822E-05	5.936E-05	-1.830E-05	8.542E-06	1.499E-04	1.394E-04
8	4.476E-06	-4.896E-05	3.323E-06	3.231E-05	3.271E-05	4.792E-05	1.792E-05	1.025E-04	-9.019E-05	1.577E-04	2.648E-04	9.110E-05
10	-3.389E-05	1.057E-04	-3.774E-05	1.227E-04	1.444E-04	1.106E-04	2.349E-04	-1.180E-04	7.114E-05	4.568E-04	2.648E-04	-1.199E-04
15	1.476E-04	2.733E-04	4.902E-04	3.499E-05	1.644E-04	6.34E-04	4.686E-04	-2.442E-05	1.145E-03	3.476E-04	-8.970E-04	-6.572E-04
20	-4.61E-04	-8.255E-04	9.008E-04	-2.297E-04	1.244E-03	-8.076E-04	-5.452E-04	2.279E-03	1.474E-04	-1.956E-03	1.515E-03	7.696E-04
30	2.566E-03	-2.762E-03	2.449E-03	-2.615E-03	-2.741E-03	3.470E-03	4.625E-03	-3.449E-03	6.464E-03	-1.988E-03	8.107E-03	1.389E-02
45	5.586E-03	-6.380E-03	5.201E-03	1.339E-02	2.742E-02	1.018E-02	-1.703E-02	3.566E-02	2.082E-02	3.361E-02	3.866E-02	3.390E-02
60	-1.113E-02	2.175E-02	6.450E-03	-2.765E-02	-2.440E-02	7.198E-02	2.719E-02	5.521E-02	6.174E-02	5.053E-02	2.180E-02	-1.289E-02
75	1.028E-02	3.716E-02	3.274E-02	1.523E-02	4.598E-02	7.363E-02	8.232E-02	6.215E-02	1.608E-02	-2.111E-02	-6.932E-02	-0.753E-02
90	-3.251E-02	2.502E-02	6.587E-02	9.315E-02	8.331E-02	6.053E-02	4.232E-02	5.010E-02	-1.130E-01	-1.498E-01	-1.907E-01	-2.179E-01
120	1.578E-02	-5.108E-02	-9.791E-02	-1.542E-01	-1.861E-01	-2.069E-01	-2.332E-01	-2.565E-01	-2.799E-01	-2.956E-01	-3.175E-01	-3.331E-01
150	-1.133E-01	-1.227E-01	-1.287E-01	-1.377E-01	-1.445E-01	-1.501E-01	-1.594E-01	-1.702E-01	-1.843E-01	-1.957E-01	-2.114E-01	-2.287E-01
179	-3.586E-03	-3.887E-03	-4.124E-03	-4.497E-03	-4.770E-03	-5.012E-03	-5.792E-03	-5.833E-03	-6.414E-03	-6.879E-03	-7.638E-03	-8.270E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	2.243E-06	5.335E-06	5.491E-06	6.541E-06	7.904E-06	8.190E-06	7.906E-06	7.867E-06	6.973E-06	6.022E-06	4.858E-06	3.975E-06
2	1.268E-05	1.881E-05	2.191E-05	2.388E-05	2.564E-05	2.576E-05	2.264E-05	3.122E-05	2.934E-05	2.537E-05	2.029E-05	1.604E-05
3	3.974E-05	4.187E-05	3.730E-05	4.508E-05	5.655E-05	7.136E-05	7.615E-05	7.687E-05	7.273E-05	6.266E-05	4.967E-05	4.069E-05
4	7.298E-05	5.533E-05	5.008E-05	7.894E-05	1.090E-04	1.414E-04	1.513E-04	1.510E-04	1.403E-04	1.205E-04	9.507E-05	7.767E-05
6	3.357E-05	3.607E-05	9.108E-05	2.285E-04	3.194E-04	3.666E-04	4.089E-04	3.949E-04	3.608E-04	3.042E-04	2.362E-04	1.919E-04
8	-1.589E-05	1.047E-05	2.435E-04	5.592E-04	7.264E-04	8.317E-04	8.246E-04	7.854E-04	6.918E-04	5.727E-04	4.384E-04	3.539E-04
10	-7.41E-04	9.714E-05	6.156E-04	1.141E-03	1.362E-03	1.447E-03	1.384E-03	1.291E-03	1.111E-03	9.042E-04	6.847E-04	5.497E-04
15	2.095E-04	5.531E-03	2.916E-03	7.073E-03	3.814E-03	3.508E-03	3.120E-03	2.781E-03	2.270E-03	1.777E-03	1.308E-03	1.031E-03
20	2.866E-02	1.745E-02	1.534E-02	1.145E-02	8.077E-03	5.454E-03	4.529E-03	3.849E-03	2.961E-03	2.209E-03	1.569E-03	1.219E-03
45	7.16E-02	1.400E-02	1.907E-02	9.843E-03	-1.563E-02	-2.015E-02	-2.369E-02	-1.273E-02	-2.022E-02	-3.561E-04	-5.515E-04	-4.29E-04
60	1.826E-02	-4.024E-02	-5.774E-02	-6.985E-02	-7.370E-02	-7.321E-02	-6.938E-02	-6.491E-02	-5.653E-02	-4.671E-02	-3.586E-02	-2.899E-02
75	-1.155E-01	-1.363E-01	-1.505E-01	-1.573E-01	-1.565E-01	-1.480E-01	-1.374E-01	-1.271E-01	-1.096E-01	-8.994E-02	-6.879E-02	-5.554E-02
90	-2.266E-01	-2.422E-01	-2.521E-01	-2.548E-01	-2.507E-01	-2.359E-01	-2.193E-01	-2.035E-01	-1.762E-01	-1.453E-01	-1.116E-01	-9.025E-02
120	-3.452E-01	-3.633E-01	-3.813E-01	-3.979E-01	-4.050E-01	-4.042E-01	-3.933E-01	-3.781E-01	-3.440E-01	-2.966E-01	-2.363E-01	-1.949E-01
150	-2.419E-01	-2.639E-01	-2.911E-01	-3.271E-01	-3.608E-01	-4.001E-01	-4.309E-01	-4.522E-01	-4.740E-01	-4.746E-01	-4.390E-01	-3.929E-01
179	-8.827E-03	-9.806E-03	-1.108E-02	-1.294E-02	-1.562E-02	-1.771E-02	-2.061E-02	-2.341E-02	-2.883E-02	-3.674E-02	-4.962E-02	-6.231E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.895E-06	2.270E-06	1.865E-06	1.373E-06	9.832E-07	6.670E-07	5.046E-07	3.393E-07	2.556E-07	2.050E-07	1.469E-07	1.030E-07
2	1.174E-05	9.212E-06	7.579E-06	5.579E-06	3.904E-06	2.711E-06	2.051E-06	1.379E-06	1.039E-06	8.333E-07	5.970E-07	4.188E-07
3	2.995E-05	2.325E-05	1.911E-05	1.407E-05	1.007E-05	6.633E-06	5.169E-06	3.476E-06	2.618E-06	2.100E-06	1.504E-06	1.059E-06
4	5.666E-05	4.233E-05	3.632E-05	2.673E-05	1.911E-05	1.198E-05	9.818E-06	6.602E-06	4.573E-06	3.988E-06	2.857E-06	2.004E-06
6	1.387E-04	1.084E-04	8.496E-05	6.540E-05	4.679E-05	3.173E-05	2.400E-05	1.613E-05	1.215E-05	9.747E-06	6.942E-06	4.898E-06
8	2.547E-04	1.987E-04	1.628E-04	1.196E-04	8.592E-05	5.797E-05	4.384E-05	2.948E-05	2.270E-05	1.781E-05	1.276E-05	8.948E-06
10	9.934E-04	3.064E-04	2.509E-04	1.841E-04	1.316E-04	9.917E-05	6.743E-05	4.533E-05	3.414E-05	2.738E-05	1.962E-05	1.379E-05
15	7.366E-04	5.696E-04	4.653E-04	3.408E-04	2.492E-04	1.647E-04	1.245E-04	8.371E-05	6.304E-05	5.056E-05	3.622E-05	2.541E-05
20	4.499E-04	3.546E-04	2.730E-04	2.381E-04	1.876E-04	1.154E-04	8.750E-05	5.527E-05	4.121E-05	3.753E-05	2.553E-05	1.792E-05
30	-7.567E-03	-5.926E-03	-4.466E-03	-3.581E-03	-2.773E-03	-1.690E-03	-1.154E-03	-8.843E-04	-6.660E-04	-5.342E-04	-3.827E-04	-2.689E-04
45	-2.096E-02	-1.632E-02	-1.338E-02	-9.832E-03	-7.032E-03	-4.767E-03	-3.608E-03	-2.434E-03	-1.876E-03	-1.465E-03	-1.049E-03	-7.360E-04
60	-5.13E-02	-4.087E-02	-3.255E-02	-2.879E-02	-2.167E-02	-1.691E-02	-1.115E-02	-8.633E-03	-6.633E-03	-5.279E-03	-4.005E-03	-2.996E-03
75	-9.98E-02	-8.087E-02	-6.472E-02	-5.066E-02	-4.193E-02	-3.487E-02	-2.875E-02	-2.356E-02	-1.968E-02	-1.617E-02	-1.272E-02	-9.11E-03
90	-1.26E-01	-1.026E-01	-8.172E-01	-6.802E-02	-6.075E-02	-5.308E-02	-4.503E-02	-3.781E-02	-3.168E-02	-2.681E-02	-2.287E-02	-1.949E-02
120	-3.126E-01	-2.550E-01	-2.140E-01	-1.608E-01	-1.165E-01	-7.954E-02	-6.032E-02	-4.064E-02	-3.063E-02	-2.57E-02	-1.761E-02	-1.235E-02
150	-8.126E-01	-6.550E-01	-5.00E-01	-3.45E-01	-2.475E-01	-1.826E-01	-1.29E-01	-8.42E-02	-6.48E-02	-4.842E-02	-3.399E-02	-2.399E-02
179	-7.732E-02	-1.119E-01	-1.360E-01	-1.826E-01	-2.475E-01	-3.390E-01	-4.076E-01	-4.826E-01	-5.842E-01	-7.04E-01	-8.256E-01	-9.399E-01

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	1.64E-09	-3.78E-07	5.27E-09	-3.10E-07	-2.07E-07	-4.61E-07	1.33E-07	-4.38E-08	1.24E-06	1.59E-07	2.41E-06	1.99E-06
2	8.40E-07	1.19E-06	-7.75E-07	1.50E-06	9.19E-07	-2.69E-07	2.07E-06	3.29E-06	-5.65E-06	6.10E-06	5.13E-06	6.58E-06
3	1.91E-06	3.03E-06	1.77E-06	-3.81E-06	1.37E-06	5.27E-06	-3.45E-06	4.69E-06	9.82E-06	1.41E-05	4.75E-06	2.57E-05
4	5.95E-06	9.98E-07	1.71E-06	1.14E-05	1.50E-06	2.28E-06	1.49E-05	1.09E-05	3.05E-05	2.83E-06	2.17E-05	6.87E-05
6	1.44E-05	-1.03E-05	-2.15E-05	-1.17E-05	1.36E-05	1.06E-05	-1.81E-05	5.04E-05	-7.38E-06	-2.00E-05	1.69E-05	1.50E-04
8	4.62E-05	3.09E-05	3.25E-05	4.86E-05	1.64E-05	7.47E-05	-5.59E-05	1.27E-04	-1.05E-04	1.30E-04	2.86E-04	1.18E-04
10	7.58E-05	7.70E-05	8.48E-05	-1.43E-04	1.75E-04	1.57E-04	2.12E-04	7.55E-04	1.49E-05	4.51E-04	2.52E-04	9.28E-05
15	-2.38E-04	1.51E-04	-3.94E-04	1.88E-04	-3.54E-04	6.32E-04	-5.59E-04	1.23E-03	5.00E-04	1.49E-03	8.75E-04	7.68E-04
20	-6.92E-04	8.64E-04	1.02E-04	-3.38E-04	1.37E-04	5.46E-04	-8.48E-04	2.26E-03	4.73E-04	-1.84E-03	1.78E-03	4.08E-04
30	-5.57E-04	-2.18E-03	1.44E-03	-1.99E-03	5.07E-03	8.22E-03	5.26E-03	-2.84E-03	6.92E-03	-2.79E-03	7.35E-03	1.35E-02
45	4.13E-03	-4.93E-03	6.95E-03	1.36E-02	2.97E-02	8.74E-03	7.92E-02	5.78E-03	1.92E-02	3.33E-02	4.01E-02	3.61E-02
60	1.37E-02	-2.16E-02	1.03E-02	-2.71E-02	7.10E-02	1.08E-02	2.43E-02	5.49E-02	4.66E-02	1.59E-02	2.62E-02	2.57E-02
75	1.48E-02	3.65E-02	3.62E-02	1.06E-02	5.04E-02	7.34E-02	4.58E-02	6.81E-02	2.22E-02	-1.59E-02	-6.64E-02	-9.58E-02
90	-6.90E-02	2.02E-02	-3.62E-02	9.80E-02	8.52E-02	6.78E-02	1.45E-02	4.84E-02	-1.10E-01	-1.49E-01	-1.92E-01	-2.15E-01
120	-2.29E-01	-4.63E-01	6.15E-01	-1.54E-01	1.88E-01	2.10E-01	-2.38E-01	-2.63E-01	-1.86E-01	-3.02E-01	-3.24E-01	-3.40E-01
150	-1.17E-01	-1.25E-01	-1.11E-01	-1.41E-01	1.47E-01	-1.53E-01	-1.63E-01	-1.74E-01	-1.84E-01	-1.99E-01	-2.18E-01	-2.37E-01
179	-3.64E-03	-3.97E-03	-4.21E-03	-4.59E-03	-4.87E-03	-5.11E-03	-5.50E-03	-5.97E-03	-6.54E-03	-7.01E-03	-7.78E-03	-8.31E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E-00	1.5E-00	2.0E-00
1	2.53E-06	5.25E-06	5.46E-06	7.86E-06	8.09E-06	8.24E-06	7.82E-06	7.88E-06	6.95E-06	6.01E-06	4.86E-06	3.97E-06
2	1.28E-05	2.07E-05	2.24E-05	2.15E-05	2.52E-05	2.94E-05	3.08E-05	2.98E-05	2.90E-05	2.52E-05	2.01E-05	1.85E-05
3	4.03E-05	4.38E-05	3.45E-05	4.49E-05	5.21E-05	6.57E-05	7.50E-05	7.50E-05	7.12E-05	6.22E-05	4.94E-05	4.05E-05
4	7.58E-05	8.15E-05	5.02E-05	7.56E-05	1.04E-04	1.37E-04	1.48E-04	1.49E-04	1.39E-04	1.20E-04	9.47E-05	7.76E-05
6	9.73E-05	8.12E-05	8.12E-05	2.13E-04	3.06E-04	4.89E-04	4.04E-04	3.97E-04	3.61E-04	3.05E-04	2.38E-04	1.93E-04
8	-3.45E-06	-5.21E-06	2.17E-06	5.33E-06	7.07E-06	8.25E-06	4.25E-06	7.87E-06	6.99E-06	5.81E-06	4.45E-06	3.60E-06
10	-7.30E-05	4.62E-05	5.57E-04	1.10E-03	1.34E-03	1.42E-03	1.40E-03	1.11E-03	1.13E-03	9.25E-04	7.02E-04	5.64E-04
15	-1.83E-04	2.42E-04	2.42E-04	3.72E-03	3.87E-03	3.60E-03	3.22E-03	2.80E-03	2.37E-03	1.86E-03	1.37E-03	1.09E-03
20	2.53E-03	5.36E-03	7.11E-03	7.44E-03	6.46E-03	5.74E-03	4.79E-03	4.10E-03	3.17E-03	2.38E-03	1.67E-03	1.24E-03
30	1.66E-02	1.80E-02	1.62E-02	1.20E-02	8.40E-03	5.04E-03	3.00E-03	1.82E-03	6.41E-04	-1.74E-04	-3.04E-04	-3.78E-04
45	2.96E-02	1.72E-02	3.97E-02	-8.28E-03	-1.43E-02	-1.93E-02	-2.04E-02	-2.04E-02	-1.86E-02	-1.60E-02	-1.25E-02	-1.02E-02
60	-1.50E-02	-3.80E-02	-5.43E-02	-6.92E-02	-7.36E-02	-7.32E-02	-6.95E-02	-6.59E-02	-5.67E-02	-4.69E-02	-3.60E-02	-2.91E-02
75	-1.14E-01	-1.36E-01	-1.51E-01	-1.58E-01	-1.58E-01	-1.45E-01	-1.38E-01	-1.29E-01	-1.10E-01	-9.07E-02	-6.94E-02	-5.60E-02
90	-2.29E-01	-2.45E-01	-2.56E-01	-2.58E-01	-2.46E-01	-2.34E-01	-2.23E-01	-2.03E-01	-1.78E-01	-1.47E-01	-1.13E-01	-9.13E-02
120	-3.52E-01	-3.71E-01	-3.89E-01	-4.05E-01	-4.24E-01	-4.41E-01	-4.00E-01	-3.83E-01	-3.49E-01	-3.00E-01	-2.38E-01	-1.97E-01
150	-2.46E-01	-2.63E-01	-2.96E-01	-3.36E-01	-3.60E-01	-4.07E-01	-4.39E-01	-4.60E-01	-4.82E-01	-4.82E-01	-4.45E-01	-3.98E-01
179	-8.99E-03	-9.97E-03	-1.13E-02	-1.31E-02	-1.44E-02	-1.60E-02	-1.80E-02	-2.38E-02	-2.94E-02	-3.74E-02	-5.06E-02	-6.35E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.85E-06	2.27E-06	1.86E-06	1.37E-06	9.84E-07	6.67E-07	5.05E-07	3.37E-07	2.55E-07	2.05E-07	1.47E-07	1.03E-07
2	1.21E-05	9.69E-06	7.80E-06	5.75E-06	4.10E-06	2.79E-06	2.11E-06	1.42E-06	8.59E-07	6.10E-07	4.15E-07	2.71E-07
3	2.95E-05	2.31E-05	1.90E-05	1.40E-05	1.00E-05	6.81E-06	5.15E-06	3.62E-06	2.61E-06	2.09E-06	1.50E-06	1.05E-06
4	5.64E-05	4.25E-05	3.43E-05	2.67E-05	1.91E-05	1.29E-05	9.83E-06	6.61E-06	4.97E-06	3.99E-06	2.86E-06	2.07E-06
6	1.40E-04	1.09E-04	8.98E-05	6.60E-05	4.75E-05	3.20E-05	2.42E-05	1.69E-05	1.22E-05	9.84E-06	7.05E-06	5.12E-06
8	2.59E-04	2.04E-04	1.65E-04	1.21E-04	8.17E-05	5.90E-05	4.46E-05	3.05E-05	2.26E-05	1.81E-05	1.30E-05	9.12E-06
10	4.04E-04	3.15E-04	2.57E-04	1.89E-04	1.35E-04	9.17E-05	6.93E-05	4.66E-05	3.51E-05	2.81E-05	2.01E-05	1.41E-05
15	7.72E-04	5.99E-04	4.89E-04	3.58E-04	2.56E-04	1.73E-04	1.31E-04	8.84E-05	6.38E-05	5.32E-05	3.84E-05	2.75E-05
20	1.20E-03	9.25E-04	7.41E-04	5.41E-04	3.92E-04	2.64E-04	1.94E-04	1.04E-04	7.83E-05	6.28E-05	4.49E-05	3.15E-05
30	-2.46E-03	-1.89E-03	-1.40E-03	-1.06E-03	-7.35E-04	-4.84E-04	-3.26E-04	-2.03E-04	-1.26E-04	-8.01E-05	-5.17E-05	-3.16E-05
45	-7.46E-03	-5.49E-03	-4.40E-03	-3.35E-03	-2.30E-03	-1.71E-03	-1.29E-03	-8.73E-04	-5.32E-04	-3.26E-04	-2.07E-04	-1.31E-04
60	-2.09E-02	-1.54E-02	-1.13E-02	-8.77E-03	-6.46E-03	-4.78E-03	-3.62E-03	-2.40E-03	-1.83E-03	-1.47E-03	-1.05E-03	-7.39E-04
75	-6.03E-02	-4.52E-02	-3.48E-02	-2.58E-02	-1.95E-02	-1.40E-02	-9.95E-03	-6.79E-03	-4.52E-03	-3.24E-03	-2.05E-03	-1.42E-03
90	-1.44E-01	-1.13E-01	-8.72E-02	-6.89E-02	-5.10E-02	-3.85E-02	-2.71E-02	-1.86E-02	-1.26E-02	-8.73E-03	-5.76E-03	-3.72E-03
120	-3.17E-01	-2.58E-01	-2.16E-01	-1.62E-01	-1.19E-01	-8.05E-02	-5.11E-02	-3.35E-02	-2.17E-02	-1.40E-02	-9.13E-03	-5.71E-03
150	-8.90E-01	-7.48E-01	-6.29E-01	-5.18E-01	-4.19E-01	-3.35E-01	-2.68E-01	-2.17E-01	-1.78E-01	-1.49E-01	-1.25E-01	-1.02E-01
179	-8.90E-02	-1.41E-01	-1.18E-01	-1.86E-01	-2.52E-01	-3.45E-01	-4.15E-01	-4.90E-01	-5.06E-01	-4.91E-01	-4.31E-01	-3.47E-01

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	-2.895E-08	-1.791E-07	2.274E-07	-2.101E-07	2.304E-07	-1.785E-07	2.422E-07	3.745E-08	1.228E-06	8.091E-07	2.422E-06	2.515E-06
2	4.540E-07	1.315E-06	-8.110E-06	3.515E-06	2.314E-07	1.335E-07	-2.111E-06	2.191E-06	3.528E-07	6.130E-06	5.171E-06	4.974E-06
3	2.654E-06	2.636E-06	3.336E-06	3.336E-06	5.777E-07	2.984E-06	4.112E-06	6.808E-06	3.728E-07	1.576E-05	3.414E-06	2.111E-05
4	3.452E-06	4.856E-06	-3.353E-06	1.036E-05	-3.409E-06	7.823E-06	1.239E-05	-9.486E-06	3.097E-05	6.616E-06	6.795E-05	6.494E-05
6	2.073E-05	-2.071E-05	2.679E-05	-2.297E-05	8.604E-07	-7.123E-06	-4.299E-06	3.966E-06	4.580E-06	-3.143E-05	1.415E-04	1.616E-04
8	2.919E-05	-1.673E-06	5.673E-05	7.171E-05	-2.686E-05	9.617E-05	-7.112E-05	1.473E-04	-1.166E-04	9.999E-05	3.054E-04	1.488E-04
10	-9.238E-05	2.542E-06	-1.171E-04	-1.688E-04	1.917E-04	-1.291E-04	1.785E-04	-2.557E-04	4.173E-05	4.345E-04	3.078E-04	-5.938E-05
15	-1.195E-04	-1.084E-06	-3.252E-04	3.322E-04	4.544E-04	8.052E-04	-2.263E-04	-3.380E-04	1.270E-03	6.650E-04	8.405E-04	8.678E-04
20	-7.375E-04	-7.883E-03	1.049E-03	-8.148E-03	1.477E-03	-2.447E-03	1.131E-03	-2.189E-03	8.109E-04	-1.689E-03	-2.031E-03	4.195E-05
30	-1.345E-03	-2.053E-03	1.049E-03	-1.260E-03	3.403E-03	-2.071E-03	5.820E-03	-2.101E-03	7.299E-03	-3.699E-03	6.539E-03	1.322E-02
45	2.365E-03	-3.195E-03	-8.527E-03	1.364E-02	7.164E-03	-7.084E-03	-1.860E-02	8.015E-03	1.756E-02	3.289E-02	4.153E-02	3.832E-02
60	1.582E-02	2.121E-02	1.370E-02	-2.631E-02	-2.942E-02	-1.451E-02	2.114E-02	5.438E-02	6.730E-02	5.884E-02	3.082E-02	6.669E-02
75	1.932E-02	-3.524E-02	3.949E-02	5.792E-02	4.740E-02	7.284E-02	9.094E-02	7.414E-02	2.872E-02	-1.051E-02	6.284E-02	-9.387E-02
90	-4.107E-02	1.508E-02	6.083E-02	9.846E-02	9.509E-02	7.528E-02	-2.571E-02	-3.894E-02	-1.076E-01	-1.484E-01	1.935E-01	-2.178E-01
120	-2.903E-02	-4.108E-02	-9.238E-02	-1.551E-01	-1.504E-01	-2.139E-01	2.417E-01	-2.684E-01	-2.929E-01	-3.033E-01	-3.319E-01	-2.747E-01
150	-1.199E-01	-1.287E-01	-1.350E-01	-1.443E-01	-1.514E-01	-1.572E-01	-1.667E-01	-1.779E-01	-1.924E-01	-2.041E-01	-2.230E-01	-2.389E-01
179	-3.724E-03	-4.055E-03	-4.301E-03	-4.688E-03	-4.941E-03	-5.222E-03	-5.615E-03	-6.076E-03	-6.672E-03	-7.154E-03	-7.939E-03	-8.594E-03
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	2.192E-06	3.801E-06	5.429E-06	7.970E-06	8.194E-06	8.301E-05	7.935E-06	7.338E-06	7.195E-06	5.998E-06	4.757E-06	3.980E-06
2	1.224E-05	2.050E-05	2.294E-05	2.180E-05	2.674E-05	2.907E-05	2.940E-05	2.958E-05	2.878E-05	2.507E-05	1.992E-05	1.644E-05
3	7.754E-05	4.577E-05	3.993E-05	4.381E-05	5.374E-05	6.815E-05	7.382E-05	7.452E-05	7.062E-05	6.166E-05	4.909E-05	4.030E-05
6	1.095E-04	4.236E-05	5.147E-05	7.255E-05	1.003E-04	1.339E-04	1.456E-04	1.467E-04	1.378E-04	1.195E-04	9.442E-05	7.734E-05
8	1.310E-04	6.434E-05	7.250E-05	1.092E-04	1.593E-04	3.808E-04	4.004E-04	3.945E-04	3.608E-04	3.066E-04	2.393E-04	1.947E-04
10	1.872E-04	-1.800E-05	1.810E-04	5.029E-04	6.934E-04	8.170E-04	8.244E-04	7.928E-04	7.054E-04	5.882E-04	4.529E-04	3.659E-04
15	-2.354E-04	-2.122E-04	4.963E-04	1.060E-03	1.321E-03	1.443E-03	1.413E-03	1.329E-03	1.154E-03	9.457E-04	7.193E-04	5.786E-04
20	2.192E-03	5.176E-03	7.121E-03	3.715E-03	3.772E-03	3.702E-03	3.332E-03	2.996E-03	2.468E-03	1.843E-03	1.438E-03	1.143E-03
30	1.667E-02	1.856E-02	1.703E-02	1.302E-02	9.405E-03	6.028E-03	5.074E-03	4.361E-03	3.400E-03	2.564E-03	1.833E-03	1.433E-03
45	3.215E-02	1.975E-02	6.156E-02	-6.620E-02	-6.484E-02	-1.838E-02	-1.973E-02	-1.967E-02	-1.824E-02	-1.569E-02	-1.237E-02	-1.011E-02
60	-1.134E-02	-3.555E-02	-5.484E-02	-6.847E-02	-7.305E-02	-7.319E-02	-6.960E-02	-6.523E-02	-5.690E-02	-4.706E-02	-3.615E-02	-2.923E-02
75	-1.377E-01	-1.367E-01	-1.524E-01	-1.602E-01	-1.597E-01	-1.511E-01	-1.403E-01	-1.298E-01	-1.118E-01	-9.177E-02	-7.016E-02	-5.663E-02
90	-2.327E-01	-2.449E-01	-2.601E-01	-2.629E-01	-2.598E-01	-2.429E-01	-2.256E-01	-2.091E-01	-1.809E-01	-1.490E-01	-1.144E-01	-9.244E-02
120	-3.603E-01	-3.747E-01	-3.969E-01	-4.135E-01	-4.203E-01	-4.187E-01	-4.068E-01	-3.905E-01	-3.548E-01	-3.053E-01	-2.429E-01	-1.999E-01
150	-2.519E-01	-2.747E-01	-3.026E-01	-3.401E-01	-3.701E-01	-4.154E-01	-4.471E-01	-4.548E-01	-4.907E-01	-4.905E-01	-4.527E-01	-4.045E-01
179	-9.172E-03	-1.019E-02	-1.151E-02	-1.344E-02	-1.570E-02	-1.841E-02	-2.143E-02	-2.435E-02	-2.999E-02	-3.821E-02	-5.162E-02	-6.482E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.771E-06	2.274E-06	1.905E-06	1.352E-06	9.684E-07	6.571E-07	4.972E-07	3.343E-07	2.518E-07	2.020E-07	1.447E-07	1.015E-07
2	1.201E-05	9.432E-06	7.767E-06	5.513E-06	3.749E-06	2.680E-06	2.027E-06	1.763E-06	1.027E-06	8.237E-07	5.901E-07	4.140E-07
3	2.942E-05	2.508E-05	1.849E-05	1.397E-05	1.011E-05	6.790E-06	5.137E-06	4.763E-06	2.602E-06	2.087E-06	1.495E-06	1.049E-06
4	5.642E-05	4.421E-05	3.634E-05	2.674E-05	1.914E-05	1.299E-05	9.825E-06	6.607E-06	4.976E-06	3.901E-06	2.859E-06	2.066E-06
6	1.411E-04	1.103E-04	9.053E-05	6.658E-05	4.764E-05	3.231E-05	2.444E-05	1.643E-05	1.238E-05	9.26E-06	7.113E-06	4.989E-06
8	2.637E-04	2.059E-04	1.689E-04	1.240E-04	8.870E-05	6.013E-05	4.544E-05	3.058E-05	2.309E-05	1.847E-05	1.323E-05	9.289E-06
10	4.152E-04	3.246E-04	2.450E-04	1.946E-04	1.391E-04	9.425E-05	7.128E-05	4.792E-05	3.609E-05	2.895E-05	2.074E-05	1.455E-05
15	8.111E-04	6.293E-04	5.143E-04	3.764E-04	2.690E-04	1.822E-04	1.378E-04	9.260E-05	6.974E-05	5.693E-05	4.007E-05	2.811E-05
20	1.004E-03	7.744E-04	6.310E-04	4.610E-04	3.247E-04	2.244E-04	1.681E-04	1.130E-04	8.507E-05	6.823E-05	4.897E-05	3.429E-05
30	1.653E-03	1.560E-03	-1.312E-03	-1.021E-03	-7.530E-04	-5.193E-04	-3.952E-04	-2.013E-04	-2.013E-05	-1.616E-05	-1.158E-05	-8.129E-06
45	-7.952E-03	-5.773E-03	-4.737E-03	-3.483E-03	-2.493E-03	-1.691E-03	-1.279E-03	-8.602E-04	-6.440E-04	-5.197E-04	-3.723E-04	-2.612E-04
60	-2.108E-02	-1.644E-02	-1.347E-02	-9.917E-03	-7.092E-03	-4.809E-03	-3.637E-03	-2.445E-03	-1.842E-03	-1.477E-03	-1.058E-03	-7.424E-04
75	-4.077E-02	-3.142E-02	-2.406E-02	-1.916E-02	-1.370E-02	-8.289E-03	-7.026E-03	-4.723E-03	-3.558E-03	-2.853E-03	-2.044E-03	-1.434E-03
90	-6.676E-02	-5.209E-02	-2.711E-02	-3.139E-02	-2.245E-02	-1.522E-02	-1.151E-02	-7.741E-03	-5.830E-03	-4.676E-03	-3.350E-03	-2.350E-03
120	-1.644E-01	-1.151E-01	-9.446E-02	-6.980E-02	-5.000E-02	-3.395E-02	-2.559E-02	-1.727E-02	-1.301E-02	-1.044E-02	-7.477E-03	-5.245E-03
150	-3.262E-01	-2.620E-01	-2.198E-01	-1.651E-01	-1.194E-01	-8.164E-02	-6.191E-02	-4.170E-02	-3.143E-02	-2.522E-02	-1.807E-02	-1.268E-02
179	-9.083E-02	-1.164E-01	-1.415E-01	-1.899E-01	-2.572E-01	-3.520E-01	-4.228E-01	-4.993E-01	-5.151E-01	-4.995E-01	-4.382E-01	-3.499E-01

