

Elastic electron scattering from inert-gas atoms

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Abstract

We present a comprehensive set of theoretical values for differential, total, and momentum transfer cross sections for elastic scattering of electrons by inert-gas atoms, for energies below 1 keV. In addition, we also provide Sherman function values for the xenon atom at various energies. The present work includes a critical analysis of most available experimental and theoretical data, and systematic investigations on the effect of various choices for the atomic central, exchange, and polarization potential that we used in our calculations. The objective of the present work is to employ a relatively simple and semiempirical approach with a minimum number of adjustable parameters, which could generate a reliable set of cross sections for a wide range of energies. The present data are in very good agreement with prior accurate experimental and theoretical values.

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1. Introduction

The elastic scattering of electrons from atoms is a fundamental process and has attracted significant attention for many years. In particular, inert-gas atoms have been the subject of extensive investigation due to their simple chemical properties and simple atomic structure in their ground state. Although a large amount of experimental data for differential cross sections (DCSs) is available for the elastic electron scatter-

ing from inert-gas atoms, the data have two serious limitations. First, the agreement among various measurements at different energies is less than satisfactory. This does not allow one to accurately describe the varying pattern of the differential cross section, as incident energy changes from very low to intermediate and higher. Second, they are usually restricted to the intermediate scattering angles, i.e., angles greater than 10° and smaller than 150° . In other words, due to experimental difficulties, there are few measurements done

for each atom in the small and large scattering angle regions. This constraint undermines the capability of establishing the full shape of the differential cross section over the whole angular range. The importance of this problem is more noticeable in the heavier atoms, where one of the minima may lie well beyond the experimental angular limit. This lack of data over a complete angular range causes an inaccuracy in the elastic total cross sections (TCSs) and momentum transfer cross sections (MTCs), where by definition integration over the whole angular range must be performed. On the other hand, reliable theoretical calculations for these atoms are also limited to a few energies, from which a systematic behavior of the cross sections cannot be demonstrated. The availability of reliable and comprehensive atomic data is of great importance to numerous applications, where electron collisions are involved. Our specific motivation was to use such data for simulations of plasma displays, where electron collisions result in electronic discharges of inert-gas mixtures. In this paper, we present a comprehensive set of elastic differential, integral, and momentum transfer cross sections for all angles and over a wide range of energies, which give a good overall understanding of the underlying physical features and provide a consistent set of data for applications, such as plasma simulations.

2. Brief review of the theoretical and computational approach

Electron–atom interactions can be studied through both relativistic and nonrelativistic approaches. Nonetheless, the significance of a relativistic treatment has been well established both for the calculations of the atomic structure of the target and the elastic scattering of electrons from heavy atoms. These effects can cause major differences over the nonrelativistic values even in the position of the Ramsauer–Townsend (RT) minimum for atoms such as krypton and xenon [1]. Hence and for the sake of consistency, we decided to employ a fully relativistic treatment for the electron scattering from all five stable inert-gas atoms, which are helium, neon, argon, krypton, and xenon. Our calculations showed that the difference between the DCS values obtained by the nonrelativistic and relativistic treatment is more profound for the heavier atoms and particularly at low collision energies, as expected. We found no noticeable differences between our nonrelativistic and relativistic DCS results for the helium atom. The advantage of the relativistic approach is shown in Fig. 1, where we compare some of our relativistic and nonrelativistic DCS results for neon, argon, krypton, and xenon at low impact energies. Our method of calculations was the standard method of partial-wave expansion in po-

tential scattering. Using a relativistic approach, the phase shifts were obtained by solving the stationary Dirac equation

$$\hat{H}\psi(\mathbf{r}) = (E + mc^2)\psi(\mathbf{r}) \quad (1)$$

or equivalently

$$[-i\hbar\boldsymbol{\alpha} \cdot \nabla + mc^2\beta + V(r)]\psi(\mathbf{r}) = (E + mc^2)\psi(\mathbf{r}), \quad (2)$$

where $V(r)$ is a central potential and $\boldsymbol{\alpha}$ and β are Dirac matrices. When we write the operator of kinetic energy in spherical coordinates, we obtain

$$\begin{aligned} -i\hbar\boldsymbol{\alpha} \cdot \nabla &= -i\hbar\alpha_r \frac{\partial}{\partial r} + i\mathbf{c} \frac{\alpha_r}{r} \boldsymbol{\Sigma} \cdot \hat{\mathbf{L}} \\ &= -i\mathbf{c}\alpha_r \left(\frac{\partial}{\partial r} + \frac{\hbar}{r} - \frac{\beta}{r} \hat{K} \right). \end{aligned} \quad (3)$$

Here $\boldsymbol{\Sigma} = \gamma^5 \gamma^0 \boldsymbol{\gamma}$, in the standard representation, is the double Pauli matrix and we have introduced $\hat{K} = \beta(\boldsymbol{\Sigma} \cdot \hat{\mathbf{L}} + \hbar)$, with $\hat{\mathbf{L}}$ being the familiar orbital angular momentum operator. The eigensolutions of Eq. (2) can now be obtained by a separation ansatz in the form

$$\psi(\mathbf{r}) = \frac{1}{r} \begin{bmatrix} P(r)\Omega_{\kappa, m_j}(\theta, \varphi) \\ iQ(r)\Omega_{-\kappa, m_j}(\theta, \varphi) \end{bmatrix}, \quad (4)$$

where $P(r)$ and $Q(r)$ are the upper- and lower-component radial functions and Ω 's are the spherical spinors, the eigenfunctions of the angular dependent part:

$$\begin{aligned} \Omega_{\kappa, m_j}(\theta, \varphi) &= \Omega_{j l, m_j}(\theta, \varphi) \\ &= \sum_{\mu=\pm 1/2} \langle l, 1/2, m_j - \mu, \mu | j, m_j \rangle Y_l^{m_j - \mu}(\theta, \varphi) \chi_{\mu}. \end{aligned} \quad (5)$$

Here the quantities $\langle l, 1/2, m_j - 1/2, +1/2 - j, m_j \rangle$ are Clebsch–Gordan coefficients, and the two-spinors χ_{μ} are just eigenfunctions of the spin operators $\hat{S}^2 = \hbar^2 \boldsymbol{\sigma}^2 / 4$ and $\hat{S}_3 = \hbar \sigma_3 / 2$. Being the eigenfunctions of the angular part of the Dirac Hamiltonian, the spherical spinors $\Omega_{j l, m_j}$ are then simultaneous eigenfunctions of $\hat{\mathbf{L}}^2$, \hat{S}^2 , $\hat{\mathbf{J}}^2$, and \hat{J}_3 with eigenvalues $\hbar^2 l(l+1)$, $3\hbar^2/4$, $\hbar^2 j(j+1)$, and $\hbar m_j$, respectively. In the literature, Ω_{κ, m_j} is often used for $\Omega_{j l, m_j}$ with the quantum number κ , which is associated with an operator $\hat{\kappa}$ that will be described shortly. The quantum numbers κ , j , and l are related by:

$$\begin{aligned} \kappa &= (l - j)(2j + 1), \\ j &= |\kappa| - 1/2 = l + \varsigma/2, \\ l &= |\kappa| - (1 + \varsigma)/2 = j - \varsigma/2, \end{aligned} \quad (6)$$

where $\varsigma = -\text{sgn}(\kappa)$. If we define operator $\hat{\kappa} = \boldsymbol{\sigma} \cdot \hat{\mathbf{L}} + \hbar$, it can be easily shown that $\hat{\kappa}\Omega_{\pm\kappa, m_j} = \mp\hbar\kappa\Omega_{\pm\kappa, m_j}$. Therefore, the radial functions $P(r)$ and $Q(r)$ satisfy the coupled equations:

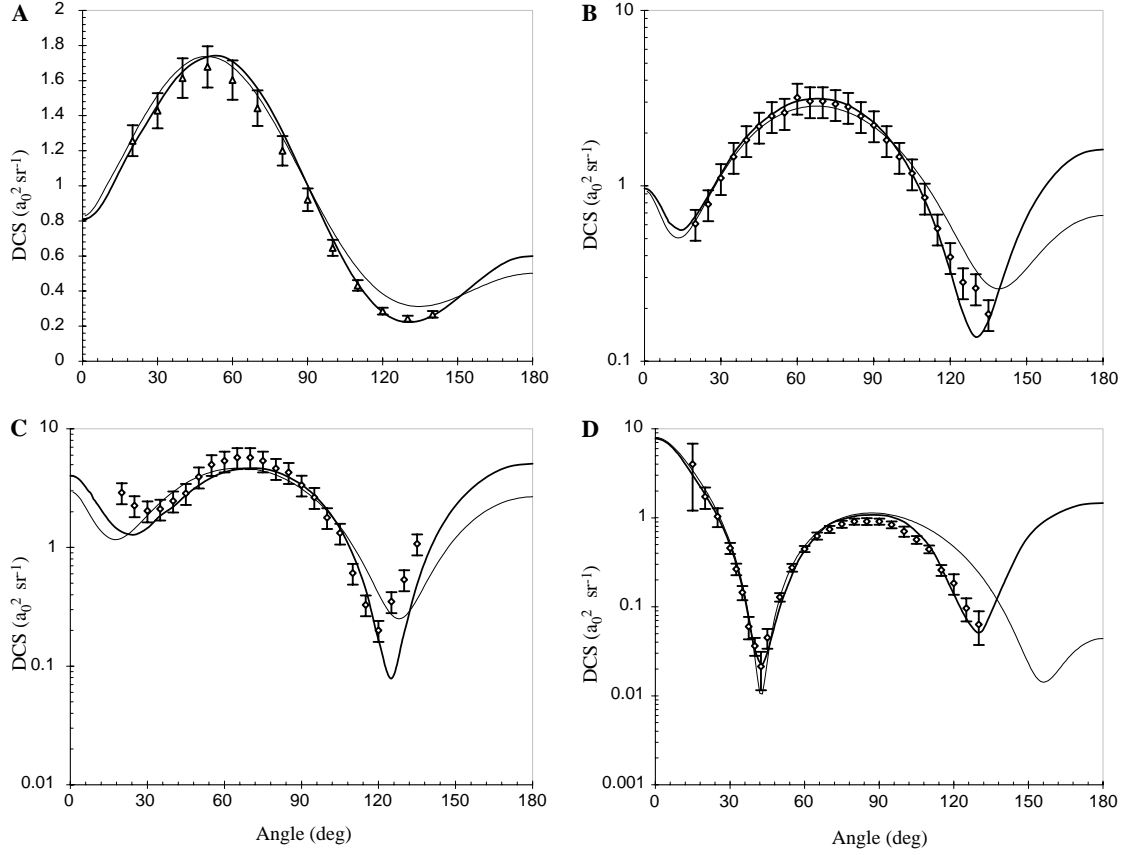


Fig. 1. Comparisons of present relativistic and nonrelativistic DCS results with experimental values. (Note that the effective potential in both calculations is the recommended one for each atom.) (A) Neon at 10 eV: Δ , Register and Trajmar [38]; thick solid line, relativistic; thin solid line, nonrelativistic. (B) Argon at 3 eV: \diamond , Srivastava et al. [39]; thick solid line, relativistic; thin solid line, nonrelativistic. (C) Krypton at 3 eV: \diamond , Srivastava et al. [39]; thick solid line, relativistic; thin solid line, nonrelativistic. (D) Xenon at 1 eV: \diamond , Gibson et al. [40]; thick solid line, relativistic; thin solid line, nonrelativistic.

$$\begin{aligned} \frac{dP}{dr} &= -\frac{\kappa}{r}P(r) + \frac{E - V + 2mc^2}{c\hbar}Q(r), \\ \frac{dQ}{dr} &= -\frac{E - V}{c\hbar}P(r) + \frac{\kappa}{r}Q(r). \end{aligned} \quad (7)$$

It is known that once the asymptotic form of potential $rV(r)$ is achieved we can write the upper (u) and lower (l) spinor radial functions as:

$$\begin{aligned} P(r) &= \cos \delta f^{(u)}(r) + \sin \delta g^{(u)}(r), \\ Q(r) &= \cos \delta f^{(l)}(r) + \sin \delta g^{(l)}(r), \end{aligned} \quad (8)$$

where $f^{(u,l)}(r)$ and $g^{(u,l)}(r)$ are the regular and irregular Dirac spherical Coulomb functions and δ is the phase shift. Defining the logarithmic derivative $L = P'/P$ (exactly as in nonrelativistic quantum scattering theory) for both $P(r)$ and $Q(r)$, we can obtain the spin-up δ_l^+ and spin-down δ_l^- phase shifts. Note that for each value of l greater than zero, there exist two values of κ (see Eq. (6)), and therefore two corresponding equations and two asymptotic solutions for $P(r)$ and $Q(r)$. By convention, δ_l^+ corresponds to $\kappa = -l - 1$ and δ_l^- is the phase shift for $\kappa = l$. Knowing the phase shifts enables us to determine the direct, f , and spin-flip, g , scattering amplitudes

$$\begin{aligned} f(\theta, k) &= \frac{1}{k} \sum_{l=0}^{\infty} [(l+1)e^{i\delta_l^+(k)} \sin \delta_l^+(k) \\ &\quad + le^{i\delta_l^-(k)} \sin \delta_l^-(k)] P_l(\cos \theta) \end{aligned} \quad (9)$$

and

$$\begin{aligned} g(\theta, k) &= \frac{1}{k} \sum_{l=0}^{\infty} [e^{i\delta_l^-(k)} \sin \delta_l^-(k) \\ &\quad - e^{i\delta_l^+(k)} \sin \delta_l^+(k)] P_l^1(\cos \theta). \end{aligned} \quad (10)$$

Here, k is the wave number of the incident electron, demonstrating the energy dependence of the phase shifts. Once the scattering amplitudes are found, the elastic differential cross section can be obtained from the expression

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

The total elastic cross section and the elastic momentum transfer cross section can also be expressed in terms of the spin-up and spin-down phase shifts as

$$\begin{aligned} \sigma_{\text{tot}}^{\text{elas}}(k) &= 2\pi \int_0^\pi d\theta \sin \theta \frac{d\sigma}{d\Omega}(\theta, k) \\ &= \frac{4\pi}{k^2} \sum_{l=0}^{\infty} [(l+1)\sin^2 \delta_l^+(k) + l\sin^2 \delta_l^-(k)] \end{aligned} \quad (12)$$

and

$$\begin{aligned}\sigma_{\text{mom}}^{\text{elas}}(k) &= 2\pi \int_0^\pi d\theta \sin\theta (1 - \cos\theta) \frac{d\sigma}{d\Omega}(\theta, k) \\ &= \frac{4\pi}{k^2} \sum_{l=0}^{\infty} \frac{(l+1)(l+2)}{2l+3} \sin^2[\delta_l^+(k) - \delta_{l+1}^+(k)] \\ &\quad + \frac{l(l+1)}{2l+1} \sin^2[\delta_l^-(k) - \delta_{l+1}^-(k)] \\ &\quad + \frac{(l+1)}{(2l+1)(2l+3)} \sin^2[\delta_l^+(k) - \delta_{l+1}^-(k)].\end{aligned}\quad (13)$$

The relativistic treatment of electron collisions allows us to calculate the asymmetry function or the so-called Sherman function (SF), which describes the measured either left–right or spin-up and spin-down asymmetries in the number of scattered electrons. The expression for the Sherman function in terms of scattering amplitudes is given by [2,3]

$$S(\theta, k) = i \frac{f(\theta, k)g^*(\theta, k) - f^*(\theta, k)g(\theta, k)}{|f(\theta, k)|^2 + |g(\theta, k)|^2}. \quad (14)$$

In the present work, the Sherman function calculations are limited only to the xenon atom. To solve the stationary Dirac equation Eq. (2) for our scattering problem, we must describe the interactions involved in the electron scattering through the potential term of the Dirac Hamiltonian. We note that the rather large energy separation between the elastic and inelastic channels in inert-gas atoms reduces the effect of coupling between the two channels and therefore the leading feature of their interaction can be represented in the form of a long-range polarization potential and a short-range exchange potential, which must be included in the potential term of the Hamiltonian as

$$V(r) = V_S(r) + V_E(r) + V_P(r), \quad (15)$$

where $V_S(r)$, $V_E(r)$, and $V_P(r)$ are the central static atomic, exchange, and polarization potential respectively. The analysis and comparison with a nearly complete collection of all appropriate experimental and theoretical works helped us to investigate the behavior of the differential cross sections under various changes in the effective potential. As a result, we were able to find the best combination of the three potential terms, which could produce a consistent agreement between the calculated DCSs and dependable experimental and theoretical results at different projectile energies. To build this effective potential, we considered various choices for the atomic potential: the numerical Hartree–Fock potential (HF) [4], the analytic potential of Green et al. (GSZ) [5,6], the analytic potential of Salvat et al. [7] and the numerical Dirac–Slater potential (DS) [8]. The considered options for the polarization potential were the Caves–Dalgarno type potential [9], the potential constructed according to O’Connell and Lane [10] and the Buckingham-type potentials. Finally, we considered the free-electron-gas (FEG) and the semi classical (SC) models for the local exchange potential. To give an example of the dramatic effects of different combinations of potentials on the DCS calculations, in Fig. 2, we show comparisons of the calculated DCSs for xenon at 10 eV with different effective potentials. As a result of our analysis, we chose the Dirac–Slater atomic potential for all five atoms in our calculations. The exchange potential for helium was that derived from the FEG model by Hara [11], while for all other atoms we used the SC exchange potential expression by Furness and McCarthy [12]

$$V_E(r) = \frac{1}{2} \left[|E - V_S(r)| - [|E - V_S(r)|^2 + 4\pi\rho(r)]^{\frac{1}{2}} \right], \quad (16)$$

where $V_S(r)$ is the static atomic potential and $\rho(r)$ is the electron charge density; both were determined numeri-

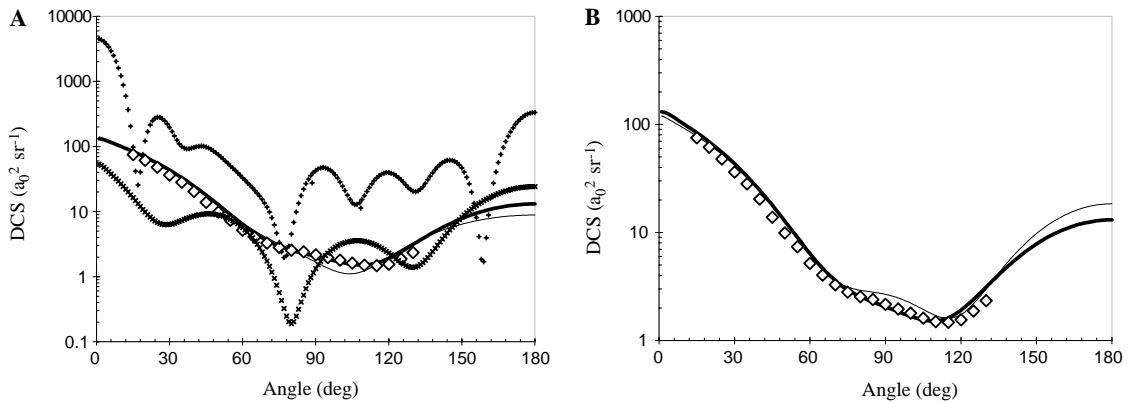


Fig. 2. Studying the effect of different choices of central atomic and exchange potentials on present DCS values for xenon at 10 eV. (A) Comparison with experimental values while the central atomic potential varies, but Exchange (SC) and polarization (Buckingham-type II) potential remain unchanged: \diamond , Gibson et al. [40]; thick solid line, DS potential [8]; thin solid line, Salvat et al. potential [7]; +, HF potential; \times , Green et al. potential [5,6]. (B) Comparison with experimental values while the exchange potential varies, but Central atomic (DS) and polarization (Buckingham-type II) potential remain unchanged: \diamond , Gibson et al. [40]; thick solid line, SC exchange potential; thin solid line, FEG exchange potential.

cally in DS approximation for our calculations. The preferred polarization potential for helium was the Buckingham-type I, given by

$$V_P(r) = -\frac{\alpha_d r^2}{2(r^3 + r_c^3)^2} \quad (17)$$

and for the other atoms the favored polarization potential turned out to be the Buckingham-type II

$$V_P(r) = -\frac{\alpha_d}{2(r^2 + r_c^2)^2}. \quad (18)$$

Here, α_d is the static atomic polarizability and r_c is the cutoff radius, which was determined separately for each atom. The static polarizabilities for all five atoms were taken from the theoretical calculations of Kolb et al. [13], since they consistently showed a more realistic polarization effect in our calculations, particularly in the forward direction scattering. As noted, the above-mentioned polarization models include a cutoff radius r_c , which in our calculations was determined as an energy-dependent parameter for the preferred polarization potential model. To find a reasonable value for the cutoff radius r_c , we first fitted the suitable experimental and theoretical data by varying r_c at different energies and for all atoms with the constraint that $r_c(E)$ be a smooth, continuous, and finite function of the scattered electron energy E . Through an exhaustive number of calculations we found that the optimal cutoff radii had remarkable and simple energy dependences in the form

$$r_c(E) = a + bE, \quad \text{for He} \quad (19)$$

and

$$r_c(E) = a + \frac{1}{3} \ln \left(\frac{E}{E_1} \right), \quad \text{for Ne, Ar, Kr, and Xe}, \quad (20)$$

where a is about equal to the expectation value $\langle r \rangle_{nl}$ of the last filled shell of the corresponding atom and E_1 is the target ionization energy. Distances are given in atomic units (a_0) and energies are in electron volts (eV) throughout this paper. This cutoff radius worked well for both the relativistic and nonrelativistic calculations. Once the effective potential for each atom became known, the numerical solution to the Dirac radial equation was obtained by using Bühring's power series method [14]. The Dirac–Slater code of Salvat and Mayol [8] was used to obtain the central atomic potential $V_S(r)$, as well as the electronic density $\rho(r)$ and radial atomic orbital wave functions necessary for the calculation of the exchange potential. The code used for the phase shift calculations was a modification of the program by Salvat et al. [15], adapted to include the effects of electron exchange and target polarization. We used 150 partial-wave phase shifts for all considered energies; this ensured that the last spin-up or spin-down phase shift was less than 10^{-6} . For the nonrelativistic calculations, the results of which we used

for comparison (but do not present here), we modified the program by Schultz and Reinhold [16] and included our choices for the numerical effective potential. It worked very well for the helium atom but the differences with the results of the relativistic approach for other atoms were not negligible, as shown in Fig. 1, particularly at low impact energies.

3. Differential cross sections

We now present our results and comparisons with other works for the differential cross sections and discuss each atom separately.

3.1. Helium

For helium, the optimal values of cutoff radius can be expressed in the simple analytical form

$$r_c(E) = 0.04 \left(\frac{E}{\mathcal{R}} \right) + 0.73, \quad (21)$$

where \mathcal{R} is the Rydberg energy ($\mathcal{R} = 13.60569172$ eV), and E is the energy of the incident electron in eV. Note that the $0.04a_0$ coefficient of this linear cutoff is comparable to the electron's Compton wavelength $\lambda_C = 2\pi\alpha a_0 \approx 0.045a_0$, and the constant value in this expression is close to $\langle r \rangle_{1s} = 0.94a_0$, which is the expectation value of the helium 1s shell radius. Using this energy-dependent cutoff radius, and the recommended effective potential, we were able to achieve very good agreement with experimental and other precise theoretical values. Our DCS results are compared with other calculations and experimental values in Graphs 1 and 2. We should expect some discrepancies between our DCS values and experimental measurements in the intermediate energy range, where all channels are open and inelastic scattering, ionization, and other processes are competing with the elastic scattering process, since our method of calculations is a single channel approximation and ignores the effect of loss of flux through open channels. Generally, there is very good agreement between our calculations and both experimental and theoretical values. Our results compare well with the close-coupling calculations of Fursa and Bray [17], R -matrix calculations of Fon et al. [18], RMPS calculations of Bartschat et al. [19] (not shown in figures for clarity) and variational approach of Nesbet [20]. Furthermore, our results favor, among all other experiments, those of Brunger et al. [21] in the intermediate energy range $25 < E < 80$ eV and particularly in the forward direction scattering. At high impact energies, a large number of calculations have been carried out, generally using high-energy approximations (e.g., Born approximation), yielding good qualitative agreement with experiment. Our results are also in very good agreement with the experimental values in this energy range.

3.2. Neon

The values of cutoff radius that we found to work the best for neon follow a different, compared to that of helium, yet simple analytical behavior:

$$r_c(E) = \begin{cases} \frac{1}{3} \ln \left(\frac{E}{E_1} \right) + \langle r \rangle_{2p}, & E \geq 25 \text{ eV}, \\ 0.98, & E < 25 \text{ eV}, \end{cases} \quad (22)$$

where $E_1 = 21.559 \text{ eV}$ is the ionization energy for neon [22], E is the energy of the incident electron in eV, and $\langle r \rangle_{2p} = 0.932a_0$ is the expectation value of the neon 2p shell radius. This cutoff radius assumes a constant value for low energies to prevent logarithmic anomaly in the limit of small energies. The results of our calculations are shown in Graphs 3 and 4. To gain a better understanding of the behavior of neon's DCS as a function of the incident electron energy, we refer the reader to the comprehensive discussion given in Fon and Berrington [23]. Our DCSs exhibit an excellent agreement with experimental measurements, the R -matrix values of Fon and Berrington [23], and the theoretical data of McEachran and Stauffer [24]. Our systematic study of neon's DCS seems to reject the data by Wagenaar et al. [25] in the forward direction and suggests lower values for small scattering angles.

3.3. Argon

The values of cutoff radius for argon follow the same functional behavior as that for neon

$$r_c(E) = \begin{cases} \frac{1}{3} \ln \left(\frac{E}{E_1} \right) + \langle r \rangle_{3p}, & E \geq 15 \text{ eV}, \\ 1.50, & E < 15 \text{ eV}, \end{cases} \quad (23)$$

where $E_1 = 15.76 \text{ eV}$ is the ionization energy for argon [26], E is the energy of the incident electron in eV, and $\langle r \rangle_{3p} = 1.59a_0$ is the expectation value of the argon 3p shell radius. Similar to neon, the cutoff radius for argon assumes a constant value for low energies, to prevent logarithmic anomaly in the limit of small energies. Our calculations showed that this constant value could be obtained even in the absence of experimental data, since it was the only value that could give a reasonable Ramsauer–Townsend minimum in the integral cross section values. Our results are shown in Graphs 5 and 6. Our DCS values are in very good agreement with the theoretical data of Fon et al. [27], McEachran and Stauffer [24], and Sienkiewicz and Baylis [28] (not shown in figures for clarity). Comparisons of our DCSs with measurements show an excellent agreement at all energies except, maybe, for 100 eV. Although we correctly predict the locations of the double-minima, our DCS values at 100 eV are higher than the experimental and other theoretical values. Fon et al. [27] gives a comprehensive discussion on the behavior of argon's DCS, and the origin of DCS maxima and minima at different energies.

3.4. Krypton

The functional behavior of the cutoff radius for krypton remains the same as that of neon and argon

$$r_c(E) = \begin{cases} \frac{1}{3} \ln \left(\frac{E}{E_1} \right) + \langle r \rangle_{4p}, & E \geq 10 \text{ eV}, \\ 1.75, & E < 10 \text{ eV}, \end{cases} \quad (24)$$

where $E_1 = 14.00 \text{ eV}$ is the ionization energy for krypton [29], E is the energy of the incident electron in eV, and $\langle r \rangle_{4p} = 1.87a_0$ is the expectation value of the krypton 4p shell radius. The energy below which the cutoff radius takes a constant value is lower than those of neon and argon. Comparisons of our DCS results with other calculations and experimental measurements are shown in Graphs 7 and 8. Our DCS values are in excellent agreement with experimental measurements and the theoretical calculations of Fon et al. [30], McEachran and Stauffer [31] and Sienkiewicz and Baylis [32] (not shown in figures for clarity). One notes that the DCS curve changes its shape very rapidly over a narrow energy range from 30 to 100 eV. Hence, a satisfactory description of these cross sections demands angular and energy resolution of higher precision than available from the experiments. An extensive discussion of the origin of DCS maxima and minima in different energy ranges is given by Fon et al. [30].

3.5. Xenon

The energy dependence of the cutoff radius also remains the same for xenon

$$r_c(E) = \begin{cases} \frac{1}{3} \ln \left(\frac{E}{E_1} \right) + \langle r \rangle_{5p}, & E \geq 2.75 \text{ eV}, \\ 2.23, & E < 2.75 \text{ eV}, \end{cases} \quad (25)$$

where $E_1 = 12.13 \text{ eV}$ is the ionization energy for xenon [33,34], E is the energy of the incident electron in eV, and $\langle r \rangle_{5p} = 2.23a_0$ is the expectation value of the xenon 5p shell radius. The cutoff radius assumes its constant value at a lower energy compared to the other atoms of this family. Comparisons of our DCS results with other theoretical and experimental values are shown in Graphs 9 and 10. Our DCS values are in good agreement with experimental measurements and the theoretical results of McEachran and Stauffer [31], and Sienkiewicz and Baylis [35] (not shown in figures for clarity). The present work also produced results for scattering of spin-polarized electrons from spin-unpolarized xenon atoms in terms of the Sherman functions. In the elastic scattering from noble-gas atoms, the left–right or spin-up and spin-down scattering asymmetry, which is a sensitive spin dependent observable, can only be caused by the spin–orbit interaction of the continuum electron in the field of the target atom (the so-called Mott scattering). In the case of the electron scattering from a heavy atom such as xenon, the spin–orbit effects

are sufficiently large to produce detectable changes in the spin polarization of the scattered electrons. After earlier difficulties with measuring these changes, new experimental techniques have enabled experimentalists to claim good accuracy in such measurements. As a result, we make comparisons only with the relatively new experimental measurements. Contrary to the inconsistencies found by Müller and Kessler [36] in the comparisons between some theoretical results and the experimental values, our calculated Sherman functions for various energies are in very good agreement with the experimental measurements for xenon, as shown in Graphs 11 and 12. The discrepancy between theory and experiment for 150 eV and around 110° scattering angle is due to the inelastic processes of excitation and ionization, for which we did not account. Dorn et al. [37] have shown that this problem can be avoided by adding a phenomenological absorption term to the potential (see Tables 1–5).

4. Total and momentum transfer cross sections

In addition to differential cross sections, total and momentum transfer cross sections were calculated for the elastic electron scattering from inert gases. The TCS and MTCS values have been calculated for a vast energy range, from 0.01 to 1000 eV, which clearly show the existence of the Ramsauer–Townsend minimum at very low energies for argon, krypton, and xenon. The present elastic total and momentum transfer cross sections with comparisons are shown in Graphs 2, 4, 6, 8, and 11. Generally, our results compare well with experimental and other theoretical values, except for argon. There is a noticeable discrepancy between our TCS and MTCS values for argon and the experimental results for energies below 0.09 eV. Our TCS values for krypton also seem to contradict a few experimental points in very low energy region. To gain a better visualization of the behavior of differential cross section as a function of projectile's energy and scattering angle, we present, in the aforementioned graphs, three-dimensional (3D) graphs of the logarithm (\log_{10}) of DCS versus logarithm of the energy and the scattering angle for each atom. These 3D plots demonstrate the complexity of the DCS values, particularly for the heavier atoms, as the energy evolves from 1 to 1000 eV (see Tables 6–7).

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Appendix A. Supplementary data

In addition to the DCS tables of the published print version of this paper, supplementary data for differential cross sections are provided in electronic format. The supplementary data files contain DCS tables at a finer energy grid. The energy interval is variable throughout the energy range and its implementation differs for each atom. Such an energy grid is chosen so that good agreement between the DCS from the direct calculation and the DCS from interpolation can be obtained. One should expect a maximum error of 1.77%, when a cubic spline interpolation is performed on the data to obtain DCS at arbitrary energy and angle. The tables in the supplementary data files are arranged in the same format as of those of the printed version of the paper. Therefore the same explanation of tables applies. Supplementary data associated with this article can be found, in the online version, at doi:10.1016/j.adt.2005.07.004

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Explanation of Graphs

The graphs display the present results and provide comparisons with available experimental and theoretical data. To keep the graphs readable, the error bars in some of the experimental data have been omitted, entirely or partially. In the case of no error bars, the markers are chosen large enough as if the corresponding error bars were present. Note that for few experimental works, the estimated error was unavailable.

Explanation of Tables

Table 1. Differential cross sections for elastic electron scattering from helium.

The differential cross sections for the specified incident electron energies are listed in columns. The angles are in degrees, the energies are in eV, and the differential cross sections are in atomic units, $a_0^2 \text{sr}^{-1}$. The values of differential cross sections are written in the scientific format of the most current spreadsheets. For example, 123.456E+03 reads as 123.456×10^3 .

Table 2. Differential cross sections for elastic electron scattering from neon.

The explanations are the same as in Table 1.

Table 3. Differential cross sections for elastic electron scattering from argon.

The explanations are the same as in Table 1.

Table 4. Differential cross sections for elastic electron scattering from krypton.

The explanations are the same as in Table 1.

Table 5. Differential cross sections for elastic electron scattering from xenon.

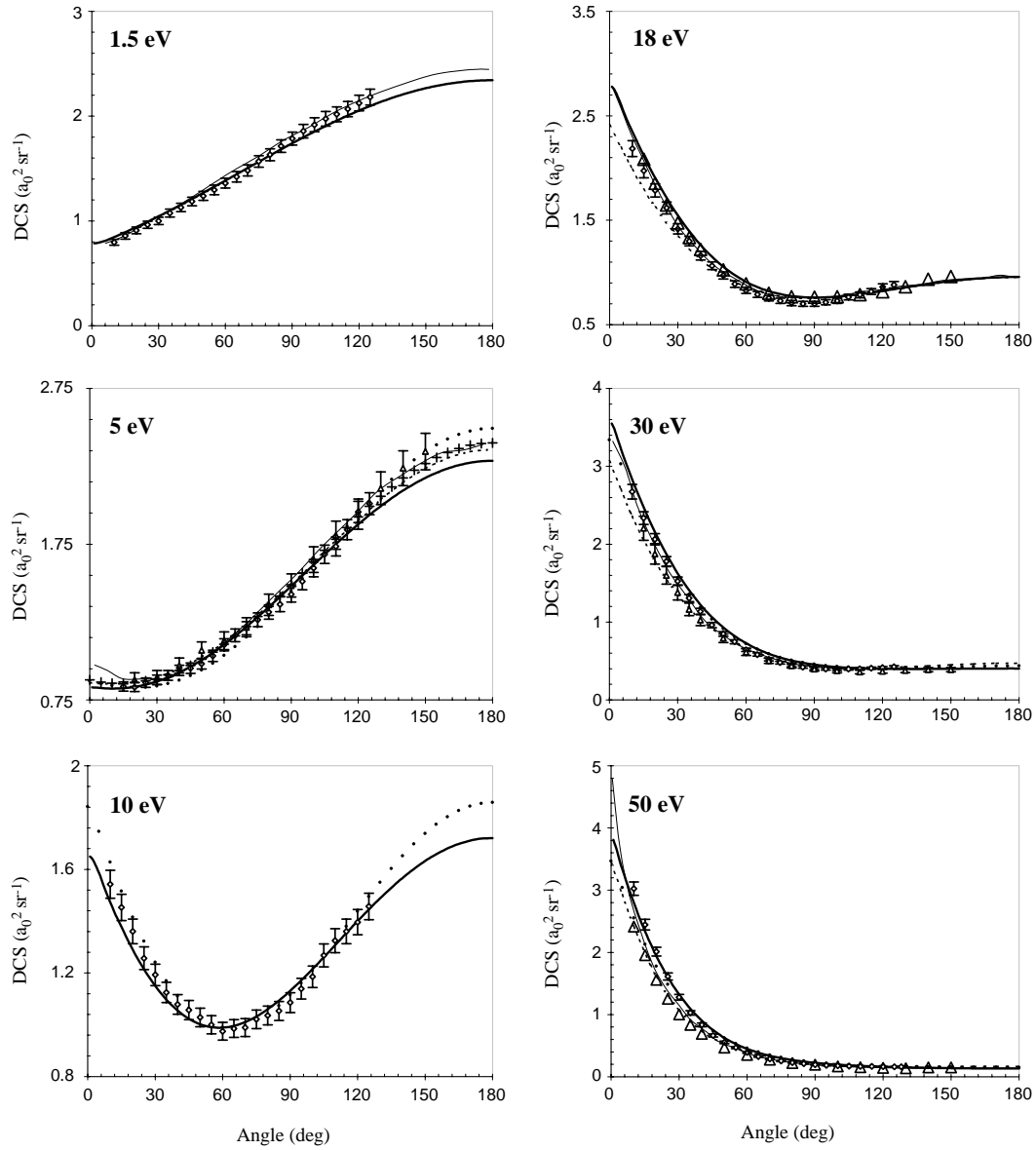
The explanations are the same as in Table 1.

Table 6. Total cross sections for elastic electron scattering from inert gases.

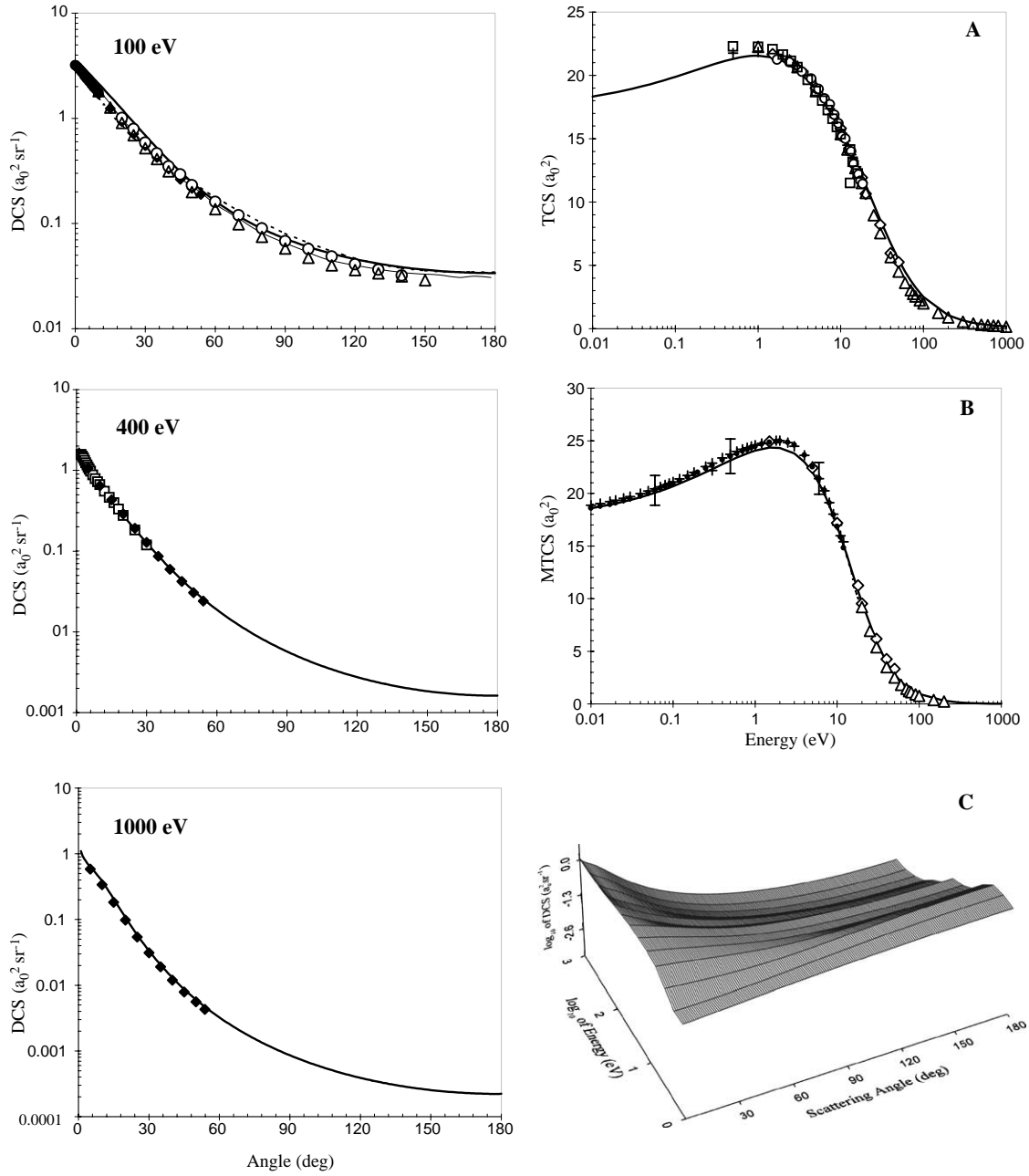
The values of total cross sections are listed in columns and the name of the corresponding atom is above each column. The TCS values are in atomic units, a_0^2 , and the incident electron kinetic energies, E 's, are in eV. The number format is the same as that described in Table 1.

Table 7. Momentum transfer cross sections for elastic electron scattering from inert gases.

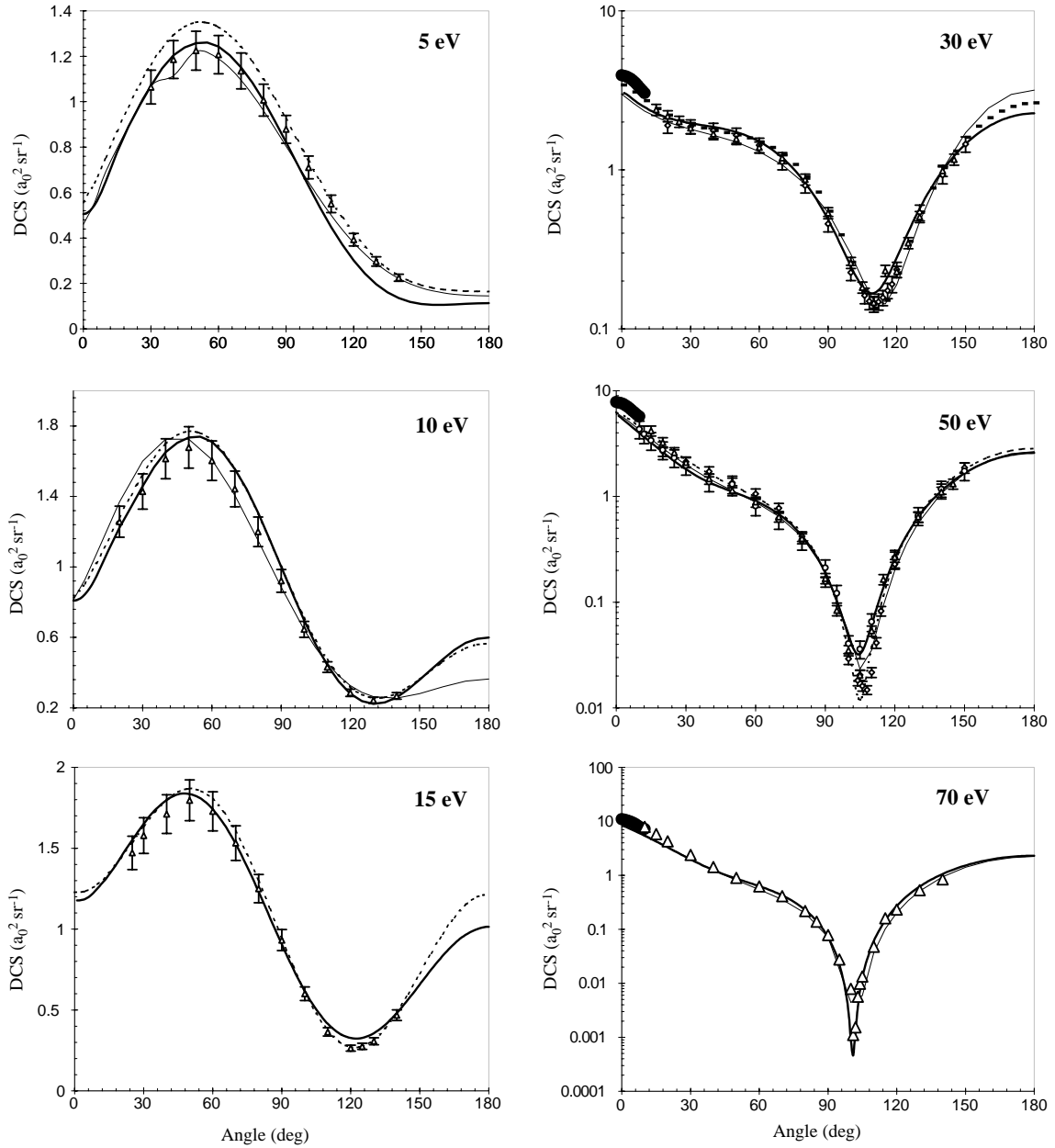
The values of momentum transfer cross sections are listed in columns and the name of the corresponding atom is above each column. The MTCS values are in atomic units, a_0^2 , and the incident electron kinetic energies, E 's, are in eV. The number format is the same as that described in Table 1.



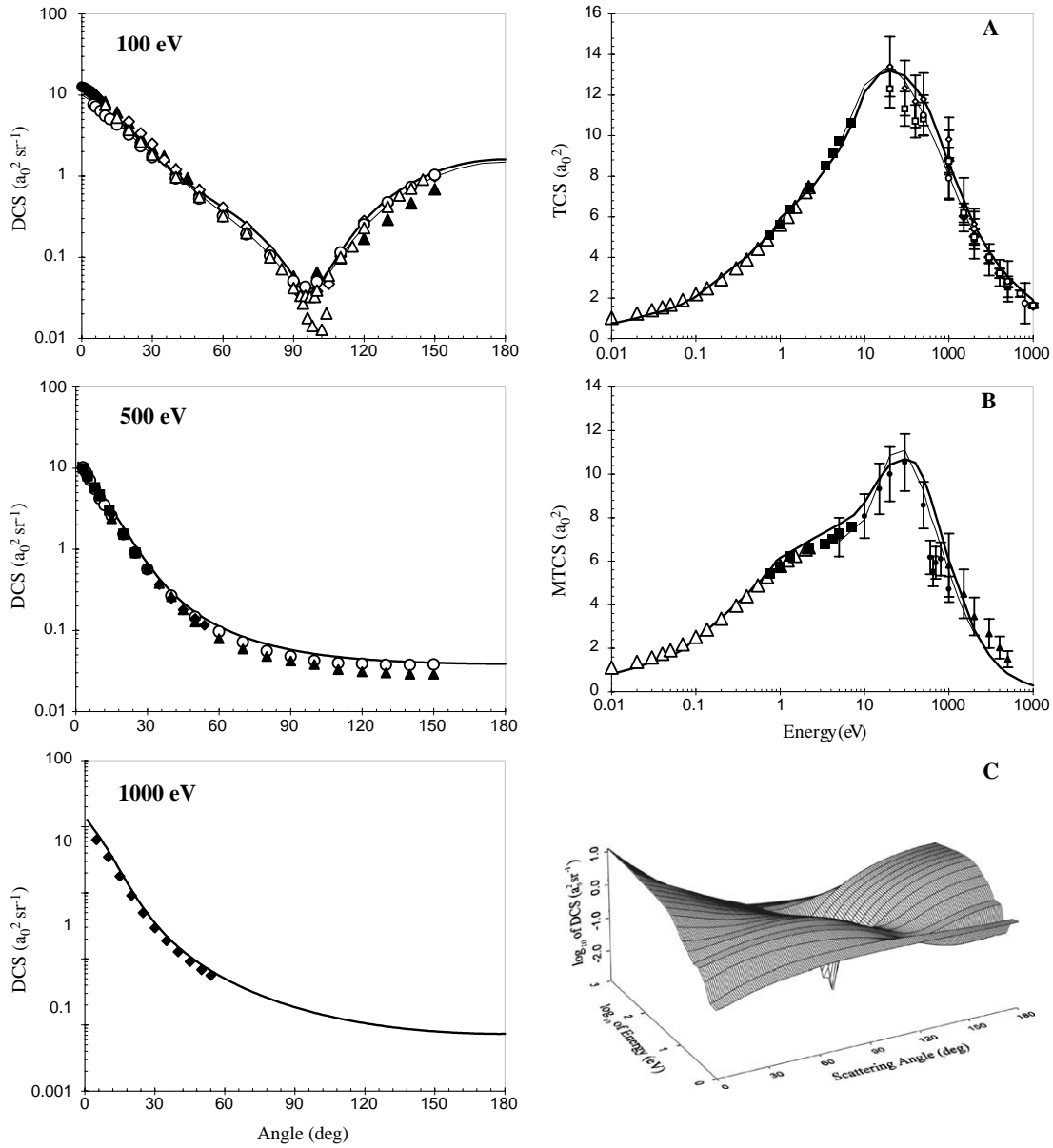
Graph 1. Differential cross sections for elastic electron scattering from helium at various energies: thick solid line, present work; experimental data: \diamond , Brunger et al. [21]; \triangle , Register et al. [41]; other theoretical: dashed line, Fon et al. [18]; \bullet , McEachran and Stauffer [42]; $+$, Nesbet [20]; thin solid line, Fursa and Bray [17]. See page 17 for Explanation of Graphs.



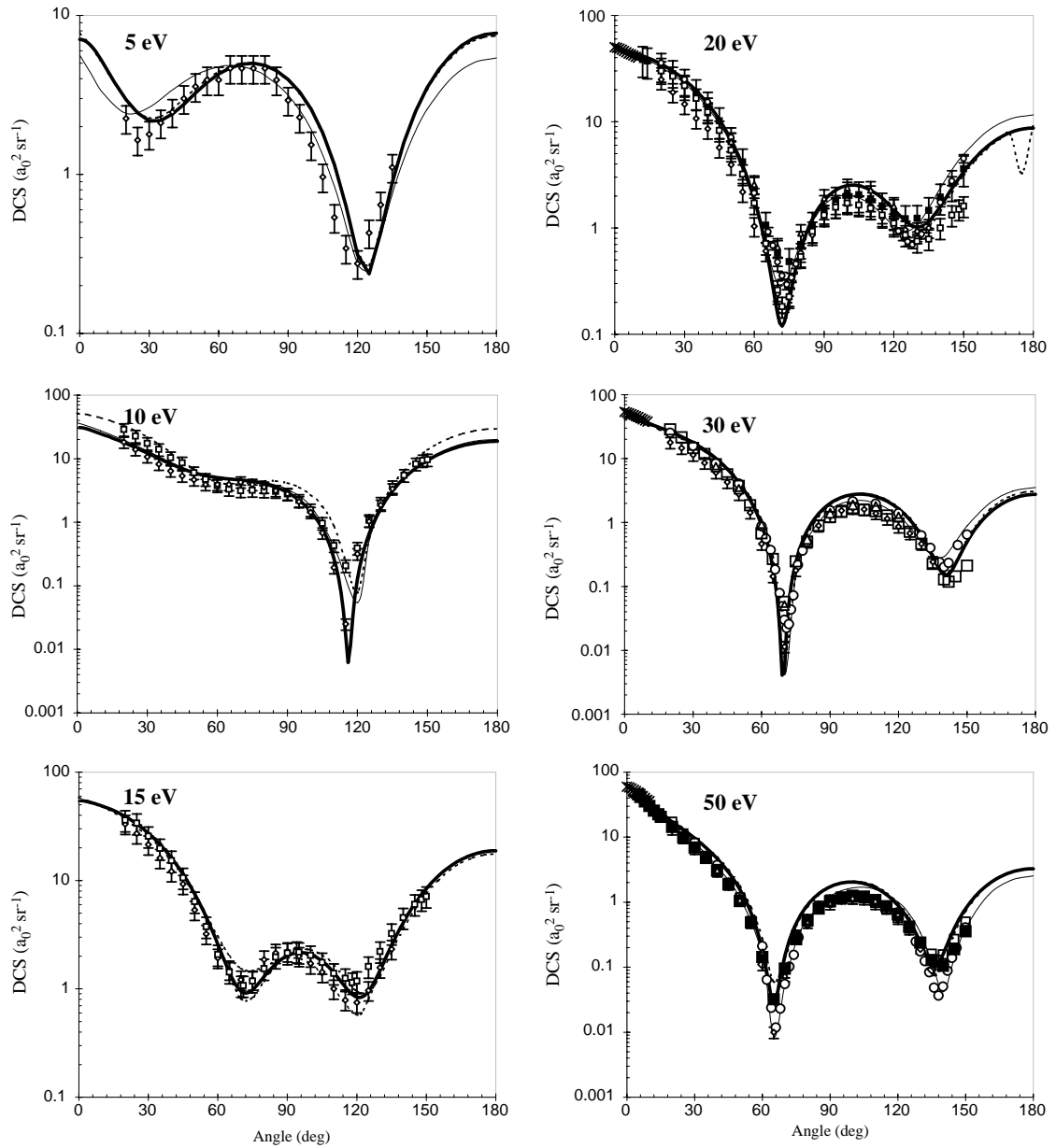
Graph 2. Differential cross sections at 100, 400, and 1000 eV, (A) total cross section, (B) momentum transfer cross section, and (C) a 3D view of DCS for elastic electron scattering from helium. *Legend for DCS graphs:* thick solid line, present work; experimental data: \square , Bromberg [43]; \triangle , Register et al. [41]; \blacklozenge , Jansen et al. [44]; \bullet , Wagenaar et al. [25]; \circ , Gupta and Rees [45]; other theoretical: dashed line, Fon et al. [18]; thin solid line, Fursa and Bray [17]. *Legend for TCS and MTCS graphs:* thick solid line, present work; experimental data: \circ , Kauppila et al. [46]; \square , Kennerly and Bonham [47]; \bullet , Crompton et al. [48] and Milloy and Crompton [49]; \triangle , Register et al. [41]; \diamond , Brunger et al. [21]; other theoretical: dashed line, Fon et al. [18]; $+$, Nesbet [20]. See page 17 for Explanation of Graphs.