AU (79)		SHERMAN FUNCTION: DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)	
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
DEG													
1	-1.049E-07	-1.168E-07	2.080E-07	1.603E-07	-4.441E-07	-5.721E-09	-1.312E-07	7.385E-07	5.829E-07	8.928E-07	1.400E-06	1.990E-06	
2	-2.759E-07	9.374E-07	1.140E-06	-5.736E-07	-7.307E-07	9.653E-07	3.280E-06	1.938E-06	1.558E-06	5.572E-06	5.558E-06	4.543E-06	
3	2.296E-06	1.637E-06	4.126E-06	-2.231E-06	2.336E-06	9.422E-07	-4.706E-06	8.961E-06	4.427E-06	1.752E-05	2.924E-05	2.036E-05	
4	-1.424E-06	-7.035E-06	-7.056E-06	7.493E-06	-7.407E-06	1.150E-05	8.388E-06	-7.732E-06	3.089E-05	1.185E-05	1.194E-05	6.234E-05	
6	1.777E-07	-2.443E-05	-2.430E-05	-3.051E-05	1.370E-05	-1.814E-05	8.123E-06	2.521E-05	1.840E-05	-3.781E-05	1.339E-04	1.712E-04	
8	-1.509E-07	2.835E-05	7.001E-05	8.561E-05	-5.559E-05	1.109E-04	-9.110E-05	1.616E-04	-1.210E-04	6.688E-05	3.205E-04	1.794E-04	
10	-7.620E-05	-2.621E-05	-1.287E-04	-1.295E-04	1.306E-04	-8.751E-05	1.330E-04	2.968E-05	-9.693E-05	4.089E-04	3.632E-04	-1.977E-05	
15	-2.711E-04	-1.588E-04	-2.063E-04	4.557E-04	-5.439E-04	5.110E-04	-7.550E-05	-4.838E-04	1.277E-03	8.227E-04	-7.826E-04	-9.533E-04	
20	-6.752E-04	-6.032E-04	9.653E-04	-1.045E-03	1.305E-03	8.417E-05	-1.383E-03	2.063E-03	1.155E-03	-1.495E-03	-2.257E-03	-3.276E-04	
30	-2.002E-03	-1.393E-03	2.551E-04	-4.252E-04	-4.151E-03	1.235E-03	6.279E-03	-1.283E-03	-7.590E-03	-4.583E-03	5.655E-03	1.275E-02	
45	3.757E-04	-1.227E-03	-9.866E-03	1.327E-02	9.270E-03	-5.220E-03	-1.907E-02	-1.024E-02	1.566E-02	3.222E-02	4.278E-02	4.053E-02	
60	-1.750E-02	2.010E-02	1.697E-02	-2.498E-02	-3.157E-02	-1.817E-02	1.770E-02	5.344E-02	6.979E-02	6.297E-02	3.559E-02	1.099E-02	
75	2.357E-02	-3.347E-02	-4.237E-02	7.477E-04	4.398E-02	7.176E-02	9.200E-02	8.014E-02	3.548E-02	-4.654E-03	-5.908E-02	-9.161E-02	
90	-4.498E-02	9.600E-03	5.758E-02	1.005E-01	1.007E-01	8.273E-02	3.325E-02	-3.254E-02	-1.043E-01	-1.471E-01	-1.947E-01	-2.201E-01	
120	3.600E-02	-3.541E-02	-8.897E-02	-1.552E-01	-1.379E-01	-2.173E-01	-2.477E-01	-2.739E-01	-2.995E-01	-3.162E-01	-3.392E-01	-3.554E-01	
150	-1.228E-01	-1.318E-01	-1.383E-01	-1.477E-01	-1.349E-01	-1.608E-01	-1.704E-01	-1.818E-01	-1.965E-01	-2.084E-01	-2.276E-01	-2.433E-01	
179	-3.804E-03	-4.141E-03	-4.397E-03	-4.785E-03	-5.083E-03	-5.329E-03	-5.728E-03	-6.197E-03	-6.803E-03	-7.293E-03	-8.092E-03	-8.758E-03	
		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
DEG													
1	2.191E-06	5.084E-06	7.012E-06	8.075E-06	8.308E-06	8.368E-06	7.513E-06	7.720E-06	7.205E-06	5.987E-06	4.749E-06	3.895E-06	
2	1.028E-05	2.007E-05	2.343E-05	2.397E-05	2.386E-05	2.676E-05	3.177E-05	2.918E-05	2.848E-05	2.522E-05	1.976E-05	1.625E-05	
3	3.880E-05	4.738E-05	4.214E-05	4.362E-05	5.260E-05	6.850E-05	7.218E-05	7.320E-05	6.968E-05	6.102E-05	4.870E-05	4.002E-05	
4	8.011E-05	6.676E-05	5.303E-05	7.022E-05	9.657E-05	1.281E-04	1.423E-04	1.442E-04	1.362E-04	1.185E-04	9.397E-05	7.699E-05	
6	1.249E-04	4.402E-05	6.503E-05	1.848E-04	2.807E-04	3.715E-04	7.945E-04	3.907E-04	3.597E-04	3.069E-04	2.401E-04	1.954E-04	
8	3.193E-05	-2.762E-05	1.501E-04	4.704E-04	6.395E-04	8.057E-04	8.211E-04	7.937E-04	7.102E-04	5.942E-04	4.588E-04	3.714E-04	
10	-1.845E-04	-4.739E-05	4.350E-04	1.014E-03	1.294E-03	1.451E-03	1.422E-03	1.344E-03	1.173E-03	9.644E-04	7.353E-04	5.921E-04	
15	-3.933E-04	1.060E-03	2.606E-03	3.696E-03	3.479E-03	3.436E-03	3.100E-03	2.565E-03	2.028E-03	1.503E-03	1.196E-03	9.196E-04	
20	1.829E-03	4.953E-03	7.103E-03	7.805E-03	7.449E-03	6.312E-03	5.352E-03	4.622E-03	3.625E-03	2.748E-03	1.972E-03	1.545E-03	
30	1.661E-02	1.905E-02	1.789E-02	1.398E-02	1.073E-02	6.621E-03	4.352E-03	3.006E-03	1.588E-03	7.155E-04	3.312E-04	7.584E-05	
45	3.470E-02	2.237E-02	8.453E-03	-4.847E-03	-1.167E-02	-1.738E-02	-1.896E-02	-1.903E-02	-1.778E-02	-1.535E-02	-1.213E-02	-9.923E-03	
60	-7.826E-03	-3.286E-02	-5.312E-02	-6.758E-02	-7.257E-02	-7.307E-02	-6.962E-02	-6.530E-02	-5.702E-02	-4.718E-02	-3.626E-02	-2.932E-02	
75	-1.125E-01	-1.366E-01	-1.532E-01	-1.615E-01	-1.011E-01	-1.526E-01	-1.417E-01	-1.311E-01	-1.129E-01	-9.265E-02	-7.082E-02	-5.716E-02	
90	-2.357E-01	-2.531E-01	-2.640E-01	-2.668E-01	-2.073E-01	-2.463E-01	-2.287E-01	-2.119E-01	-1.832E-01	-1.509E-01	-1.157E-01	-9.356E-02	
120	-3.686E-01	-3.866E-01	-4.047E-01	-4.214E-01	-4.261E-01	-4.135E-01	-3.968E-01	-3.601E-01	-3.097E-01	-2.462E-01	-2.025E-01	-1.625E-01	
150	-2.569E-01	-2.801E-01	-3.081E-01	-3.467E-01	-3.771E-01	-4.232E-01	-4.553E-01	-4.772E-01	-4.991E-01	-4.984E-01	-4.595E-01	-4.104E-01	
179	-9.346E-03	-1.038E-02	-1.173E-02	-1.370E-02	-1.544E-02	-1.876E-02	-2.184E-02	-2.482E-02	-3.057E-02	-3.896E-02	-5.262E-02	-6.608E-02	
		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
DEG													
1	2.902E-06	2.275E-06	1.785E-06	1.359E-06	9.511E-07	6.602E-07	4.995E-07	3.359E-07	2.530E-07	2.027E-07	1.454E-07	1.020E-07	
2	1.201E-05	9.427E-06	7.441E-06	5.630E-06	4.033E-06	2.736E-06	2.070E-06	1.392E-06	1.049E-06	8.411E-07	6.026E-07	4.227E-07	
3	2.924E-05	2.295E-05	1.287E-05	1.390E-05	7.253E-06	2.957E-06	5.109E-06	3.436E-06	2.588E-06	2.076E-06	1.487E-06	1.043E-06	
4	5.515E-05	4.404E-05	3.618E-05	2.668E-05	1.910E-05	1.296E-05	9.803E-06	6.592E-06	4.965E-06	3.983E-06	2.853E-06	2.022E-06	
6	1.411E-04	1.110E-04	9.109E-05	6.700E-05	4.795E-05	3.252E-05	2.460E-05	1.654E-05	1.246E-05	9.991E-06	7.158E-06	5.021E-06	
8	2.677E-04	2.091E-04	1.714E-04	1.260E-04	9.009E-05	6.108E-05	4.620E-05	3.106E-05	2.340E-05	1.876E-05	1.344E-05	9.430E-06	
10	4.252E-04	3.315E-04	2.715E-04	1.994E-04	1.475E-04	9.660E-05	7.306E-05	4.912E-05	3.699E-05	2.967E-05	2.125E-05	1.491E-05	
15	8.496E-04	6.594E-04	5.390E-04	3.950E-04	2.870E-04	1.910E-04	1.444E-04	9.708E-05	7.312E-05	5.864E-05	4.201E-05	2.947E-05	
20	1.084E-03	8.367E-04	6.421E-04	4.985E-04	3.354E-04	2.406E-04	1.818E-04	1.222E-04	9.202E-05	7.380E-05	5.286E-05	3.708E-05	
30	-1.245E-03	-3.077E-05	-3.387E-05	-3.081E-05	-2.447E-05	-1.748E-05	-1.347E-05	-9.180E-06	-6.948E-06	-5.585E-06	-4.009E-06	-2.815E-06	
45	-7.724E-03	-5.662E-03	-4.451E-03	-3.424E-03	-2.451E-03	-1.663E-03	-1.258E-03	-8.459E-04	-6.372E-04	-5.110E-04	-3.661E-04	-2.568E-04	
60	-2.115E-02	-1.651E-02	-1.215E-02	-9.950E-03	-7.114E-03	-4.825E-03	-3.649E-03	-2.453E-03	-1.848E-03	-1.482E-03	-1.062E-03	-7.448E-04	
75	-4.115E-02	-3.211E-02	-2.432E-02	-1.934E-02	-1.383E-02	-9.374E-03	-7.090E-03	-4.767E-03	-3.590E-03	-2.880E-03	-2.063E-03	-1.447E-03	
90	-6.747E-02	-5.269E-02	-4.320E-02	-3.175E-02	-2.277E-02	-1.539E-02	-1.164E-02	-7.829E-03	-5.897E-03	-4.729E-03	-3.388E-03	-2.377E-03	
120	-1.483E-01	-1.166E-01	-9.849E-02	-7.069E-02	-5.065E-02	-3.473E-02	-2.601E-02	-1.749E-02	-1.318E-02	-1.057E-02	-7.571E-03	-5.311E-03	
150	-3.258E-01	-2.655E-01	-2.227E-01	-1.72E-01	-1.211E-01	-8.268E-02	-6.270E-02	-4.223E-02	-3.183E-02	-2.554E-02	-1.830E-02	-1.284E-02	
179	-9.268E-02	-1.187E-01	-1.442E-01	-1.936E-01	-2.021E-01	-3.586E-01	-4.309E-01	-5.078E-01	-5.233E-01	-5.071E-01	-4.444E-01	-3.542E-01	

MG	(RO)	SHEMMA FUNCTION: DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)			
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02		
DEG															
1	-1.777E-07	2.902E-08	-3.611E-07	-2.965E-07	-4.088E-07	-1.837E-07	8.090E-07	1.396E-07	7.030E-07	1.934E-06	1.290E-06	2.540E-06			
2	7.238E-07	-2.551E-07	1.547E-06	-1.167E-06	-1.248E-06	1.810E-06	7.305E-06	1.333E-06	1.114E-06	4.349E-06	6.451E-06	4.962E-06			
3	2.149E-07	-6.819E-07	3.044E-06	-2.088E-07	4.748E-06	-1.077E-06	-7.570E-06	1.037E-05	2.555E-06	1.867E-05	7.855E-06	1.790E-05			
4	-5.222E-04	-5.870E-06	-8.611E-06	2.695E-06	-9.500E-06	1.386E-05	7.445E-06	-4.016E-06	2.932E-05	1.648E-05	7.381E-06	9.903E-05			
6	5.535E-06	-1.527E-05	-1.500E-05	-3.255E-05	2.766E-05	-2.766E-05	2.267E-05	1.017E-05	3.326E-05	-4.330E-05	1.248E-04	1.792E-04			
8	-3.057E-05	5.274E-05	6.901E-05	4.790E-05	-7.749E-05	1.162E-04	-1.039E-04	1.700E-04	-1.188E-04	3.624E-05	3.315E-04	2.115E-04			
10	-3.163E-05	-7.779E-05	-1.151E-04	-4.317E-05	-1.712E-04	-3.567E-05	7.462E-05	8.793E-05	-1.481E-04	3.746E-04	4.174E-04	2.561E-05			
15	-3.258E-04	-2.941E-04	-5.439E-05	5.471E-04	-5.745E-04	3.852E-04	4.920E-05	-6.167E-04	1.258E-04	9.797E-04	-7.072E-04	-1.024E-03			
20	-4.791E-04	-3.268E-04	7.857E-04	-1.208E-03	1.454E-03	4.282E-04	-1.592E-03	1.885E-03	1.699E-03	-1.264E-03	-2.445E-03	-6.966E-04			
30	-2.445E-01	-5.847E-04	-6.365E-04	4.701E-04	-6.458E-03	3.339E-04	4.622E-03	-3.946E-04	-7.787E-03	-5.440E-03	4.709E-03	1.220E-02			
45	-1.716E-01	8.925E-04	-1.091E-02	1.255E-02	1.119E-02	-3.177E-03	-1.929E-02	-1.243E-02	1.359E-02	3.133E-02	4.389E-02	4.267E-02			
50	-1.861E-02	1.843E-02	2.004E-02	-2.321E-02	-3.347E-02	-2.177E-02	1.403E-02	5.214E-02	7.206E-02	6.706E-02	4.052E-02	1.554E-02			
75	2.749E-02	-3.104E-02	-6.498E-02	-4.470E-03	4.014E-02	7.020E-02	4.258E-02	4.809E-02	4.251E-02	1.573E-03	-5.447E-02	-8.904E-02			
90	-4.856E-02	4.053E-03	5.788E-02	1.020E-01	1.041E-01	9.819E-02	4.167E-02	-2.354E-02	-1.005E-01	-1.456E-01	-1.955E-01	-2.222E-01			
120	4.315E-02	-2.929E-02	-8.513E-02	-1.549E-01	-1.740E-01	-2.925E-01	-2.799E-01	-3.052E-01	-3.052E-01	-3.233E-01	-3.466E-01	-3.630E-01			
150	-1.258E-01	-1.350E-01	-1.416E-01	-1.512E-01	-1.585E-01	-1.645E-01	-1.743E-01	-1.850E-01	-2.007E-01	-2.128E-01	-2.322E-01	-2.482E-01			
179	-3.885E-03	-4.228E-03	-4.607E-03	-4.984E-03	-5.367E-03	-5.743E-03	-6.120E-03	-6.500E-03	-6.935E-03	-7.433E-03	-7.945E-03	-8.523E-03			
DFG		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00		
1	3.777E-05	3.237E-06	6.994E-06	6.764E-06	7.274E-06	7.545E-06	4.254E-06	7.488E-06	7.219E-06	5.476E-06	4.771E-06	3.839E-06			
2	1.004E-05	2.005E-05	2.400E-05	2.451E-05	2.456E-05	2.856E-05	2.981E-05	2.879E-05	2.447E-05	2.447E-05	1.972E-05	1.619E-05			
3	3.752E-05	4.883E-05	4.793E-05	4.399E-05	5.154E-05	6.647E-05	7.064E-05	7.178E-05	6.855E-05	6.031E-05	4.824E-05	3.968E-05			
4	7.943E-05	7.130E-05	5.411E-05	6.774E-05	9.424E-05	1.257E-04	1.389E-04	1.415E-04	1.344E-04	1.174E-04	9.343E-05	7.667E-05			
6	1.394E-04	5.538E-05	9.884E-05	1.705E-04	2.068E-04	3.812E-04	7.877E-04	3.853E-04	3.577E-04	3.265E-04	2.409E-04	1.961E-04			
8	5.725E-05	-7.222E-05	1.227E-04	4.386E-04	6.377E-04	7.928E-04	8.150E-04	7.928E-04	7.134E-04	5.992E-04	4.638E-04	3.754E-04			
10	-1.748E-04	-8.818E-05	3.715E-04	9.831E-04	1.445E-03	1.628E-03	1.356E-03	1.356E-03	1.190E-03	9.816E-04	7.501E-04	6.047E-04			
15	-5.449E-04	8.755E-04	2.472E-03	3.663E-03	3.877E-03	3.871E-03	5.534E-03	3.200E-03	2.661E-03	2.110E-03	1.568E-03	1.244E-03			
20	1.449E-01	4.706E-03	7.050E-03	7.955E-03	7.603E-03	6.894E-03	4.330E-03	4.885E-03	3.854E-03	2.915E-03	2.114E-03	1.660E-03			
30	1.647E-02	1.947E-02	1.870E-02	1.695E-02	1.148E-02	7.452E-03	5.072E-03	3.638E-03	2.697E-03	1.811E-03	5.208E-04	3.050E-04			
45	3.727E-02	2.587E-02	1.080E-02	-2.962E-02	-1.015E-02	-1.630E-02	-1.811E-02	-1.834E-02	-1.726E-02	-1.697E-02	-1.186E-02	-7.718E-03			
60	-3.869E-01	-2.944E-02	-5.122E-02	-5.656E-02	-7.197E-02	-7.286E-02	-6.956E-02	-5.532E-02	-5.710E-02	-4.727E-02	-3.634E-02	-2.939E-02			
75	-1.118E-01	-1.364E-01	-1.530E-01	-1.627E-01	-1.625E-01	-1.540E-01	-1.430E-01	-1.323E-01	-1.140E-01	-9.350E-02	-7.146E-02	-5.767E-02			
90	-2.385E-01	-2.566E-01	-2.674E-01	-2.708E-01	-2.681E-01	-2.498E-01	-2.317E-01	-2.146E-01	-1.854E-01	-1.527E-01	-1.171E-01	-9.461E-02			
120	-3.757E-01	-3.945E-01	-4.127E-01	-4.294E-01	-4.359E-01	-4.332E-01	-4.203E-01	-4.030E-01	-3.654E-01	-3.140E-01	-2.445E-01	-2.051E-01			
150	-2.620E-01	-2.856E-01	-3.147E-01	-3.533E-01	-3.842E-01	-4.110E-01	-4.330E-01	-4.485E-01	-5.075E-01	-5.063E-01	-4.663E-01	-4.162E-01			
179	-9.521E-03	-1.058E-02	-1.195E-02	-1.395E-02	-1.577E-02	-1.742E-02	-2.226E-02	-2.529E-02	-3.115E-02	-3.707E-02	-4.363E-02	-5.023E-02			
DEG		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02		
1	2.939E-06	2.277E-06	1.871E-06	1.378E-06	9.867E-07	6.891E-07	4.062E-07	3.404E-07	2.564E-07	2.057E-07	1.473E-07	1.034E-07			
2	1.185E-05	9.368E-06	7.650E-06	5.637E-06	4.078E-06	2.746E-06	2.071E-06	1.394E-06	1.050E-06	8.423E-07	6.038E-07	4.233E-07			
3	2.901E-05	2.778E-05	1.813E-05	1.380E-05	9.088E-06	6.707E-06	5.075E-06	3.643E-06	2.571E-06	2.062E-06	1.477E-06	1.030E-06			
4	5.587E-05	4.382E-05	3.590E-05	2.652E-05	1.908E-05	1.249E-05	9.752E-06	6.945E-06	4.960E-06	3.822E-06	2.838E-06	1.901E-06			
6	1.423E-04	1.114E-04	9.148E-05	6.732E-05	4.881E-05	3.267E-05	2.472E-05	1.662E-05	1.252E-05	1.004E-05	7.193E-06	5.063E-06			
8	2.715E-04	2.121E-04	1.737E-04	1.277E-04	9.176E-05	6.193E-05	4.683E-05	3.150E-05	2.372E-05	1.903E-05	1.363E-05	9.582E-06			
10	4.347E-04	3.398E-04	2.777E-04	2.039E-04	1.458E-04	9.883E-05	7.474E-05	5.023E-05	3.789E-05	3.035E-05	2.174E-05	1.523E-05			
15	8.888E-04	6.803E-04	5.433E-04	4.131E-04	2.958E-04	1.998E-04	1.511E-04	1.016E-04	7.650E-05	6.135E-05	4.399E-05	3.093E-05			
20	1.166E-03	9.006E-04	7.144E-04	5.369E-04	3.929E-04	2.592E-04	1.954E-04	1.377E-04	9.915E-05	7.453E-05	5.608E-05	3.908E-05			
30	1.498E-04	9.494E-05	6.820E-05	4.438E-05	2.929E-05	1.886E-05	1.031E-05	5.288E-06	6.860E-06	5.549E-06	3.982E-06	2.799E-06			
45	-7.081E-03	-5.553E-03	-4.562E-03	-3.359E-03	-2.405E-03	-1.631E-03	-1.254E-03	-8.300E-04	-6.252E-04	-5.014E-04	-3.542E-04	-2.529E-04			
60	-2.128E-02	-1.656E-02	-1.157E-02	-9.978E-03	-7.138E-03	-4.888E-03	-3.659E-03	-2.460E-03	-1.853E-03	-1.446E-03	-1.085E-03	-7.459E-04			
75	-4.152E-02	-2.404E-02	-2.452E-02	-1.951E-02	-1.394E-02	-9.457E-03	-7.153E-03	-4.809E-03	-3.622E-03	-2.405E-03	-2.081E-03	-1.460E-03			
90	-6.822E-02	-5.328E-02	-4.388E-02	-3.210E-02	-2.244E-02	-1.557E-02	-1.173E-02	-7.916E-03	-5.982E-03	-4.782E-03	-3.428E-03	-2.403E-03			
120	-1.502E-01	-1.180E-01	-9.798E-02	-7.156E-02	-5.127E-02	-3.488E-02	-2.633E-02	-1.771E-02	-1.334E-02	-1.070E-02	-7.664E-03	-5.737E-03			
150	-3.302E-01	-2.648E-01	-2.255E-01	-1.691E-01	-1.242E-01	-8.371E-02	-4.348E-02	-2.470E-02	-3.223E-02	-2.598E-02	-1.833E-02	-1.309E-02			
179	-9.437E-02	-1.209E-01	-1.477E-01	-1.972E-01	-2.678E-01	-3.653E-01	-4.381E-01	-5.162E-01	-5.315E-01	-5.147E-01	-4.507E-01	-3.584E-01			

DEG	1.0E+03	1.5E+03	2.0E+03	3.0E+03	4.0E+03	5.0E+03	7.0E+03	1.0E+04	1.5E+04	2.0E+04	3.0E+04	4.0E+04
1	2.364E-04	6.340E-05	4.021E-04	5.891E-04	6.634E-04	5.702E-04	2.972E-04	1.441E-04	1.004E-05	4.091E-07	1.794E-05	2.650E-05
2	4.894E-07	4.031E-07	1.319E-06	1.374E-06	1.404E-06	2.260E-06	2.718E-06	3.339E-06	1.339E-06	3.400E-06	2.700E-06	5.250E-06
3	1.702E-06	2.582E-06	1.210E-06	1.014E-06	5.354E-06	3.500E-06	2.747E-06	1.093E-06	1.273E-06	1.999E-06	4.340E-06	1.654E-06
4	6.273E-06	1.590E-05	6.702E-06	1.498E-05	3.091E-05	1.480E-05	2.494E-05	5.060E-05	2.554E-05	2.079E-05	3.224E-05	5.507E-05
5	4.612E-06	6.322E-06	1.170E-05	2.395E-05	3.904E-05	3.600E-05	3.491E-05	3.790E-05	4.794E-05	4.061E-05	3.139E-04	1.890E-04
6	4.925E-05	6.384E-05	5.324E-05	7.794E-05	8.904E-05	1.119E-04	1.099E-04	1.712E-04	1.134E-04	4.070E-04	3.355E-04	2.632E-04
10	2.463E-04	1.120E-04	7.000E-05	4.272E-05	1.342E-04	2.250E-04	1.989E-04	1.466E-04	1.744E-04	3.399E-04	4.493E-04	7.562E-05
15	2.949E-04	1.033E-04	1.144E-04	5.927E-04	6.072E-04	3.272E-04	1.933E-04	7.312E-04	7.710E-04	1.270E-03	4.070E-03	1.070E-03
20	1.010E-04	5.900E-05	5.491E-05	1.250E-03	1.355E-03	7.119E-04	1.790E-04	1.099E-03	1.093E-03	4.521E-04	2.560E-03	1.004E-03
30	2.610E-04	1.122E-04	1.471E-04	1.350E-03	4.070E-03	6.000E-04	6.390E-04	3.437E-04	7.490E-04	1.093E-03	7.703E-03	1.150E-02
45	3.781E-04	1.073E-04	1.160E-04	1.169E-02	1.109E-02	2.939E-04	1.427E-04	1.699E-04	1.131E-02	3.097E-04	4.424E-02	4.444E-02
60	1.913E-04	1.064E-04	2.700E-04	2.100E-04	3.000E-04	1.000E-04	1.000E-04	3.000E-04	1.000E-04	3.000E-04	4.500E-04	2.030E-04
75	1.099E-03	2.002E-02	4.300E-02	4.027E-03	3.000E-02	6.000E-02	6.000E-02	4.000E-02	4.000E-02	4.000E-02	4.000E-02	4.000E-02
90	3.777E-02	1.793E-02	4.077E-02	1.000E-01	1.111E-01	4.250E-02	4.000E-02	1.000E-01	4.000E-02	1.000E-01	4.000E-02	4.000E-02
120	5.000E-02	2.000E-02	3.000E-02	1.000E-01	1.000E-01	2.000E-01	2.000E-01	2.000E-01	2.000E-01	2.000E-01	2.000E-01	2.000E-01
150	1.277E-01	1.302E-01	1.440E-01	1.000E-01	1.000E-01	1.000E-01	1.700E-01	1.000E-01	2.000E-01	2.000E-01	2.000E-01	2.000E-01
174	1.440E-03	1.100E-03	4.000E-03	2.000E-03	2.000E-03	3.000E-03	3.000E-03	3.000E-03	2.000E-03	2.000E-03	2.000E-03	2.000E-03

[illegible][illegible]

	1.0E+03	1.5E+03	2.0E+03	3.0E+03	4.0E+03	5.0E+03	7.0E+03	1.0E+04	1.5E+04	2.0E+04	3.0E+04	4.0E+04
0E6												
1	1.175E-07	-1.436E-07	8.499E-08	-1.718E-07	3.871E-07	2.627E-08	1.259E-09	1.888E-07	8.491E-07	5.888E-07	1.028E-06	3.860E-06
2	2.266E-07	-9.273E-07	1.349E-07	-1.523E-07	-1.799E-07	2.001E-06	2.557E-06	1.462E-06	1.867E-06	2.649E-06	7.784E-06	4.638E-06
3	-2.757E-06	-2.773E-06	-1.371E-06	-1.520E-06	-1.520E-06	-1.520E-06	-1.520E-06	-1.520E-06	-1.520E-06	-1.520E-06	-1.520E-06	-1.520E-06
4	-2.511E-06	3.773E-06	-2.511E-06	-1.015E-06	-2.773E-06	1.218E-06	-6.501E-06	-2.773E-06	2.162E-06	2.567E-06	4.874E-06	1.511E-05
5	-2.009E-05	8.877E-05	1.602E-05	-1.17E-05	4.421E-05	-1.104E-05	6.745E-06	-1.057E-05	6.745E-06	2.688E-05	4.888E-05	1.900E-04
6	-6.726E-05	5.619E-05	2.447E-05	-3.527E-05	7.711E-05	4.714E-05	-1.659E-04	1.654E-05	7.711E-05	-3.247E-05	3.471E-04	2.794E-04
7	7.893E-05	-1.194E-04	2.447E-05	3.738E-05	7.711E-05	4.714E-05	-1.659E-04	1.654E-05	7.711E-05	-3.247E-05	3.471E-04	2.794E-04
10	-1.924E-04	-4.108E-04	2.732E-04	7.738E-04	7.738E-04	4.714E-05	-1.659E-04	1.654E-05	7.711E-05	-3.247E-05	3.471E-04	2.794E-04
20	1.874E-04	3.398E-04	1.874E-04	-2.277E-03	1.17E-03	1.088E-03	1.088E-03	1.17E-03	2.154E-03	-7.893E-03	-1.12E-03	-1.12E-03
30	-2.649E-03	1.667E-03	-2.649E-03	2.672E-03	4.714E-03	1.556E-03	4.914E-03	1.529E-03	-7.893E-03	-7.893E-03	2.653E-02	1.084E-02
45	-5.437E-03	5.619E-03	-1.194E-03	1.004E-02	1.004E-02	1.004E-02	1.004E-02	1.004E-02	1.004E-02	1.004E-02	1.004E-02	1.004E-02
60	-1.808E-02	1.346E-02	2.447E-02	-1.346E-02	-1.346E-02	-1.346E-02	-1.346E-02	-1.346E-02	-1.346E-02	-1.346E-02	-1.346E-02	-1.346E-02
75	1.396E-02	-2.440E-02	-2.440E-02	-1.396E-02	-1.396E-02	-1.396E-02	-1.396E-02	-1.396E-02	-1.396E-02	-1.396E-02	-1.396E-02	-1.396E-02
90	-2.657E-02	-7.061E-02	-4.513E-02	-1.034E-01	-1.034E-01	-1.034E-01	-1.034E-01	-1.034E-01	-1.034E-01	-1.034E-01	-1.034E-01	-1.034E-01
120	-3.790E-02	-1.567E-02	-7.449E-02	-1.567E-02	-1.567E-02	-1.567E-02	-1.567E-02	-1.567E-02	-1.567E-02	-1.567E-02	-1.567E-02	-1.567E-02
150	-1.117E-01	-1.415E-01	-1.415E-01	-1.593E-01	-1.593E-01	-1.593E-01	-1.593E-01	-1.593E-01	-1.593E-01	-1.593E-01	-1.593E-01	-1.593E-01
179	-6.649E-01	-4.495E-01	-4.495E-01	-5.045E-01	-5.045E-01	-5.045E-01	-5.045E-01	-5.045E-01	-5.045E-01	-5.045E-01	-5.045E-01	-5.045E-01
	5.0E+02	2.0E+02	1.0E+01	1.4E+01	7.0E+01	3.0E+01	4.0E+01	3.0E+01	7.0E+01	1.0E+00	1.5E+00	2.0E+00
0E6												
1	1.527E-04	4.447E-04	8.512E-05	8.353E-05	1.021E-05	8.181E-05	8.180E-05	1.355E-05	8.741E-05	6.198E-05	4.768E-05	3.877E-05
2	7.533E-04	1.986E-05	2.562E-05	2.561E-05	2.001E-05	2.001E-05	2.001E-05	2.001E-05	2.001E-05	2.001E-05	2.001E-05	2.001E-05
3	3.406E-04	5.110E-05	4.790E-05	4.487E-05	3.001E-05	3.172E-05	3.172E-05	3.172E-05	3.172E-05	3.172E-05	3.172E-05	3.172E-05
4	6.166E-04	8.190E-05	6.870E-05	6.470E-05	3.327E-05	1.176E-04	1.176E-04	1.176E-04	1.176E-04	1.176E-04	1.176E-04	1.176E-04
5	1.872E-04	7.573E-05	5.143E-05	1.674E-04	2.340E-04	3.380E-04	3.712E-04	3.712E-04	3.712E-04	3.712E-04	3.712E-04	3.712E-04
6	1.108E-04	-3.327E-05	6.898E-05	3.980E-04	5.768E-04	1.387E-04	7.980E-04	7.980E-04	7.980E-04	7.980E-04	7.980E-04	7.980E-04
10	-1.24E-04	-1.574E-04	2.458E-04	3.986E-04	1.418E-03	1.418E-03	1.428E-03	1.371E-03	1.216E-03	1.011E-03	7.764E-04	6.272E-04
15	-6.227E-04	6.714E-04	2.174E-03	3.333E-03	4.004E-03	4.007E-03	3.711E-03	3.730E-03	2.845E-03	2.272E-03	1.764E-03	1.353E-03
20	6.488E-04	4.164E-04	6.488E-04	1.888E-03	2.118E-03	7.164E-03	6.180E-03	3.416E-03	3.371E-03	3.370E-03	1.408E-03	1.860E-03
30	1.515E-02	2.014E-02	2.022E-02	1.674E-02	1.674E-02	4.246E-03	4.002E-03	3.984E-03	3.184E-03	1.961E-03	1.245E-03	7.940E-04
45	-6.242E-02	3.972E-02	1.403E-02	-1.161E-02	-3.003E-03	-1.328E-02	-1.671E-02	-1.671E-02	-1.671E-02	-1.671E-02	-1.671E-02	-1.671E-02
60	4.804E-03	-2.340E-02	-4.468E-02	-9.605E-02	-1.003E-02	-7.217E-02	-6.924E-02	-5.510E-02	-5.710E-02	-4.776E-02	-3.643E-02	-2.488E-02
75	-1.437E-01	-1.352E-01	-1.549E-01	-1.688E-01	-1.688E-01	-1.688E-01	-1.688E-01	-1.688E-01	-1.688E-01	-1.688E-01	-1.688E-01	-1.688E-01
90	-2.437E-01	-2.614E-01	-2.739E-01	-2.788E-01	-2.788E-01	-2.788E-01	-2.788E-01	-2.788E-01	-2.788E-01	-2.788E-01	-2.788E-01	-2.788E-01
120	-3.915E-01	-4.105E-01	-4.274E-01	-4.454E-01	-4.454E-01	-4.454E-01	-4.454E-01	-4.454E-01	-4.454E-01	-4.454E-01	-4.454E-01	-4.454E-01
150	-7.724E-01	-2.907E-01	-3.267E-01	-3.668E-01	-3.788E-01	-4.468E-01	-6.790E-01	-5.024E-01	-5.243E-01	-5.271E-01	-6.794E-01	-4.277E-01
179	-6.786E-01	-1.077E-02	-1.447E-02	-1.447E-02	-1.447E-02	-1.447E-02	-1.447E-02	-1.447E-02	-1.447E-02	-1.447E-02	-1.447E-02	-1.447E-02
	1.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
0E6												
1	2.439E-05	2.221E-04	1.621E-05	1.369E-05	7.001E-07	6.536E-07	6.536E-07	1.372E-07	2.504E-07	2.008E-07	1.439E-07	1.004E-07
2	1.194E-04	9.684E-06	2.578E-06	3.687E-06	4.001E-06	2.735E-06	2.954E-06	1.381E-06	1.040E-06	8.340E-07	6.194E-07	4.194E-07
3	2.865E-05	2.230E-05	1.233E-05	1.359E-05	7.708E-06	6.588E-06	6.982E-06	3.352E-06	2.525E-06	2.025E-06	1.451E-06	1.018E-06
4	5.511E-05	4.367E-05	3.530E-05	2.621E-05	1.871E-05	1.274E-05	9.437E-06	1.661E-06	4.882E-06	3.915E-06	2.805E-06	1.968E-06
5	1.425E-04	1.117E-04	9.173E-05	6.751E-05	4.687E-05	3.278E-05	2.480E-05	1.661E-05	1.258E-05	1.007E-05	7.217E-06	5.663E-06
6	2.777E-04	2.166E-04	1.771E-04	1.307E-04	9.349E-05	6.339E-05	4.792E-05	3.224E-05	2.428E-05	1.947E-05	1.395E-05	9.787E-06
10	4.517E-03	3.325E-04	2.893E-04	2.127E-04	1.210E-04	1.024E-04	7.781E-05	5.231E-05	3.930E-05	3.160E-05	2.264E-05	1.588E-05
15	7.644E-03	7.643E-04	6.123E-04	4.697E-04	3.628E-04	2.714E-04	1.664E-04	1.105E-04	8.323E-05	6.675E-05	4.781E-05	3.354E-05
20	1.316E-01	1.033E-03	8.470E-04	6.185E-04	4.368E-04	2.777E-04	2.251E-04	1.513E-04	1.134E-04	8.115E-05	6.544E-05	4.591E-05
30	5.007E-04	3.667E-04	2.608E-04	2.089E-04	1.457E-04	9.745E-05	7.342E-05	4.922E-05	3.704E-05	2.969E-05	2.126E-05	1.691E-05
45	-6.753E-01	-5.294E-03	-4.798E-03	-3.027E-03	-2.627E-03	-1.538E-03	-1.179E-03	-7.492E-04	-5.972E-04	-4.770E-04	-3.431E-04	-2.407E-04
60	-2.124E-02	-1.061E-02	-1.782E-02	-1.001E-02	-1.719E-03	-4.893E-03	-7.671E-03	-6.688E-03	-1.859E-03	-1.491E-03	-1.058E-03	-7.493E-04
75	-6.221E-02	-1.244E-02	-2.710E-02	-1.943E-02	-1.019E-02	-6.814E-02	-7.271E-03	-6.887E-03	-3.682E-03	-2.953E-03	-2.116E-03	-1.484E-03
90	-6.471E-03	-5.464E-02	-4.403E-02	-3.270E-02	-2.105E-02	-1.510E-02	-1.203E-02	-9.086E-03	-6.090E-03	-4.984E-03	-3.849E-03	-2.455E-03
120	-1.539E-01	-1.070E-01	-1.310E-01	-1.310E-01	-1.310E-01	-1.310E-01	-1.310E-01	-1.310E-01	-1.310E-01	-1.310E-01	-1.310E-01	-1.310E-01
150	-3.394E-01	-2.759E-01	-2.759E-01	-2.759E-01	-2.759E-01	-2.759E-01	-2.759E-01	-2.759E-01	-2.759E-01	-2.759E-01	-2.759E-01	-2.759E-01
179	-3.793E-02	-1.075E-01	-1.420E-01	-2.040E-01	-2.040E-01	-2.040E-01	-2.040E-01	-2.040E-01	-2.040E-01	-2.040E-01	-2.040E-01	-2.040E-01