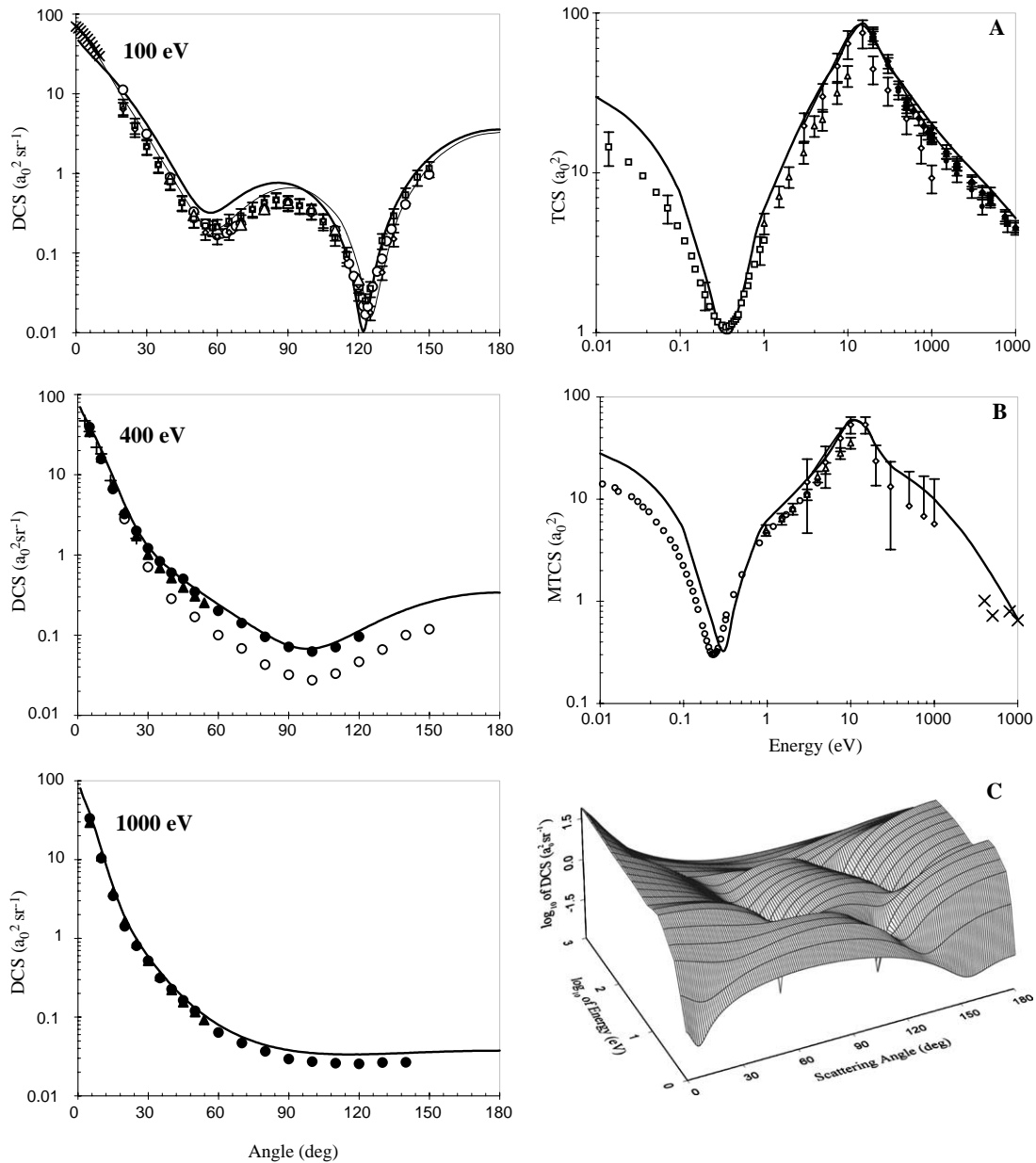
Graph 3. Differential cross sections for elastic electron scattering from neon at various energies: thick solid line, present work; experimental data: Δ , Register and Trajmar [38]; \bullet , Wagenaar et al. [25]; \diamond , Williams and Crow [50]; \circ , Dubois and Rudd [51]; other theoretical: thin solid line, Fon and Berrington [23]; dashed line, McEachran and Stauffer [24]. See page 17 for Explanation of Graphs.



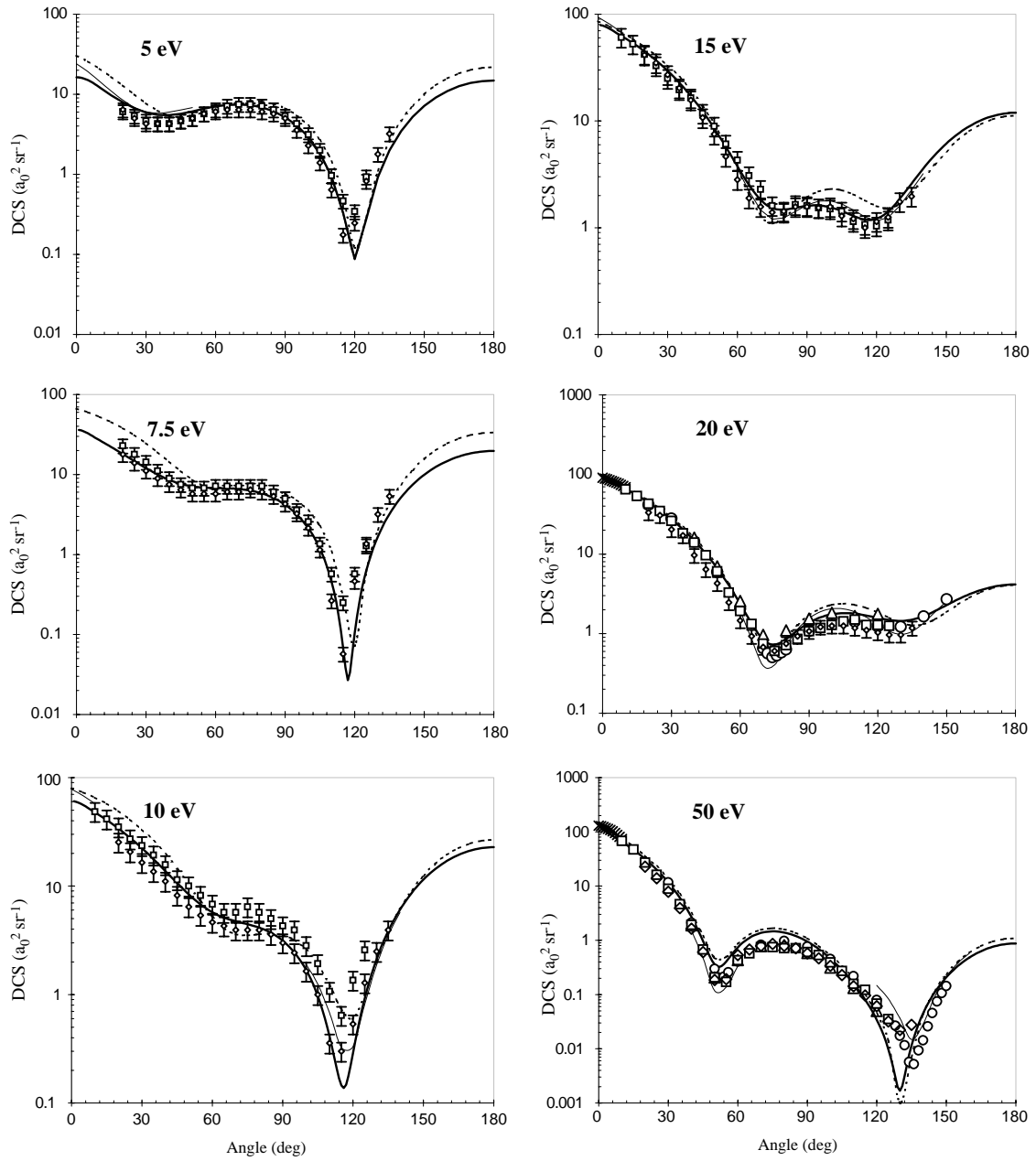
Graph 4. Differential cross sections at 100, 500, and 1000 eV, (A) total cross section, (B) momentum transfer cross section, and (C) a 3D view of DCS for elastic electron scattering from neon. *Legend for DCS graphs:* thick solid line, present work; experimental data: \triangle , Register and Trajmar [38]; \bullet , Wagenaar et al. [25]; \diamond , Williams and Crow [50]; \circ , Dubois and Rudd [51]; \blacklozenge , Jansen et al. [44]; \blacksquare , Bromberg [43]; \blacktriangle , Gupta and Rees [52]; other theoretical: thin solid line, Fon and Berrington [23]; dashed line, McEachran and Stauffer [24]. *Legend for TCS and MTCS graphs:* thick solid line, present work; experimental data: \square , de Heer et al. [53]; \blacksquare , Gulley et al. [54]; \triangle , O'Malley and Crompton [55]; \bullet , Register and Trajmar [38]; \diamond , Williams and Crow [50]; \blacklozenge , Jansen et al. [44]; \blacktriangle , Gupta and Rees [52]; \circ , Dubois and Rudd [51]; other theoretical: thin solid line, Fon and Berrington [23]. See page 17 for Explanation of Graphs.



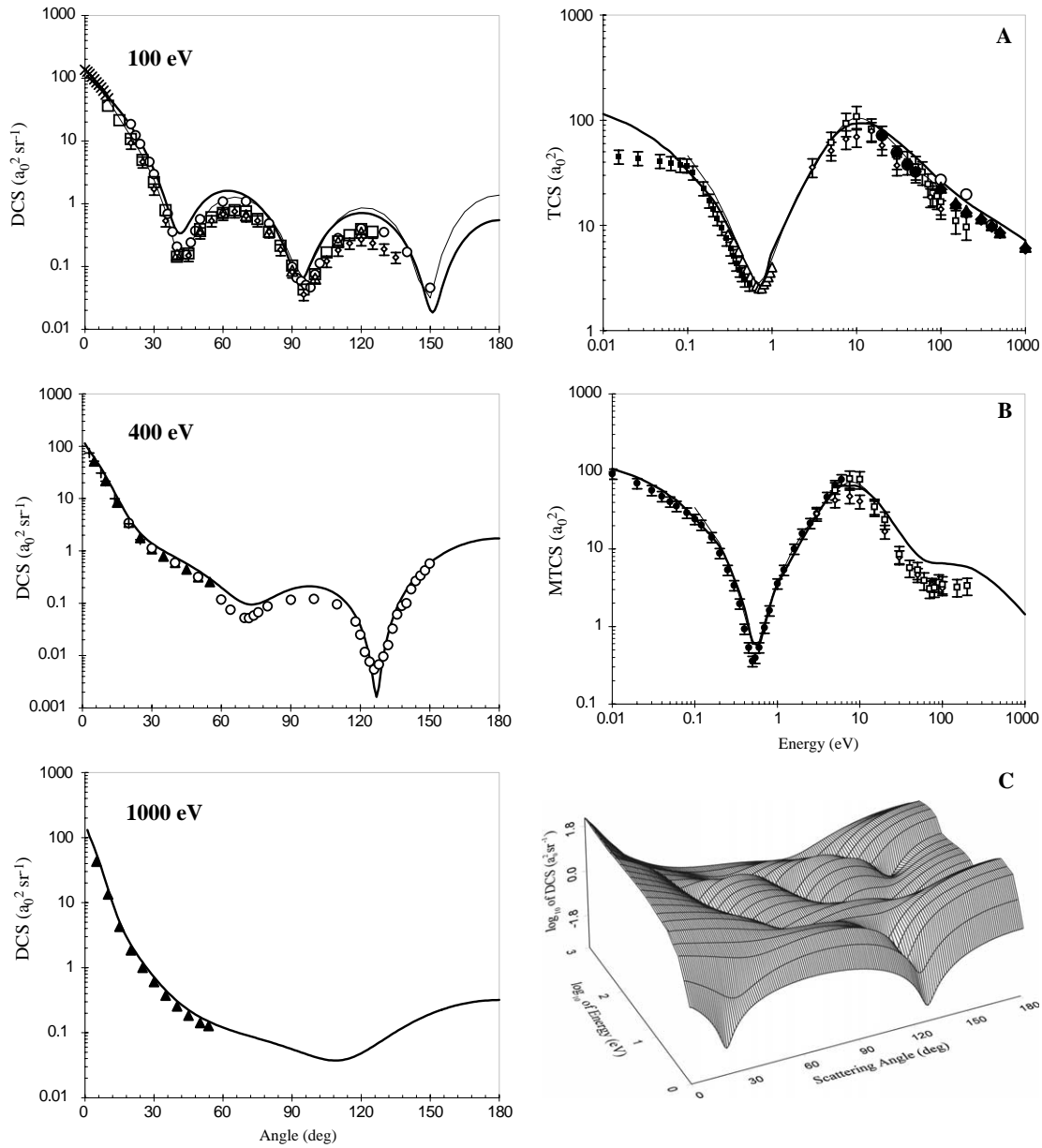
Graph 5. Differential cross sections for elastic electron scattering from argon at various energies: thick solid line, present work; experimental data: \diamond , Srivastava et al. [39]; \triangle , Cvejanovic and Crowe [56]; \times , Wagenaar et al. [25]; \circ , Williams and Willis [57]; \square , Panajotovic et al. [58]; \blacksquare , Dubois and Rudd [51]; other theoretical: thin solid line, Fon et al. [27]; dashed line, McEachran and Stauffer [24]. See page 17 for Explanation of Graphs.

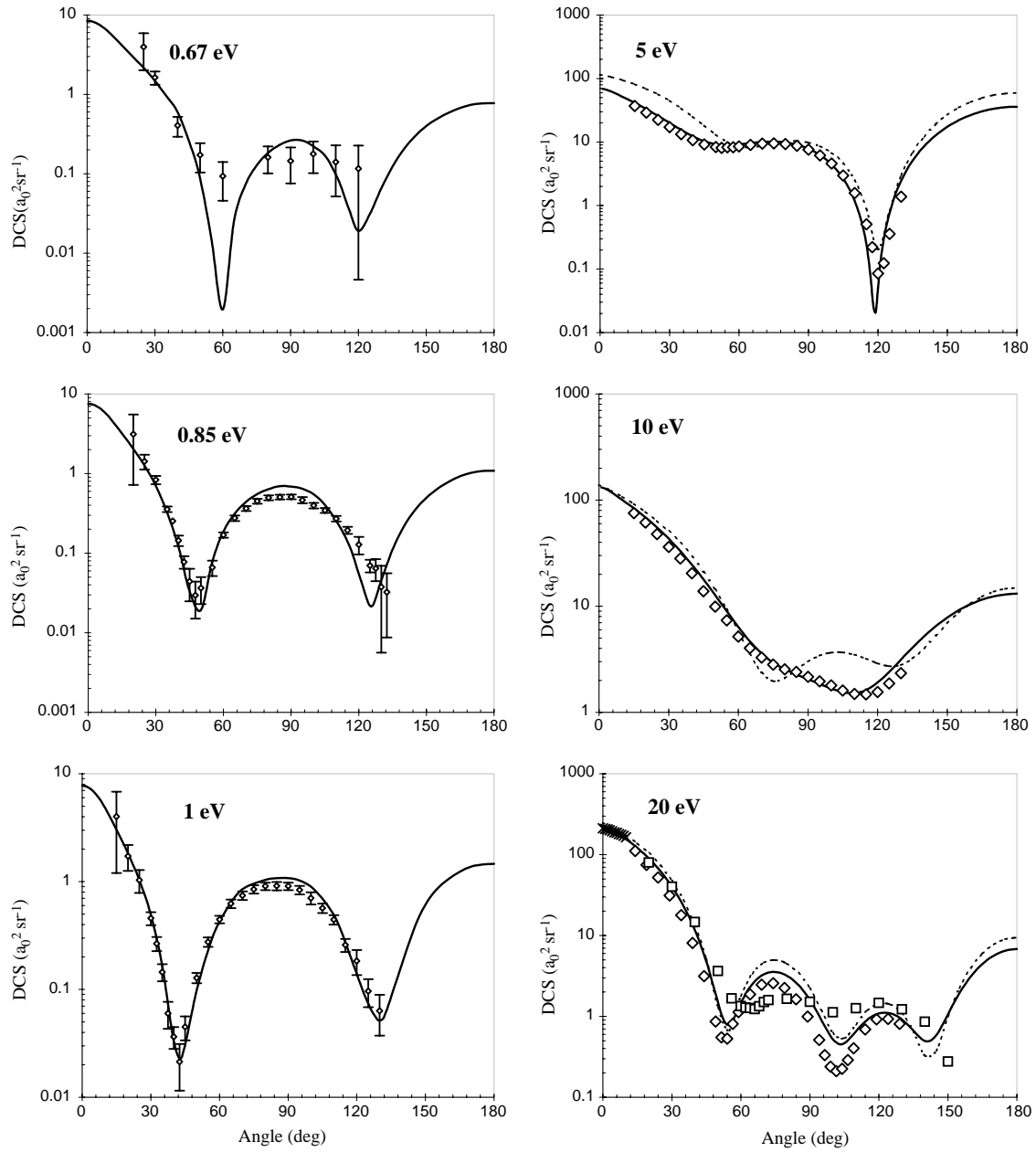


Graph 6. Differential cross sections at 100, 400, and 1000 eV, (A) total cross section, (B) momentum transfer cross section, and (C) a 3D view of DCS for elastic electron scattering from argon. *Legend for DCS graphs:* thick solid line, present work; experimental data: \diamond , Srivastava et al. [39]; \triangle , Cvejanovic and Crowe [56]; $+$, Bromberg [43]; \times , Wagenaar et al. [25]; \circ , Williams and Willis [57]; \square , Panajotovic et al. [58]; \blacksquare , Dubois and Rudd [51]; \bullet , Iga et al. [59]; \blacktriangle , Jansen et al. [44]; other theoretical: thin solid line, Fon et al. [27]; dashed line, McEachran and Stauffer [24]. *Legend for TCS and MTCS graphs:* \square , Buckman and Lohman [60]; \triangle , Gibson et al. [61]; \circ , Milloy and Crompton [49]; \blacklozenge , de Heer et al. [53]; \bullet , Williams and Willis [57]; \blacktriangle , Jansen et al. [44]; \blacksquare , Dubois and Rudd [51]; \diamond , Srivastava et al. [39]; \times , Iga et al. [59]; other theoretical: thin solid line, Fon et al. [27]. See page 17 for Explanation of Graphs.

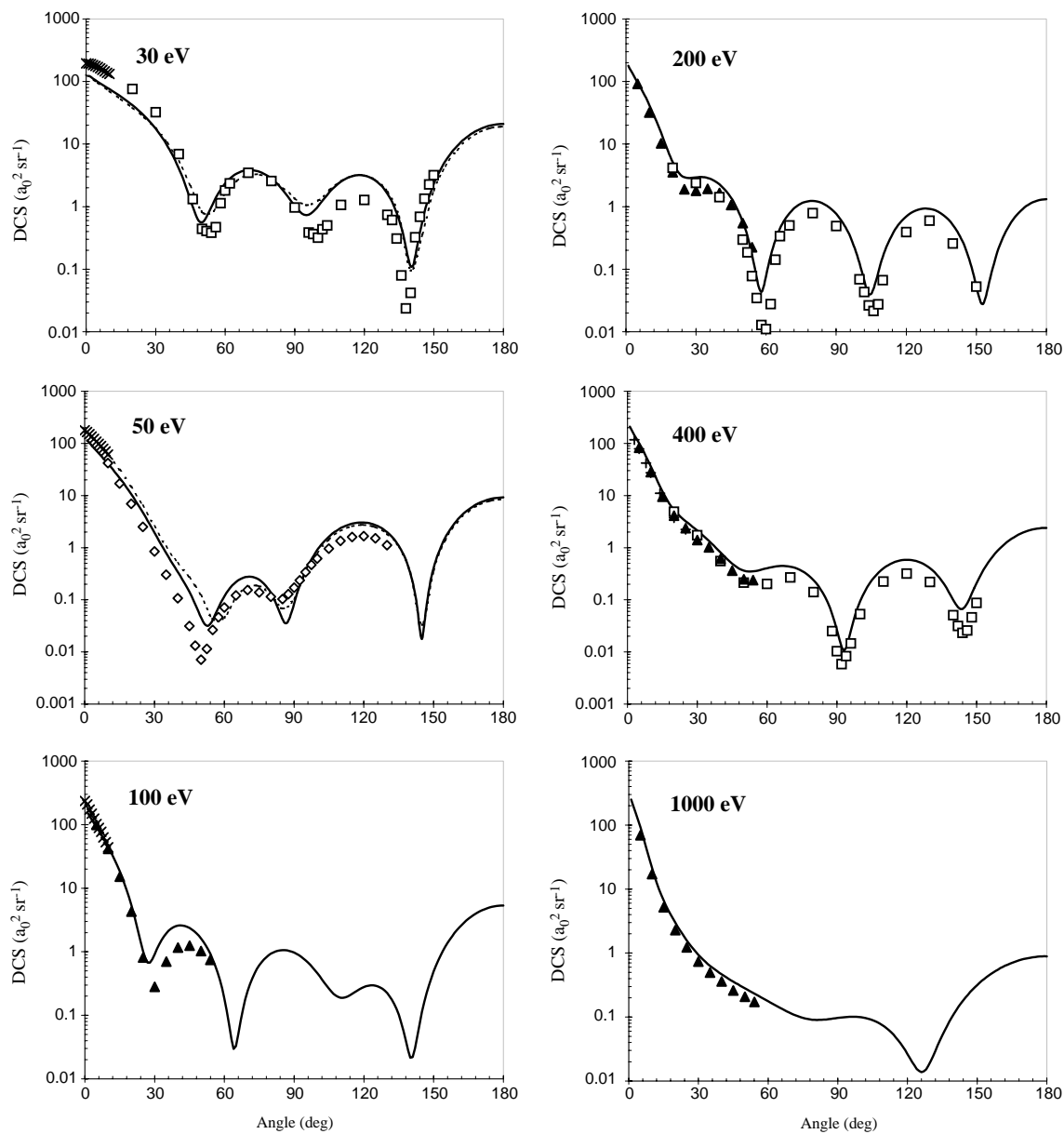


Graph 7. Differential cross sections for elastic electron scattering from krypton at various energies: thick solid line, present work; experimental data: \diamond Srivastava et al. [39]; \triangle , Cvejanovic and Crowe [56]; \times , Wagenaar et al. [25]; \circ , Williams and Crowe [50]; \square , Danjo [62]; other theoretical: thin solid line, Fon et al. [30]; dashed line, McEachran and Stauffer [31]. See page 17 for Explanation of Graphs.

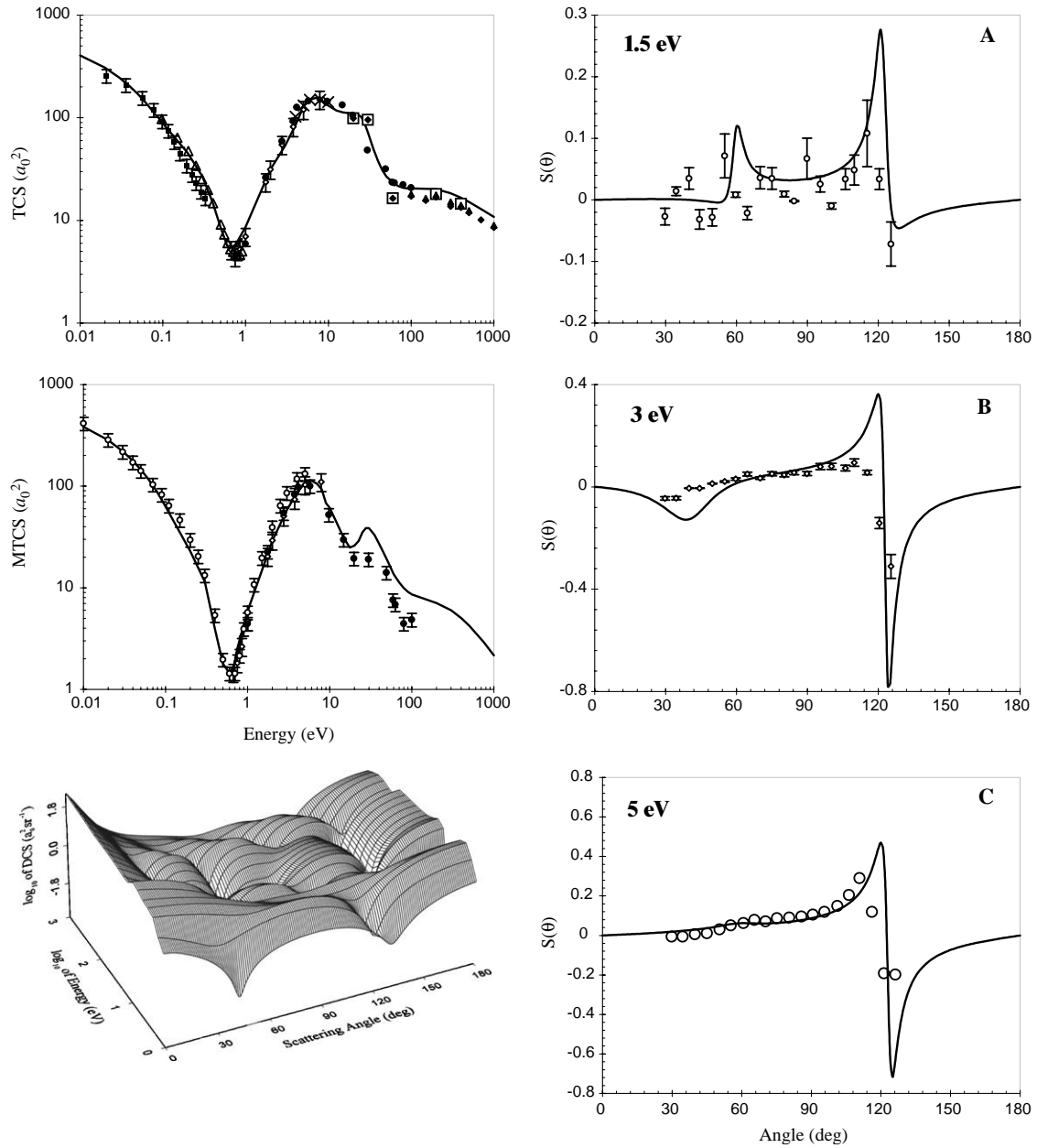




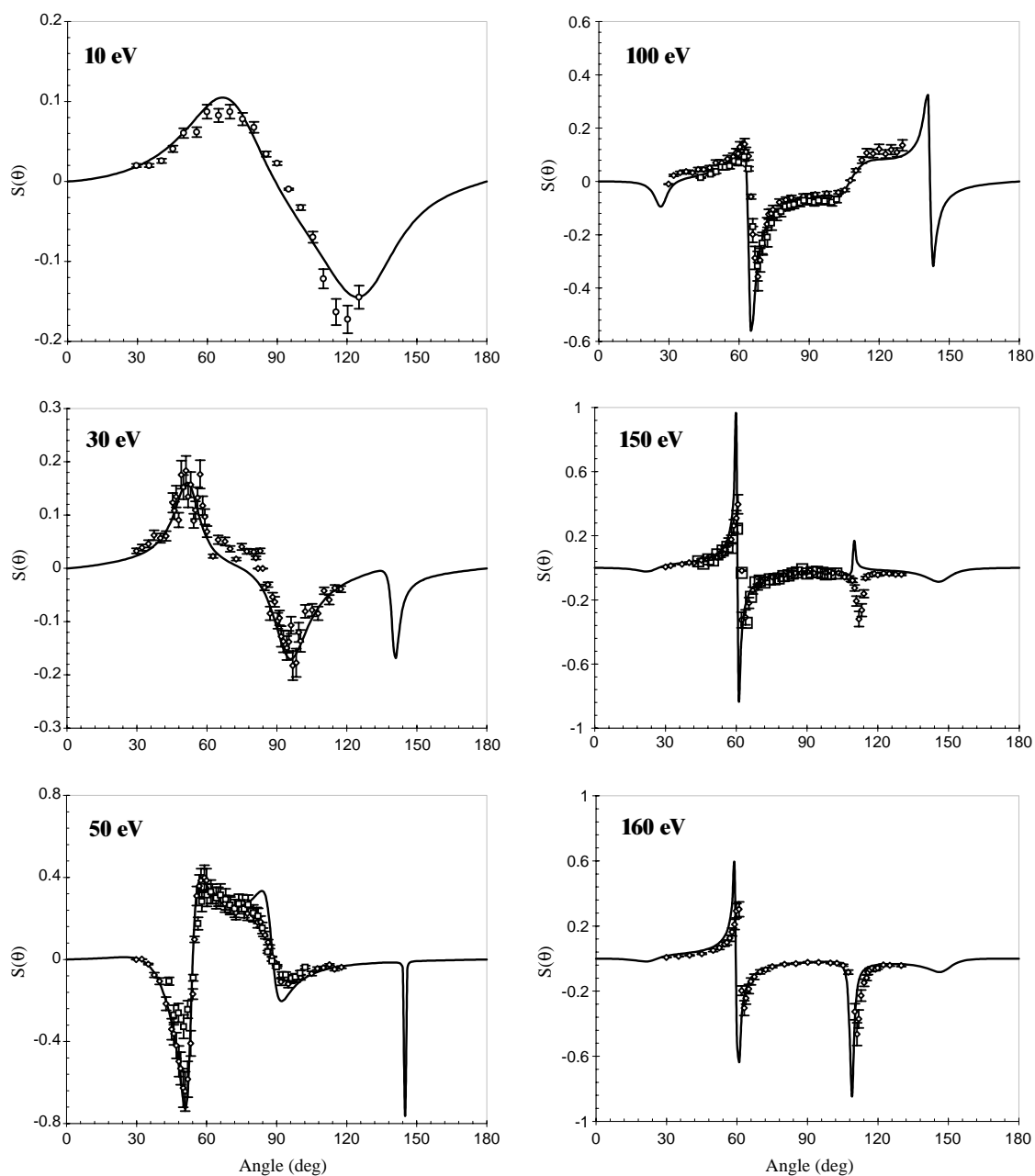
Graph 9. Differential cross sections for elastic electron scattering from xenon at various energies: thick solid line, present work; experimental data: \diamond , Gibson et al. [40]; \times , Wagenaar et al. [25]; \square , Williams and Crowe [50]; other theoretical: dashed line, McEachran and Stauffer [31]. See page 17 for Explanation of Graphs.



Graph 10. Differential cross sections for elastic electron scattering from xenon at various energies: thick solid line, present work; experimental data: \diamond , Gibson et al. [40]; \blacktriangle , Jansen and de Heer [63]; \times , Wagenaar et al. [25]; \square , Williams and Crowe [50]; $+$, Bromberg [43]; other theoretical: dashed line, McEachran and Stauffer [31]. See page 17 for Explanation of Graphs.



Graph 11. Sherman functions at 1.5, 3, and 5 eV (A) total cross section, (B) momentum transfer cross section, and (C) a 3D view of DCS for elastic electron scattering from xenon. *Legend for Sherman function graphs:* thick solid line, present work; experimental data: \circ , Dümmler et al. [67]; \diamond , Dorn et al. [37]; \square , Müller and Kessler [36]. *Legend for TCS and MTCS graphs:* thick solid line, present work; experimental data: \diamond , Gibson et al. [40]; \blacktriangle , Jansen and de Heer [63]; \square , Williams and Crowe [50]; \blacklozenge , de Heer et al. [53]; \circ , Koizumi et al. [66]; \triangle , Jost et al. [64]; \blacksquare , O'Malley [65]; \bullet , Register et al. [68]; \times , Nickel et al. [69]. See page 17 for Explanation of Graphs.



Graph 12. Sherman functions for elastic electron scattering from xenon at various energies: thick solid line, present work; experimental data: \circ , Dümmler et al. [67]; \diamond , Dorn et al. [37]; \square , Müller and Kessler [36]. See page 17 for Explanation of Graphs.

Table 1

Differential cross sections for elastic electron scattering from helium. See page 17 for Explanation of Tables

Angle	1 eV	2.5 eV	5 eV	7.5 eV	10 eV	15 eV	20 eV
0	8.999E-01	6.810E-01	8.309E-01	1.227E+00	1.659E+00	2.431E+00	3.017E+00
1	9.018E-01	6.835E-01	8.303E-01	1.220E+00	1.650E+00	2.413E+00	2.980E+00
2	9.037E-01	6.859E-01	8.296E-01	1.213E+00	1.641E+00	2.396E+00	2.944E+00
3	9.069E-01	6.898E-01	8.286E-01	1.204E+00	1.627E+00	2.369E+00	2.891E+00
4	9.112E-01	6.949E-01	8.274E-01	1.192E+00	1.608E+00	2.335E+00	2.830E+00
5	9.165E-01	7.010E-01	8.261E-01	1.180E+00	1.587E+00	2.294E+00	2.767E+00
6	9.227E-01	7.078E-01	8.250E-01	1.168E+00	1.564E+00	2.251E+00	2.706E+00
7	9.297E-01	7.150E-01	8.241E-01	1.156E+00	1.540E+00	2.207E+00	2.649E+00
8	9.374E-01	7.226E-01	8.234E-01	1.145E+00	1.517E+00	2.163E+00	2.594E+00
9	9.455E-01	7.304E-01	8.230E-01	1.135E+00	1.495E+00	2.121E+00	2.541E+00
10	9.540E-01	7.382E-01	8.228E-01	1.124E+00	1.473E+00	2.080E+00	2.487E+00
11	9.628E-01	7.462E-01	8.228E-01	1.114E+00	1.453E+00	2.042E+00	2.433E+00
12	9.717E-01	7.542E-01	8.231E-01	1.104E+00	1.433E+00	2.004E+00	2.380E+00
13	9.808E-01	7.624E-01	8.236E-01	1.095E+00	1.415E+00	1.968E+00	2.327E+00
14	9.899E-01	7.707E-01	8.243E-01	1.086E+00	1.396E+00	1.933E+00	2.277E+00
15	9.991E-01	7.792E-01	8.252E-01	1.077E+00	1.378E+00	1.898E+00	2.228E+00
16	1.008E+00	7.878E-01	8.264E-01	1.069E+00	1.360E+00	1.863E+00	2.180E+00
17	1.018E+00	7.965E-01	8.279E-01	1.061E+00	1.342E+00	1.828E+00	2.132E+00
18	1.027E+00	8.054E-01	8.296E-01	1.053E+00	1.324E+00	1.794E+00	2.085E+00
19	1.036E+00	8.144E-01	8.315E-01	1.045E+00	1.307E+00	1.759E+00	2.039E+00
20	1.045E+00	8.235E-01	8.337E-01	1.038E+00	1.291E+00	1.726E+00	1.993E+00
21	1.055E+00	8.328E-01	8.362E-01	1.031E+00	1.274E+00	1.694E+00	1.949E+00
22	1.064E+00	8.421E-01	8.388E-01	1.025E+00	1.259E+00	1.662E+00	1.906E+00
23	1.074E+00	8.516E-01	8.417E-01	1.019E+00	1.244E+00	1.632E+00	1.864E+00
24	1.083E+00	8.612E-01	8.448E-01	1.013E+00	1.229E+00	1.602E+00	1.823E+00
25	1.093E+00	8.709E-01	8.481E-01	1.008E+00	1.215E+00	1.573E+00	1.782E+00
26	1.103E+00	8.808E-01	8.516E-01	1.003E+00	1.201E+00	1.545E+00	1.742E+00
27	1.112E+00	8.908E-01	8.554E-01	9.978E-01	1.188E+00	1.517E+00	1.704E+00
28	1.122E+00	9.009E-01	8.594E-01	9.934E-01	1.175E+00	1.490E+00	1.666E+00
29	1.132E+00	9.111E-01	8.637E-01	9.894E-01	1.163E+00	1.463E+00	1.629E+00
30	1.142E+00	9.214E-01	8.683E-01	9.857E-01	1.151E+00	1.436E+00	1.593E+00
31	1.151E+00	9.318E-01	8.731E-01	9.824E-01	1.139E+00	1.411E+00	1.558E+00
32	1.161E+00	9.424E-01	8.781E-01	9.793E-01	1.128E+00	1.386E+00	1.524E+00
33	1.171E+00	9.530E-01	8.833E-01	9.767E-01	1.117E+00	1.362E+00	1.490E+00
34	1.181E+00	9.638E-01	8.888E-01	9.743E-01	1.107E+00	1.338E+00	1.458E+00
35	1.191E+00	9.747E-01	8.944E-01	9.723E-01	1.097E+00	1.316E+00	1.426E+00
36	1.201E+00	9.857E-01	9.003E-01	9.707E-01	1.088E+00	1.294E+00	1.395E+00
37	1.211E+00	9.968E-01	9.064E-01	9.693E-01	1.079E+00	1.272E+00	1.365E+00
38	1.221E+00	1.008E+00	9.127E-01	9.683E-01	1.071E+00	1.252E+00	1.336E+00
39	1.231E+00	1.019E+00	9.192E-01	9.677E-01	1.063E+00	1.231E+00	1.308E+00
40	1.242E+00	1.031E+00	9.260E-01	9.673E-01	1.055E+00	1.212E+00	1.280E+00
41	1.252E+00	1.042E+00	9.330E-01	9.673E-01	1.048E+00	1.193E+00	1.253E+00
42	1.262E+00	1.054E+00	9.403E-01	9.676E-01	1.041E+00	1.174E+00	1.227E+00
43	1.272E+00	1.066E+00	9.478E-01	9.683E-01	1.035E+00	1.157E+00	1.202E+00
44	1.282E+00	1.077E+00	9.555E-01	9.692E-01	1.029E+00	1.139E+00	1.178E+00
45	1.293E+00	1.089E+00	9.633E-01	9.705E-01	1.023E+00	1.123E+00	1.154E+00
46	1.303E+00	1.101E+00	9.714E-01	9.721E-01	1.018E+00	1.107E+00	1.132E+00
47	1.313E+00	1.113E+00	9.796E-01	9.740E-01	1.014E+00	1.092E+00	1.109E+00
48	1.324E+00	1.125E+00	9.881E-01	9.763E-01	1.009E+00	1.077E+00	1.088E+00
49	1.334E+00	1.138E+00	9.967E-01	9.788E-01	1.006E+00	1.063E+00	1.067E+00
50	1.344E+00	1.150E+00	1.006E+00	9.816E-01	1.002E+00	1.049E+00	1.047E+00
51	1.355E+00	1.162E+00	1.015E+00	9.848E-01	9.991E-01	1.036E+00	1.028E+00
52	1.365E+00	1.175E+00	1.024E+00	9.882E-01	9.965E-01	1.024E+00	1.010E+00
53	1.375E+00	1.187E+00	1.033E+00	9.919E-01	9.943E-01	1.012E+00	9.918E-01
54	1.386E+00	1.200E+00	1.043E+00	9.959E-01	9.924E-01	1.001E+00	9.745E-01
55	1.396E+00	1.213E+00	1.053E+00	9.999E-01	9.910E-01	9.897E-01	9.579E-01
56	1.406E+00	1.225E+00	1.063E+00	1.005E+00	9.899E-01	9.794E-01	9.420E-01
57	1.417E+00	1.238E+00	1.073E+00	1.010E+00	9.892E-01	9.696E-01	9.268E-01
58	1.427E+00	1.251E+00	1.083E+00	1.015E+00	9.888E-01	9.603E-01	9.121E-01
59	1.438E+00	1.264E+00	1.094E+00	1.020E+00	9.887E-01	9.515E-01	8.980E-01
60	1.448E+00	1.277E+00	1.104E+00	1.026E+00	9.890E-01	9.432E-01	8.845E-01
61	1.459E+00	1.290E+00	1.115E+00	1.032E+00	9.897E-01	9.354E-01	8.716E-01
62	1.469E+00	1.303E+00	1.126E+00	1.038E+00	9.907E-01	9.281E-01	8.593E-01

Table 1 (continued)

Angle	1 eV	2.5 eV	5 eV	7.5 eV	10 eV	15 eV	20 eV
63	1.479E+00	1.316E+00	1.137E+00	1.044E+00	9.920E-01	9.212E-01	8.475E-01
64	1.490E+00	1.329E+00	1.149E+00	1.051E+00	9.937E-01	9.148E-01	8.362E-01
65	1.500E+00	1.343E+00	1.160E+00	1.058E+00	9.958E-01	9.088E-01	8.255E-01
66	1.510E+00	1.356E+00	1.172E+00	1.065E+00	9.981E-01	9.033E-01	8.153E-01
67	1.521E+00	1.369E+00	1.183E+00	1.072E+00	1.001E+00	8.982E-01	8.056E-01
68	1.531E+00	1.383E+00	1.195E+00	1.080E+00	1.004E+00	8.935E-01	7.964E-01
69	1.542E+00	1.396E+00	1.207E+00	1.088E+00	1.007E+00	8.892E-01	7.876E-01
70	1.552E+00	1.409E+00	1.219E+00	1.096E+00	1.010E+00	8.853E-01	7.793E-01
71	1.562E+00	1.423E+00	1.231E+00	1.104E+00	1.014E+00	8.818E-01	7.715E-01
72	1.572E+00	1.436E+00	1.244E+00	1.113E+00	1.018E+00	8.787E-01	7.641E-01
73	1.583E+00	1.450E+00	1.256E+00	1.121E+00	1.023E+00	8.759E-01	7.571E-01
74	1.593E+00	1.463E+00	1.269E+00	1.130E+00	1.027E+00	8.736E-01	7.506E-01
75	1.603E+00	1.477E+00	1.281E+00	1.139E+00	1.032E+00	8.715E-01	7.444E-01
76	1.613E+00	1.490E+00	1.294E+00	1.148E+00	1.037E+00	8.699E-01	7.387E-01
77	1.624E+00	1.504E+00	1.307E+00	1.158E+00	1.043E+00	8.686E-01	7.333E-01
78	1.634E+00	1.518E+00	1.320E+00	1.167E+00	1.048E+00	8.676E-01	7.283E-01
79	1.644E+00	1.531E+00	1.333E+00	1.177E+00	1.054E+00	8.669E-01	7.236E-01
80	1.654E+00	1.545E+00	1.346E+00	1.187E+00	1.060E+00	8.665E-01	7.193E-01
81	1.664E+00	1.558E+00	1.359E+00	1.197E+00	1.066E+00	8.664E-01	7.153E-01
82	1.674E+00	1.572E+00	1.372E+00	1.207E+00	1.073E+00	8.665E-01	7.117E-01
83	1.684E+00	1.585E+00	1.386E+00	1.217E+00	1.079E+00	8.669E-01	7.084E-01
84	1.694E+00	1.599E+00	1.399E+00	1.227E+00	1.086E+00	8.676E-01	7.053E-01
85	1.704E+00	1.612E+00	1.412E+00	1.238E+00	1.093E+00	8.686E-01	7.026E-01
86	1.714E+00	1.626E+00	1.426E+00	1.249E+00	1.100E+00	8.698E-01	7.001E-01
87	1.724E+00	1.639E+00	1.439E+00	1.259E+00	1.108E+00	8.713E-01	6.979E-01
88	1.733E+00	1.653E+00	1.453E+00	1.270E+00	1.115E+00	8.731E-01	6.960E-01
89	1.743E+00	1.666E+00	1.467E+00	1.281E+00	1.123E+00	8.750E-01	6.943E-01
90	1.753E+00	1.680E+00	1.480E+00	1.292E+00	1.131E+00	8.772E-01	6.929E-01
91	1.762E+00	1.693E+00	1.494E+00	1.303E+00	1.139E+00	8.796E-01	6.917E-01
92	1.772E+00	1.706E+00	1.507E+00	1.315E+00	1.147E+00	8.822E-01	6.907E-01
93	1.782E+00	1.720E+00	1.521E+00	1.326E+00	1.155E+00	8.849E-01	6.899E-01
94	1.791E+00	1.733E+00	1.535E+00	1.337E+00	1.163E+00	8.878E-01	6.894E-01
95	1.801E+00	1.746E+00	1.548E+00	1.349E+00	1.172E+00	8.909E-01	6.890E-01
96	1.810E+00	1.759E+00	1.562E+00	1.360E+00	1.180E+00	8.941E-01	6.889E-01
97	1.819E+00	1.772E+00	1.576E+00	1.372E+00	1.189E+00	8.975E-01	6.889E-01
98	1.828E+00	1.785E+00	1.589E+00	1.383E+00	1.198E+00	9.011E-01	6.891E-01
99	1.838E+00	1.798E+00	1.603E+00	1.395E+00	1.207E+00	9.048E-01	6.894E-01
100	1.847E+00	1.811E+00	1.617E+00	1.407E+00	1.215E+00	9.088E-01	6.899E-01
101	1.856E+00	1.824E+00	1.630E+00	1.418E+00	1.225E+00	9.128E-01	6.906E-01
102	1.865E+00	1.837E+00	1.644E+00	1.430E+00	1.234E+00	9.170E-01	6.914E-01
103	1.874E+00	1.850E+00	1.658E+00	1.442E+00	1.243E+00	9.212E-01	6.923E-01
104	1.883E+00	1.862E+00	1.671E+00	1.454E+00	1.252E+00	9.255E-01	6.934E-01
105	1.891E+00	1.875E+00	1.685E+00	1.465E+00	1.261E+00	9.299E-01	6.946E-01
106	1.900E+00	1.887E+00	1.698E+00	1.477E+00	1.270E+00	9.344E-01	6.959E-01
107	1.909E+00	1.900E+00	1.711E+00	1.489E+00	1.279E+00	9.390E-01	6.973E-01
108	1.917E+00	1.912E+00	1.724E+00	1.500E+00	1.289E+00	9.436E-01	6.988E-01
109	1.926E+00	1.924E+00	1.738E+00	1.512E+00	1.298E+00	9.484E-01	7.004E-01
110	1.934E+00	1.936E+00	1.751E+00	1.524E+00	1.307E+00	9.532E-01	7.022E-01
111	1.943E+00	1.948E+00	1.764E+00	1.535E+00	1.317E+00	9.582E-01	7.040E-01
112	1.951E+00	1.960E+00	1.777E+00	1.547E+00	1.326E+00	9.632E-01	7.059E-01
113	1.959E+00	1.972E+00	1.790E+00	1.559E+00	1.336E+00	9.683E-01	7.078E-01
114	1.967E+00	1.984E+00	1.803E+00	1.570E+00	1.345E+00	9.734E-01	7.098E-01
115	1.975E+00	1.995E+00	1.816E+00	1.582E+00	1.354E+00	9.785E-01	7.118E-01
116	1.983E+00	2.007E+00	1.829E+00	1.593E+00	1.364E+00	9.836E-01	7.140E-01
117	1.991E+00	2.018E+00	1.841E+00	1.604E+00	1.373E+00	9.887E-01	7.162E-01
118	1.998E+00	2.030E+00	1.854E+00	1.616E+00	1.382E+00	9.938E-01	7.184E-01
119	2.006E+00	2.041E+00	1.866E+00	1.627E+00	1.391E+00	9.989E-01	7.207E-01
120	2.014E+00	2.052E+00	1.878E+00	1.638E+00	1.400E+00	1.004E+00	7.231E-01
121	2.021E+00	2.063E+00	1.890E+00	1.649E+00	1.409E+00	1.009E+00	7.254E-01
122	2.028E+00	2.073E+00	1.902E+00	1.660E+00	1.418E+00	1.015E+00	7.277E-01
123	2.036E+00	2.084E+00	1.914E+00	1.671E+00	1.428E+00	1.020E+00	7.302E-01
124	2.043E+00	2.095E+00	1.926E+00	1.682E+00	1.437E+00	1.025E+00	7.326E-01
125	2.050E+00	2.105E+00	1.938E+00	1.692E+00	1.445E+00	1.030E+00	7.351E-01

(continued on next page)

Table 1 (continued)

Angle	1 eV	2.5 eV	5 eV	7.5 eV	10 eV	15 eV	20 eV
126	2.057E+00	2.115E+00	1.949E+00	1.703E+00	1.454E+00	1.035E+00	7.376E−01
127	2.063E+00	2.125E+00	1.961E+00	1.713E+00	1.463E+00	1.041E+00	7.400E−01
128	2.070E+00	2.135E+00	1.972E+00	1.724E+00	1.472E+00	1.046E+00	7.425E−01
129	2.077E+00	2.145E+00	1.983E+00	1.734E+00	1.480E+00	1.051E+00	7.450E−01
130	2.083E+00	2.155E+00	1.994E+00	1.744E+00	1.488E+00	1.056E+00	7.475E−01
131	2.090E+00	2.164E+00	2.005E+00	1.754E+00	1.497E+00	1.061E+00	7.500E−01
132	2.096E+00	2.174E+00	2.015E+00	1.764E+00	1.505E+00	1.065E+00	7.525E−01
133	2.102E+00	2.183E+00	2.026E+00	1.773E+00	1.513E+00	1.070E+00	7.550E−01
134	2.108E+00	2.192E+00	2.036E+00	1.783E+00	1.521E+00	1.075E+00	7.574E−01
135	2.114E+00	2.201E+00	2.046E+00	1.792E+00	1.529E+00	1.080E+00	7.598E−01
136	2.120E+00	2.210E+00	2.056E+00	1.801E+00	1.537E+00	1.085E+00	7.622E−01
137	2.126E+00	2.218E+00	2.066E+00	1.811E+00	1.545E+00	1.090E+00	7.647E−01
138	2.132E+00	2.227E+00	2.076E+00	1.820E+00	1.553E+00	1.094E+00	7.671E−01
139	2.137E+00	2.235E+00	2.085E+00	1.828E+00	1.560E+00	1.099E+00	7.695E−01
140	2.142E+00	2.243E+00	2.094E+00	1.837E+00	1.567E+00	1.103E+00	7.718E−01
141	2.148E+00	2.251E+00	2.103E+00	1.845E+00	1.574E+00	1.108E+00	7.741E−01
142	2.153E+00	2.259E+00	2.112E+00	1.854E+00	1.581E+00	1.112E+00	7.764E−01
143	2.158E+00	2.266E+00	2.121E+00	1.862E+00	1.588E+00	1.116E+00	7.786E−01
144	2.163E+00	2.274E+00	2.129E+00	1.870E+00	1.595E+00	1.120E+00	7.808E−01
145	2.168E+00	2.281E+00	2.137E+00	1.877E+00	1.601E+00	1.125E+00	7.829E−01
146	2.172E+00	2.288E+00	2.146E+00	1.885E+00	1.608E+00	1.129E+00	7.851E−01
147	2.177E+00	2.295E+00	2.154E+00	1.892E+00	1.614E+00	1.133E+00	7.872E−01
148	2.181E+00	2.301E+00	2.161E+00	1.900E+00	1.621E+00	1.137E+00	7.892E−01
149	2.185E+00	2.308E+00	2.169E+00	1.907E+00	1.627E+00	1.140E+00	7.912E−01
150	2.190E+00	2.314E+00	2.176E+00	1.913E+00	1.632E+00	1.144E+00	7.931E−01
151	2.194E+00	2.320E+00	2.183E+00	1.920E+00	1.638E+00	1.147E+00	7.950E−01
152	2.197E+00	2.326E+00	2.190E+00	1.926E+00	1.643E+00	1.151E+00	7.969E−01
153	2.201E+00	2.332E+00	2.196E+00	1.933E+00	1.649E+00	1.154E+00	7.987E−01
154	2.205E+00	2.337E+00	2.203E+00	1.939E+00	1.654E+00	1.157E+00	8.005E−01
155	2.208E+00	2.342E+00	2.209E+00	1.944E+00	1.659E+00	1.160E+00	8.021E−01
156	2.212E+00	2.348E+00	2.215E+00	1.950E+00	1.663E+00	1.163E+00	8.037E−01
157	2.215E+00	2.353E+00	2.220E+00	1.955E+00	1.668E+00	1.166E+00	8.053E−01
158	2.218E+00	2.357E+00	2.226E+00	1.960E+00	1.673E+00	1.169E+00	8.068E−01
159	2.221E+00	2.362E+00	2.231E+00	1.965E+00	1.677E+00	1.172E+00	8.082E−01
160	2.224E+00	2.366E+00	2.236E+00	1.970E+00	1.681E+00	1.175E+00	8.097E−01
161	2.227E+00	2.370E+00	2.241E+00	1.975E+00	1.685E+00	1.177E+00	8.110E−01
162	2.229E+00	2.374E+00	2.246E+00	1.979E+00	1.689E+00	1.179E+00	8.123E−01
163	2.232E+00	2.378E+00	2.250E+00	1.983E+00	1.692E+00	1.182E+00	8.135E−01
164	2.234E+00	2.381E+00	2.254E+00	1.987E+00	1.695E+00	1.183E+00	8.146E−01
165	2.236E+00	2.384E+00	2.257E+00	1.990E+00	1.698E+00	1.185E+00	8.156E−01
166	2.238E+00	2.388E+00	2.261E+00	1.994E+00	1.701E+00	1.187E+00	8.166E−01
167	2.240E+00	2.390E+00	2.264E+00	1.997E+00	1.704E+00	1.189E+00	8.176E−01
168	2.242E+00	2.393E+00	2.267E+00	2.000E+00	1.706E+00	1.190E+00	8.186E−01
169	2.243E+00	2.396E+00	2.270E+00	2.003E+00	1.709E+00	1.192E+00	8.194E−01
170	2.245E+00	2.398E+00	2.273E+00	2.005E+00	1.711E+00	1.193E+00	8.201E−01
171	2.246E+00	2.400E+00	2.276E+00	2.007E+00	1.713E+00	1.195E+00	8.207E−01
172	2.247E+00	2.402E+00	2.278E+00	2.009E+00	1.715E+00	1.196E+00	8.212E−01
173	2.248E+00	2.403E+00	2.280E+00	2.011E+00	1.717E+00	1.197E+00	8.218E−01
174	2.249E+00	2.405E+00	2.281E+00	2.013E+00	1.718E+00	1.198E+00	8.223E−01
175	2.250E+00	2.406E+00	2.282E+00	2.014E+00	1.719E+00	1.198E+00	8.228E−01
176	2.251E+00	2.407E+00	2.283E+00	2.015E+00	1.719E+00	1.199E+00	8.231E−01
177	2.251E+00	2.407E+00	2.284E+00	2.016E+00	1.720E+00	1.199E+00	8.233E−01
178	2.251E+00	2.408E+00	2.285E+00	2.016E+00	1.720E+00	1.199E+00	8.233E−01
179	2.252E+00	2.408E+00	2.285E+00	2.017E+00	1.720E+00	1.199E+00	8.233E−01
180	2.252E+00	2.408E+00	2.285E+00	2.017E+00	1.720E+00	1.199E+00	8.233E−01
Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
0	3.594E+00	3.827E+00	3.928E+00	3.914E+00	3.863E+00	3.804E+00	3.733E+00
1	3.540E+00	3.750E+00	3.813E+00	3.786E+00	3.723E+00	3.646E+00	3.560E+00
2	3.487E+00	3.674E+00	3.702E+00	3.661E+00	3.587E+00	3.494E+00	3.394E+00
3	3.410E+00	3.570E+00	3.572E+00	3.517E+00	3.431E+00	3.330E+00	3.225E+00
4	3.321E+00	3.457E+00	3.451E+00	3.384E+00	3.288E+00	3.183E+00	3.073E+00
5	3.230E+00	3.349E+00	3.337E+00	3.260E+00	3.156E+00	3.042E+00	2.925E+00
6	3.143E+00	3.250E+00	3.224E+00	3.137E+00	3.025E+00	2.902E+00	2.780E+00