H1 (H3)		SHEMANN FUNCTION DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM								ENERGY (MEV)			
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
DEG													
1	1.775E-07	-1.877E-07	-4.422E-08	2.321E-07	-2.751E-07	6.472E-07	-7.680E-08	4.822E-07	1.216E-08	9.009E-07	2.202E-06	3.881E-06	
2	5.413E-07	-7.307E-07	-1.421E-07	1.141E-07	5.748E-07	2.300E-06	1.786E-06	-1.784E-06	2.671E-06	1.717E-06	9.538E-06	6.176E-06	
3	-1.274E-07	-1.404E-06	-3.041E-06	6.029E-06	5.798E-06	-4.617E-06	1.462E-06	1.086E-05	-3.413E-06	1.816E-05	6.041E-06	1.191E-05	
4	-2.598E-06	7.117E-06	2.477E-06	-4.351E-06	-5.317E-06	1.272E-05	-1.002E-05	1.038E-05	1.688E-05	3.067E-05	3.066E-06	4.556E-05	
6	-2.966E-05	2.471E-05	2.470E-05	-2.551E-06	4.502E-05	-3.769E-05	5.919E-05	-3.381E-05	7.603E-05	-4.299E-05	8.385E-05	1.932E-04	
8	-2.528E-05	3.363E-05	-6.100E-06	2.420E-05	-8.166E-05	1.270E-05	-2.286E-05	1.507E-04	-7.588E-05	6.491E-05	3.381E-04	3.061E-04	
10	1.056E-04	-9.766E-05	3.673E-05	7.808E-05	2.377E-05	1.409E-04	-1.000E-04	2.550E-04	-2.653E-04	2.249E-04	5.362E-04	1.906E-04	
15	-3.201E-05	-3.542E-04	4.045E-04	5.105E-04	-4.831E-04	-1.167E-04	5.910E-04	-8.857E-04	1.038E-03	1.393E-03	-3.577E-04	-1.128E-03	
20	5.012E-04	6.747E-04	-1.725E-04	-1.170E-03	8.392E-04	1.392E-03	-1.844E-03	1.056E-03	2.462E-03	-3.545E-04	-2.857E-03	-1.764E-03	
30	-2.019E-03	2.082E-03	-3.043E-03	3.134E-03	-4.667E-03	-2.511E-03	4.842E-03	2.543E-03	-7.745E-03	-7.748E-03	1.555E-03	1.002E-02	
45	-7.304E-03	7.215E-03	-1.177E-02	4.382E-03	1.011E-02	3.825E-03	-1.840E-02	-1.848E-02	6.420E-03	2.732E-02	4.619E-02	4.862E-02	
60	-1.798E-02	1.034E-02	2.725E-02	-1.527E-02	-3.094E-02	-3.171E-02	1.722E-03	4.600E-02	7.718E-02	7.876E-02	5.618E-02	3.554E-02	
75	3.633E-02	-2.022E-02	-4.975E-02	-2.081E-02	2.672E-02	6.262E-02	9.979E-02	1.033E-01	6.510E-02	2.255E-02	-4.025E-02	-7.932E-02	
90	-5.581E-02	-1.399E-02	4.011E-02	1.034E-01	1.420E-01	1.121E-01	4.879E-02	-1.824E-03	-8.627E-02	-1.385E-01	-1.967E-01	-2.275E-01	
120	6.541E-02	-8.105E-02	7.047E-02	-1.519E-01	-1.697E-01	-2.497E-01	-2.658E-01	-2.978E-01	3.267E-01	-3.451E-01	-3.696E-01	-3.865E-01	
150	-1.348E-01	-1.448E-01	-1.510E-01	-1.610E-01	-1.694E-01	-1.759E-01	-1.816E-01	-1.981E-01	-2.136E-01	-2.262E-01	-2.465E-01	-2.632E-01	
179	-4.132E-03	-4.646E-03	-4.771E-03	-5.187E-03	-5.506E-03	-5.769E-03	-6.195E-03	-6.695E-03	-7.340E-03	-7.862E-03	-8.714E-03	-9.426E-03	
		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
DEG													
1	4.022E-04	4.706E-06	6.851E-06	8.427E-06	7.736E-06	7.709E-06	4.436E-06	7.373E-06	7.101E-06	6.213E-06	4.891E-06	3.872E-06	
2	8.944E-04	1.937E-05	2.530E-05	2.601E-05	2.445E-05	2.801E-05	2.891E-05	3.047E-05	2.629E-05	2.318E-05	1.917E-05	1.579E-05	
3	3.188E-05	5.104E-05	4.930E-05	4.562E-05	4.747E-05	6.033E-05	6.600E-05	5.752E-05	6.505E-05	5.766E-05	4.600E-05	3.336E-05	
4	7.845E-05	8.531E-05	6.630E-05	6.311E-05	8.004E-05	1.134E-04	1.275E-04	1.318E-04	1.275E-04	1.127E-04	9.048E-05	7.452E-05	
6	1.809E-04	8.778E-05	5.044E-05	1.316E-04	2.410E-04	3.238E-04	3.664E-04	3.664E-04	3.468E-04	3.008E-04	2.382E-04	1.951E-04	
8	1.446E-04	-3.016E-05	4.514E-05	3.342E-04	5.429E-04	7.389E-04	7.858E-04	7.777E-04	7.131E-04	6.066E-04	4.734E-04	3.851E-04	
10	-1.015E-04	-1.847E-04	1.832E-04	1.893E-04	1.139E-03	1.348E-03	1.423E-03	1.373E-03	1.225E-03	1.022E-03	7.874E-04	6.369E-04	
15	-9.445E-04	2.548E-04	2.005E-04	3.477E-03	3.793E-03	4.362E-03	3.790E-03	3.477E-03	2.932E-03	2.350E-03	1.759E-03	1.405E-03	
20	2.341E-04	3.762E-03	6.724E-03	8.268E-03	8.800E-03	7.708E-03	6.460E-03	5.681E-03	4.557E-03	3.516E-03	2.558E-03	2.017E-03	
30	1.553E-02	2.036E-02	2.100E-02	1.792E-02	1.848E-02	1.012E-02	7.412E-03	5.707E-03	3.773E-03	2.418E-03	1.401E-03	1.066E-03	
45	4.498E-02	3.365E-02	1.880E-02	3.406E-03	-4.957E-03	-1.253E-02	-1.515E-02	-1.589E-02	-1.542E-02	-1.362E-02	-8.971E-02	-8.971E-02	
60	9.537E-03	-1.974E-02	-4.430E-02	-6.256E-02	-6.744E-02	-7.168E-02	-6.896E-02	-6.500E-02	-5.702E-02	-4.732E-02	-3.643E-02	-2.948E-02	
75	-1.047E-01	-1.343E-01	-1.540E-01	-1.657E-01	-1.657E-01	-1.579E-01	-1.467E-01	-1.358E-01	-1.169E-01	-9.587E-02	-7.325E-02	-5.910E-02	
90	-2.462E-01	-2.567E-01	-2.794E-01	-2.824E-01	-2.777E-01	-2.598E-01	-2.407E-01	-2.227E-01	-1.921E-01	-1.579E-01	-1.210E-01	-9.775E-02	
120	-3.996E-01	-4.187E-01	-4.173E-01	-4.536E-01	-4.595E-01	-4.552E-01	-4.406E-01	-4.217E-01	-3.814E-01	-3.269E-01	-2.592E-01	-2.129E-01	
150	-2.777E-01	-3.024E-01	-3.120E-01	-3.134E-01	-4.057E-01	-4.545E-01	-4.882E-01	-5.108E-01	-5.327E-01	-5.300E-01	-4.866E-01	-4.334E-01	
179	-1.006E-02	-1.116E-02	-1.261E-02	-1.473E-02	-1.645E-02	-2.019E-02	-2.351E-02	-2.671E-02	-3.231E-02	-4.195E-02	-5.667E-02	-7.116E-02	
		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
DEG													
1	2.826E-05	2.218E-06	1.823E-06	1.334E-06	9.017E-07	6.525E-07	4.936E-07	3.320E-07	2.500E-07	2.006E-07	1.437E-07	1.008E-07	
2	1.157E-05	9.090E-06	7.677E-06	5.511E-06	3.948E-06	2.679E-06	2.027E-06	1.363E-06	1.027E-06	8.236E-07	5.900E-07	4.139E-07	
3	2.812E-05	2.210E-05	1.810E-05	1.340E-05	9.001E-06	6.516E-06	4.300E-06	3.315E-06	2.497E-06	2.003E-06	1.435E-06	1.037E-06	
4	5.454E-05	4.405E-05	3.523E-05	2.596E-05	1.880E-05	1.262E-05	9.544E-06	6.421E-06	4.837E-06	3.879E-06	2.779E-06	1.950E-06	
6	1.423E-04	1.115E-04	9.162E-05	6.734E-05	4.871E-05	3.270E-05	2.747E-05	1.664E-05	1.255E-05	1.005E-05	7.200E-06	5.051E-06	
8	2.798E-04	2.102E-04	1.791E-04	1.317E-04	9.427E-05	6.390E-05	4.839E-05	3.250E-05	2.448E-05	1.963E-05	1.406E-05	9.867E-06	
10	4.591E-04	3.584E-04	2.938E-04	2.159E-04	1.566E-04	1.047E-04	7.910E-05	5.322E-05	4.008E-05	3.215E-05	2.303E-05	1.616E-05	
15	1.002E-03	7.789E-04	6.711E-04	4.672E-04	3.337E-04	2.261E-04	1.710E-04	1.149E-04	8.655E-05	6.942E-05	4.973E-05	3.488E-05	
20	1.423E-03	1.101E-03	8.980E-04	5.575E-04	4.691E-04	3.176E-04	2.401E-04	1.614E-04	1.215E-04	9.746E-05	6.981E-05	4.897E-05	
30	6.690E-04	5.131E-04	4.104E-04	2.946E-04	2.078E-04	1.398E-04	1.055E-04	7.075E-05	5.325E-05	4.270E-05	3.058E-05	2.145E-05	
45	-6.560E-01	-5.151E-03	-4.735E-03	-3.120E-03	-2.624E-03	-1.516E-03	-1.147E-03	-7.715E-04	-5.811E-04	-4.661E-04	-3.339E-04	-2.342E-04	
60	-2.127E-02	-1.662E-02	-1.762E-02	-1.001E-02	-7.162E-03	-4.856E-03	-3.673E-03	-2.469E-03	-1.860E-03	-1.449E-03	-1.069E-03	-7.497E-04	
75	-4.754E-02	-3.319E-02	-2.721E-02	-1.999E-02	-1.499E-02	-9.688E-03	-7.327E-03	-4.926E-03	-3.710E-03	-2.976E-03	-2.132E-03	-1.496E-03	
90	-7.044E-02	-5.500E-02	-4.504E-02	-3.317E-02	-2.389E-02	-1.606E-02	-1.215E-02	-8.169E-03	-6.153E-03	-4.975E-03	-3.535E-03	-2.480E-03	
120	-1.557E-01	-1.223E-01	-1.006E-01	-7.416E-02	-5.317E-02	-3.605E-02	-2.728E-02	-1.835E-02	-1.382E-02	-1.108E-02	-7.941E-03	-5.571E-03	
150	-1.431E-01	-2.733E-01	-2.740E-01	-1.756E-01	-1.271E-01	-8.678E-02	-4.580E-02	-4.432E-02	-3.361E-02	-2.680E-02	-1.921E-02	-1.347E-02	
179	-4.972E-02	-1.278E-01	-1.553E-01	-2.083E-01	-2.814E-01	-3.848E-01	-4.611E-01	-5.415E-01	-5.561E-01	-5.373E-01	-4.692E-01	-3.729E-01	

PO (R4)		SHERMAN FUNCTION: DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM												ENERGY (MeV)	
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02		
DEG															
1	1.121E-07	-4.414E-07	-2.053E-07	4.291E-07	-2.121E-07	-1.830E-08	-1.045E-07	-5.946E-08	4.539E-07	1.464E-06	2.134E-06	2.357E-06			
2	6.616E-07	5.444E-08	-1.157E-06	5.777E-07	6.097E-07	1.112E-06	9.777E-07	-9.009E-07	3.093E-06	3.240E-07	1.006E-05	6.471E-06			
3	1.989F-04	-3.962E-08	-3.730F-06	5.252E-06	2.741F-06	-4.615E-06	4.598E-06	9.028E-06	-4.373E-06	1.712E-05	7.607E-06	9.873E-06			
4	6.173E-05	8.554E-06	7.530E-06	-1.050E-05	1.523E-07	8.768E-06	-1.281E-05	1.521E-05	1.243E-05	3.411E-05	-4.788E-06	3.763E-05			
6	-1.069F-05	2.904E-05	3.724E-05	1.334E-05	4.118E-05	-3.296E-05	4.395E-05	-4.460E-05	8.795E-05	-3.759E-05	6.772E-05	1.934E-04			
8	8.921E-06	8.123E-07	-4.143E-05	-1.046E-05	-6.053E-05	4.164E-05	-7.126E-05	1.291E-04	-4.983E-05	-9.363E-05	3.307E-04	3.352E-04			
10	9.635E-05	-4.933E-05	9.481F-05	1.321E-04	-3.012E-05	1.900E-04	-1.558E-04	2.990E-04	-2.863E-04	1.626E-04	5.990F-04	2.541E-04			
15	1.453E-04	-2.436E-04	4.923F-04	3.975E-04	-3.588E-04	-2.932E-04	7.349E-04	-9.193E-04	9.125E-04	1.500E-03	-2.054E-04	-1.124E-03			
20	7.533F-04	9.197E-04	-5.292E-04	-9.715E-04	5.067E-04	1.637E-03	-1.850E-03	6.994E-04	2.736E-03	9.611E-06	-2.916E-03	-2.095E-03			
30	-1.303F-03	2.803E-03	-3.571E-03	3.874E-03	-4.061E-03	-3.413E-03	4.614E-03	3.568E-03	-7.502E-03	-8.397F-03	4.192F-04	9.128E-03			
45	-8.505E-01	8.974E-03	-1.124E-02	6.398E-03	1.730E-02	6.323E-03	-1.755E-02	-2.041E-02	3.758E-03	2.553E-02	4.657F-02	5.040E-02			
60	-1.635E-02	6.654E-03	2.870E-02	-1.180E-02	-3.730E-02	-3.494E-02	-2.725E-03	4.320E-02	7.874E-02	8.237E-02	6.164E-02	3.606E-02			
75	3.801E-02	-1.550E-02	-5.930E-02	-2.635E-02	2.106E-02	5.912E-02	1.005E-01	1.086E-01	7.306E-02	3.032E-02	-3.449E-02	-7.533E-02			
90	-5.857E-02	-2.025E-02	3.460F-02	1.028E-01	1.191E-01	7.834E-02	7.182E-03	-8.044E-02	-1.353E-02	-1.965F-01	-2.289E-01	-2.289E-01			
120	7.297E-02	-2.013E-04	-6.454F-02	-1.501E-01	-2.002E-01	-2.324E-01	-2.715E-01	-3.039E-01	-3.738E-01	-3.525E-01	-3.774F-01	-3.940E-01			
150	-1.379E-01	-1.482E-01	-1.553F-01	-1.656E-01	-1.736E-01	-1.798E-01	-1.901E-01	-2.023E-01	-2.181E-01	-2.308E-01	-2.514E-01	-2.683E-01			
179	-4.217E-03	-4.587E-03	-4.867F-03	-5.291E-03	-5.615E-03	-5.882E-03	-6.315E-03	-6.823E-03	-7.478E-03	-8.633E-03	-9.596E-03	-9.596E-03			
DEG		5.0E-02	7.0E-02	1.0E-01	1.5F-01	2.0F-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00		
1	4.125E-06	4.738E-06	6.777F-06	8.489E-06	8.888E-06	8.819E-06	8.511E-06	8.129E-06	6.893E-06	6.232E-06	4.902E-06	4.008E-06			
2	6.225E-06	1.742E-05	2.550E-05	2.662E-05	2.776E-05	2.796E-05	2.868E-05	2.855E-05	2.596E-05	2.364E-05	1.897E-05	1.563E-05			
3	2.950E-05	5.228E-05	5.147E-05	4.653E-05	4.744E-05	5.899E-05	4.440E-05	6.603E-05	6.374E-05	5.669E-05	4.581F-05	3.782E-05			
4	7.655E-05	8.887E-05	6.843F-05	6.271E-05	7.914E-05	1.092E-04	1.218E-04	1.283E-04	1.247E-04	1.108E-04	8.918E-05	7.354E-05			
6	1.927E-04	1.003E-04	5.818E-05	1.195E-04	2.054E-04	3.111E-04	3.510E-04	3.592E-04	3.414E-04	2.982E-04	2.370E-04	1.943E-04			
8	1.782E-04	-2.104E-05	2.373F-05	2.987E-04	5.094E-04	7.170E-04	7.713E-04	7.684E-04	7.095E-04	6.063E-04	4.747E-04	3.868E-04			
10	-6.322E-05	-2.055E-04	1.212E-04	7.250E-04	1.088E-03	1.137E-03	1.413E-03	1.372E-03	1.231E-03	1.032E-03	7.970E-04	6.454E-04			
15	-1.055E-01	9.726E-05	1.823E-03	3.382E-03	3.947E-03	4.106E-03	3.862E-03	3.559E-03	3.016E-03	2.426E-03	1.821E-03	1.456E-03			
20	-1.860E-04	3.392E-03	6.542E-03	8.320E-03	8.479E-03	7.664E-03	6.731E-03	5.946E-03	4.794E-03	3.714E-03	2.711E-03	2.141E-03			
30	1.499E-02	2.051E-02	2.164E-02	1.891E-02	1.571E-02	1.107E-02	8.253E-03	6.454E-03	4.383E-03	2.895E-03	1.833E-03	1.345E-03			
45	4.750E-02	3.665E-02	2.168F-02	5.779E-03	-2.994E-03	-1.109E-02	-1.490E-02	-1.493E-02	-1.470E-02	-1.308E-02	-1.052E-02	-8.674E-03			
60	1.454E-02	-1.582E-02	-4.150E-02	-6.089E-02	-6.832E-02	-7.108E-02	-6.859E-02	-6.476E-02	-5.689E-02	-4.725E-02	-3.640E-02	-2.966E-02			
75	-1.020F-01	-1.332E-01	-1.548F-01	-1.665E-01	-1.672E-01	-1.590E-01	-1.478E-01	-1.368E-01	-1.178E-01	-9.660F-02	-7.380E-02	-5.954E-02			
90	-2.484E-01	-2.698E-01	-2.829E-01	-2.861E-01	-2.809F-01	-2.631E-01	-2.436E-01	-2.253E-01	-1.943E-01	-1.597F-01	-1.223E-01	-9.870E-02			
120	-4.077E-01	-4.270E-01	-4.456E-01	-4.617E-01	-4.676E-01	-4.626E-01	-4.473E-01	-4.279E-01	-3.867E-01	-3.312E-01	-2.624E-01	-2.155E-01			
150	-2.830E-01	-3.080E-01	-3.190E-01	-3.801E-01	-4.130E-01	-4.624E-01	-4.964E-01	-5.193E-01	-5.411E-01	-5.379E-01	-4.934E-01	-4.391E-01			
179	-1.024E-02	-1.136E-02	-1.284E-02	-1.499E-02	-1.694E-02	-2.055E-02	-2.393E-02	-2.719E-02	-3.350E-02	-4.270E-02	-5.769E-02	-7.244E-02			
DEG		3.0E+00	4.0E+00	5.0E+00	7.0F+00	1.0F+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02		
1	2.823E-06	2.215E-06	1.821E-06	1.341E-06	9.604E-07	6.517E-07	4.931E-07	1.316E-07	2.498E-07	2.003E-07	1.435E-07	1.007E-07			
2	1.146E-05	9.003E-06	7.400E-06	5.459E-06	3.711E-06	2.654E-06	2.008E-06	1.350E-06	1.017E-06	8.159E-07	5.845E-07	4.101E-07			
3	2.775E-05	2.182E-05	1.795E-05	1.323E-05	9.482E-06	6.435F-06	4.869E-06	3.275E-06	2.467E-06	1.978E-06	1.417E-06	9.943E-07			
4	5.388E-05	4.235E-05	3.483F-05	2.567E-05	1.819E-05	1.242E-05	9.443E-06	6.350E-06	4.783E-06	3.837E-06	2.749E-06	1.928E-06			
6	1.416E-04	1.111E-04	9.120F-05	6.721E-05	4.812E-05	3.265E-05	2.470E-05	1.661E-05	1.251E-05	1.003E-05	7.188E-06	5.043E-06			
8	2.804E-04	2.194E-04	1.801E-04	1.325E-04	9.478E-05	6.428E-05	4.863E-05	3.270E-05	2.463E-05	1.975E-05	1.415E-05	9.927E-06			
10	4.657E-04	3.637E-04	2.982E-04	2.192E-04	1.567E-04	1.093E-04	7.038E-05	5.404E-05	4.070E-05	3.265F-05	2.339F-05	1.641E-05			
15	1.039E-03	8.080E-04	6.411E-04	4.848E-04	3.444E-04	2.347E-04	1.735E-04	1.193E-04	8.984E-05	7.205E-05	5.162F-05	3.621E-05			
20	1.512E-03	1.170E-03	9.555E-04	6.993E-04	4.900E-04	3.378E-04	2.554E-04	1.717E-04	1.293E-04	1.037E-04	7.427E-05	5.210E-05			
30	8.872E-04	6.668E-04	5.160E-04	3.666E-04	2.775E-04	1.843E-04	1.391E-04	9.337E-05	7.028E-05	5.675E-05	4.036E-05	2.831E-05			
45	-6.352E-03	-4.991E-03	-4.105E-03	-3.025E-03	-2.167E-03	-1.470E-03	-1.112E-03	-7.481E-04	-5.635E-04	-4.520E-04	-3.238E-04	-2.272E-04			
60	-2.126E-02	-1.661E-02	-1.362E-02	-1.001E-02	-7.160E-03	-4.855E-03	-3.672E-03	-2.469E-03	-1.860E-03	-1.491F-03	-1.068E-03	-7.495E-04			
75	-4.285E-02	-3.344E-02	-2.741E-02	-2.013E-02	-1.445E-02	-9.754E-03	-7.391E-03	-4.963E-03	-3.738E-03	-2.998E-03	-2.147E-03	-1.507E-03			
90	-7.116E-02	-5.555E-02	-4.554E-02	-3.346E-02	-2.393E-02	-1.622E-02	-1.227E-02	-8.251E-03	-6.214E-03	-4.984E-03	-3.507E-03	-2.505E-03			
120	-1.576E-01	-1.238E-01	-1.010E-01	-7.501E-02	-5.374E-02	-3.647E-02	-2.759E-02	-1.856E-02	-1.398E-02	-1.121E-02	-8.031E-03	-5.634E-03			
150	-3.474E-01	-2.827E-01	-2.368F-01	-1.777E-01	-1.284E-01	-8.779E-02	-6.657E-02	-4.444E-02	-3.379E-02	-2.711E-02	-1.943E-02	-1.363E-02			
179	-1.015E-01	-1.301E-01	-1.580F-01	-2.120E-01	-2.648E-01	-3.915E-01	-4.687E-01	-5.509E-01	-5.642E-01	-5.448E-01	-4.754E-01	-3.775E-01			

AT (55)

SHEKHAN FUNCTIONS: DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM

ENERGY (MEV)

DEG 1.0E+03

1.5E+03

2.0E+03

3.0E+03

4.0E+03

5.0E+03

7.0E+03

1.0E+04

1.5E+04

2.0E+04

DEG	5.645E-08	-3.639E-07	-2.271E-07	-2.379E-07	1.714E-07	4.667E-07	5.817E-07	5.801E-07	-2.366E-07	1.089E-06	5.970E-07	2.740E-06
1	-8.061E-08	1.346E-06	-1.104E-06	1.077E-06	1.174E-06	1.061E-06	-7.080E-07	-1.113E-06	4.759E-06	9.054E-07	9.647E-06	6.081E-06
2	2.967E-06	2.701E-06	-2.723E-06	4.114E-06	1.450E-06	-2.300E-06	6.867E-06	1.628E-06	-4.372E-06	1.558E-05	7.930E-06	8.091E-06
3	6.669E-06	6.253E-06	9.962E-06	8.534E-06	5.730E-06	-2.657E-06	-1.314E-05	1.910E-05	6.503E-06	3.251E-05	3.219E-05	3.219E-05
4	5.536E-06	2.611E-05	3.109E-05	2.082E-05	3.017E-05	-2.027E-05	4.640E-05	-5.186E-05	9.694E-05	-2.841E-05	5.092E-05	1.910E-04
5	4.105E-05	-3.180E-05	-6.623E-05	-4.479E-05	-3.047E-05	6.057E-06	-4.263E-05	1.011E-04	-1.956E-05	-1.155E-04	3.172E-04	3.620E-04
6	5.254E-05	1.336E-05	1.182E-04	1.725E-04	-9.957E-05	-2.277E-04	-2.014E-04	3.325E-04	-2.961E-04	9.616E-05	4.249E-04	3.194E-04
7	2.933E-04	1.053E-03	-8.457E-04	2.439E-04	-9.457E-04	-6.4579E-04	8.539E-04	-7.137E-04	7.634E-04	1.538E-03	-3.715E-03	-2.409E-03
8	3.924E-04	3.323E-03	-3.986E-03	6.904E-04	1.173E-03	1.819E-03	-1.364E-03	3.142E-04	2.977E-03	3.975E-04	-2.933E-03	-2.409E-03
9	4.200E-03	1.040E-02	-1.023E-02	4.617E-03	1.017E-03	6.838E-03	-1.640E-02	-2.409E-02	9.853E-04	-2.351E-02	4.617E-02	5.205E-02
10	1.403E-02	3.007E-02	2.919E-02	-9.959E-02	-3.179E-02	3.773E-02	-7.294E-02	1.008E-01	1.137E-02	8.570E-02	-2.808E-02	4.177E-02
11	3.103E-02	-1.029E-02	-1.036E-02	-1.164E-02	1.172E-01	1.259E-01	1.008E-02	1.630E-02	-7.402E-02	-3.847E-02	-2.808E-02	-7.093E-02
12	5.054E-02	2.558E-02	2.871E-02	1.016E-01	1.072E-01	1.259E-01	8.809E-02	1.630E-02	-7.402E-02	-3.847E-02	-2.808E-02	-7.093E-02
13	-1.411E-02	8.211E-03	-5.801E-04	-1.479E-01	-2.004E-01	-2.449E-01	-7.741E-01	-3.100E-01	-3.609E-01	-1.165E-01	-1.980E-01	-2.101E-01
14	-1.411E-02	8.211E-03	-5.801E-04	-1.479E-01	-2.004E-01	-2.449E-01	-7.741E-01	-3.100E-01	-3.609E-01	-1.165E-01	-1.980E-01	-2.101E-01
15	-4.303E-03	-4.686E-03	-4.965E-03	-5.395E-03	-5.724E-03	-5.996E-03	-6.430E-03	-6.952E-03	-7.518E-03	-8.159E-03	-9.034E-03	-9.768E-03

DEG 5.0E+02

7.0E+02

1.0E+01

1.5E+01

2.0E+01

3.0E+01

4.0E+01

5.0E+01

7.0E+01

1.0E+02

DEG	2.528E-06	4.705E-06	6.694E-06	8.538E-06	8.908E-06	8.929E-06	4.047E-06	4.131E-06	6.913E-06	5.810E-06	4.915E-06	4.016E-06
1	7.104E-05	1.773E-05	2.619E-05	2.724E-05	2.914E-05	2.788E-05	2.850E-05	2.829E-05	2.715E-05	2.241E-05	1.877E-05	1.547E-05
2	2.694E-05	5.339E-05	5.156E-05	4.692E-05	5.174E-05	5.770E-05	6.297E-05	6.852E-05	6.252E-05	5.567E-05	4.500E-05	3.725E-05
3	1.617E-04	9.445E-05	7.289E-05	6.325E-05	7.061E-05	1.052E-04	1.184E-04	1.244E-04	1.219E-04	1.047E-04	8.733E-05	7.244E-05
4	2.033E-04	1.448E-04	5.170E-04	2.602E-04	1.907E-04	2.962E-04	3.384E-04	3.991E-04	3.357E-04	2.945E-04	2.348E-04	1.924E-04
5	1.213E-04	-6.162E-06	6.727E-06	4.771E-04	1.073E-03	1.364E-04	7.544E-04	1.509E-04	7.041E-04	6.045E-04	4.788E-04	3.874E-04
6	1.821E-05	-9.954E-05	6.582E-04	3.273E-03	3.727E-03	4.133E-03	1.399E-03	1.922E-03	3.652E-03	1.203E-03	1.038E-03	6.527E-04
7	-1.148E-04	2.997E-03	6.332E-03	8.363E-03	8.014E-03	7.910E-03	4.991E-03	6.008E-03	5.032E-03	3.916E-03	2.866E-03	2.266E-03
8	1.438E-02	2.956E-02	2.731E-02	1.969E-02	1.174E-02	1.209E-02	9.123E-02	7.231E-02	5.019E-02	3.395E-02	2.202E-02	1.638E-02
9	4.698E-02	3.971E-02	2.647E-02	8.207E-02	-9.404E-02	-9.539E-02	-1.277E-02	-1.390E-02	-1.391E-02	-1.250E-02	-1.011E-02	-8.352E-03
10	-9.891E-02	-1.162E-02	-1.857E-02	-5.93E-02	-6.704E-02	-7.038E-02	-6.813E-02	-6.643E-02	-5.720E-02	-4.714E-02	-3.633E-02	-2.942E-02
11	-2.595E-02	-1.317E-01	-1.549E-01	-1.671E-01	-1.081E-01	-1.601E-01	-1.449E-01	-1.378E-01	-1.186E-01	-9.779E-02	-7.633E-02	-5.946E-02
12	-4.166E-01	-4.53E-01	-4.53E-01	-2.889E-01	-2.654E-01	-2.654E-01	-2.654E-01	-2.654E-01	-2.654E-01	-2.654E-01	-2.654E-01	-2.654E-01
13	-2.863E-01	-3.138E-01	-3.453E-01	-4.059E-01	-4.754E-01	-4.700E-01	-4.501E-01	-4.341E-01	-3.919E-01	-3.354E-01	-2.659E-01	-2.180E-01
14	-1.042E-02	-1.150E-02	-1.109E-02	-1.525E-02	-1.724E-02	-2.091E-02	-2.435E-02	-2.767E-02	-3.410E-02	-4.065E-02	-5.071E-02	-7.373E-02

DEG 3.0E+00

4.0E+00

5.0E+00

7.0E+00

1.0E+01

1.5E+01

2.0E+01

3.0E+01

4.0E+01

5.0E+01

DEG	2.944E-06	2.214E-06	1.811E-06	1.366E-06	9.207E-07	6.512E-07	4.920E-07	3.313E-07	2.495E-07	2.001E-07	1.644E-07	1.009E-07
1	1.134E-05	8.713E-06	7.124E-06	5.405E-06	3.172E-06	2.612E-06	1.988E-06	1.337E-06	1.007E-06	8.079E-07	5.889E-07	4.061E-07
2	2.735E-05	2.515E-05	1.770E-05	1.305E-05	9.472E-06	6.347E-06	4.803E-06	3.230E-06	2.473E-06	1.954E-06	1.398E-06	9.806E-07
3	5.314E-05	4.178E-05	3.437E-05	2.534E-05	1.919E-05	1.412E-05	9.381E-06	6.269E-06	4.722E-06	3.797E-06	2.713E-06	1.903E-06
4	1.407E-04	2.201E-04	9.074E-05	6.682E-05	4.748E-05	3.411E-05	2.462E-05	1.692E-05	1.242E-05	9.941E-06	7.133E-06	5.011E-06
5	4.714E-04	3.084E-04	1.801E-04	1.324E-04	9.130E-05	6.453E-05	4.882E-05	3.242E-05	2.472E-05	1.943E-05	1.421E-05	9.606E-06
6	1.075E-01	8.704E-04	6.444E-04	5.022E-04	3.304E-04	1.077E-04	6.163E-05	3.409E-05	4.125E-05	3.309E-05	2.317E-05	1.561E-05
7	1.674E-01	1.241E-03	1.013E-03	7.417E-04	5.681E-04	3.544E-04	2.310E-04	1.430E-04	1.270E-04	9.307E-05	5.737E-05	3.751E-05
8	1.095E-03	8.280E-04	6.474E-04	4.831E-04	3.302E-04	2.210E-04	1.304E-04	1.073E-04	7.224E-04	-5.444E-04	-4.404E-04	-2.194E-04
9	-6.124E-02	-1.659E-02	-1.190E-02	-9.399E-03	-7.157E-03	-5.620E-03	-4.669E-03	-3.662E-03	-2.646E-03	-1.858E-03	-1.077E-03	-7.416E-04
10	-4.315E-02	-3.207E-02	-2.796E-02	-2.027E-02	-1.454E-02	-9.627E-03	-6.424E-03	-4.497E-03	-3.744E-03	-3.019E-03	-2.452E-03	-1.521E-03
11	-7.186E-02	-5.610E-02	-4.794E-02	-3.747E-02	-2.614E-02	-1.942E-02	-1.219E-02	-8.331E-03	-6.275E-03	-5.013E-03	-3.655E-03	-2.579E-03
12	-1.594E-01	-1.252E-01	-1.023E-01	-7.34E-02	-5.101E-01	-3.688E-02	-2.730E-02	-1.878E-02	-1.413E-02	-1.134E-02	-8.122E-03	-5.694E-03
13	-3.517E-01	-2.861E-01	-2.393E-01	-1.797E-01	-1.301E-01	-9.388E-02	-6.713E-02	-4.553E-02	-3.418E-02	-2.724E-02	-1.953E-02	-1.379E-02
14	-1.033E-01	-1.324E-01	-1.400E-01	-2.157E-01	-3.561E-01	-4.764E-01	-5.544E-01	-5.764E-01	-5.724E-01	-5.523E-01	-4.815E-01	-3.421E-01