Table 1 (continued)

Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
7	3.063E+00	3.155E+00	3.112E+00	3.015E+00	2.895E+00	2.769E+00	2.644E+00
8	2.986E+00	3.062E+00	3.005E+00	2.899E+00	2.773E+00	2.643E+00	2.514E+00
9	2.911E+00	2.968E+00	2.902E+00	2.788E+00	2.657E+00	2.521E+00	2.388E+00
10	2.835E+00	2.875E+00	2.800E+00	2.679E+00	2.543E+00	2.403E+00	2.269E+00
11	2.760E+00	2.786E+00	2.701E+00	2.573E+00	2.432E+00	2.291E+00	2.156E+00
12	2.685E+00	2.700E+00	2.606E+00	2.472E+00	2.327E+00	2.184E+00	2.046E+00
13	2.613E+00	2.617E+00	2.514E+00	2.375E+00	2.226E+00	2.080E+00	1.942E+00
14	2.543E+00	2.535E+00	2.424E+00	2.280E+00	2.129E+00	1.981E+00	1.843E+00
15	2.476E+00	2.455E+00	2.337E+00	2.188E+00	2.034E+00	1.887E+00	1.749E+00
16	2.410E+00	2.377E+00	2.252E+00	2.100E+00	1.945E+00	1.796E+00	1.658E+00
17	2.344E+00	2.300E+00	2.171E+00	2.015E+00	1.859E+00	1.709E+00	1.573E+00
18	2.280E+00	2.227E+00	2.092E+00	1.933E+00	1.775E+00	1.627E+00	1.491E+00
19	2.217E+00	2.156E+00	2.015E+00	1.854E+00	1.695E+00	1.548E+00	1.413E+00
20	2.156E+00	2.087E+00	1.941E+00	1.778E+00	1.619E+00	1.472E+00	1.340E+00
21	2.096E+00	2.019E+00	1.869E+00	1.705E+00	1.546E+00	1.400E+00	1.270E+00
22	2.039E+00	1.953E+00	1.800E+00	1.634E+00	1.476E+00	1.332E+00	1.203E+00
23	1.983E+00	1.889E+00	1.733E+00	1.566E+00	1.409E+00	1.266E+00	1.140E+00
24	1.927E+00	1.827E+00	1.668E+00	1.501E+00	1.345E+00	1.204E+00	1.080E+00
25	1.873E+00	1.767E+00	1.606E+00	1.439E+00	1.283E+00	1.145E+00	1.023E+00
26	1.821E+00	1.709E+00	1.545E+00	1.378E+00	1.225E+00	1.088E+00	9.691E−01
27	1.769E+00	1.653E+00	1.487E+00	1.321E+00	1.168E+00	1.035E+00	9.184E−01
28	1.720E+00	1.598E+00	1.431E+00	1.265E+00	1.115E+00	9.834E−01	8.701E−01
29	1.672E+00	1.545E+00	1.377E+00	1.212E+00	1.064E+00	9.351E−01	8.245E−01
30	1.625E+00	1.494E+00	1.325E+00	1.161E+00	1.015E+00	8.892E−01	7.816E−01
31	1.579E+00	1.444E+00	1.275E+00	1.113E+00	9.689E−01	8.454E−01	7.409E−01
32	1.535E+00	1.396E+00	1.227E+00	1.066E+00	9.247E−01	8.041E−01	7.025E−01
33	1.491E+00	1.350E+00	1.181E+00	1.022E+00	8.827E−01	7.649E−01	6.663E−01
34	1.449E+00	1.305E+00	1.136E+00	9.788E−01	8.426E−01	7.278E−01	6.321E−01
35	1.408E+00	1.261E+00	1.093E+00	9.379E−01	8.044E−01	6.925E−01	5.998E−01
36	1.369E+00	1.220E+00	1.052E+00	8.989E−01	7.682E−01	6.592E−01	5.694E−01
37	1.331E+00	1.179E+00	1.013E+00	8.617E−01	7.338E−01	6.278E−01	5.408E−01
38	1.294E+00	1.140E+00	9.746E−01	8.261E−01	7.010E−01	5.979E−01	5.138E−01
39	1.258E+00	1.103E+00	9.382E−01	7.921E−01	6.698E−01	5.697E−01	4.883E−01
40	1.223E+00	1.067E+00	9.034E−01	7.597E−01	6.403E−01	5.430E−01	4.644E−01
41	1.189E+00	1.032E+00	8.700E−01	7.289E−01	6.123E−01	5.178E−01	4.418E−01
42	1.156E+00	9.981E−01	8.379E−01	6.994E−01	5.856E−01	4.939E−01	4.206E−01
43	1.124E+00	9.658E−01	8.072E−01	6.712E−01	5.603E−01	4.714E−01	4.006E−01
44	1.094E+00	9.346E−01	7.779E−01	6.445E−01	5.363E−01	4.502E−01	3.818E−01
45	1.064E+00	9.046E−01	7.498E−01	6.190E−01	5.136E−01	4.301E−01	3.641E−01
46	1.036E+00	8.757E−01	7.228E−01	5.947E−01	4.921E−01	4.111E−01	3.474E−01
47	1.008E+00	8.480E−01	6.970E−01	5.715E−01	4.716E−01	3.931E−01	3.317E−01
48	9.813E−01	8.214E−01	6.724E−01	5.495E−01	4.522E−01	3.762E−01	3.169E−01
49	9.556E−01	7.959E−01	6.489E−01	5.286E−01	4.339E−01	3.602E−01	3.030E−01
50	9.308E−01	7.713E−01	6.264E−01	5.086E−01	4.165E−01	3.451E−01	2.899E−01
51	9.070E−01	7.477E−01	6.048E−01	4.896E−01	3.999E−01	3.308E−01	2.775E−01
52	8.839E−01	7.250E−01	5.843E−01	4.716E−01	3.843E−01	3.173E−01	2.659E−01
53	8.617E−01	7.032E−01	5.646E−01	4.544E−01	3.695E−01	3.046E−01	2.549E−01
54	8.403E−01	6.824E−01	5.458E−01	4.380E−01	3.554E−01	2.926E−01	2.446E−01
55	8.196E−01	6.624E−01	5.279E−01	4.225E−01	3.421E−01	2.812E−01	2.348E−01
56	7.998E−01	6.432E−01	5.108E−01	4.077E−01	3.295E−01	2.704E−01	2.256E−01
57	7.808E−01	6.248E−01	4.945E−01	3.936E−01	3.175E−01	2.603E−01	2.170E−01
58	7.625E−01	6.072E−01	4.788E−01	3.802E−01	3.062E−01	2.507E−01	2.088E−01
59	7.449E−01	5.903E−01	4.639E−01	3.675E−01	2.954E−01	2.416E−01	2.010E−01
60	7.280E−01	5.741E−01	4.497E−01	3.554E−01	2.852E−01	2.329E−01	1.937E−01
61	7.117E−01	5.587E−01	4.362E−01	3.439E−01	2.755E−01	2.248E−01	1.868E−01
62	6.961E−01	5.438E−01	4.232E−01	3.329E−01	2.663E−01	2.171E−01	1.803E−01
63	6.811E−01	5.296E−01	4.109E−01	3.225E−01	2.576E−01	2.098E−01	1.741E−01
64	6.668E−01	5.160E−01	3.991E−01	3.126E−01	2.493E−01	2.028E−01	1.683E−01
65	6.530E−01	5.030E−01	3.878E−01	3.032E−01	2.415E−01	1.963E−01	1.628E−01
66	6.398E−01	4.905E−01	3.771E−01	2.942E−01	2.340E−01	1.901E−01	1.575E−01
67	6.272E−01	4.786E−01	3.668E−01	2.856E−01	2.269E−01	1.841E−01	1.525E−01
68	6.151E−01	4.672E−01	3.571E−01	2.775E−01	2.202E−01	1.785E−01	1.478E−01
69	6.035E−01	4.563E−01	3.477E−01	2.697E−01	2.138E−01	1.732E−01	1.434E−01

(continued on next page)

Table 1 (continued)

Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
70	5.924E-01	4.459E-01	3.388E-01	2.623E-01	2.077E-01	1.681E-01	1.391E-01
71	5.819E-01	4.359E-01	3.303E-01	2.553E-01	2.019E-01	1.633E-01	1.351E-01
72	5.717E-01	4.264E-01	3.222E-01	2.486E-01	1.963E-01	1.588E-01	1.312E-01
73	5.621E-01	4.173E-01	3.144E-01	2.422E-01	1.911E-01	1.544E-01	1.276E-01
74	5.528E-01	4.086E-01	3.070E-01	2.361E-01	1.861E-01	1.503E-01	1.241E-01
75	5.440E-01	4.003E-01	3.000E-01	2.302E-01	1.813E-01	1.463E-01	1.208E-01
76	5.356E-01	3.923E-01	2.932E-01	2.247E-01	1.767E-01	1.425E-01	1.176E-01
77	5.276E-01	3.847E-01	2.868E-01	2.194E-01	1.724E-01	1.390E-01	1.146E-01
78	5.200E-01	3.775E-01	2.806E-01	2.143E-01	1.682E-01	1.355E-01	1.118E-01
79	5.127E-01	3.705E-01	2.747E-01	2.095E-01	1.643E-01	1.323E-01	1.090E-01
80	5.057E-01	3.639E-01	2.691E-01	2.049E-01	1.605E-01	1.291E-01	1.064E-01
81	4.991E-01	3.575E-01	2.637E-01	2.004E-01	1.569E-01	1.261E-01	1.039E-01
82	4.929E-01	3.515E-01	2.585E-01	1.962E-01	1.534E-01	1.233E-01	1.015E-01
83	4.869E-01	3.457E-01	2.536E-01	1.922E-01	1.501E-01	1.206E-01	9.921E-02
84	4.812E-01	3.402E-01	2.489E-01	1.883E-01	1.469E-01	1.179E-01	9.702E-02
85	4.758E-01	3.349E-01	2.444E-01	1.846E-01	1.439E-01	1.154E-01	9.492E-02
86	4.707E-01	3.298E-01	2.400E-01	1.810E-01	1.410E-01	1.130E-01	9.291E-02
87	4.658E-01	3.250E-01	2.359E-01	1.776E-01	1.382E-01	1.107E-01	9.098E-02
88	4.612E-01	3.204E-01	2.319E-01	1.744E-01	1.355E-01	1.085E-01	8.913E-02
89	4.569E-01	3.159E-01	2.281E-01	1.712E-01	1.330E-01	1.064E-01	8.735E-02
90	4.528E-01	3.117E-01	2.245E-01	1.682E-01	1.305E-01	1.044E-01	8.564E-02
91	4.489E-01	3.077E-01	2.210E-01	1.653E-01	1.281E-01	1.024E-01	8.400E-02
92	4.452E-01	3.038E-01	2.176E-01	1.626E-01	1.259E-01	1.005E-01	8.243E-02
93	4.417E-01	3.002E-01	2.144E-01	1.599E-01	1.237E-01	9.873E-02	8.091E-02
94	4.384E-01	2.966E-01	2.113E-01	1.573E-01	1.216E-01	9.699E-02	7.945E-02
95	4.353E-01	2.933E-01	2.084E-01	1.549E-01	1.196E-01	9.532E-02	7.805E-02
96	4.324E-01	2.900E-01	2.055E-01	1.525E-01	1.176E-01	9.371E-02	7.670E-02
97	4.296E-01	2.869E-01	2.028E-01	1.502E-01	1.157E-01	9.216E-02	7.539E-02
98	4.271E-01	2.840E-01	2.002E-01	1.480E-01	1.139E-01	9.066E-02	7.414E-02
99	4.246E-01	2.812E-01	1.976E-01	1.459E-01	1.122E-01	8.922E-02	7.293E-02
100	4.223E-01	2.785E-01	1.952E-01	1.439E-01	1.105E-01	8.783E-02	7.176E-02
101	4.202E-01	2.759E-01	1.929E-01	1.419E-01	1.089E-01	8.649E-02	7.064E-02
102	4.182E-01	2.734E-01	1.906E-01	1.400E-01	1.073E-01	8.520E-02	6.955E-02
103	4.163E-01	2.710E-01	1.884E-01	1.382E-01	1.058E-01	8.395E-02	6.850E-02
104	4.146E-01	2.688E-01	1.863E-01	1.364E-01	1.044E-01	8.274E-02	6.749E-02
105	4.129E-01	2.666E-01	1.843E-01	1.347E-01	1.030E-01	8.157E-02	6.651E-02
106	4.114E-01	2.645E-01	1.824E-01	1.331E-01	1.016E-01	8.045E-02	6.557E-02
107	4.100E-01	2.625E-01	1.805E-01	1.315E-01	1.003E-01	7.936E-02	6.466E-02
108	4.086E-01	2.606E-01	1.787E-01	1.299E-01	9.901E-02	7.831E-02	6.377E-02
109	4.074E-01	2.588E-01	1.770E-01	1.285E-01	9.778E-02	7.729E-02	6.292E-02
110	4.063E-01	2.570E-01	1.753E-01	1.270E-01	9.660E-02	7.631E-02	6.210E-02
111	4.053E-01	2.554E-01	1.737E-01	1.256E-01	9.544E-02	7.535E-02	6.130E-02
112	4.043E-01	2.537E-01	1.721E-01	1.243E-01	9.433E-02	7.443E-02	6.053E-02
113	4.035E-01	2.522E-01	1.706E-01	1.230E-01	9.325E-02	7.354E-02	5.978E-02
114	4.026E-01	2.507E-01	1.691E-01	1.217E-01	9.221E-02	7.268E-02	5.906E-02
115	4.019E-01	2.493E-01	1.677E-01	1.205E-01	9.120E-02	7.184E-02	5.836E-02
116	4.012E-01	2.479E-01	1.664E-01	1.193E-01	9.021E-02	7.103E-02	5.768E-02
117	4.006E-01	2.466E-01	1.650E-01	1.182E-01	8.927E-02	7.025E-02	5.703E-02
118	4.001E-01	2.454E-01	1.638E-01	1.171E-01	8.835E-02	6.949E-02	5.639E-02
119	3.996E-01	2.441E-01	1.625E-01	1.160E-01	8.746E-02	6.875E-02	5.578E-02
120	3.992E-01	2.430E-01	1.613E-01	1.150E-01	8.659E-02	6.804E-02	5.518E-02
121	3.988E-01	2.419E-01	1.602E-01	1.140E-01	8.576E-02	6.735E-02	5.460E-02
122	3.984E-01	2.408E-01	1.591E-01	1.130E-01	8.495E-02	6.668E-02	5.405E-02
123	3.981E-01	2.398E-01	1.580E-01	1.120E-01	8.416E-02	6.603E-02	5.351E-02
124	3.979E-01	2.388E-01	1.569E-01	1.111E-01	8.339E-02	6.541E-02	5.298E-02
125	3.977E-01	2.378E-01	1.559E-01	1.102E-01	8.266E-02	6.480E-02	5.247E-02
126	3.976E-01	2.369E-01	1.549E-01	1.094E-01	8.194E-02	6.421E-02	5.198E-02
127	3.974E-01	2.360E-01	1.540E-01	1.085E-01	8.125E-02	6.364E-02	5.151E-02
128	3.973E-01	2.352E-01	1.531E-01	1.077E-01	8.057E-02	6.309E-02	5.105E-02
129	3.972E-01	2.344E-01	1.522E-01	1.069E-01	7.992E-02	6.255E-02	5.060E-02
130	3.971E-01	2.336E-01	1.513E-01	1.062E-01	7.929E-02	6.203E-02	5.017E-02
131	3.971E-01	2.329E-01	1.505E-01	1.054E-01	7.868E-02	6.153E-02	4.975E-02
132	3.972E-01	2.321E-01	1.497E-01	1.047E-01	7.808E-02	6.104E-02	4.935E-02
133	3.972E-01	2.315E-01	1.489E-01	1.040E-01	7.751E-02	6.056E-02	4.896E-02

Table 1 (continued)

Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
134	3.973E-01	2.308E-01	1.481E-01	1.033E-01	7.695E-02	6.011E-02	4.857E-02
135	3.973E-01	2.302E-01	1.474E-01	1.027E-01	7.641E-02	5.967E-02	4.821E-02
136	3.974E-01	2.296E-01	1.467E-01	1.021E-01	7.588E-02	5.924E-02	4.785E-02
137	3.974E-01	2.289E-01	1.460E-01	1.014E-01	7.538E-02	5.882E-02	4.751E-02
138	3.976E-01	2.284E-01	1.453E-01	1.009E-01	7.489E-02	5.843E-02	4.718E-02
139	3.977E-01	2.278E-01	1.447E-01	1.003E-01	7.441E-02	5.804E-02	4.686E-02
140	3.979E-01	2.273E-01	1.440E-01	9.971E-02	7.395E-02	5.766E-02	4.655E-02
141	3.980E-01	2.268E-01	1.434E-01	9.918E-02	7.351E-02	5.730E-02	4.625E-02
142	3.982E-01	2.263E-01	1.429E-01	9.866E-02	7.308E-02	5.695E-02	4.596E-02
143	3.983E-01	2.259E-01	1.423E-01	9.815E-02	7.267E-02	5.661E-02	4.568E-02
144	3.985E-01	2.254E-01	1.417E-01	9.767E-02	7.226E-02	5.629E-02	4.541E-02
145	3.987E-01	2.250E-01	1.412E-01	9.720E-02	7.188E-02	5.597E-02	4.515E-02
146	3.989E-01	2.246E-01	1.407E-01	9.675E-02	7.151E-02	5.567E-02	4.490E-02
147	3.991E-01	2.242E-01	1.402E-01	9.631E-02	7.115E-02	5.538E-02	4.466E-02
148	3.993E-01	2.238E-01	1.398E-01	9.589E-02	7.080E-02	5.509E-02	4.443E-02
149	3.994E-01	2.234E-01	1.393E-01	9.549E-02	7.047E-02	5.483E-02	4.421E-02
150	3.996E-01	2.231E-01	1.389E-01	9.510E-02	7.015E-02	5.457E-02	4.399E-02
151	3.998E-01	2.228E-01	1.385E-01	9.472E-02	6.984E-02	5.431E-02	4.378E-02
152	4.000E-01	2.225E-01	1.381E-01	9.436E-02	6.954E-02	5.408E-02	4.359E-02
153	4.002E-01	2.222E-01	1.377E-01	9.402E-02	6.926E-02	5.385E-02	4.340E-02
154	4.004E-01	2.219E-01	1.373E-01	9.369E-02	6.899E-02	5.362E-02	4.321E-02
155	4.006E-01	2.216E-01	1.369E-01	9.336E-02	6.872E-02	5.341E-02	4.304E-02
156	4.008E-01	2.213E-01	1.366E-01	9.306E-02	6.847E-02	5.321E-02	4.288E-02
157	4.009E-01	2.211E-01	1.363E-01	9.277E-02	6.824E-02	5.302E-02	4.272E-02
158	4.011E-01	2.209E-01	1.360E-01	9.250E-02	6.802E-02	5.283E-02	4.257E-02
159	4.013E-01	2.206E-01	1.357E-01	9.223E-02	6.780E-02	5.266E-02	4.242E-02
160	4.015E-01	2.204E-01	1.354E-01	9.198E-02	6.759E-02	5.250E-02	4.229E-02
161	4.017E-01	2.202E-01	1.351E-01	9.175E-02	6.740E-02	5.234E-02	4.216E-02
162	4.018E-01	2.200E-01	1.349E-01	9.152E-02	6.722E-02	5.219E-02	4.204E-02
163	4.019E-01	2.198E-01	1.347E-01	9.131E-02	6.704E-02	5.205E-02	4.192E-02
164	4.020E-01	2.197E-01	1.344E-01	9.110E-02	6.688E-02	5.192E-02	4.181E-02
165	4.021E-01	2.195E-01	1.342E-01	9.093E-02	6.673E-02	5.180E-02	4.172E-02
166	4.023E-01	2.194E-01	1.340E-01	9.076E-02	6.659E-02	5.168E-02	4.162E-02
167	4.025E-01	2.192E-01	1.338E-01	9.059E-02	6.645E-02	5.158E-02	4.153E-02
168	4.026E-01	2.191E-01	1.337E-01	9.043E-02	6.633E-02	5.148E-02	4.146E-02
169	4.027E-01	2.190E-01	1.335E-01	9.031E-02	6.623E-02	5.139E-02	4.138E-02
170	4.028E-01	2.189E-01	1.334E-01	9.018E-02	6.613E-02	5.131E-02	4.131E-02
171	4.028E-01	2.188E-01	1.333E-01	9.006E-02	6.602E-02	5.124E-02	4.125E-02
172	4.029E-01	2.187E-01	1.332E-01	8.996E-02	6.594E-02	5.117E-02	4.120E-02
173	4.030E-01	2.186E-01	1.331E-01	8.988E-02	6.588E-02	5.111E-02	4.115E-02
174	4.031E-01	2.185E-01	1.330E-01	8.981E-02	6.582E-02	5.107E-02	4.111E-02
175	4.032E-01	2.185E-01	1.329E-01	8.973E-02	6.575E-02	5.102E-02	4.108E-02
176	4.033E-01	2.185E-01	1.328E-01	8.967E-02	6.571E-02	5.098E-02	4.104E-02
177	4.032E-01	2.185E-01	1.328E-01	8.965E-02	6.569E-02	5.096E-02	4.102E-02
178	4.031E-01	2.184E-01	1.328E-01	8.962E-02	6.567E-02	5.095E-02	4.101E-02
179	4.030E-01	2.183E-01	1.327E-01	8.958E-02	6.563E-02	5.092E-02	4.100E-02
180	4.030E-01	2.183E-01	1.327E-01	8.955E-02	6.561E-02	5.090E-02	4.098E-02
Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
0	3.661E+00	2.940E+00	2.465E+00	2.152E+00	1.928E+00	1.574E+00	1.359E+00
1	3.471E+00	2.692E+00	2.193E+00	1.867E+00	1.639E+00	1.294E+00	1.105E+00
2	3.290E+00	2.465E+00	1.951E+00	1.620E+00	1.393E+00	1.064E+00	8.984E-01
3	3.123E+00	2.271E+00	1.755E+00	1.428E+00	1.212E+00	9.159E-01	7.836E-01
4	2.963E+00	2.088E+00	1.574E+00	1.264E+00	1.063E+00	8.056E-01	7.027E-01
5	2.807E+00	1.920E+00	1.419E+00	1.121E+00	9.376E-01	7.166E-01	6.351E-01
6	2.662E+00	1.768E+00	1.279E+00	1.003E+00	8.382E-01	6.498E-01	5.821E-01
7	2.522E+00	1.626E+00	1.157E+00	8.988E-01	7.510E-01	5.891E-01	5.282E-01
8	2.389E+00	1.498E+00	1.048E+00	8.101E-01	6.783E-01	5.372E-01	4.786E-01
9	2.262E+00	1.379E+00	9.507E-01	7.330E-01	6.154E-01	4.901E-01	4.310E-01
10	2.141E+00	1.271E+00	8.648E-01	6.643E-01	5.592E-01	4.451E-01	3.843E-01
11	2.027E+00	1.171E+00	7.872E-01	6.050E-01	5.107E-01	4.047E-01	3.424E-01
12	1.917E+00	1.079E+00	7.185E-01	5.513E-01	4.662E-01	3.658E-01	3.024E-01
13	1.814E+00	9.953E-01	6.562E-01	5.038E-01	4.264E-01	3.302E-01	2.666E-01

(continued on next page)

Table 1 (continued)

Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
14	1.715E+00	9.179E-01	6.008E-01	4.614E-01	3.905E-01	2.974E-01	2.347E-01
15	1.621E+00	8.474E-01	5.505E-01	4.226E-01	3.571E-01	2.667E-01	2.057E-01
16	1.533E+00	7.824E-01	5.053E-01	3.882E-01	3.272E-01	2.394E-01	1.808E-01
17	1.448E+00	7.229E-01	4.644E-01	3.565E-01	2.995E-01	2.142E-01	1.585E-01
18	1.368E+00	6.684E-01	4.273E-01	3.278E-01	2.741E-01	1.916E-01	1.391E-01
19	1.293E+00	6.182E-01	3.938E-01	3.019E-01	2.510E-01	1.716E-01	1.224E-01
20	1.221E+00	5.725E-01	3.633E-01	2.779E-01	2.295E-01	1.533E-01	1.076E-01
21	1.153E+00	5.302E-01	3.357E-01	2.562E-01	2.102E-01	1.373E-01	9.493E-02
22	1.089E+00	4.917E-01	3.104E-01	2.362E-01	1.923E-01	1.229E-01	8.379E-02
23	1.028E+00	4.563E-01	2.875E-01	2.179E-01	1.760E-01	1.101E-01	7.409E-02
24	9.713E-01	4.238E-01	2.664E-01	2.013E-01	1.612E-01	9.887E-02	6.579E-02
25	9.172E-01	3.940E-01	2.473E-01	1.858E-01	1.475E-01	8.874E-02	5.837E-02
26	8.664E-01	3.666E-01	2.297E-01	1.718E-01	1.352E-01	7.991E-02	5.204E-02
27	8.184E-01	3.416E-01	2.136E-01	1.589E-01	1.239E-01	7.202E-02	4.646E-02
28	7.731E-01	3.185E-01	1.989E-01	1.470E-01	1.136E-01	6.498E-02	4.153E-02
29	7.306E-01	2.973E-01	1.853E-01	1.361E-01	1.043E-01	5.882E-02	3.730E-02
30	6.905E-01	2.778E-01	1.729E-01	1.261E-01	9.578E-02	5.324E-02	3.348E-02
31	6.528E-01	2.599E-01	1.614E-01	1.169E-01	8.808E-02	4.833E-02	3.019E-02
32	6.174E-01	2.435E-01	1.509E-01	1.085E-01	8.107E-02	4.395E-02	2.727E-02
33	5.840E-01	2.282E-01	1.411E-01	1.007E-01	7.464E-02	3.999E-02	2.465E-02
34	5.527E-01	2.143E-01	1.321E-01	9.357E-02	6.887E-02	3.653E-02	2.239E-02
35	5.232E-01	2.013E-01	1.238E-01	8.697E-02	6.355E-02	3.336E-02	2.033E-02
36	4.956E-01	1.894E-01	1.161E-01	8.094E-02	5.874E-02	3.055E-02	1.852E-02
37	4.697E-01	1.784E-01	1.090E-01	7.539E-02	5.436E-02	2.803E-02	1.691E-02
38	4.453E-01	1.682E-01	1.024E-01	7.024E-02	5.032E-02	2.572E-02	1.544E-02
39	4.224E-01	1.588E-01	9.624E-02	6.556E-02	4.670E-02	2.369E-02	1.417E-02
40	4.009E-01	1.500E-01	9.053E-02	6.120E-02	4.334E-02	2.183E-02	1.299E-02
41	3.808E-01	1.419E-01	8.526E-02	5.719E-02	4.029E-02	2.015E-02	1.195E-02
42	3.619E-01	1.343E-01	8.032E-02	5.351E-02	3.751E-02	1.864E-02	1.102E-02
43	3.441E-01	1.273E-01	7.575E-02	5.008E-02	3.494E-02	1.724E-02	1.015E-02
44	3.275E-01	1.208E-01	7.148E-02	4.695E-02	3.261E-02	1.600E-02	9.395E-03
45	3.118E-01	1.147E-01	6.751E-02	4.403E-02	3.045E-02	1.486E-02	8.694E-03
46	2.972E-01	1.090E-01	6.380E-02	4.133E-02	2.847E-02	1.381E-02	8.057E-03
47	2.834E-01	1.037E-01	6.034E-02	3.886E-02	2.666E-02	1.288E-02	7.493E-03
48	2.704E-01	9.872E-02	5.712E-02	3.653E-02	2.498E-02	1.200E-02	6.958E-03
49	2.583E-01	9.407E-02	5.409E-02	3.441E-02	2.344E-02	1.121E-02	6.488E-03
50	2.469E-01	8.971E-02	5.128E-02	3.242E-02	2.202E-02	1.048E-02	6.051E-03
51	2.361E-01	8.564E-02	4.863E-02	3.057E-02	2.070E-02	9.807E-03	5.646E-03
52	2.261E-01	8.180E-02	4.616E-02	2.888E-02	1.949E-02	9.202E-03	5.289E-03
53	2.166E-01	7.821E-02	4.384E-02	2.728E-02	1.836E-02	8.627E-03	4.946E-03
54	2.076E-01	7.482E-02	4.167E-02	2.580E-02	1.732E-02	8.110E-03	4.641E-03
55	1.992E-01	7.163E-02	3.964E-02	2.443E-02	1.635E-02	7.630E-03	4.359E-03
56	1.913E-01	6.864E-02	3.772E-02	2.314E-02	1.545E-02	7.179E-03	4.092E-03
57	1.839E-01	6.580E-02	3.594E-02	2.195E-02	1.462E-02	6.775E-03	3.857E-03
58	1.768E-01	6.313E-02	3.425E-02	2.083E-02	1.384E-02	6.389E-03	3.629E-03
59	1.702E-01	6.060E-02	3.267E-02	1.978E-02	1.312E-02	6.037E-03	3.424E-03
60	1.640E-01	5.821E-02	3.117E-02	1.881E-02	1.245E-02	5.711E-03	3.235E-03
61	1.581E-01	5.596E-02	2.978E-02	1.789E-02	1.181E-02	5.401E-03	3.053E-03
62	1.525E-01	5.381E-02	2.845E-02	1.704E-02	1.123E-02	5.123E-03	2.893E-03
63	1.472E-01	5.179E-02	2.721E-02	1.624E-02	1.068E-02	4.856E-03	2.737E-03
64	1.422E-01	4.987E-02	2.604E-02	1.549E-02	1.016E-02	4.609E-03	2.595E-03
65	1.375E-01	4.805E-02	2.493E-02	1.478E-02	9.686E-03	4.382E-03	2.465E-03
66	1.330E-01	4.632E-02	2.389E-02	1.412E-02	9.230E-03	4.163E-03	2.337E-03
67	1.288E-01	4.467E-02	2.291E-02	1.350E-02	8.811E-03	3.966E-03	2.225E-03
68	1.248E-01	4.311E-02	2.198E-02	1.291E-02	8.412E-03	3.777E-03	2.116E-03
69	1.210E-01	4.162E-02	2.110E-02	1.236E-02	8.037E-03	3.600E-03	2.014E-03
70	1.173E-01	4.021E-02	2.027E-02	1.184E-02	7.689E-03	3.438E-03	1.922E-03
71	1.139E-01	3.886E-02	1.948E-02	1.134E-02	7.355E-03	3.279E-03	1.831E-03
72	1.106E-01	3.758E-02	1.873E-02	1.088E-02	7.047E-03	3.136E-03	1.750E-03
73	1.075E-01	3.636E-02	1.803E-02	1.045E-02	6.753E-03	2.999E-03	1.672E-03
74	1.046E-01	3.519E-02	1.736E-02	1.003E-02	6.474E-03	2.869E-03	1.597E-03
75	1.018E-01	3.408E-02	1.672E-02	9.645E-03	6.216E-03	2.751E-03	1.531E-03
76	9.907E-02	3.302E-02	1.612E-02	9.272E-03	5.967E-03	2.634E-03	1.464E-03
77	9.651E-02	3.201E-02	1.555E-02	8.924E-03	5.735E-03	2.528E-03	1.404E-03

Table 1 (continued)

Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
78	9.407E-02	3.104E-02	1.500E-02	8.593E-03	5.515E-03	2.427E-03	1.347E-03
79	9.173E-02	3.011E-02	1.449E-02	8.277E-03	5.305E-03	2.329E-03	1.291E-03
80	8.951E-02	2.923E-02	1.399E-02	7.982E-03	5.110E-03	2.241E-03	1.242E-03
81	8.737E-02	2.838E-02	1.353E-02	7.697E-03	4.920E-03	2.153E-03	1.192E-03
82	8.534E-02	2.758E-02	1.308E-02	7.429E-03	4.744E-03	2.073E-03	1.147E-03
83	8.338E-02	2.680E-02	1.266E-02	7.175E-03	4.576E-03	1.997E-03	1.104E-03
84	8.152E-02	2.606E-02	1.226E-02	6.931E-03	4.414E-03	1.922E-03	1.062E-03
85	7.973E-02	2.535E-02	1.187E-02	6.703E-03	4.265E-03	1.856E-03	1.025E-03
86	7.801E-02	2.467E-02	1.151E-02	6.482E-03	4.119E-03	1.789E-03	9.871E-04
87	7.636E-02	2.401E-02	1.115E-02	6.273E-03	3.982E-03	1.727E-03	9.523E-04
88	7.478E-02	2.339E-02	1.082E-02	6.075E-03	3.852E-03	1.669E-03	9.203E-04
89	7.327E-02	2.279E-02	1.050E-02	5.883E-03	3.726E-03	1.612E-03	8.874E-04
90	7.181E-02	2.221E-02	1.020E-02	5.704E-03	3.610E-03	1.560E-03	8.590E-04
91	7.041E-02	2.166E-02	9.904E-03	5.531E-03	3.496E-03	1.509E-03	8.300E-04
92	6.907E-02	2.113E-02	9.626E-03	5.366E-03	3.388E-03	1.460E-03	8.028E-04
93	6.777E-02	2.062E-02	9.360E-03	5.210E-03	3.287E-03	1.415E-03	7.783E-04
94	6.653E-02	2.013E-02	9.104E-03	5.058E-03	3.188E-03	1.370E-03	7.525E-04
95	6.533E-02	1.966E-02	8.861E-03	4.916E-03	3.095E-03	1.330E-03	7.303E-04
96	6.417E-02	1.920E-02	8.626E-03	4.778E-03	3.006E-03	1.290E-03	7.079E-04
97	6.306E-02	1.877E-02	8.403E-03	4.646E-03	2.920E-03	1.251E-03	6.862E-04
98	6.199E-02	1.835E-02	8.188E-03	4.522E-03	2.840E-03	1.216E-03	6.672E-04
99	6.096E-02	1.795E-02	7.983E-03	4.400E-03	2.761E-03	1.180E-03	6.469E-04
100	5.996E-02	1.756E-02	7.785E-03	4.286E-03	2.687E-03	1.148E-03	6.292E-04
101	5.900E-02	1.719E-02	7.596E-03	4.176E-03	2.616E-03	1.117E-03	6.117E-04
102	5.807E-02	1.683E-02	7.414E-03	4.069E-03	2.547E-03	1.086E-03	5.942E-04
103	5.717E-02	1.648E-02	7.239E-03	3.969E-03	2.482E-03	1.058E-03	5.793E-04
104	5.631E-02	1.615E-02	7.072E-03	3.871E-03	2.419E-03	1.029E-03	5.631E-04
105	5.547E-02	1.583E-02	6.911E-03	3.778E-03	2.359E-03	1.003E-03	5.487E-04
106	5.467E-02	1.552E-02	6.757E-03	3.689E-03	2.302E-03	9.783E-04	5.351E-04
107	5.389E-02	1.522E-02	6.608E-03	3.603E-03	2.246E-03	9.532E-04	5.208E-04
108	5.313E-02	1.493E-02	6.465E-03	3.521E-03	2.194E-03	9.309E-04	5.089E-04
109	5.241E-02	1.466E-02	6.328E-03	3.441E-03	2.143E-03	9.080E-04	4.959E-04
110	5.170E-02	1.439E-02	6.196E-03	3.365E-03	2.094E-03	8.867E-04	4.842E-04
111	5.102E-02	1.413E-02	6.068E-03	3.293E-03	2.048E-03	8.668E-04	4.734E-04
112	5.036E-02	1.388E-02	5.946E-03	3.222E-03	2.002E-03	8.463E-04	4.617E-04
113	4.973E-02	1.364E-02	5.829E-03	3.155E-03	1.959E-03	8.282E-04	4.521E-04
114	4.911E-02	1.341E-02	5.715E-03	3.090E-03	1.918E-03	8.097E-04	4.417E-04
115	4.851E-02	1.319E-02	5.606E-03	3.027E-03	1.878E-03	7.922E-04	4.319E-04
116	4.794E-02	1.297E-02	5.501E-03	2.968E-03	1.840E-03	7.761E-04	4.233E-04
117	4.738E-02	1.277E-02	5.400E-03	2.909E-03	1.802E-03	7.593E-04	4.137E-04
118	4.684E-02	1.256E-02	5.302E-03	2.854E-03	1.767E-03	7.445E-04	4.058E-04
119	4.631E-02	1.237E-02	5.208E-03	2.801E-03	1.733E-03	7.295E-04	3.975E-04
120	4.581E-02	1.218E-02	5.117E-03	2.749E-03	1.700E-03	7.149E-04	3.893E-04
121	4.532E-02	1.200E-02	5.030E-03	2.700E-03	1.669E-03	7.020E-04	3.825E-04
122	4.484E-02	1.183E-02	4.946E-03	2.652E-03	1.638E-03	6.881E-04	3.745E-04
123	4.438E-02	1.166E-02	4.865E-03	2.606E-03	1.609E-03	6.759E-04	3.680E-04
124	4.393E-02	1.150E-02	4.787E-03	2.562E-03	1.581E-03	6.637E-04	3.613E-04
125	4.350E-02	1.134E-02	4.711E-03	2.519E-03	1.554E-03	6.515E-04	3.544E-04
126	4.309E-02	1.119E-02	4.639E-03	2.478E-03	1.528E-03	6.410E-04	3.489E-04
127	4.268E-02	1.104E-02	4.568E-03	2.438E-03	1.502E-03	6.295E-04	3.423E-04
128	4.229E-02	1.090E-02	4.501E-03	2.400E-03	1.479E-03	6.194E-04	3.368E-04
129	4.191E-02	1.076E-02	4.435E-03	2.363E-03	1.455E-03	6.095E-04	3.315E-04
130	4.155E-02	1.063E-02	4.373E-03	2.328E-03	1.432E-03	5.993E-04	3.256E-04
131	4.119E-02	1.050E-02	4.312E-03	2.294E-03	1.412E-03	5.907E-04	3.212E-04
132	4.085E-02	1.038E-02	4.253E-03	2.261E-03	1.390E-03	5.812E-04	3.158E-04
133	4.051E-02	1.026E-02	4.197E-03	2.229E-03	1.370E-03	5.727E-04	3.112E-04
134	4.019E-02	1.014E-02	4.143E-03	2.199E-03	1.351E-03	5.648E-04	3.070E-04
135	3.988E-02	1.003E-02	4.091E-03	2.169E-03	1.332E-03	5.562E-04	3.020E-04
136	3.958E-02	9.922E-03	4.040E-03	2.141E-03	1.315E-03	5.491E-04	2.984E-04
137	3.929E-02	9.819E-03	3.991E-03	2.114E-03	1.297E-03	5.414E-04	2.940E-04
138	3.901E-02	9.719E-03	3.944E-03	2.087E-03	1.281E-03	5.342E-04	2.900E-04
139	3.874E-02	9.622E-03	3.899E-03	2.063E-03	1.265E-03	5.279E-04	2.868E-04
140	3.847E-02	9.529E-03	3.856E-03	2.038E-03	1.249E-03	5.206E-04	2.825E-04

(continued on next page)

Table 1 (continued)

Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
141	3.822E-02	9.439E-03	3.814E-03	2.015E-03	1.235E-03	5.149E-04	2.796E-04
142	3.798E-02	9.353E-03	3.774E-03	1.992E-03	1.221E-03	5.086E-04	2.761E-04
143	3.774E-02	9.270E-03	3.735E-03	1.970E-03	1.207E-03	5.025E-04	2.726E-04
144	3.751E-02	9.190E-03	3.697E-03	1.950E-03	1.194E-03	4.975E-04	2.701E-04
145	3.729E-02	9.112E-03	3.661E-03	1.929E-03	1.181E-03	4.915E-04	2.665E-04
146	3.708E-02	9.038E-03	3.627E-03	1.911E-03	1.170E-03	4.867E-04	2.641E-04
147	3.688E-02	8.967E-03	3.594E-03	1.892E-03	1.158E-03	4.818E-04	2.614E-04
148	3.668E-02	8.898E-03	3.562E-03	1.874E-03	1.146E-03	4.766E-04	2.584E-04
149	3.649E-02	8.832E-03	3.531E-03	1.858E-03	1.136E-03	4.727E-04	2.566E-04
150	3.631E-02	8.769E-03	3.502E-03	1.841E-03	1.126E-03	4.677E-04	2.536E-04
151	3.614E-02	8.708E-03	3.474E-03	1.826E-03	1.116E-03	4.639E-04	2.516E-04
152	3.597E-02	8.650E-03	3.447E-03	1.811E-03	1.107E-03	4.600E-04	2.495E-04
153	3.581E-02	8.595E-03	3.422E-03	1.796E-03	1.097E-03	4.557E-04	2.469E-04
154	3.566E-02	8.541E-03	3.397E-03	1.783E-03	1.090E-03	4.527E-04	2.456E-04
155	3.551E-02	8.491E-03	3.374E-03	1.770E-03	1.081E-03	4.487E-04	2.432E-04
156	3.537E-02	8.442E-03	3.351E-03	1.757E-03	1.073E-03	4.455E-04	2.415E-04
157	3.524E-02	8.396E-03	3.330E-03	1.746E-03	1.066E-03	4.427E-04	2.401E-04
158	3.511E-02	8.352E-03	3.310E-03	1.734E-03	1.059E-03	4.391E-04	2.378E-04
159	3.499E-02	8.310E-03	3.291E-03	1.724E-03	1.053E-03	4.369E-04	2.370E-04
160	3.487E-02	8.271E-03	3.273E-03	1.714E-03	1.046E-03	4.339E-04	2.351E-04
161	3.476E-02	8.233E-03	3.255E-03	1.704E-03	1.040E-03	4.313E-04	2.336E-04
162	3.466E-02	8.198E-03	3.239E-03	1.696E-03	1.035E-03	4.294E-04	2.329E-04
163	3.457E-02	8.165E-03	3.224E-03	1.687E-03	1.029E-03	4.264E-04	2.309E-04
164	3.447E-02	8.134E-03	3.210E-03	1.679E-03	1.024E-03	4.250E-04	2.304E-04
165	3.439E-02	8.104E-03	3.196E-03	1.672E-03	1.020E-03	4.227E-04	2.291E-04
166	3.431E-02	8.077E-03	3.184E-03	1.665E-03	1.015E-03	4.206E-04	2.278E-04
167	3.424E-02	8.052E-03	3.172E-03	1.659E-03	1.012E-03	4.197E-04	2.276E-04
168	3.417E-02	8.029E-03	3.162E-03	1.652E-03	1.007E-03	4.172E-04	2.258E-04
169	3.411E-02	8.008E-03	3.152E-03	1.647E-03	1.004E-03	4.164E-04	2.257E-04
170	3.405E-02	7.988E-03	3.143E-03	1.642E-03	1.001E-03	4.150E-04	2.249E-04
171	3.400E-02	7.971E-03	3.135E-03	1.638E-03	9.980E-04	4.133E-04	2.237E-04
172	3.395E-02	7.955E-03	3.128E-03	1.634E-03	9.964E-04	4.133E-04	2.242E-04
173	3.392E-02	7.941E-03	3.122E-03	1.630E-03	9.934E-04	4.113E-04	2.226E-04
174	3.388E-02	7.930E-03	3.116E-03	1.628E-03	9.920E-04	4.111E-04	2.227E-04
175	3.385E-02	7.919E-03	3.112E-03	1.625E-03	9.906E-04	4.107E-04	2.226E-04
176	3.383E-02	7.911E-03	3.108E-03	1.622E-03	9.884E-04	4.090E-04	2.212E-04
177	3.381E-02	7.905E-03	3.105E-03	1.622E-03	9.888E-04	4.102E-04	2.227E-04
178	3.380E-02	7.900E-03	3.103E-03	1.620E-03	9.868E-04	4.084E-04	2.209E-04
179	3.379E-02	7.898E-03	3.102E-03	1.619E-03	9.868E-04	4.087E-04	2.214E-04
180	3.378E-02	7.896E-03	3.102E-03	1.621E-03	9.895E-04	4.120E-04	2.248E-04

Table 2

Differential cross sections for elastic electron scattering from neon. See page 17 for Explanation of Tables

Angle	1 eV	2.5 eV	5 eV	7.5 eV	10 eV	15 eV	20 eV
0	2.066E-02	1.254E-01	4.567E-01	6.276E-01	7.553E-01	1.246E+00	1.933E+00
1	1.906E-02	1.311E-01	4.698E-01	6.411E-01	7.642E-01	1.241E+00	1.910E+00
2	1.620E-02	1.423E-01	4.952E-01	6.676E-01	7.825E-01	1.234E+00	1.872E+00
3	1.378E-02	1.529E-01	5.188E-01	6.926E-01	8.007E-01	1.231E+00	1.840E+00
4	1.155E-02	1.640E-01	5.434E-01	7.190E-01	8.206E-01	1.229E+00	1.812E+00
5	9.542E-03	1.753E-01	5.682E-01	7.459E-01	8.416E-01	1.230E+00	1.786E+00
6	7.778E-03	1.867E-01	5.928E-01	7.731E-01	8.634E-01	1.233E+00	1.764E+00
7	6.202E-03	1.984E-01	6.179E-01	8.011E-01	8.866E-01	1.238E+00	1.745E+00
8	4.840E-03	2.101E-01	6.429E-01	8.289E-01	9.101E-01	1.244E+00	1.728E+00
9	3.665E-03	2.220E-01	6.679E-01	8.572E-01	9.345E-01	1.252E+00	1.714E+00
10	2.681E-03	2.339E-01	6.929E-01	8.856E-01	9.595E-01	1.262E+00	1.702E+00
11	1.876E-03	2.459E-01	7.177E-01	9.142E-01	9.851E-01	1.273E+00	1.692E+00
12	1.239E-03	2.579E-01	7.425E-01	9.428E-01	1.011E+00	1.285E+00	1.685E+00
13	7.667E-04	2.700E-01	7.671E-01	9.713E-01	1.037E+00	1.298E+00	1.679E+00
14	4.502E-04	2.820E-01	7.915E-01	9.998E-01	1.064E+00	1.313E+00	1.674E+00
15	2.822E-04	2.941E-01	8.156E-01	1.028E+00	1.091E+00	1.328E+00	1.671E+00
16	2.558E-04	3.060E-01	8.393E-01	1.056E+00	1.118E+00	1.344E+00	1.670E+00
17	3.641E-04	3.179E-01	8.629E-01	1.084E+00	1.145E+00	1.361E+00	1.670E+00
18	6.002E-04	3.298E-01	8.860E-01	1.112E+00	1.172E+00	1.379E+00	1.671E+00
19	9.577E-04	3.416E-01	9.088E-01	1.139E+00	1.200E+00	1.397E+00	1.674E+00
20	1.430E-03	3.532E-01	9.312E-01	1.166E+00	1.227E+00	1.415E+00	1.677E+00
21	2.011E-03	3.647E-01	9.531E-01	1.193E+00	1.253E+00	1.434E+00	1.681E+00
22	2.695E-03	3.761E-01	9.747E-01	1.219E+00	1.280E+00	1.454E+00	1.686E+00
23	3.474E-03	3.873E-01	9.955E-01	1.245E+00	1.307E+00	1.473E+00	1.692E+00
24	4.345E-03	3.983E-01	1.016E+00	1.270E+00	1.333E+00	1.493E+00	1.699E+00
25	5.300E-03	4.091E-01	1.036E+00	1.294E+00	1.359E+00	1.513E+00	1.706E+00
26	6.335E-03	4.198E-01	1.055E+00	1.318E+00	1.384E+00	1.533E+00	1.714E+00
27	7.444E-03	4.302E-01	1.074E+00	1.341E+00	1.409E+00	1.553E+00	1.722E+00
28	8.621E-03	4.404E-01	1.092E+00	1.364E+00	1.433E+00	1.573E+00	1.730E+00
29	9.863E-03	4.504E-01	1.110E+00	1.386E+00	1.457E+00	1.593E+00	1.739E+00
30	1.116E-02	4.602E-01	1.127E+00	1.407E+00	1.480E+00	1.612E+00	1.748E+00
31	1.252E-02	4.697E-01	1.143E+00	1.428E+00	1.503E+00	1.632E+00	1.758E+00
32	1.392E-02	4.789E-01	1.158E+00	1.447E+00	1.525E+00	1.651E+00	1.767E+00
33	1.537E-02	4.879E-01	1.173E+00	1.466E+00	1.546E+00	1.669E+00	1.776E+00
34	1.685E-02	4.966E-01	1.187E+00	1.484E+00	1.567E+00	1.687E+00	1.785E+00
35	1.837E-02	5.050E-01	1.201E+00	1.501E+00	1.586E+00	1.705E+00	1.794E+00
36	1.993E-02	5.131E-01	1.214E+00	1.518E+00	1.605E+00	1.722E+00	1.803E+00
37	2.151E-02	5.210E-01	1.226E+00	1.533E+00	1.623E+00	1.738E+00	1.812E+00
38	2.312E-02	5.285E-01	1.237E+00	1.547E+00	1.640E+00	1.753E+00	1.820E+00
39	2.474E-02	5.357E-01	1.247E+00	1.561E+00	1.656E+00	1.768E+00	1.828E+00
40	2.638E-02	5.426E-01	1.257E+00	1.573E+00	1.671E+00	1.782E+00	1.835E+00
41	2.803E-02	5.492E-01	1.266E+00	1.585E+00	1.685E+00	1.795E+00	1.841E+00
42	2.970E-02	5.554E-01	1.274E+00	1.595E+00	1.698E+00	1.807E+00	1.847E+00
43	3.136E-02	5.613E-01	1.281E+00	1.605E+00	1.710E+00	1.818E+00	1.852E+00
44	3.304E-02	5.669E-01	1.288E+00	1.613E+00	1.721E+00	1.828E+00	1.857E+00
45	3.471E-02	5.722E-01	1.294E+00	1.620E+00	1.731E+00	1.837E+00	1.860E+00
46	3.637E-02	5.771E-01	1.299E+00	1.627E+00	1.739E+00	1.845E+00	1.862E+00
47	3.803E-02	5.817E-01	1.303E+00	1.632E+00	1.746E+00	1.852E+00	1.864E+00
48	3.968E-02	5.859E-01	1.306E+00	1.636E+00	1.753E+00	1.857E+00	1.864E+00
49	4.132E-02	5.898E-01	1.309E+00	1.639E+00	1.757E+00	1.861E+00	1.864E+00
50	4.295E-02	5.933E-01	1.310E+00	1.641E+00	1.761E+00	1.864E+00	1.862E+00
51	4.456E-02	5.965E-01	1.311E+00	1.642E+00	1.764E+00	1.866E+00	1.859E+00
52	4.614E-02	5.994E-01	1.311E+00	1.642E+00	1.765E+00	1.866E+00	1.855E+00
53	4.771E-02	6.019E-01	1.311E+00	1.641E+00	1.765E+00	1.865E+00	1.849E+00
54	4.926E-02	6.041E-01	1.309E+00	1.638E+00	1.763E+00	1.862E+00	1.843E+00
55	5.078E-02	6.059E-01	1.307E+00	1.635E+00	1.761E+00	1.858E+00	1.835E+00
56	5.227E-02	6.073E-01	1.304E+00	1.630E+00	1.757E+00	1.853E+00	1.825E+00
57	5.374E-02	6.085E-01	1.300E+00	1.625E+00	1.752E+00	1.846E+00	1.814E+00
58	5.517E-02	6.093E-01	1.295E+00	1.618E+00	1.745E+00	1.838E+00	1.802E+00
59	5.657E-02	6.097E-01	1.290E+00	1.610E+00	1.737E+00	1.828E+00	1.788E+00
60	5.794E-02	6.098E-01	1.284E+00	1.601E+00	1.728E+00	1.817E+00	1.773E+00
61	5.928E-02	6.096E-01	1.277E+00	1.592E+00	1.718E+00	1.804E+00	1.757E+00

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Table 2 (continued)