RN	SHEMMAH FUNCTION: DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM											ENERGY (MEV)
	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
DEG												
1	1.201E-07	-1.147E-07	-3.282E-07	-3.771E-07	-2.051E-07	-3.269E-07	-1.599E-07	-4.832E-07	5.549E-07	9.551E-07	4.715E-07	2.071E-06
2	-8.102E-07	1.125E-06	-7.038E-07	2.034E-06	2.078E-06	6.068E-07	-1.248E-06	-2.438E-07	4.500E-06	-6.446E-07	1.012E-05	7.452E-06
3	2.201E-04	4.25E-06	-1.432E-07	8.987E-07	-1.799E-06	-1.092E-07	8.594E-06	5.372E-06	-4.041E-06	1.354E-05	1.026E-05	6.646E-06
4	2.841E-06	1.465E-06	9.551E-06	-3.277E-06	1.089E-05	-2.388E-06	-1.243E-05	2.274E-05	9.701E-07	4.179E-05	-6.202E-06	2.611E-05
6	1.994E-05	1.426E-05	2.099E-05	3.899E-05	1.511E-05	-5.018E-06	4.083E-05	-5.485E-05	1.032E-04	-1.688E-05	3.201E-05	1.861E-04
8	5.78E-05	-6.009E-05	-7.701E-05	-7.304E-05	6.204E-06	-3.035E-05	-8.998E-06	6.773E-05	1.464E-05	-1.389E-04	2.983E-04	3.859E-04
10	-1.142E-05	7.659E-05	1.582E-04	1.934E-04	-1.722E-04	2.487E-04	-2.367E-04	3.543E-04	-2.937E-04	2.723E-05	6.519E-04	3.859E-04
15	3.747E-04	1.077E-04	4.685E-04	6.201E-05	-1.717E-05	-5.943E-04	9.417E-04	-8.811E-04	5.932E-04	1.652E-03	1.452E-04	-1.048E-03
20	8.261E-04	1.052E-03	-1.045E-03	-3.429E-04	-2.604E-04	1.928E-03	-1.567E-03	-9.132E-05	3.175E-03	8.043E-04	-2.906E-03	-2.694E-03
30	6.091E-04	3.586E-03	-3.956E-03	4.891E-03	-3.531E-03	-4.978E-03	5.689E-03	5.540E-03	-6.655E-03	-9.454E-03	-1.933E-03	7.092E-03
45	-9.318E-03	1.140E-02	-8.835E-03	1.754E-03	1.871E-02	1.132E-02	-1.497E-02	-2.359E-02	-1.881E-03	2.128E-02	4.663E-02	5.354E-02
60	-1.106E-02	-1.065E-03	3.009E-02	-3.799E-03	-3.064E-02	-4.023E-02	-1.197E-02	3.648E-02	7.923E-02	8.896E-02	7.282E-02	4.769E-02
75	3.405E-02	-6.058E-03	-4.557E-02	-3.731E-02	9.346E-03	5.068E-02	1.003E-01	1.185E-01	8.947E-02	4.699E-02	-2.159E-02	-6.611E-02
90	-6.009E-02	-3.292E-02	2.270E-02	9.978E-02	1.302E-01	1.322E-01	9.800E-02	-2.681E-02	-6.697E-02	1.273E-01	-1.952E-01	-2.310E-01
120	8.802E-02	1.706E-02	-5.088E-02	-1.451E-01	-2.011E-01	-2.372E-01	-2.807E-01	-3.161E-01	-3.481E-01	-3.678E-01	-3.935E-01	-4.116E-01
150	-1.443E-01	-1.551E-01	-1.825E-01	-1.733E-01	-1.871E-01	-1.878E-01	-1.985E-01	-2.109E-01	-2.271E-01	-2.401E-01	-2.613E-01	-2.787E-01
179	-4.396E-03	-4.773E-03	-5.064E-03	-5.502E-03	-5.837E-03	-6.112E-03	-6.559E-03	-7.083E-03	-7.759E-03	-8.304E-03	-9.196E-03	-9.941E-03
	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
DEG												
1	3.149E-01	4.691E-06	6.682E-06	8.572E-06	9.099E-06	9.043E-06	8.885E-06	8.261E-06	6.788E-06	5.818E-06	4.932E-06	4.029E-06
2	5.366E-06	1.599E-05	2.578E-05	2.580E-05	2.745E-05	2.800E-05	2.836E-05	2.870E-05	2.533E-05	2.309E-05	1.853E-05	1.528E-05
3	2.128E-05	5.109E-05	5.438E-05	4.941E-05	4.751E-05	5.671E-05	6.160E-05	6.307E-05	6.120E-05	5.456E-05	4.422E-05	3.658E-05
4	7.278E-05	9.791E-05	7.770E-05	6.400E-05	7.469E-05	1.012E-04	1.187E-04	1.207E-04	1.187E-04	1.064E-04	8.614E-05	7.122E-05
6	2.131E-04	1.304E-04	5.545E-05	9.623E-05	1.155E-04	2.824E-04	3.262E-04	3.391E-04	3.288E-04	2.897E-04	2.321E-04	1.905E-04
8	4.497E-04	9.408E-06	1.050E-06	2.267E-04	4.412E-04	6.641E-04	7.353E-04	7.433E-04	6.967E-04	6.013E-04	4.739E-04	3.871E-04
10	3.323E-05	-2.279E-04	5.702E-06	5.892E-04	9.188E-04	1.310E-03	1.381E-03	1.357E-03	1.235E-03	1.044E-03	8.113E-04	6.587E-04
15	-1.225E-03	-2.927E-04	1.428E-03	3.149E-03	3.871E-03	4.161E-03	3.980E-03	3.793E-03	3.172E-03	2.570E-03	1.938E-03	1.553E-03
20	-1.028E-03	2.578E-03	6.084E-03	3.335E-03	8.765E-03	8.135E-03	7.256E-03	6.467E-03	5.270E-03	4.115E-03	3.021E-03	2.392E-03
30	1.367E-02	2.053E-02	2.291E-02	2.087E-02	1.781E-02	1.305E-02	1.002E-02	8.037E-03	5.683E-03	3.916E-03	2.597E-03	1.945E-03
45	5.238E-02	4.282E-02	2.788E-02	1.092E-02	1.305E-03	-7.885E-03	-1.145E-02	-1.280E-02	-1.307E-02	-1.187E-02	-9.663E-03	-8.802E-03
60	2.536E-02	-7.131E-03	-3.534E-02	-5.698E-02	-6.543E-02	-6.955E-02	-6.758E-02	-6.403E-02	-5.645E-02	-4.695E-02	-3.624E-02	-2.935E-02
75	-9.547E-02	-1.300E-01	-1.542E-01	-1.674E-01	-1.589E-01	-1.611E-01	-1.498E-01	-1.387E-01	-1.195E-01	-9.795E-02	-7.482E-02	-6.036E-02
90	-2.524E-01	-2.758E-01	-2.899E-01	-2.935E-01	-2.881E-01	-2.695E-01	-2.494E-01	-2.305E-01	-1.985E-01	-1.630E-01	-1.247E-01	-1.007E-01
120	-4.243E-01	-4.438E-01	-4.624E-01	-4.782E-01	-4.834E-01	-4.774E-01	-4.609E-01	-4.403E-01	-3.972E-01	-3.397E-01	-2.688E-01	-2.206E-01
150	-2.938E-01	-3.196E-01	-3.514E-01	-3.938E-01	-4.274E-01	-4.783E-01	-5.131E-01	-5.362E-01	-5.580E-01	-5.537E-01	-5.068E-01	-4.505E-01
179	-1.060E-02	-1.177E-02	-1.329E-02	-1.552E-02	-1.744E-02	-2.127E-02	-2.677E-02	-3.415E-02	-3.669E-02	-4.422E-02	-5.974E-02	-7.502E-02
	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
DEG												
1	2.932E-06	2.298E-06	1.888E-06	1.390E-06	9.950E-07	6.750E-07	5.106E-07	3.434E-07	2.586E-07	2.074E-07	1.486E-07	1.043E-07
2	1.122E-05	8.822E-06	7.258E-06	5.350E-06	3.937E-06	2.601E-06	1.968E-06	1.324E-06	9.971E-07	7.998E-07	5.730E-07	4.020E-07
3	2.692E-05	2.118E-05	1.743E-05	1.285E-05	9.212E-06	6.253E-06	4.731E-06	3.182E-06	2.397E-06	1.922E-06	1.377E-06	9.662E-07
4	5.230E-05	4.184E-05	3.185E-05	2.496E-05	1.789E-05	1.214E-05	9.184E-06	6.177E-06	4.653E-06	3.732E-06	2.673E-06	1.876E-06
6	1.395E-04	1.095E-04	8.993E-05	6.629E-05	4.769E-05	3.221E-05	2.437E-05	1.639E-05	1.295E-05	9.982E-06	7.094E-06	4.977E-06
8	2.813E-04	2.203E-04	1.810E-04	1.331E-04	9.580E-05	6.464E-05	4.890E-05	3.288E-05	2.477E-05	1.986E-05	1.423E-05	9.983E-06
10	4.763E-04	3.723E-04	3.054E-04	2.245E-04	1.604E-04	1.089E-04	8.237E-05	5.538E-05	4.171E-05	3.346E-05	2.397E-05	1.681E-05
15	1.111E-03	8.645E-04	7.076E-04	5.191E-04	3.789E-04	2.513E-04	1.901E-04	1.278E-04	9.623E-05	7.718E-05	5.529E-05	3.879E-05
20	1.693E-03	1.312E-03	1.072E-03	7.847E-04	5.001E-04	3.793E-04	2.867E-04	1.927E-04	1.451E-04	1.164E-04	8.339E-05	5.850E-05
30	1.313E-03	9.970E-04	8.059E-04	5.843E-04	4.167E-04	2.799E-04	2.116E-04	1.420E-04	1.069E-04	8.570E-05	6.138E-05	4.306E-05
45	-5.881E-03	-4.627E-03	-3.808E-03	-2.808E-03	-2.012E-03	-1.366E-03	-1.039E-03	-6.951E-04	-5.236E-04	-4.200E-04	-3.009E-04	-2.111E-04
60	-2.119E-02	-1.656E-02	-1.250E-02	-9.980E-03	-7.138E-03	-4.840E-03	-3.661E-03	-2.461E-03	-1.854E-03	-1.487E-03	-1.065E-03	-7.473E-04
75	-4.344E-02	-3.389E-02	-2.770E-02	-2.041E-02	-1.459E-02	-9.691E-03	-7.481E-03	-5.010E-03	-3.788E-03	-3.038E-03	-2.177E-03	-1.527E-03
90	-7.255E-02	-5.663E-02	-4.643E-02	-3.411E-02	-2.479E-02	-1.654E-02	-1.251E-02	-8.410E-03	-6.334E-03	-5.080E-03	-3.639E-03	-2.553E-03
120	-1.612E-01	-1.266E-01	-1.041E-01	-7.670E-02	-5.494E-02	-3.728E-02	-2.821E-02	-1.897E-02	-1.429E-02	-1.146E-02	-8.211E-03	-5.760E-03
150	-3.594E-01	-2.894E-01	-2.624E-01	-1.818E-01	-1.314E-01	-8.979E-02	-6.802E-02	-5.586E-02	-3.456E-02	-2.773E-02	-1.987E-02	-1.394E-02
179	-1.051E-01	-1.347E-01	-1.636E-01	-2.195E-01	-2.968E-01	-4.047E-01	-4.841E-01	-5.668E-01	-5.805E-01	-5.598E-01	-4.876E-01	-3.867E-01

FR (87)		SPHERICAL FUNCTION* DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM								ENERGY (MEV)					
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02		
DEG															
1	2.753E-07	-6.940E-08	-3.849E-08	-5.155E-07	7.482E-08	-4.745E-07	-4.960E-07	-1.292E-07	5.409E-07	9.885E-07	3.658E-07	1.999E-06			
2	-8.739E-07	9.756E-07	1.181E-07	1.173E-06	1.492E-06	-1.400E-07	-7.877E-07	5.457E-07	4.781E-06	-8.403E-07	1.046E-05	8.111E-06			
3	-2.944E-08	2.888E-06	2.494E-06	-1.078E-06	-3.510E-06	2.592E-06	8.858E-06	2.039E-06	-3.479E-06	1.225E-05	1.287E-05	5.571E-06			
4	-2.907E-06	-4.458E-06	6.173E-06	1.918E-06	1.446E-05	-7.631E-06	-9.741E-06	2.511E-05	-5.199E-06	4.135E-05	-5.208E-06	1.982E-05			
6	2.491E-05	-2.942E-06	1.136E-06	4.327E-05	-1.946E-06	1.157E-05	5.186E-05	-5.429E-05	1.062E-04	-2.654E-06	1.416E-05	1.782E-05			
8	5.127E-05	-6.892E-05	-7.022E-05	-4.022E-05	4.310E-05	-6.608E-05	2.839E-05	3.060E-05	5.223E-05	-1.525E-04	2.741E-04	4.063E-04			
10	-7.345E-05	1.243E-04	1.497E-04	1.908E-04	-1.909E-04	2.510E-04	-2.531E-04	3.529E-04	-2.796E-04	-4.282E-05	6.662E-04	4.527E-04			
15	3.633E-04	2.858E-04	3.573E-04	-1.315E-04	1.172E-04	-7.079E-04	9.927E-04	-8.101E-04	4.052E-04	1.690E-03	3.392E-04	-9.771E-04			
20	6.190E-04	9.096E-04	-1.220E-03	4.777E-05	-6.547E-04	1.953E-03	-1.321E-03	-5.054E-04	3.325E-03	1.225E-03	-2.832E-03	-2.955E-03			
30	1.584E-03	3.558E-03	-3.764E-03	5.104E-03	-2.744E-03	-5.585E-03	4.998E-03	6.529E-03	-6.047E-03	-9.843E-03	-3.132E-03	5.960E-03			
45	-8.826E-03	1.191E-02	-7.020E-03	-8.032E-04	1.887E-02	1.373E-02	-1.324E-02	-2.490E-02	-4.821E-03	1.883E-02	4.629E-02	5.486E-02			
60	-7.519E-03	-5.267E-03	2.983E-02	6.359E-04	-3.557E-02	-4.241E-02	-1.670E-02	3.258E-02	7.911E-02	9.186E-02	7.848E-02	5.382E-02			
75	3.835E-02	1.327E-03	-4.821E-02	-4.263E-02	3.249E-03	4.577E-02	9.970E-02	1.229E-01	9.705E-02	5.589E-02	-1.441E-02	-6.082E-02			
90	-5.983E-02	-3.923E-02	4.736E-02	1.375E-02	1.375E-01	1.382E-01	1.080E-01	3.743E-02	-5.926E-02	-1.225E-01	-1.939E-01	-2.316E-01			
120	9.541E-02	2.632E-02	-4.313E-02	-1.417E-01	-2.016E-01	-2.392E-01	-2.852E-01	-3.223E-01	-3.554E-01	-3.756E-01	-4.017E-01	-4.194E-01			
150	-1.475E-01	-1.586E-01	-1.663E-01	-1.772E-01	-1.875E-01	-1.920E-01	-2.027E-01	-2.154E-01	-2.317E-01	-2.449E-01	-2.664E-01	-2.840E-01			
179	-4.478E-03	-4.668E-03	-5.164E-03	-5.609E-03	-5.950E-03	-6.230E-03	-6.684E-03	-7.216E-03	-7.901E-03	-8.455E-03	-9.360E-03	-1.112E-02			
		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00		
DEG															
1	2.707E-06	4.696E-06	6.504E-06	8.591E-05	7.054E-06	9.160E-06	8.781E-06	8.338E-06	6.812E-06	6.146E-06	4.951E-07	4.044E-06			
2	5.052E-06	1.445E-05	2.403E-05	2.642E-05	2.612E-05	2.821E-05	2.824E-05	2.788E-05	2.761E-05	2.206E-05	1.776E-05	1.467E-05			
3	2.151E-05	5.071E-05	5.840E-05	5.112E-05	4.940E-05	5.379E-05	6.016E-05	6.173E-05	5.988E-05	5.347E-05	4.342E-05	3.594E-05			
4	6.864E-05	1.009E-04	8.280E-05	6.491E-05	7.329E-05	7.739E-05	1.116E-04	1.169E-04	1.155E-04	1.039E-04	8.442E-05	6.989E-05			
6	2.212E-04	1.457E-04	6.120E-05	8.718E-05	1.011E-04	2.674E-04	3.134E-04	3.284E-04	3.203E-04	2.847E-04	2.283E-04	1.880E-04			
8	2.864E-04	3.285E-05	-2.417E-05	1.921E-04	4.042E-04	6.349E-04	7.139E-04	7.275E-04	6.875E-04	5.964E-04	4.718E-04	3.859E-04			
10	9.063E-05	-2.279E-04	-4.805E-05	5.184E-04	9.146E-04	1.271E-03	1.358E-03	1.344E-03	1.273E-03	1.046E-03	8.158E-04	6.632E-04			
15	-1.283E-03	-4.825E-04	1.216E-03	3.009E-03	3.406E-03	4.169E-03	4.024E-03	3.764E-03	3.241E-03	2.637E-03	1.994E-03	1.600E-03			
20	-1.444E-03	2.137E-03	5.802E-03	8.295E-03	8.844E-03	8.362E-03	7.508E-03	6.722E-03	5.506E-03	4.317E-03	3.178E-03	2.520E-03			
30	1.286E-02	2.040E-02	2.343E-02	2.182E-02	1.884E-02	1.408E-02	1.095E-02	8.672E-03	6.370E-03	4.460E-03	2.991E-03	2.265E-03			
45	5.470E-02	4.596E-02	3.101E-02	1.370E-02	3.051E-03	-6.120E-03	-1.003E-02	-1.161E-02	-1.216E-02	-1.119E-02	-9.179E-03	-7.623E-03			
60	3.119E-02	-2.339E-03	-3.183E-02	-5.473E-02	-6.404E-02	-6.861E-02	-6.694E-02	-6.355E-02	-5.613E-02	-4.678E-02	-3.611E-02	-2.925E-02			
75	-9.163E-02	-1.280E-01	-1.536E-01	-1.679E-01	-1.696E-01	-1.620E-01	-1.507E-01	-1.395E-01	-1.202E-01	-9.856E-02	-7.528E-02	-6.073E-02			
90	-2.542E-01	-2.786E-01	-2.933E-01	-2.971E-01	-2.914E-01	-2.727E-01	-2.522E-01	-2.330E-01	-2.086E-01	-1.648E-01	-1.259E-01	-1.017E-01			
120	-4.328E-01	-4.523E-01	-4.709E-01	-4.865E-01	-4.914E-01	-4.848E-01	-4.676E-01	-4.465E-01	-4.024E-01	-3.639E-01	-2.719E-01	-2.231E-01			
150	-2.992E-01	-3.254E-01	-3.577E-01	-4.007E-01	-4.344E-01	-4.583E-01	-5.214E-01	-5.447E-01	-5.664E-01	-5.615E-01	-5.134E-01	-4.536E-01			
179	-1.079E-02	-1.197E-02	-1.195E-02	-1.578E-02	-1.784E-02	-2.163E-02	-2.520E-02	-2.863E-02	-3.529E-02	-4.498E-02	-6.077E-02	-7.632E-02			
		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02		
DEG															
1	2.941E-06	2.305E-06	1.893E-06	1.394E-06	9.878E-07	6.769E-07	5.121E-07	3.443E-07	2.594E-07	2.080E-07	1.490E-07	1.045E-07			
2	1.077E-05	8.467E-06	6.967E-06	5.137E-06	3.681E-06	2.498E-06	1.898E-06	1.271E-06	9.577E-07	7.681E-07	5.533E-07	3.861E-07			
3	2.643E-05	2.080E-05	1.715E-05	1.265E-05	9.063E-06	6.152E-06	4.655E-06	3.131E-06	2.358E-06	1.692E-06	1.355E-06	9.507E-07			
4	5.138E-05	4.043E-05	3.272E-05	2.454E-05	1.794E-05	1.194E-05	9.032E-06	6.074E-06	4.576E-06	3.670E-06	2.629E-06	1.845E-06			
6	1.376E-04	1.081E-04	8.880E-05	6.549E-05	4.691E-05	3.183E-05	2.408E-05	1.620E-05	1.220E-05	9.784E-06	7.010E-06	4.918E-06			
8	2.808E-04	2.201E-04	1.808E-04	1.330E-04	9.524E-05	6.450E-05	4.887E-05	3.286E-05	2.475E-05	1.985E-05	1.422E-05	9.787E-06			
10	4.801E-04	3.754E-04	3.080E-04	2.265E-04	1.820E-04	1.099E-04	8.312E-05	5.589E-05	4.209E-05	3.376E-05	2.419E-05	1.697E-05			
15	1.145E-03	8.916E-04	7.094E-04	5.356E-04	3.870E-04	2.594E-04	1.961E-04	1.319E-04	9.930E-05	7.964E-05	5.705E-05	4.024E-05			
20	1.786E-03	1.384E-03	1.131E-03	8.282E-04	5.812E-04	4.004E-04	2.827E-04	2.033E-04	1.532E-04	1.229E-04	8.803E-05	6.175E-05			
30	1.540E-03	1.174E-03	9.140E-04	6.282E-04	4.403E-04	3.312E-04	2.501E-04	1.680E-04	1.265E-04	1.014E-04	7.265E-05	5.096E-05			
45	-5.616E-02	-4.422E-03	-3.641E-03	-2.686E-03	-1.945E-03	-1.307E-03	-8.890E-04	-6.651E-04	-5.010E-04	-4.019E-04	-2.879E-04	-2.020E-04			
60	-2.112E-02	-1.651E-02	-1.154E-02	-8.951E-03	-7.114E-03	-4.826E-03	-3.651E-03	-2.454E-03	-1.849E-03	-1.483E-03	-1.062E-03	-7.452E-04			
75	-4.370E-02	-3.410E-02	-2.795E-02	-2.053E-02	-1.484E-02	-9.952E-03	-7.527E-03	-5.061E-03	-3.812E-03	-3.057E-03	-2.190E-03	-1.562E-03			
90	-7.323E-02	-5.716E-02	-4.686E-02	-3.443E-02	-2.542E-02	-1.669E-02	-1.262E-02	-8.449E-03	-6.393E-03	-5.127E-03	-3.673E-03	-2.577E-03			
120	-1.336E-01	-1.280E-01	-1.052E-01	-7.754E-02	-5.295E-02	-3.769E-02	-2.851E-02	-1.918E-02	-1.444E-02	-1.159E-02	-8.300E-03	-5.824E-03			
150	-3.601E-01	-2.928E-01	-2.451E-01	-1.838E-01	-1.370E-01	-9.078E-02	-6.883E-02	-4.636E-02	-3.494E-02	-2.803E-02	-2.067E-02	-1.409E-02			
179	-1.069E-01	-1.370E-01	-1.646E-01	-2.232E-01	-3.018E-01	-4.113E-01	-4.918E-01	-5.752E-01	-5.886E-01	-5.672E-01	-4.936E-01	-3.913E-01			

RA (88)

SHERMAN FUNCTION. DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM

INFLUENT (MEV)

	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
DEG												
1	3.831E-07	-2.635E-07	-1.674E-07	-5.998E-07	-5.074E-08	-2.033E-07	-4.047E-07	-2.615E-07	-3.503E-07	1.611E-06	8.328E-07	3.914E-06
2	-1.821E-07	-4.193E-07	9.763E-07	6.236E-07	1.010E-06	-1.322E-06	-1.368E-06	2.987E-07	4.997E-06	-8.264E-08	9.984E-06	7.341E-06
3	-2.410E-04	1.318E-06	4.268E-06	-3.431E-06	-5.147E-06	4.201E-06	9.360E-06	7.531E-07	-1.903E-06	9.666E-06	1.507E-05	3.957E-06
4	-6.954E-06	-8.244E-06	2.472E-07	8.208E-06	1.544E-05	-1.210E-05	-4.508E-06	2.722E-05	-9.968E-06	4.155E-05	-3.159E-06	1.403E-05
6	1.783E-05	-1.917E-05	-1.279E-05	4.079E-05	-1.223E-05	2.881E-05	7.816E-05	-4.899E-05	1.054E-04	1.397E-05	-1.956E-06	1.681E-04
8	2.323E-05	-5.807E-05	-4.630E-05	-4.418E-05	7.337E-05	-9.341E-05	4.660E-05	-5.140E-05	4.029E-05	-1.611E-04	2.851E-04	4.220E-04
10	-1.116E-04	1.436E-04	1.120E-04	1.621E-04	-2.000E-04	2.334E-04	-2.541E-04	3.557E-04	-2.526E-04	-1.113E-04	4.706E-04	5.194E-04
15	2.585E-04	4.213E-04	1.939E-04	-3.198E-04	3.694E-04	-7.753E-04	1.602E-03	-7.039E-04	2.041E-04	1.699E-03	5.433E-04	-8.893E-04
20	2.825E-04	6.395E-04	-1.231E-03	4.550E-04	-1.024E-03	1.890E-03	-1.012E-03	-4.180E-04	3.423E-03	1.653E-03	-2.711E-03	-3.185E-03
30	2.413E-03	3.226E-03	-3.310E-03	5.091E-03	-1.811E-03	-6.040E-03	4.160E-03	7.411E-03	-5.319E-03	-1.013E-02	-4.333E-03	4.754E-03
45	-7.708E-03	1.189E-02	-4.852E-03	-3.439E-03	1.645E-02	1.602E-02	-1.124E-02	-2.598E-02	-7.817E-03	1.617E-02	4.509E-02	5.598E-02
60	-3.522E-03	-9.495E-03	2.822E-02	5.285E-03	-3.398E-02	-4.423E-02	-2.145E-02	2.833E-02	7.895E-02	4.446E-02	4.416E-02	6.010E-02
75	3.679E-02	7.581E-03	-4.615E-02	-4.778E-02	-3.145E-03	4.440E-02	9.828E-02	1.267E-01	1.063E-01	6.513E-02	-4.715E-02	-5.506E-02
90	-5.881E-02	-4.545E-02	9.393E-03	9.434E-02	1.342E-01	1.438E-01	1.141E-01	4.855E-02	-5.087E-02	-1.170E-01	-1.922E-01	-2.319E-01
120	1.026E-01	3.596E-02	-3.676E-02	-1.377E-01	-2.005E-01	-2.410E-01	-2.895E-01	-3.245E-01	-3.628E-01	-3.835E-01	-4.100E-01	-4.279E-01
150	-1.508E-01	-1.622E-01	-1.700E-01	-1.812E-01	-1.946E-01	-1.962E-01	-2.071E-01	-2.199E-01	-2.364E-01	-2.498E-01	-2.715E-01	-2.893E-01
179	-4.567E-03	-4.965E-03	-5.765E-03	-5.719E-03	-6.064E-03	-6.369E-03	-6.810E-03	-7.350E-03	-8.045E-03	-8.807E-03	-9.525E-03	-1.024E-02
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	3.152E-06	3.196E-06	6.404E-06	7.204E-06	9.287E-06	9.200E-06	7.894E-06	8.421E-06	7.509E-06	5.972E-06	4.771E-06	4.061E-06
2	4.886E-06	1.462E-05	2.597E-05	2.930E-05	2.080E-05	2.659E-05	2.820E-05	2.776E-05	2.540E-05	2.311E-05	1.819E-05	1.494E-05
3	1.732E-05	4.940E-05	5.949E-05	5.246E-05	5.050E-05	5.050E-05	5.895E-05	5.857E-05	5.857E-05	5.243E-05	4.254E-05	3.528E-05
4	6.382E-05	1.032E-04	8.812E-05	6.774E-05	7.219E-05	9.381E-05	1.075E-04	1.113E-04	1.122E-04	1.014E-04	8.258E-05	6.845E-05
6	2.273E-04	1.636E-04	6.884E-05	8.017E-05	1.472E-04	2.526E-04	2.999E-04	3.169E-04	3.118E-04	2.787E-04	2.250E-04	1.850E-04
8	3.228E-04	5.739E-05	-3.095E-05	1.596E-04	3.687E-04	6.037E-04	4.902E-04	7.094E-04	6.762E-04	5.900E-04	4.684E-04	3.838E-04
10	1.535E-04	-2.266E-04	-9.753E-05	4.466E-04	8.492E-04	1.220E-03	1.370E-03	1.327E-03	1.275E-03	1.046E-03	8.182E-04	6.661E-04
15	-1.321E-03	-6.661E-04	-6.970E-04	2.853E-03	3.717E-03	4.164E-03	4.050E-03	3.168E-03	3.305E-03	2.699E-03	2.047E-03	1.644E-03
20	-1.850E-01	1.675E-03	5.683E-03	8.220E-03	8.491E-03	8.565E-03	7.749E-03	6.975E-03	5.740E-03	4.510E-03	3.336E-03	2.648E-03
30	1.195E-02	2.016E-02	2.788E-02	2.276E-02	1.904E-02	1.513E-02	1.191E-02	9.730E-03	7.086E-03	5.027E-03	3.411E-03	2.600E-03
45	5.692E-02	4.913E-02	3.434E-02	1.662E-02	6.137E-03	4.238E-03	-4.511E-03	-1.033E-02	-1.119E-02	-1.046E-02	-8.656E-03	-7.213E-03
60	3.731E-02	2.766E-03	-2.405E-02	-5.225E-02	-6.227E-02	-6.753E-02	-6.618E-02	-6.297E-02	-5.575E-02	-4.852E-02	-3.546E-02	-2.913E-02
75	-8.737E-02	-1.257E-01	-1.527E-01	-1.681E-01	-1.702E-01	-1.628E-01	-1.516E-01	-1.406E-01	-1.209E-01	-9.914E-02	-7.572E-02	-6.104E-02
90	-2.556E-01	-2.812E-01	-2.966E-01	-3.006E-01	-2.956E-01	-2.758E-01	-2.549E-01	-2.355E-01	-2.026E-01	-1.662E-01	-1.271E-01	-1.026E-01
120	-4.414E-01	-4.609E-01	-4.795E-01	-4.949E-01	-4.985E-01	-4.922E-01	-4.744E-01	-4.527E-01	-4.276E-01	-3.941E-01	-3.751E-01	-2.250E-01
150	-3.048E-01	-3.313E-01	-3.641E-01	-4.076E-01	-4.427E-01	-4.943E-01	-5.298E-01	-5.532E-01	-5.748E-01	-5.694E-01	-5.201E-01	-4.617E-01
179	-1.697E-02	-1.217E-02	-1.175E-02	-1.605E-02	-1.814E-02	-2.200E-02	-2.563E-02	-2.942E-02	-3.589E-02	-4.575E-02	-4.181E-02	-7.762E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.952E-06	2.314E-06	1.600E-06	1.399E-06	1.001E-06	6.792E-07	5.138E-07	3.455E-07	2.603E-07	2.087E-07	1.495E-07	1.044E-07
2	1.079E-05	8.639E-06	7.108E-06	5.240E-06	3.754E-06	2.548E-06	1.928E-06	1.246E-06	9.766E-07	7.833E-07	5.612E-07	3.937E-07
3	2.595E-05	2.043E-05	1.682E-05	1.241E-05	8.893E-06	6.036E-06	4.568E-06	3.072E-06	2.314E-06	1.856E-06	1.330E-06	9.324E-07
4	5.037E-05	3.966E-05	3.265E-05	2.408E-05	1.724E-05	1.172E-05	8.866E-06	5.963E-06	4.491E-06	3.602E-06	2.581E-06	1.811E-06
6	1.360E-04	1.069E-04	8.790E-05	6.478E-05	4.641E-05	3.149E-05	2.383E-05	1.602E-05	1.207E-05	9.652E-06	6.936E-06	4.866E-06
8	2.796E-04	2.193E-04	1.801E-04	1.326E-04	9.498E-05	6.441E-05	4.373E-05	3.277E-05	2.468E-05	1.980E-05	1.418E-05	9.949E-06
10	4.828E-04	3.777E-04	3.100E-04	2.280E-04	1.671E-04	1.106E-04	8.369E-05	5.627E-05	4.278E-05	3.399E-05	2.435E-05	1.708E-05
15	1.178E-03	9.176E-04	7.514E-04	5.514E-04	3.941E-04	2.671E-04	2.020E-04	1.358E-04	1.023E-04	8.202E-05	5.876E-05	4.122E-05
20	1.878E-03	1.457E-03	1.191E-03	8.720E-04	6.226E-04	4.216E-04	1.188E-04	2.143E-04	1.614E-04	1.294E-04	9.217E-05	6.504E-05
30	1.779E-03	1.359E-03	1.102E-03	8.010E-04	5.694E-04	3.847E-04	2.908E-04	1.952E-04	1.470E-04	1.179E-04	8.444E-05	5.923E-05
45	-5.329E-03	-4.201E-03	-3.661E-03	-2.554E-03	-1.871E-03	-1.243E-03	-8.408E-04	-6.329E-04	-4.767E-04	-3.823E-04	-2.739E-04	-1.922E-04
60	-2.104E-02	-1.644E-02	-1.148E-02	-9.912E-03	-7.091E-03	-4.808E-03	-3.637E-03	-2.645E-03	-1.842E-03	-1.477E-03	-1.058E-03	-7.423E-04
75	-4.396E-02	-3.430E-02	-2.811E-02	-2.065E-02	-1.477E-02	-1.001E-02	-7.570E-03	-5.040E-03	-3.833E-03	-3.075E-03	-2.202E-03	-1.545E-03
90	-7.389E-02	-5.768E-02	-4.728E-02	-3.473E-02	-2.484E-02	-1.684E-02	-1.274E-02	-8.543E-03	-6.450E-03	-5.173E-03	-3.705E-03	-2.600E-03
120	-1.648E-01	-1.294E-01	-1.064E-01	-7.836E-02	-5.617E-02	-3.809E-02	-2.882E-02	-1.939E-02	-1.460E-02	-1.171E-02	-8.388E-03	-5.888E-03
150	-3.643E-01	-2.961E-01	-2.479E-01	-1.858E-01	-1.345E-01	-9.177E-02	-6.958E-02	-4.686E-02	-3.572E-02	-2.834E-02	-2.030E-02	-1.425E-02
179	-1.088E-01	-1.393E-01	-1.693E-01	-2.270E-01	-3.046E-01	-4.100E-01	-4.955E-01	-5.967E-01	-5.746E-01	-4.946E-01	-3.958E-01	

DEG	1.0E-03	1.5E-03	2.0E-03	3.0F-03	4.0F-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	3.530E-07	-3.795E-07	-4.485E-07	8.466E-08	2.555E-07	-6.071E-07	-6.643E-07	2.906E-08	-3.072E-07	1.560E-06	1.102E-06	2.983E-06
2	7.676E-07	-6.817E-07	1.144E-06	5.795E-07	4.702E-07	-1.514E-06	-1.104E-06	2.429E-06	6.137E-06	3.621E-07	9.950F-06	8.223E-06
3	-3.043E-06	-2.014E-05	4.835E-06	-4.058E-06	-5.546E-06	6.895E-06	8.242E-06	2.674E-06	2.140E-07	5.617E-06	1.763E-05	3.261E-06
4	-1.565E-06	-8.741E-06	-5.361F-06	1.265E-05	1.541E-05	-1.350E-05	1.139E-06	2.603E-05	1.182E-07	4.084E-05	-7.919E-08	8.593E-06
6	1.494E-06	-2.959E-06	-2.730E-05	2.961E-05	-3.390E-05	4.342E-05	1.157E-05	-3.963E-05	1.011E-04	3.105E-05	1.825F-05	1.557E-04
8	1.534E-05	-2.908E-05	-1.143E-05	-8.218E-05	1.053E-04	-1.131E-04	1.024E-04	4.727E-05	1.294E-04	-1.610E-04	2.115E-04	4.342E-04
10	1.105E-04	1.288E-04	5.249E-05	-4.845E-04	1.264E-04	1.965E-04	-9.381E-04	3.337E-04	-2.134E-04	-1.773E-04	6.552E-04	5.830E-04
15	8.305E-05	4.897E-04	-2.724E-04	-4.845E-04	5.474E-04	-7.954E-04	9.584E-04	5.647E-04	-8.483E-06	1.679E-03	7.544E-04	-7.467E-04
20	2.984E-03	2.607E-03	-2.610E-03	4.839E-03	7.627E-03	-6.323E-03	-6.485E-04	1.319E-03	3.468E-03	2.040F-03	-2.541E-03	-3.379E-03
45	-6.023E-03	1.131E-02	-2.394E-03	-6.089E-03	1.002E-02	1.812E-02	-9.955E-03	2.682E-02	1.474E-02	-1.330E-02	5.527E-03	3.494E-03
60	8.026E-04	-1.364E-02	2.733E-02	1.008E-02	-3.144E-02	4.564E-02	-6.202E-02	2.376E-02	7.752E-02	1.032E-02	4.681E-02	5.689E-02
75	3.446E-02	1.400E-02	4.339E-02	-5.271E-02	-9.711E-03	3.462E-02	9.626E-02	1.305E-01	1.147E-01	7.471E-02	8.982E-02	6.67E-02
90	-5.706E-02	5.155E-02	-2.114E-03	9.071E-02	1.352E-01	1.281E-01	6.019E-02	-4.171E-02	-4.171E-02	-1.109E-01	1.901E-01	-2.319E-01
120	1.097E-01	4.596E-02	-2.574E-02	-1.331E-01	-1.959E-01	-2.424E-01	-2.934E-01	3.347E-01	-3.703E-01	-2.915F-01	-4.185E-01	-4.336E-01
150	-1.542E-01	-1.659E-01	-1.739E-01	-1.852E-01	-1.745E-01	-2.005E-01	-2.115E-01	-2.245E-01	-2.541E-01	-2.947F-01	-2.767F-01	-2.947E-01
179	-4.557E-03	-5.062E-03	-5.366E-03	-5.829E-03	-6.181E-03	-6.470E-03	-6.938E-03	-7.486E-03	-8.192E-03	-8.761E-03	-9.693E-03	-1.047E-02
DEG	5.0E-02	7.0E-02	1.0E-01	1.5F-01	2.0F-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	3.270E-06	3.330E-06	4.594E-06	6.688E-06	9.460E-06	8.118E-06	8.992E-06	7.617E-06	7.573E-06	6.206E-06	4.871E-06	3.784E-06
2	5.616E-04	1.365E-05	2.561E-05	2.994E-05	2.945E-05	2.871E-05	2.830E-05	2.765E-05	2.571E-05	2.157E-05	1.797E-05	1.484E-05
3	1.456E-05	4.836E-05	6.043F-05	5.449E-05	5.148E-05	5.452E-05	5.784E-05	5.960E-05	5.728E-05	5.132E-05	4.171E-05	3.454E-05
4	5.837E-05	1.049E-04	9.206E-05	7.029E-05	7.162E-05	9.349E-05	1.036E-04	1.091E-04	1.088E-04	9.857E-05	8.062E-05	6.692E-05
6	2.324E-04	1.820E-04	1.769E-04	1.326E-04	1.369E-04	2.370E-04	2.866E-04	3.050E-04	3.036E-04	2.725E-04	2.205E-04	1.823E-04
8	3.587E-04	8.713E-05	-3.749E-05	1.272E-04	3.248E-04	5.684E-04	6.652E-04	6.891E-04	6.630E-04	5.819E-04	4.638E-04	3.807E-04
10	2.210E-04	-2.047E-04	1.429E-04	3.735E-04	7.504E-04	1.160E-03	1.298E-03	1.305E-03	1.213E-03	1.043E-03	8.186E-04	6.675E-04
15	-1.339E-03	-8.414E-04	7.712E-04	6.682E-03	3.007E-03	4.143E-03	4.080E-03	3.858E-03	3.562E-03	2.757E-03	2.097F-03	1.686E-03
20	-2.242E-03	1.197E-03	5.129E-03	8.109E-03	8.261E-03	8.750E-03	7.979E-03	7.211E-03	5.970E-03	4.717E-03	3.493F-03	2.950E-03
30	1.094E-02	1.982E-02	2.426E-02	2.366E-02	2.101E-02	1.620E-02	1.289E-02	1.063E-02	7.829E-03	5.617E-03	3.850E-03	2.950E-03
45	5.901E-02	5.230E-02	3.778F-02	1.968E-02	6.751E-02	-2.234E-02	-8.890E-03	-8.964E-03	-1.014E-02	-9.670E-03	-8.093E-03	-6.772E-03
60	4.370E-02	8.195E-03	-2.391E-02	-4.954E-02	-6.971E-02	-6.631E-02	-6.531E-02	-6.230E-02	-5.529E-02	-6.621E-02	-7.573E-02	-6.772E-02
75	-8.265E-02	-1.230E-01	-1.510E-01	-1.680E-01	-1.706E-01	-1.635E-01	-1.523E-01	-1.411E-01	-1.210E-01	-1.078E-01	-9.678E-02	-8.141E-02
90	-2.569E-01	-2.837E-01	-2.994F-01	-3.041E-01	-2.984E-01	-2.788E-01	-2.576E-01	-2.379E-01	-2.046E-01	-1.678E-01	-1.283E-01	-1.039E-01
120	-4.501E-01	-4.696E-01	-4.881E-01	-5.033E-01	-5.074E-01	-4.996E-01	-4.812E-01	-4.549E-01	-4.128E-01	-3.522E-01	-2.782E-01	-2.281E-01
150	-3.104E-01	-3.473E-01	-3.703E-01	-4.146E-01	-4.444E-01	-5.024E-01	-5.382E-01	-5.617E-01	-5.832E-01	-5.772E-01	-5.267E-01	-4.673E-01
179	-1.116E-02	-1.238E-02	-1.398F-02	-1.632E-02	-1.945E-02	-2.237E-02	-2.605E-02	-2.961E-02	-3.649E-02	-4.652E-02	-6.284E-02	-7.893E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0F+00	1.0F+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.966E-06	2.324E-06	1.908F-06	1.404E-06	1.005E-06	6.820E-07	5.154E-07	3.669E-07	2.613E-07	2.096E-07	1.501E-07	1.053E-07
2	1.088E-05	8.551E-06	7.035E-06	5.186E-06	3.716E-06	2.522E-06	1.908E-06	1.283E-06	9.666E-07	7.752E-07	5.554E-07	3.894E-07
3	2.547E-05	2.005E-05	1.651E-05	1.218E-05	8.710E-06	5.926E-06	4.484E-06	3.016E-06	2.272E-06	1.822E-06	1.305E-06	9.153E-07
4	4.936E-05	3.883E-05	3.191F-05	2.359E-05	1.691E-05	1.148E-05	8.686E-06	5.842E-06	4.400E-06	3.595E-06	2.829E-06	1.774E-06
6	1.338E-04	1.052E-04	8.656E-05	6.380E-05	4.571E-05	3.102E-05	2.347E-05	1.579E-05	1.189E-05	9.537E-06	6.833E-06	4.793E-06
8	2.778E-04	2.179E-04	1.791E-04	1.319E-04	9.443E-05	6.408E-05	4.847E-05	3.259E-05	2.455E-05	1.949E-05	1.411E-05	9.896E-06
10	4.844E-04	3.791E-04	3.112E-04	2.290E-04	1.633E-04	1.111E-04	8.406E-05	5.652E-05	4.257E-05	3.415E-05	2.446E-05	1.719E-05
15	1.210E-03	9.425E-04	7.719E-04	5.666E-04	4.050E-04	2.745E-04	2.076E-04	1.396E-04	1.051E-04	8.430E-05	6.079E-05	4.236E-05
20	1.972E-03	1.530E-03	1.250E-03	9.161E-04	6.541E-04	4.430E-04	3.350E-04	2.252E-04	1.694E-04	1.360E-04	9.742E-05	6.834E-05
35	2.027E-03	1.552E-03	1.260E-03	9.168E-04	6.521E-04	4.408E-04	3.300E-04	2.237E-04	1.684E-04	1.351E-04	9.675E-05	6.787E-05
45	-5.019E-03	-3.926E-03	-3.266E-03	-2.412E-03	-1.730E-03	-1.174E-03	-8.888E-04	-5.978E-04	-4.504E-04	-3.612E-04	-2.588E-04	-1.810E-04
60	-2.093F-02	-1.636E-02	-1.342E-02	-9.864E-03	-7.054E-03	-4.785E-03	-3.619E-03	-2.433E-03	-1.833E-03	-1.470E-03	-1.053E-03	-7.387E-04
75	-4.819E-02	-3.648E-02	-2.826F-02	-2.076E-02	-1.444E-02	-1.006E-02	-6.611E-03	-4.517E-03	-3.854E-03	-3.031E-03	-2.214E-03	-1.553E-03
90	-7.455E-02	-5.818E-02	-4.747E-02	-3.504E-02	-2.504E-02	-1.699E-02	-1.285E-02	-8.637E-03	-6.506E-03	-5.214E-03	-3.738E-03	-2.622E-03
120	-1.665F-01	-1.307E-01	-1.075E-01	-7.919E-01	-5.672E-02	-3.848E-02	-2.912E-02	-1.958E-02	-1.475E-02	-1.143E-02	-8.675E-03	-5.945E-03
150	-3.685E-01	-2.994E-01	-2.508E-01	-1.874E-01	-1.459E-01	-9.274E-02	-7.032E-02	-4.736E-02	-3.565E-02	-2.864E-02	-2.052E-02	-1.440E-02
179	-1.106E-01	-1.417E-01	-1.721E-01	-2.307E-01	-3.114E-01	-4.247E-01	-5.920E-01	-8.047E-01	-1.084E-01	-1.480E-01	-2.056F-01	-2.840E-01

TH	(90)	SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)			
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02		
DEG															
1	2.527E-07	-3.481E-07	-1.864E-07	1.142E-07	-3.402E-07	-2.771E-07	1.778E-07	-3.051E-07	-2.302E-07	7.321E-07	2.064E-06	1.639E-06			
2	9.615E-07	-7.301E-07	1.714E-06	-4.360E-07	-6.822E-07	-1.308E-06	1.777E-08	3.079E-06	5.965E-06	1.142E-06	9.363E-06	9.067E-06			
3	-8.352E-07	-3.510E-06	3.602E-06	-4.754E-06	-3.846E-06	8.038E-06	6.385E-06	-4.539E-06	3.322E-06	2.762E-06	2.049E-05	3.603E-06			
4	-1.459E-06	-4.965E-06	-9.366E-06	1.381E-05	1.147E-05	-1.363E-05	6.936E-06	2.250E-05	-1.594E-05	3.813E-05	3.332E-06	3.616E-06			
6	-1.657E-05	-2.905E-05	-3.522E-05	1.423E-05	-4.417E-05	5.538E-05	2.963E-06	-2.540E-05	9.253E-05	5.009E-05	-3.338E-05	1.416E-04			
8	-4.898E-05	1.045E-05	2.845E-05	-5.674E-05	1.277E-04	-1.222E-04	1.339E-04	-8.414E-05	1.656E-04	-1.590E-04	1.731E-04	4.401E-04			
10	-6.902E-05	8.206E-05	-1.859E-05	4.638E-05	-1.823E-04	1.421E-04	-2.045E-04	2.965E-04	-1.627E-04	-2.385E-04	6.492E-04	6.440E-04			
15	-1.201E-04	4.734E-04	-2.072E-04	-6.077E-04	6.084E-04	-7.647E-04	9.994E-04	-3.959E-04	-2.247E-04	1.629E-03	9.694E-04	-6.296E-04			
20	-5.219E-04	-1.479E-04	-8.654E-04	1.204E-03	-1.605E-03	1.496E-03	-2.390E-04	-1.695E-03	3.437E-03	2.501E-03	-2.322E-03	-3.535E-03			
30	3.215E-03	1.739E-03	-1.700E-03	4.352E-03	3.695E-04	-6.417E-03	2.133E-03	8.899E-03	-3.514E-03	-1.035E-02	-6.702E-03	2.172E-02			
45	-3.851E-03	1.017E-02	2.765E-04	-8.684E-03	1.699E-02	2.000E-02	-6.438E-03	-2.739E-02	-1.388E-02	1.028E-02	4.365E-02	5.757E-02			
60	5.301E-03	-1.759E-02	2.513E-02	1.495E-02	-2.271E-02	-4.661E-02	-3.090E-02	1.887E-02	7.603E-02	9.858E-02	9.543E-02	7.336E-02			
75	3.119E-02	2.049E-02	-3.987E-02	-5.737E-02	-1.655E-02	2.843E-02	9.363E-02	1.335E-01	1.232E-01	8.460E-02	1.027E-02	-4.198E-02			
90	-5.435E-02	-5.746E-02	-5.004E-02	8.648E-02	1.354E-01	1.534E-01	1.380E-01	2.230E-02	-3.192E-02	-1.041E-01	-1.875E-01	-2.316E-01			
120	1.164E-01	5.628E-02	-1.608E-02	-1.279E-01	-1.980E-01	-2.434E-01	-2.979E-01	-3.409E-01	-3.779E-01	-3.996E-01	-4.270E-01	-4.452E-01			
150	-1.575E-01	-1.697E-01	-1.778E-01	-1.894E-01	-1.979E-01	-2.048E-01	-2.160E-01	-2.291E-01	-2.461E-01	-2.597E-01	-2.819E-01	-3.002E-01			
179	-4.749E-03	-5.161E-03	-5.472E-03	-5.941E-03	-6.229E-03	-6.592E-03	-7.068E-03	-7.624E-03	-8.339E-03	-8.917E-03	-9.862E-03	-1.065E-02			
DEG		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00		
1	3.375E-06	2.203E-06	6.200E-06	7.185E-06	9.425E-06	8.191E-06	9.104E-06	8.607E-06	7.643E-06	5.896E-06	4.836E-06	3.997E-06			
2	5.768E-06	1.267E-05	2.520E-05	3.045E-05	3.013E-05	2.906E-05	2.839E-05	2.761E-05	2.556E-05	2.354E-05	1.818E-05	1.416E-05			
3	1.359E-05	4.621E-05	6.267E-05	5.667E-05	5.311E-05	5.418E-05	5.686E-05	5.667E-05	5.602E-05	5.021E-05	4.082E-05	3.387E-05			
4	5.241E-05	1.058E-04	9.750E-05	7.342E-05	7.161E-05	8.729E-05	9.983E-05	1.055E-04	1.052E-04	9.579E-05	7.857E-05	6.529E-05			
6	2.337E-04	1.993E-04	8.970E-05	6.941E-05	1.218E-04	2.212E-04	2.712E-04	2.633E-04	2.937E-04	2.653E-04	2.155E-04	1.785E-04			
8	3.927E-04	1.188E-04	-3.800E-05	9.563E-05	2.207E-04	5.337E-04	6.365E-04	6.988E-04	6.478E-04	5.722E-04	4.580E-04	3.765E-04			
10	2.917E-04	-1.812E-04	-1.822E-04	3.007E-04	7.088E-04	1.127E-03	1.261E-03	1.279E-03	1.201E-03	1.037E-03	8.169E-04	6.671E-04			
15	-1.331E-03	-1.006E-03	5.420E-04	2.496E-03	3.486E-03	4.111E-03	4.091E-03	3.891E-03	3.412E-03	2.810E-03	2.143E-03	1.726E-03			
20	-2.617E-03	7.041E-04	4.740E-03	7.959E-03	8.974E-03	8.914E-03	8.195E-03	7.442E-03	6.196E-03	4.915E-03	3.650E-03	2.905E-03			
30	9.941E-03	1.936E-02	2.455E-02	2.453E-02	2.205E-02	1.728E-02	1.390E-02	1.155E-02	8.599E-03	6.230E-03	4.307E-03	3.314E-03			
45	6.094E-02	5.547E-02	4.132E-02	2.289E-02	1.153E-02	-1.027E-04	-5.159E-03	-7.501E-03	-9.010E-03	-8.823E-03	-7.487E-03	-6.297E-03			
60	5.037E-02	1.396E-02	-1.958E-02	-4.659E-02	-5.815E-02	-6.495E-02	-6.433E-02	-6.154E-02	-5.476E-02	-4.583E-02	-3.548E-02	-2.878E-02			
75	-7.746E-02	-1.200E-01	-1.502E-01	-1.678E-01	-1.709E-01	-1.641E-01	-1.530E-01	-1.417E-01	-1.221E-01	-1.002E-01	-7.651E-02	-6.172E-02			
90	-2.579E-01	-2.861E-01	-3.029E-01	-3.075E-01	-3.017E-01	-2.818E-01	-2.603E-01	-2.403E-01	-2.065E-01	-1.693E-01	-1.294E-01	-1.044E-01			
120	-4.589E-01	-4.785E-01	-4.969E-01	-5.118E-01	-5.158E-01	-5.071E-01	-4.879E-01	-4.650E-01	-4.180E-01	-3.564E-01	-2.813E-01	-2.305E-01			
150	-3.161E-01	-3.433E-01	-3.769E-01	-4.216E-01	-4.573E-01	-5.104E-01	-5.466E-01	-5.703E-01	-5.917E-01	-5.850E-01	-5.333E-01	-4.729E-01			
179	-1.135E-02	-1.259E-02	-1.421E-02	-1.659E-02	-1.877E-02	-2.274E-02	-2.648E-02	-3.010E-02	-3.709E-02	-4.729E-02	-6.389E-02	-8.023E-02			
DEG		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02		
1	2.764E-06	2.167E-06	1.781E-06	1.311E-06	9.388E-07	6.369E-07	5.184E-07	3.486E-07	2.626E-07	2.106E-07	1.509E-07	1.058E-07			
2	1.039E-05	8.174E-06	6.720E-06	4.959E-06	3.554E-06	2.412E-06	1.825E-06	1.227E-06	9.246E-07	7.416E-07	5.313E-07	3.727E-07			
3	2.694E-05	1.964E-05	1.619E-05	1.195E-05	8.563E-06	5.813E-06	4.399E-06	2.958E-06	2.288E-06	1.787E-06	1.318E-06	8.984E-07			
4	4.816E-05	3.794E-05	3.125E-05	2.306E-05	1.655E-05	1.122E-05	8.493E-06	5.712E-06	4.303E-06	3.451E-06	2.473E-06	1.735E-06			
6	1.312E-04	1.033E-04	8.498E-05	6.266E-05	4.490E-05	3.048E-05	2.306E-05	1.551E-05	1.168E-05	9.371E-06	6.713E-06	4.710E-06			
8	2.751E-04	2.160E-04	1.775E-04	1.308E-04	9.365E-05	6.354E-05	4.807E-05	3.233E-05	2.435E-05	1.935E-05	1.399E-05	9.816E-06			
10	4.847E-04	3.796E-04	3.117E-04	2.294E-04	1.642E-04	1.113E-04	8.423E-05	5.664E-05	4.266E-05	3.422E-05	2.451E-05	1.720E-05			
15	1.239E-03	9.660E-04	7.513E-04	5.810E-04	4.153E-04	2.815E-04	1.629E-04	1.431E-04	1.078E-04	8.646E-05	6.193E-05	4.345E-05			
20	2.065E-03	1.663E-03	1.310E-03	9.603E-04	6.857E-04	4.645E-04	3.512E-04	2.361E-04	1.778E-04	1.426E-04	1.021E-04	7.165E-05			
30	2.287E-03	1.753E-03	1.424E-03	1.038E-03	7.384E-04	4.992E-04	3.772E-04	2.534E-04	1.908E-04	1.530E-04	1.096E-04	7.689E-05			
45	-4.686E-03	-3.704E-03	-3.050E-03	-2.258E-03	-1.520E-03	-1.100E-03	-8.328E-04	-5.602E-04	-4.220E-04	-3.385E-04	-2.425E-04	-1.701E-04			
60	-2.080E-02	-1.626E-02	-1.334E-02	-9.805E-03	-7.014E-03	-4.756E-03	-3.597E-03	-2.412E-03	-1.822E-03	-1.461E-03	-1.047E-03	-7.343E-04			
75	-4.441E-02	-3.465E-02	-2.840E-02	-2.084E-02	-1.492E-02	-1.011E-02	-7.648E-03	-5.149E-03	-3.873E-03	-3.106E-03	-2.225E-03	-1.561E-03			
90	-7.518E-02	-5.867E-02	-4.809E-02	-3.533E-02	-2.527E-02	-1.713E-02	-1.296E-02	-8.710E-03	-6.560E-03	-5.262E-03	-3.769E-03	-2.644E-03			
120	-1.683E-01	-1.321E-01	-1.080E-01	-8.000E-02	-5.730E-02	-3.868E-02	-2.941E-02	-1.978E-02	-1.490E-02	-1.195E-02	-8.561E-03	-6.006E-03			
150	-3.726E-01	-3.026E-01	-2.533E-01	-1.898E-01	-1.377E-01	-9.371E-02	-7.105E-02	-4.785E-02	-3.606E-02	-2.893E-02	-2.073E-02	-1.455E-02			
179	-1.124E-01	-1.440E-01	-1.749E-01	-2.345E-01	-3.160E-01	-4.313E-01	-5.149E-01	-6.004E-01	-6.128E-01	-5.893E-01	-5.116E-01	-4.048E-01			

PA	(91)	SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)	
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02	
1	2.343E-07	-3.165E-07	-1.020E-07	-3.673E-07	2.046E-07	-4.746E-07	-5.947E-07	-1.419E-07	-1.292E-07	5.672E-07	2.344E-07	1.481E-06	
2	3.934E-07	-1.067E-07	4.474E-07	-1.615E-06	-1.358E-06	-1.638E-07	6.046E-07	3.455E-06	5.497E-06	1.898E-06	8.807E-06	1.015E-05	
3	2.010E-06	-3.090E-06	1.108E-06	-2.789E-06	-1.574E-06	7.181E-06	4.245E-06	-5.953E-06	6.126E-06	5.174E-07	2.288E-05	4.147E-06	
4	4.538E-05	1.584E-06	-1.032E-05	1.364E-05	6.180E-06	-1.130E-05	1.202E-05	1.834E-05	-1.674E-05	3.567E-05	8.929E-06	-7.268E-07	
6	-2.609E-05	-1.816E-05	3.311E-05	-4.787E-06	-4.707E-05	6.135E-05	-1.597E-05	-8.476E-06	8.029E-05	6.791E-05	-4.639E-05	1.250E-04	
8	-6.286E-05	4.888E-05	6.473E-05	-2.012E-05	1.263E-04	-1.173E-04	1.575E-04	-1.166E-04	1.988E-04	-1.465E-04	1.323E-04	4.408E-04	
10	-3.783E-07	1.294E-05	-8.888E-05	-2.784E-05	-1.353E-04	7.464E-05	-1.549E-04	2.454E-04	-1.017E-04	-2.927E-04	6.223E-04	7.005E-04	
15	-3.015E-04	3.727E-04	-3.900E-04	-6.750E-04	7.901E-04	-6.824E-04	7.693E-04	-2.008E-04	-4.404E-04	1.541E-03	1.185E-03	-4.695E-04	
20	-8.337E-04	-5.642E-04	-5.156E-04	1.486E-03	-1.778E-03	1.175E-03	2.015E-04	-2.037E-03	3.348E-03	2.907E-03	-2.054E-03	-3.650E-03	
30	3.062E-03	6.851E-04	-6.286E-04	3.638E-03	1.547E-03	-6.308E-03	9.692E-04	9.465E-03	-2.448E-03	-1.027E-02	-7.848E-03	8.005E-04	
45	-1.313E-03	8.504E-03	3.060E-03	-1.115E-02	1.555E-02	2.160E-02	-3.680E-03	-2.767E-02	-1.690E-02	7.077E-03	4.219E-02	5.798E-02	
60	9.800E-03	-2.123E-02	2.224E-02	1.981E-02	-2.602E-02	-4.710E-02	-3.551E-02	1.369E-02	7.403E-02	1.000E-01	1.009E-01	8.020E-02	
75	2.719E-02	2.642E-02	-3.564E-02	-6.169E-02	-2.341E-02	2.185E-02	9.038E-02	1.366E-01	1.315E-01	9.478E-02	1.959E-02	-3.461E-02	
90	-5.085E-02	-6.312E-02	-1.252E-02	8.166E-02	1.353E-01	1.574E-01	1.478E-01	8.485E-02	-2.129E-02	-9.660E-02	-1.844E-01	-2.309E-01	
120	1.228E-01	6.686E-02	-5.774E-03	-1.218E-01	-1.359E-01	-2.441E-01	-3.018E-01	-3.470E-01	-3.855E-01	-4.079E-01	-4.357E-01	-4.541E-01	
150	-1.610E-01	-1.735E-01	-1.818E-01	-1.936E-01	-2.072E-01	-2.093E-01	-2.206E-01	-2.339E-01	-2.510E-01	-2.648E-01	-2.873E-01	-3.058E-01	
179	-4.842E-03	-5.262E-03	-5.576E-03	-6.055E-03	-6.418E-03	-6.717E-03	-7.199E-03	-7.763E-03	-8.489E-03	-9.075E-03	-1.003E-02	-1.083E-02	
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00	
1	4.720E-06	2.949E-06	6.114E-06	8.506E-06	9.477E-06	9.001E-06	9.220E-06	8.709E-06	7.719E-06	6.495E-06	4.922E-06	3.888E-06	
2	6.784E-06	1.171E-05	2.479E-05	3.099E-05	3.100E-05	2.949E-05	2.943E-05	2.763E-05	2.544E-05	2.212E-05	1.699E-05	1.454E-05	
3	1.129E-05	4.537E-05	6.484E-05	5.973E-05	5.460E-05	5.418E-05	5.604E-05	5.673E-05	5.488E-05	4.912E-05	4.001E-05	3.315E-05	
4	4.602E-05	1.059E-04	1.029E-04	7.604E-05	7.130E-05	8.460E-05	9.621E-05	1.017E-04	1.018E-04	9.294E-05	7.643E-05	6.359E-05	
6	2.326E-04	2.163E-04	1.037E-04	6.658E-05	1.124E-04	2.056E-04	2.575E-04	2.785E-04	2.821E-04	2.567E-04	2.097E-04	1.743E-04	
8	4.249E-04	1.554E-04	-3.422E-05	6.716E-05	2.529E-04	4.975E-04	6.065E-04	6.423E-04	6.306E-04	5.607E-04	4.508E-04	3.713E-04	
10	3.665E-04	-1.502E-04	-2.161E-04	2.292E-04	6.347E-04	1.070E-03	1.220E-03	1.242E-03	1.183E-03	1.028E-03	8.128E-04	6.649E-04	
15	-1.304E-03	-1.159E-03	3.055E-04	2.295E-03	3.348E-03	4.062E-03	4.088E-03	3.912E-03	3.453E-03	2.857E-03	2.186E-03	1.762E-03	
20	-2.971E-03	2.001E-04	4.310E-03	7.771E-03	8.951E-03	9.055E-03	8.396E-03	7.663E-03	6.415E-03	5.109E-03	3.805E-03	3.032E-03	
30	8.646E-03	1.879E-02	2.535E-02	2.331E-02	1.839E-02	1.493E-02	1.431E-02	1.250E-02	9.395E-03	6.867E-03	4.783E-03	3.694E-03	
45	6.271E-02	5.862E-02	4.495E-02	2.624E-02	1.445E-02	2.163E-03	-3.13E-03	-5.939E-03	-7.805E-03	-7.915E-03	-6.836E-03	-5.787E-03	
60	5.731E-02	2.007E-02	-1.487E-02	-4.338E-02	-5.377E-02	-6.342E-02	-6.322E-02	-6.066E-02	-5.414E-02	-4.560E-02	-3.518E-02	-2.855E-02	
75	-7.176E-02	-1.165E-01	-1.486E-01	-1.674E-01	-1.710E-01	-1.646E-01	-1.535E-01	-1.423E-01	-1.227E-01	-1.006E-01	-7.685E-02	-6.199E-02	
90	-2.586E-01	-2.862E-01	-3.059E-01	-3.107E-01	-3.050E-01	-2.848E-01	-2.629E-01	-2.426E-01	-2.085E-01	-1.708E-01	-1.305E-01	-1.053E-01	
120	-4.678E-01	-4.874E-01	-5.051E-01	-5.203E-01	-5.240E-01	-5.145E-01	-4.947E-01	-4.712E-01	-4.232E-01	-3.605E-01	-2.843E-01	-2.330E-01	
150	-3.218E-01	-3.494E-01	-3.834E-01	-4.287E-01	-4.648E-01	-5.186E-01	-5.550E-01	-5.788E-01	-6.001E-01	-6.208E-01	-6.399E-01	-6.478E-01	
179	-1.154E-02	-1.260E-02	-1.445E-02	-1.686E-02	-1.906E-02	-2.311E-02	-2.692E-02	-3.059E-02	-3.770E-02	-4.806E-02	-6.493E-02	-8.154E-02	
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02	
1	2.921E-06	2.289E-06	1.788E-06	1.315E-06	9.415E-07	6.387E-07	4.832E-07	3.249E-07	2.448E-07	1.963E-07	1.406E-07	9.866E-08	
2	1.065E-05	8.784E-06	6.880E-06	5.076E-06	3.037E-06	2.468E-07	1.867E-06	1.256E-06	9.460E-07	7.588E-07	5.436E-07	3.813E-07	
3	2.445E-05	1.926E-05	1.580E-05	1.169E-05	8.383E-06	5.691E-06	4.306E-06	2.896E-06	2.182E-06	1.750E-06	1.254E-06	8.795E-07	
4	4.695E-05	3.701E-05	3.049E-05	2.250E-05	1.013E-05	1.095E-05	8.290E-06	5.576E-06	4.200E-06	3.369E-06	2.413E-06	1.693E-06	
6	1.283E-04	1.010E-04	8.711E-05	6.135E-05	4.397E-05	2.985E-05	2.259E-05	1.519E-05	1.144E-05	9.177E-06	6.575E-06	4.612E-06	
8	2.717E-04	2.134E-04	1.753E-04	1.293E-04	9.262E-05	6.285E-05	4.755E-05	3.198E-05	2.409E-05	1.932E-05	1.384E-05	9.710E-06	
10	4.838E-04	3.791E-04	3.114E-04	2.292E-04	1.041E-04	1.113E-04	8.418E-05	5.661E-05	4.264E-05	3.420E-05	2.450E-05	1.719E-05	
15	1.267E-03	9.880E-04	8.095E-04	5.945E-04	4.250E-04	2.881E-04	2.179E-04	1.465E-04	1.103E-04	8.848E-05	6.339E-05	4.447E-05	
20	2.158E-03	1.676E-03	1.370E-03	1.004E-03	7.173E-04	4.859E-04	3.674E-04	2.470E-04	1.860E-04	1.492E-04	1.069E-04	7.496E-05	
30	2.557E-03	1.964E-03	1.596E-03	1.164E-03	8.285E-04	5.602E-04	4.233E-04	2.844E-04	2.142E-04	1.718E-04	1.230E-04	8.630E-05	
45	-4.327E-03	-3.427E-03	-2.830E-03	-2.093E-03	-1.502E-03	-1.021E-03	-7.726E-04	-5.197E-04	-3.915E-04	-3.140E-04	-2.250E-04	-1.578E-04	
60	-2.064E-02	-1.614E-02	-1.324E-02	-9.734E-03	-6.946E-03	-4.722E-03	-3.572E-03	-2.402E-03	-1.809E-03	-1.451E-03	-1.039E-03	-7.291E-04	
75	-4.461E-02	-3.480E-02	-2.852E-02	-2.095E-02	-1.498E-02	-1.016E-02	-7.682E-03	-5.165E-03	-3.890E-03	-3.120E-03	-2.235E-03	-1.568E-03	
90	-7.580E-02	-5.916E-02	-4.849E-02	-3.562E-02	-2.547E-02	-1.727E-02	-1.306E-02	-8.781E-03	-6.614E-03	-5.304E-03	-3.81E-03	-2.666E-03	
120	-1.700E-01	-1.334E-01	-1.097E-01	-8.080E-02	-5.787E-02	-3.927E-02	-2.971E-02	-1.998E-02	-1.505E-02	-1.207E-02	-8.647E-03	-6.066E-03	
150	-3.768E-01	-3.059E-01	-2.560E-01	-1.918E-01	-1.387E-01	-9.467E-02	-7.178E-02	-4.834E-02	-3.643E-02	-2.923E-02	-2.094E-02	-1.469E-02	
179	-1.143E-01	-1.463E-01	-1.776E-01	-2.383E-01	-3.219E-01	-4.380E-01	-5.226E-01	-6.048E-01	-6.208E-01	-5.967E-01	-5.175E-01	-4.092E-01	