Angle	1 eV	2.5 eV	5 eV	7.5 eV	10 eV	15 eV	20 eV
62	6.058E-02	6.091E-01	1.269E+00	1.581E+00	1.707E+00	1.790E+00	1.739E+00
63	6.184E-02	6.082E-01	1.261E+00	1.569E+00	1.694E+00	1.774E+00	1.720E+00
64	6.306E-02	6.071E-01	1.252E+00	1.556E+00	1.680E+00	1.757E+00	1.699E+00
65	6.424E-02	6.056E-01	1.242E+00	1.542E+00	1.665E+00	1.739E+00	1.677E+00
66	6.539E-02	6.038E-01	1.232E+00	1.527E+00	1.648E+00	1.719E+00	1.654E+00
67	6.649E-02	6.017E-01	1.221E+00	1.512E+00	1.631E+00	1.698E+00	1.629E+00
68	6.755E-02	5.992E-01	1.209E+00	1.495E+00	1.613E+00	1.675E+00	1.603E+00
69	6.857E-02	5.965E-01	1.197E+00	1.477E+00	1.593E+00	1.652E+00	1.576E+00
70	6.955E-02	5.936E-01	1.184E+00	1.459E+00	1.572E+00	1.627E+00	1.547E+00
71	7.048E-02	5.903E-01	1.171E+00	1.440E+00	1.551E+00	1.601E+00	1.518E+00
72	7.137E-02	5.867E-01	1.157E+00	1.420E+00	1.528E+00	1.573E+00	1.487E+00
73	7.221E-02	5.829E-01	1.142E+00	1.399E+00	1.504E+00	1.545E+00	1.455E+00
74	7.301E-02	5.788E-01	1.127E+00	1.378E+00	1.480E+00	1.516E+00	1.422E+00
75	7.377E-02	5.745E-01	1.111E+00	1.356E+00	1.454E+00	1.485E+00	1.389E+00
76	7.448E-02	5.699E-01	1.095E+00	1.333E+00	1.428E+00	1.454E+00	1.354E+00
77	7.515E-02	5.651E-01	1.079E+00	1.309E+00	1.401E+00	1.422E+00	1.319E+00
78	7.577E-02	5.601E-01	1.062E+00	1.285E+00	1.374E+00	1.389E+00	1.283E+00
79	7.635E-02	5.548E-01	1.045E+00	1.261E+00	1.346E+00	1.355E+00	1.246E+00
80	7.689E-02	5.493E-01	1.027E+00	1.236E+00	1.317E+00	1.321E+00	1.209E+00
81	7.738E-02	5.437E-01	1.009E+00	1.210E+00	1.287E+00	1.286E+00	1.172E+00
82	7.783E-02	5.378E-01	9.905E-01	1.184E+00	1.257E+00	1.251E+00	1.133E+00
83	7.823E-02	5.317E-01	9.718E-01	1.158E+00	1.227E+00	1.215E+00	1.095E+00
84	7.859E-02	5.255E-01	9.528E-01	1.132E+00	1.196E+00	1.178E+00	1.057E+00
85	7.891E-02	5.190E-01	9.336E-01	1.105E+00	1.165E+00	1.142E+00	1.018E+00
86	7.919E-02	5.125E-01	9.142E-01	1.078E+00	1.134E+00	1.105E+00	9.793E-01
87	7.942E-02	5.057E-01	8.946E-01	1.050E+00	1.102E+00	1.068E+00	9.407E-01
88	7.962E-02	4.989E-01	8.748E-01	1.023E+00	1.070E+00	1.031E+00	9.023E-01
89	7.977E-02	4.918E-01	8.549E-01	9.950E-01	1.038E+00	9.946E-01	8.641E-01
90	7.989E-02	4.847E-01	8.349E-01	9.673E-01	1.006E+00	9.579E-01	8.263E-01
91	7.997E-02	4.775E-01	8.147E-01	9.395E-01	9.744E-01	9.214E-01	7.888E-01
92	8.001E-02	4.701E-01	7.946E-01	9.118E-01	9.425E-01	8.851E-01	7.520E-01
93	8.001E-02	4.627E-01	7.744E-01	8.841E-01	9.108E-01	8.492E-01	7.157E-01
94	7.998E-02	4.551E-01	7.541E-01	8.565E-01	8.792E-01	8.138E-01	6.802E-01
95	7.991E-02	4.475E-01	7.339E-01	8.291E-01	8.479E-01	7.788E-01	6.455E-01
96	7.981E-02	4.398E-01	7.138E-01	8.018E-01	8.169E-01	7.445E-01	6.116E-01
97	7.967E-02	4.321E-01	6.937E-01	7.748E-01	7.862E-01	7.108E-01	5.787E-01
98	7.950E-02	4.243E-01	6.737E-01	7.480E-01	7.559E-01	6.778E-01	5.469E-01
99	7.930E-02	4.165E-01	6.538E-01	7.215E-01	7.261E-01	6.457E-01	5.163E-01
100	7.907E-02	4.086E-01	6.341E-01	6.954E-01	6.968E-01	6.145E-01	4.868E-01
101	7.881E-02	4.007E-01	6.146E-01	6.696E-01	6.681E-01	5.841E-01	4.586E-01
102	7.853E-02	3.928E-01	5.952E-01	6.442E-01	6.399E-01	5.549E-01	4.318E-01
103	7.821E-02	3.849E-01	5.760E-01	6.193E-01	6.124E-01	5.266E-01	4.065E-01
104	7.787E-02	3.770E-01	5.571E-01	5.948E-01	5.856E-01	4.996E-01	3.826E-01
105	7.751E-02	3.691E-01	5.384E-01	5.709E-01	5.595E-01	4.737E-01	3.603E-01
106	7.712E-02	3.612E-01	5.200E-01	5.475E-01	5.342E-01	4.490E-01	3.396E-01
107	7.670E-02	3.533E-01	5.019E-01	5.247E-01	5.097E-01	4.257E-01	3.206E-01
108	7.627E-02	3.455E-01	4.841E-01	5.025E-01	4.861E-01	4.036E-01	3.033E-01
109	7.581E-02	3.377E-01	4.666E-01	4.808E-01	4.633E-01	3.830E-01	2.877E-01
110	7.534E-02	3.299E-01	4.495E-01	4.599E-01	4.415E-01	3.638E-01	2.740E-01
111	7.485E-02	3.223E-01	4.327E-01	4.396E-01	4.206E-01	3.461E-01	2.621E-01
112	7.434E-02	3.146E-01	4.163E-01	4.200E-01	4.007E-01	3.298E-01	2.521E-01
113	7.381E-02	3.071E-01	4.003E-01	4.011E-01	3.818E-01	3.151E-01	2.440E-01
114	7.327E-02	2.996E-01	3.846E-01	3.829E-01	3.638E-01	3.019E-01	2.378E-01
115	7.271E-02	2.922E-01	3.694E-01	3.655E-01	3.470E-01	2.903E-01	2.336E-01
116	7.215E-02	2.848E-01	3.546E-01	3.488E-01	3.311E-01	2.802E-01	2.313E-01
117	7.157E-02	2.776E-01	3.402E-01	3.329E-01	3.164E-01	2.718E-01	2.310E-01
118	7.097E-02	2.705E-01	3.263E-01	3.178E-01	3.027E-01	2.649E-01	2.327E-01
119	7.037E-02	2.634E-01	3.128E-01	3.035E-01	2.901E-01	2.597E-01	2.363E-01
120	6.976E-02	2.565E-01	2.998E-01	2.899E-01	2.786E-01	2.560E-01	2.419E-01
121	6.915E-02	2.497E-01	2.872E-01	2.771E-01	2.681E-01	2.540E-01	2.494E-01
122	6.852E-02	2.430E-01	2.751E-01	2.652E-01	2.588E-01	2.536E-01	2.588E-01
123	6.789E-02	2.364E-01	2.634E-01	2.540E-01	2.506E-01	2.547E-01	2.702E-01
124	6.726E-02	2.299E-01	2.522E-01	2.437E-01	2.434E-01	2.574E-01	2.834E-01
125	6.662E-02	2.236E-01	2.415E-01	2.341E-01	2.373E-01	2.617E-01	2.984E-01

Table 2 (continued)

Angle	1 eV	2.5 eV	5 eV	7.5 eV	10 eV	15 eV	20 eV
126	6.598E-02	2.173E-01	2.313E-01	2.253E-01	2.323E-01	2.674E-01	3.153E-01
127	6.534E-02	2.112E-01	2.215E-01	2.173E-01	2.283E-01	2.747E-01	3.340E-01
128	6.470E-02	2.053E-01	2.122E-01	2.101E-01	2.254E-01	2.835E-01	3.543E-01
129	6.405E-02	1.995E-01	2.033E-01	2.036E-01	2.235E-01	2.936E-01	3.764E-01
130	6.341E-02	1.938E-01	1.949E-01	1.979E-01	2.226E-01	3.052E-01	4.000E-01
131	6.277E-02	1.882E-01	1.870E-01	1.929E-01	2.226E-01	3.181E-01	4.253E-01
132	6.213E-02	1.828E-01	1.795E-01	1.887E-01	2.236E-01	3.323E-01	4.520E-01
133	6.149E-02	1.775E-01	1.724E-01	1.851E-01	2.256E-01	3.477E-01	4.802E-01
134	6.086E-02	1.724E-01	1.658E-01	1.823E-01	2.284E-01	3.644E-01	5.097E-01
135	6.023E-02	1.674E-01	1.596E-01	1.801E-01	2.321E-01	3.822E-01	5.405E-01
136	5.961E-02	1.626E-01	1.538E-01	1.785E-01	2.366E-01	4.011E-01	5.725E-01
137	5.899E-02	1.579E-01	1.484E-01	1.776E-01	2.419E-01	4.210E-01	6.057E-01
138	5.838E-02	1.533E-01	1.435E-01	1.773E-01	2.480E-01	4.419E-01	6.399E-01
139	5.778E-02	1.489E-01	1.389E-01	1.776E-01	2.548E-01	4.637E-01	6.751E-01
140	5.718E-02	1.446E-01	1.347E-01	1.784E-01	2.622E-01	4.864E-01	7.112E-01
141	5.660E-02	1.404E-01	1.309E-01	1.797E-01	2.703E-01	5.098E-01	7.481E-01
142	5.602E-02	1.364E-01	1.274E-01	1.815E-01	2.790E-01	5.339E-01	7.857E-01
143	5.545E-02	1.326E-01	1.242E-01	1.838E-01	2.883E-01	5.586E-01	8.239E-01
144	5.489E-02	1.288E-01	1.214E-01	1.865E-01	2.980E-01	5.839E-01	8.626E-01
145	5.435E-02	1.252E-01	1.189E-01	1.897E-01	3.082E-01	6.097E-01	9.017E-01
146	5.381E-02	1.218E-01	1.167E-01	1.932E-01	3.189E-01	6.359E-01	9.412E-01
147	5.328E-02	1.185E-01	1.148E-01	1.971E-01	3.299E-01	6.624E-01	9.809E-01
148	5.277E-02	1.153E-01	1.131E-01	2.013E-01	3.412E-01	6.891E-01	1.021E+00
149	5.227E-02	1.122E-01	1.117E-01	2.057E-01	3.528E-01	7.161E-01	1.061E+00
150	5.178E-02	1.093E-01	1.105E-01	2.105E-01	3.646E-01	7.431E-01	1.100E+00
151	5.131E-02	1.065E-01	1.096E-01	2.154E-01	3.766E-01	7.701E-01	1.140E+00
152	5.085E-02	1.038E-01	1.089E-01	2.206E-01	3.888E-01	7.971E-01	1.179E+00
153	5.040E-02	1.012E-01	1.083E-01	2.259E-01	4.010E-01	8.240E-01	1.218E+00
154	4.996E-02	9.875E-02	1.080E-01	2.313E-01	4.132E-01	8.506E-01	1.257E+00
155	4.954E-02	9.641E-02	1.078E-01	2.368E-01	4.255E-01	8.770E-01	1.295E+00
156	4.914E-02	9.420E-02	1.077E-01	2.424E-01	4.377E-01	9.030E-01	1.332E+00
157	4.875E-02	9.209E-02	1.078E-01	2.481E-01	4.498E-01	9.286E-01	1.369E+00
158	4.837E-02	9.010E-02	1.080E-01	2.537E-01	4.617E-01	9.536E-01	1.405E+00
159	4.801E-02	8.821E-02	1.083E-01	2.593E-01	4.735E-01	9.781E-01	1.440E+00
160	4.767E-02	8.643E-02	1.087E-01	2.649E-01	4.850E-01	1.002E+00	1.474E+00
161	4.734E-02	8.475E-02	1.092E-01	2.704E-01	4.963E-01	1.025E+00	1.506E+00
162	4.703E-02	8.317E-02	1.098E-01	2.758E-01	5.072E-01	1.047E+00	1.538E+00
163	4.673E-02	8.169E-02	1.103E-01	2.810E-01	5.178E-01	1.069E+00	1.568E+00
164	4.645E-02	8.031E-02	1.110E-01	2.861E-01	5.280E-01	1.090E+00	1.598E+00
165	4.619E-02	7.902E-02	1.116E-01	2.910E-01	5.377E-01	1.109E+00	1.625E+00
166	4.594E-02	7.783E-02	1.123E-01	2.957E-01	5.470E-01	1.128E+00	1.651E+00
167	4.571E-02	7.672E-02	1.130E-01	3.002E-01	5.559E-01	1.146E+00	1.676E+00
168	4.550E-02	7.571E-02	1.136E-01	3.044E-01	5.641E-01	1.162E+00	1.699E+00
169	4.530E-02	7.478E-02	1.143E-01	3.084E-01	5.719E-01	1.178E+00	1.721E+00
170	4.512E-02	7.394E-02	1.149E-01	3.121E-01	5.790E-01	1.192E+00	1.741E+00
171	4.495E-02	7.318E-02	1.155E-01	3.155E-01	5.856E-01	1.205E+00	1.759E+00
172	4.481E-02	7.251E-02	1.160E-01	3.186E-01	5.915E-01	1.216E+00	1.775E+00
173	4.468E-02	7.192E-02	1.165E-01	3.213E-01	5.967E-01	1.227E+00	1.790E+00
174	4.457E-02	7.141E-02	1.170E-01	3.237E-01	6.014E-01	1.236E+00	1.802E+00
175	4.447E-02	7.098E-02	1.174E-01	3.258E-01	6.053E-01	1.244E+00	1.813E+00
176	4.439E-02	7.063E-02	1.177E-01	3.274E-01	6.085E-01	1.250E+00	1.822E+00
177	4.433E-02	7.036E-02	1.179E-01	3.288E-01	6.110E-01	1.255E+00	1.829E+00
178	4.429E-02	7.016E-02	1.181E-01	3.297E-01	6.128E-01	1.258E+00	1.834E+00
179	4.426E-02	7.005E-02	1.182E-01	3.303E-01	6.139E-01	1.261E+00	1.837E+00
180	4.425E-02	7.001E-02	1.183E-01	3.305E-01	6.143E-01	1.261E+00	1.838E+00
Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
0	3.593E+00	5.556E+00	6.810E+00	7.733E+00	8.410E+00	8.913E+00	9.292E+00
1	3.523E+00	5.435E+00	6.655E+00	7.548E+00	8.198E+00	8.676E+00	9.032E+00
2	3.398E+00	5.215E+00	6.375E+00	7.214E+00	7.815E+00	8.249E+00	8.566E+00
3	3.288E+00	5.021E+00	6.152E+00	6.922E+00	7.483E+00	7.881E+00	8.166E+00
4	3.184E+00	4.831E+00	5.881E+00	6.637E+00	7.160E+00	7.524E+00	7.783E+00
5	3.084E+00	4.648E+00	5.659E+00	6.365E+00	6.852E+00	7.186E+00	7.415E+00

(continued on next page)

Table 2 (continued)

Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
6	2.992E+00	4.475E+00	5.441E+00	6.109E+00	6.563E+00	6.869E+00	7.074E+00
7	2.903E+00	4.307E+00	5.229E+00	5.860E+00	6.282E+00	6.563E+00	6.745E+00
8	2.819E+00	4.147E+00	5.026E+00	5.622E+00	6.015E+00	6.271E+00	6.434E+00
9	2.740E+00	3.993E+00	4.832E+00	5.393E+00	5.759E+00	5.993E+00	6.136E+00
10	2.665E+00	3.844E+00	4.644E+00	5.174E+00	5.514E+00	5.726E+00	5.852E+00
11	2.594E+00	3.702E+00	4.464E+00	4.962E+00	5.277E+00	5.469E+00	5.579E+00
12	2.527E+00	3.565E+00	4.290E+00	4.759E+00	5.050E+00	5.223E+00	5.317E+00
13	2.463E+00	3.434E+00	4.123E+00	4.563E+00	4.831E+00	4.986E+00	5.066E+00
14	2.403E+00	3.307E+00	3.962E+00	4.374E+00	4.621E+00	4.758E+00	4.824E+00
15	2.346E+00	3.186E+00	3.807E+00	4.192E+00	4.418E+00	4.539E+00	4.592E+00
16	2.293E+00	3.070E+00	3.658E+00	4.017E+00	4.223E+00	4.328E+00	4.369E+00
17	2.242E+00	2.958E+00	3.514E+00	3.848E+00	4.034E+00	4.125E+00	4.154E+00
18	2.194E+00	2.852E+00	3.376E+00	3.686E+00	3.853E+00	3.930E+00	3.949E+00
19	2.149E+00	2.750E+00	3.243E+00	3.529E+00	3.679E+00	3.742E+00	3.750E+00
20	2.107E+00	2.652E+00	3.116E+00	3.380E+00	3.512E+00	3.563E+00	3.562E+00
21	2.067E+00	2.559E+00	2.994E+00	3.236E+00	3.352E+00	3.390E+00	3.380E+00
22	2.030E+00	2.471E+00	2.877E+00	3.098E+00	3.198E+00	3.225E+00	3.207E+00
23	1.995E+00	2.387E+00	2.766E+00	2.965E+00	3.051E+00	3.067E+00	3.041E+00
24	1.962E+00	2.307E+00	2.659E+00	2.838E+00	2.910E+00	2.916E+00	2.883E+00
25	1.932E+00	2.231E+00	2.557E+00	2.717E+00	2.775E+00	2.771E+00	2.732E+00
26	1.903E+00	2.159E+00	2.460E+00	2.602E+00	2.646E+00	2.634E+00	2.588E+00
27	1.877E+00	2.091E+00	2.367E+00	2.491E+00	2.524E+00	2.502E+00	2.451E+00
28	1.853E+00	2.027E+00	2.279E+00	2.386E+00	2.407E+00	2.378E+00	2.321E+00
29	1.830E+00	1.966E+00	2.196E+00	2.286E+00	2.296E+00	2.259E+00	2.198E+00
30	1.809E+00	1.910E+00	2.117E+00	2.191E+00	2.190E+00	2.147E+00	2.081E+00
31	1.790E+00	1.856E+00	2.042E+00	2.101E+00	2.090E+00	2.040E+00	1.971E+00
32	1.772E+00	1.807E+00	1.971E+00	2.016E+00	1.995E+00	1.939E+00	1.866E+00
33	1.756E+00	1.760E+00	1.904E+00	1.935E+00	1.904E+00	1.843E+00	1.768E+00
34	1.741E+00	1.716E+00	1.841E+00	1.858E+00	1.819E+00	1.753E+00	1.675E+00
35	1.727E+00	1.676E+00	1.781E+00	1.785E+00	1.739E+00	1.668E+00	1.587E+00
36	1.715E+00	1.638E+00	1.725E+00	1.717E+00	1.662E+00	1.587E+00	1.504E+00
37	1.703E+00	1.602E+00	1.672E+00	1.652E+00	1.591E+00	1.511E+00	1.426E+00
38	1.692E+00	1.570E+00	1.622E+00	1.591E+00	1.523E+00	1.439E+00	1.353E+00
39	1.682E+00	1.539E+00	1.575E+00	1.533E+00	1.459E+00	1.372E+00	1.284E+00
40	1.673E+00	1.511E+00	1.530E+00	1.479E+00	1.398E+00	1.309E+00	1.220E+00
41	1.664E+00	1.485E+00	1.489E+00	1.427E+00	1.341E+00	1.249E+00	1.159E+00
42	1.655E+00	1.460E+00	1.449E+00	1.379E+00	1.287E+00	1.192E+00	1.102E+00
43	1.647E+00	1.437E+00	1.412E+00	1.333E+00	1.236E+00	1.139E+00	1.048E+00
44	1.639E+00	1.416E+00	1.377E+00	1.289E+00	1.188E+00	1.089E+00	9.976E-01
45	1.632E+00	1.396E+00	1.344E+00	1.248E+00	1.143E+00	1.042E+00	9.501E-01
46	1.624E+00	1.377E+00	1.312E+00	1.209E+00	1.100E+00	9.974E-01	9.054E-01
47	1.616E+00	1.359E+00	1.282E+00	1.172E+00	1.059E+00	9.553E-01	8.633E-01
48	1.608E+00	1.342E+00	1.254E+00	1.137E+00	1.021E+00	9.155E-01	8.235E-01
49	1.599E+00	1.326E+00	1.226E+00	1.103E+00	9.840E-01	8.777E-01	7.860E-01
50	1.590E+00	1.310E+00	1.200E+00	1.071E+00	9.490E-01	8.419E-01	7.506E-01
51	1.581E+00	1.294E+00	1.174E+00	1.040E+00	9.156E-01	8.079E-01	7.170E-01
52	1.571E+00	1.279E+00	1.150E+00	1.010E+00	8.835E-01	7.754E-01	6.852E-01
53	1.560E+00	1.264E+00	1.125E+00	9.813E-01	8.528E-01	7.445E-01	6.549E-01
54	1.549E+00	1.249E+00	1.102E+00	9.533E-01	8.233E-01	7.149E-01	6.262E-01
55	1.537E+00	1.234E+00	1.079E+00	9.262E-01	7.947E-01	6.864E-01	5.987E-01
56	1.524E+00	1.219E+00	1.056E+00	8.997E-01	7.671E-01	6.591E-01	5.724E-01
57	1.510E+00	1.203E+00	1.033E+00	8.737E-01	7.403E-01	6.328E-01	5.473E-01
58	1.495E+00	1.187E+00	1.010E+00	8.482E-01	7.143E-01	6.074E-01	5.231E-01
59	1.479E+00	1.171E+00	9.877E-01	8.231E-01	6.888E-01	5.828E-01	4.999E-01
60	1.462E+00	1.154E+00	9.650E-01	7.983E-01	6.640E-01	5.589E-01	4.775E-01
61	1.444E+00	1.136E+00	9.421E-01	7.737E-01	6.396E-01	5.357E-01	4.558E-01
62	1.425E+00	1.118E+00	9.191E-01	7.493E-01	6.156E-01	5.131E-01	4.349E-01
63	1.405E+00	1.099E+00	8.958E-01	7.251E-01	5.920E-01	4.910E-01	4.146E-01
64	1.383E+00	1.079E+00	8.723E-01	7.009E-01	5.688E-01	4.694E-01	3.949E-01
65	1.361E+00	1.059E+00	8.484E-01	6.767E-01	5.458E-01	4.482E-01	3.757E-01
66	1.337E+00	1.037E+00	8.242E-01	6.525E-01	5.231E-01	4.274E-01	3.571E-01
67	1.312E+00	1.015E+00	7.996E-01	6.284E-01	5.006E-01	4.071E-01	3.389E-01
68	1.287E+00	9.923E-01	7.747E-01	6.042E-01	4.783E-01	3.871E-01	3.212E-01
69	1.260E+00	9.686E-01	7.495E-01	5.800E-01	4.563E-01	3.674E-01	3.039E-01

Table 2 (continued)

Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
70	1.232E+00	9.440E-01	7.239E-01	5.558E-01	4.344E-01	3.481E-01	2.870E-01
71	1.203E+00	9.186E-01	6.979E-01	5.316E-01	4.127E-01	3.291E-01	2.705E-01
72	1.173E+00	8.925E-01	6.717E-01	5.074E-01	3.912E-01	3.104E-01	2.545E-01
73	1.143E+00	8.657E-01	6.452E-01	4.832E-01	3.700E-01	2.921E-01	2.388E-01
74	1.111E+00	8.382E-01	6.184E-01	4.591E-01	3.490E-01	2.741E-01	2.236E-01
75	1.079E+00	8.100E-01	5.914E-01	4.350E-01	3.282E-01	2.565E-01	2.087E-01
76	1.046E+00	7.813E-01	5.642E-01	4.110E-01	3.077E-01	2.392E-01	1.943E-01
77	1.012E+00	7.520E-01	5.369E-01	3.872E-01	2.875E-01	2.224E-01	1.803E-01
78	9.783E-01	7.223E-01	5.096E-01	3.635E-01	2.676E-01	2.059E-01	1.667E-01
79	9.437E-01	6.922E-01	4.823E-01	3.402E-01	2.481E-01	1.899E-01	1.536E-01
80	9.086E-01	6.619E-01	4.550E-01	3.170E-01	2.291E-01	1.743E-01	1.410E-01
81	8.732E-01	6.312E-01	4.279E-01	2.943E-01	2.104E-01	1.593E-01	1.289E-01
82	8.377E-01	6.005E-01	4.010E-01	2.719E-01	1.923E-01	1.447E-01	1.174E-01
83	8.019E-01	5.697E-01	3.743E-01	2.500E-01	1.747E-01	1.308E-01	1.063E-01
84	7.662E-01	5.389E-01	3.480E-01	2.286E-01	1.577E-01	1.174E-01	9.587E-02
85	7.305E-01	5.083E-01	3.221E-01	2.077E-01	1.413E-01	1.046E-01	8.601E-02
86	6.950E-01	4.779E-01	2.968E-01	1.875E-01	1.255E-01	9.252E-02	7.678E-02
87	6.597E-01	4.478E-01	2.720E-01	1.680E-01	1.105E-01	8.111E-02	6.820E-02
88	6.248E-01	4.181E-01	2.479E-01	1.493E-01	9.626E-02	7.045E-02	6.030E-02
89	5.904E-01	3.890E-01	2.245E-01	1.314E-01	8.284E-02	6.055E-02	5.311E-02
90	5.565E-01	3.605E-01	2.020E-01	1.143E-01	7.028E-02	5.145E-02	4.664E-02
91	5.233E-01	3.327E-01	1.804E-01	9.826E-02	5.863E-02	4.320E-02	4.094E-02
92	4.909E-01	3.057E-01	1.598E-01	8.320E-02	4.795E-02	3.583E-02	3.601E-02
93	4.593E-01	2.797E-01	1.402E-01	6.921E-02	3.827E-02	2.937E-02	3.190E-02
94	4.287E-01	2.547E-01	1.218E-01	5.636E-02	2.965E-02	2.385E-02	2.863E-02
95	3.992E-01	2.308E-01	1.047E-01	4.471E-02	2.212E-02	1.932E-02	2.621E-02
96	3.709E-01	2.082E-01	8.885E-02	3.431E-02	1.574E-02	1.579E-02	2.467E-02
97	3.438E-01	1.868E-01	7.440E-02	2.522E-02	1.054E-02	1.330E-02	2.403E-02
98	3.180E-01	1.669E-01	6.140E-02	1.750E-02	6.556E-03	1.188E-02	2.431E-02
99	2.937E-01	1.485E-01	4.993E-02	1.119E-02	3.834E-03	1.155E-02	2.554E-02
100	2.709E-01	1.317E-01	4.005E-02	6.352E-03	2.406E-03	1.235E-02	2.772E-02
101	2.497E-01	1.165E-01	3.182E-02	3.021E-03	2.305E-03	1.428E-02	3.087E-02
102	2.303E-01	1.031E-01	2.532E-02	1.245E-03	3.561E-03	1.738E-02	3.501E-02
103	2.125E-01	9.152E-02	2.058E-02	1.063E-03	6.203E-03	2.166E-02	4.016E-02
104	1.966E-01	8.183E-02	1.766E-02	2.512E-03	1.026E-02	2.714E-02	4.631E-02
105	1.826E-01	7.411E-02	1.662E-02	5.626E-03	1.574E-02	3.384E-02	5.348E-02
106	1.706E-01	6.842E-02	1.750E-02	1.043E-02	2.268E-02	4.176E-02	6.168E-02
107	1.605E-01	6.481E-02	2.033E-02	1.697E-02	3.109E-02	5.092E-02	7.091E-02
108	1.526E-01	6.334E-02	2.515E-02	2.524E-02	4.098E-02	6.132E-02	8.118E-02
109	1.467E-01	6.406E-02	3.200E-02	3.528E-02	5.236E-02	7.296E-02	9.247E-02
110	1.430E-01	6.701E-02	4.090E-02	4.709E-02	6.525E-02	8.586E-02	1.048E-01
111	1.415E-01	7.222E-02	5.187E-02	6.070E-02	7.964E-02	1.000E-01	1.182E-01
112	1.423E-01	7.973E-02	6.492E-02	7.610E-02	9.553E-02	1.154E-01	1.326E-01
113	1.452E-01	8.956E-02	8.008E-02	9.329E-02	1.129E-01	1.320E-01	1.480E-01
114	1.505E-01	1.017E-01	9.734E-02	1.123E-01	1.318E-01	1.499E-01	1.644E-01
115	1.580E-01	1.162E-01	1.167E-01	1.331E-01	1.522E-01	1.690E-01	1.818E-01
116	1.678E-01	1.331E-01	1.382E-01	1.556E-01	1.741E-01	1.893E-01	2.002E-01
117	1.799E-01	1.524E-01	1.617E-01	1.800E-01	1.974E-01	2.107E-01	2.195E-01
118	1.943E-01	1.740E-01	1.874E-01	2.061E-01	2.221E-01	2.334E-01	2.398E-01
119	2.110E-01	1.979E-01	2.151E-01	2.339E-01	2.483E-01	2.572E-01	2.611E-01
120	2.300E-01	2.242E-01	2.449E-01	2.634E-01	2.758E-01	2.821E-01	2.832E-01
121	2.512E-01	2.528E-01	2.766E-01	2.946E-01	3.048E-01	3.081E-01	3.062E-01
122	2.746E-01	2.836E-01	3.103E-01	3.274E-01	3.350E-01	3.352E-01	3.301E-01
123	3.002E-01	3.167E-01	3.460E-01	3.618E-01	3.665E-01	3.633E-01	3.548E-01
124	3.279E-01	3.520E-01	3.835E-01	3.978E-01	3.993E-01	3.925E-01	3.803E-01
125	3.577E-01	3.894E-01	4.229E-01	4.352E-01	4.333E-01	4.226E-01	4.066E-01
126	3.896E-01	4.290E-01	4.641E-01	4.741E-01	4.685E-01	4.536E-01	4.336E-01
127	4.235E-01	4.706E-01	5.070E-01	5.145E-01	5.048E-01	4.855E-01	4.613E-01
128	4.594E-01	5.141E-01	5.515E-01	5.562E-01	5.421E-01	5.183E-01	4.897E-01
129	4.971E-01	5.596E-01	5.977E-01	5.991E-01	5.805E-01	5.518E-01	5.187E-01
130	5.366E-01	6.068E-01	6.454E-01	6.433E-01	6.198E-01	5.861E-01	5.482E-01
131	5.779E-01	6.559E-01	6.945E-01	6.886E-01	6.601E-01	6.211E-01	5.783E-01
132	6.208E-01	7.066E-01	7.450E-01	7.350E-01	7.012E-01	6.567E-01	6.090E-01

(continued on next page)

Table 2 (continued)

Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
133	6.652E-01	7.589E-01	7.967E-01	7.825E-01	7.430E-01	6.930E-01	6.400E-01
134	7.112E-01	8.126E-01	8.497E-01	8.308E-01	7.856E-01	7.298E-01	6.715E-01
135	7.585E-01	8.677E-01	9.038E-01	8.800E-01	8.288E-01	7.670E-01	7.033E-01
136	8.071E-01	9.242E-01	9.589E-01	9.300E-01	8.726E-01	8.048E-01	7.355E-01
137	8.570E-01	9.818E-01	1.015E+00	9.807E-01	9.169E-01	8.428E-01	7.679E-01
138	9.079E-01	1.040E+00	1.072E+00	1.032E+00	9.616E-01	8.812E-01	8.006E-01
139	9.598E-01	1.100E+00	1.129E+00	1.084E+00	1.007E+00	9.198E-01	8.334E-01
140	1.013E+00	1.161E+00	1.187E+00	1.136E+00	1.052E+00	9.587E-01	8.663E-01
141	1.066E+00	1.222E+00	1.246E+00	1.188E+00	1.098E+00	9.976E-01	8.993E-01
142	1.120E+00	1.283E+00	1.305E+00	1.241E+00	1.143E+00	1.037E+00	9.323E-01
143	1.175E+00	1.346E+00	1.364E+00	1.294E+00	1.189E+00	1.076E+00	9.653E-01
144	1.230E+00	1.408E+00	1.424E+00	1.347E+00	1.235E+00	1.115E+00	9.982E-01
145	1.286E+00	1.471E+00	1.483E+00	1.400E+00	1.281E+00	1.153E+00	1.031E+00
146	1.341E+00	1.534E+00	1.543E+00	1.453E+00	1.326E+00	1.192E+00	1.063E+00
147	1.397E+00	1.597E+00	1.602E+00	1.506E+00	1.372E+00	1.230E+00	1.096E+00
148	1.453E+00	1.660E+00	1.661E+00	1.558E+00	1.416E+00	1.269E+00	1.128E+00
149	1.508E+00	1.722E+00	1.720E+00	1.610E+00	1.461E+00	1.306E+00	1.159E+00
150	1.563E+00	1.784E+00	1.778E+00	1.661E+00	1.505E+00	1.343E+00	1.191E+00
151	1.618E+00	1.846E+00	1.836E+00	1.712E+00	1.548E+00	1.380E+00	1.221E+00
152	1.672E+00	1.907E+00	1.893E+00	1.762E+00	1.591E+00	1.416E+00	1.252E+00
153	1.726E+00	1.967E+00	1.949E+00	1.811E+00	1.633E+00	1.452E+00	1.282E+00
154	1.779E+00	2.026E+00	2.004E+00	1.859E+00	1.675E+00	1.487E+00	1.311E+00
155	1.831E+00	2.084E+00	2.058E+00	1.907E+00	1.715E+00	1.521E+00	1.339E+00
156	1.882E+00	2.141E+00	2.111E+00	1.953E+00	1.755E+00	1.554E+00	1.367E+00
157	1.931E+00	2.196E+00	2.162E+00	1.998E+00	1.793E+00	1.586E+00	1.394E+00
158	1.980E+00	2.250E+00	2.213E+00	2.042E+00	1.831E+00	1.618E+00	1.420E+00
159	2.027E+00	2.303E+00	2.261E+00	2.085E+00	1.867E+00	1.648E+00	1.446E+00
160	2.073E+00	2.354E+00	2.308E+00	2.126E+00	1.902E+00	1.678E+00	1.470E+00
161	2.117E+00	2.403E+00	2.354E+00	2.166E+00	1.936E+00	1.706E+00	1.494E+00
162	2.160E+00	2.451E+00	2.398E+00	2.204E+00	1.968E+00	1.733E+00	1.517E+00
163	2.201E+00	2.496E+00	2.440E+00	2.240E+00	1.999E+00	1.759E+00	1.538E+00
164	2.240E+00	2.540E+00	2.480E+00	2.275E+00	2.029E+00	1.784E+00	1.559E+00
165	2.277E+00	2.581E+00	2.518E+00	2.308E+00	2.057E+00	1.807E+00	1.578E+00
166	2.312E+00	2.620E+00	2.554E+00	2.340E+00	2.083E+00	1.830E+00	1.597E+00
167	2.346E+00	2.657E+00	2.587E+00	2.369E+00	2.108E+00	1.850E+00	1.614E+00
168	2.377E+00	2.691E+00	2.619E+00	2.396E+00	2.131E+00	1.870E+00	1.630E+00
169	2.405E+00	2.723E+00	2.648E+00	2.422E+00	2.153E+00	1.888E+00	1.645E+00
170	2.432E+00	2.753E+00	2.675E+00	2.445E+00	2.173E+00	1.904E+00	1.659E+00
171	2.456E+00	2.779E+00	2.700E+00	2.467E+00	2.191E+00	1.920E+00	1.672E+00
172	2.478E+00	2.803E+00	2.722E+00	2.486E+00	2.207E+00	1.933E+00	1.683E+00
173	2.497E+00	2.825E+00	2.741E+00	2.503E+00	2.221E+00	1.945E+00	1.693E+00
174	2.514E+00	2.843E+00	2.758E+00	2.518E+00	2.234E+00	1.956E+00	1.702E+00
175	2.528E+00	2.859E+00	2.773E+00	2.530E+00	2.244E+00	1.964E+00	1.709E+00
176	2.540E+00	2.872E+00	2.785E+00	2.540E+00	2.253E+00	1.972E+00	1.715E+00
177	2.549E+00	2.882E+00	2.794E+00	2.549E+00	2.260E+00	1.977E+00	1.720E+00
178	2.555E+00	2.890E+00	2.801E+00	2.554E+00	2.265E+00	1.982E+00	1.723E+00
179	2.559E+00	2.894E+00	2.805E+00	2.558E+00	2.268E+00	1.984E+00	1.725E+00
180	2.561E+00	2.895E+00	2.806E+00	2.559E+00	2.269E+00	1.985E+00	1.726E+00
Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
0	9.584E+00	1.074E+01	1.118E+01	1.150E+01	1.176E+01	1.226E+01	1.259E+01
1	9.303E+00	1.031E+01	1.064E+01	1.087E+01	1.106E+01	1.140E+01	1.162E+01
2	8.801E+00	9.549E+00	9.709E+00	9.808E+00	9.886E+00	1.001E+01	1.007E+01
3	8.372E+00	8.932E+00	8.978E+00	8.994E+00	9.004E+00	9.002E+00	8.985E+00
4	7.960E+00	8.355E+00	8.308E+00	8.258E+00	8.219E+00	8.130E+00	8.026E+00
5	7.571E+00	7.829E+00	7.708E+00	7.607E+00	7.527E+00	7.359E+00	7.194E+00
6	7.208E+00	7.344E+00	7.163E+00	7.018E+00	6.903E+00	6.664E+00	6.439E+00
7	6.861E+00	6.894E+00	6.660E+00	6.478E+00	6.331E+00	6.026E+00	5.746E+00
8	6.534E+00	6.472E+00	6.193E+00	5.977E+00	5.802E+00	5.437E+00	5.110E+00
9	6.220E+00	6.076E+00	5.756E+00	5.511E+00	5.310E+00	4.892E+00	4.526E+00
10	5.921E+00	5.701E+00	5.346E+00	5.074E+00	4.851E+00	4.389E+00	3.995E+00
11	5.635E+00	5.347E+00	4.961E+00	4.665E+00	4.422E+00	3.927E+00	3.515E+00
12	5.360E+00	5.011E+00	4.597E+00	4.282E+00	4.024E+00	3.505E+00	3.085E+00
13	5.097E+00	4.692E+00	4.255E+00	3.924E+00	3.654E+00	3.122E+00	2.702E+00

Table 2 (continued)

Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
14	4.844E+00	4.390E+00	3.933E+00	3.589E+00	3.313E+00	2.775E+00	2.365E+00
15	4.602E+00	4.103E+00	3.630E+00	3.279E+00	2.999E+00	2.464E+00	2.068E+00
16	4.369E+00	3.831E+00	3.347E+00	2.992E+00	2.710E+00	2.188E+00	1.808E+00
17	4.146E+00	3.572E+00	3.081E+00	2.725E+00	2.447E+00	1.939E+00	1.582E+00
18	3.931E+00	3.328E+00	2.834E+00	2.480E+00	2.208E+00	1.720E+00	1.386E+00
19	3.726E+00	3.098E+00	2.603E+00	2.255E+00	1.991E+00	1.526E+00	1.216E+00
20	3.530E+00	2.881E+00	2.390E+00	2.049E+00	1.794E+00	1.355E+00	1.068E+00
21	3.342E+00	2.677E+00	2.192E+00	1.861E+00	1.618E+00	1.205E+00	9.411E-01
22	3.162E+00	2.486E+00	2.009E+00	1.690E+00	1.458E+00	1.073E+00	8.310E-01
23	2.991E+00	2.306E+00	1.841E+00	1.535E+00	1.316E+00	9.571E-01	7.359E-01
24	2.827E+00	2.138E+00	1.686E+00	1.394E+00	1.188E+00	8.554E-01	6.535E-01
25	2.672E+00	1.982E+00	1.544E+00	1.267E+00	1.073E+00	7.662E-01	5.822E-01
26	2.524E+00	1.836E+00	1.414E+00	1.152E+00	9.708E-01	6.880E-01	5.203E-01
27	2.384E+00	1.700E+00	1.295E+00	1.048E+00	8.795E-01	6.193E-01	4.665E-01
28	2.251E+00	1.574E+00	1.187E+00	9.544E-01	7.980E-01	5.591E-01	4.197E-01
29	2.125E+00	1.457E+00	1.088E+00	8.703E-01	7.254E-01	5.060E-01	3.789E-01
30	2.006E+00	1.349E+00	9.978E-01	7.945E-01	6.606E-01	4.594E-01	3.432E-01
31	1.894E+00	1.248E+00	9.159E-01	7.265E-01	6.029E-01	4.182E-01	3.118E-01
32	1.787E+00	1.156E+00	8.414E-01	6.653E-01	5.514E-01	3.819E-01	2.842E-01
33	1.687E+00	1.071E+00	7.738E-01	6.104E-01	5.054E-01	3.498E-01	2.599E-01
34	1.593E+00	9.920E-01	7.125E-01	5.610E-01	4.644E-01	3.212E-01	2.384E-01
35	1.505E+00	9.195E-01	6.569E-01	5.167E-01	4.278E-01	2.959E-01	2.193E-01
36	1.421E+00	8.529E-01	6.065E-01	4.768E-01	3.950E-01	2.733E-01	2.022E-01
37	1.343E+00	7.916E-01	5.607E-01	4.410E-01	3.656E-01	2.531E-01	1.870E-01
38	1.270E+00	7.353E-01	5.193E-01	4.087E-01	3.393E-01	2.351E-01	1.734E-01
39	1.201E+00	6.836E-01	4.818E-01	3.797E-01	3.157E-01	2.189E-01	1.612E-01
40	1.136E+00	6.361E-01	4.477E-01	3.536E-01	2.944E-01	2.042E-01	1.501E-01
41	1.075E+00	5.926E-01	4.169E-01	3.300E-01	2.752E-01	1.911E-01	1.402E-01
42	1.019E+00	5.526E-01	3.889E-01	3.087E-01	2.579E-01	1.791E-01	1.311E-01
43	9.654E-01	5.159E-01	3.635E-01	2.894E-01	2.423E-01	1.683E-01	1.229E-01
44	9.155E-01	4.822E-01	3.404E-01	2.720E-01	2.281E-01	1.584E-01	1.154E-01
45	8.687E-01	4.513E-01	3.194E-01	2.561E-01	2.153E-01	1.494E-01	1.085E-01
46	8.247E-01	4.229E-01	3.004E-01	2.418E-01	2.036E-01	1.412E-01	1.022E-01
47	7.834E-01	3.968E-01	2.830E-01	2.287E-01	1.929E-01	1.337E-01	9.647E-02
48	7.446E-01	3.729E-01	2.672E-01	2.168E-01	1.831E-01	1.267E-01	9.116E-02
49	7.080E-01	3.509E-01	2.528E-01	2.059E-01	1.742E-01	1.203E-01	8.627E-02
50	6.736E-01	3.306E-01	2.396E-01	1.960E-01	1.660E-01	1.144E-01	8.174E-02
51	6.412E-01	3.120E-01	2.276E-01	1.869E-01	1.585E-01	1.090E-01	7.755E-02
52	6.105E-01	2.948E-01	2.166E-01	1.786E-01	1.515E-01	1.039E-01	7.366E-02
53	5.815E-01	2.790E-01	2.065E-01	1.709E-01	1.451E-01	9.920E-02	7.005E-02
54	5.540E-01	2.644E-01	1.973E-01	1.638E-01	1.391E-01	9.482E-02	6.669E-02
55	5.279E-01	2.509E-01	1.888E-01	1.573E-01	1.336E-01	9.073E-02	6.356E-02
56	5.030E-01	2.384E-01	1.810E-01	1.513E-01	1.285E-01	8.692E-02	6.063E-02
57	4.794E-01	2.269E-01	1.738E-01	1.457E-01	1.237E-01	8.335E-02	5.790E-02
58	4.567E-01	2.162E-01	1.671E-01	1.405E-01	1.193E-01	8.000E-02	5.534E-02
59	4.351E-01	2.063E-01	1.610E-01	1.357E-01	1.152E-01	7.687E-02	5.295E-02
60	4.144E-01	1.971E-01	1.553E-01	1.313E-01	1.113E-01	7.392E-02	5.070E-02
61	3.945E-01	1.886E-01	1.501E-01	1.271E-01	1.076E-01	7.115E-02	4.859E-02
62	3.753E-01	1.806E-01	1.453E-01	1.232E-01	1.042E-01	6.854E-02	4.661E-02
63	3.569E-01	1.733E-01	1.408E-01	1.196E-01	1.010E-01	6.608E-02	4.474E-02
64	3.390E-01	1.664E-01	1.366E-01	1.162E-01	9.802E-02	6.376E-02	4.298E-02
65	3.218E-01	1.601E-01	1.328E-01	1.130E-01	9.518E-02	6.157E-02	4.132E-02
66	3.052E-01	1.541E-01	1.292E-01	1.101E-01	9.251E-02	5.949E-02	3.976E-02
67	2.891E-01	1.486E-01	1.259E-01	1.073E-01	8.999E-02	5.753E-02	3.828E-02
68	2.735E-01	1.435E-01	1.228E-01	1.047E-01	8.761E-02	5.567E-02	3.689E-02
69	2.584E-01	1.388E-01	1.199E-01	1.022E-01	8.535E-02	5.391E-02	3.557E-02
70	2.437E-01	1.344E-01	1.173E-01	9.993E-02	8.323E-02	5.224E-02	3.432E-02
71	2.295E-01	1.303E-01	1.148E-01	9.777E-02	8.121E-02	5.066E-02	3.314E-02
72	2.157E-01	1.265E-01	1.125E-01	9.574E-02	7.930E-02	4.915E-02	3.202E-02
73	2.024E-01	1.230E-01	1.104E-01	9.383E-02	7.750E-02	4.772E-02	3.095E-02
74	1.895E-01	1.198E-01	1.085E-01	9.203E-02	7.578E-02	4.636E-02	2.994E-02
75	1.770E-01	1.169E-01	1.067E-01	9.034E-02	7.415E-02	4.506E-02	2.898E-02
76	1.649E-01	1.142E-01	1.050E-01	8.875E-02	7.261E-02	4.383E-02	2.807E-02

(continued on next page)

Table 2 (*continued*)

Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
77	1.534E-01	1.118E-01	1.035E-01	8.726E-02	7.114E-02	4.266E-02	2.721E-02
78	1.422E-01	1.096E-01	1.021E-01	8.585E-02	6.975E-02	4.154E-02	2.639E-02
79	1.315E-01	1.077E-01	1.009E-01	8.453E-02	6.843E-02	4.047E-02	2.560E-02
80	1.213E-01	1.059E-01	9.972E-02	8.329E-02	6.717E-02	3.945E-02	2.486E-02
81	1.116E-01	1.044E-01	9.868E-02	8.212E-02	6.597E-02	3.848E-02	2.415E-02
82	1.024E-01	1.032E-01	9.775E-02	8.102E-02	6.484E-02	3.755E-02	2.347E-02
83	9.376E-02	1.021E-01	9.692E-02	8.000E-02	6.375E-02	3.666E-02	2.282E-02
84	8.563E-02	1.012E-01	9.619E-02	7.903E-02	6.272E-02	3.581E-02	2.221E-02
85	7.805E-02	1.006E-01	9.555E-02	7.813E-02	6.174E-02	3.500E-02	2.162E-02
86	7.105E-02	1.001E-01	9.500E-02	7.729E-02	6.081E-02	3.423E-02	2.106E-02
87	6.465E-02	9.988E-02	9.453E-02	7.650E-02	5.992E-02	3.348E-02	2.052E-02
88	5.886E-02	9.982E-02	9.415E-02	7.576E-02	5.907E-02	3.277E-02	2.001E-02
89	5.371E-02	9.996E-02	9.385E-02	7.507E-02	5.827E-02	3.209E-02	1.952E-02
90	4.921E-02	1.003E-01	9.362E-02	7.443E-02	5.750E-02	3.144E-02	1.905E-02
91	4.539E-02	1.008E-01	9.346E-02	7.383E-02	5.677E-02	3.081E-02	1.860E-02
92	4.226E-02	1.015E-01	9.338E-02	7.328E-02	5.607E-02	3.021E-02	1.817E-02
93	3.984E-02	1.024E-01	9.336E-02	7.277E-02	5.540E-02	2.964E-02	1.775E-02
94	3.815E-02	1.035E-01	9.341E-02	7.229E-02	5.477E-02	2.908E-02	1.736E-02
95	3.720E-02	1.047E-01	9.352E-02	7.185E-02	5.417E-02	2.855E-02	1.698E-02
96	3.702E-02	1.061E-01	9.369E-02	7.145E-02	5.359E-02	2.804E-02	1.662E-02
97	3.761E-02	1.077E-01	9.391E-02	7.108E-02	5.304E-02	2.756E-02	1.627E-02
98	3.899E-02	1.095E-01	9.420E-02	7.075E-02	5.252E-02	2.709E-02	1.594E-02
99	4.118E-02	1.114E-01	9.453E-02	7.044E-02	5.202E-02	2.664E-02	1.562E-02
100	4.418E-02	1.136E-01	9.492E-02	7.016E-02	5.155E-02	2.620E-02	1.531E-02
101	4.800E-02	1.158E-01	9.535E-02	6.991E-02	5.109E-02	2.579E-02	1.501E-02
102	5.266E-02	1.182E-01	9.583E-02	6.968E-02	5.066E-02	2.539E-02	1.473E-02
103	5.816E-02	1.208E-01	9.636E-02	6.948E-02	5.025E-02	2.500E-02	1.446E-02
104	6.451E-02	1.236E-01	9.693E-02	6.931E-02	4.986E-02	2.463E-02	1.419E-02
105	7.171E-02	1.265E-01	9.754E-02	6.915E-02	4.949E-02	2.427E-02	1.394E-02
106	7.977E-02	1.295E-01	9.819E-02	6.902E-02	4.913E-02	2.393E-02	1.370E-02
107	8.868E-02	1.327E-01	9.887E-02	6.890E-02	4.879E-02	2.360E-02	1.347E-02
108	9.845E-02	1.360E-01	9.959E-02	6.881E-02	4.847E-02	2.328E-02	1.324E-02
109	1.091E-01	1.395E-01	1.003E-01	6.873E-02	4.816E-02	2.297E-02	1.302E-02
110	1.206E-01	1.430E-01	1.011E-01	6.867E-02	4.786E-02	2.267E-02	1.282E-02
111	1.329E-01	1.468E-01	1.019E-01	6.863E-02	4.758E-02	2.239E-02	1.261E-02
112	1.461E-01	1.506E-01	1.028E-01	6.860E-02	4.732E-02	2.211E-02	1.242E-02
113	1.601E-01	1.546E-01	1.037E-01	6.858E-02	4.706E-02	2.185E-02	1.224E-02
114	1.749E-01	1.586E-01	1.046E-01	6.858E-02	4.682E-02	2.159E-02	1.206E-02
115	1.905E-01	1.628E-01	1.055E-01	6.859E-02	4.659E-02	2.135E-02	1.188E-02
116	2.069E-01	1.671E-01	1.064E-01	6.861E-02	4.637E-02	2.111E-02	1.172E-02
117	2.242E-01	1.715E-01	1.074E-01	6.865E-02	4.616E-02	2.088E-02	1.156E-02
118	2.421E-01	1.760E-01	1.083E-01	6.869E-02	4.595E-02	2.066E-02	1.140E-02
119	2.609E-01	1.806E-01	1.093E-01	6.875E-02	4.576E-02	2.045E-02	1.125E-02
120	2.803E-01	1.853E-01	1.103E-01	6.881E-02	4.558E-02	2.024E-02	1.111E-02
121	3.005E-01	1.900E-01	1.114E-01	6.888E-02	4.541E-02	2.004E-02	1.097E-02
122	3.214E-01	1.948E-01	1.124E-01	6.896E-02	4.524E-02	1.985E-02	1.083E-02
123	3.429E-01	1.997E-01	1.134E-01	6.905E-02	4.509E-02	1.967E-02	1.071E-02
124	3.650E-01	2.047E-01	1.145E-01	6.914E-02	4.494E-02	1.949E-02	1.058E-02
125	3.878E-01	2.097E-01	1.156E-01	6.924E-02	4.479E-02	1.931E-02	1.046E-02
126	4.111E-01	2.147E-01	1.166E-01	6.934E-02	4.466E-02	1.915E-02	1.034E-02
127	4.350E-01	2.199E-01	1.177E-01	6.945E-02	4.453E-02	1.899E-02	1.023E-02
128	4.594E-01	2.250E-01	1.188E-01	6.957E-02	4.441E-02	1.883E-02	1.012E-02
129	4.843E-01	2.302E-01	1.199E-01	6.968E-02	4.429E-02	1.868E-02	1.002E-02
130	5.096E-01	2.354E-01	1.209E-01	6.981E-02	4.418E-02	1.854E-02	9.919E-03
131	5.354E-01	2.407E-01	1.220E-01	6.993E-02	4.407E-02	1.840E-02	9.821E-03
132	5.615E-01	2.459E-01	1.231E-01	7.006E-02	4.397E-02	1.826E-02	9.728E-03
133	5.880E-01	2.512E-01	1.242E-01	7.019E-02	4.387E-02	1.814E-02	9.637E-03
134	6.148E-01	2.565E-01	1.253E-01	7.032E-02	4.378E-02	1.801E-02	9.550E-03
135	6.418E-01	2.618E-01	1.263E-01	7.046E-02	4.370E-02	1.789E-02	9.465E-03
136	6.691E-01	2.670E-01	1.274E-01	7.059E-02	4.361E-02	1.777E-02	9.384E-03
137	6.966E-01	2.723E-01	1.285E-01	7.073E-02	4.353E-02	1.766E-02	9.306E-03
138	7.242E-01	2.775E-01	1.295E-01	7.087E-02	4.346E-02	1.755E-02	9.230E-03
139	7.520E-01	2.828E-01	1.305E-01	7.101E-02	4.339E-02	1.745E-02	9.157E-03
140	7.798E-01	2.879E-01	1.316E-01	7.115E-02	4.332E-02	1.735E-02	9.087E-03

Table 2 (continued)

Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
141	8.076E-01	2.931E-01	1.326E-01	7.128E-02	4.326E-02	1.725E-02	9.020E-03
142	8.354E-01	2.982E-01	1.336E-01	7.142E-02	4.320E-02	1.716E-02	8.955E-03
143	8.632E-01	3.032E-01	1.346E-01	7.156E-02	4.314E-02	1.707E-02	8.892E-03
144	8.909E-01	3.083E-01	1.356E-01	7.169E-02	4.308E-02	1.698E-02	8.832E-03
145	9.184E-01	3.132E-01	1.365E-01	7.183E-02	4.303E-02	1.690E-02	8.774E-03
146	9.457E-01	3.181E-01	1.375E-01	7.196E-02	4.298E-02	1.682E-02	8.718E-03
147	9.728E-01	3.229E-01	1.384E-01	7.209E-02	4.293E-02	1.674E-02	8.664E-03
148	9.996E-01	3.276E-01	1.393E-01	7.222E-02	4.289E-02	1.667E-02	8.613E-03
149	1.026E+00	3.322E-01	1.402E-01	7.235E-02	4.285E-02	1.659E-02	8.563E-03
150	1.052E+00	3.368E-01	1.411E-01	7.248E-02	4.281E-02	1.653E-02	8.516E-03
151	1.078E+00	3.413E-01	1.419E-01	7.260E-02	4.277E-02	1.646E-02	8.470E-03
152	1.103E+00	3.456E-01	1.427E-01	7.272E-02	4.274E-02	1.640E-02	8.427E-03
153	1.128E+00	3.499E-01	1.436E-01	7.284E-02	4.270E-02	1.634E-02	8.385E-03
154	1.153E+00	3.540E-01	1.443E-01	7.295E-02	4.267E-02	1.628E-02	8.345E-03
155	1.176E+00	3.581E-01	1.451E-01	7.306E-02	4.264E-02	1.623E-02	8.307E-03
156	1.199E+00	3.620E-01	1.458E-01	7.317E-02	4.261E-02	1.618E-02	8.271E-03
157	1.222E+00	3.658E-01	1.465E-01	7.328E-02	4.259E-02	1.613E-02	8.236E-03
158	1.244E+00	3.695E-01	1.472E-01	7.338E-02	4.256E-02	1.608E-02	8.203E-03
159	1.265E+00	3.730E-01	1.479E-01	7.347E-02	4.254E-02	1.603E-02	8.172E-03
160	1.285E+00	3.764E-01	1.485E-01	7.357E-02	4.252E-02	1.599E-02	8.143E-03
161	1.305E+00	3.797E-01	1.491E-01	7.366E-02	4.249E-02	1.595E-02	8.115E-03
162	1.324E+00	3.828E-01	1.497E-01	7.374E-02	4.248E-02	1.591E-02	8.088E-03
163	1.342E+00	3.858E-01	1.503E-01	7.382E-02	4.246E-02	1.588E-02	8.064E-03
164	1.359E+00	3.886E-01	1.508E-01	7.390E-02	4.244E-02	1.585E-02	8.040E-03
165	1.375E+00	3.913E-01	1.513E-01	7.398E-02	4.242E-02	1.581E-02	8.019E-03
166	1.391E+00	3.938E-01	1.517E-01	7.404E-02	4.241E-02	1.578E-02	7.998E-03
167	1.405E+00	3.961E-01	1.522E-01	7.411E-02	4.240E-02	1.576E-02	7.980E-03
168	1.419E+00	3.983E-01	1.526E-01	7.417E-02	4.238E-02	1.573E-02	7.962E-03
169	1.431E+00	4.003E-01	1.529E-01	7.422E-02	4.237E-02	1.571E-02	7.946E-03
170	1.442E+00	4.022E-01	1.533E-01	7.427E-02	4.236E-02	1.569E-02	7.932E-03
171	1.453E+00	4.039E-01	1.536E-01	7.432E-02	4.236E-02	1.567E-02	7.919E-03
172	1.462E+00	4.054E-01	1.538E-01	7.436E-02	4.235E-02	1.565E-02	7.907E-03
173	1.470E+00	4.067E-01	1.541E-01	7.440E-02	4.234E-02	1.564E-02	7.897E-03
174	1.478E+00	4.079E-01	1.543E-01	7.443E-02	4.234E-02	1.563E-02	7.888E-03
175	1.484E+00	4.089E-01	1.545E-01	7.446E-02	4.233E-02	1.562E-02	7.880E-03
176	1.489E+00	4.097E-01	1.546E-01	7.448E-02	4.233E-02	1.561E-02	7.874E-03
177	1.493E+00	4.103E-01	1.547E-01	7.450E-02	4.232E-02	1.560E-02	7.869E-03
178	1.495E+00	4.108E-01	1.548E-01	7.451E-02	4.232E-02	1.560E-02	7.866E-03
179	1.497E+00	4.110E-01	1.549E-01	7.452E-02	4.232E-02	1.559E-02	7.864E-03
180	1.498E+00	4.111E-01	1.549E-01	7.452E-02	4.232E-02	1.559E-02	7.863E-03

Table 3

Differential cross sections for elastic electron scattering from argon. See page 17 for Explanation of Tables

Angle	1 eV	2.5 eV	5 eV	7.5 eV	10 eV	15 eV	20 eV
0	1.514E+00	8.848E-01	7.554E+00	2.144E+01	4.214E+01	5.641E+01	4.802E+01
1	1.460E+00	8.301E-01	7.348E+00	2.109E+01	4.167E+01	5.609E+01	4.767E+01
2	1.361E+00	7.342E-01	6.972E+00	2.045E+01	4.079E+01	5.549E+01	4.704E+01
3	1.274E+00	6.546E-01	6.641E+00	1.987E+01	3.999E+01	5.491E+01	4.646E+01
4	1.188E+00	5.813E-01	6.316E+00	1.929E+01	3.916E+01	5.429E+01	4.587E+01
5	1.107E+00	5.160E-01	6.005E+00	1.873E+01	3.833E+01	5.365E+01	4.528E+01
6	1.031E+00	4.593E-01	5.711E+00	1.818E+01	3.750E+01	5.299E+01	4.469E+01
7	9.566E-01	4.091E-01	5.428E+00	1.763E+01	3.666E+01	5.229E+01	4.408E+01
8	8.875E-01	3.663E-01	5.158E+00	1.710E+01	3.582E+01	5.156E+01	4.346E+01
9	8.211E-01	3.303E-01	4.902E+00	1.658E+01	3.498E+01	5.079E+01	4.282E+01
10	7.586E-01	3.009E-01	4.659E+00	1.606E+01	3.413E+01	4.999E+01	4.215E+01
11	6.994E-01	2.777E-01	4.428E+00	1.556E+01	3.327E+01	4.916E+01	4.147E+01
12	6.431E-01	2.604E-01	4.210E+00	1.507E+01	3.241E+01	4.829E+01	4.077E+01
13	5.903E-01	2.488E-01	4.003E+00	1.458E+01	3.155E+01	4.738E+01	4.004E+01
14	5.403E-01	2.427E-01	3.809E+00	1.411E+01	3.068E+01	4.644E+01	3.928E+01
15	4.933E-01	2.417E-01	3.627E+00	1.365E+01	2.981E+01	4.547E+01	3.850E+01
16	4.492E-01	2.457E-01	3.457E+00	1.319E+01	2.894E+01	4.447E+01	3.770E+01
17	4.076E-01	2.545E-01	3.298E+00	1.275E+01	2.807E+01	4.343E+01	3.687E+01
18	3.688E-01	2.676E-01	3.152E+00	1.232E+01	2.720E+01	4.237E+01	3.602E+01
19	3.324E-01	2.851E-01	3.016E+00	1.190E+01	2.633E+01	4.128E+01	3.515E+01
20	2.985E-01	3.065E-01	2.892E+00	1.149E+01	2.546E+01	4.017E+01	3.426E+01
21	2.669E-01	3.318E-01	2.779E+00	1.109E+01	2.460E+01	3.903E+01	3.334E+01
22	2.376E-01	3.605E-01	2.678E+00	1.071E+01	2.374E+01	3.788E+01	3.241E+01
23	2.104E-01	3.927E-01	2.587E+00	1.033E+01	2.289E+01	3.671E+01	3.147E+01
24	1.853E-01	4.279E-01	2.507E+00	9.971E+00	2.205E+01	3.552E+01	3.050E+01
25	1.623E-01	4.661E-01	2.438E+00	9.623E+00	2.122E+01	3.432E+01	2.953E+01
26	1.411E-01	5.070E-01	2.379E+00	9.289E+00	2.040E+01	3.311E+01	2.854E+01
27	1.217E-01	5.505E-01	2.331E+00	8.968E+00	1.959E+01	3.189E+01	2.755E+01
28	1.041E-01	5.962E-01	2.292E+00	8.661E+00	1.879E+01	3.067E+01	2.655E+01
29	8.818E-02	6.440E-01	2.264E+00	8.368E+00	1.801E+01	2.945E+01	2.554E+01
30	7.384E-02	6.937E-01	2.245E+00	8.089E+00	1.725E+01	2.823E+01	2.453E+01
31	6.102E-02	7.452E-01	2.236E+00	7.824E+00	1.650E+01	2.702E+01	2.352E+01
32	4.964E-02	7.981E-01	2.236E+00	7.575E+00	1.578E+01	2.581E+01	2.251E+01
33	3.964E-02	8.524E-01	2.245E+00	7.339E+00	1.507E+01	2.461E+01	2.151E+01
34	3.093E-02	9.078E-01	2.262E+00	7.119E+00	1.438E+01	2.343E+01	2.051E+01
35	2.346E-02	9.641E-01	2.288E+00	6.913E+00	1.372E+01	2.225E+01	1.951E+01
36	1.716E-02	1.021E+00	2.322E+00	6.722E+00	1.308E+01	2.110E+01	1.853E+01
37	1.195E-02	1.079E+00	2.363E+00	6.545E+00	1.246E+01	1.996E+01	1.756E+01
38	7.783E-03	1.137E+00	2.411E+00	6.382E+00	1.186E+01	1.885E+01	1.661E+01
39	4.584E-03	1.195E+00	2.467E+00	6.234E+00	1.129E+01	1.776E+01	1.567E+01
40	2.296E-03	1.254E+00	2.528E+00	6.100E+00	1.075E+01	1.670E+01	1.475E+01
41	8.577E-04	1.312E+00	2.596E+00	5.980E+00	1.023E+01	1.566E+01	1.384E+01
42	2.116E-04	1.370E+00	2.669E+00	5.873E+00	9.736E+00	1.466E+01	1.296E+01
43	3.006E-04	1.427E+00	2.747E+00	5.778E+00	9.268E+00	1.368E+01	1.210E+01
44	1.069E-03	1.484E+00	2.830E+00	5.697E+00	8.826E+00	1.274E+01	1.126E+01
45	2.464E-03	1.540E+00	2.917E+00	5.627E+00	8.409E+00	1.183E+01	1.045E+01
46	4.432E-03	1.595E+00	3.008E+00	5.569E+00	8.019E+00	1.095E+01	9.669E+00
47	6.923E-03	1.649E+00	3.102E+00	5.522E+00	7.654E+00	1.012E+01	8.913E+00
48	9.887E-03	1.702E+00	3.198E+00	5.485E+00	7.313E+00	9.315E+00	8.186E+00
49	1.328E-02	1.753E+00	3.296E+00	5.458E+00	6.998E+00	8.552E+00	7.488E+00
50	1.705E-02	1.803E+00	3.397E+00	5.441E+00	6.707E+00	7.826E+00	6.821E+00
51	2.115E-02	1.852E+00	3.498E+00	5.431E+00	6.439E+00	7.140E+00	6.185E+00
52	2.555E-02	1.898E+00	3.599E+00	5.429E+00	6.194E+00	6.492E+00	5.582E+00
53	3.020E-02	1.943E+00	3.701E+00	5.434E+00	5.971E+00	5.883E+00	5.010E+00
54	3.506E-02	1.986E+00	3.802E+00	5.446E+00	5.769E+00	5.313E+00	4.472E+00
55	4.009E-02	2.026E+00	3.902E+00	5.462E+00	5.588E+00	4.782E+00	3.967E+00
56	4.525E-02	2.064E+00	4.000E+00	5.483E+00	5.426E+00	4.290E+00	3.494E+00
57	5.052E-02	2.101E+00	4.097E+00	5.508E+00	5.282E+00	3.835E+00	3.055E+00
58	5.586E-02	2.134E+00	4.190E+00	5.536E+00	5.155E+00	3.418E+00	2.649E+00
59	6.123E-02	2.165E+00	4.281E+00	5.565E+00	5.045E+00	3.038E+00	2.276E+00
60	6.660E-02	2.194E+00	4.368E+00	5.596E+00	4.949E+00	2.693E+00	1.936E+00
61	7.195E-02	2.220E+00	4.451E+00	5.628E+00	4.867E+00	2.383E+00	1.627E+00
62	7.725E-02	2.243E+00	4.529E+00	5.659E+00	4.798E+00	2.107E+00	1.350E+00

Table 3 (continued)

Angle	1 eV	2.5 eV	5 eV	7.5 eV	10 eV	15 eV	20 eV
63	8.247E-02	2.264E+00	4.603E+00	5.689E+00	4.740E+00	1.864E+00	1.104E+00
64	8.759E-02	2.282E+00	4.671E+00	5.717E+00	4.691E+00	1.653E+00	8.874E-01
65	9.258E-02	2.297E+00	4.733E+00	5.743E+00	4.652E+00	1.471E+00	7.004E-01
66	9.743E-02	2.309E+00	4.790E+00	5.765E+00	4.620E+00	1.318E+00	5.416E-01
67	1.021E-01	2.318E+00	4.840E+00	5.783E+00	4.594E+00	1.192E+00	4.099E-01
68	1.066E-01	2.324E+00	4.883E+00	5.796E+00	4.574E+00	1.092E+00	3.044E-01
69	1.109E-01	2.328E+00	4.919E+00	5.805E+00	4.557E+00	1.016E+00	2.238E-01
70	1.150E-01	2.328E+00	4.948E+00	5.807E+00	4.543E+00	9.617E-01	1.668E-01
71	1.189E-01	2.326E+00	4.970E+00	5.802E+00	4.530E+00	9.286E-01	1.322E-01
72	1.225E-01	2.320E+00	4.983E+00	5.791E+00	4.518E+00	9.145E-01	1.185E-01
73	1.258E-01	2.312E+00	4.989E+00	5.772E+00	4.505E+00	9.176E-01	1.244E-01
74	1.290E-01	2.301E+00	4.987E+00	5.746E+00	4.490E+00	9.363E-01	1.483E-01
75	1.318E-01	2.287E+00	4.977E+00	5.711E+00	4.473E+00	9.688E-01	1.889E-01
76	1.343E-01	2.271E+00	4.959E+00	5.668E+00	4.453E+00	1.013E+00	2.447E-01
77	1.366E-01	2.251E+00	4.932E+00	5.616E+00	4.428E+00	1.068E+00	3.140E-01
78	1.386E-01	2.229E+00	4.898E+00	5.555E+00	4.398E+00	1.132E+00	3.954E-01
79	1.403E-01	2.204E+00	4.855E+00	5.486E+00	4.362E+00	1.203E+00	4.874E-01
80	1.417E-01	2.177E+00	4.804E+00	5.407E+00	4.321E+00	1.279E+00	5.884E-01
81	1.428E-01	2.147E+00	4.745E+00	5.319E+00	4.272E+00	1.360E+00	6.969E-01
82	1.437E-01	2.115E+00	4.679E+00	5.222E+00	4.216E+00	1.442E+00	8.115E-01
83	1.442E-01	2.081E+00	4.605E+00	5.116E+00	4.152E+00	1.526E+00	9.307E-01
84	1.445E-01	2.044E+00	4.523E+00	5.001E+00	4.081E+00	1.610E+00	1.053E+00
85	1.444E-01	2.005E+00	4.434E+00	4.878E+00	4.001E+00	1.692E+00	1.177E+00
86	1.441E-01	1.965E+00	4.339E+00	4.747E+00	3.913E+00	1.771E+00	1.302E+00
87	1.435E-01	1.922E+00	4.236E+00	4.607E+00	3.817E+00	1.846E+00	1.426E+00
88	1.427E-01	1.878E+00	4.128E+00	4.460E+00	3.713E+00	1.917E+00	1.548E+00
89	1.416E-01	1.832E+00	4.014E+00	4.306E+00	3.600E+00	1.982E+00	1.667E+00
90	1.402E-01	1.784E+00	3.894E+00	4.146E+00	3.480E+00	2.040E+00	1.782E+00
91	1.386E-01	1.735E+00	3.769E+00	3.979E+00	3.353E+00	2.091E+00	1.892E+00
92	1.368E-01	1.685E+00	3.640E+00	3.808E+00	3.219E+00	2.135E+00	1.995E+00
93	1.347E-01	1.634E+00	3.506E+00	3.631E+00	3.078E+00	2.170E+00	2.092E+00
94	1.324E-01	1.582E+00	3.369E+00	3.450E+00	2.931E+00	2.196E+00	2.181E+00
95	1.299E-01	1.528E+00	3.228E+00	3.266E+00	2.779E+00	2.213E+00	2.262E+00
96	1.273E-01	1.474E+00	3.085E+00	3.079E+00	2.622E+00	2.221E+00	2.334E+00
97	1.244E-01	1.420E+00	2.940E+00	2.891E+00	2.461E+00	2.221E+00	2.397E+00
98	1.214E-01	1.365E+00	2.793E+00	2.702E+00	2.298E+00	2.211E+00	2.450E+00
99	1.182E-01	1.310E+00	2.645E+00	2.512E+00	2.132E+00	2.192E+00	2.494E+00
100	1.149E-01	1.254E+00	2.497E+00	2.324E+00	1.965E+00	2.164E+00	2.527E+00
101	1.115E-01	1.199E+00	2.349E+00	2.137E+00	1.798E+00	2.128E+00	2.550E+00
102	1.079E-01	1.144E+00	2.202E+00	1.952E+00	1.632E+00	2.084E+00	2.563E+00
103	1.043E-01	1.089E+00	2.056E+00	1.772E+00	1.468E+00	2.033E+00	2.566E+00
104	1.005E-01	1.034E+00	1.912E+00	1.595E+00	1.306E+00	1.975E+00	2.559E+00
105	9.672E-02	9.797E-01	1.770E+00	1.424E+00	1.150E+00	1.911E+00	2.542E+00
106	9.285E-02	9.262E-01	1.631E+00	1.260E+00	9.980E-01	1.843E+00	2.516E+00
107	8.893E-02	8.735E-01	1.497E+00	1.102E+00	8.531E-01	1.769E+00	2.482E+00
108	8.497E-02	8.216E-01	1.366E+00	9.531E-01	7.158E-01	1.693E+00	2.439E+00
109	8.100E-02	7.709E-01	1.240E+00	8.130E-01	5.875E-01	1.614E+00	2.388E+00
110	7.701E-02	7.212E-01	1.119E+00	6.828E-01	4.693E-01	1.534E+00	2.330E+00
111	7.303E-02	6.729E-01	1.004E+00	5.634E-01	3.623E-01	1.454E+00	2.266E+00
112	6.907E-02	6.259E-01	8.952E-01	4.556E-01	2.677E-01	1.375E+00	2.196E+00
113	6.514E-02	5.804E-01	7.933E-01	3.603E-01	1.867E-01	1.298E+00	2.121E+00
114	6.126E-02	5.364E-01	6.986E-01	2.783E-01	1.204E-01	1.224E+00	2.042E+00
115	5.742E-02	4.942E-01	6.116E-01	2.102E-01	6.968E-02	1.154E+00	1.961E+00
116	5.365E-02	4.536E-01	5.327E-01	1.568E-01	3.574E-02	1.091E+00	1.876E+00
117	4.995E-02	4.149E-01	4.623E-01	1.187E-01	1.951E-02	1.034E+00	1.791E+00
118	4.633E-02	3.782E-01	4.006E-01	9.647E-02	2.192E-02	9.851E-01	1.705E+00
119	4.281E-02	3.433E-01	3.482E-01	9.075E-02	4.383E-02	9.456E-01	1.620E+00
120	3.939E-02	3.106E-01	3.052E-01	1.020E-01	8.604E-02	9.165E-01	1.537E+00
121	3.608E-02	2.799E-01	2.720E-01	1.307E-01	1.493E-01	8.989E-01	1.456E+00
122	3.289E-02	2.514E-01	2.487E-01	1.771E-01	2.343E-01	8.938E-01	1.379E+00
123	2.982E-02	2.250E-01	2.355E-01	2.417E-01	3.416E-01	9.024E-01	1.306E+00
124	2.689E-02	2.009E-01	2.327E-01	3.247E-01	4.717E-01	9.256E-01	1.239E+00
125	2.409E-02	1.790E-01	2.403E-01	4.263E-01	6.251E-01	9.643E-01	1.178E+00

(continued on next page)

Table 3 (continued)

Angle	1 eV	2.5 eV	5 eV	7.5 eV	10 eV	15 eV	20 eV
126	2.144E−02	1.594E−01	2.585E−01	5.466E−01	8.021E−01	1.019E+00	1.124E+00
127	1.894E−02	1.420E−01	2.872E−01	6.857E−01	1.003E+00	1.091E+00	1.078E+00
128	1.658E−02	1.269E−01	3.265E−01	8.436E−01	1.228E+00	1.181E+00	1.041E+00
129	1.438E−02	1.141E−01	3.764E−01	1.020E+00	1.477E+00	1.290E+00	1.013E+00
130	1.234E−02	1.035E−01	4.368E−01	1.215E+00	1.750E+00	1.417E+00	9.959E−01
131	1.046E−02	9.525E−02	5.076E−01	1.429E+00	2.046E+00	1.563E+00	9.891E−01
132	8.739E−03	8.917E−02	5.887E−01	1.660E+00	2.367E+00	1.730E+00	9.937E−01
133	7.179E−03	8.528E−02	6.798E−01	1.910E+00	2.711E+00	1.916E+00	1.010E+00
134	5.781E−03	8.355E−02	7.809E−01	2.177E+00	3.078E+00	2.122E+00	1.038E+00
135	4.544E−03	8.392E−02	8.915E−01	2.460E+00	3.467E+00	2.348E+00	1.079E+00
136	3.467E−03	8.636E−02	1.012E+00	2.760E+00	3.878E+00	2.595E+00	1.133E+00
137	2.547E−03	9.079E−02	1.141E+00	3.075E+00	4.311E+00	2.861E+00	1.200E+00
138	1.784E−03	9.716E−02	1.278E+00	3.406E+00	4.763E+00	3.146E+00	1.280E+00
139	1.172E−03	1.054E−01	1.424E+00	3.751E+00	5.235E+00	3.451E+00	1.372E+00
140	7.106E−04	1.154E−01	1.578E+00	4.109E+00	5.726E+00	3.774E+00	1.478E+00
141	3.940E−04	1.272E−01	1.739E+00	4.480E+00	6.233E+00	4.116E+00	1.597E+00
142	2.180E−04	1.406E−01	1.908E+00	4.863E+00	6.758E+00	4.474E+00	1.728E+00
143	1.776E−04	1.555E−01	2.082E+00	5.256E+00	7.297E+00	4.849E+00	1.872E+00
144	2.675E−04	1.719E−01	2.263E+00	5.659E+00	7.849E+00	5.240E+00	2.027E+00
145	4.819E−04	1.896E−01	2.449E+00	6.071E+00	8.414E+00	5.645E+00	2.194E+00
146	8.143E−04	2.085E−01	2.640E+00	6.490E+00	8.990E+00	6.064E+00	2.372E+00
147	1.258E−03	2.287E−01	2.835E+00	6.916E+00	9.576E+00	6.495E+00	2.560E+00
148	1.807E−03	2.498E−01	3.033E+00	7.348E+00	1.017E+01	6.937E+00	2.758E+00
149	2.453E−03	2.719E−01	3.235E+00	7.783E+00	1.077E+01	7.388E+00	2.965E+00
150	3.189E−03	2.948E−01	3.439E+00	8.222E+00	1.137E+01	7.848E+00	3.180E+00
151	4.007E−03	3.184E−01	3.644E+00	8.662E+00	1.198E+01	8.315E+00	3.402E+00
152	4.900E−03	3.425E−01	3.851E+00	9.102E+00	1.259E+01	8.787E+00	3.631E+00
153	5.859E−03	3.672E−01	4.058E+00	9.542E+00	1.319E+01	9.263E+00	3.865E+00
154	6.875E−03	3.922E−01	4.264E+00	9.980E+00	1.380E+01	9.741E+00	4.104E+00
155	7.942E−03	4.175E−01	4.470E+00	1.041E+01	1.440E+01	1.022E+01	4.345E+00
156	9.050E−03	4.428E−01	4.674E+00	1.084E+01	1.499E+01	1.070E+01	4.590E+00
157	1.019E−02	4.682E−01	4.876E+00	1.127E+01	1.558E+01	1.117E+01	4.835E+00
158	1.136E−02	4.935E−01	5.075E+00	1.168E+01	1.616E+01	1.164E+01	5.081E+00
159	1.254E−02	5.186E−01	5.271E+00	1.209E+01	1.673E+01	1.210E+01	5.326E+00
160	1.373E−02	5.433E−01	5.462E+00	1.249E+01	1.728E+01	1.256E+01	5.568E+00
161	1.492E−02	5.676E−01	5.648E+00	1.288E+01	1.782E+01	1.301E+01	5.808E+00
162	1.611E−02	5.913E−01	5.829E+00	1.325E+01	1.834E+01	1.344E+01	6.043E+00
163	1.728E−02	6.145E−01	6.004E+00	1.362E+01	1.885E+01	1.386E+01	6.273E+00
164	1.842E−02	6.368E−01	6.172E+00	1.397E+01	1.933E+01	1.427E+01	6.496E+00
165	1.954E−02	6.583E−01	6.333E+00	1.430E+01	1.980E+01	1.466E+01	6.711E+00
166	2.062E−02	6.789E−01	6.486E+00	1.462E+01	2.024E+01	1.503E+01	6.919E+00
167	2.165E−02	6.985E−01	6.631E+00	1.491E+01	2.065E+01	1.539E+01	7.116E+00
168	2.264E−02	7.170E−01	6.767E+00	1.520E+01	2.105E+01	1.572E+01	7.303E+00
169	2.357E−02	7.343E−01	6.894E+00	1.546E+01	2.141E+01	1.604E+01	7.479E+00
170	2.443E−02	7.503E−01	7.012E+00	1.570E+01	2.175E+01	1.633E+01	7.642E+00
171	2.524E−02	7.650E−01	7.119E+00	1.592E+01	2.206E+01	1.659E+01	7.793E+00
172	2.597E−02	7.783E−01	7.216E+00	1.612E+01	2.234E+01	1.683E+01	7.929E+00
173	2.662E−02	7.902E−01	7.303E+00	1.630E+01	2.259E+01	1.705E+01	8.051E+00
174	2.720E−02	8.007E−01	7.379E+00	1.645E+01	2.280E+01	1.723E+01	8.158E+00
175	2.769E−02	8.096E−01	7.443E+00	1.659E+01	2.299E+01	1.739E+01	8.250E+00
176	2.810E−02	8.169E−01	7.496E+00	1.669E+01	2.314E+01	1.753E+01	8.325E+00
177	2.841E−02	8.226E−01	7.537E+00	1.678E+01	2.326E+01	1.763E+01	8.384E+00
178	2.864E−02	8.267E−01	7.567E+00	1.684E+01	2.335E+01	1.770E+01	8.427E+00
179	2.878E−02	8.292E−01	7.585E+00	1.688E+01	2.340E+01	1.775E+01	8.452E+00
180	2.883E−02	8.300E−01	7.591E+00	1.689E+01	2.341E+01	1.776E+01	8.461E+00
Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
0	3.845E+01	4.222E+01	4.562E+01	4.828E+01	5.028E+01	5.180E+01	5.298E+01
1	3.780E+01	4.117E+01	4.423E+01	4.661E+01	4.837E+01	4.967E+01	5.066E+01
2	3.665E+01	3.930E+01	4.177E+01	4.365E+01	4.500E+01	4.648E+01	4.662E+01
3	3.566E+01	3.771E+01	3.970E+01	4.118E+01	4.219E+01	4.287E+01	4.331E+01
4	3.470E+01	3.619E+01	3.772E+01	3.884E+01	3.956E+01	3.999E+01	4.023E+01
5	3.380E+01	3.476E+01	3.588E+01	3.668E+01	3.714E+01	3.736E+01	3.742E+01

Table 3 (continued)

Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
6	3.294E+01	3.343E+01	3.416E+01	3.467E+01	3.490E+01	3.493E+01	3.484E+01
7	3.212E+01	3.216E+01	3.255E+01	3.278E+01	3.281E+01	3.268E+01	3.246E+01
8	3.132E+01	3.095E+01	3.102E+01	3.101E+01	3.085E+01	3.058E+01	3.024E+01
9	3.055E+01	2.980E+01	2.957E+01	2.934E+01	2.902E+01	2.861E+01	2.817E+01
10	2.980E+01	2.870E+01	2.819E+01	2.776E+01	2.728E+01	2.676E+01	2.623E+01
11	2.907E+01	2.764E+01	2.688E+01	2.626E+01	2.564E+01	2.502E+01	2.441E+01
12	2.834E+01	2.661E+01	2.562E+01	2.483E+01	2.409E+01	2.338E+01	2.269E+01
13	2.763E+01	2.562E+01	2.442E+01	2.347E+01	2.262E+01	2.182E+01	2.107E+01
14	2.693E+01	2.466E+01	2.327E+01	2.218E+01	2.122E+01	2.035E+01	1.955E+01
15	2.623E+01	2.373E+01	2.215E+01	2.094E+01	1.989E+01	1.896E+01	1.811E+01
16	2.553E+01	2.283E+01	2.109E+01	1.976E+01	1.863E+01	1.764E+01	1.676E+01
17	2.484E+01	2.195E+01	2.006E+01	1.862E+01	1.743E+01	1.639E+01	1.548E+01
18	2.415E+01	2.109E+01	1.907E+01	1.754E+01	1.629E+01	1.522E+01	1.428E+01
19	2.346E+01	2.025E+01	1.811E+01	1.651E+01	1.521E+01	1.411E+01	1.316E+01
20	2.277E+01	1.943E+01	1.720E+01	1.552E+01	1.418E+01	1.306E+01	1.211E+01
21	2.209E+01	1.863E+01	1.631E+01	1.459E+01	1.321E+01	1.208E+01	1.112E+01
22	2.140E+01	1.785E+01	1.546E+01	1.369E+01	1.229E+01	1.115E+01	1.020E+01
23	2.072E+01	1.709E+01	1.464E+01	1.284E+01	1.143E+01	1.029E+01	9.343E+00
24	2.003E+01	1.635E+01	1.385E+01	1.202E+01	1.061E+01	9.474E+00	8.546E+00
25	1.935E+01	1.563E+01	1.309E+01	1.125E+01	9.836E+00	8.714E+00	7.806E+00
26	1.867E+01	1.492E+01	1.236E+01	1.051E+01	9.109E+00	8.006E+00	7.120E+00
27	1.799E+01	1.423E+01	1.166E+01	9.817E+00	8.426E+00	7.345E+00	6.486E+00
28	1.731E+01	1.355E+01	1.099E+01	9.154E+00	7.784E+00	6.730E+00	5.901E+00
29	1.663E+01	1.289E+01	1.034E+01	8.526E+00	7.182E+00	6.158E+00	5.361E+00
30	1.596E+01	1.225E+01	9.720E+00	7.931E+00	6.618E+00	5.628E+00	4.865E+00
31	1.529E+01	1.162E+01	9.123E+00	7.367E+00	6.089E+00	5.135E+00	4.408E+00
32	1.463E+01	1.101E+01	8.551E+00	6.833E+00	5.595E+00	4.680E+00	3.989E+00
33	1.397E+01	1.042E+01	8.003E+00	6.328E+00	5.133E+00	4.258E+00	3.606E+00
34	1.332E+01	9.836E+00	7.477E+00	5.851E+00	4.701E+00	3.868E+00	3.255E+00
35	1.268E+01	9.272E+00	6.973E+00	5.400E+00	4.297E+00	3.508E+00	2.934E+00
36	1.204E+01	8.724E+00	6.491E+00	4.974E+00	3.921E+00	3.177E+00	2.641E+00
37	1.141E+01	8.192E+00	6.030E+00	4.572E+00	3.571E+00	2.871E+00	2.373E+00
38	1.079E+01	7.675E+00	5.589E+00	4.193E+00	3.244E+00	2.589E+00	2.130E+00
39	1.018E+01	7.174E+00	5.167E+00	3.836E+00	2.941E+00	2.331E+00	1.909E+00
40	9.586E+00	6.688E+00	4.765E+00	3.499E+00	2.659E+00	2.093E+00	1.708E+00
41	8.999E+00	6.219E+00	4.381E+00	3.183E+00	2.397E+00	1.875E+00	1.526E+00
42	8.426E+00	5.765E+00	4.016E+00	2.886E+00	2.154E+00	1.676E+00	1.361E+00
43	7.866E+00	5.328E+00	3.668E+00	2.607E+00	1.929E+00	1.493E+00	1.212E+00
44	7.320E+00	4.907E+00	3.338E+00	2.346E+00	1.722E+00	1.327E+00	1.078E+00
45	6.790E+00	4.503E+00	3.026E+00	2.103E+00	1.530E+00	1.176E+00	9.576E-01
46	6.275E+00	4.115E+00	2.730E+00	1.875E+00	1.354E+00	1.039E+00	8.500E-01
47	5.777E+00	3.744E+00	2.451E+00	1.663E+00	1.193E+00	9.150E-01	7.542E-01
48	5.297E+00	3.390E+00	2.188E+00	1.467E+00	1.045E+00	8.037E-01	6.693E-01
49	4.835E+00	3.054E+00	1.941E+00	1.286E+00	9.113E-01	7.041E-01	5.947E-01
50	4.392E+00	2.735E+00	1.711E+00	1.119E+00	7.900E-01	6.155E-01	5.296E-01
51	3.968E+00	2.433E+00	1.496E+00	9.659E-01	6.810E-01	5.375E-01	4.734E-01
52	3.565E+00	2.149E+00	1.297E+00	8.266E-01	5.836E-01	4.693E-01	4.254E-01
53	3.182E+00	1.883E+00	1.114E+00	7.007E-01	4.974E-01	4.105E-01	3.853E-01
54	2.820E+00	1.635E+00	9.455E-01	5.877E-01	4.221E-01	3.606E-01	3.524E-01
55	2.480E+00	1.405E+00	7.925E-01	4.872E-01	3.570E-01	3.192E-01	3.263E-01
56	2.162E+00	1.193E+00	6.545E-01	3.991E-01	3.020E-01	2.857E-01	3.065E-01
57	1.865E+00	9.990E-01	5.312E-01	3.228E-01	2.564E-01	2.597E-01	2.927E-01
58	1.591E+00	8.230E-01	4.223E-01	2.581E-01	2.200E-01	2.409E-01	2.844E-01
59	1.340E+00	6.648E-01	3.277E-01	2.046E-01	1.923E-01	2.288E-01	2.813E-01
60	1.111E+00	5.244E-01	2.471E-01	1.620E-01	1.729E-01	2.231E-01	2.830E-01
61	9.037E-01	4.016E-01	1.801E-01	1.298E-01	1.615E-01	2.233E-01	2.891E-01
62	7.192E-01	2.960E-01	1.263E-01	1.077E-01	1.576E-01	2.291E-01	2.993E-01
63	5.568E-01	2.074E-01	8.551E-02	9.527E-02	1.609E-01	2.401E-01	3.132E-01
64	4.162E-01	1.355E-01	5.720E-02	9.208E-02	1.708E-01	2.559E-01	3.304E-01
65	2.969E-01	7.977E-02	4.095E-02	9.767E-02	1.871E-01	2.760E-01	3.507E-01
66	1.987E-01	3.983E-02	3.628E-02	1.116E-01	2.092E-01	3.002E-01	3.736E-01
67	1.209E-01	1.514E-02	4.267E-02	1.333E-01	2.367E-01	3.280E-01	3.989E-01
68	6.298E-02	5.132E-03	5.959E-02	1.624E-01	2.691E-01	3.591E-01	4.261E-01

(continued on next page)

Table 3 (continued)

Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
69	2.423E-02	9.182E-03	8.644E-02	1.983E-01	3.061E-01	3.930E-01	4.550E-01
70	3.919E-03	2.662E-02	1.226E-01	2.404E-01	3.470E-01	4.293E-01	4.853E-01
71	1.232E-03	5.674E-02	1.675E-01	2.883E-01	3.916E-01	4.676E-01	5.165E-01
72	1.530E-02	9.877E-02	2.204E-01	3.412E-01	4.391E-01	5.075E-01	5.484E-01
73	4.519E-02	1.519E-01	2.806E-01	3.988E-01	4.892E-01	5.487E-01	5.807E-01
74	8.991E-02	2.153E-01	3.475E-01	4.602E-01	5.415E-01	5.907E-01	6.130E-01
75	1.484E-01	2.882E-01	4.203E-01	5.250E-01	5.953E-01	6.332E-01	6.450E-01
76	2.197E-01	3.695E-01	4.982E-01	5.926E-01	6.502E-01	6.757E-01	6.765E-01
77	3.026E-01	4.585E-01	5.805E-01	6.623E-01	7.058E-01	7.179E-01	7.071E-01
78	3.959E-01	5.541E-01	6.665E-01	7.335E-01	7.615E-01	7.595E-01	7.366E-01
79	4.986E-01	6.554E-01	7.553E-01	8.056E-01	8.169E-01	8.000E-01	7.647E-01
80	6.093E-01	7.615E-01	8.463E-01	8.781E-01	8.716E-01	8.392E-01	7.911E-01
81	7.270E-01	8.713E-01	9.386E-01	9.503E-01	9.250E-01	8.766E-01	8.157E-01
82	8.504E-01	9.840E-01	1.031E+00	1.022E+00	9.768E-01	9.121E-01	8.382E-01
83	9.783E-01	1.098E+00	1.124E+00	1.092E+00	1.027E+00	9.453E-01	8.584E-01
84	1.109E+00	1.214E+00	1.216E+00	1.160E+00	1.074E+00	9.759E-01	8.761E-01
85	1.243E+00	1.329E+00	1.306E+00	1.225E+00	1.119E+00	1.004E+00	8.912E-01
86	1.377E+00	1.444E+00	1.395E+00	1.288E+00	1.160E+00	1.029E+00	9.035E-01
87	1.511E+00	1.556E+00	1.480E+00	1.348E+00	1.198E+00	1.050E+00	9.130E-01
88	1.644E+00	1.666E+00	1.561E+00	1.403E+00	1.232E+00	1.068E+00	9.194E-01
89	1.775E+00	1.773E+00	1.639E+00	1.454E+00	1.263E+00	1.083E+00	9.228E-01
90	1.902E+00	1.875E+00	1.712E+00	1.501E+00	1.289E+00	1.094E+00	9.231E-01
91	2.024E+00	1.972E+00	1.779E+00	1.543E+00	1.310E+00	1.101E+00	9.202E-01
92	2.142E+00	2.064E+00	1.841E+00	1.580E+00	1.328E+00	1.104E+00	9.142E-01
93	2.253E+00	2.149E+00	1.897E+00	1.611E+00	1.340E+00	1.104E+00	9.050E-01
94	2.358E+00	2.228E+00	1.947E+00	1.636E+00	1.348E+00	1.099E+00	8.928E-01
95	2.455E+00	2.299E+00	1.990E+00	1.656E+00	1.351E+00	1.091E+00	8.775E-01
96	2.544E+00	2.362E+00	2.026E+00	1.670E+00	1.349E+00	1.079E+00	8.593E-01
97	2.623E+00	2.417E+00	2.054E+00	1.677E+00	1.342E+00	1.063E+00	8.383E-01
98	2.694E+00	2.463E+00	2.075E+00	1.679E+00	1.330E+00	1.043E+00	8.146E-01
99	2.754E+00	2.500E+00	2.089E+00	1.675E+00	1.314E+00	1.020E+00	7.883E-01
100	2.804E+00	2.529E+00	2.095E+00	1.664E+00	1.293E+00	9.935E-01	7.596E-01
101	2.844E+00	2.548E+00	2.094E+00	1.648E+00	1.268E+00	9.638E-01	7.287E-01
102	2.873E+00	2.557E+00	2.084E+00	1.625E+00	1.238E+00	9.311E-01	6.959E-01
103	2.891E+00	2.558E+00	2.068E+00	1.598E+00	1.204E+00	8.956E-01	6.613E-01
104	2.899E+00	2.549E+00	2.044E+00	1.564E+00	1.167E+00	8.577E-01	6.252E-01
105	2.896E+00	2.531E+00	2.013E+00	1.526E+00	1.126E+00	8.175E-01	5.878E-01
106	2.882E+00	2.504E+00	1.975E+00	1.483E+00	1.082E+00	7.753E-01	5.494E-01
107	2.857E+00	2.468E+00	1.931E+00	1.435E+00	1.035E+00	7.315E-01	5.104E-01
108	2.822E+00	2.424E+00	1.881E+00	1.383E+00	9.849E-01	6.864E-01	4.708E-01
109	2.778E+00	2.372E+00	1.824E+00	1.327E+00	9.330E-01	6.403E-01	4.312E-01
110	2.723E+00	2.312E+00	1.762E+00	1.268E+00	8.793E-01	5.936E-01	3.917E-01
111	2.660E+00	2.245E+00	1.696E+00	1.206E+00	8.243E-01	5.466E-01	3.528E-01
112	2.588E+00	2.171E+00	1.625E+00	1.141E+00	7.683E-01	4.996E-01	3.146E-01
113	2.509E+00	2.091E+00	1.550E+00	1.075E+00	7.117E-01	4.532E-01	2.775E-01
114	2.422E+00	2.005E+00	1.471E+00	1.007E+00	6.550E-01	4.075E-01	2.419E-01
115	2.328E+00	1.915E+00	1.390E+00	9.376E-01	5.987E-01	3.631E-01	2.079E-01
116	2.228E+00	1.820E+00	1.306E+00	8.681E-01	5.431E-01	3.203E-01	1.761E-01
117	2.124E+00	1.721E+00	1.221E+00	7.987E-01	4.888E-01	2.794E-01	1.466E-01
118	2.014E+00	1.620E+00	1.135E+00	7.298E-01	4.362E-01	2.408E-01	1.197E-01
119	1.902E+00	1.516E+00	1.049E+00	6.621E-01	3.857E-01	2.050E-01	9.571E-02
120	1.786E+00	1.411E+00	9.627E-01	5.961E-01	3.377E-01	1.721E-01	7.495E-02
121	1.669E+00	1.304E+00	8.775E-01	5.323E-01	2.928E-01	1.427E-01	5.766E-02
122	1.550E+00	1.198E+00	7.937E-01	4.711E-01	2.512E-01	1.169E-01	4.409E-02
123	1.431E+00	1.093E+00	7.121E-01	4.132E-01	2.134E-01	9.513E-02	3.447E-02
124	1.313E+00	9.890E-01	6.332E-01	3.589E-01	1.799E-01	7.767E-02	2.902E-02
125	1.196E+00	8.871E-01	5.576E-01	3.089E-01	1.509E-01	6.478E-02	2.795E-02
126	1.082E+00	7.881E-01	4.860E-01	2.634E-01	1.267E-01	5.672E-02	3.143E-02
127	9.707E-01	6.925E-01	4.188E-01	2.230E-01	1.078E-01	5.372E-02	3.963E-02
128	8.632E-01	6.011E-01	3.565E-01	1.880E-01	9.438E-02	5.599E-02	5.269E-02
129	7.603E-01	5.145E-01	2.997E-01	1.588E-01	8.672E-02	6.371E-02	7.073E-02
130	6.627E-01	4.332E-01	2.487E-01	1.358E-01	8.506E-02	7.703E-02	9.384E-02
131	5.711E-01	3.578E-01	2.041E-01	1.192E-01	8.961E-02	9.609E-02	1.221E-01
132	4.861E-01	2.888E-01	1.662E-01	1.093E-01	1.005E-01	1.210E-01	1.556E-01

Table 3 (continued)

Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
133	4.083E-01	2.267E-01	1.354E-01	1.063E-01	1.180E-01	1.518E-01	1.943E-01
134	3.382E-01	1.719E-01	1.118E-01	1.105E-01	1.420E-01	1.886E-01	2.382E-01
135	2.763E-01	1.248E-01	9.592E-02	1.219E-01	1.728E-01	2.313E-01	2.873E-01
136	2.231E-01	8.571E-02	8.780E-02	1.407E-01	2.103E-01	2.800E-01	3.416E-01
137	1.788E-01	5.489E-02	8.764E-02	1.670E-01	2.545E-01	3.346E-01	4.009E-01
138	1.438E-01	3.256E-02	9.556E-02	2.007E-01	3.054E-01	3.950E-01	4.652E-01
139	1.184E-01	1.889E-02	1.116E-01	2.419E-01	3.629E-01	4.611E-01	5.344E-01
140	1.026E-01	1.398E-02	1.358E-01	2.905E-01	4.270E-01	5.328E-01	6.082E-01
141	9.661E-02	1.789E-02	1.682E-01	3.463E-01	4.973E-01	6.100E-01	6.866E-01
142	1.005E-01	3.059E-02	2.085E-01	4.093E-01	5.739E-01	6.923E-01	7.693E-01
143	1.141E-01	5.204E-02	2.568E-01	4.793E-01	6.564E-01	7.796E-01	8.562E-01
144	1.375E-01	8.210E-02	3.127E-01	5.560E-01	7.447E-01	8.717E-01	9.468E-01
145	1.704E-01	1.206E-01	3.762E-01	6.392E-01	8.383E-01	9.683E-01	1.041E+00
146	2.127E-01	1.673E-01	4.468E-01	7.285E-01	9.371E-01	1.069E+00	1.139E+00
147	2.640E-01	2.220E-01	5.243E-01	8.236E-01	1.041E+00	1.173E+00	1.239E+00
148	3.241E-01	2.842E-01	6.084E-01	9.241E-01	1.149E+00	1.282E+00	1.343E+00
149	3.924E-01	3.537E-01	6.985E-01	1.030E+00	1.261E+00	1.393E+00	1.449E+00
150	4.687E-01	4.300E-01	7.943E-01	1.140E+00	1.376E+00	1.507E+00	1.556E+00
151	5.523E-01	5.126E-01	8.954E-01	1.254E+00	1.495E+00	1.623E+00	1.666E+00
152	6.427E-01	6.010E-01	1.001E+00	1.372E+00	1.616E+00	1.741E+00	1.776E+00
153	7.394E-01	6.946E-01	1.111E+00	1.493E+00	1.740E+00	1.860E+00	1.888E+00
154	8.416E-01	7.930E-01	1.224E+00	1.616E+00	1.865E+00	1.981E+00	2.000E+00
155	9.488E-01	8.954E-01	1.341E+00	1.742E+00	1.991E+00	2.102E+00	2.113E+00
156	1.060E+00	1.001E+00	1.460E+00	1.869E+00	2.118E+00	2.223E+00	2.225E+00
157	1.175E+00	1.110E+00	1.580E+00	1.996E+00	2.245E+00	2.344E+00	2.336E+00
158	1.293E+00	1.221E+00	1.702E+00	2.124E+00	2.372E+00	2.464E+00	2.446E+00
159	1.412E+00	1.333E+00	1.824E+00	2.252E+00	2.498E+00	2.583E+00	2.555E+00
160	1.533E+00	1.446E+00	1.946E+00	2.378E+00	2.622E+00	2.700E+00	2.662E+00
161	1.654E+00	1.559E+00	2.067E+00	2.503E+00	2.745E+00	2.815E+00	2.767E+00
162	1.775E+00	1.671E+00	2.186E+00	2.626E+00	2.864E+00	2.927E+00	2.869E+00
163	1.894E+00	1.782E+00	2.304E+00	2.746E+00	2.981E+00	3.036E+00	2.968E+00
164	2.012E+00	1.891E+00	2.418E+00	2.863E+00	3.094E+00	3.141E+00	3.063E+00
165	2.127E+00	1.997E+00	2.530E+00	2.976E+00	3.203E+00	3.243E+00	3.155E+00
166	2.238E+00	2.100E+00	2.637E+00	3.084E+00	3.308E+00	3.340E+00	3.242E+00
167	2.346E+00	2.199E+00	2.740E+00	3.188E+00	3.407E+00	3.432E+00	3.326E+00
168	2.448E+00	2.293E+00	2.837E+00	3.286E+00	3.501E+00	3.519E+00	3.404E+00
169	2.545E+00	2.382E+00	2.929E+00	3.378E+00	3.589E+00	3.600E+00	3.477E+00
170	2.636E+00	2.465E+00	3.014E+00	3.463E+00	3.671E+00	3.676E+00	3.545E+00
171	2.720E+00	2.542E+00	3.093E+00	3.542E+00	3.747E+00	3.745E+00	3.607E+00
172	2.796E+00	2.612E+00	3.165E+00	3.614E+00	3.815E+00	3.808E+00	3.664E+00
173	2.865E+00	2.675E+00	3.230E+00	3.678E+00	3.876E+00	3.864E+00	3.714E+00
174	2.926E+00	2.731E+00	3.286E+00	3.734E+00	3.929E+00	3.913E+00	3.758E+00
175	2.977E+00	2.778E+00	3.334E+00	3.782E+00	3.975E+00	3.955E+00	3.795E+00
176	3.020E+00	2.817E+00	3.374E+00	3.822E+00	4.012E+00	3.989E+00	3.826E+00
177	3.054E+00	2.848E+00	3.406E+00	3.853E+00	4.042E+00	4.016E+00	3.850E+00
178	3.078E+00	2.870E+00	3.428E+00	3.875E+00	4.063E+00	4.035E+00	3.867E+00
179	3.093E+00	2.884E+00	3.442E+00	3.888E+00	4.076E+00	4.047E+00	3.878E+00
180	3.098E+00	2.888E+00	3.446E+00	3.893E+00	4.080E+00	4.051E+00	3.881E+00
Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
0	5.394E+01	5.954E+01	6.352E+01	6.676E+01	6.941E+01	7.421E+01	7.740E+01
1	5.144E+01	5.578E+01	5.884E+01	6.132E+01	6.331E+01	6.678E+01	6.895E+01
2	4.712E+01	4.946E+01	5.113E+01	5.250E+01	5.355E+01	5.520E+01	5.599E+01
3	4.360E+01	4.459E+01	4.541E+01	4.613E+01	4.662E+01	4.721E+01	4.725E+01
4	4.034E+01	4.022E+01	4.037E+01	4.057E+01	4.068E+01	4.049E+01	3.988E+01
5	3.738E+01	3.638E+01	3.601E+01	3.580E+01	3.556E+01	3.466E+01	3.347E+01
6	3.467E+01	3.295E+01	3.214E+01	3.159E+01	3.105E+01	2.953E+01	2.788E+01
7	3.218E+01	2.984E+01	2.866E+01	2.781E+01	2.701E+01	2.500E+01	2.301E+01
8	2.987E+01	2.701E+01	2.551E+01	2.440E+01	2.340E+01	2.101E+01	1.883E+01
9	2.772E+01	2.441E+01	2.265E+01	2.133E+01	2.017E+01	1.755E+01	1.530E+01
10	2.570E+01	2.202E+01	2.004E+01	1.857E+01	1.730E+01	1.458E+01	1.238E+01
11	2.382E+01	1.982E+01	1.767E+01	1.610E+01	1.477E+01	1.206E+01	9.994E+00
12	2.205E+01	1.779E+01	1.553E+01	1.391E+01	1.257E+01	9.957E+00	8.067E+00

(continued on next page)

Table 3 (continued)

Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
13	2.038E+01	1.593E+01	1.361E+01	1.197E+01	1.066E+01	8.211E+00	6.527E+00
14	1.882E+01	1.423E+01	1.189E+01	1.028E+01	9.027E+00	6.780E+00	5.304E+00
15	1.735E+01	1.267E+01	1.036E+01	8.810E+00	7.638E+00	5.613E+00	4.338E+00
16	1.597E+01	1.126E+01	9.005E+00	7.543E+00	6.466E+00	4.668E+00	3.575E+00
17	1.468E+01	9.982E+00	7.817E+00	6.458E+00	5.481E+00	3.903E+00	2.973E+00
18	1.347E+01	8.832E+00	6.780E+00	5.533E+00	4.659E+00	3.286E+00	2.497E+00
19	1.234E+01	7.800E+00	5.879E+00	4.749E+00	3.976E+00	2.789E+00	2.118E+00
20	1.128E+01	6.880E+00	5.100E+00	4.087E+00	3.409E+00	2.386E+00	1.814E+00
21	1.030E+01	6.061E+00	4.430E+00	3.530E+00	2.939E+00	2.059E+00	1.568E+00
22	9.395E+00	5.336E+00	3.855E+00	3.063E+00	2.550E+00	1.792E+00	1.368E+00
23	8.553E+00	4.697E+00	3.364E+00	2.671E+00	2.228E+00	1.573E+00	1.203E+00
24	7.776E+00	4.135E+00	2.946E+00	2.344E+00	1.961E+00	1.392E+00	1.065E+00
25	7.058E+00	3.643E+00	2.590E+00	2.069E+00	1.738E+00	1.240E+00	9.494E-01
26	6.399E+00	3.214E+00	2.288E+00	1.839E+00	1.552E+00	1.112E+00	8.506E-01
27	5.793E+00	2.840E+00	2.032E+00	1.645E+00	1.396E+00	1.003E+00	7.656E-01
28	5.238E+00	2.516E+00	1.815E+00	1.482E+00	1.263E+00	9.090E-01	6.919E-01
29	4.730E+00	2.235E+00	1.631E+00	1.344E+00	1.150E+00	8.275E-01	6.275E-01
30	4.267E+00	1.992E+00	1.475E+00	1.226E+00	1.052E+00	7.561E-01	5.707E-01
31	3.845E+00	1.782E+00	1.342E+00	1.125E+00	9.674E-01	6.930E-01	5.205E-01
32	3.461E+00	1.602E+00	1.228E+00	1.037E+00	8.934E-01	6.370E-01	4.758E-01
33	3.112E+00	1.446E+00	1.131E+00	9.612E-01	8.280E-01	5.868E-01	4.360E-01
34	2.795E+00	1.312E+00	1.047E+00	8.944E-01	7.698E-01	5.417E-01	4.002E-01
35	2.508E+00	1.197E+00	9.741E-01	8.353E-01	7.176E-01	5.010E-01	3.681E-01
36	2.249E+00	1.098E+00	9.107E-01	7.826E-01	6.704E-01	4.641E-01	3.392E-01
37	2.015E+00	1.013E+00	8.551E-01	7.352E-01	6.276E-01	4.306E-01	3.131E-01
38	1.804E+00	9.398E-01	8.059E-01	6.923E-01	5.884E-01	4.000E-01	2.896E-01
39	1.614E+00	8.765E-01	7.621E-01	6.532E-01	5.525E-01	3.722E-01	2.682E-01
40	1.443E+00	8.218E-01	7.228E-01	6.173E-01	5.194E-01	3.467E-01	2.489E-01
41	1.289E+00	7.745E-01	6.873E-01	5.842E-01	4.888E-01	3.233E-01	2.314E-01
42	1.152E+00	7.335E-01	6.550E-01	5.536E-01	4.605E-01	3.019E-01	2.154E-01
43	1.030E+00	6.978E-01	6.255E-01	5.251E-01	4.342E-01	2.823E-01	2.010E-01
44	9.207E-01	6.666E-01	5.982E-01	4.986E-01	4.097E-01	2.643E-01	1.878E-01
45	8.241E-01	6.393E-01	5.730E-01	4.738E-01	3.869E-01	2.477E-01	1.758E-01
46	7.387E-01	6.154E-01	5.495E-01	4.505E-01	3.656E-01	2.325E-01	1.648E-01
47	6.638E-01	5.943E-01	5.275E-01	4.287E-01	3.458E-01	2.185E-01	1.548E-01
48	5.984E-01	5.756E-01	5.069E-01	4.081E-01	3.272E-01	2.056E-01	1.456E-01
49	5.418E-01	5.590E-01	4.874E-01	3.888E-01	3.099E-01	1.937E-01	1.373E-01
50	4.933E-01	5.441E-01	4.691E-01	3.706E-01	2.937E-01	1.828E-01	1.296E-01
51	4.524E-01	5.308E-01	4.517E-01	3.534E-01	2.785E-01	1.727E-01	1.225E-01
52	4.183E-01	5.187E-01	4.351E-01	3.371E-01	2.643E-01	1.634E-01	1.161E-01
53	3.906E-01	5.078E-01	4.194E-01	3.218E-01	2.510E-01	1.547E-01	1.101E-01
54	3.688E-01	4.978E-01	4.044E-01	3.072E-01	2.386E-01	1.468E-01	1.047E-01
55	3.525E-01	4.886E-01	3.900E-01	2.935E-01	2.269E-01	1.394E-01	9.963E-02
56	3.412E-01	4.801E-01	3.763E-01	2.805E-01	2.160E-01	1.326E-01	9.498E-02
57	3.346E-01	4.721E-01	3.631E-01	2.682E-01	2.057E-01	1.263E-01	9.069E-02
58	3.323E-01	4.645E-01	3.505E-01	2.565E-01	1.960E-01	1.204E-01	8.672E-02
59	3.338E-01	4.574E-01	3.383E-01	2.453E-01	1.870E-01	1.150E-01	8.304E-02
60	3.390E-01	4.505E-01	3.265E-01	2.348E-01	1.785E-01	1.100E-01	7.963E-02
61	3.474E-01	4.437E-01	3.151E-01	2.248E-01	1.705E-01	1.053E-01	7.647E-02
62	3.587E-01	4.371E-01	3.042E-01	2.152E-01	1.629E-01	1.009E-01	7.353E-02
63	3.726E-01	4.306E-01	2.935E-01	2.062E-01	1.558E-01	9.688E-02	7.081E-02
64	3.889E-01	4.241E-01	2.832E-01	1.975E-01	1.492E-01	9.311E-02	6.827E-02
65	4.071E-01	4.175E-01	2.732E-01	1.893E-01	1.429E-01	8.960E-02	6.590E-02
66	4.271E-01	4.108E-01	2.634E-01	1.815E-01	1.370E-01	8.634E-02	6.370E-02
67	4.485E-01	4.040E-01	2.539E-01	1.740E-01	1.314E-01	8.329E-02	6.164E-02
68	4.710E-01	3.970E-01	2.447E-01	1.668E-01	1.261E-01	8.045E-02	5.972E-02
69	4.944E-01	3.898E-01	2.357E-01	1.600E-01	1.212E-01	7.781E-02	5.793E-02
70	5.184E-01	3.824E-01	2.268E-01	1.535E-01	1.165E-01	7.534E-02	5.625E-02
71	5.427E-01	3.747E-01	2.182E-01	1.473E-01	1.121E-01	7.304E-02	5.469E-02
72	5.670E-01	3.667E-01	2.098E-01	1.414E-01	1.080E-01	7.089E-02	5.322E-02
73	5.911E-01	3.584E-01	2.016E-01	1.358E-01	1.041E-01	6.890E-02	5.185E-02
74	6.148E-01	3.498E-01	1.936E-01	1.304E-01	1.004E-01	6.703E-02	5.056E-02
75	6.378E-01	3.409E-01	1.858E-01	1.253E-01	9.699E-02	6.530E-02	4.936E-02
76	6.599E-01	3.317E-01	1.781E-01	1.204E-01	9.376E-02	6.368E-02	4.823E-02

Table 3 (continued)

Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
77	6.808E-01	3.221E-01	1.706E-01	1.157E-01	9.073E-02	6.218E-02	4.717E-02
78	7.004E-01	3.123E-01	1.634E-01	1.113E-01	8.789E-02	6.079E-02	4.618E-02
79	7.185E-01	3.022E-01	1.563E-01	1.071E-01	8.524E-02	5.949E-02	4.525E-02
80	7.349E-01	2.918E-01	1.494E-01	1.032E-01	8.276E-02	5.829E-02	4.438E-02
81	7.494E-01	2.811E-01	1.427E-01	9.944E-02	8.046E-02	5.718E-02	4.357E-02
82	7.619E-01	2.702E-01	1.362E-01	9.591E-02	7.833E-02	5.615E-02	4.281E-02
83	7.723E-01	2.591E-01	1.299E-01	9.260E-02	7.636E-02	5.521E-02	4.209E-02
84	7.804E-01	2.479E-01	1.239E-01	8.950E-02	7.455E-02	5.434E-02	4.142E-02
85	7.861E-01	2.365E-01	1.181E-01	8.661E-02	7.289E-02	5.355E-02	4.080E-02
86	7.894E-01	2.249E-01	1.125E-01	8.393E-02	7.138E-02	5.283E-02	4.022E-02
87	7.902E-01	2.134E-01	1.072E-01	8.145E-02	7.002E-02	5.217E-02	3.967E-02
88	7.885E-01	2.017E-01	1.021E-01	7.918E-02	6.880E-02	5.158E-02	3.916E-02
89	7.842E-01	1.901E-01	9.736E-02	7.712E-02	6.772E-02	5.105E-02	3.869E-02
90	7.773E-01	1.786E-01	9.285E-02	7.527E-02	6.678E-02	5.057E-02	3.825E-02
91	7.679E-01	1.672E-01	8.865E-02	7.362E-02	6.598E-02	5.016E-02	3.784E-02
92	7.560E-01	1.559E-01	8.474E-02	7.217E-02	6.530E-02	4.979E-02	3.746E-02
93	7.416E-01	1.449E-01	8.115E-02	7.093E-02	6.476E-02	4.948E-02	3.711E-02
94	7.248E-01	1.341E-01	7.788E-02	6.990E-02	6.434E-02	4.922E-02	3.679E-02
95	7.057E-01	1.236E-01	7.495E-02	6.907E-02	6.405E-02	4.900E-02	3.649E-02
96	6.845E-01	1.135E-01	7.236E-02	6.845E-02	6.388E-02	4.883E-02	3.622E-02
97	6.612E-01	1.038E-01	7.012E-02	6.803E-02	6.384E-02	4.870E-02	3.596E-02
98	6.359E-01	9.462E-02	6.825E-02	6.782E-02	6.391E-02	4.861E-02	3.573E-02
99	6.089E-01	8.593E-02	6.675E-02	6.781E-02	6.410E-02	4.857E-02	3.552E-02
100	5.803E-01	7.781E-02	6.564E-02	6.801E-02	6.440E-02	4.856E-02	3.533E-02
101	5.503E-01	7.031E-02	6.491E-02	6.841E-02	6.482E-02	4.859E-02	3.516E-02
102	5.191E-01	6.349E-02	6.457E-02	6.901E-02	6.536E-02	4.866E-02	3.501E-02
103	4.869E-01	5.740E-02	6.464E-02	6.982E-02	6.600E-02	4.876E-02	3.487E-02
104	4.540E-01	5.207E-02	6.511E-02	7.083E-02	6.675E-02	4.889E-02	3.475E-02
105	4.204E-01	4.756E-02	6.600E-02	7.204E-02	6.761E-02	4.906E-02	3.465E-02
106	3.866E-01	4.390E-02	6.730E-02	7.345E-02	6.858E-02	4.926E-02	3.456E-02
107	3.528E-01	4.114E-02	6.903E-02	7.506E-02	6.964E-02	4.948E-02	3.448E-02
108	3.191E-01	3.932E-02	7.118E-02	7.687E-02	7.081E-02	4.974E-02	3.442E-02
109	2.859E-01	3.847E-02	7.375E-02	7.887E-02	7.208E-02	5.002E-02	3.437E-02
110	2.534E-01	3.863E-02	7.675E-02	8.106E-02	7.344E-02	5.033E-02	3.434E-02
111	2.218E-01	3.983E-02	8.017E-02	8.344E-02	7.490E-02	5.066E-02	3.431E-02
112	1.916E-01	4.209E-02	8.402E-02	8.600E-02	7.644E-02	5.102E-02	3.429E-02
113	1.628E-01	4.544E-02	8.830E-02	8.875E-02	7.808E-02	5.140E-02	3.429E-02
114	1.358E-01	4.991E-02	9.300E-02	9.168E-02	7.981E-02	5.180E-02	3.429E-02
115	1.107E-01	5.550E-02	9.811E-02	9.478E-02	8.161E-02	5.222E-02	3.431E-02
116	8.800E-02	6.225E-02	1.036E-01	9.806E-02	8.350E-02	5.266E-02	3.433E-02
117	6.775E-02	7.015E-02	1.096E-01	1.015E-01	8.547E-02	5.311E-02	3.436E-02
118	5.024E-02	7.922E-02	1.159E-01	1.051E-01	8.752E-02	5.359E-02	3.440E-02
119	3.569E-02	8.946E-02	1.227E-01	1.089E-01	8.963E-02	5.408E-02	3.444E-02
120	2.432E-02	1.009E-01	1.298E-01	1.128E-01	9.182E-02	5.458E-02	3.449E-02
121	1.632E-02	1.135E-01	1.373E-01	1.169E-01	9.408E-02	5.510E-02	3.455E-02
122	1.189E-02	1.272E-01	1.452E-01	1.211E-01	9.640E-02	5.564E-02	3.461E-02
123	1.121E-02	1.421E-01	1.534E-01	1.254E-01	9.878E-02	5.618E-02	3.468E-02
124	1.442E-02	1.582E-01	1.620E-01	1.299E-01	1.012E-01	5.674E-02	3.476E-02
125	2.168E-02	1.754E-01	1.709E-01	1.345E-01	1.037E-01	5.731E-02	3.484E-02
126	3.311E-02	1.937E-01	1.802E-01	1.393E-01	1.062E-01	5.789E-02	3.492E-02
127	4.883E-02	2.131E-01	1.898E-01	1.441E-01	1.088E-01	5.847E-02	3.501E-02
128	6.891E-02	2.335E-01	1.996E-01	1.491E-01	1.115E-01	5.906E-02	3.510E-02
129	9.345E-02	2.550E-01	2.098E-01	1.541E-01	1.142E-01	5.967E-02	3.520E-02
130	1.225E-01	2.775E-01	2.202E-01	1.593E-01	1.169E-01	6.027E-02	3.529E-02
131	1.560E-01	3.009E-01	2.309E-01	1.645E-01	1.196E-01	6.088E-02	3.539E-02
132	1.942E-01	3.253E-01	2.418E-01	1.698E-01	1.224E-01	6.150E-02	3.550E-02
133	2.368E-01	3.505E-01	2.529E-01	1.752E-01	1.252E-01	6.212E-02	3.560E-02
134	2.840E-01	3.766E-01	2.642E-01	1.806E-01	1.280E-01	6.274E-02	3.571E-02
135	3.356E-01	4.034E-01	2.757E-01	1.861E-01	1.308E-01	6.336E-02	3.582E-02
136	3.916E-01	4.310E-01	2.874E-01	1.917E-01	1.337E-01	6.398E-02	3.593E-02
137	4.519E-01	4.593E-01	2.992E-01	1.972E-01	1.366E-01	6.460E-02	3.604E-02
138	5.163E-01	4.883E-01	3.111E-01	2.028E-01	1.394E-01	6.522E-02	3.615E-02
139	5.849E-01	5.178E-01	3.232E-01	2.085E-01	1.423E-01	6.584E-02	3.626E-02

(continued on next page)

Table 3 (continued)

Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
140	6.573E-01	5.478E-01	3.353E-01	2.141E-01	1.452E-01	6.645E-02	3.638E-02
141	7.335E-01	5.782E-01	3.475E-01	2.198E-01	1.480E-01	6.706E-02	3.649E-02
142	8.132E-01	6.091E-01	3.597E-01	2.254E-01	1.509E-01	6.767E-02	3.660E-02
143	8.963E-01	6.403E-01	3.720E-01	2.311E-01	1.537E-01	6.827E-02	3.671E-02
144	9.825E-01	6.717E-01	3.842E-01	2.367E-01	1.565E-01	6.887E-02	3.682E-02
145	1.072E+00	7.034E-01	3.965E-01	2.422E-01	1.593E-01	6.946E-02	3.693E-02
146	1.163E+00	7.352E-01	4.087E-01	2.478E-01	1.621E-01	7.004E-02	3.704E-02
147	1.257E+00	7.670E-01	4.208E-01	2.533E-01	1.648E-01	7.061E-02	3.715E-02
148	1.353E+00	7.988E-01	4.328E-01	2.587E-01	1.675E-01	7.117E-02	3.726E-02
149	1.451E+00	8.306E-01	4.448E-01	2.641E-01	1.702E-01	7.173E-02	3.736E-02
150	1.551E+00	8.622E-01	4.566E-01	2.694E-01	1.728E-01	7.227E-02	3.747E-02
151	1.651E+00	8.936E-01	4.682E-01	2.746E-01	1.754E-01	7.281E-02	3.757E-02
152	1.752E+00	9.247E-01	4.797E-01	2.797E-01	1.779E-01	7.333E-02	3.767E-02
153	1.854E+00	9.555E-01	4.910E-01	2.848E-01	1.804E-01	7.384E-02	3.777E-02
154	1.956E+00	9.858E-01	5.021E-01	2.897E-01	1.828E-01	7.433E-02	3.787E-02
155	2.058E+00	1.016E+00	5.130E-01	2.945E-01	1.852E-01	7.482E-02	3.796E-02
156	2.159E+00	1.045E+00	5.236E-01	2.992E-01	1.875E-01	7.528E-02	3.805E-02
157	2.260E+00	1.074E+00	5.339E-01	3.038E-01	1.897E-01	7.574E-02	3.814E-02
158	2.359E+00	1.102E+00	5.440E-01	3.082E-01	1.919E-01	7.618E-02	3.823E-02
159	2.457E+00	1.129E+00	5.537E-01	3.125E-01	1.940E-01	7.660E-02	3.831E-02
160	2.553E+00	1.155E+00	5.631E-01	3.166E-01	1.960E-01	7.701E-02	3.839E-02
161	2.646E+00	1.181E+00	5.722E-01	3.206E-01	1.979E-01	7.740E-02	3.846E-02
162	2.737E+00	1.205E+00	5.809E-01	3.244E-01	1.998E-01	7.777E-02	3.853E-02
163	2.825E+00	1.229E+00	5.893E-01	3.281E-01	2.016E-01	7.812E-02	3.860E-02
164	2.910E+00	1.251E+00	5.972E-01	3.315E-01	2.032E-01	7.846E-02	3.867E-02
165	2.992E+00	1.273E+00	6.048E-01	3.348E-01	2.048E-01	7.878E-02	3.873E-02
166	3.070E+00	1.293E+00	6.119E-01	3.379E-01	2.063E-01	7.908E-02	3.879E-02
167	3.143E+00	1.312E+00	6.186E-01	3.408E-01	2.078E-01	7.936E-02	3.884E-02
168	3.213E+00	1.330E+00	6.248E-01	3.436E-01	2.091E-01	7.962E-02	3.889E-02
169	3.278E+00	1.347E+00	6.306E-01	3.461E-01	2.103E-01	7.986E-02	3.894E-02
170	3.338E+00	1.362E+00	6.360E-01	3.484E-01	2.114E-01	8.008E-02	3.898E-02
171	3.393E+00	1.376E+00	6.408E-01	3.505E-01	2.124E-01	8.029E-02	3.902E-02
172	3.442E+00	1.389E+00	6.452E-01	3.524E-01	2.133E-01	8.047E-02	3.906E-02
173	3.487E+00	1.400E+00	6.490E-01	3.540E-01	2.141E-01	8.063E-02	3.909E-02
174	3.525E+00	1.410E+00	6.524E-01	3.555E-01	2.148E-01	8.077E-02	3.912E-02
175	3.558E+00	1.418E+00	6.552E-01	3.567E-01	2.154E-01	8.088E-02	3.915E-02
176	3.585E+00	1.425E+00	6.576E-01	3.577E-01	2.159E-01	8.098E-02	3.917E-02
177	3.607E+00	1.430E+00	6.594E-01	3.585E-01	2.163E-01	8.106E-02	3.918E-02
178	3.622E+00	1.434E+00	6.607E-01	3.591E-01	2.165E-01	8.111E-02	3.920E-02
179	3.631E+00	1.436E+00	6.615E-01	3.594E-01	2.167E-01	8.114E-02	3.920E-02
180	3.634E+00	1.437E+00	6.617E-01	3.595E-01	2.168E-01	8.115E-02	3.921E-02

Table 4

Differential cross sections for elastic electron scattering from krypton. See page 17 for Explanation of Tables

Angle	1 eV	2.5 eV	5 eV	7.5 eV	10 eV	15 eV	20 eV
0	5.245E+00	4.158E+00	2.160E+01	4.991E+01	7.085E+01	8.317E+01	8.94E+01
1	5.124E+00	3.962E+00	2.108E+01	4.913E+01	6.995E+01	8.19E+01	8.78E+01
2	4.862E+00	3.602E+00	2.012E+01	4.769E+01	6.830E+01	7.97E+01	8.48E+01
3	4.597E+00	3.285E+00	1.927E+01	4.638E+01	6.679E+01	7.77E+01	8.23E+01
4	4.353E+00	2.984E+00	1.843E+01	4.507E+01	6.526E+01	7.57E+01	7.97E+01
5	4.114E+00	2.702E+00	1.761E+01	4.379E+01	6.375E+01	7.37E+01	7.72E+01
6	3.886E+00	2.443E+00	1.684E+01	4.253E+01	6.226E+01	7.18E+01	7.49E+01
7	3.669E+00	2.199E+00	1.608E+01	4.128E+01	6.076E+01	6.99E+01	7.25E+01
8	3.459E+00	1.976E+00	1.536E+01	4.006E+01	5.928E+01	6.81E+01	7.02E+01
9	3.259E+00	1.769E+00	1.466E+01	3.885E+01	5.779E+01	6.63E+01	6.80E+01
10	3.068E+00	1.579E+00	1.399E+01	3.766E+01	5.631E+01	6.45E+01	6.58E+01
11	2.884E+00	1.406E+00	1.335E+01	3.648E+01	5.483E+01	6.27E+01	6.36E+01
12	2.709E+00	1.248E+00	1.273E+01	3.532E+01	5.335E+01	6.09E+01	6.15E+01
13	2.542E+00	1.106E+00	1.214E+01	3.417E+01	5.187E+01	5.91E+01	5.94E+01
14	2.383E+00	9.784E-01	1.157E+01	3.304E+01	5.039E+01	5.74E+01	5.74E+01
15	2.231E+00	8.646E-01	1.102E+01	3.193E+01	4.891E+01	5.56E+01	5.53E+01
16	2.086E+00	7.644E-01	1.050E+01	3.083E+01	4.744E+01	5.39E+01	5.33E+01
17	1.948E+00	6.770E-01	9.999E+00	2.975E+01	4.596E+01	5.21E+01	5.14E+01
18	1.817E+00	6.023E-01	9.524E+00	2.868E+01	4.449E+01	5.04E+01	4.94E+01
19	1.692E+00	5.395E-01	9.072E+00	2.763E+01	4.303E+01	4.87E+01	4.75E+01
20	1.574E+00	4.884E-01	8.644E+00	2.660E+01	4.157E+01	4.70E+01	4.56E+01
21	1.462E+00	4.482E-01	8.239E+00	2.559E+01	4.012E+01	4.53E+01	4.37E+01
22	1.356E+00	4.187E-01	7.857E+00	2.460E+01	3.868E+01	4.37E+01	4.19E+01
23	1.255E+00	3.994E-01	7.497E+00	2.363E+01	3.725E+01	4.20E+01	4.01E+01
24	1.160E+00	3.897E-01	7.160E+00	2.269E+01	3.584E+01	4.04E+01	3.84E+01
25	1.070E+00	3.893E-01	6.846E+00	2.176E+01	3.444E+01	3.87E+01	3.66E+01
26	9.856E-01	3.976E-01	6.554E+00	2.087E+01	3.306E+01	3.72E+01	3.49E+01
27	9.058E-01	4.143E-01	6.285E+00	1.999E+01	3.170E+01	3.56E+01	3.33E+01
28	8.309E-01	4.389E-01	6.037E+00	1.914E+01	3.036E+01	3.40E+01	3.17E+01
29	7.603E-01	4.710E-01	5.811E+00	1.832E+01	2.905E+01	3.25E+01	3.01E+01
30	6.942E-01	5.102E-01	5.606E+00	1.753E+01	2.776E+01	3.10E+01	2.86E+01
31	6.323E-01	5.559E-01	5.423E+00	1.676E+01	2.650E+01	2.96E+01	2.71E+01
32	5.744E-01	6.079E-01	5.260E+00	1.602E+01	2.527E+01	2.81E+01	2.56E+01
33	5.203E-01	6.655E-01	5.118E+00	1.532E+01	2.406E+01	2.67E+01	2.42E+01
34	4.700E-01	7.286E-01	4.996E+00	1.464E+01	2.289E+01	2.54E+01	2.29E+01
35	4.232E-01	7.965E-01	4.893E+00	1.399E+01	2.176E+01	2.40E+01	2.15E+01
36	3.798E-01	8.689E-01	4.809E+00	1.337E+01	2.066E+01	2.28E+01	2.03E+01
37	3.396E-01	9.454E-01	4.744E+00	1.279E+01	1.959E+01	2.15E+01	1.90E+01
38	3.025E-01	1.025E+00	4.697E+00	1.223E+01	1.857E+01	2.03E+01	1.78E+01
39	2.684E-01	1.109E+00	4.667E+00	1.171E+01	1.758E+01	1.91E+01	1.67E+01
40	2.370E-01	1.195E+00	4.653E+00	1.122E+01	1.662E+01	1.80E+01	1.56E+01
41	2.083E-01	1.284E+00	4.655E+00	1.076E+01	1.571E+01	1.69E+01	1.46E+01
42	1.820E-01	1.374E+00	4.672E+00	1.033E+01	1.484E+01	1.58E+01	1.36E+01
43	1.582E-01	1.466E+00	4.704E+00	9.924E+00	1.401E+01	1.48E+01	1.26E+01
44	1.366E-01	1.560E+00	4.749E+00	9.554E+00	1.322E+01	1.39E+01	1.17E+01
45	1.171E-01	1.654E+00	4.806E+00	9.212E+00	1.247E+01	1.29E+01	1.08E+01
46	9.962E-02	1.749E+00	4.875E+00	8.898E+00	1.176E+01	1.21E+01	1.00E+01
47	8.401E-02	1.843E+00	4.955E+00	8.613E+00	1.109E+01	1.12E+01	9.23E+00
48	7.015E-02	1.938E+00	5.044E+00	8.354E+00	1.045E+01	1.04E+01	8.49E+00
49	5.794E-02	2.032E+00	5.142E+00	8.121E+00	9.863E+00	9.66E+00	7.80E+00
50	4.726E-02	2.124E+00	5.248E+00	7.913E+00	9.310E+00	8.94E+00	7.14E+00
51	3.800E-02	2.216E+00	5.360E+00	7.728E+00	8.794E+00	8.27E+00	6.52E+00
52	3.006E-02	2.305E+00	5.478E+00	7.566E+00	8.316E+00	7.63E+00	5.95E+00
53	2.334E-02	2.393E+00	5.601E+00	7.426E+00	7.873E+00	7.04E+00	5.41E+00
54	1.774E-02	2.478E+00	5.727E+00	7.305E+00	7.465E+00	6.48E+00	4.90E+00
55	1.317E-02	2.560E+00	5.855E+00	7.203E+00	7.091E+00	5.96E+00	4.43E+00
56	9.543E-03	2.640E+00	5.985E+00	7.118E+00	6.749E+00	5.48E+00	4.00E+00
57	6.766E-03	2.716E+00	6.115E+00	7.049E+00	6.438E+00	5.03E+00	3.60E+00
58	4.757E-03	2.789E+00	6.245E+00	6.995E+00	6.156E+00	4.61E+00	3.23E+00
59	3.438E-03	2.858E+00	6.373E+00	6.953E+00	5.903E+00	4.23E+00	2.90E+00
60	2.731E-03	2.923E+00	6.498E+00	6.922E+00	5.677E+00	3.88E+00	2.59E+00
61	2.565E-03	2.984E+00	6.619E+00	6.902E+00	5.475E+00	3.56E+00	2.32E+00

(continued on next page)

Table 4 (continued)

Angle	1 eV	2.5 eV	5 eV	7.5 eV	10 eV	15 eV	20 eV
62	2.871E−03	3.040E+00	6.735E+00	6.889E+00	5.296E+00	3.27E+00	2.07E+00
63	3.582E−03	3.092E+00	6.846E+00	6.884E+00	5.140E+00	3.01E+00	1.84E+00
64	4.637E−03	3.139E+00	6.950E+00	6.884E+00	5.003E+00	2.78E+00	1.64E+00
65	5.976E−03	3.181E+00	7.047E+00	6.888E+00	4.885E+00	2.57E+00	1.47E+00
66	7.546E−03	3.218E+00	7.136E+00	6.894E+00	4.783E+00	2.38E+00	1.32E+00
67	9.294E−03	3.249E+00	7.216E+00	6.902E+00	4.696E+00	2.22E+00	1.19E+00
68	1.117E−02	3.275E+00	7.286E+00	6.909E+00	4.623E+00	2.07E+00	1.08E+00
69	1.314E−02	3.296E+00	7.346E+00	6.915E+00	4.561E+00	1.95E+00	9.90E−01
70	1.514E−02	3.312E+00	7.394E+00	6.918E+00	4.509E+00	1.85E+00	9.18E−01
71	1.716E−02	3.322E+00	7.432E+00	6.917E+00	4.465E+00	1.76E+00	8.63E−01
72	1.914E−02	3.326E+00	7.457E+00	6.910E+00	4.428E+00	1.69E+00	8.23E−01
73	2.106E−02	3.325E+00	7.470E+00	6.898E+00	4.396E+00	1.63E+00	7.98E−01
74	2.290E−02	3.318E+00	7.470E+00	6.879E+00	4.369E+00	1.59E+00	7.87E−01
75	2.462E−02	3.305E+00	7.457E+00	6.851E+00	4.344E+00	1.55E+00	7.87E−01
76	2.620E−02	3.287E+00	7.431E+00	6.815E+00	4.320E+00	1.53E+00	7.99E−01
77	2.764E−02	3.264E+00	7.391E+00	6.770E+00	4.295E+00	1.52E+00	8.21E−01
78	2.890E−02	3.235E+00	7.337E+00	6.714E+00	4.270E+00	1.51E+00	8.52E−01
79	2.997E−02	3.201E+00	7.270E+00	6.648E+00	4.243E+00	1.52E+00	8.92E−01
80	3.085E−02	3.162E+00	7.190E+00	6.570E+00	4.212E+00	1.52E+00	9.38E−01
81	3.153E−02	3.118E+00	7.096E+00	6.482E+00	4.177E+00	1.53E+00	9.90E−01
82	3.201E−02	3.069E+00	6.989E+00	6.381E+00	4.137E+00	1.55E+00	1.05E+00
83	3.227E−02	3.016E+00	6.868E+00	6.269E+00	4.091E+00	1.57E+00	1.11E+00
84	3.233E−02	2.958E+00	6.736E+00	6.145E+00	4.039E+00	1.59E+00	1.17E+00
85	3.218E−02	2.895E+00	6.590E+00	6.009E+00	3.980E+00	1.61E+00	1.24E+00
86	3.182E−02	2.829E+00	6.433E+00	5.862E+00	3.914E+00	1.63E+00	1.31E+00
87	3.128E−02	2.758E+00	6.265E+00	5.704E+00	3.841E+00	1.66E+00	1.38E+00
88	3.054E−02	2.684E+00	6.086E+00	5.534E+00	3.760E+00	1.68E+00	1.45E+00
89	2.963E−02	2.607E+00	5.897E+00	5.354E+00	3.671E+00	1.70E+00	1.52E+00
90	2.856E−02	2.527E+00	5.698E+00	5.164E+00	3.574E+00	1.72E+00	1.59E+00
91	2.734E−02	2.443E+00	5.491E+00	4.965E+00	3.470E+00	1.73E+00	1.65E+00
92	2.599E−02	2.357E+00	5.275E+00	4.757E+00	3.358E+00	1.74E+00	1.72E+00
93	2.452E−02	2.269E+00	5.053E+00	4.542E+00	3.239E+00	1.75E+00	1.78E+00
94	2.296E−02	2.179E+00	4.825E+00	4.319E+00	3.114E+00	1.76E+00	1.84E+00
95	2.131E−02	2.088E+00	4.591E+00	4.091E+00	2.982E+00	1.76E+00	1.89E+00
96	1.962E−02	1.995E+00	4.353E+00	3.857E+00	2.845E+00	1.76E+00	1.94E+00
97	1.788E−02	1.900E+00	4.112E+00	3.620E+00	2.703E+00	1.75E+00	1.99E+00
98	1.614E−02	1.806E+00	3.869E+00	3.380E+00	2.556E+00	1.75E+00	2.03E+00
99	1.440E−02	1.710E+00	3.625E+00	3.139E+00	2.406E+00	1.73E+00	2.06E+00
100	1.270E−02	1.615E+00	3.380E+00	2.897E+00	2.254E+00	1.72E+00	2.09E+00
101	1.106E−02	1.520E+00	3.136E+00	2.656E+00	2.100E+00	1.70E+00	2.12E+00
102	9.501E−03	1.426E+00	2.895E+00	2.418E+00	1.945E+00	1.68E+00	2.14E+00
103	8.050E−03	1.332E+00	2.656E+00	2.183E+00	1.791E+00	1.65E+00	2.16E+00
104	6.730E−03	1.240E+00	2.422E+00	1.953E+00	1.638E+00	1.63E+00	2.17E+00
105	5.567E−03	1.149E+00	2.193E+00	1.729E+00	1.489E+00	1.60E+00	2.17E+00
106	4.584E−03	1.060E+00	1.971E+00	1.514E+00	1.343E+00	1.57E+00	2.17E+00
107	3.805E−03	9.728E−01	1.756E+00	1.307E+00	1.202E+00	1.54E+00	2.16E+00
108	3.253E−03	8.883E−01	1.550E+00	1.111E+00	1.068E+00	1.50E+00	2.15E+00
109	2.952E−03	8.064E−01	1.353E+00	9.268E−01	9.411E−01	1.47E+00	2.14E+00
110	2.923E−03	7.276E−01	1.167E+00	7.558E−01	8.232E−01	1.44E+00	2.12E+00
111	3.187E−03	6.519E−01	9.932E−01	5.995E−01	7.153E−01	1.41E+00	2.10E+00
112	3.766E−03	5.797E−01	8.316E−01	4.589E−01	6.188E−01	1.38E+00	2.07E+00
113	4.678E−03	5.112E−01	6.835E−01	3.355E−01	5.347E−01	1.35E+00	2.04E+00
114	5.941E−03	4.467E−01	5.499E−01	2.304E−01	4.644E−01	1.32E+00	2.01E+00
115	7.573E−03	3.863E−01	4.314E−01	1.448E−01	4.089E−01	1.30E+00	1.97E+00
116	9.590E−03	3.303E−01	3.290E−01	7.968E−02	3.695E−01	1.28E+00	1.93E+00
117	1.201E−02	2.789E−01	2.434E−01	3.622E−02	3.471E−01	1.27E+00	1.89E+00
118	1.484E−02	2.321E−01	1.752E−01	1.533E−02	3.429E−01	1.26E+00	1.85E+00
119	1.809E−02	1.902E−01	1.250E−01	1.791E−02	3.577E−01	1.26E+00	1.81E+00
120	2.178E−02	1.534E−01	9.350E−02	4.479E−02	3.926E−01	1.26E+00	1.77E+00
121	2.591E−02	1.216E−01	8.105E−02	9.671E−02	4.483E−01	1.27E+00	1.72E+00
122	3.049E−02	9.510E−02	8.814E−02	1.743E−01	5.256E−01	1.29E+00	1.68E+00
123	3.552E−02	7.389E−02	1.151E−01	2.782E−01	6.254E−01	1.31E+00	1.64E+00
124	4.102E−02	5.806E−02	1.622E−01	4.087E−01	7.480E−01	1.35E+00	1.60E+00

Table 4 (continued)

Angle	1 eV	2.5 eV	5 eV	7.5 eV	10 eV	15 eV	20 eV
125	4.697E-02	4.766E-02	2.298E-01	5.664E-01	8.942E-01	1.39E+00	1.57E+00
126	5.339E-02	4.271E-02	3.179E-01	7.515E-01	1.064E+00	1.44E+00	1.53E+00
127	6.027E-02	4.323E-02	4.265E-01	9.640E-01	1.259E+00	1.50E+00	1.50E+00
128	6.760E-02	4.921E-02	5.558E-01	1.204E+00	1.478E+00	1.57E+00	1.48E+00
129	7.538E-02	6.062E-02	7.056E-01	1.472E+00	1.722E+00	1.65E+00	1.45E+00
130	8.361E-02	7.743E-02	8.758E-01	1.767E+00	1.990E+00	1.74E+00	1.43E+00
131	9.228E-02	9.956E-02	1.066E+00	2.090E+00	2.283E+00	1.84E+00	1.42E+00
132	1.014E-01	1.269E-01	1.276E+00	2.439E+00	2.601E+00	1.95E+00	1.41E+00
133	1.109E-01	1.595E-01	1.506E+00	2.814E+00	2.943E+00	2.08E+00	1.40E+00
134	1.208E-01	1.970E-01	1.755E+00	3.216E+00	3.309E+00	2.21E+00	1.40E+00
135	1.311E-01	2.395E-01	2.022E+00	3.642E+00	3.699E+00	2.35E+00	1.41E+00
136	1.417E-01	2.867E-01	2.307E+00	4.093E+00	4.111E+00	2.51E+00	1.42E+00
137	1.527E-01	3.385E-01	2.609E+00	4.567E+00	4.546E+00	2.67E+00	1.44E+00
138	1.641E-01	3.947E-01	2.928E+00	5.064E+00	5.002E+00	2.85E+00	1.46E+00
139	1.757E-01	4.551E-01	3.262E+00	5.583E+00	5.479E+00	3.03E+00	1.49E+00
140	1.876E-01	5.195E-01	3.612E+00	6.121E+00	5.976E+00	3.23E+00	1.53E+00
141	1.998E-01	5.876E-01	3.975E+00	6.679E+00	6.491E+00	3.43E+00	1.57E+00
142	2.122E-01	6.593E-01	4.351E+00	7.254E+00	7.023E+00	3.64E+00	1.62E+00
143	2.249E-01	7.343E-01	4.740E+00	7.846E+00	7.572E+00	3.86E+00	1.68E+00
144	2.377E-01	8.124E-01	5.139E+00	8.453E+00	8.135E+00	4.09E+00	1.74E+00
145	2.507E-01	8.932E-01	5.548E+00	9.073E+00	8.712E+00	4.33E+00	1.81E+00
146	2.638E-01	9.764E-01	5.966E+00	9.704E+00	9.301E+00	4.57E+00	1.88E+00
147	2.770E-01	1.062E+00	6.391E+00	1.035E+01	9.900E+00	4.82E+00	1.96E+00
148	2.902E-01	1.149E+00	6.822E+00	1.100E+01	1.051E+01	5.07E+00	2.04E+00
149	3.035E-01	1.238E+00	7.258E+00	1.165E+01	1.112E+01	5.33E+00	2.13E+00
150	3.168E-01	1.329E+00	7.698E+00	1.231E+01	1.174E+01	5.60E+00	2.22E+00
151	3.301E-01	1.420E+00	8.141E+00	1.298E+01	1.237E+01	5.86E+00	2.32E+00
152	3.433E-01	1.512E+00	8.584E+00	1.364E+01	1.299E+01	6.13E+00	2.42E+00
153	3.564E-01	1.604E+00	9.027E+00	1.430E+01	1.362E+01	6.40E+00	2.52E+00
154	3.694E-01	1.696E+00	9.469E+00	1.496E+01	1.424E+01	6.67E+00	2.63E+00
155	3.822E-01	1.788E+00	9.908E+00	1.562E+01	1.486E+01	6.94E+00	2.73E+00
156	3.948E-01	1.880E+00	1.034E+01	1.627E+01	1.548E+01	7.21E+00	2.84E+00
157	4.072E-01	1.970E+00	1.077E+01	1.691E+01	1.609E+01	7.48E+00	2.96E+00
158	4.193E-01	2.060E+00	1.119E+01	1.754E+01	1.668E+01	7.74E+00	3.07E+00
159	4.312E-01	2.148E+00	1.161E+01	1.815E+01	1.727E+01	8.00E+00	3.18E+00
160	4.427E-01	2.234E+00	1.201E+01	1.876E+01	1.784E+01	8.26E+00	3.29E+00
161	4.539E-01	2.317E+00	1.240E+01	1.934E+01	1.840E+01	8.51E+00	3.40E+00
162	4.647E-01	2.399E+00	1.279E+01	1.991E+01	1.895E+01	8.75E+00	3.51E+00
163	4.751E-01	2.478E+00	1.315E+01	2.046E+01	1.947E+01	8.98E+00	3.62E+00
164	4.850E-01	2.554E+00	1.351E+01	2.099E+01	1.997E+01	9.21E+00	3.72E+00
165	4.945E-01	2.626E+00	1.385E+01	2.149E+01	2.046E+01	9.43E+00	3.82E+00
166	5.035E-01	2.696E+00	1.417E+01	2.197E+01	2.091E+01	9.64E+00	3.92E+00
167	5.120E-01	2.761E+00	1.447E+01	2.242E+01	2.135E+01	9.83E+00	4.01E+00
168	5.200E-01	2.823E+00	1.476E+01	2.285E+01	2.176E+01	1.00E+01	4.10E+00
169	5.274E-01	2.880E+00	1.503E+01	2.324E+01	2.214E+01	1.02E+01	4.18E+00
170	5.343E-01	2.933E+00	1.527E+01	2.361E+01	2.249E+01	1.04E+01	4.26E+00
171	5.405E-01	2.982E+00	1.550E+01	2.395E+01	2.281E+01	1.05E+01	4.33E+00
172	5.461E-01	3.026E+00	1.570E+01	2.425E+01	2.310E+01	1.06E+01	4.39E+00
173	5.511E-01	3.065E+00	1.588E+01	2.452E+01	2.336E+01	1.08E+01	4.45E+00
174	5.555E-01	3.099E+00	1.604E+01	2.475E+01	2.359E+01	1.09E+01	4.50E+00
175	5.592E-01	3.129E+00	1.617E+01	2.495E+01	2.378E+01	1.09E+01	4.55E+00
176	5.623E-01	3.153E+00	1.629E+01	2.512E+01	2.394E+01	1.10E+01	4.58E+00
177	5.647E-01	3.171E+00	1.637E+01	2.525E+01	2.406E+01	1.11E+01	4.61E+00
178	5.664E-01	3.185E+00	1.643E+01	2.534E+01	2.415E+01	1.11E+01	4.63E+00
179	5.674E-01	3.193E+00	1.647E+01	2.539E+01	2.421E+01	1.11E+01	4.64E+00
180	5.677E-01	3.196E+00	1.648E+01	2.541E+01	2.422E+01	1.12E+01	4.65E+00
Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
0	1.108E+02	1.203E+02	1.237E+02	1.232E+02	1.210E+02	1.184E+02	1.158E+02
1	1.081E+02	1.168E+02	1.196E+02	1.186E+02	1.161E+02	1.131E+02	1.103E+02
2	1.033E+02	1.105E+02	1.122E+02	1.106E+02	1.074E+02	1.040E+02	1.007E+02
3	9.912E+01	1.050E+02	1.060E+02	1.036E+02	1.002E+02	9.642E+01	9.291E+01
4	9.498E+01	9.978E+01	9.998E+01	9.720E+01	9.332E+01	8.936E+01	8.566E+01

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Table 4 (continued)

Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
5	9.100E+01	9.479E+01	9.436E+01	9.118E+01	8.706E+01	8.291E+01	7.908E+01
6	8.721E+01	9.004E+01	8.906E+01	8.554E+01	8.123E+01	7.696E+01	7.304E+01
7	8.353E+01	8.551E+01	8.403E+01	8.024E+01	7.577E+01	7.141E+01	6.745E+01
8	7.996E+01	8.117E+01	7.924E+01	7.522E+01	7.064E+01	6.623E+01	6.225E+01
9	7.651E+01	7.699E+01	7.466E+01	7.045E+01	6.580E+01	6.136E+01	5.739E+01
10	7.315E+01	7.297E+01	7.028E+01	6.592E+01	6.121E+01	5.677E+01	5.282E+01
11	6.989E+01	6.909E+01	6.609E+01	6.159E+01	5.685E+01	5.244E+01	4.853E+01
12	6.671E+01	6.535E+01	6.206E+01	5.746E+01	5.272E+01	4.834E+01	4.449E+01
13	6.361E+01	6.173E+01	5.818E+01	5.351E+01	4.878E+01	4.446E+01	4.068E+01
14	6.060E+01	5.823E+01	5.446E+01	4.974E+01	4.504E+01	4.079E+01	3.710E+01
15	5.766E+01	5.485E+01	5.088E+01	4.612E+01	4.148E+01	3.732E+01	3.372E+01
16	5.480E+01	5.159E+01	4.745E+01	4.268E+01	3.811E+01	3.405E+01	3.056E+01
17	5.202E+01	4.843E+01	4.414E+01	3.939E+01	3.490E+01	3.095E+01	2.759E+01
18	4.932E+01	4.538E+01	4.098E+01	3.626E+01	3.187E+01	2.805E+01	2.481E+01
19	4.668E+01	4.245E+01	3.795E+01	3.328E+01	2.901E+01	2.532E+01	2.223E+01
20	4.414E+01	3.963E+01	3.506E+01	3.046E+01	2.631E+01	2.277E+01	1.983E+01
21	4.166E+01	3.692E+01	3.231E+01	2.779E+01	2.378E+01	2.040E+01	1.761E+01
22	3.927E+01	3.433E+01	2.969E+01	2.527E+01	2.141E+01	1.819E+01	1.556E+01
23	3.696E+01	3.184E+01	2.720E+01	2.290E+01	1.919E+01	1.614E+01	1.368E+01
24	3.472E+01	2.946E+01	2.485E+01	2.067E+01	1.713E+01	1.425E+01	1.195E+01
25	3.257E+01	2.720E+01	2.263E+01	1.858E+01	1.522E+01	1.252E+01	1.039E+01
26	3.050E+01	2.505E+01	2.053E+01	1.664E+01	1.346E+01	1.093E+01	8.968E+00
27	2.852E+01	2.300E+01	1.857E+01	1.483E+01	1.183E+01	9.490E+00	7.688E+00
28	2.661E+01	2.107E+01	1.673E+01	1.316E+01	1.034E+01	8.181E+00	6.540E+00
29	2.479E+01	1.925E+01	1.501E+01	1.162E+01	8.988E+00	7.001E+00	5.517E+00
30	2.305E+01	1.753E+01	1.342E+01	1.020E+01	7.756E+00	5.942E+00	4.612E+00
31	2.139E+01	1.592E+01	1.194E+01	8.899E+00	6.644E+00	4.999E+00	3.816E+00
32	1.981E+01	1.440E+01	1.057E+01	7.718E+00	5.645E+00	4.165E+00	3.123E+00
33	1.831E+01	1.299E+01	9.315E+00	6.648E+00	4.754E+00	3.432E+00	2.524E+00
34	1.690E+01	1.168E+01	8.166E+00	5.683E+00	3.964E+00	2.794E+00	2.012E+00
35	1.555E+01	1.047E+01	7.118E+00	4.820E+00	3.270E+00	2.245E+00	1.581E+00
36	1.429E+01	9.341E+00	6.167E+00	4.051E+00	2.665E+00	1.777E+00	1.223E+00
37	1.310E+01	8.304E+00	5.309E+00	3.372E+00	2.143E+00	1.384E+00	9.316E−01
38	1.198E+01	7.353E+00	4.539E+00	2.777E+00	1.698E+00	1.059E+00	7.007E−01
39	1.094E+01	6.483E+00	3.852E+00	2.260E+00	1.324E+00	7.976E−01	5.242E−01
40	9.957E+00	5.692E+00	3.243E+00	1.817E+00	1.016E+00	5.926E−01	3.960E−01
41	9.045E+00	4.975E+00	2.709E+00	1.441E+00	7.664E−01	4.385E−01	3.107E−01
42	8.196E+00	4.328E+00	2.243E+00	1.128E+00	5.714E−01	3.300E−01	2.631E−01
43	7.410E+00	3.748E+00	1.841E+00	8.718E−01	4.251E−01	2.619E−01	2.481E−01
44	6.682E+00	3.230E+00	1.499E+00	6.679E−01	3.224E−01	2.292E−01	2.612E−01
45	6.011E+00	2.772E+00	1.211E+00	5.113E−01	2.585E−01	2.272E−01	2.980E−01
46	5.394E+00	2.369E+00	9.741E−01	3.971E−01	2.287E−01	2.515E−01	3.544E−01
47	4.829E+00	2.017E+00	7.829E−01	3.208E−01	2.286E−01	2.980E−01	4.266E−01
48	4.312E+00	1.712E+00	6.333E−01	2.781E−01	2.538E−01	3.628E−01	5.112E−01
49	3.842E+00	1.452E+00	5.211E−01	2.647E−01	3.006E−01	4.422E−01	6.048E−01
50	3.415E+00	1.232E+00	4.426E−01	2.767E−01	3.651E−01	5.329E−01	7.047E−01
51	3.030E+00	1.049E+00	3.937E−01	3.104E−01	4.439E−01	6.319E−01	8.080E−01
52	2.684E+00	9.001E−01	3.710E−01	3.622E−01	5.337E−01	7.362E−01	9.124E−01
53	2.374E+00	7.814E−01	3.710E−01	4.288E−01	6.316E−01	8.432E−01	1.016E+00
54	2.098E+00	6.902E−01	3.904E−01	5.070E−01	7.348E−01	9.508E−01	1.116E+00
55	1.854E+00	6.236E−01	4.261E−01	5.942E−01	8.408E−01	1.057E+00	1.212E+00
56	1.640E+00	5.786E−01	4.754E−01	6.876E−01	9.474E−01	1.159E+00	1.301E+00
57	1.453E+00	5.528E−01	5.355E−01	7.847E−01	1.052E+00	1.256E+00	1.383E+00
58	1.292E+00	5.436E−01	6.039E−01	8.835E−01	1.154E+00	1.347E+00	1.457E+00
59	1.154E+00	5.487E−01	6.785E−01	9.820E−01	1.251E+00	1.430E+00	1.521E+00
60	1.038E+00	5.660E−01	7.571E−01	1.078E+00	1.342E+00	1.504E+00	1.575E+00
61	9.413E−01	5.933E−01	8.378E−01	1.171E+00	1.425E+00	1.569E+00	1.619E+00
62	8.631E−01	6.289E−01	9.189E−01	1.259E+00	1.500E+00	1.624E+00	1.653E+00
63	8.014E−01	6.710E−01	9.989E−01	1.340E+00	1.566E+00	1.669E+00	1.675E+00
64	7.547E−01	7.180E−01	1.077E+00	1.414E+00	1.622E+00	1.702E+00	1.687E+00
65	7.215E−01	7.685E−01	1.151E+00	1.481E+00	1.668E+00	1.725E+00	1.689E+00
66	7.005E−01	8.212E−01	1.220E+00	1.539E+00	1.704E+00	1.737E+00	1.680E+00
67	6.904E−01	8.750E−01	1.284E+00	1.587E+00	1.729E+00	1.739E+00	1.661E+00

Table 4 (continued)

Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
68	6.900E-01	9.289E-01	1.342E+00	1.627E+00	1.744E+00	1.730E+00	1.633E+00
69	6.983E-01	9.819E-01	1.393E+00	1.657E+00	1.748E+00	1.711E+00	1.596E+00
70	7.141E-01	1.033E+00	1.438E+00	1.677E+00	1.743E+00	1.683E+00	1.552E+00
71	7.365E-01	1.082E+00	1.474E+00	1.688E+00	1.727E+00	1.647E+00	1.499E+00
72	7.647E-01	1.129E+00	1.504E+00	1.690E+00	1.703E+00	1.602E+00	1.440E+00
73	7.977E-01	1.171E+00	1.526E+00	1.683E+00	1.670E+00	1.550E+00	1.376E+00
74	8.349E-01	1.211E+00	1.540E+00	1.667E+00	1.629E+00	1.491E+00	1.307E+00
75	8.756E-01	1.246E+00	1.547E+00	1.644E+00	1.581E+00	1.426E+00	1.233E+00
76	9.190E-01	1.277E+00	1.547E+00	1.612E+00	1.526E+00	1.357E+00	1.157E+00
77	9.646E-01	1.304E+00	1.540E+00	1.574E+00	1.465E+00	1.284E+00	1.078E+00
78	1.012E+00	1.327E+00	1.526E+00	1.529E+00	1.400E+00	1.207E+00	9.976E-01
79	1.060E+00	1.345E+00	1.506E+00	1.478E+00	1.330E+00	1.128E+00	9.170E-01
80	1.109E+00	1.359E+00	1.480E+00	1.423E+00	1.257E+00	1.048E+00	8.366E-01
81	1.159E+00	1.369E+00	1.449E+00	1.363E+00	1.181E+00	9.666E-01	7.573E-01
82	1.208E+00	1.374E+00	1.414E+00	1.299E+00	1.103E+00	8.857E-01	6.799E-01
83	1.257E+00	1.376E+00	1.374E+00	1.232E+00	1.025E+00	8.056E-01	6.049E-01
84	1.305E+00	1.374E+00	1.330E+00	1.164E+00	9.459E-01	7.271E-01	5.331E-01
85	1.352E+00	1.369E+00	1.283E+00	1.093E+00	8.674E-01	6.508E-01	4.650E-01
86	1.397E+00	1.360E+00	1.234E+00	1.022E+00	7.899E-01	5.774E-01	4.011E-01
87	1.441E+00	1.349E+00	1.182E+00	9.501E-01	7.142E-01	5.074E-01	3.418E-01
88	1.484E+00	1.334E+00	1.129E+00	8.787E-01	6.407E-01	4.413E-01	2.876E-01
89	1.524E+00	1.318E+00	1.074E+00	8.082E-01	5.700E-01	3.794E-01	2.387E-01
90	1.562E+00	1.298E+00	1.019E+00	7.390E-01	5.025E-01	3.222E-01	1.954E-01
91	1.598E+00	1.277E+00	9.635E-01	6.716E-01	4.387E-01	2.700E-01	1.577E-01
92	1.631E+00	1.254E+00	9.081E-01	6.065E-01	3.788E-01	2.229E-01	1.259E-01
93	1.662E+00	1.230E+00	8.533E-01	5.441E-01	3.232E-01	1.811E-01	9.995E-02
94	1.690E+00	1.204E+00	7.993E-01	4.845E-01	2.721E-01	1.447E-01	7.977E-02
95	1.714E+00	1.178E+00	7.465E-01	4.282E-01	2.256E-01	1.138E-01	6.527E-02
96	1.736E+00	1.150E+00	6.952E-01	3.752E-01	1.839E-01	8.820E-02	5.629E-02
97	1.755E+00	1.121E+00	6.455E-01	3.259E-01	1.469E-01	6.791E-02	5.262E-02
98	1.771E+00	1.092E+00	5.977E-01	2.803E-01	1.146E-01	5.275E-02	5.397E-02
99	1.783E+00	1.063E+00	5.520E-01	2.384E-01	8.708E-02	4.253E-02	6.004E-02
100	1.793E+00	1.033E+00	5.084E-01	2.004E-01	6.411E-02	3.700E-02	7.047E-02
101	1.798E+00	1.003E+00	4.671E-01	1.662E-01	4.557E-02	3.587E-02	8.487E-02
102	1.801E+00	9.727E-01	4.281E-01	1.356E-01	3.126E-02	3.882E-02	1.028E-01
103	1.800E+00	9.425E-01	3.914E-01	1.088E-01	2.095E-02	4.549E-02	1.239E-01
104	1.795E+00	9.124E-01	3.571E-01	8.544E-02	1.436E-02	5.551E-02	1.475E-01
105	1.787E+00	8.822E-01	3.252E-01	6.545E-02	1.122E-02	6.846E-02	1.734E-01
106	1.776E+00	8.522E-01	2.955E-01	4.865E-02	1.121E-02	8.395E-02	2.009E-01
107	1.762E+00	8.223E-01	2.681E-01	3.482E-02	1.399E-02	1.015E-01	2.295E-01
108	1.743E+00	7.926E-01	2.428E-01	2.376E-02	1.924E-02	1.208E-01	2.589E-01
109	1.722E+00	7.630E-01	2.195E-01	1.523E-02	2.660E-02	1.413E-01	2.886E-01
110	1.698E+00	7.336E-01	1.981E-01	8.986E-03	3.572E-02	1.626E-01	3.180E-01
111	1.670E+00	7.043E-01	1.786E-01	4.782E-03	4.626E-02	1.844E-01	3.467E-01
112	1.639E+00	6.752E-01	1.607E-01	2.368E-03	5.787E-02	2.061E-01	3.744E-01
113	1.605E+00	6.463E-01	1.444E-01	1.499E-03	7.022E-02	2.275E-01	4.007E-01
114	1.569E+00	6.174E-01	1.295E-01	1.933E-03	8.299E-02	2.482E-01	4.251E-01
115	1.530E+00	5.888E-01	1.158E-01	3.437E-03	9.590E-02	2.678E-01	4.474E-01
116	1.488E+00	5.602E-01	1.034E-01	5.791E-03	1.086E-01	2.862E-01	4.673E-01
117	1.444E+00	5.319E-01	9.193E-02	8.788E-03	1.210E-01	3.029E-01	4.846E-01
118	1.397E+00	5.036E-01	8.143E-02	1.224E-02	1.327E-01	3.178E-01	4.990E-01
119	1.349E+00	4.756E-01	7.177E-02	1.597E-02	1.436E-01	3.307E-01	5.104E-01
120	1.299E+00	4.477E-01	6.286E-02	1.983E-02	1.535E-01	3.415E-01	5.186E-01
121	1.247E+00	4.201E-01	5.463E-02	2.370E-02	1.623E-01	3.500E-01	5.237E-01
122	1.194E+00	3.927E-01	4.700E-02	2.747E-02	1.698E-01	3.561E-01	5.256E-01
123	1.140E+00	3.657E-01	3.994E-02	3.105E-02	1.760E-01	3.598E-01	5.243E-01
124	1.085E+00	3.390E-01	3.341E-02	3.439E-02	1.808E-01	3.612E-01	5.198E-01
125	1.030E+00	3.127E-01	2.740E-02	3.745E-02	1.843E-01	3.602E-01	5.123E-01
126	9.741E-01	2.869E-01	2.191E-02	4.023E-02	1.864E-01	3.569E-01	5.018E-01
127	9.181E-01	2.617E-01	1.694E-02	4.273E-02	1.873E-01	3.515E-01	4.886E-01
128	8.623E-01	2.371E-01	1.253E-02	4.499E-02	1.869E-01	3.441E-01	4.729E-01
129	8.069E-01	2.133E-01	8.716E-03	4.706E-02	1.854E-01	3.348E-01	4.549E-01
130	7.522E-01	1.903E-01	5.550E-03	4.901E-02	1.830E-01	3.238E-01	4.348E-01