U (92)		SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM								ENERGY (MEV)				
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02	
DEG														
1	3.558E-07	-1.788E-07	7.027E-08	5.468E-07	-3.547E-07	-3.565E-07	-1.568E-07	6.232E-07	-1.676E-08	7.288E-07	2.854E-07	2.366E-06		
2	-5.222E-07	2.314E-07	-3.616E-07	-1.526E-06	-1.479E-06	3.715E-07	1.389E-06	4.004E-06	4.751E-06	2.737E-06	8.716E-06	1.059E-05		
3	3.860E-06	-1.921E-06	-1.688E-06	-5.910E-07	1.175E-06	6.175E-06	8.351E-07	-6.715E-06	8.448E-06	-8.212E-07	2.500E-05	7.108E-06		
4	8.094E-06	7.746E-06	-7.692E-06	8.735E-06	-6.910E-07	-5.744E-06	1.872E-05	1.285E-05	-1.709E-05	2.975E-05	1.454E-05	-4.291E-06		
6	-2.271E-05	-1.937E-07	-2.219E-05	-2.394E-05	-4.358E-05	5.987E-05	-3.381E-05	1.045E-05	6.359E-05	8.619E-05	-5.721E-05	1.065E-04		
8	-5.017E-05	7.530E-05	8.750E-05	2.186E-05	1.155E-04	-1.006E-04	1.714E-04	-1.427E-04	2.273E-04	-1.270E-04	8.863E-05	4.358E-04		
10	7.232E-05	-6.211E-05	-1.453E-04	-1.008E-04	-7.136E-05	-6.597E-07	-9.235E-05	1.820E-04	-3.212E-05	-3.379E-04	5.846E-04	7.513E-04		
15	-4.119E-04	2.018E-04	-5.269E-04	-6.799E-04	8.366E-04	5.523E-04	6.090E-04	1.293E-05	-6.497E-04	1.433E-03	1.398E-03	-2.917E-04		
20	-9.944E-04	-9.212E-04	-9.196E-04	1.674E-03	-1.854E-03	7.858E-04	6.614E-04	-2.332E-03	3.190E-03	3.291E-03	-1.738E-03	-3.719E-03		
30	2.525E-03	-4.726E-04	5.393E-04	2.721E-03	2.178E-03	-5.989E-03	-2.616E-04	9.847E-03	-1.283E-03	-1.005E-02	-8.954E-03	-6.111E-04		
45	1.439E-03	6.364E-03	5.982E-03	-1.342E-02	1.371E-02	2.288E-02	-7.152E-04	-2.764E-02	-1.987E-02	3.716E-03	4.043E-02	5.812E-02		
60	1.412E-02	-2.446E-02	1.885E-02	2.458E-02	-2.230E-02	-4.707E-02	-7.999E-02	8.238E-03	7.154E-02	1.010E-01	1.063E-01	8.716E-02		
75	2.248E-02	3.318E-02	-3.068E-02	-6.561E-02	-3.035E-02	1.493E-02	8.652E-02	1.378E-01	1.397E-01	1.052E-01	2.948E-02	-2.664E-02		
90	-4.649E-02	-6.849E-02	-2.021E-02	7.625E-02	1.343E-01	1.607E-01	1.574E-01	9.781E-02	-9.877E-03	-8.829E-02	-1.807E-01	-2.298E-01		
120	1.289E-01	7.765E-02	5.156E-03	-1.150E-01	-1.931E-01	-2.443E-01	-3.055E-01	-3.531E-01	-3.932E-01	-4.162E-01	-4.445E-01	-4.631E-01		
150	-1.645E-01	-1.773E-01	-1.859E-01	-1.979E-01	-2.067E-01	-2.138E-01	-2.253E-01	-2.387E-01	-2.560E-01	-2.700E-01	-2.927E-01	-3.114E-01		
179	-4.936E-03	-5.363E-03	-5.686E-03	-6.170E-03	-6.540E-03	-6.843E-03	-7.333E-03	-7.905E-03	-8.641E-03	-9.235E-03	-1.021E-02	-1.102E-02		
		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00	
DEG														
1	2.634E-06	5.018E-06	3.815E-06	8.446E-06	9.513E-06	9.086E-06	9.338E-06	7.829E-06	7.800E-06	6.553E-06	4.682E-06	4.041E-06		
2	7.270E-06	1.001E-05	2.436E-05	3.143E-05	3.155E-05	2.998E-05	2.968E-05	2.771E-05	2.537E-05	2.199E-05	1.853E-05	1.444E-05		
3	9.278E-06	4.296E-05	6.583E-05	6.219E-05	5.632E-05	5.433E-05	5.539E-05	5.575E-05	5.374E-05	4.806E-05	3.915E-05	3.249E-05		
4	3.936E-05	1.028E-04	1.082E-04	8.053E-05	7.254E-05	8.229E-05	9.281E-05	9.802E-05	9.671E-05	9.003E-05	7.412E-05	6.183E-05		
6	2.284E-04	2.331E-04	1.175E-04	6.561E-05	1.024E-04	1.906E-04	2.424E-04	2.657E-04	2.720E-04	2.491E-04	2.044E-04	1.698E-04		
8	4.551E-04	1.941E-04	-2.410E-05	4.115E-05	2.158E-04	4.600E-04	5.748E-04	6.152E-04	6.110E-04	5.476E-04	4.423E-04	3.651E-04		
10	4.434E-04	-1.103E-04	-2.420E-04	1.571E-04	5.586E-04	1.009E-03	1.174E-03	1.214E-03	1.162E-03	1.015E-03	8.064E-04	6.608E-04		
15	-1.249E-03	-1.298E-03	6.974E-05	2.080E-03	3.192E-03	3.996E-03	4.071E-03	3.922E-03	3.486E-03	2.897E-03	2.224E-03	1.796E-03		
20	-3.298E-03	-3.110E-04	3.863E-03	7.542E-03	8.892E-03	9.171E-03	8.580E-03	7.871E-03	6.627E-03	5.300E-03	3.958E-03	3.158E-03		
30	7.363E-03	1.810E-02	2.483E-02	2.612E-02	2.413E-02	1.950E-02	1.599E-02	1.347E-02	1.022E-02	7.527E-03	5.277E-03	4.088E-03		
45	6.427E-02	6.171E-02	4.860E-02	2.975E-02	1.753E-02	4.568E-03	-1.346E-03	-4.270E-03	-6.514E-03	-6.942E-03	-6.137E-03	-5.238E-03		
60	6.452E-02	2.653E-02	-9.813E-03	-3.989E-02	-5.317E-02	-6.174E-02	-6.197E-02	-5.968E-02	-5.344E-02	-4.490E-02	-3.484E-02	-2.829E-02		
75	-6.552E-02	-1.126E-01	-1.466E-01	-1.668E-01	-1.710E-01	-1.649E-01	-1.540E-01	-1.428E-01	-1.231E-01	-1.010E-01	-7.715E-02	-6.224E-02		
90	-2.589E-01	-2.901E-01	-3.087E-01	-3.139E-01	-3.081E-01	-2.876E-01	-2.654E-01	-2.449E-01	-2.103E-01	-1.723E-01	-1.316E-01	-1.062E-01		
120	-4.768E-01	-4.964E-01	-5.146E-01	-5.289E-01	-5.372E-01	-5.220E-01	-5.015E-01	-4.773E-01	-4.283E-01	-3.646E-01	-2.874E-01	-2.354E-01		
150	-3.277E-01	-3.555E-01	-3.900E-01	-4.359E-01	-4.724E-01	-5.267E-01	-5.635E-01	-5.874E-01	-6.085E-01	-6.006E-01	-5.464E-01	-4.839E-01		
179	-1.174E-02	-1.301E-02	-1.468E-02	-1.714E-02	-1.937E-02	-2.348E-02	-2.735E-02	-3.108E-02	-3.831E-02	-4.884E-02	-6.598E-02	-8.286E-02		
		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02	
DEG														
1	2.901E-06	2.227E-06	1.889E-06	1.391E-06	9.955E-07	6.752E-07	5.108E-07	3.435E-07	2.587E-07	2.075E-07	1.487E-07	1.043E-07		
2	1.056E-05	8.312E-06	6.837E-06	5.040E-06	3.611E-06	2.450E-06	1.854E-06	1.247E-06	9.392E-07	7.533E-07	5.397E-07	3.786E-07		
3	2.392E-05	1.884E-05	1.552E-05	1.146E-05	8.216E-06	5.578E-06	4.219E-06	2.837E-06	2.137E-06	1.714E-06	1.228E-06	8.617E-07		
4	4.569E-05	3.604E-05	2.969E-05	2.192E-05	1.572E-05	1.067E-05	8.076E-06	5.432E-06	4.092E-06	3.282E-06	2.351E-06	1.650E-06		
6	1.252E-04	9.860E-05	8.121E-05	5.992E-05	4.291E-05	2.915E-05	2.207E-05	1.484E-05	1.118E-05	8.967E-06	6.423E-06	4.507E-06		
8	2.676E-04	2.103E-04	1.730E-04	1.275E-04	9.134E-05	6.198E-05	4.690E-05	3.154E-05	2.376E-05	1.905E-05	1.365E-05	9.577E-06		
10	4.815E-04	3.775E-04	3.102E-04	2.283E-04	1.635E-04	1.109E-04	8.390E-05	5.642E-05	4.250E-05	3.408E-05	2.442E-05	1.713E-05		
15	1.292E-03	1.008E-03	8.263E-04	6.069E-04	4.339E-04	2.942E-04	2.225E-04	1.496E-04	1.127E-04	9.036E-05	6.473E-05	4.541E-05		
20	2.250E-03	1.748E-03	1.430E-03	1.048E-03	7.486E-04	5.072E-04	3.835E-04	2.578E-04	1.941E-04	1.557E-04	1.115E-04	7.825E-05		
30	2.839E-03	2.183E-03	1.775E-03	1.295E-03	9.273E-04	6.238E-04	4.714E-04	3.167E-04	2.385E-04	1.913E-04	1.370E-04	9.611E-05		
45	-3.742E-03	-3.130E-03	-2.587E-03	-1.916E-03	-1.376E-03	-9.350E-04	-7.078E-04	-4.762E-04	-3.587E-04	-2.877E-04	-2.062E-04	-1.446E-04		
60	-2.046E-02	-1.600E-02	-1.313E-02	-9.652E-03	-6.905E-03	-4.682E-03	-3.542E-03	-2.381E-03	-1.794E-03	-1.439E-03	-1.031E-03	-7.230E-04		
75	-4.478E-02	-3.494E-02	-2.864E-02	-2.104E-02	-1.504E-02	-1.020E-02	-7.712E-03	-5.185E-03	-3.905E-03	-3.132E-03	-2.244E-03	-1.574E-03		
90	-7.641E-02	-5.963E-02	-4.887E-02	-3.590E-02	-2.567E-02	-1.740E-02	-1.316E-02	-8.850E-03	-6.666E-03	-5.346E-03	-3.830E-03	-2.687E-03		
120	-1.717E-01	-1.348E-01	-1.108E-01	-8.160E-02	-5.844E-02	-3.965E-02	-3.000E-02	-2.017E-02	-1.520E-02	-1.219E-02	-8.731E-03	-6.126E-03		
150	-3.808E-01	-3.091E-01	-2.586E-01	-1.738E-01	-1.401E-01	-9.563E-02	-7.250E-02	-4.863E-02	-3.680E-02	-2.952E-02	-2.115E-02	-1.484E-02		
179	-1.161E-01	-1.487E-01	-1.806E-01	-2.421E-01	-3.270E-01	-4.447E-01	-5.304E-01	-6.172E-01	-6.288E-01	-6.040E-01	-5.234E-01	-4.136E-01		

NP (93)		SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)	
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
DEG													
1	5.074E-07	-3.432E-08	-1.060E-07	-1.739E-07	4.147E-07	-2.524E-07	1.102E-07	2.899E-07	9.286E-08	1.101E-06	3.679E-07	1.133E-06	
2	-9.446E-07	1.356E-06	-8.292E-07	-1.456E-06	-1.950E-06	1.316E-06	2.480E-06	3.651E-06	3.195E-06	3.686E-06	6.621E-06	1.136E-05	
3	2.896E-06	1.819E-06	-3.384E-06	2.428E-06	4.391E-06	4.133E-06	-2.211E-06	-6.316E-06	1.123E-05	-2.749E-06	2.620E-05	8.860E-06	
4	7.048E-06	1.071E-05	-1.158E-06	3.003E-06	-6.816E-06	5.020E-07	2.215E-05	7.178E-06	-1.534E-05	2.349E-05	1.984E-05	-6.935E-06	
6	-7.408E-06	1.893E-05	-3.581E-06	-3.835E-05	-3.249E-05	5.211E-05	-4.813E-05	2.963E-05	4.588E-05	1.030E-04	-6.530E-05	8.572E-05	
8	-1.551E-05	8.088E-05	4.331E-05	6.310E-05	9.068E-05	-7.216E-05	1.735E-04	-1.603E-04	2.499E-04	-1.003E-04	4.475E-05	4.250E-04	
10	1.225E-04	-1.240E-04	-1.747E-04	-1.621E-04	3.602E-06	-7.897E-05	-1.762E-05	1.094E-04	4.417E-05	-3.733E-04	5.362E-04	7.951E-04	
15	-4.189E-04	-1.247E-05	5.935E-04	-6.156E-04	8.247E-04	-3.776E-04	4.148E-04	2.398E-04	-8.471E-04	1.288E-03	1.605E-03	-9.147E-05	
20	-9.649E-04	-1.166E-03	3.641E-04	1.746E-03	-1.870E-03	3.442E-04	1.122E-03	-2.569E-03	2.966E-03	3.645E-03	-1.375E-03	-3.739E-03	
30	1.651E-03	-1.639E-03	1.730E-03	1.638E-03	3.866E-03	-5.460E-03	-1.533E-03	1.015E-02	-3.171E-05	-9.697E-03	-1.001E-02	-2.056E-03	
45	4.224E-03	3.831E-03	8.609E-03	-1.542E-02	1.151E-02	2.379E-02	2.422E-03	-2.278E-02	-2.278E-02	2.190E-04	3.836E-02	5.797E-02	
60	1.808E-02	-2.715E-02	1.480E-02	2.915E-02	-1.807E-02	-4.650E-02	-4.429E-02	2.549E-03	6.854E-02	1.015E-01	1.115E-01	9.422E-02	
75	1.713E-02	3.913E-02	-2.504E-02	-6.909E-02	-3.732E-02	7.684E-03	8.203E-02	1.391E-01	1.476E-01	1.158E-01	3.994E-02	-1.800E-02	
90	-4.125E-02	-7.348E-02	-2.802E-02	7.028E-02	1.325E-01	1.633E-01	1.667E-01	1.111E-01	2.357E-03	-7.915E-02	-1.763E-01	-2.282E-01	
120	1.345E-01	8.860E-02	1.671E-02	-1.074E-01	-1.897E-01	-2.441E-01	-3.089E-01	-3.592E-01	-4.010E-01	-4.247E-01	-4.535E-01	-4.722E-01	
150	-1.680E-01	-1.813E-01	-1.801E-01	-2.031E-01	-2.172E-01	-2.184E-01	-3.011E-01	-2.436E-01	-2.611E-01	-2.753E-01	-2.982E-01	-3.171E-01	
179	-5.031E-03	-5.466E-03	-5.794E-03	-6.288E-03	-6.663E-03	-6.971E-03	-7.468E-03	-8.049E-03	-8.795E-03	-9.397E-03	-1.038E-02	-1.120E-02	
		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
DEG													
1	3.579E-06	5.134E-06	3.710E-06	6.252E-06	9.574E-06	8.388E-06	9.457E-06	8.925E-06	7.569E-06	6.617E-06	4.709E-06	3.846E-06	
2	7.139E-06	9.916E-06	2.348E-05	3.188E-05	2.494E-05	3.154E-05	1.001E-05	2.865E-05	2.535E-05	2.189E-05	1.846E-05	1.514E-05	
3	7.614E-06	4.025E-05	6.644E-05	6.472E-05	5.714E-05	5.472E-05	5.493E-05	5.492E-05	5.268E-05	4.705E-05	3.831E-05	3.179E-05	
4	2.998E-05	1.010E-04	1.132E-04	8.614E-05	7.473E-05	8.043E-05	8.950E-05	9.449E-05	9.477E-05	8.692E-05	7.186E-05	5.993E-05	
6	2.222E-04	2.487E-04	1.338E-04	6.576E-05	9.389E-05	1.756E-04	2.267E-04	2.504E-04	2.592E-04	2.392E-04	1.980E-04	1.649E-04	
8	4.811E-04	2.352E-04	-1.306E-05	1.939E-05	1.783E-04	4.215E-04	5.412E-04	5.880E-04	5.901E-04	5.328E-04	4.325E-04	3.577E-04	
10	5.221E-04	-6.162E-05	-2.632E-04	8.761E-05	4.811E-04	9.432E-04	1.123E-03	1.174E-03	1.136E-03	9.995E-04	7.975E-04	6.548E-04	
15	-1.171E-03	-1.420E-03	-1.554E-04	1.853E-03	3.020E-03	3.913E-03	4.039E-03	3.919E-03	3.509E-03	2.931E-03	2.257E-03	1.825E-03	
20	-3.595E-03	-8.275E-04	3.378E-03	7.272E-03	8.194E-03	9.259E-03	8.743E-03	8.064E-03	6.830E-03	5.485E-03	4.109E-03	3.282E-03	
30	5.996E-03	1.729E-02	2.482E-02	2.683E-02	2.513E-02	2.062E-02	1.706E-02	1.447E-02	1.107E-02	8.210E-03	5.790E-03	4.498E-03	
45	6.561E-02	6.474E-02	5.245E-02	3.340E-02	2.077E-02	7.119E-03	7.476E-04	-2.490E-03	-5.135E-03	-5.899E-03	-5.388E-03	-4.651E-03	
60	7.198E-02	3.336E-02	-4.397E-03	-3.610E-02	-5.073E-02	-5.987E-02	-6.059E-02	-5.857E-02	-5.264E-02	-4.434E-02	-3.445E-02	-2.799E-02	
75	-5.871E-02	-1.083E-01	-1.443E-01	-1.660E-01	-1.108E-01	-1.652E-01	-1.544E-01	-1.432E-01	-1.235E-01	-1.014E-01	-7.742E-02	-6.246E-02	
90	-2.590E-01	-2.918E-01	-3.114E-01	-3.170E-01	-3.112E-01	-2.904E-01	-2.679E-01	-2.471E-01	-2.121E-01	-1.737E-01	-1.326E-01	-1.070E-01	
120	-4.866E-01	-5.055E-01	-5.236E-01	-5.376E-01	-5.404E-01	-5.294E-01	-5.082E-01	-4.834E-01	-4.334E-01	-3.687E-01	-2.904E-01	-2.378E-01	
150	-3.336E-01	-3.618E-01	-3.967E-01	-4.431E-01	-4.800E-01	-5.350E-01	-5.720E-01	-5.960E-01	-6.170E-01	-6.084E-01	-5.529E-01	-4.894E-01	
179	-1.193E-02	-1.323E-02	-1.492E-02	-1.741E-02	-1.968E-02	-2.386E-02	-2.779E-02	-3.158E-02	-3.892E-02	-4.962E-02	-6.704E-02	-8.419E-02	
		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
DEG													
1	2.955E-06	2.239E-06	1.834E-06	1.372E-06	9.892E-07	6.710E-07	5.076E-07	3.413E-07	2.571E-07	2.062E-07	1.477E-07	1.036E-07	
2	1.008E-05	8.411E-06	6.762E-06	5.030E-06	3.570E-06	2.478E-06	1.875E-06	1.261E-06	9.497E-07	7.617E-07	5.457E-07	3.828E-07	
3	2.344E-05	1.847E-05	1.521E-05	1.121E-05	8.076E-06	5.456E-06	4.128E-06	2.777E-06	2.092E-06	1.678E-06	1.202E-06	8.432E-07	
4	4.439E-05	3.502E-05	2.880E-05	2.131E-05	1.578E-05	1.038E-05	7.854E-06	5.283E-06	3.979E-06	3.192E-06	2.287E-06	1.604E-06	
6	1.218E-04	9.598E-05	7.898E-05	5.829E-05	4.180E-05	2.838E-05	2.149E-05	1.444E-05	1.088E-05	8.727E-06	6.522E-06	4.866E-06	
8	2.626E-04	2.066E-04	1.700E-04	1.253E-04	8.979E-05	6.094E-05	4.611E-05	3.101E-05	2.336E-05	1.873E-05	1.342E-05	9.416E-06	
10	4.778E-04	3.749E-04	3.081E-04	2.269E-04	1.627E-04	1.102E-04	8.339E-05	5.607E-05	4.224E-05	3.388E-05	2.427E-05	1.703E-05	
15	1.315E-03	1.027E-03	8.414E-04	6.182E-04	4.421E-04	2.997E-04	2.267E-04	1.524E-04	1.148E-04	9.206E-05	6.452E-05	4.620E-05	
20	2.341E-03	1.820E-03	1.489E-03	1.092E-03	7.797E-04	5.282E-04	3.994E-04	2.685E-04	2.022E-04	1.622E-04	1.162E-04	8.151E-05	
30	3.132E-03	2.410E-03	1.964E-03	1.432E-03	1.020E-03	6.899E-04	5.214E-04	3.503E-04	2.638E-04	1.516E-04	1.063E-04	7.063E-05	
45	-3.529E-03	-2.810E-03	-2.321E-03	-1.725E-03	-1.248E-03	-8.430E-04	-6.383E-04	-4.295E-04	-3.235E-04	-2.595E-04	-1.859E-04	-1.305E-04	
60	-2.025E-02	-1.584E-02	-1.300E-02	-9.557E-03	-6.838E-03	-4.637E-03	-3.507E-03	-2.358E-03	-1.776E-03	-1.425E-03	-1.021E-03	-7.160E-04	
75	-4.494E-02	-3.507E-02	-2.874E-02	-2.111E-02	-1.509E-02	-1.023E-02	-7.739E-03	-5.203E-03	-3.919E-03	-3.143E-03	-2.252E-03	-1.580E-03	
90	-7.700E-02	-6.008E-02	-4.924E-02	-3.617E-02	-2.587E-02	-1.754E-02	-1.320E-02	-8.917E-03	-6.716E-03	-5.387E-03	-3.939E-03	-2.707E-03	
120	-1.734E-01	-1.361E-01	-1.117E-01	-8.239E-02	-5.900E-02	-4.003E-02	-3.029E-02	-2.037E-02	-1.534E-02	-1.231E-02	-8.815E-03	-6.184E-03	
150	-3.849E-01	-3.123E-01	-2.613E-01	-1.957E-01	-1.415E-01	-9.657E-02	-7.321E-02	-4.931E-02	-3.716E-02	-2.991E-02	-2.136E-02	-1.499E-02	
179	-1.180E-01	-1.511E-01	-1.835E-01	-2.459E-01	-3.327E-01	-4.515E-01	-5.381E-01	-6.255E-01	-6.368E-01	-6.112E-01	-5.293E-01	-4.180E-01	

PU (94)	SHERMAN FUNCTION DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM											ENERGY (MEV)
DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	5.337E-07	1.101E-08	-3.381E-07	1.813E-09	-1.734E-07	-1.972E-07	-1.635E-07	-6.438E-09	1.854E-07	9.681E-07	9.327E-07	2.049E-06
2	-5.711E-07	1.319E-06	-1.012E-06	-5.323E-07	-1.449E-06	2.037E-06	3.458E-06	4.143E-06	1.177E-06	4.107E-06	6.895E-06	1.211E-05
3	3.608E-07	3.947E-06	-4.855E-06	5.200E-06	5.807E-06	1.087E-06	-4.093E-06	-5.047E-06	1.371E-05	-4.128E-06	2.793E-05	1.105E-05
4	7.657E-07	8.968E-06	4.920E-06	-3.838E-06	-1.149E-05	7.350E-06	2.296E-05	8.927E-07	-1.223E-05	1.746E-05	2.635E-05	-8.154E-06
6	1.308E-05	3.269E-05	1.672E-05	-6.829E-05	-1.577E-05	3.887E-05	-5.887E-05	5.026E-05	2.647E-05	1.185E-04	-7.031E-05	6.460E-05
8	2.854E-05	6.338E-05	7.807E-05	9.685E-05	5.527E-05	-3.387E-05	1.648E-04	-1.690E-04	2.645E-04	-6.687E-05	-8.441E-07	4.082E-04
10	1.311E-04	-1.570E-04	-1.717E-04	-2.946E-04	8.937E-05	-1.524E-04	6.259E-05	2.909E-05	1.248E-04	-3.978E-04	4.776E-04	8.308E-04
15	-3.156E-04	-2.339E-04	-5.797E-04	-4.872E-04	7.519E-04	-1.681E-04	1.949E-04	4.708E-04	-1.027E-03	1.114E-03	1.801E-03	1.267E-04
20	-7.404E-04	-1.260E-03	4.030E-04	1.692E-03	-1.074E-03	-1.303E-04	1.566E-03	-2.741E-03	2.674E-03	3.958E-03	-9.669E-04	-3.709E-03
30	5.357E-04	-2.713E-03	2.862E-03	4.297E-04	4.914E-03	-4.724E-03	-2.816E-03	1.024E-02	1.295E-03	-9.198E-03	-1.100E-02	-3.523E-03
45	6.852E-04	1.708E-03	1.114E-02	-1.709E-02	8.941E-03	2.430E-02	5.697E-03	-2.659E-02	-2.560E-02	-3.393E-03	3.599E-02	5.750E-02
60	2.149E-02	-2.222E-02	1.040E-02	3.145E-02	-1.377E-02	-4.536E-02	-4.837E-02	3.352E-03	6.502E-02	1.015E-01	1.165E-01	1.013E-01
75	1.121E-02	4.665E-02	-1.873E-02	-7.205E-02	-4.427E-02	1.487E-04	7.693E-02	1.396E-01	1.553E-01	1.266E-01	5.099E-02	-8.837E-03
90	-3.517E-02	-7.804E-02	3.592E-02	6.375E-02	1.300E-01	1.651E-01	1.755E-01	1.247E-01	1.542E-01	-6.914E-02	-1.713E-01	-2.261E-01
120	1.397E-01	9.963E-02	2.885E-02	-9.885E-02	-1.854E-01	-2.432E-01	-1.212E-01	-3.652E-01	-4.088E-01	-4.332E-01	-4.621E-01	-4.814E-01
150	-1.714E-01	-1.853E-01	-1.943E-01	-2.068E-01	-2.154E-01	-2.232E-01	-2.349E-01	-2.486E-01	-2.663E-01	-2.806E-01	-3.038E-01	-3.229E-01
179	-5.124E-03	-5.571E-03	-5.905E-03	-6.466E-03	-6.788E-03	-7.100E-03	-7.605E-03	-8.195E-03	-8.951E-03	-9.561E-03	-1.056E-02	-1.139E-02
DEG	5.0E-02	7.0E-02	1.0E+01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	3.567E-06	5.262E-06	5.902E-06	5.121E-06	9.579E-06	9.963E-06	9.576E-06	9.038E-06	7.980E-06	6.685E-06	5.198E-06	3.869E-06
2	9.623E-06	1.058E-05	2.138E-05	3.305E-05	3.043E-05	3.216E-05	2.763E-05	2.805E-05	2.079E-05	2.536E-05	1.658E-05	1.509E-05
3	6.363E-06	3.730E-05	6.479E-05	6.726E-05	5.990E-05	5.537E-05	5.468E-05	5.424E-05	5.065E-05	4.614E-05	3.749E-05	3.112E-05
4	2.307E-05	9.444E-05	1.190E-04	9.138E-05	7.714E-05	7.905E-05	8.685E-05	9.116E-05	9.436E-05	8.397E-05	6.957E-05	5.807E-05
6	2.127E-04	2.631E-04	1.528E-04	6.874E-05	8.677E-05	1.604E-04	2.119E-04	2.369E-04	2.481E-04	2.306E-04	1.911E-04	1.595E-04
8	5.036E-04	2.757E-04	4.510E-04	-4.175E-07	1.445E-04	3.822E-04	5.061E-04	5.563E-04	5.668E-04	5.159E-04	4.214E-04	3.492E-04
10	5.987E-04	-5.644E-06	-2.754E-04	1.803E-05	4.074E-04	8.740E-04	1.068E-03	1.130E-03	1.106E-03	9.806E-04	7.861E-04	6.467E-04
15	-1.064E-01	-1.524E-03	3.491E-03	1.013E-03	2.831E-03	3.813E-03	1.993E-03	3.993E-03	3.522E-03	2.957E-03	2.285E-03	1.850E-03
20	-1.495E-01	-1.343E-03	2.863E-04	6.961E-03	8.057E-03	9.317E-03	8.884E-03	8.240E-03	7.022E-03	5.663E-03	2.455E-03	3.404E-03
30	4.550E-01	1.635E-02	2.469E-02	2.747E-02	2.610E-02	2.175E-02	1.815E-02	1.549E-02	1.194E-02	8.916E-03	6.322E-03	4.924E-03
45	6.670E-02	6.768E-02	5.430E-02	3.721E-02	2.418E-02	9.823E-03	2.975E-03	-5.921E-02	-3.660E-02	-4.784E-03	4.585E-03	-4.021E-03
60	7.988E-02	4.057E-02	1.997E-03	-3.201E-02	-4.724E-02	-5.782E-02	-5.905E-02	-5.734E-02	-5.175E-02	-4.370E-02	-3.401E-02	-2.764E-02
75	-5.138E-02	-1.035E-01	-1.410E-01	-1.649E-01	-1.774E-01	-1.653E-01	-1.547E-01	-1.435E-01	-1.239E-01	-1.016E-01	-7.765E-02	-6.264E-02
90	-2.584E-01	-2.933E-01	-3.139E-01	-3.200E-01	-3.147E-01	-2.931E-01	-2.704E-01	-2.493E-01	-2.139E-01	-1.751E-01	-1.337E-01	-1.078E-01
120	-4.453E-01	-5.148E-01	-5.727E-01	-5.463E-01	-5.447E-01	-5.369E-01	-5.150E-01	-4.895E-01	-4.385E-01	-3.721E-01	-2.934E-01	-2.402E-01
150	-3.395E-01	-3.681E-01	-4.034E-01	-4.504E-01	-4.877E-01	-5.432E-01	-5.805E-01	-6.047E-01	-6.254E-01	-6.161E-01	-5.594E-01	-4.948E-01
179	-1.213E-02	-1.344E-02	-1.510E-02	-1.769E-02	-1.900E-02	-2.424E-02	-2.823E-02	-3.208E-02	-3.954E-02	-5.040E-02	-6.810E-02	-8.552E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	2.813E-06	2.264E-06	1.813E-06	1.408E-06	1.084E-06	6.836E-07	5.171E-07	3.477E-07	2.619E-07	2.101E-07	1.505E-07	1.056E-07
2	1.101E-04	7.059E-06	6.463E-06	4.765E-06	3.414E-06	2.317E-06	1.753E-06	1.179E-06	8.881E-07	7.123E-07	5.103E-07	3.580E-07
3	2.226E-05	1.807E-05	1.407E-05	1.049E-05	7.847E-06	5.347E-06	4.046E-06	2.721E-06	2.050E-06	1.644E-06	1.178E-06	8.264E-07
4	4.303E-05	3.394E-05	2.801E-05	2.069E-05	1.484E-05	1.007E-05	6.725E-06	5.128E-06	3.863E-06	3.099E-06	2.220E-06	1.557E-06
6	1.194E-04	9.309E-05	7.471E-05	5.664E-05	4.062E-05	2.758E-05	2.087E-05	1.404E-05	1.057E-05	8.482E-06	6.076E-06	4.263E-06
8	2.469E-04	2.022E-04	1.646E-04	1.227E-04	8.797E-05	5.971E-05	4.518E-05	3.039E-05	2.289E-05	1.836E-05	1.315E-05	9.227E-06
10	4.727E-04	3.711E-04	3.051E-04	2.247E-04	1.609E-04	1.092E-04	8.262E-05	5.556E-05	4.185E-05	3.357E-05	2.405E-05	1.687E-05
15	1.335E-03	1.043E-03	8.540E-04	6.289E-04	4.457E-04	3.046E-04	2.304E-04	1.549E-04	1.167E-04	9.357E-05	6.703E-05	4.702E-05
20	2.430E-03	1.840E-03	1.540E-03	1.134E-03	8.107E-04	5.490E-04	4.151E-04	2.791E-04	2.102E-04	1.686E-04	1.208E-04	8.471E-05
30	3.436E-03	2.647E-03	2.152E-03	1.574E-03	1.121E-03	7.587E-04	5.734E-04	3.853E-04	2.901E-04	2.327E-04	1.667E-04	1.169E-04
45	-3.084E-03	-2.468E-03	-2.047E-03	-1.521E-03	-1.004E-03	-7.444E-04	-5.637E-04	-3.793E-04	-2.858E-04	-2.293E-04	-1.643E-04	-1.152E-04
60	-2.802E-02	-1.566E-02	-1.283E-02	-9.449E-03	-6.741E-03	-4.585E-03	-3.468E-03	-2.332E-03	-1.756E-03	-1.409E-03	-1.009E-03	-7.079E-04
75	-4.508E-02	-3.517E-02	-2.882E-02	-2.117E-02	-1.574E-02	-1.026E-02	-7.746E-03	-5.219E-03	-3.931E-03	-3.153E-03	-2.258E-03	-1.584E-03
90	-7.757E-02	-6.053E-02	-4.961E-02	-3.644E-02	-2.806E-02	-1.766E-02	-1.336E-02	-8.982E-03	-6.765E-03	-5.426E-03	-3.847E-03	-2.727E-03
120	-1.751E-01	-1.374E-01	-1.127E-01	-8.517E-02	-5.756E-02	-4.041E-02	-3.057E-02	-2.056E-02	-1.549E-02	-1.242E-02	-8.898E-03	-6.243E-03
150	-3.889E-01	-3.155E-01	-2.439E-01	-1.974E-01	-1.429E-01	-9.751E-02	-7.392E-02	-4.978E-02	-3.752E-02	-3.010E-02	-2.157E-02	-1.513E-02
179	-1.198E-01	-1.535E-01	-1.866E-01	-2.449E-01	-3.372E-01	-4.582E-01	-6.459E-01	-8.339E-01	-6.448E-01	-6.185E-01	-5.351E-01	-4.224E-01