(continued on next page)

Table 4 (continued)

Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
131	6.984E-01	1.683E-01	3.094E-03	5.095E-02	1.797E-01	3.114E-01	4.130E-01
132	6.459E-01	1.473E-01	1.423E-03	5.296E-02	1.757E-01	2.978E-01	3.897E-01
133	5.947E-01	1.274E-01	6.163E-04	5.518E-02	1.713E-01	2.833E-01	3.653E-01
134	5.452E-01	1.088E-01	7.617E-04	5.773E-02	1.666E-01	2.681E-01	3.401E-01
135	4.976E-01	9.156E-02	1.951E-03	6.074E-02	1.618E-01	2.525E-01	3.144E-01
136	4.521E-01	7.574E-02	4.277E-03	6.437E-02	1.571E-01	2.367E-01	2.886E-01
137	4.089E-01	6.147E-02	7.837E-03	6.875E-02	1.528E-01	2.212E-01	2.630E-01
138	3.682E-01	4.883E-02	1.272E-02	7.404E-02	1.491E-01	2.061E-01	2.380E-01
139	3.301E-01	3.793E-02	1.903E-02	8.038E-02	1.462E-01	1.918E-01	2.138E-01
140	2.948E-01	2.883E-02	2.684E-02	8.791E-02	1.443E-01	1.784E-01	1.908E-01
141	2.625E-01	2.161E-02	3.623E-02	9.676E-02	1.436E-01	1.664E-01	1.693E-01
142	2.332E-01	1.632E-02	4.727E-02	1.071E-01	1.443E-01	1.558E-01	1.496E-01
143	2.070E-01	1.302E-02	6.003E-02	1.189E-01	1.465E-01	1.470E-01	1.320E-01
144	1.840E-01	1.174E-02	7.456E-02	1.324E-01	1.505E-01	1.402E-01	1.166E-01
145	1.643E-01	1.250E-02	9.088E-02	1.477E-01	1.564E-01	1.354E-01	1.037E-01
146	1.478E-01	1.533E-02	1.090E-01	1.648E-01	1.642E-01	1.330E-01	9.345E-02
147	1.346E-01	2.020E-02	1.290E-01	1.837E-01	1.741E-01	1.330E-01	8.603E-02
148	1.246E-01	2.710E-02	1.508E-01	2.045E-01	1.861E-01	1.354E-01	8.152E-02
149	1.179E-01	3.601E-02	1.744E-01	2.272E-01	2.003E-01	1.405E-01	8.002E-02
150	1.142E-01	4.686E-02	1.997E-01	2.518E-01	2.168E-01	1.482E-01	8.158E-02
151	1.136E-01	5.959E-02	2.267E-01	2.782E-01	2.354E-01	1.585E-01	8.619E-02
152	1.160E-01	7.413E-02	2.553E-01	3.064E-01	2.562E-01	1.715E-01	9.385E-02
153	1.211E-01	9.037E-02	2.854E-01	3.363E-01	2.790E-01	1.870E-01	1.045E-01
154	1.289E-01	1.082E-01	3.169E-01	3.677E-01	3.039E-01	2.049E-01	1.180E-01
155	1.392E-01	1.275E-01	3.496E-01	4.007E-01	3.307E-01	2.252E-01	1.343E-01
156	1.518E-01	1.482E-01	3.834E-01	4.349E-01	3.592E-01	2.478E-01	1.532E-01
157	1.665E-01	1.700E-01	4.182E-01	4.703E-01	3.893E-01	2.723E-01	1.746E-01
158	1.830E-01	1.928E-01	4.538E-01	5.067E-01	4.208E-01	2.987E-01	1.981E-01
159	2.013E-01	2.165E-01	4.899E-01	5.438E-01	4.535E-01	3.268E-01	2.236E-01
160	2.209E-01	2.409E-01	5.264E-01	5.815E-01	4.872E-01	3.562E-01	2.509E-01
161	2.418E-01	2.658E-01	5.631E-01	6.196E-01	5.215E-01	3.868E-01	2.796E-01
162	2.635E-01	2.910E-01	5.997E-01	6.577E-01	5.564E-01	4.182E-01	3.094E-01
163	2.860E-01	3.162E-01	6.360E-01	6.957E-01	5.915E-01	4.502E-01	3.401E-01
164	3.089E-01	3.414E-01	6.718E-01	7.332E-01	6.265E-01	4.825E-01	3.713E-01
165	3.319E-01	3.663E-01	7.069E-01	7.702E-01	6.611E-01	5.147E-01	4.027E-01
166	3.548E-01	3.906E-01	7.410E-01	8.062E-01	6.952E-01	5.467E-01	4.340E-01
167	3.775E-01	4.143E-01	7.739E-01	8.410E-01	7.284E-01	5.780E-01	4.648E-01
168	3.995E-01	4.371E-01	8.054E-01	8.745E-01	7.604E-01	6.084E-01	4.949E-01
169	4.207E-01	4.589E-01	8.353E-01	9.062E-01	7.909E-01	6.376E-01	5.238E-01
170	4.410E-01	4.794E-01	8.634E-01	9.361E-01	8.198E-01	6.654E-01	5.514E-01
171	4.599E-01	4.985E-01	8.894E-01	9.639E-01	8.467E-01	6.913E-01	5.774E-01
172	4.774E-01	5.160E-01	9.132E-01	9.893E-01	8.715E-01	7.153E-01	6.013E-01
173	4.934E-01	5.319E-01	9.347E-01	1.012E+00	8.939E-01	7.370E-01	6.231E-01
174	5.075E-01	5.459E-01	9.536E-01	1.033E+00	9.137E-01	7.563E-01	6.425E-01
175	5.197E-01	5.579E-01	9.698E-01	1.050E+00	9.308E-01	7.730E-01	6.592E-01
176	5.299E-01	5.679E-01	9.833E-01	1.064E+00	9.450E-01	7.868E-01	6.732E-01
177	5.379E-01	5.758E-01	9.938E-01	1.076E+00	9.561E-01	7.977E-01	6.841E-01
178	5.437E-01	5.814E-01	1.001E+00	1.084E+00	9.642E-01	8.056E-01	6.921E-01
179	5.471E-01	5.849E-01	1.006E+00	1.089E+00	9.690E-01	8.103E-01	6.969E-01
180	5.483E-01	5.860E-01	1.008E+00	1.090E+00	9.707E-01	8.119E-01	6.985E-01
Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
0	1.135E+02	1.049E+02	1.072E+02	1.115E+02	1.157E+02	1.241E+02	1.302E+02
1	1.077E+02	9.728E+01	9.808E+01	1.010E+02	1.040E+02	1.115E+02	1.141E+02
2	9.779E+01	8.482E+01	8.330E+01	8.469E+01	8.571E+01	8.884E+01	9.000E+01
3	8.975E+01	7.509E+01	7.261E+01	7.252E+01	7.305E+01	7.396E+01	7.408E+01
4	8.237E+01	6.671E+01	6.332E+01	6.258E+01	6.236E+01	6.183E+01	6.079E+01
5	7.570E+01	5.940E+01	5.542E+01	5.405E+01	5.328E+01	5.150E+01	4.945E+01
6	6.960E+01	5.294E+01	4.849E+01	4.663E+01	4.537E+01	4.257E+01	3.978E+01
7	6.398E+01	4.714E+01	4.233E+01	4.006E+01	3.842E+01	3.488E+01	3.165E+01
8	5.878E+01	4.189E+01	3.683E+01	3.425E+01	3.233E+01	2.834E+01	2.495E+01
9	5.393E+01	3.713E+01	3.190E+01	2.912E+01	2.703E+01	2.286E+01	1.956E+01
10	4.940E+01	3.279E+01	2.750E+01	2.462E+01	2.247E+01	1.835E+01	1.530E+01

Table 4 (continued)

Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
11	4.516E+01	2.884E+01	2.359E+01	2.070E+01	1.858E+01	1.469E+01	1.199E+01
12	4.118E+01	2.526E+01	2.013E+01	1.733E+01	1.531E+01	1.178E+01	9.451E+00
13	3.744E+01	2.202E+01	1.711E+01	1.445E+01	1.259E+01	9.464E+00	7.513E+00
14	3.395E+01	1.912E+01	1.447E+01	1.203E+01	1.036E+01	7.654E+00	6.040E+00
15	3.067E+01	1.651E+01	1.221E+01	1.000E+01	8.536E+00	6.242E+00	4.920E+00
16	2.762E+01	1.419E+01	1.027E+01	8.323E+00	7.061E+00	5.143E+00	4.063E+00
17	2.476E+01	1.214E+01	8.623E+00	6.941E+00	5.874E+00	4.286E+00	3.403E+00
18	2.211E+01	1.035E+01	7.238E+00	5.811E+00	4.923E+00	3.616E+00	2.887E+00
19	1.966E+01	8.777E+00	6.080E+00	4.892E+00	4.163E+00	3.087E+00	2.477E+00
20	1.740E+01	7.416E+00	5.118E+00	4.147E+00	3.556E+00	2.666E+00	2.148E+00
21	1.533E+01	6.245E+00	4.323E+00	3.546E+00	3.069E+00	2.327E+00	1.878E+00
22	1.343E+01	5.244E+00	3.671E+00	3.060E+00	2.677E+00	2.049E+00	1.654E+00
23	1.170E+01	4.393E+00	3.138E+00	2.668E+00	2.359E+00	1.818E+00	1.464E+00
24	1.013E+01	3.676E+00	2.705E+00	2.351E+00	2.099E+00	1.624E+00	1.303E+00
25	8.714E+00	3.077E+00	2.354E+00	2.093E+00	1.884E+00	1.458E+00	1.163E+00
26	7.444E+00	2.580E+00	2.071E+00	1.881E+00	1.704E+00	1.314E+00	1.042E+00
27	6.310E+00	2.172E+00	1.842E+00	1.707E+00	1.552E+00	1.189E+00	9.361E-01
28	5.305E+00	1.841E+00	1.659E+00	1.562E+00	1.421E+00	1.078E+00	8.433E-01
29	4.419E+00	1.575E+00	1.511E+00	1.439E+00	1.307E+00	9.805E-01	7.615E-01
30	3.645E+00	1.365E+00	1.392E+00	1.334E+00	1.206E+00	8.932E-01	6.894E-01
31	2.974E+00	1.202E+00	1.296E+00	1.244E+00	1.116E+00	8.151E-01	6.258E-01
32	2.398E+00	1.079E+00	1.217E+00	1.164E+00	1.035E+00	7.451E-01	5.695E-01
33	1.909E+00	9.882E-01	1.153E+00	1.093E+00	9.622E-01	6.823E-01	5.198E-01
34	1.500E+00	9.248E-01	1.100E+00	1.029E+00	8.955E-01	6.258E-01	4.757E-01
35	1.163E+00	8.834E-01	1.055E+00	9.708E-01	8.343E-01	5.749E-01	4.366E-01
36	8.917E-01	8.597E-01	1.016E+00	9.172E-01	7.779E-01	5.292E-01	4.020E-01
37	6.791E-01	8.498E-01	9.821E-01	8.676E-01	7.259E-01	4.880E-01	3.712E-01
38	5.190E-01	8.506E-01	9.514E-01	8.211E-01	6.777E-01	4.508E-01	3.439E-01
39	4.054E-01	8.592E-01	9.231E-01	7.774E-01	6.330E-01	4.174E-01	3.195E-01
40	3.326E-01	8.733E-01	8.962E-01	7.361E-01	5.915E-01	3.872E-01	2.978E-01
41	2.954E-01	8.907E-01	8.702E-01	6.968E-01	5.528E-01	3.599E-01	2.784E-01
42	2.889E-01	9.099E-01	8.446E-01	6.594E-01	5.168E-01	3.354E-01	2.610E-01
43	3.084E-01	9.293E-01	8.190E-01	6.236E-01	4.832E-01	3.131E-01	2.454E-01
44	3.496E-01	9.478E-01	7.931E-01	5.892E-01	4.519E-01	2.930E-01	2.313E-01
45	4.085E-01	9.643E-01	7.667E-01	5.562E-01	4.226E-01	2.748E-01	2.186E-01
46	4.815E-01	9.780E-01	7.397E-01	5.245E-01	3.952E-01	2.583E-01	2.072E-01
47	5.652E-01	9.883E-01	7.119E-01	4.939E-01	3.697E-01	2.434E-01	1.967E-01
48	6.565E-01	9.946E-01	6.834E-01	4.644E-01	3.457E-01	2.298E-01	1.873E-01
49	7.526E-01	9.966E-01	6.541E-01	4.360E-01	3.234E-01	2.174E-01	1.786E-01
50	8.510E-01	9.941E-01	6.241E-01	4.087E-01	3.024E-01	2.062E-01	1.708E-01
51	9.493E-01	9.868E-01	5.935E-01	3.823E-01	2.829E-01	1.960E-01	1.635E-01
52	1.046E+00	9.748E-01	5.623E-01	3.569E-01	2.646E-01	1.867E-01	1.569E-01
53	1.138E+00	9.580E-01	5.307E-01	3.326E-01	2.476E-01	1.782E-01	1.508E-01
54	1.225E+00	9.367E-01	4.987E-01	3.093E-01	2.318E-01	1.705E-01	1.451E-01
55	1.306E+00	9.110E-01	4.666E-01	2.870E-01	2.171E-01	1.634E-01	1.399E-01
56	1.379E+00	8.811E-01	4.345E-01	2.657E-01	2.035E-01	1.570E-01	1.350E-01
57	1.443E+00	8.473E-01	4.026E-01	2.456E-01	1.909E-01	1.512E-01	1.305E-01
58	1.497E+00	8.101E-01	3.711E-01	2.266E-01	1.794E-01	1.459E-01	1.263E-01
59	1.542E+00	7.697E-01	3.401E-01	2.087E-01	1.688E-01	1.411E-01	1.224E-01
60	1.577E+00	7.267E-01	3.099E-01	1.920E-01	1.593E-01	1.367E-01	1.188E-01
61	1.601E+00	6.814E-01	2.805E-01	1.765E-01	1.507E-01	1.327E-01	1.154E-01
62	1.615E+00	6.345E-01	2.523E-01	1.623E-01	1.430E-01	1.292E-01	1.121E-01
63	1.618E+00	5.862E-01	2.254E-01	1.493E-01	1.362E-01	1.259E-01	1.091E-01
64	1.611E+00	5.372E-01	1.999E-01	1.377E-01	1.302E-01	1.230E-01	1.063E-01
65	1.595E+00	4.879E-01	1.760E-01	1.273E-01	1.252E-01	1.204E-01	1.036E-01
66	1.569E+00	4.389E-01	1.538E-01	1.182E-01	1.209E-01	1.180E-01	1.010E-01
67	1.535E+00	3.906E-01	1.336E-01	1.105E-01	1.175E-01	1.159E-01	9.855E-02
68	1.492E+00	3.434E-01	1.153E-01	1.041E-01	1.148E-01	1.139E-01	9.621E-02
69	1.442E+00	2.980E-01	9.915E-02	9.900E-02	1.128E-01	1.122E-01	9.397E-02
70	1.386E+00	2.545E-01	8.518E-02	9.518E-02	1.115E-01	1.106E-01	9.182E-02
71	1.324E+00	2.136E-01	7.345E-02	9.262E-02	1.109E-01	1.092E-01	8.974E-02
72	1.256E+00	1.755E-01	6.402E-02	9.129E-02	1.108E-01	1.078E-01	8.772E-02
73	1.185E+00	1.405E-01	5.690E-02	9.114E-02	1.113E-01	1.066E-01	8.575E-02

(continued on next page)

Table 4 (continued)

Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
74	1.111E+00	1.091E-01	5.209E-02	9.211E-02	1.124E-01	1.054E-01	8.383E-02
75	1.034E+00	8.129E-02	4.959E-02	9.416E-02	1.139E-01	1.043E-01	8.195E-02
76	9.558E-01	5.746E-02	4.935E-02	9.721E-02	1.158E-01	1.033E-01	8.009E-02
77	8.770E-01	3.772E-02	5.131E-02	1.012E-01	1.180E-01	1.022E-01	7.826E-02
78	7.984E-01	2.220E-02	5.541E-02	1.060E-01	1.206E-01	1.012E-01	7.645E-02
79	7.209E-01	1.099E-02	6.155E-02	1.116E-01	1.234E-01	1.001E-01	7.464E-02
80	6.452E-01	4.109E-03	6.962E-02	1.179E-01	1.263E-01	9.900E-02	7.285E-02
81	5.721E-01	1.560E-03	7.948E-02	1.247E-01	1.294E-01	9.784E-02	7.107E-02
82	5.020E-01	3.285E-03	9.100E-02	1.320E-01	1.326E-01	9.663E-02	6.929E-02
83	4.358E-01	9.190E-03	1.040E-01	1.397E-01	1.357E-01	9.534E-02	6.751E-02
84	3.738E-01	1.914E-02	1.184E-01	1.476E-01	1.388E-01	9.396E-02	6.573E-02
85	3.165E-01	3.295E-02	1.339E-01	1.557E-01	1.417E-01	9.249E-02	6.395E-02
86	2.645E-01	5.042E-02	1.503E-01	1.638E-01	1.445E-01	9.091E-02	6.218E-02
87	2.179E-01	7.131E-02	1.676E-01	1.719E-01	1.470E-01	8.922E-02	6.040E-02
88	1.770E-01	9.533E-02	1.853E-01	1.798E-01	1.493E-01	8.742E-02	5.863E-02
89	1.420E-01	1.222E-01	2.035E-01	1.874E-01	1.512E-01	8.549E-02	5.687E-02
90	1.131E-01	1.515E-01	2.218E-01	1.947E-01	1.528E-01	8.345E-02	5.511E-02
91	9.022E-02	1.831E-01	2.400E-01	2.014E-01	1.539E-01	8.128E-02	5.337E-02
92	7.338E-02	2.164E-01	2.580E-01	2.076E-01	1.546E-01	7.900E-02	5.165E-02
93	6.248E-02	2.511E-01	2.755E-01	2.132E-01	1.547E-01	7.660E-02	4.995E-02
94	5.737E-02	2.869E-01	2.924E-01	2.180E-01	1.544E-01	7.409E-02	4.828E-02
95	5.782E-02	3.232E-01	3.084E-01	2.220E-01	1.535E-01	7.147E-02	4.664E-02
96	6.357E-02	3.599E-01	3.234E-01	2.251E-01	1.520E-01	6.876E-02	4.504E-02
97	7.431E-02	3.964E-01	3.372E-01	2.273E-01	1.500E-01	6.597E-02	4.350E-02
98	8.966E-02	4.323E-01	3.497E-01	2.285E-01	1.474E-01	6.311E-02	4.201E-02
99	1.092E-01	4.673E-01	3.607E-01	2.287E-01	1.442E-01	6.020E-02	4.059E-02
100	1.326E-01	5.011E-01	3.701E-01	2.279E-01	1.405E-01	5.724E-02	3.924E-02
101	1.592E-01	5.333E-01	3.778E-01	2.260E-01	1.362E-01	5.427E-02	3.797E-02
102	1.887E-01	5.635E-01	3.837E-01	2.231E-01	1.313E-01	5.129E-02	3.679E-02
103	2.205E-01	5.914E-01	3.878E-01	2.191E-01	1.260E-01	4.832E-02	3.571E-02
104	2.540E-01	6.169E-01	3.899E-01	2.141E-01	1.202E-01	4.540E-02	3.474E-02
105	2.889E-01	6.395E-01	3.900E-01	2.080E-01	1.139E-01	4.254E-02	3.389E-02
106	3.245E-01	6.592E-01	3.882E-01	2.010E-01	1.072E-01	3.977E-02	3.317E-02
107	3.604E-01	6.757E-01	3.844E-01	1.931E-01	1.002E-01	3.711E-02	3.258E-02
108	3.960E-01	6.889E-01	3.787E-01	1.843E-01	9.298E-02	3.458E-02	3.214E-02
109	4.309E-01	6.986E-01	3.711E-01	1.748E-01	8.549E-02	3.222E-02	3.185E-02
110	4.646E-01	7.047E-01	3.617E-01	1.646E-01	7.785E-02	3.006E-02	3.173E-02
111	4.966E-01	7.074E-01	3.506E-01	1.537E-01	7.014E-02	2.812E-02	3.178E-02
112	5.267E-01	7.064E-01	3.378E-01	1.424E-01	6.242E-02	2.642E-02	3.202E-02
113	5.543E-01	7.018E-01	3.236E-01	1.307E-01	5.479E-02	2.501E-02	3.244E-02
114	5.792E-01	6.938E-01	3.080E-01	1.187E-01	4.733E-02	2.390E-02	3.307E-02
115	6.011E-01	6.823E-01	2.913E-01	1.066E-01	4.012E-02	2.312E-02	3.390E-02
116	6.197E-01	6.676E-01	2.735E-01	9.454E-02	3.326E-02	2.271E-02	3.494E-02
117	6.349E-01	6.498E-01	2.549E-01	8.258E-02	2.683E-02	2.269E-02	3.621E-02
118	6.464E-01	6.291E-01	2.357E-01	7.091E-02	2.093E-02	2.308E-02	3.769E-02
119	6.542E-01	6.058E-01	2.162E-01	5.967E-02	1.566E-02	2.392E-02	3.942E-02
120	6.582E-01	5.800E-01	1.964E-01	4.901E-02	1.110E-02	2.522E-02	4.137E-02
121	6.584E-01	5.521E-01	1.767E-01	3.908E-02	7.353E-03	2.701E-02	4.357E-02
122	6.548E-01	5.223E-01	1.574E-01	3.005E-02	4.506E-03	2.931E-02	4.601E-02
123	6.474E-01	4.910E-01	1.385E-01	2.205E-02	2.649E-03	3.215E-02	4.869E-02
124	6.365E-01	4.586E-01	1.205E-01	1.524E-02	1.868E-03	3.553E-02	5.163E-02
125	6.221E-01	4.253E-01	1.035E-01	9.767E-03	2.249E-03	3.949E-02	5.481E-02
126	6.045E-01	3.917E-01	8.774E-02	5.771E-03	3.870E-03	4.402E-02	5.825E-02
127	5.839E-01	3.579E-01	7.353E-02	3.390E-03	6.806E-03	4.916E-02	6.193E-02
128	5.604E-01	3.244E-01	6.108E-02	2.755E-03	1.113E-02	5.489E-02	6.586E-02
129	5.346E-01	2.916E-01	5.061E-02	3.992E-03	1.690E-02	6.125E-02	7.003E-02
130	5.065E-01	2.599E-01	4.235E-02	7.214E-03	2.418E-02	6.822E-02	7.445E-02
131	4.767E-01	2.296E-01	3.649E-02	1.253E-02	3.301E-02	7.581E-02	7.910E-02
132	4.454E-01	2.011E-01	3.324E-02	2.003E-02	4.346E-02	8.403E-02	8.399E-02
133	4.130E-01	1.747E-01	3.278E-02	2.981E-02	5.553E-02	9.287E-02	8.910E-02
134	3.799E-01	1.508E-01	3.527E-02	4.193E-02	6.928E-02	1.023E-01	9.444E-02
135	3.464E-01	1.297E-01	4.085E-02	5.646E-02	8.471E-02	1.124E-01	9.999E-02
136	3.130E-01	1.116E-01	4.966E-02	7.344E-02	1.018E-01	1.231E-01	1.057E-01

Table 4 (continued)

Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
137	2.800E-01	9.692E-02	6.180E-02	9.290E-02	1.207E-01	1.343E-01	1.117E-01
138	2.479E-01	8.583E-02	7.735E-02	1.149E-01	1.412E-01	1.461E-01	1.178E-01
139	2.169E-01	7.856E-02	9.639E-02	1.393E-01	1.634E-01	1.585E-01	1.241E-01
140	1.874E-01	7.529E-02	1.190E-01	1.663E-01	1.872E-01	1.714E-01	1.306E-01
141	1.597E-01	7.618E-02	1.451E-01	1.958E-01	2.127E-01	1.848E-01	1.372E-01
142	1.341E-01	8.135E-02	1.747E-01	2.276E-01	2.397E-01	1.987E-01	1.440E-01
143	1.110E-01	9.089E-02	2.078E-01	2.619E-01	2.682E-01	2.130E-01	1.509E-01
144	9.047E-02	1.049E-01	2.444E-01	2.984E-01	2.982E-01	2.277E-01	1.578E-01
145	7.285E-02	1.233E-01	2.844E-01	3.371E-01	3.295E-01	2.428E-01	1.649E-01
146	5.828E-02	1.461E-01	3.276E-01	3.780E-01	3.621E-01	2.583E-01	1.721E-01
147	4.692E-02	1.733E-01	3.740E-01	4.208E-01	3.960E-01	2.741E-01	1.793E-01
148	3.888E-02	2.047E-01	4.234E-01	4.655E-01	4.309E-01	2.901E-01	1.866E-01
149	3.423E-02	2.403E-01	4.755E-01	5.119E-01	4.668E-01	3.063E-01	1.939E-01
150	3.302E-02	2.799E-01	5.303E-01	5.598E-01	5.036E-01	3.228E-01	2.012E-01
151	3.526E-02	3.233E-01	5.875E-01	6.092E-01	5.412E-01	3.393E-01	2.085E-01
152	4.089E-02	3.702E-01	6.469E-01	6.597E-01	5.794E-01	3.559E-01	2.157E-01
153	4.987E-02	4.205E-01	7.082E-01	7.112E-01	6.181E-01	3.726E-01	2.229E-01
154	6.206E-02	4.737E-01	7.712E-01	7.636E-01	6.571E-01	3.892E-01	2.301E-01
155	7.734E-02	5.297E-01	8.355E-01	8.166E-01	6.964E-01	4.058E-01	2.372E-01
156	9.554E-02	5.880E-01	9.008E-01	8.699E-01	7.357E-01	4.222E-01	2.442E-01
157	1.164E-01	6.483E-01	9.670E-01	9.234E-01	7.750E-01	4.385E-01	2.510E-01
158	1.398E-01	7.103E-01	1.034E+00	9.769E-01	8.140E-01	4.546E-01	2.577E-01
159	1.654E-01	7.734E-01	1.100E+00	1.030E+00	8.527E-01	4.703E-01	2.643E-01
160	1.929E-01	8.375E-01	1.167E+00	1.083E+00	8.908E-01	4.858E-01	2.707E-01
161	2.220E-01	9.019E-01	1.233E+00	1.135E+00	9.282E-01	5.009E-01	2.769E-01
162	2.525E-01	9.663E-01	1.298E+00	1.185E+00	9.648E-01	5.155E-01	2.829E-01
163	2.839E-01	1.030E+00	1.361E+00	1.235E+00	1.000E+00	5.296E-01	2.887E-01
164	3.159E-01	1.093E+00	1.424E+00	1.283E+00	1.035E+00	5.433E-01	2.943E-01
165	3.483E-01	1.155E+00	1.484E+00	1.330E+00	1.068E+00	5.563E-01	2.996E-01
166	3.806E-01	1.215E+00	1.542E+00	1.375E+00	1.100E+00	5.688E-01	3.046E-01
167	4.125E-01	1.273E+00	1.598E+00	1.417E+00	1.130E+00	5.806E-01	3.093E-01
168	4.436E-01	1.329E+00	1.651E+00	1.458E+00	1.159E+00	5.917E-01	3.138E-01
169	4.736E-01	1.381E+00	1.700E+00	1.496E+00	1.185E+00	6.020E-01	3.179E-01
170	5.023E-01	1.431E+00	1.747E+00	1.531E+00	1.210E+00	6.116E-01	3.218E-01
171	5.292E-01	1.476E+00	1.790E+00	1.563E+00	1.233E+00	6.204E-01	3.252E-01
172	5.541E-01	1.518E+00	1.829E+00	1.593E+00	1.254E+00	6.283E-01	3.284E-01
173	5.768E-01	1.556E+00	1.863E+00	1.619E+00	1.272E+00	6.354E-01	3.312E-01
174	5.970E-01	1.589E+00	1.894E+00	1.642E+00	1.288E+00	6.416E-01	3.337E-01
175	6.144E-01	1.617E+00	1.920E+00	1.662E+00	1.302E+00	6.469E-01	3.357E-01
176	6.289E-01	1.641E+00	1.942E+00	1.678E+00	1.314E+00	6.513E-01	3.375E-01
177	6.404E-01	1.659E+00	1.959E+00	1.691E+00	1.322E+00	6.547E-01	3.388E-01
178	6.486E-01	1.673E+00	1.971E+00	1.700E+00	1.329E+00	6.571E-01	3.398E-01
179	6.536E-01	1.681E+00	1.979E+00	1.706E+00	1.333E+00	6.586E-01	3.403E-01
180	6.553E-01	1.683E+00	1.981E+00	1.707E+00	1.334E+00	6.591E-01	3.405E-01

Table 5

Differential cross sections for elastic electron scattering from xenon. See page 17 for Explanation of Tables

Angle	1 eV	2.5 eV	5 eV	7.5 eV	10 eV	15 eV	20 eV
0	8.419E+00	1.759E+01	8.397E+01	1.160E+02	1.340E+02	1.874E+02	2.371E+02
1	7.932E+00	1.697E+01	8.258E+01	1.143E+02	1.316E+02	1.835E+02	2.326E+02
2	7.815E+00	1.547E+01	8.003E+01	1.111E+02	1.273E+02	1.763E+02	2.245E+02
3	7.626E+00	1.422E+01	7.773E+01	1.083E+02	1.234E+02	1.699E+02	2.172E+02
4	7.374E+00	1.301E+01	7.541E+01	1.055E+02	1.196E+02	1.637E+02	2.099E+02
5	7.069E+00	1.190E+01	7.314E+01	1.027E+02	1.159E+02	1.576E+02	2.028E+02
6	6.722E+00	1.089E+01	7.091E+01	9.997E+01	1.123E+02	1.517E+02	1.957E+02
7	6.347E+00	9.945E+00	6.872E+01	9.729E+01	1.089E+02	1.460E+02	1.888E+02
8	5.955E+00	9.081E+00	6.656E+01	9.465E+01	1.055E+02	1.404E+02	1.819E+02
9	5.556E+00	8.275E+00	6.442E+01	9.204E+01	1.022E+02	1.350E+02	1.750E+02
10	5.160E+00	7.526E+00	6.232E+01	8.946E+01	9.893E+01	1.296E+02	1.682E+02
11	4.773E+00	6.827E+00	6.025E+01	8.691E+01	9.575E+01	1.244E+02	1.614E+02
12	4.400E+00	6.176E+00	5.820E+01	8.438E+01	9.263E+01	1.193E+02	1.546E+02
13	4.044E+00	5.568E+00	5.618E+01	8.187E+01	8.956E+01	1.142E+02	1.478E+02
14	3.707E+00	5.005E+00	5.419E+01	7.938E+01	8.654E+01	1.093E+02	1.411E+02
15	3.390E+00	4.479E+00	5.222E+01	7.691E+01	8.357E+01	1.044E+02	1.344E+02
16	3.092E+00	3.993E+00	5.029E+01	7.446E+01	8.064E+01	9.964E+01	1.278E+02
17	2.813E+00	3.546E+00	4.838E+01	7.202E+01	7.775E+01	9.497E+01	1.212E+02
18	2.552E+00	3.136E+00	4.651E+01	6.961E+01	7.490E+01	9.038E+01	1.147E+02
19	2.307E+00	2.761E+00	4.466E+01	6.722E+01	7.209E+01	8.590E+01	1.083E+02
20	2.079E+00	2.423E+00	4.285E+01	6.485E+01	6.933E+01	8.151E+01	1.019E+02
21	1.865E+00	2.119E+00	4.108E+01	6.251E+01	6.661E+01	7.723E+01	9.571E+01
22	1.666E+00	1.848E+00	3.934E+01	6.019E+01	6.394E+01	7.306E+01	8.961E+01
23	1.480E+00	1.609E+00	3.764E+01	5.790E+01	6.131E+01	6.899E+01	8.366E+01
24	1.308E+00	1.403E+00	3.598E+01	5.565E+01	5.874E+01	6.505E+01	7.786E+01
25	1.149E+00	1.226E+00	3.436E+01	5.342E+01	5.621E+01	6.122E+01	7.222E+01
26	1.002E+00	1.080E+00	3.279E+01	5.124E+01	5.373E+01	5.751E+01	6.676E+01
27	8.681E-01	9.611E-01	3.126E+01	4.909E+01	5.131E+01	5.393E+01	6.148E+01
28	7.457E-01	8.702E-01	2.978E+01	4.698E+01	4.895E+01	5.048E+01	5.641E+01
29	6.346E-01	8.056E-01	2.835E+01	4.491E+01	4.664E+01	4.717E+01	5.155E+01
30	5.345E-01	7.664E-01	2.696E+01	4.289E+01	4.439E+01	4.398E+01	4.690E+01
31	4.448E-01	7.515E-01	2.563E+01	4.092E+01	4.220E+01	4.093E+01	4.248E+01
32	3.650E-01	7.599E-01	2.435E+01	3.900E+01	4.008E+01	3.802E+01	3.829E+01
33	2.946E-01	7.906E-01	2.312E+01	3.713E+01	3.801E+01	3.525E+01	3.433E+01
34	2.331E-01	8.425E-01	2.195E+01	3.531E+01	3.602E+01	3.262E+01	3.061E+01
35	1.801E-01	9.146E-01	2.084E+01	3.355E+01	3.409E+01	3.012E+01	2.713E+01
36	1.351E-01	1.006E+00	1.978E+01	3.184E+01	3.223E+01	2.776E+01	2.389E+01
37	9.775E-02	1.115E+00	1.877E+01	3.020E+01	3.043E+01	2.553E+01	2.089E+01
38	6.755E-02	1.241E+00	1.783E+01	2.861E+01	2.871E+01	2.344E+01	1.813E+01
39	4.412E-02	1.382E+00	1.694E+01	2.708E+01	2.705E+01	2.148E+01	1.560E+01
40	2.709E-02	1.539E+00	1.611E+01	2.562E+01	2.547E+01	1.965E+01	1.330E+01
41	1.606E-02	1.708E+00	1.533E+01	2.421E+01	2.395E+01	1.795E+01	1.123E+01
42	1.064E-02	1.891E+00	1.461E+01	2.287E+01	2.250E+01	1.636E+01	9.367E+00
43	1.045E-02	2.083E+00	1.395E+01	2.159E+01	2.111E+01	1.490E+01	7.718E+00
44	1.512E-02	2.286E+00	1.334E+01	2.037E+01	1.980E+01	1.355E+01	6.270E+00
45	2.428E-02	2.497E+00	1.278E+01	1.921E+01	1.855E+01	1.231E+01	5.014E+00
46	3.757E-02	2.717E+00	1.228E+01	1.812E+01	1.737E+01	1.117E+01	3.940E+00
47	5.465E-02	2.943E+00	1.183E+01	1.708E+01	1.625E+01	1.014E+01	3.037E+00
48	7.519E-02	3.174E+00	1.143E+01	1.611E+01	1.519E+01	9.199E+00	2.294E+00
49	9.885E-02	3.408E+00	1.108E+01	1.519E+01	1.420E+01	8.348E+00	1.701E+00
50	1.254E-01	3.645E+00	1.077E+01	1.433E+01	1.326E+01	7.582E+00	1.245E+00
51	1.544E-01	3.886E+00	1.051E+01	1.353E+01	1.239E+01	6.894E+00	9.137E-01
52	1.856E-01	4.125E+00	1.029E+01	1.278E+01	1.156E+01	6.281E+00	6.963E-01
53	2.188E-01	4.365E+00	1.011E+01	1.208E+01	1.080E+01	5.736E+00	5.803E-01
54	2.537E-01	4.603E+00	9.965E+00	1.144E+01	1.008E+01	5.254E+00	5.539E-01
55	2.900E-01	4.838E+00	9.858E+00	1.084E+01	9.415E+00	4.831E+00	6.054E-01
56	3.274E-01	5.070E+00	9.784E+00	1.030E+01	8.797E+00	4.460E+00	7.235E-01
57	3.658E-01	5.297E+00	9.740E+00	9.795E+00	8.225E+00	4.137E+00	8.970E-01
58	4.048E-01	5.517E+00	9.723E+00	9.336E+00	7.697E+00	3.858E+00	1.115E+00
59	4.442E-01	5.731E+00	9.731E+00	8.918E+00	7.209E+00	3.617E+00	1.369E+00
60	4.838E-01	5.938E+00	9.761E+00	8.540E+00	6.761E+00	3.410E+00	1.647E+00
61	5.235E-01	6.137E+00	9.810E+00	8.197E+00	6.349E+00	3.234E+00	1.941E+00
62	5.630E-01	6.326E+00	9.876E+00	7.888E+00	5.971E+00	3.085E+00	2.243E+00

Table 5 (continued)

Angle	1 eV	2.5 eV	5 eV	7.5 eV	10 eV	15 eV	20 eV
63	6.021E−01	6.504E+00	9.955E+00	7.611E+00	5.626E+00	2.958E+00	2.546E+00
64	6.408E−01	6.671E+00	1.005E+01	7.364E+00	5.312E+00	2.851E+00	2.842E+00
65	6.787E−01	6.828E+00	1.014E+01	7.143E+00	5.025E+00	2.760E+00	3.124E+00
66	7.158E−01	6.971E+00	1.025E+01	6.946E+00	4.765E+00	2.682E+00	3.389E+00
67	7.519E−01	7.102E+00	1.035E+01	6.772E+00	4.528E+00	2.615E+00	3.630E+00
68	7.870E−01	7.219E+00	1.046E+01	6.618E+00	4.314E+00	2.557E+00	3.844E+00
69	8.208E−01	7.322E+00	1.056E+01	6.481E+00	4.120E+00	2.506E+00	4.028E+00
70	8.532E−01	7.411E+00	1.066E+01	6.360E+00	3.944E+00	2.460E+00	4.180E+00
71	8.842E−01	7.485E+00	1.076E+01	6.252E+00	3.786E+00	2.416E+00	4.297E+00
72	9.137E−01	7.544E+00	1.084E+01	6.155E+00	3.642E+00	2.375E+00	4.379E+00
73	9.415E−01	7.589E+00	1.091E+01	6.067E+00	3.512E+00	2.335E+00	4.426E+00
74	9.676E−01	7.616E+00	1.097E+01	5.987E+00	3.394E+00	2.295E+00	4.436E+00
75	9.919E−01	7.630E+00	1.102E+01	5.912E+00	3.287E+00	2.255E+00	4.412E+00
76	1.014E+00	7.626E+00	1.105E+01	5.841E+00	3.189E+00	2.213E+00	4.355E+00
77	1.035E+00	7.607E+00	1.106E+01	5.772E+00	3.100E+00	2.170E+00	4.266E+00
78	1.054E+00	7.573E+00	1.105E+01	5.703E+00	3.018E+00	2.126E+00	4.147E+00
79	1.071E+00	7.523E+00	1.102E+01	5.635E+00	2.942E+00	2.081E+00	4.002E+00
80	1.085E+00	7.457E+00	1.097E+01	5.564E+00	2.871E+00	2.034E+00	3.833E+00
81	1.098E+00	7.377E+00	1.090E+01	5.490E+00	2.804E+00	1.987E+00	3.642E+00
82	1.109E+00	7.282E+00	1.081E+01	5.413E+00	2.741E+00	1.939E+00	3.435E+00
83	1.118E+00	7.172E+00	1.069E+01	5.330E+00	2.682E+00	1.890E+00	3.213E+00
84	1.124E+00	7.047E+00	1.055E+01	5.242E+00	2.624E+00	1.843E+00	2.980E+00
85	1.129E+00	6.910E+00	1.038E+01	5.148E+00	2.568E+00	1.795E+00	2.741E+00
86	1.132E+00	6.760E+00	1.020E+01	5.046E+00	2.514E+00	1.750E+00	2.497E+00
87	1.133E+00	6.598E+00	9.987E+00	4.938E+00	2.460E+00	1.706E+00	2.254E+00
88	1.132E+00	6.424E+00	9.754E+00	4.823E+00	2.408E+00	1.664E+00	2.014E+00
89	1.129E+00	6.238E+00	9.500E+00	4.700E+00	2.356E+00	1.626E+00	1.780E+00
90	1.105E+00	6.052E+00	9.224E+00	4.569E+00	2.304E+00	1.591E+00	1.555E+00
91	1.099E+00	5.848E+00	8.929E+00	4.432E+00	2.252E+00	1.560E+00	1.342E+00
92	1.090E+00	5.634E+00	8.615E+00	4.287E+00	2.200E+00	1.533E+00	1.144E+00
93	1.078E+00	5.413E+00	8.283E+00	4.136E+00	2.149E+00	1.511E+00	9.614E−01
94	1.063E+00	5.187E+00	7.935E+00	3.978E+00	2.098E+00	1.495E+00	7.970E−01
95	1.045E+00	4.955E+00	7.573E+00	3.815E+00	2.047E+00	1.483E+00	6.522E−01
96	1.026E+00	4.718E+00	7.198E+00	3.646E+00	1.996E+00	1.478E+00	5.280E−01
97	1.003E+00	4.477E+00	6.812E+00	3.474E+00	1.947E+00	1.477E+00	4.251E−01
98	9.785E−01	4.234E+00	6.417E+00	3.298E+00	1.898E+00	1.483E+00	3.439E−01
99	9.518E−01	4.124E+00	6.015E+00	3.120E+00	1.850E+00	1.494E+00	2.845E−01
100	9.229E−01	3.844E+00	5.608E+00	2.940E+00	1.803E+00	1.511E+00	2.466E−01
101	8.922E−01	3.636E+00	5.198E+00	2.760E+00	1.758E+00	1.533E+00	2.296E−01
102	8.600E−01	3.504E+00	4.789E+00	2.580E+00	1.715E+00	1.560E+00	2.326E−01
103	8.262E−01	3.305E+00	4.381E+00	2.402E+00	1.674E+00	1.592E+00	2.543E−01
104	7.909E−01	3.164E+00	3.977E+00	2.228E+00	1.636E+00	1.629E+00	2.934E−01
105	7.546E−01	3.018E+00	3.581E+00	2.058E+00	1.601E+00	1.669E+00	3.482E−01
106	7.173E−01	2.869E+00	3.194E+00	1.893E+00	1.570E+00	1.713E+00	4.168E−01
107	6.794E−01	2.697E+00	2.819E+00	1.736E+00	1.542E+00	1.760E+00	4.973E−01
108	6.407E−01	2.544E+00	2.458E+00	1.587E+00	1.518E+00	1.809E+00	5.874E−01
109	6.018E−01	2.389E+00	2.113E+00	1.447E+00	1.499E+00	1.860E+00	6.849E−01
110	5.626E−01	2.234E+00	1.788E+00	1.319E+00	1.485E+00	1.912E+00	7.876E−01
111	5.236E−01	2.079E+00	1.485E+00	1.203E+00	1.476E+00	1.965E+00	8.931E−01
112	4.847E−01	1.924E+00	1.205E+00	1.100E+00	1.473E+00	2.018E+00	9.992E−01
113	4.464E−01	1.772E+00	9.520E−01	1.013E+00	1.476E+00	2.070E+00	1.104E+00
114	4.086E−01	1.622E+00	7.271E−01	9.416E−01	1.485E+00	2.120E+00	1.204E+00
115	3.716E−01	1.475E+00	5.328E−01	8.877E−01	1.502E+00	2.169E+00	1.299E+00
116	3.358E−01	1.333E+00	3.711E−01	8.524E−01	1.525E+00	2.214E+00	1.386E+00
117	3.010E−01	1.195E+00	2.440E−01	8.369E−01	1.555E+00	2.257E+00	1.464E+00
118	2.678E−01	1.063E+00	1.532E−01	8.422E−01	1.594E+00	2.296E+00	1.531E+00
119	2.361E−01	9.371E−01	1.005E−01	8.694E−01	1.640E+00	2.331E+00	1.586E+00
120	2.062E−01	8.186E−01	8.746E−02	9.192E−01	1.694E+00	2.361E+00	1.628E+00
121	1.782E−01	7.075E−01	1.155E−01	9.928E−01	1.757E+00	2.385E+00	1.656E+00
122	1.524E−01	6.051E−01	1.860E−01	1.091E+00	1.829E+00	2.405E+00	1.670E+00
123	1.288E−01	5.114E−01	2.999E−01	1.214E+00	1.909E+00	2.419E+00	1.670E+00
124	1.076E−01	4.273E−01	4.584E−01	1.362E+00	1.998E+00	2.426E+00	1.655E+00
125	8.900E−02	3.533E−01	6.621E−01	1.537E+00	2.096E+00	2.428E+00	1.627E+00

(continued on next page)

Table 5 (continued)

Angle	1 eV	2.5 eV	5 eV	7.5 eV	10 eV	15 eV	20 eV
126	7.304E−02	2.900E−01	9.118E−01	1.739E+00	2.204E+00	2.423E+00	1.585E+00
127	5.988E−02	2.377E−01	1.208E+00	1.967E+00	2.320E+00	2.412E+00	1.532E+00
128	4.964E−02	1.971E−01	1.551E+00	2.223E+00	2.446E+00	2.394E+00	1.467E+00
129	4.241E−02	1.684E−01	1.940E+00	2.506E+00	2.580E+00	2.371E+00	1.393E+00
130	3.828E−02	1.520E−01	2.376E+00	2.816E+00	2.724E+00	2.341E+00	1.311E+00
131	3.734E−02	1.482E−01	2.859E+00	3.153E+00	2.877E+00	2.305E+00	1.224E+00
132	3.964E−02	1.574E−01	3.387E+00	3.518E+00	3.039E+00	2.264E+00	1.133E+00
133	4.525E−02	1.796E−01	3.961E+00	3.908E+00	3.210E+00	2.217E+00	1.040E+00
134	5.421E−02	2.152E−01	4.579E+00	4.325E+00	3.389E+00	2.165E+00	9.483E−01
135	6.655E−02	2.642E−01	5.240E+00	4.767E+00	3.576E+00	2.108E+00	8.600E−01
136	8.229E−02	3.267E−01	5.944E+00	5.234E+00	3.772E+00	2.047E+00	7.775E−01
137	1.015E−01	4.028E−01	6.689E+00	5.725E+00	3.975E+00	1.982E+00	7.034E−01
138	1.240E−01	4.923E−01	7.473E+00	6.239E+00	4.186E+00	1.914E+00	6.403E−01
139	1.500E−01	5.954E−01	8.294E+00	6.776E+00	4.404E+00	1.843E+00	5.907E−01
140	1.793E−01	7.119E−01	9.151E+00	7.333E+00	4.628E+00	1.769E+00	5.569E−01
141	2.119E−01	8.412E−01	1.004E+01	7.910E+00	4.859E+00	1.694E+00	5.413E−01
142	2.479E−01	9.842E−01	1.096E+01	8.506E+00	5.096E+00	1.617E+00	5.460E−01
143	2.869E−01	1.139E+00	1.192E+01	9.119E+00	5.337E+00	1.539E+00	5.730E−01
144	3.293E−01	1.307E+00	1.289E+01	9.747E+00	5.584E+00	1.461E+00	6.241E−01
145	3.745E−01	1.487E+00	1.390E+01	1.039E+01	5.835E+00	1.383E+00	7.007E−01
146	4.228E−01	1.679E+00	1.492E+01	1.105E+01	6.090E+00	1.305E+00	8.043E−01
147	4.738E−01	1.881E+00	1.596E+01	1.171E+01	6.348E+00	1.228E+00	9.357E−01
148	5.277E−01	2.095E+00	1.702E+01	1.239E+01	6.608E+00	1.153E+00	1.096E+00
149	5.841E−01	2.319E+00	1.809E+01	1.307E+01	6.870E+00	1.080E+00	1.285E+00
150	6.429E−01	2.552E+00	1.917E+01	1.376E+01	7.133E+00	1.009E+00	1.503E+00
151	7.040E−01	2.795E+00	2.026E+01	1.445E+01	7.397E+00	9.399E−01	1.749E+00
152	7.674E−01	3.047E+00	2.135E+01	1.514E+01	7.661E+00	8.740E−01	2.024E+00
153	8.327E−01	3.306E+00	2.243E+01	1.583E+01	7.924E+00	8.112E−01	2.327E+00
154	8.997E−01	3.572E+00	2.352E+01	1.652E+01	8.185E+00	7.515E−01	2.655E+00
155	9.684E−01	3.844E+00	2.460E+01	1.720E+01	8.444E+00	6.953E−01	3.008E+00
156	1.039E+00	4.123E+00	2.567E+01	1.788E+01	8.700E+00	6.426E−01	3.383E+00
157	1.110E+00	4.407E+00	2.673E+01	1.855E+01	8.953E+00	5.934E−01	3.779E+00
158	1.182E+00	4.694E+00	2.776E+01	1.921E+01	9.200E+00	5.479E−01	4.192E+00
159	1.256E+00	4.985E+00	2.878E+01	1.985E+01	9.443E+00	5.060E−01	4.621E+00
160	1.330E+00	5.279E+00	2.978E+01	2.048E+01	9.680E+00	4.677E−01	5.063E+00
161	1.404E+00	5.574E+00	3.075E+01	2.110E+01	9.911E+00	4.330E−01	5.513E+00
162	1.479E+00	5.871E+00	3.169E+01	2.169E+01	1.013E+01	4.017E−01	5.970E+00
163	1.553E+00	6.167E+00	3.260E+01	2.227E+01	1.035E+01	3.736E−01	6.429E+00
164	1.627E+00	6.461E+00	3.348E+01	2.282E+01	1.056E+01	3.488E−01	6.887E+00
165	1.702E+00	6.756E+00	3.432E+01	2.335E+01	1.075E+01	3.269E−01	7.340E+00
166	1.776E+00	7.050E+00	3.511E+01	2.386E+01	1.094E+01	3.078E−01	7.785E+00
167	1.847E+00	7.333E+00	3.587E+01	2.433E+01	1.112E+01	2.912E−01	8.219E+00
168	1.920E+00	7.621E+00	3.657E+01	2.478E+01	1.129E+01	2.771E−01	8.637E+00
169	1.989E+00	7.897E+00	3.723E+01	2.520E+01	1.144E+01	2.651E−01	9.036E+00
170	2.059E+00	8.173E+00	3.784E+01	2.558E+01	1.159E+01	2.550E−01	9.413E+00
171	2.125E+00	8.437E+00	3.840E+01	2.594E+01	1.172E+01	2.466E−01	9.765E+00
172	2.190E+00	8.694E+00	3.891E+01	2.625E+01	1.184E+01	2.398E−01	1.009E+01
173	2.253E+00	8.945E+00	3.936E+01	2.654E+01	1.194E+01	2.343E−01	1.038E+01
174	2.315E+00	9.189E+00	3.975E+01	2.679E+01	1.204E+01	2.299E−01	1.064E+01
175	2.373E+00	9.421E+00	4.008E+01	2.700E+01	1.211E+01	2.265E−01	1.086E+01
176	2.428E+00	9.641E+00	4.036E+01	2.717E+01	1.218E+01	2.239E−01	1.105E+01
177	2.482E+00	9.854E+00	4.057E+01	2.731E+01	1.223E+01	2.220E−01	1.119E+01
178	2.533E+00	1.005E+01	4.073E+01	2.740E+01	1.227E+01	2.207E−01	1.130E+01
179	2.579E+00	1.024E+01	4.082E+01	2.746E+01	1.229E+01	2.200E−01	1.136E+01
180	2.623E+00	1.041E+01	4.085E+01	2.748E+01	1.230E+01	2.197E−01	1.138E+01
Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
0	1.120E+02	1.143E+02	1.300E+02	1.410E+02	1.476E+02	1.515E+02	1.539E+02
1	1.077E+02	1.080E+02	1.221E+02	1.319E+02	1.376E+02	1.407E+02	1.425E+02
2	1.003E+02	9.707E+01	1.084E+02	1.165E+02	1.204E+02	1.224E+02	1.232E+02
3	9.426E+01	8.821E+01	9.740E+01	1.036E+02	1.068E+02	1.080E+02	1.080E+02
4	8.859E+01	8.005E+01	8.726E+01	9.223E+01	9.441E+01	9.487E+01	9.468E+01
5	8.344E+01	7.275E+01	7.827E+01	8.208E+01	8.349E+01	8.352E+01	8.291E+01

Table 5 (continued)

Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
6	7.873E+01	6.619E+01	7.018E+01	7.300E+01	7.379E+01	7.340E+01	7.253E+01
7	7.439E+01	6.026E+01	6.290E+01	6.486E+01	6.510E+01	6.438E+01	6.330E+01
8	7.037E+01	5.489E+01	5.633E+01	5.752E+01	5.731E+01	5.631E+01	5.507E+01
9	6.663E+01	5.001E+01	5.038E+01	5.090E+01	5.029E+01	4.907E+01	4.770E+01
10	6.312E+01	4.557E+01	4.499E+01	4.491E+01	4.397E+01	4.256E+01	4.109E+01
11	5.981E+01	4.152E+01	4.010E+01	3.950E+01	3.827E+01	3.672E+01	3.518E+01
12	5.669E+01	3.783E+01	3.566E+01	3.460E+01	3.314E+01	3.147E+01	2.990E+01
13	5.371E+01	3.445E+01	3.163E+01	3.018E+01	2.851E+01	2.678E+01	2.519E+01
14	5.088E+01	3.135E+01	2.798E+01	2.619E+01	2.438E+01	2.260E+01	2.102E+01
15	4.816E+01	2.852E+01	2.467E+01	2.261E+01	2.068E+01	1.889E+01	1.735E+01
16	4.555E+01	2.593E+01	2.168E+01	1.940E+01	1.740E+01	1.562E+01	1.415E+01
17	4.303E+01	2.355E+01	1.899E+01	1.654E+01	1.450E+01	1.277E+01	1.137E+01
18	4.061E+01	2.137E+01	1.657E+01	1.400E+01	1.196E+01	1.030E+01	8.997E+00
19	3.827E+01	1.938E+01	1.441E+01	1.175E+01	9.751E+00	8.175E+00	6.989E+00
20	3.600E+01	1.756E+01	1.247E+01	9.787E+00	7.845E+00	6.378E+00	5.316E+00
21	3.381E+01	1.589E+01	1.075E+01	8.076E+00	6.219E+00	4.877E+00	3.949E+00
22	3.169E+01	1.437E+01	9.235E+00	6.599E+00	4.849E+00	3.643E+00	2.855E+00
23	2.964E+01	1.298E+01	7.896E+00	5.335E+00	3.710E+00	2.650E+00	2.004E+00
24	2.766E+01	1.171E+01	6.725E+00	4.264E+00	2.780E+00	1.871E+00	1.366E+00
25	2.574E+01	1.055E+01	5.703E+00	3.368E+00	2.034E+00	1.280E+00	9.134E–01
26	2.390E+01	9.492E+00	4.817E+00	2.626E+00	1.452E+00	8.510E–01	6.178E–01
27	2.211E+01	8.529E+00	4.054E+00	2.022E+00	1.011E+00	5.609E–01	4.536E–01
28	2.040E+01	7.652E+00	3.400E+00	1.539E+00	6.917E–01	3.870E–01	3.969E–01
29	1.876E+01	6.852E+00	2.842E+00	1.160E+00	4.750E–01	3.086E–01	4.255E–01
30	1.718E+01	6.124E+00	2.369E+00	8.695E–01	3.435E–01	3.064E–01	5.193E–01
31	1.568E+01	5.461E+00	1.971E+00	6.547E–01	2.810E–01	3.629E–01	6.601E–01
32	1.425E+01	4.857E+00	1.637E+00	5.024E–01	2.727E–01	4.625E–01	8.320E–01
33	1.289E+01	4.307E+00	1.358E+00	4.008E–01	3.056E–01	5.913E–01	1.021E+00
34	1.161E+01	3.806E+00	1.127E+00	3.395E–01	3.679E–01	7.373E–01	1.216E+00
35	1.040E+01	3.351E+00	9.349E–01	3.093E–01	4.495E–01	8.901E–01	1.406E+00
36	9.266E+00	2.938E+00	7.762E–01	3.020E–01	5.418E–01	1.041E+00	1.583E+00
37	8.210E+00	2.563E+00	6.450E–01	3.108E–01	6.372E–01	1.183E+00	1.741E+00
38	7.230E+00	2.224E+00	5.365E–01	3.297E–01	7.300E–01	1.311E+00	1.876E+00
39	6.328E+00	1.918E+00	4.463E–01	3.540E–01	8.152E–01	1.420E+00	1.983E+00
40	5.501E+00	1.642E+00	3.711E–01	3.796E–01	8.894E–01	1.508E+00	2.062E+00
41	4.750E+00	1.396E+00	3.080E–01	4.035E–01	9.499E–01	1.573E+00	2.110E+00
42	4.074E+00	1.177E+00	2.545E–01	4.235E–01	9.950E–01	1.613E+00	2.129E+00
43	3.471E+00	9.846E–01	2.090E–01	4.381E–01	1.024E+00	1.630E+00	2.119E+00
44	2.940E+00	8.164E–01	1.699E–01	4.462E–01	1.037E+00	1.624E+00	2.082E+00
45	2.478E+00	6.715E–01	1.364E–01	4.475E–01	1.033E+00	1.596E+00	2.021E+00
46	2.083E+00	5.488E–01	1.076E–01	4.419E–01	1.015E+00	1.547E+00	1.937E+00
47	1.752E+00	4.473E–01	8.305E–02	4.299E–01	9.833E–01	1.482E+00	1.835E+00
48	1.482E+00	3.657E–01	6.254E–02	4.120E–01	9.395E–01	1.401E+00	1.717E+00
49	1.270E+00	3.031E–01	4.590E–02	3.892E–01	8.855E–01	1.308E+00	1.587E+00
50	1.112E+00	2.582E–01	3.307E–02	3.623E–01	8.234E–01	1.206E+00	1.448E+00
51	1.004E+00	2.299E–01	2.407E–02	3.324E–01	7.551E–01	1.097E+00	1.303E+00
52	9.410E–01	2.169E–01	1.889E–02	3.006E–01	6.827E–01	9.834E–01	1.156E+00
53	9.198E–01	2.179E–01	1.754E–02	2.681E–01	6.080E–01	8.688E–01	1.010E+00
54	9.355E–01	2.315E–01	2.000E–02	2.357E–01	5.329E–01	7.551E–01	8.672E–01
55	9.834E–01	2.563E–01	2.615E–02	2.043E–01	4.591E–01	6.447E–01	7.306E–01
56	1.059E+00	2.908E–01	3.585E–02	1.749E–01	3.881E–01	5.395E–01	6.022E–01
57	1.158E+00	3.333E–01	4.885E–02	1.480E–01	3.213E–01	4.412E–01	4.839E–01
58	1.274E+00	3.824E–01	6.484E–02	1.241E–01	2.596E–01	3.511E–01	3.771E–01
59	1.405E+00	4.365E–01	8.341E–02	1.037E–01	2.039E–01	2.705E–01	2.832E–01
60	1.545E+00	4.938E–01	1.041E–01	8.690E–02	1.550E–01	2.001E–01	2.029E–01
61	1.691E+00	5.530E–01	1.264E–01	7.383E–02	1.131E–01	1.405E–01	1.367E–01
62	1.838E+00	6.124E–01	1.497E–01	6.442E–02	7.851E–02	9.194E–02	8.488E–02
63	1.982E+00	6.706E–01	1.734E–01	5.847E–02	5.124E–02	5.441E–02	4.719E–02
64	2.120E+00	7.261E–01	1.968E–01	5.570E–02	3.107E–02	2.769E–02	2.328E–02
65	2.250E+00	7.778E–01	2.193E–01	5.572E–02	1.766E–02	1.132E–02	1.251E–02
66	2.368E+00	8.245E–01	2.403E–01	5.808E–02	1.054E–02	4.651E–03	1.401E–02
67	2.472E+00	8.652E–01	2.593E–01	6.225E–02	9.088E–03	6.891E–03	2.672E–02
68	2.560E+00	8.990E–01	2.755E–01	6.771E–02	1.262E–02	1.710E–02	4.944E–02

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Table 5 (continued)

Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
69	2.630E+00	9.253E-01	2.886E-01	7.389E-02	2.037E-02	3.424E-02	8.084E-02
70	2.682E+00	9.436E-01	2.982E-01	8.027E-02	3.153E-02	5.720E-02	1.195E-01
71	2.714E+00	9.536E-01	3.039E-01	8.632E-02	4.530E-02	8.483E-02	1.640E-01
72	2.726E+00	9.552E-01	3.056E-01	9.159E-02	6.087E-02	1.160E-01	2.128E-01
73	2.719E+00	9.485E-01	3.032E-01	9.566E-02	7.745E-02	1.495E-01	2.644E-01
74	2.693E+00	9.339E-01	2.966E-01	9.821E-02	9.432E-02	1.843E-01	3.175E-01
75	2.648E+00	9.117E-01	2.861E-01	9.899E-02	1.108E-01	2.192E-01	3.707E-01
76	2.585E+00	8.827E-01	2.719E-01	9.787E-02	1.264E-01	2.535E-01	4.226E-01
77	2.507E+00	8.477E-01	2.545E-01	9.480E-02	1.405E-01	2.861E-01	4.722E-01
78	2.415E+00	8.076E-01	2.343E-01	8.983E-02	1.528E-01	3.163E-01	5.184E-01
79	2.311E+00	7.638E-01	2.121E-01	8.315E-02	1.631E-01	3.436E-01	5.604E-01
80	2.196E+00	7.173E-01	1.884E-01	7.501E-02	1.711E-01	3.674E-01	5.973E-01
81	2.074E+00	6.695E-01	1.642E-01	6.579E-02	1.769E-01	3.874E-01	6.287E-01
82	1.947E+00	6.219E-01	1.404E-01	5.595E-02	1.805E-01	4.034E-01	6.541E-01
83	1.817E+00	5.760E-01	1.179E-01	4.604E-02	1.822E-01	4.152E-01	6.732E-01
84	1.687E+00	5.331E-01	9.763E-02	3.666E-02	1.821E-01	4.230E-01	6.860E-01
85	1.558E+00	4.948E-01	8.074E-02	2.849E-02	1.808E-01	4.269E-01	6.926E-01
86	1.435E+00	4.626E-01	6.821E-02	2.225E-02	1.787E-01	4.273E-01	6.932E-01
87	1.319E+00	4.378E-01	6.104E-02	1.867E-02	1.762E-01	4.245E-01	6.880E-01
88	1.212E+00	4.217E-01	6.020E-02	1.849E-02	1.741E-01	4.190E-01	6.776E-01
89	1.117E+00	4.155E-01	6.661E-02	2.246E-02	1.729E-01	4.114E-01	6.626E-01
90	1.034E+00	4.203E-01	8.109E-02	3.130E-02	1.732E-01	4.024E-01	6.435E-01
91	9.669E-01	4.369E-01	1.044E-01	4.566E-02	1.758E-01	3.925E-01	6.212E-01
92	9.156E-01	4.662E-01	1.371E-01	6.616E-02	1.812E-01	3.825E-01	5.963E-01
93	8.814E-01	5.085E-01	1.798E-01	9.332E-02	1.900E-01	3.731E-01	5.698E-01
94	8.651E-01	5.643E-01	2.327E-01	1.276E-01	2.028E-01	3.649E-01	5.423E-01
95	8.670E-01	6.337E-01	2.962E-01	1.693E-01	2.201E-01	3.587E-01	5.148E-01
96	8.875E-01	7.165E-01	3.701E-01	2.187E-01	2.423E-01	3.549E-01	4.880E-01
97	9.260E-01	8.124E-01	4.544E-01	2.758E-01	2.697E-01	3.542E-01	4.626E-01
98	9.822E-01	9.208E-01	5.487E-01	3.406E-01	3.025E-01	3.569E-01	4.394E-01
99	1.055E+00	1.041E+00	6.526E-01	4.130E-01	3.409E-01	3.636E-01	4.189E-01
100	1.144E+00	1.172E+00	7.653E-01	4.925E-01	3.848E-01	3.745E-01	4.017E-01
101	1.246E+00	1.312E+00	8.861E-01	5.787E-01	4.341E-01	3.897E-01	3.882E-01
102	1.361E+00	1.460E+00	1.014E+00	6.711E-01	4.885E-01	4.093E-01	3.787E-01
103	1.487E+00	1.615E+00	1.148E+00	7.688E-01	5.478E-01	4.333E-01	3.734E-01
104	1.621E+00	1.775E+00	1.286E+00	8.710E-01	6.114E-01	4.615E-01	3.725E-01
105	1.761E+00	1.937E+00	1.427E+00	9.768E-01	6.787E-01	4.937E-01	3.760E-01
106	1.904E+00	2.101E+00	1.570E+00	1.085E+00	7.490E-01	5.295E-01	3.836E-01
107	2.048E+00	2.263E+00	1.713E+00	1.194E+00	8.215E-01	5.683E-01	3.952E-01
108	2.191E+00	2.422E+00	1.855E+00	1.304E+00	8.952E-01	6.096E-01	4.105E-01
109	2.329E+00	2.575E+00	1.992E+00	1.411E+00	9.694E-01	6.528E-01	4.289E-01
110	2.461E+00	2.721E+00	2.125E+00	1.517E+00	1.043E+00	6.972E-01	4.500E-01
111	2.582E+00	2.857E+00	2.251E+00	1.618E+00	1.115E+00	7.418E-01	4.733E-01
112	2.693E+00	2.982E+00	2.369E+00	1.713E+00	1.184E+00	7.859E-01	4.979E-01
113	2.788E+00	3.092E+00	2.476E+00	1.802E+00	1.249E+00	8.287E-01	5.233E-01
114	2.868E+00	3.188E+00	2.571E+00	1.883E+00	1.309E+00	8.692E-01	5.486E-01
115	2.930E+00	3.266E+00	2.653E+00	1.954E+00	1.363E+00	9.066E-01	5.732E-01
116	2.972E+00	3.326E+00	2.721E+00	2.015E+00	1.410E+00	9.400E-01	5.962E-01
117	2.993E+00	3.366E+00	2.773E+00	2.064E+00	1.449E+00	9.687E-01	6.169E-01
118	2.993E+00	3.386E+00	2.809E+00	2.101E+00	1.480E+00	9.918E-01	6.347E-01
119	2.970E+00	3.385E+00	2.827E+00	2.125E+00	1.501E+00	1.009E+00	6.489E-01
120	2.924E+00	3.362E+00	2.828E+00	2.135E+00	1.513E+00	1.019E+00	6.588E-01
121	2.856E+00	3.317E+00	2.810E+00	2.131E+00	1.514E+00	1.022E+00	6.640E-01
122	2.766E+00	3.251E+00	2.774E+00	2.112E+00	1.504E+00	1.018E+00	6.640E-01
123	2.655E+00	3.163E+00	2.719E+00	2.079E+00	1.483E+00	1.005E+00	6.586E-01
124	2.524E+00	3.055E+00	2.648E+00	2.032E+00	1.452E+00	9.853E-01	6.475E-01
125	2.375E+00	2.928E+00	2.559E+00	1.971E+00	1.410E+00	9.574E-01	6.307E-01
126	2.211E+00	2.784E+00	2.454E+00	1.897E+00	1.358E+00	9.218E-01	6.082E-01
127	2.032E+00	2.623E+00	2.334E+00	1.811E+00	1.297E+00	8.791E-01	5.803E-01
128	1.844E+00	2.448E+00	2.201E+00	1.714E+00	1.227E+00	8.297E-01	5.472E-01
129	1.648E+00	2.262E+00	2.056E+00	1.606E+00	1.148E+00	7.742E-01	5.093E-01
130	1.447E+00	2.066E+00	1.901E+00	1.490E+00	1.063E+00	7.135E-01	4.674E-01
131	1.246E+00	1.863E+00	1.738E+00	1.366E+00	9.729E-01	6.485E-01	4.221E-01
132	1.049E+00	1.657E+00	1.569E+00	1.238E+00	8.780E-01	5.804E-01	3.743E-01

Table 5 (continued)

Angle	30 eV	40 eV	50 eV	60 eV	70 eV	80 eV	90 eV
133	8.583E-01	1.450E+00	1.397E+00	1.106E+00	7.805E-01	5.102E-01	3.248E-01
134	6.792E-01	1.246E+00	1.224E+00	9.723E-01	6.819E-01	4.394E-01	2.749E-01
135	5.156E-01	1.047E+00	1.053E+00	8.395E-01	5.839E-01	3.693E-01	2.255E-01
136	3.717E-01	8.569E-01	8.856E-01	7.094E-01	4.882E-01	3.013E-01	1.779E-01
137	2.514E-01	6.794E-01	7.256E-01	5.844E-01	3.967E-01	2.369E-01	1.334E-01
138	1.590E-01	5.173E-01	5.753E-01	4.664E-01	3.113E-01	1.778E-01	9.322E-02
139	9.823E-02	3.739E-01	4.373E-01	3.579E-01	2.336E-01	1.254E-01	5.873E-02
140	7.280E-02	2.522E-01	3.141E-01	2.609E-01	1.656E-01	8.120E-02	3.123E-02
141	8.616E-02	1.551E-01	2.081E-01	1.774E-01	1.090E-01	4.678E-02	1.200E-02
142	1.415E-01	8.535E-02	1.217E-01	1.095E-01	6.543E-02	2.355E-02	2.303E-03
143	2.416E-01	4.542E-02	5.709E-02	5.898E-02	3.652E-02	1.286E-02	3.321E-03
144	3.888E-01	3.750E-02	1.612E-02	2.753E-02	2.371E-02	1.597E-02	1.616E-02
145	5.853E-01	6.353E-02	5.537E-04	1.667E-02	2.830E-02	3.401E-02	4.183E-02
146	8.326E-01	1.251E-01	1.188E-02	2.772E-02	5.144E-02	6.798E-02	8.122E-02
147	1.132E+00	2.235E-01	5.130E-02	6.175E-02	9.406E-02	1.187E-01	1.351E-01
148	1.483E+00	3.595E-01	1.198E-01	1.196E-01	1.569E-01	1.869E-01	2.040E-01
149	1.887E+00	5.336E-01	2.178E-01	2.019E-01	2.406E-01	2.730E-01	2.885E-01
150	2.344E+00	7.460E-01	3.459E-01	3.090E-01	3.453E-01	3.773E-01	3.888E-01
151	2.851E+00	9.963E-01	5.038E-01	4.409E-01	4.712E-01	4.998E-01	5.049E-01
152	3.407E+00	1.284E+00	6.912E-01	5.973E-01	6.181E-01	6.405E-01	6.369E-01
153	4.011E+00	1.607E+00	9.075E-01	7.779E-01	7.855E-01	7.989E-01	7.843E-01
154	4.659E+00	1.965E+00	1.152E+00	9.817E-01	9.748E-01	9.746E-01	9.468E-01
155	5.349E+00	2.356E+00	1.422E+00	1.208E+00	1.179E+00	1.167E+00	1.124E+00
156	6.076E+00	2.776E+00	1.717E+00	1.454E+00	1.403E+00	1.374E+00	1.314E+00
157	6.837E+00	3.224E+00	2.035E+00	1.720E+00	1.644E+00	1.596E+00	1.516E+00
158	7.627E+00	3.697E+00	2.373E+00	2.004E+00	1.899E+00	1.830E+00	1.730E+00
159	8.442E+00	4.190E+00	2.730E+00	2.302E+00	2.167E+00	2.076E+00	1.954E+00
160	9.274E+00	4.701E+00	3.101E+00	2.614E+00	2.446E+00	2.330E+00	2.186E+00
161	1.012E+01	5.226E+00	3.485E+00	2.936E+00	2.734E+00	2.593E+00	2.424E+00
162	1.097E+01	5.759E+00	3.878E+00	3.265E+00	3.029E+00	2.861E+00	2.667E+00
163	1.183E+01	6.298E+00	4.276E+00	3.600E+00	3.328E+00	3.132E+00	2.913E+00
164	1.268E+01	6.838E+00	4.676E+00	3.937E+00	3.628E+00	3.405E+00	3.159E+00
165	1.351E+01	7.374E+00	5.076E+00	4.273E+00	3.927E+00	3.676E+00	3.405E+00
166	1.433E+01	7.902E+00	5.470E+00	4.605E+00	4.223E+00	3.943E+00	3.647E+00
167	1.513E+01	8.417E+00	5.856E+00	4.930E+00	4.512E+00	4.205E+00	3.884E+00
168	1.590E+01	8.914E+00	6.231E+00	5.246E+00	4.793E+00	4.459E+00	4.113E+00
169	1.663E+01	9.391E+00	6.590E+00	5.549E+00	5.062E+00	4.702E+00	4.333E+00
170	1.732E+01	9.841E+00	6.930E+00	5.836E+00	5.317E+00	4.932E+00	4.541E+00
171	1.796E+01	1.026E+01	7.249E+00	6.105E+00	5.556E+00	5.148E+00	4.735E+00
172	1.854E+01	1.065E+01	7.542E+00	6.353E+00	5.776E+00	5.346E+00	4.915E+00
173	1.907E+01	1.100E+01	7.808E+00	6.577E+00	5.976E+00	5.527E+00	5.078E+00
174	1.954E+01	1.131E+01	8.044E+00	6.777E+00	6.153E+00	5.686E+00	5.222E+00
175	1.995E+01	1.158E+01	8.248E+00	6.949E+00	6.305E+00	5.824E+00	5.346E+00
176	2.028E+01	1.180E+01	8.418E+00	7.092E+00	6.432E+00	5.939E+00	5.450E+00
177	2.055E+01	1.198E+01	8.551E+00	7.205E+00	6.532E+00	6.029E+00	5.531E+00
178	2.074E+01	1.210E+01	8.647E+00	7.286E+00	6.605E+00	6.094E+00	5.590E+00
179	2.085E+01	1.218E+01	8.705E+00	7.335E+00	6.648E+00	6.133E+00	5.626E+00
180	2.089E+01	1.220E+01	8.725E+00	7.352E+00	6.663E+00	6.146E+00	5.637E+00
Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
0	1.556E+02	1.723E+02	1.911E+02	2.064E+02	2.185E+02	2.394E+02	2.535E+02
1	1.437E+02	1.565E+02	1.717E+02	1.840E+02	1.933E+02	2.088E+02	2.206E+02
2	1.236E+02	1.307E+02	1.417E+02	1.491E+02	1.547E+02	1.628E+02	1.679E+02
3	1.079E+02	1.120E+02	1.195E+02	1.251E+02	1.286E+02	1.324E+02	1.334E+02
4	9.421E+01	9.586E+01	1.015E+02	1.051E+02	1.069E+02	1.073E+02	1.054E+02
5	8.218E+01	8.221E+01	8.621E+01	8.824E+01	8.864E+01	8.621E+01	8.216E+01
6	7.159E+01	7.045E+01	7.308E+01	7.378E+01	7.301E+01	6.844E+01	6.308E+01
7	6.222E+01	6.016E+01	6.165E+01	6.128E+01	5.964E+01	5.370E+01	4.783E+01
8	5.388E+01	5.112E+01	5.169E+01	5.052E+01	4.829E+01	4.175E+01	3.601E+01
9	4.643E+01	4.317E+01	4.305E+01	4.134E+01	3.882E+01	3.228E+01	2.707E+01
10	3.978E+01	3.620E+01	3.562E+01	3.362E+01	3.103E+01	2.492E+01	2.046E+01
11	3.384E+01	3.012E+01	2.929E+01	2.722E+01	2.474E+01	1.931E+01	1.563E+01
12	2.855E+01	2.486E+01	2.397E+01	2.199E+01	1.974E+01	1.509E+01	1.213E+01

(continued on next page)

Table 5 (continued)

Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
13	2.386E+01	2.037E+01	1.956E+01	1.778E+01	1.581E+01	1.193E+01	9.579E+00
14	1.973E+01	1.658E+01	1.595E+01	1.443E+01	1.275E+01	9.572E+00	7.710E+00
15	1.612E+01	1.342E+01	1.304E+01	1.179E+01	1.040E+01	7.807E+00	6.317E+00
16	1.299E+01	1.083E+01	1.072E+01	9.728E+00	8.589E+00	6.473E+00	5.258E+00
17	1.031E+01	8.741E+00	8.895E+00	8.131E+00	7.197E+00	5.448E+00	4.435E+00
18	8.042E+00	7.088E+00	7.474E+00	6.895E+00	6.121E+00	4.646E+00	3.782E+00
19	6.150E+00	5.808E+00	6.379E+00	5.936E+00	5.280E+00	4.006E+00	3.253E+00
20	4.600E+00	4.841E+00	5.540E+00	5.187E+00	4.612E+00	3.484E+00	2.817E+00
21	3.359E+00	4.134E+00	4.902E+00	4.595E+00	4.072E+00	3.051E+00	2.453E+00
22	2.392E+00	3.637E+00	4.414E+00	4.119E+00	3.626E+00	2.686E+00	2.148E+00
23	1.667E+00	3.305E+00	4.038E+00	3.728E+00	3.249E+00	2.374E+00	1.890E+00
24	1.151E+00	3.100E+00	3.743E+00	3.397E+00	2.924E+00	2.106E+00	1.671E+00
25	8.126E−01	2.989E+00	3.505E+00	3.111E+00	2.640E+00	1.874E+00	1.485E+00
26	6.237E−01	2.944E+00	3.305E+00	2.857E+00	2.387E+00	1.672E+00	1.326E+00
27	5.568E−01	2.942E+00	3.129E+00	2.627E+00	2.160E+00	1.497E+00	1.191E+00
28	5.868E−01	2.964E+00	2.968E+00	2.416E+00	1.955E+00	1.345E+00	1.075E+00
29	6.909E−01	2.996E+00	2.815E+00	2.219E+00	1.769E+00	1.212E+00	9.765E−01
30	8.487E−01	3.025E+00	2.664E+00	2.035E+00	1.600E+00	1.097E+00	8.914E−01
31	1.042E+00	3.043E+00	2.514E+00	1.862E+00	1.446E+00	9.972E−01	8.180E−01
32	1.255E+00	3.044E+00	2.362E+00	1.699E+00	1.307E+00	9.104E−01	7.543E−01
33	1.475E+00	3.025E+00	2.209E+00	1.545E+00	1.182E+00	8.350E−01	6.987E−01
34	1.689E+00	2.982E+00	2.055E+00	1.401E+00	1.069E+00	7.695E−01	6.499E−01
35	1.890E+00	2.916E+00	1.900E+00	1.267E+00	9.672E−01	7.125E−01	6.068E−01
36	2.069E+00	2.826E+00	1.746E+00	1.143E+00	8.766E−01	6.629E−01	5.684E−01
37	2.221E+00	2.714E+00	1.593E+00	1.028E+00	7.962E−01	6.195E−01	5.340E−01
38	2.343E+00	2.583E+00	1.443E+00	9.226E−01	7.253E−01	5.815E−01	5.029E−01
39	2.432E+00	2.434E+00	1.298E+00	8.267E−01	6.631E−01	5.482E−01	4.746E−01
40	2.487E+00	2.271E+00	1.158E+00	7.403E−01	6.089E−01	5.187E−01	4.487E−01
41	2.509E+00	2.097E+00	1.025E+00	6.631E−01	5.622E−01	4.926E−01	4.248E−01
42	2.497E+00	1.915E+00	9.004E−01	5.949E−01	5.223E−01	4.693E−01	4.028E−01
43	2.455E+00	1.728E+00	7.843E−01	5.354E−01	4.885E−01	4.485E−01	3.823E−01
44	2.384E+00	1.540E+00	6.777E−01	4.843E−01	4.604E−01	4.297E−01	3.631E−01
45	2.288E+00	1.354E+00	5.814E−01	4.413E−01	4.374E−01	4.126E−01	3.452E−01
46	2.171E+00	1.172E+00	4.958E−01	4.060E−01	4.189E−01	3.969E−01	3.283E−01
47	2.034E+00	9.978E−01	4.212E−01	3.778E−01	4.043E−01	3.824E−01	3.124E−01
48	1.884E+00	8.332E−01	3.577E−01	3.564E−01	3.933E−01	3.689E−01	2.973E−01
49	1.723E+00	6.805E−01	3.055E−01	3.411E−01	3.853E−01	3.562E−01	2.831E−01
50	1.555E+00	5.416E−01	2.643E−01	3.315E−01	3.798E−01	3.441E−01	2.695E−01
51	1.383E+00	4.178E−01	2.338E−01	3.270E−01	3.765E−01	3.325E−01	2.566E−01
52	1.213E+00	3.104E−01	2.137E−01	3.270E−01	3.749E−01	3.213E−01	2.443E−01
53	1.045E+00	2.202E−01	2.034E−01	3.309E−01	3.745E−01	3.103E−01	2.325E−01
54	8.844E−01	1.476E−01	2.024E−01	3.382E−01	3.751E−01	2.995E−01	2.212E−01
55	7.326E−01	9.288E−02	2.098E−01	3.481E−01	3.762E−01	2.888E−01	2.105E−01
56	5.921E−01	5.591E−02	2.248E−01	3.601E−01	3.775E−01	2.781E−01	2.002E−01
57	4.647E−01	3.628E−02	2.466E−01	3.736E−01	3.787E−01	2.675E−01	1.903E−01
58	3.520E−01	3.332E−02	2.742E−01	3.880E−01	3.795E−01	2.568E−01	1.809E−01
59	2.550E−01	4.611E−02	3.066E−01	4.028E−01	3.796E−01	2.461E−01	1.718E−01
60	1.744E−01	7.352E−02	3.428E−01	4.174E−01	3.789E−01	2.353E−01	1.632E−01
61	1.107E−01	1.142E−01	3.819E−01	4.314E−01	3.770E−01	2.244E−01	1.551E−01
62	6.370E−02	1.668E−01	4.227E−01	4.442E−01	3.739E−01	2.136E−01	1.473E−01
63	3.322E−02	2.296E−01	4.643E−01	4.555E−01	3.695E−01	2.027E−01	1.400E−01
64	1.861E−02	3.009E−01	5.058E−01	4.649E−01	3.636E−01	1.919E−01	1.330E−01
65	1.898E−02	3.790E−01	5.461E−01	4.720E−01	3.562E−01	1.811E−01	1.265E−01
66	3.322E−02	4.621E−01	5.845E−01	4.766E−01	3.472E−01	1.705E−01	1.205E−01
67	6.002E−02	5.483E−01	6.200E−01	4.785E−01	3.366E−01	1.600E−01	1.149E−01
68	9.791E−02	6.358E−01	6.521E−01	4.775E−01	3.246E−01	1.498E−01	1.098E−01
69	1.453E−01	7.230E−01	6.800E−01	4.735E−01	3.111E−01	1.399E−01	1.051E−01
70	2.005E−01	8.082E−01	7.032E−01	4.664E−01	2.963E−01	1.304E−01	1.009E−01
71	2.618E−01	8.897E−01	7.213E−01	4.564E−01	2.803E−01	1.214E−01	9.722E−02
72	3.275E−01	9.662E−01	7.339E−01	4.433E−01	2.632E−01	1.128E−01	9.399E−02
73	3.958E−01	1.036E+00	7.407E−01	4.275E−01	2.453E−01	1.049E−01	9.124E−02
74	4.651E−01	1.099E+00	7.417E−01	4.090E−01	2.267E−01	9.761E−02	8.897E−02

Table 5 (continued)

Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
75	5.337E-01	1.153E+00	7.367E-01	3.880E-01	2.077E-01	9.102E-02	8.716E-02
76	6.003E-01	1.198E+00	7.259E-01	3.649E-01	1.884E-01	8.520E-02	8.582E-02
77	6.634E-01	1.233E+00	7.094E-01	3.400E-01	1.692E-01	8.020E-02	8.492E-02
78	7.218E-01	1.257E+00	6.876E-01	3.135E-01	1.502E-01	7.604E-02	8.444E-02
79	7.745E-01	1.271E+00	6.607E-01	2.859E-01	1.317E-01	7.278E-02	8.438E-02
80	8.206E-01	1.274E+00	6.292E-01	2.576E-01	1.140E-01	7.041E-02	8.470E-02
81	8.594E-01	1.267E+00	5.936E-01	2.289E-01	9.730E-02	6.898E-02	8.537E-02
82	8.904E-01	1.249E+00	5.546E-01	2.004E-01	8.182E-02	6.846E-02	8.636E-02
83	9.133E-01	1.222E+00	5.126E-01	1.723E-01	6.779E-02	6.887E-02	8.765E-02
84	9.278E-01	1.185E+00	4.685E-01	1.452E-01	5.542E-02	7.017E-02	8.918E-02
85	9.341E-01	1.139E+00	4.229E-01	1.194E-01	4.488E-02	7.235E-02	9.092E-02
86	9.324E-01	1.086E+00	3.765E-01	9.536E-02	3.635E-02	7.536E-02	9.282E-02
87	9.229E-01	1.026E+00	3.302E-01	7.346E-02	2.995E-02	7.915E-02	9.485E-02
88	9.061E-01	9.605E-01	2.845E-01	5.403E-02	2.581E-02	8.367E-02	9.695E-02
89	8.827E-01	8.904E-01	2.404E-01	3.740E-02	2.399E-02	8.885E-02	9.908E-02
90	8.535E-01	8.168E-01	1.984E-01	2.384E-02	2.456E-02	9.461E-02	1.012E-01
91	8.191E-01	7.410E-01	1.592E-01	1.359E-02	2.754E-02	1.009E-01	1.032E-01
92	7.805E-01	6.643E-01	1.235E-01	6.849E-03	3.291E-02	1.075E-01	1.052E-01
93	7.386E-01	5.877E-01	9.188E-02	3.762E-03	4.063E-02	1.145E-01	1.070E-01
94	6.943E-01	5.124E-01	6.477E-02	4.424E-03	5.063E-02	1.217E-01	1.085E-01
95	6.487E-01	4.396E-01	4.264E-02	8.877E-03	6.279E-02	1.289E-01	1.099E-01
96	6.026E-01	3.703E-01	2.586E-02	1.711E-02	7.699E-02	1.362E-01	1.109E-01
97	5.569E-01	3.054E-01	1.471E-02	2.906E-02	9.305E-02	1.433E-01	1.116E-01
98	5.126E-01	2.460E-01	9.378E-03	4.461E-02	1.108E-01	1.503E-01	1.120E-01
99	4.704E-01	1.926E-01	9.977E-03	6.359E-02	1.300E-01	1.568E-01	1.120E-01
100	4.311E-01	1.460E-01	1.652E-02	8.578E-02	1.504E-01	1.630E-01	1.116E-01
101	3.952E-01	1.067E-01	2.895E-02	1.109E-01	1.717E-01	1.685E-01	1.108E-01
102	3.632E-01	7.521E-02	4.710E-02	1.387E-01	1.938E-01	1.735E-01	1.095E-01
103	3.357E-01	5.169E-02	7.072E-02	1.687E-01	2.162E-01	1.777E-01	1.078E-01
104	3.129E-01	3.632E-02	9.950E-02	2.007E-01	2.387E-01	1.811E-01	1.056E-01
105	2.949E-01	2.911E-02	1.330E-01	2.342E-01	2.610E-01	1.836E-01	1.030E-01
106	2.818E-01	2.993E-02	1.708E-01	2.687E-01	2.828E-01	1.852E-01	9.995E-02
107	2.737E-01	3.854E-02	2.124E-01	3.038E-01	3.038E-01	1.858E-01	9.646E-02
108	2.702E-01	5.456E-02	2.570E-01	3.390E-01	3.237E-01	1.854E-01	9.257E-02
109	2.711E-01	7.751E-02	3.042E-01	3.739E-01	3.423E-01	1.839E-01	8.830E-02
110	2.760E-01	1.068E-01	3.532E-01	4.079E-01	3.591E-01	1.813E-01	8.368E-02
111	2.845E-01	1.417E-01	4.033E-01	4.407E-01	3.741E-01	1.777E-01	7.875E-02
112	2.960E-01	1.816E-01	4.539E-01	4.717E-01	3.870E-01	1.730E-01	7.356E-02
113	3.099E-01	2.255E-01	5.040E-01	5.006E-01	3.976E-01	1.673E-01	6.816E-02
114	3.255E-01	2.726E-01	5.531E-01	5.268E-01	4.057E-01	1.607E-01	6.259E-02
115	3.422E-01	3.220E-01	6.004E-01	5.501E-01	4.111E-01	1.531E-01	5.693E-02
116	3.592E-01	3.728E-01	6.453E-01	5.701E-01	4.139E-01	1.447E-01	5.122E-02
117	3.758E-01	4.239E-01	6.870E-01	5.865E-01	4.138E-01	1.355E-01	4.554E-02
118	3.914E-01	4.744E-01	7.249E-01	5.990E-01	4.110E-01	1.257E-01	3.997E-02
119	4.052E-01	5.235E-01	7.586E-01	6.075E-01	4.053E-01	1.154E-01	3.457E-02
120	4.166E-01	5.703E-01	7.874E-01	6.119E-01	3.969E-01	1.047E-01	2.941E-02
121	4.250E-01	6.139E-01	8.110E-01	6.119E-01	3.858E-01	9.369E-02	2.459E-02
122	4.301E-01	6.536E-01	8.290E-01	6.078E-01	3.722E-01	8.258E-02	2.017E-02
123	4.313E-01	6.887E-01	8.411E-01	5.993E-01	3.562E-01	7.150E-02	1.624E-02
124	4.283E-01	7.185E-01	8.472E-01	5.867E-01	3.380E-01	6.062E-02	1.288E-02
125	4.211E-01	7.426E-01	8.471E-01	5.702E-01	3.180E-01	5.011E-02	1.016E-02
126	4.094E-01	7.606E-01	8.408E-01	5.499E-01	2.962E-01	4.015E-02	8.164E-03
127	3.934E-01	7.722E-01	8.284E-01	5.261E-01	2.732E-01	3.091E-02	6.966E-03
128	3.731E-01	7.772E-01	8.101E-01	4.991E-01	2.492E-01	2.256E-02	6.638E-03
129	3.490E-01	7.755E-01	7.861E-01	4.694E-01	2.245E-01	1.529E-02	7.251E-03
130	3.213E-01	7.673E-01	7.568E-01	4.374E-01	1.996E-01	9.265E-03	8.870E-03
131	2.907E-01	7.525E-01	7.225E-01	4.036E-01	1.749E-01	4.665E-03	1.155E-02
132	2.578E-01	7.316E-01	6.839E-01	3.684E-01	1.508E-01	1.652E-03	1.536E-02
133	2.233E-01	7.049E-01	6.413E-01	3.324E-01	1.276E-01	3.866E-04	2.034E-02
134	1.881E-01	6.728E-01	5.955E-01	2.961E-01	1.059E-01	1.018E-03	2.654E-02
135	1.531E-01	6.360E-01	5.472E-01	2.603E-01	8.608E-02	3.688E-03	3.399E-02
136	1.194E-01	5.952E-01	4.970E-01	2.254E-01	6.853E-02	8.525E-03	4.273E-02
137	8.802E-02	5.509E-01	4.458E-01	1.922E-01	5.368E-02	1.564E-02	5.278E-02

(continued on next page)

Table 5 (continued)

Angle	100 eV	200 eV	300 eV	400 eV	500 eV	750 eV	1000 eV
138	6.006E-02	5.041E-01	3.942E-01	1.611E-01	4.192E-02	2.515E-02	6.415E-02
139	3.668E-02	4.556E-01	3.432E-01	1.327E-01	3.365E-02	3.712E-02	7.685E-02
140	1.903E-02	4.061E-01	2.935E-01	1.077E-01	2.921E-02	5.163E-02	9.088E-02
141	8.255E-03	3.568E-01	2.459E-01	8.664E-02	2.893E-02	6.873E-02	1.062E-01
142	5.461E-03	3.084E-01	2.012E-01	6.997E-02	3.310E-02	8.846E-02	1.229E-01
143	1.172E-02	2.618E-01	1.601E-01	5.817E-02	4.197E-02	1.108E-01	1.408E-01
144	2.803E-02	2.180E-01	1.233E-01	5.170E-02	5.576E-02	1.358E-01	1.600E-01
145	5.531E-02	1.777E-01	9.159E-02	5.092E-02	7.464E-02	1.634E-01	1.804E-01
146	9.438E-02	1.418E-01	6.546E-02	5.615E-02	9.873E-02	1.936E-01	2.019E-01
147	1.459E-01	1.111E-01	4.546E-02	6.766E-02	1.281E-01	2.262E-01	2.245E-01
148	2.106E-01	8.621E-02	3.207E-02	8.563E-02	1.628E-01	2.612E-01	2.482E-01
149	2.887E-01	6.770E-02	2.567E-02	1.102E-01	2.028E-01	2.986E-01	2.728E-01
150	3.807E-01	5.611E-02	2.654E-02	1.414E-01	2.479E-01	3.381E-01	2.982E-01
151	4.865E-01	5.184E-02	3.489E-02	1.792E-01	2.982E-01	3.796E-01	3.244E-01
152	6.062E-01	5.520E-02	5.084E-02	2.236E-01	3.533E-01	4.230E-01	3.513E-01
153	7.396E-01	6.639E-02	7.438E-02	2.743E-01	4.131E-01	4.680E-01	3.788E-01
154	8.861E-01	8.548E-02	1.054E-01	3.311E-01	4.772E-01	5.146E-01	4.067E-01
155	1.045E+00	1.124E-01	1.438E-01	3.936E-01	5.453E-01	5.624E-01	4.350E-01
156	1.217E+00	1.471E-01	1.893E-01	4.616E-01	6.171E-01	6.113E-01	4.635E-01
157	1.399E+00	1.893E-01	2.414E-01	5.346E-01	6.922E-01	6.609E-01	4.922E-01
158	1.591E+00	2.385E-01	2.998E-01	6.120E-01	7.699E-01	7.111E-01	5.208E-01
159	1.792E+00	2.944E-01	3.639E-01	6.932E-01	8.500E-01	7.617E-01	5.493E-01
160	2.000E+00	3.563E-01	4.330E-01	7.778E-01	9.318E-01	8.122E-01	5.776E-01
161	2.214E+00	4.236E-01	5.065E-01	8.648E-01	1.015E+00	8.626E-01	6.055E-01
162	2.432E+00	4.955E-01	5.836E-01	9.538E-01	1.098E+00	9.124E-01	6.329E-01
163	2.653E+00	5.712E-01	6.635E-01	1.044E+00	1.182E+00	9.615E-01	6.596E-01
164	2.874E+00	6.497E-01	7.454E-01	1.134E+00	1.265E+00	1.010E+00	6.856E-01
165	3.095E+00	7.303E-01	8.284E-01	1.224E+00	1.347E+00	1.056E+00	7.107E-01
166	3.312E+00	8.119E-01	9.115E-01	1.313E+00	1.427E+00	1.101E+00	7.349E-01
167	3.525E+00	8.934E-01	9.939E-01	1.400E+00	1.504E+00	1.145E+00	7.579E-01
168	3.731E+00	9.740E-01	1.075E+00	1.484E+00	1.579E+00	1.186E+00	7.797E-01
169	3.929E+00	1.053E+00	1.153E+00	1.565E+00	1.650E+00	1.225E+00	8.001E-01
170	4.116E+00	1.128E+00	1.228E+00	1.641E+00	1.717E+00	1.261E+00	8.192E-01
171	4.291E+00	1.200E+00	1.298E+00	1.713E+00	1.779E+00	1.295E+00	8.367E-01
172	4.452E+00	1.267E+00	1.364E+00	1.778E+00	1.836E+00	1.325E+00	8.526E-01
173	4.599E+00	1.328E+00	1.423E+00	1.838E+00	1.887E+00	1.353E+00	8.668E-01
174	4.728E+00	1.382E+00	1.476E+00	1.891E+00	1.933E+00	1.377E+00	8.793E-01
175	4.840E+00	1.430E+00	1.522E+00	1.936E+00	1.972E+00	1.397E+00	8.899E-01
176	4.933E+00	1.469E+00	1.561E+00	1.974E+00	2.004E+00	1.414E+00	8.987E-01
177	5.007E+00	1.501E+00	1.591E+00	2.004E+00	2.030E+00	1.428E+00	9.056E-01
178	5.060E+00	1.524E+00	1.613E+00	2.025E+00	2.048E+00	1.437E+00	9.105E-01
179	5.092E+00	1.537E+00	1.626E+00	2.038E+00	2.059E+00	1.443E+00	9.135E-01
180	5.102E+00	1.542E+00	1.630E+00	2.043E+00	2.063E+00	1.445E+00	9.145E-01

Table 6

Total cross sections for elastic electron scattering from inert gases. See page 17 for Explanation of Tables

E	He	Ne	Ar	Kr	Xe
0.01	1.834E+01	7.373E-01	2.988E+01	1.145E+02	4.042E+02
0.02	1.869E+01	1.013E+00	2.373E+01	9.141E+01	3.069E+02
0.03	1.894E+01	1.234E+00	1.965E+01	7.553E+01	2.455E+02
0.04	1.914E+01	1.353E+00	1.663E+01	6.601E+01	2.023E+02
0.05	1.931E+01	1.486E+00	1.428E+01	5.678E+01	1.701E+02
0.06	1.945E+01	1.598E+00	1.238E+01	5.125E+01	1.451E+02
0.07	1.958E+01	1.719E+00	1.082E+01	4.521E+01	1.252E+02
0.08	1.969E+01	1.892E+00	9.507E+00	4.030E+01	1.091E+02
0.09	1.979E+01	1.940E+00	8.392E+00	3.596E+01	9.863E+01
0.1	1.989E+01	2.076E+00	7.437E+00	3.283E+01	8.831E+01
0.2	2.053E+01	3.041E+00	2.302E+00	1.819E+01	4.539E+01
0.3	2.090E+01	3.639E+00	1.051E+00	9.875E+00	2.702E+01
0.4	2.114E+01	4.015E+00	1.007E+00	6.238E+00	1.498E+01
0.5	2.130E+01	4.446E+00	1.439E+00	3.709E+00	8.551E+00
0.6	2.141E+01	4.730E+00	2.079E+00	2.650E+00	5.667E+00
0.7	2.149E+01	5.033E+00	3.014E+00	2.287E+00	5.492E+00
0.8	2.153E+01	5.226E+00	4.179E+00	2.907E+00	5.585E+00
0.9	2.155E+01	5.599E+00	5.047E+00	3.732E+00	6.622E+00
1	2.156E+01	5.937E+00	5.901E+00	4.482E+00	8.636E+00
2.5	2.077E+01	7.557E+00	1.789E+01	2.630E+01	4.074E+01
5	1.882E+01	9.287E+00	3.600E+01	6.494E+01	1.296E+02
7.5	1.708E+01	1.074E+01	4.967E+01	8.690E+01	1.552E+02
10	1.560E+01	1.213E+01	6.778E+01	9.280E+01	1.310E+02
15	1.321E+01	1.303E+01	8.635E+01	9.164E+01	1.126E+02
20	1.134E+01	1.320E+01	7.041E+01	8.150E+01	1.099E+02
30	8.606E+00	1.295E+01	4.726E+01	6.337E+01	6.636E+01
40	6.753E+00	1.235E+01	3.868E+01	5.215E+01	3.737E+01
50	5.454E+00	1.182E+01	3.296E+01	4.443E+01	2.770E+01
60	4.513E+00	1.111E+01	2.891E+01	3.876E+01	2.345E+01
70	3.809E+00	1.040E+01	2.591E+01	3.445E+01	2.160E+01
80	3.270E+00	9.744E+00	2.360E+01	3.108E+01	2.083E+01
90	2.846E+00	9.149E+00	2.177E+01	2.842E+01	2.054E+01
100	2.508E+00	8.619E+00	2.028E+01	2.627E+01	2.048E+01
150	1.517E+00	6.757E+00	1.561E+01	1.994E+01	2.070E+01
200	1.058E+00	5.607E+00	1.320E+01	1.673E+01	2.019E+01
250	8.040E-01	4.846E+00	1.161E+01	1.486E+01	1.940E+01
300	6.455E-01	4.301E+00	1.048E+01	1.349E+01	1.841E+01
350	5.384E-01	3.889E+00	9.625E+00	1.250E+01	1.751E+01
400	4.616E-01	3.563E+00	8.934E+00	1.166E+01	1.661E+01
450	4.040E-01	3.298E+00	8.361E+00	1.101E+01	1.585E+01
500	3.592E-01	3.076E+00	7.875E+00	1.042E+01	1.511E+01
550	3.235E-01	2.886E+00	7.454E+00	9.937E+00	1.450E+01
600	2.943E-01	2.723E+00	7.086E+00	9.498E+00	1.392E+01
650	2.700E-01	2.579E+00	6.760E+00	9.107E+00	1.340E+01
700	2.495E-01	2.451E+00	6.468E+00	8.757E+00	1.293E+01
750	2.318E-01	2.337E+00	6.205E+00	8.440E+00	1.251E+01
800	2.166E-01	2.235E+00	5.966E+00	8.152E+00	1.212E+01
850	2.032E-01	2.142E+00	5.749E+00	7.889E+00	1.176E+01
900	1.915E-01	2.057E+00	5.549E+00	7.647E+00	1.143E+01
950	1.810E-01	1.979E+00	5.365E+00	7.424E+00	1.113E+01
1000	1.716E-01	1.907E+00	5.195E+00	7.217E+00	1.084E+01

Table 7

Momentum transfer cross sections for elastic electron scattering from inert gases. See page 17 for Explanation of Tables

<i>E</i>	He	Ne	Ar	Kr	Xe
0.01	1.857E+01	8.120E−01	2.801E+01	1.080E+02	3.844E+02
0.02	1.903E+01	1.127E+00	2.145E+01	8.367E+01	2.837E+02
0.03	1.936E+01	1.377E+00	1.717E+01	6.726E+01	2.211E+02
0.04	1.963E+01	1.519E+00	1.405E+01	5.737E+01	1.776E+02
0.05	1.986E+01	1.674E+00	1.166E+01	4.811E+01	1.455E+02
0.06	2.006E+01	1.805E+00	9.759E+00	4.246E+01	1.210E+02
0.07	2.024E+01	1.943E+00	8.216E+00	3.653E+01	1.017E+02
0.08	2.040E+01	2.133E+00	6.942E+00	3.177E+01	8.617E+01
0.09	2.054E+01	2.313E+00	5.878E+00	2.762E+01	7.353E+01
0.1	2.068E+01	2.400E+00	4.983E+00	2.461E+01	6.308E+01
0.2	2.167E+01	3.396E+00	7.979E−01	1.076E+01	2.300E+01
0.3	2.231E+01	4.043E+00	3.258E−01	4.149E+00	1.146E+01
0.4	2.277E+01	4.460E+00	8.358E−01	1.730E+00	3.932E+00
0.5	2.312E+01	4.900E+00	1.630E+00	6.475E−01	1.790E+00
0.6	2.340E+01	5.150E+00	2.480E+00	5.941E−01	1.447E+00
0.7	2.362E+01	5.496E+00	3.541E+00	1.016E+00	1.790E+00
0.8	2.380E+01	5.720E+00	4.750E+00	1.736E+00	2.391E+00
0.9	2.394E+01	6.018E+00	5.527E+00	2.604E+00	4.429E+00
1	2.406E+01	6.160E+00	6.231E+00	3.472E+00	5.888E+00
2.5	2.412E+01	7.050E+00	1.326E+01	1.995E+01	4.348E+01
5	2.200E+01	7.690E+00	2.541E+01	5.841E+01	1.081E+02
7.5	1.939E+01	8.130E+00	4.328E+01	6.478E+01	9.770E+01
10	1.688E+01	8.700E+00	5.920E+01	6.280E+01	6.133E+01
15	1.269E+01	9.814E+00	5.158E+01	4.471E+01	3.327E+01
20	9.649E+00	1.043E+01	3.349E+01	3.065E+01	2.604E+01
30	5.928E+00	1.070E+01	2.144E+01	1.661E+01	3.696E+01
40	3.952E+00	1.052E+01	1.792E+01	1.089E+01	2.712E+01
50	2.819E+00	9.816E+00	1.580E+01	8.345E+00	1.776E+01
60	2.119E+00	8.954E+00	1.421E+01	7.227E+00	1.365E+01
70	1.658E+00	8.108E+00	1.290E+01	6.765E+00	1.130E+01
80	1.339E+00	7.335E+00	1.179E+01	6.596E+00	9.930E+00
90	1.108E+00	6.650E+00	1.083E+01	6.549E+00	9.105E+00
100	9.351E−01	6.048E+00	9.986E+00	6.542E+00	8.591E+00
150	4.823E−01	3.988E+00	7.000E+00	6.377E+00	7.612E+00
200	2.983E−01	2.846E+00	5.238E+00	5.865E+00	7.084E+00
250	2.044E−01	2.153E+00	4.100E+00	5.277E+00	6.552E+00
300	1.497E−01	1.697E+00	3.318E+00	4.710E+00	6.008E+00
350	1.148E−01	1.379E+00	2.755E+00	4.211E+00	5.499E+00
400	9.115E−02	1.147E+00	2.333E+00	3.776E+00	5.031E+00
450	7.428E−02	9.726E−01	2.007E+00	3.404E+00	4.615E+00
500	6.180E−02	8.370E−01	1.750E+00	3.083E+00	4.243E+00
550	5.230E−02	7.294E−01	1.543E+00	2.807E+00	3.916E+00
600	4.489E−02	6.423E−01	1.373E+00	2.568E+00	3.624E+00
650	3.899E−02	5.707E−01	1.231E+00	2.360E+00	3.366E+00
700	3.421E−02	5.110E−01	1.112E+00	2.177E+00	3.135E+00
750	3.029E−02	4.606E−01	1.011E+00	2.016E+00	2.929E+00
800	2.702E−02	4.177E−01	9.236E−01	1.874E+00	2.744E+00
850	2.426E−02	3.808E−01	8.480E−01	1.747E+00	2.577E+00
900	2.192E−02	3.488E−01	7.820E−01	1.634E+00	2.426E+00
950	1.991E−02	3.208E−01	7.240E−01	1.532E+00	2.289E+00
1000	1.817E−02	2.962E−01	6.726E−01	1.440E+00	2.165E+00