AM	(45)	SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)	
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
DEG													
1		4.184E-07	-6.796E-08	-3.252E-07	4.332E-07	6.374E-07	2.457E-07	4.818E-07	6.577E-08	2.478E-07	-1.473E-07	1.042E-06	2.511E-06
2		6.027E-07	5.411E-07	-1.174E-06	1.251E-06	-6.174E-07	3.130E-06	3.524E-06	3.669E-06	1.161E-06	5.059E-06	4.120E-06	1.331E-05
3		-2.263E-06	4.568E-06	-4.031E-06	6.482E-06	7.067E-06	-1.594E-06	-6.404E-06	-3.768E-06	1.574E-05	-6.738E-06	3.017E-05	1.362E-05
4		-5.981E-06	3.851E-06	1.060E-05	-9.644E-06	-1.530E-05	1.378E-05	2.407E-05	-5.907E-06	-6.461E-06	1.042E-05	3.425E-05	-8.693E-06
6		2.780E-05	3.589E-05	3.392E-05	-4.446E-05	4.739E-05	2.029E-05	-6.426E-05	6.807E-05	5.222E-06	1.310E-04	-7.418E-05	4.365E-05
8		6.250E-05	2.696E-05	4.517E-05	1.180E-04	1.172E-05	1.045E-05	1.429E-04	-1.669E-04	2.704E-04	-2.747E-05	-4.601E-05	3.936E-04
10		9.267E-05	-1.517E-04	-1.737E-04	-2.196E-04	1.599E-04	-2.145E-04	1.436E-04	-5.459E-05	2.071E-04	-4.085E-04	4.095E-04	8.573E-04
15		-1.245E-04	-4.219E-04	-4.828E-04	-3.027E-04	6.187E-04	6.255E-05	-4.198E-05	7.005E-04	-1.183E-03	9.126E-04	1.983E-03	3.613E-04
20		-3.570E-04	-1.183E-03	1.180E-03	1.511E-03	-1.420E-03	-6.182E-04	1.977E-03	-2.837E-03	2.319E-03	4.227E-03	-5.164E-04	-3.624E-03
30		-6.967E-04	-3.548E-03	3.850E-03	-8.505E-04	5.831E-03	-3.795E-03	-4.079E-03	1.014E-02	2.683E-03	-8.553E-03	-1.191E-02	-5.001E-03
45		9.132E-03	-1.982E-03	1.736E-02	-1.835E-02	6.114E-03	-2.438E-02	9.065E-03	-2.554E-02	-2.828E-02	-7.101E-03	3.332E-02	5.669E-02
60		2.419E-02	-3.055E-02	5.537E-03	3.737E-02	-8.216E-03	-4.361E-02	-5.219E-02	-9.431E-03	6.099E-02	1.009E-01	1.212E-01	1.085E-01
75		4.842E-01	4.961E-02	-1.182E-02	-7.443E-02	-5.115E-02	-7.640E-02	7.123E-02	1.395E-01	1.626E-01	1.375E-01	6.262E-02	1.065E-03
90		-2.827E-02	-8.210E-02	-4.785E-02	5.669E-02	1.248E-01	1.662E-01	1.839E-01	1.385E-01	2.933E-02	-5.819E-02	-1.656E-01	-2.235E-01
120		-1.443E-01	1.107E-01	4.150E-02	-8.939E-02	-1.806E-01	-2.418E-01	-3.150E-01	-3.712E-01	-4.167E-01	-4.419E-01	-4.735E-01	-4.908E-01
150		-1.752E-01	-1.894E-01	-1.980E-01	-2.113E-01	-2.205E-01	-2.280E-01	-2.399E-01	-2.538E-01	-2.716E-01	-2.860E-01	-3.095E-01	-3.280E-01
179		-5.226E-03	-5.677E-03	-6.017E-03	-6.527E-03	-6.915E-03	-7.232E-03	-7.745E-03	-8.343E-03	-9.110E-03	-9.728E-03	-1.074E-02	-1.158E-02
		5.0E-02	7.6E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+01	1.5E+00	2.0E+00
DEG													
1		2.421E-06	5.398E-06	5.867E-06	8.182E-06	9.526E-06	1.006E-05	8.391E-06	9.153E-06	8.076E-06	6.759E-06	5.250E-06	4.269E-06
2		9.502E-06	9.126E-06	2.222E-05	3.275E-05	3.179E-05	2.964E-05	2.996E-05	2.833E-05	2.547E-05	2.181E-05	1.728E-05	1.419E-05
3		5.574E-06	3.413E-05	6.671E-05	6.979E-05	6.276E-05	5.593E-05	5.465E-05	5.374E-05	5.084E-05	4.524E-05	3.672E-05	3.046E-05
4		1.653E-05	9.741E-05	1.242E-04	9.704E-05	7.972E-05	7.818E-05	8.438E-05	8.807E-05	8.836E-05	8.111E-05	6.726E-05	5.620E-05
6		2.000E-04	2.760E-04	1.704E-04	7.478E-05	7.909E-05	1.466E-04	1.966E-04	2.211E-04	2.343E-04	2.197E-04	1.831E-04	1.532E-04
8		5.201E-04	3.202E-04	2.680E-05	-1.702E-05	1.098E-04	3.452E-04	4.673E-04	5.248E-04	5.424E-04	4.981E-04	4.089E-04	3.397E-04
10		6.750E-04	5.799E-05	-2.805E-04	-4.329E-05	3.238E-04	8.013E-04	1.008E-03	1.082E-03	1.072E-03	9.581E-04	7.720E-04	6.364E-04
15		-9.333E-04	-1.607E-03	-6.281E-04	1.364E-03	2.625E-03	3.695E-03	3.930E-03	3.873E-03	3.523E-03	2.974E-03	2.307E-03	1.871E-03
20		-4.080E-03	-1.854E-03	2.322E-03	6.606E-03	8.478E-03	9.343E-03	9.000E-03	8.397E-03	7.201E-03	5.836E-03	4.397E-03	3.522E-03
30		3.034E-03	1.529E-02	2.423E-02	2.804E-02	2.702E-02	2.877E-02	1.926E-02	1.653E-02	1.284E-02	9.645E-03	6.872E-03	5.365E-03
45		6.752E-02	7.051E-02	6.020E-02	4.116E-02	2.776E-02	1.269E-02	5.243E-03	1.430E-03	-2.086E-03	-3.591E-03	-3.726E-03	-3.346E-03
60		8.760E-02	4.815E-02	7.587E-03	-2.159E-02	-4.387E-02	-5.556E-02	-5.736E-02	-5.597E-02	-5.076E-02	-4.298E-02	-3.351E-02	-2.726E-02
75		-4.323E-02	-9.818E-02	-1.386E-01	-1.636E-01	-1.097E-01	-1.652E-01	-1.548E-01	-1.438E-01	-1.241E-01	-1.019E-01	-7.784E-02	-6.280E-02
90		-2.578E-01	-2.944E-01	-3.162E-01	-3.228E-01	-3.171E-01	-2.958E-01	-2.727E-01	-2.514E-01	-2.156E-01	-1.765E-01	-1.346E-01	-1.086E-01
120		-5.047E-01	-5.241E-01	-5.418E-01	-5.550E-01	-5.571E-01	-5.444E-01	-5.217E-01	-4.956E-01	-4.436E-01	-3.767E-01	-2.964E-01	-2.425E-01
150		-3.456E-01	-3.744E-01	-4.102E-01	-4.577E-01	-4.955E-01	-5.515E-01	-5.891E-01	-6.133E-01	-6.339E-01	-6.239E-01	-5.659E-01	-5.003E-01
179		-1.233E-02	-1.366E-02	-1.541E-02	-1.797E-02	-2.030E-02	-2.462E-02	-2.867E-02	-3.258E-02	-4.016E-02	-5.119E-02	-6.916E-02	-8.685E-02
		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
DEG													
1		2.831E-06	2.218E-06	1.821E-06	1.341E-06	9.597E-07	6.510E-07	4.925E-07	3.312E-07	2.494E-07	2.001E-07	1.433E-07	1.005E-07
2		1.098E-05	8.617E-06	7.082E-06	5.216E-06	3.735E-06	2.534E-06	1.917E-06	1.289E-06	9.712E-07	7.790E-07	5.580E-07	3.915E-07
3		2.245E-05	1.769E-05	1.457E-05	1.075E-05	7.708E-06	5.233E-06	3.960E-06	2.663E-06	2.006E-06	1.609E-06	1.153E-06	8.088E-07
4		4.164E-05	3.288E-05	2.710E-05	2.002E-05	1.436E-05	9.752E-06	7.380E-06	4.964E-06	3.740E-06	3.000E-06	2.149E-06	1.508E-06
6		1.136E-04	8.968E-05	7.394E-05	5.461E-05	3.917E-05	2.660E-05	2.013E-05	1.354E-05	1.020E-05	8.181E-06	5.861E-06	4.112E-06
8		2.504E-04	1.972E-04	1.624E-04	1.198E-04	8.388E-05	5.830E-05	4.411E-05	2.967E-05	2.235E-05	1.793E-05	1.284E-05	9.009E-06
10		4.660E-04	3.661E-04	3.011E-04	2.219E-04	1.589E-04	1.078E-04	8.159E-05	5.487E-05	4.133E-05	3.315E-05	2.375E-05	1.666E-05
15		1.352E-03	1.056E-03	8.662E-04	6.367E-04	4.554E-04	3.088E-04	2.336E-04	1.570E-04	1.183E-04	8.486E-05	6.796E-05	4.768E-05
20		2.518E-03	1.959E-03	1.603E-03	1.176E-03	8.402E-04	5.693E-04	4.305E-04	2.894E-04	2.180E-04	1.748E-04	1.252E-04	8.785E-05
30		3.751E-03	2.842E-03	2.356E-03	1.721E-03	1.227E-03	8.300E-04	6.274E-04	4.216E-04	3.175E-04	2.546E-04	1.824E-04	1.279E-04
45		-2.611E-03	-2.101E-03	-1.740E-03	-1.302E-03	-9.381E-04	-6.387E-04	-4.838E-04	-3.256E-04	-2.454E-04	-1.968E-04	-1.410E-04	-9.894E-05
60		-1.975E-02	-1.545E-02	-1.268E-02	-9.326E-03	-6.073E-03	-4.526E-03	-3.423E-03	-2.302E-03	-1.734E-03	-1.391E-03	-9.962E-04	-6.989E-04
75		-4.519E-02	-3.526E-02	-2.890E-02	-2.123E-02	-1.518E-02	-1.029E-02	-7.782E-03	-5.232E-03	-3.941E-03	-3.161E-03	-2.264E-03	-1.588E-03
90		-7.813E-02	-6.096E-02	-4.996E-02	-3.670E-02	-2.604E-02	-1.779E-02	-1.345E-02	-9.045E-03	-6.813E-03	-5.464E-03	-3.914E-03	-2.746E-03
120		-1.768E-01	-1.387E-01	-1.140E-01	-8.394E-02	-6.011E-02	-4.078E-02	-3.086E-02	-2.075E-02	-1.563E-02	-1.254E-02	-8.980E-03	-6.300E-03
150		-3.929E-01	-3.186E-01	-2.665E-01	-1.996E-01	-1.473E-01	-9.844E-02	-7.463E-02	-5.026E-02	-3.788E-02	-3.039E-02	-2.177E-02	-1.528E-02
179		-1.217E-01	-1.558E-01	-1.893E-01	-2.536E-01	-3.473E-01	-4.650E-01	-5.536E-01	-6.422E-01	-6.527E-01	-6.257E-01	-5.409E-01	-4.267E-01

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	2.545E-02	-1.878E-07	-4.041E-07	-3.780E-07	-1.377E-07	-2.986E-07	2.570E-07	7.806E-07	1.199E-06	-2.823E-07	2.971E-06	2.444E-06
2	1.282E-06	-5.022E-07	-1.498E-07	2.168E-06	8.670E-07	2.789E-06	7.091E-06	2.781E-06	-4.677E-08	5.445E-07	2.834E-06	1.367E-05
3	-3.143E-06	2.803E-05	6.723E-06	6.723E-06	7.598E-06	-4.748E-06	-7.371E-06	-2.168E-07	1.725E-05	-6.847E-06	2.890E-05	1.650E-05
4	-8.797E-06	3.926E-06	1.317E-05	-1.394E-05	1.450E-05	1.881E-05	2.135E-05	-1.210E-05	4.600E-07	3.172E-06	4.099E-05	-8.447E-06
6	2.882E-05	2.673E-05	4.237E-05	-3.388E-05	2.621E-05	-1.369E-06	-2.209E-05	8.203E-05	-1.617E-05	1.399E-04	-7.083E-05	2.169E-05
8	7.125E-05	1.873E-05	1.974E-05	1.214E-04	3.922E-05	5.816E-05	1.122E-04	-1.540E-04	2.675E-04	1.612E-05	8.962E-05	3.348E-04
10	1.913E-05	-1.071E-04	-6.781E-04	-2.051E-04	2.334E-04	-2.597E-04	2.210E-04	-1.373E-04	2.882E-04	-0.052E-04	3.328E-04	8.734E-04
15	1.095E-04	-9.508E-04	-3.124E-04	-7.41E-05	4.335E-04	3.037E-04	-8.859E-04	9.208E-04	-1.309E-03	6.871E-04	2.147E-03	6.089E-04
20	1.175E-04	-9.353E-04	1.449E-03	1.208E-03	1.065E-03	1.095E-03	2.338E-03	-2.850E-03	1.904E-03	6.442E-03	2.728E-05	-3.484E-03
30	-1.896E-03	-4.206E-03	6.365E-03	-2.143E-03	6.568E-03	2.391E-03	-5.292E-03	9.847E-03	4.114E-03	-7.760E-03	-2.728E-05	-6.480E-03
45	1.089E-02	-5.400E-03	1.517E-02	1.916E-02	3.016E-02	2.399E-02	1.240E-02	-2.411E-02	-3.082E-02	-1.088E-02	3.033E-02	5.554E-02
60	2.605E-02	-3.108E-02	3.581E-04	4.082E-02	-2.865E-03	4.124E-02	-5.569E-02	1.565E-02	5.645E-02	9.979E-02	1.256E-01	1.156E-01
75	-2.017E-02	-8.591E-02	-4.376E-02	7.618E-02	-5.740E-02	1.564E-02	6.494E-02	1.385E-01	1.695E-01	1.484E-01	7.842E-02	1.167E-02
90	-2.051E-02	-8.591E-02	-5.177E-02	7.618E-02	1.242E-01	1.665E-01	1.918E-01	1.525E-01	4.409E-02	-4.628E-02	-1.590E-01	-2.020E-01
120	1.484E-01	1.216E-01	5.477E-02	-7.896E-02	1.748E-01	-2.345E-01	-3.175E-01	-3.770E-01	-4.247E-01	-4.507E-01	-4.812E-01	-5.003E-01
150	-1.789E-01	1.935E-01	-2.030E-01	-2.180E-01	-2.254E-01	-2.329E-01	-4.450E-01	-2.590E-01	-2.770E-01	-2.916E-01	-3.152E-01	-3.348E-01
179	-5.355E-03	-5.785E-03	-6.131E-03	-6.650E-03	-7.044E-03	-7.366E-03	-7.887E-03	-8.493E-03	-9.271E-03	-9.897E-03	-1.092E-02	-1.178E-02
DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	2.295E-06	5.537E-06	5.844E-06	8.072E-06	7.469E-06	1.014E-05	9.461E-06	9.268E-06	8.176E-06	6.837E-06	5.305E-06	4.312E-06
2	1.044E-05	6.875E-06	6.023E-05	3.240E-05	3.444E-05	3.251E-05	3.043E-05	2.952E-05	2.561E-05	2.184E-05	1.725E-05	1.415E-05
3	5.292E-06	3.083E-05	6.622E-05	7.149E-05	6.464E-05	5.722E-05	5.480E-05	5.344E-05	5.015E-05	4.442E-05	3.599E-05	2.984E-05
4	9.557E-06	9.024E-05	1.261E-04	1.031E-04	8.376E-05	7.788E-05	4.211E-05	8.525E-05	5.822E-05	7.815E-05	6.482E-05	5.431E-05
6	1.849E-04	2.684E-04	1.913E-04	8.233E-05	7.830E-05	1.335E-04	1.813E-04	2.063E-04	2.212E-04	2.092E-04	1.754E-04	1.471E-04
8	5.318E-04	3.684E-04	5.377E-05	-2.958E-05	7.845E-05	3.053E-04	4.296E-04	4.912E-04	5.158E-04	4.784E-04	3.950E-04	3.291E-04
10	7.499E-04	1.289E-04	-2.745E-04	-1.032E-04	2.452E-04	7.256E-04	9.446E-04	1.029E-03	1.034E-03	9.321E-04	7.553E-04	6.240E-04
15	-7.772E-04	-1.669E-03	-8.496E-04	1.104E-03	2.404E-03	3.559E-03	3.850E-03	3.827E-03	3.513E-03	2.994E-03	2.323E-03	1.887E-03
20	-4.266E-03	-2.317E-02	1.759E-03	6.210E-03	8.255E-03	9.333E-03	9.089E-03	8.527E-03	7.366E-03	5.994E-03	4.533E-03	3.636E-03
30	1.654E-01	7.318E-02	2.408E-02	4.851E-02	2.789E-02	2.398E-02	7.303E-02	1.588E-02	1.376E-02	1.040E-02	7.441E-03	5.822E-03
45	6.803E-02	5.611E-02	6.419E-02	4.526E-02	3.151E-02	1.572E-02	7.859E-02	3.582E-02	-4.068E-02	-3.316E-02	-2.807E-02	-2.624E-02
60	9.572E-02	5.611E-02	1.419E-01	-2.281E-02	-4.071E-02	-5.309E-02	-5.549E-02	-5.466E-02	-4.965E-02	-4.218E-02	-3.295E-02	-2.683E-02
75	-3.449E-02	-9.229E-02	-1.351E-01	-1.619E-01	1.689E-01	-1.650E-01	-1.549E-01	-1.439E-01	-1.243E-01	-1.029E-01	-7.798E-02	-6.291E-02
90	-2.546E-01	-2.953E-01	3.184E-01	-3.255E-01	3.199E-01	-2.983E-01	-1.750E-01	-2.534E-01	-2.173E-01	-1.778E-01	-1.356E-01	-1.093E-01
120	-5.142E-01	-5.336E-01	-5.111E-01	-6.39E-01	-5.634E-01	-5.519E-01	-2.894E-01	-5.017E-01	-4.486E-01	-3.807E-01	-2.993E-01	-2.449E-01
150	-3.518E-01	-3.809E-01	-4.171E-01	-6.51E-01	-5.977E-01	-5.598E-01	-6.977E-01	-6.220E-01	-6.423E-01	-6.316E-01	-5.723E-01	-5.056E-01
179	-1.254E-02	-1.388E-02	-1.565E-02	-1.825E-02	-2.062E-02	-2.500E-02	-2.912E-02	-3.309E-02	-4.078E-02	-5.198E-02	-7.023E-02	-8.820E-02
DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0F+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	3.124E-06	2.445E-06	2.006E-06	1.350E-06	9.642E-07	6.554E-07	4.958E-07	3.334E-07	2.51E-07	2.014E-07	1.443E-07	1.012E-07
2	1.033E-05	8.112E-06	7.089E-06	5.206E-06	3.728E-06	2.529E-06	1.913E-06	1.287E-06	9.691E-07	7.773E-07	5.68E-07	3.906E-07
3	2.199E-05	1.732E-05	1.429E-05	1.053E-05	7.544E-06	5.123E-06	3.877E-06	2.607E-06	1.964E-06	1.575E-06	1.129E-06	7.918E-07
4	4.027E-05	3.181E-05	2.622E-05	1.937E-05	1.390E-05	9.438E-06	7.143E-06	4.805E-06	3.619E-06	2.903E-06	2.040E-06	1.454E-06
6	1.093E-04	8.634E-05	6.343E-05	5.262E-05	3.775E-05	2.564E-05	1.940E-05	1.305E-05	9.832E-06	7.846E-06	5.650E-06	3.963E-06
8	2.438E-04	1.916E-04	1.579E-04	1.165E-04	8.352E-05	5.670E-05	4.291E-05	2.866E-05	2.174E-05	1.744E-05	1.249E-05	8.764E-06
10	4.578E-04	3.599E-04	2.961E-04	2.183E-04	1.364E-04	1.061E-04	4.300E-05	5.000E-05	4.068E-05	3.263E-05	2.337E-05	1.640E-05
15	1.355E-03	1.067E-03	8.755E-04	6.436E-04	4.805E-04	3.122E-04	2.362E-04	1.588E-04	1.196E-04	9.593E-05	6.872E-05	4.821E-05
20	2.025E-03	2.252E-03	1.659E-03	1.216E-03	8.692E-04	5.590E-04	4.454E-04	2.955E-04	2.255E-04	1.809E-04	1.296E-04	9.090E-05
30	4.078E-03	3.147E-03	2.565E-03	1.874E-03	1.334E-03	9.041E-04	6.834E-04	4.592E-04	3.458E-04	2.773E-04	1.987E-04	1.394E-04
45	-1.103E-01	-1.708E-01	-1.247E-02	-9.187E-03	-7.709E-03	-5.255E-03	-9.82E-04	-2.681E-04	-2.021E-04	-1.621E-04	-1.161E-04	-8.149E-05
60	-1.945E-02	-2.333E-02	-2.895E-02	-2.127E-02	-1.571E-02	-1.031E-02	-7.798E-03	-5.242E-03	-3.748E-03	-3.167E-03	-2.269E-03	-1.592E-03
75	-7.586E-02	-6.137E-02	-5.630E-02	-3.694E-02	-2.642E-02	-1.791E-02	-1.354E-02	-9.106E-03	-6.588E-03	-5.015E-03	-3.941E-03	-2.764E-03
90	-1.784E-01	-1.404E-01	-1.150E-01	-8.470E-02	-6.064E-02	-4.115E-02	-2.113E-02	-9.094E-03	-1.575E-02	-1.265E-02	-9.061E-03	-6.357E-03
120	-3.969E-01	-3.218E-01	-2.694E-01	-2.014E-01	-1.454E-01	-9.936E-02	-7.532E-02	-5.073E-02	-3.823E-02	-3.067E-02	-2.198E-02	-1.542E-02
150	-1.236E-01	-1.542E-01	-1.922E-01	-2.575E-01	-3.475E-01	-4.717E-01	-6.614E-01	-6.506E-01	-6.606E-01	-6.393E-01	-5.467E-01	-4.510E-01

BK	(97)	SHEMMA FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)			
		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02		
DEG															
1	-9.004E-03	-2.255E-07	-5.535E-07	2.449E-08	5.418E-07	-4.353E-07	6.912E-08	7.647E-08	2.471E-07	-1.791E-07	9.028E-07	5.002E-07			
2	9.798E-07	-1.291E-06	1.147E-06	2.613E-06	1.801E-06	1.727E-06	2.291E-06	1.576E-06	1.143E-06	7.242E-06	3.144E-06	1.303E-05			
3	-1.288E-04	-3.063E-07	2.838E-06	4.662E-06	5.991E-06	-6.149E-06	-7.173E-06	2.941E-06	1.745E-05	-5.723E-06	2.839E-05	1.799E-05			
4	-6.106E-06	-9.264E-06	1.054E-05	-1.349E-05	-1.231E-05	2.157E-05	1.597E-05	-1.850E-05	5.966E-06	-2.837E-06	4.590E-05	-6.829E-05			
6	1.555E-05	7.174E-06	4.081E-05	-1.627E-05	4.452E-05	-2.263E-05	-5.470E-05	9.428E-05	-3.668E-05	1.454E-04	-6.452E-05	-9.10E-08			
8	5.075E-05	-6.058E-05	-4.555E-05	1.060E-04	-7.840E-05	1.010E-04	7.027E-05	-1.308E-04	2.549E-04	6.249E-05	-1.306E-04	3.192E-04			
10	-6.439E-05	-3.235E-05	1.580E-05	-1.607E-04	2.670E-04	-2.837E-04	2.885E-04	-2.154E-04	3.652E-04	-3.868E-04	2.484E-04	8.769E-04			
15	3.269E-04	-5.653E-04	-8.720E-05	1.677E-04	2.070E-04	5.400E-04	-5.233E-04	1.10E-03	-1.403E-03	4.411E-04	2.289E-03	8.674E-04			
20	5.925E-04	-5.448E-04	1.676E-03	8.016E-04	-1.271E-04	-1.536E-03	2.631E-03	-2.778E-03	1.435E-03	4.596E-03	4.955E-04	-3.287E-03			
30	-2.912E-03	-4.470E-03	5.133E-03	-3.387E-03	7.089E-03	-1.437E-03	-6.420E-03	9.356E-03	5.569E-03	-6.819E-03	-1.345E-02	-7.947E-03			
45	1.197E-02	-7.917E-03	1.647E-02	-1.947E-02	-2.772E-04	2.314E-02	1.589E-02	-2.233E-02	-3.317E-02	-1.470E-02	2.705E-02	5.402E-02			
60	2.695E-02	-3.075E-02	-5.037E-03	4.371E-02	3.224E-03	-3.824E-02	-5.883E-02	-2.199E-02	5.140E-02	9.803E-02	1.296E-01	1.227E-01			
75	-8.801E-03	5.742E-02	3.423E-03	-7.723E-02	-6.447E-02	-2.382E-02	5.806E-02	1.368E-01	1.759E-01	1.593E-01	8.760E-02	2.301E-02			
90	-1.226E-02	-8.843E-02	-5.962E-02	4.107E-02	1.181E-01	1.059E-01	1.989E-01	1.666E-01	5.969E-02	-3.334E-02	-1.517E-01	-2.164E-01			
120	1.518E-01	1.325E-01	6.843E-02	-6.751E-02	-1.670E-01	-2.367E-01	-1.196E-01	-3.827E-01	-4.327E-01	-4.595E-01	-4.906E-01	-5.100E-01			
150	-1.826E-01	-1.977E-01	-2.075E-01	-2.207E-01	-2.301E-01	-2.379E-01	-2.501E-01	-2.643E-01	-2.825E-01	-2.972E-01	-3.211E-01	-3.408E-01			
179	-5.426E-03	-5.895E-03	-6.247E-03	-6.774E-03	-7.175E-03	-7.503E-03	-8.031E-03	-8.646E-03	-9.434E-03	-1.007E-02	-1.111E-02	-1.197E-02			
DEG		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00		
1	3.472E-06	4.147E-06	5.852E-06	7.955E-06	7.367E-06	8.536E-06	9.272E-06	9.383E-06	7.353E-06	6.209E-06	5.365E-06	4.359E-06			
2	1.068E-05	7.447E-06	1.940E-05	3.327E-05	3.497E-05	3.100E-05	3.100E-05	2.995E-05	2.581E-05	2.191E-05	1.726E-05	1.413E-05			
3	3.852E-06	2.744E-05	6.531E-05	7.381E-05	6.190E-05	5.848E-05	5.542E-05	5.334E-05	4.958E-05	4.369E-05	3.536E-05	2.926E-05			
4	3.687E-04	8.487E-05	1.312E-04	1.094E-04	8.868E-05	7.867E-05	8.044E-05	8.235E-05	8.226E-05	7.535E-05	6.263E-05	5.232E-05			
6	1.680E-04	2.962E-04	2.104E-04	4.137E-05	7.347E-05	1.214E-04	1.667E-04	1.927E-04	2.080E-04	1.984E-04	1.673E-04	1.407E-04			
8	5.376E-04	4.142E-04	8.530E-05	-3.793E-05	4.954E-05	2.654E-04	3.909E-04	4.561E-04	4.882E-04	4.569E-04	3.799E-04	3.173E-04			
10	8.197E-04	2.065E-04	-2.630E-04	-1.585E-04	1.677E-04	6.471E-04	9.771E-04	9.717E-04	9.923E-04	9.026E-04	7.357E-04	6.094E-04			
15	-5.958E-04	-1.708E-03	-1.060E-03	8.353E-04	2.147E-03	3.405E-03	3.753E-03	3.766E-03	3.490E-03	2.982E-03	2.331E-03	1.897E-03			
20	-4.393E-03	-2.847E-03	1.167E-03	5.771E-03	7.987E-03	9.285E-03	9.149E-03	8.643E-03	7.514E-03	6.144E-03	4.661E-03	3.744E-03			
30	-1.803E-04	1.280E-02	2.951E-02	2.888E-02	2.671E-02	2.508E-02	2.150E-02	1.866E-02	1.470E-02	1.117E-02	8.027E-03	6.293E-03			
45	6.821E-02	7.588E-02	6.806E-02	4.950E-02	3.541E-02	1.892E-02	1.053E-02	5.872E-03	1.385E-03	-9.542E-04	-1.825E-03	-1.851E-03			
60	1.048E-01	6.446E-02	2.123E-02	-1.766E-02	-3.674E-02	-5.039E-02	-5.343E-02	-5.280E-02	-4.843E-02	-4.129E-02	-3.233E-02	-2.634E-02			
75	-2.502E-02	-6.580E-02	-1.312E-01	-1.600E-01	-1.678E-01	-1.647E-01	-1.547E-01	-1.439E-01	-1.244E-01	-1.022E-01	-7.808E-02	-6.300E-02			
90	-2.549E-01	-2.458E-01	-3.702E-01	-3.281E-01	-3.225E-01	-3.008E-01	-2.772E-01	-2.554E-01	-2.189E-01	-1.790E-01	-1.365E-01	-1.101E-01			
120	-5.239E-01	-5.432E-01	-5.604E-01	-5.727E-01	-5.734E-01	-5.544E-01	-5.351E-01	-5.077E-01	-4.536E-01	-3.846E-01	-3.022E-01	-2.472E-01			
150	-3.580E-01	-3.875E-01	-4.240E-01	-4.724E-01	-5.111E-01	-5.682E-01	-6.663E-01	-8.307E-01	-6.508E-01	-6.394E-01	-5.787E-01	-5.110E-01			
179	-1.274E-02	-1.411E-02	-1.590E-02	-1.854E-02	-2.094E-02	-2.538E-02	-2.950E-02	-3.360E-02	-4.141E-02	-5.278E-02	-7.131E-02	-8.955E-02			
DEG		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02		
1	3.157E-06	2.470E-06	2.027E-06	1.491E-06	1.067E-06	7.234E-07	5.472E-07	3.679E-07	2.771E-07	2.223E-07	1.592E-07	1.117E-07			
2	1.031E-05	8.089E-06	6.449E-06	4.897E-06	3.507E-06	2.380E-06	1.800E-06	1.211E-06	9.120E-07	7.315E-07	5.240E-07	3.676E-07			
3	2.155E-05	1.697E-05	1.398E-05	1.031E-05	7.397E-06	5.019E-06	3.798E-06	2.554E-06	1.924E-06	1.543E-06	1.106E-06	7.750E-07			
4	3.890E-05	3.073E-05	2.534E-05	1.872E-05	1.347E-05	9.122E-06	6.904E-06	4.644E-06	3.498E-06	2.806E-06	2.010E-06	1.410E-06			
6	1.047E-04	8.281E-05	6.843E-05	5.050E-05	3.024E-05	2.661E-05	1.863E-05	1.253E-05	9.441E-06	7.572E-06	5.425E-06	3.806E-06			
8	2.349E-04	1.853E-04	1.627E-04	1.128E-04	8.088E-05	5.492E-05	4.156E-05	2.795E-05	2.106E-05	1.689E-05	1.210E-05	8.489E-06			
10	4.480E-04	3.525E-04	2.901E-04	2.139E-04	1.537E-04	1.040E-04	7.872E-05	5.294E-05	3.988E-05	3.199E-05	2.292E-05	1.608E-05			
15	1.375E-03	1.076E-03	8.823E-04	6.488E-04	4.647E-04	3.148E-04	2.381E-04	1.601E-04	1.206E-04	9.673E-05	6.930E-05	4.861E-05			
20	2.883E-03	2.089E-03	1.711E-03	1.255E-03	8.972E-04	6.681E-04	4.598E-04	3.093E-04	2.328E-04	1.867E-04	1.338E-04	9.384E-05			
30	4.416E-03	3.410E-03	2.780E-03	2.057E-03	1.440E-03	9.807E-04	7.413E-04	4.982E-04	3.752E-04	3.009E-04	2.155E-04	1.512E-04			
45	-1.559E-03	-1.288E-03	-1.080E-03	-8.164E-04	-5.910E-04	-4.043E-04	-3.066E-04	-2.066E-04	-1.557E-04	-1.249E-04	-8.951E-05	-6.280E-05			
60	-1.911E-02	-1.496E-02	-1.202E-02	-9.035E-03	-6.444E-03	-4.386E-03	-3.188E-03	-2.231E-03	-1.680E-03	-1.348E-03	-9.654E-04	-6.773E-04			
75	-4.534E-02	-3.538E-02	-2.899E-02	-2.130E-02	-1.527E-02	-1.032E-02	-7.809E-03	-5.250E-03	-3.954E-03	-3.171E-03	-2.272E-03	-1.594E-03			
90	-7.918E-02	-6.177E-02	-5.062E-02	-3.718E-02	-2.690E-02	-1.802E-02	-1.363E-02	-9.165E-03	-6.903E-03	-5.536E-03	-3.966E-03	-2.782E-03			
120	-1.801E-01	-1.412E-01	-1.160E-01	-8.546E-02	-6.119E-02	-4.152E-02	-3.141E-02	-2.112E-02	-1.591E-02	-1.276E-02	-9.141E-03	-6.413E-03			
150	-4.009E-01	-3.249E-01	-2.710E-01	-2.033E-01	-1.470E-01	-1.003E-01	-7.601E-02	-5.119E-02	-3.858E-02	-3.095E-02	-2.218E-02	-1.556E-02			
179	-1.254E-01	-1.607E-01	-1.951E-01	-2.614E-01	-3.527E-01	-4.705E-01	-5.692E-01	-6.589E-01	-6.685E-01	-6.400E-01	-5.524E-01	-4.352E-01			

SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM

ENERGY (MEV)

DEG	1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	3.484E-02	-1.177E-07	-4.185E-01	-5.972E-07	-4.075E-07	-1.250E-07	1.883E-07	1.774E-07	6.819E-07	1.048E-06	1.048E-06	3.942E-07
2	-6.828E-04	-1.119E-06	1.702E-06	2.416E-06	2.150E-06	8.889E-07	2.881E-06	-1.692E-06	7.275E-06	2.067E-05	2.067E-05	1.346E-05
3	1.557E-06	-2.573E-06	5.345E-06	1.609E-06	3.274E-06	-6.447E-06	5.994E-06	5.535E-06	-5.560E-06	5.723E-05	5.723E-05	2.121E-05
4	4.859E-07	-1.110E-05	5.144E-06	-1.083E-05	-6.274E-06	2.062E-05	9.471E-06	-2.044E-05	1.271E-05	-9.388E-06	5.162E-05	3.450E-06
6	5.993E-06	-1.476E-05	2.777E-05	5.496E-05	1.405E-05	4.188E-05	-4.095E-05	9.911E-05	5.525E-05	1.459E-04	-5.502E-05	-2.240E-05
8	4.127E-04	-8.641E-05	8.294E-04	1.361E-04	1.361E-04	2.284E-05	2.284E-05	2.681E-05	2.327E-04	-1.677E-04	-1.677E-04	2.781E-04
10	-1.281E-04	5.435E-05	1.010E-04	-9.117E-05	2.857E-04	-2.819E-04	2.819E-04	2.421E-04	4.349E-04	-3.544E-04	1.582E-04	8.698E-04
15	4.689E-04	-5.662E-05	1.413E-04	4.092E-04	-4.407E-05	7.946E-04	7.946E-04	7.451E-04	1.230E-03	1.459E-03	2.405E-03	1.134E-03
20	9.728E-04	-5.627E-05	1.534E-04	3.170E-04	-1.277E-03	1.918E-03	1.918E-03	2.641E-03	2.616E-03	4.682E-03	1.949E-03	3.031E-03
30	-3.607E-07	-4.358E-03	5.303E-03	4.518E-03	7.361E-03	6.686E-05	-7.433E-03	8.664E-02	-3.531E-02	5.731E-03	-1.406E-02	-9.390E-03
45	1.228E-07	-1.057E-02	1.714E-02	-1.924E-02	-3.701E-03	2.779E-02	1.924E-02	-2.016E-02	4.386E-02	1.856E-02	2.348E-02	5.213E-02
60	2.680E-02	-2.951E-02	1.054E-02	4.597E-02	7.752E-02	-7.752E-02	-7.040E-02	3.459E-02	-2.839E-02	4.586E-02	9.564E-02	1.331E-01
75	1.581E-02	6.085E-02	1.177E-02	7.752E-02	-7.040E-02	3.459E-02	-2.839E-02	4.586E-02	1.856E-02	2.348E-02	5.213E-02	1.331E-01
90	-3.297E-03	-9.034E-02	6.737E-02	3.256E-02	1.174E-01	1.045E-01	5.063E-02	1.343E-01	1.817E-01	1.701E-01	1.009E-01	5.509E-02
120	1.547E-01	1.431E-01	8.249E-02	-5.501E-02	-1.600E-01	-2.329E-01	2.054E-01	1.806E-01	7.612E-02	1.933E-02	-1.423E-01	-2.118E-01
150	-1.863E-01	-2.020E-01	-2.124E-01	-2.256E-01	-2.331E-01	-2.331E-01	-3.211E-01	-4.407E-01	-4.685E-01	-5.003E-01	-5.003E-01	-5.197E-01
179	-5.529E-03	-6.006E-03	-6.164E-03	-6.901E-03	-7.304E-03	-7.641E-03	-8.179E-03	-8.801E-03	-9.600E-03	-1.024E-02	-1.163E-02	-1.217E-02

DEG	5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	3.390E-04	3.620E-06	5.874E-06	7.835E-06	7.947E-06	8.543E-06	9.347E-06	9.496E-06	8.385E-06	7.004E-06	5.428E-06	4.408E-06
2	1.169E-05	8.979E-06	1.922E-05	3.309E-05	3.559E-05	3.173E-05	3.163E-05	2.954E-05	2.607E-05	2.202E-05	1.739E-05	1.414E-05
3	4.595E-04	2.404E-05	6.494E-05	7.635E-05	6.991E-05	6.055E-05	5.614E-05	5.345E-05	4.917E-05	4.215E-05	3.475E-05	2.874E-05
4	1.508E-04	8.165E-05	1.337E-04	1.159E-04	9.357E-05	7.962E-05	7.926E-05	8.062E-05	7.952E-05	7.288E-05	5.927E-05	5.054E-05
6	1.474E-04	3.011E-04	2.220E-04	1.034E-04	7.340E-05	1.005E-04	1.529E-04	1.781E-04	1.952E-04	1.893E-04	1.597E-04	1.345E-04
8	5.377E-04	4.590E-04	1.444E-04	-4.177E-05	2.464E-05	2.860E-04	1.515E-04	4.198E-04	4.577E-04	4.340E-04	3.635E-04	3.045E-04
10	8.441E-04	2.902E-04	-2.614E-04	-2.084E-04	9.129E-05	5.664E-05	8.039E-04	9.046E-04	9.461E-04	8.695E-04	7.134E-04	5.925E-04
15	3.900E-04	-1.720E-03	1.265E-03	5.606E-04	3.233E-03	3.639E-03	3.639E-03	3.694E-03	3.453E-03	2.970E-03	2.333E-03	1.902E-03
20	-4.474E-03	-3.318E-03	5.421E-04	5.289E-03	7.674E-03	9.197E-03	9.175E-03	8.758E-03	7.643E-03	6.281E-03	4.781E-03	3.846E-03
30	-1.459E-03	1.137E-02	2.284E-02	2.914E-02	2.945E-02	2.816E-02	2.262E-02	1.974E-02	1.566E-02	1.194E-02	8.631E-03	6.779E-03
45	6.804E-02	7.797E-02	7.196E-02	5.388E-02	3.954E-02	2.530E-02	1.336E-02	3.294E-03	3.294E-03	4.998E-04	-7.743E-04	-1.025E-03
60	1.424E-02	-1.212E-02	-1.193E-02	-1.212E-02	-1.193E-02	-1.193E-02	-5.119E-02	-5.07E-02	-4.708E-02	-4.031E-02	-3.164E-02	-2.581E-02
75	-1.446E-02	-7.866E-02	-1.266E-01	-1.577E-01	-1.665E-01	-1.641E-01	-1.545E-01	-1.438E-01	-1.244E-01	-1.022E-01	-7.812E-02	-6.304E-02
90	-2.526E-01	-2.460E-01	-3.219E-01	-3.305E-01	-3.250E-01	-3.032E-01	-2.793E-01	-2.438E-01	-2.205E-01	-1.802E-01	-1.374E-01	-1.108E-01
120	-3.337E-01	-5.549E-01	-5.694E-01	-5.817E-01	-5.627E-01	-5.369E-01	-5.419E-01	-5.137E-01	-4.586E-01	-3.884E-01	-3.051E-01	-2.494E-01
150	-3.643E-01	-3.941E-01	-4.310E-01	-4.801E-01	-5.191E-01	-5.767E-01	-6.150E-01	-6.394E-01	-6.592E-01	-6.471E-01	-5.851E-01	-5.163E-01
179	-1.295E-02	-1.433E-02	-1.615E-02	-1.883E-02	-2.127E-02	-2.377E-02	-2.600E-02	-2.811E-02	-3.000E-02	-3.158E-02	-3.299E-02	-3.491E-02

DEG	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	3.191E-06	2.496E-06	6.044E-06	1.507E-06	1.074E-06	7.311E-06	5.530E-07	3.719E-07	2.801E-07	2.245E-07	1.609E-07	1.129E-07
2	1.033E-06	8.043E-06	6.642E-06	4.891E-06	3.507E-06	2.376E-06	1.790E-06	1.209E-06	9.107E-07	7.304E-07	5.233E-07	3.671E-07
3	2.114E-05	1.665E-05	1.771E-05	1.011E-05	7.264E-06	4.920E-06	3.723E-06	2.504E-06	1.886E-06	1.513E-06	1.084E-06	7.604E-06
4	3.744E-05	2.960E-05	2.441E-05	1.804E-05	1.257E-05	8.807E-06	6.669E-06	4.404E-06	3.378E-06	2.709E-06	1.941E-06	1.362E-06
6	1.003E-04	7.462E-05	6.555E-05	4.847E-05	3.479E-05	2.363E-05	1.789E-05	1.203E-05	9.064E-06	7.271E-06	5.209E-06	3.654E-06
8	2.263E-04	1.745E-04	1.474E-04	1.087E-04	7.694E-05	5.236E-05	4.009E-05	2.696E-05	2.031E-05	1.629E-05	1.167E-05	8.187E-06
10	4.363E-04	3.437E-04	2.830E-04	2.089E-04	1.494E-04	1.016E-04	7.689E-05	5.164E-05	3.894E-05	3.123E-05	2.256E-05	1.570E-05
15	1.303E-03	1.090E-03	8.462E-04	6.522E-04	4.647E-04	3.165E-04	2.394E-04	1.610E-04	1.213E-04	9.726E-05	6.975E-05	4.888E-05
20	2.759E-03	2.190E-03	1.761E-03	1.293E-03	9.239E-04	6.622E-04	4.736E-04	3.184E-04	2.398E-04	1.923E-04	1.378E-04	9.664E-05
30	4.745E-03	3.602E-03	3.003E-03	2.194E-03	1.566E-03	1.060E-03	8.012E-04	5.385E-04	4.055E-04	3.252E-04	2.329E-04	1.634E-04
45	-9.777E-02	-8.395E-04	-7.175E-04	-5.481E-04	-4.004E-04	-2.747E-04	-2.086E-04	-1.407E-04	-1.061E-04	-8.513E-05	-6.101E-05	-4.281E-05
60	-4.537E-02	-1.540E-02	-1.205E-02	-8.865E-03	-6.345E-03	-4.304E-03	-3.256E-03	-2.159E-03	-1.649E-03	-1.322E-03	-9.474E-04	-6.646E-04
75	-2.537E-02	-3.540E-02	-2.902E-02	-2.137E-02	-1.524E-02	-1.033E-02	-7.815E-03	-5.254E-03	-3.957E-03	-3.174E-03	-2.274E-03	-1.599E-03
90	-7.467E-03	-6.215E-02	-5.094E-02	-3.741E-02	-2.674E-02	-1.813E-02	-1.372E-02	-9.21E-03	-6.945E-03	-5.270E-03	-3.990E-03	-2.799E-03
120	-1.417E-01	-1.455E-01	-1.771E-01	-1.620E-02	-8.172E-02	-4.188E-02	-3.169E-02	-2.130E-02	-1.605E-02	-1.287E-02	-9.220E-03	-6.469E-03
150	-4.048E-01	-3.280E-01	-2.741E-01	-2.057E-01	-1.344E-01	-1.012E-01	-7.669E-02	-5.165E-02	-3.892E-02	-3.123E-02	-2.238E-02	-1.570E-02
179	-1.273E-01	-1.631E-01	-1.941E-01	-2.653E-01	-3.279E-01	-4.854E-01	-5.770E-01	-8.673E-01	-6.764E-01	-4.471E-01	-5.581E-01	-4.395E-01

ES (99)		SHERMAN FUNCTION, DEGREE OF POLARIZATION OF A SCATTERED ELECTRON BEAM										ENERGY (MEV)	
DEG		1.0E-03	1.5E-03	2.0E-03	3.0E-03	4.0E-03	5.0E-03	7.0E-03	1.0E-02	1.5E-02	2.0E-02	3.0E-02	4.0E-02
1	4.273E-03	1.444E-06	-2.870E-07	-5.489E-07	-6.005E-07	-7.012E-07	-1.382E-07	8.852E-07	6.620E-08	2.074E-07	1.180E-06	3.208E-07	1.343E-05
2	1.215E-06	-1.783E-07	1.452E-06	1.091E-06	2.147E-06	4.490E-07	4.337E-07	-2.677E-07	-3.014E-06	8.322E-06	9.113E-07	1.363E-07	2.420E-05
3	4.030E-06	-4.636E-06	6.202E-06	-2.191E-06	-1.016E-06	-6.943E-06	-3.433E-06	8.714E-06	1.603E-05	-2.640E-06	2.542E-05	2.420E-05	8.437E-07
4	7.332E-04	-8.007E-06	-3.017E-06	-3.914E-06	1.785E-06	1.858E-05	2.249E-06	-2.135E-05	2.012E-05	-1.546E-05	5.652E-05	8.437E-07	-4.204E-05
6	-2.588E-05	-3.259E-05	6.120E-06	2.789E-05	6.478E-05	-5.631E-05	-2.171E-05	1.001E-04	-7.087E-05	1.421E-04	-4.201E-05	-4.204E-05	2.320E-04
8	-4.032E-05	-8.702E-05	-1.024E-04	2.941E-05	-1.353E-04	1.614E-04	-2.755E-05	-5.516E-05	2.013E-04	1.612E-04	-1.996E-04	2.320E-04	8.501E-04
10	-1.468E-04	1.323E-04	1.704E-04	-5.251E-06	2.165E-04	-2.542E-04	3.762E-04	-3.406E-04	4.952E-04	-3.062E-04	6.372E-05	1.404E-03	1.404E-03
15	4.951E-04	-3.139E-04	4.023E-04	6.245E-04	-3.013E-04	9.319E-04	-9.368E-04	1.423E-03	-1.474E-03	-9.512E-05	2.491E-03	1.404E-03	1.404E-03
20	1.178E-03	4.642E-04	1.330E-03	-2.133E-04	4.091E-04	-2.219E-03	2.956E-03	-2.365E-03	3.667E-04	4.695E-03	1.625E-03	-2.715E-03	-1.080E-02
30	-3.878E-03	-3.832E-03	5.113E-03	-5.475E-03	7.358E-03	1.381E-03	-8.295E-03	7.774E-03	8.467E-03	-4.502E-03	-1.454E-02	-1.080E-02	4.986E-02
45	1.174E-02	-1.203E-02	1.720E-02	-1.844E-02	-7.184E-03	1.947E-02	2.247E-02	-1.761E-02	-3.720E-02	-2.238E-02	1.963E-02	1.364E-01	1.364E-01
60	2.557E-02	-2.733E-02	-1.604E-02	4.751E-02	1.575E-02	-3.031E-02	-6.382E-02	-3.481E-02	3.984E-02	9.261E-02	1.362E-01	1.364E-01	1.364E-01
75	-2.276E-02	6.171E-02	2.020E-02	-7.698E-02	-7.682E-02	-4.052E-02	4.267E-02	1.310E-01	1.868E-01	1.807E-01	1.148E-01	4.795E-02	4.795E-02
90	6.150E-03	-9.186E-02	-7.493E-02	2.362E-02	1.067E-01	1.622E-01	2.111E-01	1.944E-01	9.336E-02	-4.217E-03	-1.340E-01	-2.064E-01	-2.064E-01
120	1.569E-01	1.533E-01	9.485E-02	-4.144E-02	-1.510E-01	-2.281E-01	-3.934E-01	-3.934E-01	-4.487E-01	-4.776E-01	-5.100E-01	-5.297E-01	-5.297E-01
150	-1.901E-01	-2.004E-01	-2.167E-01	-2.306E-01	-2.404E-01	-2.483E-01	-2.608E-01	-2.753E-01	-2.939E-01	-3.088E-01	-3.332E-01	-3.533E-01	-3.533E-01
179	-5.633E-03	-6.118E-03	-6.483E-03	-7.030E-03	-7.444E-03	-7.782E-03	-8.327E-03	-8.959E-03	-9.769E-03	-1.042E-02	-1.148E-02	-1.237E-02	-1.237E-02
DEG		5.0E-02	7.0E-02	1.0E-01	1.5E-01	2.0E-01	3.0E-01	4.0E-01	5.0E-01	7.0E-01	1.0E+00	1.5E+00	2.0E+00
1	1.779E-06	4.398E-06	5.925E-06	7.713E-06	7.117E-06	1.031E-05	8.631E-06	8.332E-06	8.490E-06	7.092E-06	4.944E-06	4.461E-06	4.461E-06
2	1.257E-05	7.950E-06	1.671E-05	3.190E-05	3.608E-05	3.482E-05	3.022E-05	3.007E-05	2.639E-05	2.219E-05	1.736E-05	1.418E-05	1.418E-05
3	6.027E-06	1.897E-05	6.080E-05	7.797E-05	7.244E-05	6.249E-05	5.711E-05	5.380E-05	4.894E-05	4.256E-05	3.419E-05	2.829E-05	2.829E-05
4	-5.467E-06	7.482E-05	1.353E-04	1.226E-04	9.901E-05	8.122E-05	7.860E-05	7.890E-05	7.704E-05	7.035E-05	5.814E-05	4.873E-05	4.873E-05
6	1.253E-04	3.058E-04	2.545E-04	1.157E-04	7.673E-05	1.018E-04	1.393E-04	1.640E-04	1.810E-04	1.759E-04	1.502E-04	1.270E-04	1.270E-04
8	5.288E-04	5.036E-04	1.417E-04	-4.081E-05	6.627E-07	1.874E-04	3.117E-04	3.825E-04	4.264E-04	4.096E-04	3.458E-04	2.907E-04	2.907E-04
10	4.416E-04	3.791E-04	-2.099E-04	-2.521E-04	1.867E-05	4.839E-04	7.313E-04	8.454E-04	8.959E-04	8.329E-04	6.882E-04	5.732E-04	5.732E-04
15	-1.607E-04	-1.705E-03	-1.450E-03	2.811E-04	1.651E-03	3.041E-03	3.504E-03	3.595E-03	3.403E-03	2.947E-03	2.326E-03	1.900E-03	1.900E-03
20	-4.500E-03	-3.766E-03	-5.706E-03	4.768E-03	7.313E-03	9.066E-03	9.167E-03	8.783E-03	7.750E-03	6.403E-03	4.892E-03	3.941E-03	3.941E-03
30	-3.573E-03	9.831E-03	2.202E-02	2.928E-02	3.010E-02	2.721E-02	2.373E-02	2.083E-02	1.663E-02	1.277E-02	9.252E-03	7.280E-03	7.280E-03
45	6.749E-02	8.001E-02	7.580E-02	5.838E-02	4.381E-02	2.588E-02	1.637E-02	1.090E-02	5.330E-03	2.052E-03	3.480E-04	-1.417E-04	-1.417E-04
60	1.210E-01	8.231E-02	3.469E-02	-6.150E-03	-2.172E-02	-4.423E-02	-4.873E-02	-4.897E-02	-4.560E-02	-3.923E-02	-3.088E-02	-2.522E-02	-2.522E-02
75	-3.774E-03	-7.084E-02	-1.219E-01	-1.551E-01	-1.649E-01	-1.634E-01	-1.541E-01	-1.435E-01	-1.243E-01	-1.022E-01	-7.812E-02	-6.304E-02	-6.304E-02
90	-2.497E-01	-2.958E-01	-3.232E-01	-3.327E-01	-3.274E-01	-3.054E-01	-2.814E-01	-2.591E-01	-2.220E-01	-1.814E-01	-1.383E-01	-1.114E-01	-1.114E-01
120	-5.436E-01	-5.627E-01	-5.794E-01	-5.907E-01	-5.908E-01	-5.744E-01	-5.485E-01	-5.198E-01	-4.635E-01	-3.924E-01	-3.079E-01	-2.517E-01	-2.517E-01
150	-3.708E-01	-4.008E-01	-4.381E-01	-4.877E-01	-5.271E-01	-5.852E-01	-6.237E-01	-6.481E-01	-6.677E-01	-6.548E-01	-5.915E-01	-5.216E-01	-5.216E-01
179	-1.316E-02	-1.456E-02	-1.641E-02	-1.912E-02	-2.159E-02	-2.617E-02	-3.074E-02	-3.462E-02	-4.267E-02	-5.439E-02	-7.348E-02	-9.227E-02	-9.227E-02
DEG		3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
1	3.228E-06	2.525E-06	2.072E-06	1.524E-06	1.090E-06	7.393E-07	5.593E-07	3.760E-07	2.832E-07	2.272E-07	1.627E-07	1.142E-07	1.142E-07
2	1.032E-05	8.092E-06	6.640E-06	4.895E-06	3.505E-06	2.378E-06	1.799E-06	1.210E-06	9.111E-07	7.307E-07	5.235E-07	3.672E-07	3.672E-07
3	2.086E-05	1.637E-05	1.340E-05	9.928E-06	7.116E-06	4.831E-06	3.655E-06	2.458E-06	1.852E-06	1.485E-06	1.064E-06	7.465E-07	7.465E-07
4	3.618E-05	2.855E-05	2.354E-05	1.740E-05	1.244E-05	8.478E-06	6.417E-06	4.316E-06	3.251E-06	2.608E-06	1.868E-06	1.311E-06	1.311E-06
6	9.494E-05	7.522E-05	6.212E-05	4.595E-05	3.299E-05	2.241E-05	1.697E-05	1.141E-05	8.598E-06	6.896E-06	4.911E-06	3.466E-06	3.466E-06
8	2.163E-04	1.710E-04	1.411E-04	1.043E-04	7.481E-05	5.081E-05	3.846E-05	2.587E-05	1.949E-05	1.563E-05	1.120E-05	7.856E-06	7.856E-06
10	4.233E-04	3.373E-04	2.749E-04	2.028E-04	1.454E-04	4.677E-04	3.172E-04	2.400E-04	1.613E-04	1.215E-04	9.747E-05	6.983E-05	4.899E-05
15	1.381E-03	1.081E-03	8.800E-04	6.534E-04	4.677E-04	3.172E-04	2.400E-04	1.613E-04	1.215E-04	9.747E-05	6.983E-05	4.899E-05	4.899E-05
20	2.831E-03	2.207E-03	1.806E-03	1.328E-03	9.491E-04	6.433E-04	4.865E-04	3.671E-04	2.463E-04	1.976E-04	1.415E-04	9.928E-05	9.928E-05
30	5.125E-03	3.963E-03	3.233E-03	2.364E-03	1.694E-03	1.142E-03	8.630E-04	5.800E-04	4.368E-04	3.503E-04	2.509E-04	1.760E-04	1.760E-04
45	-3.557E-04	-3.568E-04	-3.259E-04	-2.609E-04	-1.755E-04	-1.360E-04	-1.038E-04	-7.026E-05	-5.304E-05	-4.259E-05	-3.054E-05	-2.143E-05	-2.143E-05
60	-1.833E-02	-1.436E-02	-1.179E-02	-8.677E-03	-6.211E-03	-4.213E-03	-3.187E-03	-2.143E-03	-1.614E-03	-1.295E-03	-9.274E-04	-6.506E-04	-6.506E-04
75	-4.538E-02	-3.541E-02	-2.902E-02	-2.132E-02	-1.524E-02	-1.033E-02	-7.816E-03	-5.255E-03	-3.958E-03	-3.175E-03	-2.274E-03	-1.595E-03	-1.595E-03
90	-6.015E-02	-6.252E-02	-5.124E-02	-3.763E-02	-2.691E-02	-1.824E-02	-1.380E-02	-9.275E-03	-6.986E-03	-5.603E-03	-4.014E-03	-2.816E-03	-2.816E-03
120	-1.833E-01	-1.437E-01	-1.181E-01	-8.694E-02	-6.225E-02	-4.223E-02	-3.195E-02	-2.148E-02	-1.618E-02	-1.298E-02	-9.298E-03	-6.523E-03	-6.523E-03
150	-4.087E-01	-3.310E-01	-2.766E-01	-2.070E-01	-1.494E-01	-1.021E-01	-7.737E-02	-5.210E-02	-3.927E-02	-3.150E-02	-2.257E-02	-1.584E-02	-1.584E-02
179	-1.293E-01	-1.655E-01	-2.010E-01	-2.692E-01	-3.631E-01	-4.922E-01	-5.848E-01	-6.756E-01	-6.843E-01	-6.542E-01	-5.637E-01	-4.437E-01	-4.437E-01

DEG	1.0E+03	1.5E+03	2.0E+03	3.0E+03	4.0E+03	5.0E+03	7.0E+03	1.0E+04	1.5E+04	2.0E+04	3.0E+04	4.0E+04
1	6.510E-03	2.415E-07	-2.543E-07	3.032E-07	-7.599E-07	1.999E-07	5.334E-07	-3.149E-07	8.276E-07	-3.999E-07	5.231E-06	1.124E-06
2	-3.313E-07	8.792E-06	1.065E-06	4.275E-07	2.059E-06	-5.399E-07	-7.102E-07	-1.417E-06	-3.103E-06	7.619E-06	1.312E-06	1.164E-05
3	-4.048E-04	-3.470E-06	3.893E-06	-4.875E-06	4.064E-06	-2.201E-06	-7.739E-07	1.233E-05	1.359E-05	1.277E-07	2.190E-05	2.719E-05
4	9.672E-06	-3.631E-07	-9.400E-06	2.879E-06	8.693E-06	1.253E-05	-6.372E-05	-2.049E-05	-2.716E-05	-2.116E-05	-6.162E-05	-5.804E-05
5	-3.782E-05	-3.955E-07	-1.465E-05	4.725E-05	6.107E-05	-6.427E-05	7.761E-08	9.431E-05	-8.398E-05	1.339E-05	-2.556E-05	-5.404E-05
6	-7.345E-05	-6.150E-07	-8.866E-05	-2.174E-05	1.195E-04	-7.694E-05	5.281E-05	-5.687E-04	1.620E-04	2.102E-04	-2.273E-04	1.817E-04
7	-1.126E-04	1.810E-04	2.114E-04	8.701E-05	-2.020E-04	1.894E-04	7.894E-04	5.416E-04	5.416E-04	2.366E-04	-3.534E-05	8.173E-04
8	3.919E-04	-7.370E-05	5.971E-04	7.874E-04	-5.454E-04	1.061E-03	1.090E-03	1.515E-03	-1.444E-03	-3.748E-04	2.545E-03	1.673E-03
9	1.557E-07	9.477E-04	7.665E-04	-7.510E-04	9.499E-04	-2.418E-03	1.090E-03	1.515E-03	-1.444E-03	-3.748E-04	2.545E-03	1.673E-03
10	-3.667E-01	-2.445E-02	4.559E-03	-6.292E-03	7.067E-03	2.663E-03	9.940E-03	6.693E-03	9.845E-03	-3.137E-03	2.219E-03	-2.340E-03
11	1.036E-07	-1.453E-02	1.666E-02	1.707E-02	-1.046E-02	1.768E-02	2.551E-02	-1.446E-02	3.882E-02	-6.817E-02	1.489E-02	-1.213E-02
12	2.328E-07	-2.428E-02	2.141E-02	4.827E-02	-2.531E-02	-2.538E-02	6.557E-02	-4.122E-02	-3.335E-02	8.617E-02	1.552E-02	4.713E-02
13	-2.956E-02	6.234E-02	2.806E-02	7.557E-02	-8.454E-02	4.895E-02	3.420E-02	1.268E-01	1.912E-01	9.910E-01	1.387E-01	1.423E-01
14	1.595E-02	9.234E-02	8.226E-02	1.828E-02	9.547E-02	1.540E-01	2.325E-01	2.080E-01	1.114E-01	1.204E-02	-2.236E-01	6.161E-02
15	1.584E-01	1.632E-01	1.114E-01	-2.678E-02	-1.408E-01	-2.224E-01	-3.293E-01	-3.984E-01	-4.567E-01	4.867E-01	-5.199E-01	-5.397E-01
16	-1.939E-01	-2.108E-01	-2.613E-01	-2.356E-01	-2.547E-01	-2.547E-01	-2.663E-01	-2.810E-01	-2.997E-01	-3.148E-01	-3.394E-01	-3.590E-01
17	-5.738E-03	-6.233E-03	-6.403E-03	-7.161E-03	-7.589E-03	-7.926E-03	-8.479E-03	-9.120E-03	-9.941E-03	-1.060E-02	-1.168E-02	-1.259E-02
18	5.0E+02	7.0E+02	1.0E+03	1.5E+03	2.0E+03	3.0E+03	4.0E+03	5.0E+03	7.0E+03	1.0E+04	1.5E+04	2.0E+04
19	1.574E-04	3.577E-06	6.003E-06	7.592E-06	9.612E-06	1.034E-05	1.020E-05	4.395E-06	8.596E-06	6.410E-06	5.562E-06	4.513E-06
20	1.390E-05	7.240E-06	1.547E-05	3.146E-05	3.629E-05	3.561E-05	1.406E-05	3.066E-05	2.672E-05	2.241E-05	1.748E-05	1.423E-05
21	-7.736E-06	1.750E-05	5.891E-05	8.063E-05	7.830E-05	6.466E-05	5.835E-05	5.439E-05	4.889E-05	4.222E-05	3.376E-05	2.783E-05
22	-9.241E-06	1.761E-04	1.761E-04	1.293E-04	1.017E-04	8.347E-05	7.849E-05	7.763E-05	7.486E-05	6.800E-05	5.608E-05	4.692E-05
23	1.025E-04	3.060E-04	2.746E-04	1.315E-04	8.129E-05	9.275E-05	1.262E-04	1.500E-04	1.687E-04	1.652E-04	1.421E-04	1.204E-04
24	5.154E-04	5.458E-04	2.076E-04	1.380E-05	1.485E-05	1.499E-05	7.718E-04	3.421E-04	3.439E-04	3.839E-04	3.268E-04	2.759E-04
25	4.899E-04	4.725E-04	-1.879E-04	-2.894E-04	-5.140E-05	4.002E-04	6.535E-04	7.666E-04	8.417E-04	7.977E-04	6.602E-04	5.517E-04
26	-4.668E-03	-4.160E-03	-1.340E-03	1.340E-03	1.340E-03	2.832E-03	3.353E-03	3.806E-03	7.834E-03	6.508E-03	2.310E-03	1.891E-03
27	-5.309E-03	8.177E-02	2.104E-02	2.928E-02	3.047E-02	2.821E-02	2.484E-02	-2.192E-02	1.762E-02	1.350E-02	9.888E-03	4.029E-03
28	6.653E-02	8.177E-02	7.961E-02	6.300E-02	4.827E-02	2.616E-02	1.952E-02	1.365E-02	7.498E-02	3.708E-02	1.547E-03	8.029E-04
29	1.295E-01	9.180E-02	4.514E-02	2.659E-04	-2.224E-02	-4.074E-02	-4.604E-02	-4.877E-02	-4.397E-02	-3.804E-02	-3.004E-02	-2.457E-02
30	-2.462E-03	6.227E-02	-1.184E-01	-1.521E-01	-1.630E-01	-1.629E-01	-1.535E-01	-1.332E-01	-1.241E-01	-1.070E-01	-7.806E-02	-6.300E-02
31	-5.537E-01	-2.951E-01	-3.244E-01	-3.348E-01	-3.297E-01	-3.076E-01	-2.833E-01	-2.608E-01	-2.234E-01	-1.825E-01	-1.391E-01	-1.121E-01
32	-3.773E-01	-4.077E-01	-5.890E-01	-5.997E-01	-5.997E-01	-5.820E-01	-5.257E-01	-4.694E-01	-4.694E-01	-3.963E-01	-3.108E-01	-2.539E-01
33	-1.336E-02	-1.480E-02	-1.666E-02	-1.941E-02	-2.192E-02	-2.656E-02	-3.275E-02	-3.514E-02	-4.331E-02	-5.520E-02	-7.458E-02	-9.336E-02
34	3.0E+00	4.0E+00	5.0E+00	7.0E+00	1.0E+01	1.5E+01	2.0E+01	3.0E+01	4.0E+01	5.0E+01	7.0E+01	1.0E+02
35	3.267E-06	2.555E-06	2.096E-06	1.542E-06	1.103E-06	7.480E-07	5.658E-07	3.805E-07	2.866E-07	2.298E-07	1.646E-07	1.153E-07
36	1.036E-05	8.110E-06	6.668E-06	4.908E-06	3.514E-06	2.349E-06	1.803E-06	1.213E-06	9.133E-07	7.326E-07	5.248E-07	3.682E-07
37	2.047E-05	1.611E-05	1.326E-05	9.777E-06	7.007E-06	4.756E-06	3.594E-06	2.520E-06	1.823E-06	1.462E-06	1.048E-06	7.390E-07
38	3.485E-05	2.755E-05	2.271E-05	1.680E-05	1.205E-05	8.180E-06	4.196E-06	2.677E-06	3.139E-06	2.518E-06	1.804E-06	1.260E-06
39	9.025E-05	7.156E-05	5.912E-05	4.375E-05	3.142E-05	2.135E-05	1.616E-05	1.089E-05	8.189E-06	6.564E-06	4.706E-06	3.302E-06
40	2.057E-04	1.630E-04	1.345E-04	9.946E-05	7.138E-05	4.849E-05	3.670E-05	2.469E-05	1.860E-05	1.492E-05	1.069E-05	7.499E-06
41	4.085E-04	3.223E-04	2.636E-04	1.961E-04	1.404E-04	9.550E-05	7.227E-05	4.861E-05	3.662E-05	2.937E-05	2.104E-05	1.476E-05
42	1.377E-03	1.079E-03	8.663E-04	6.524E-04	4.670E-04	3.168E-04	2.397E-04	1.612E-04	1.216E-04	9.736E-05	6.975E-05	4.894E-05
43	5.997E-03	2.260E-03	1.852E-03	1.360E-03	9.772E-04	6.591E-04	4.985E-04	3.351E-04	2.524E-04	2.024E-04	1.501E-04	1.017E-04
44	3.093E-04	1.576E-04	9.480E-05	4.538E-05	1.871E-05	1.226E-05	9.257E-06	6.228E-06	4.690E-06	3.762E-06	2.695E-06	1.890E-06
45	-1.788E-02	-1.401E-02	-1.151E-02	-8.669E-03	-6.063E-03	-4.112E-03	-2.577E-03	-1.570E-03	-9.712E-04	-6.298E-04	-3.666E-04	-2.359E-04
46	-3.535E-02	-3.535E-02	-2.901E-02	-2.131E-02	-1.525E-02	-1.033E-02	-7.813E-03	-5.253E-03	-3.956E-03	-3.173E-03	-2.273E-03	-1.593E-03
47	-8.060E-02	-6.281E-02	-5.152E-02	-3.784E-02	-2.704E-02	-1.834E-02	-1.387E-02	-9.326E-03	-7.024E-03	-5.634E-03	-4.036E-03	-2.831E-03
48	-1.948E-01	-1.191E-01	-8.766E-02	-6.277E-02	-4.258E-02	-2.858E-02	-1.721E-02	-9.166E-03	-6.33E-03	-4.395E-03	-2.975E-03	-1.577E-03
49	-4.125E-01	-3.340E-01	-2.791E-01	-2.088E-01	-1.506E-01	-1.029E-01	-7.804E-02	-5.255E-02	-3.960E-02	-3.177E-02	-2.375E-02	-1.597E-02
50	-1.312E-01	-1.680E-01	-2.040E-01	-2.732E-01	-3.683E-01	-4.991E-01	-5.927E-01	-6.840E-01	-6.921E-01	-6.613E-01	-5.694E-01	-4.679E-01