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BISTATIC SCATTERING FROM CONDUCTING CALIBRATION SPHERES

Joseph P. DiBeneditto, Major, USAF

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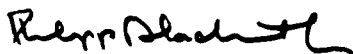
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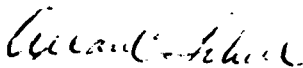
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19. ABSTRACT (Continue on reverse if necessary and identify by block number) This handbook contains a comprehensive set of tables for the electromagnetic bistatic scattering from perfectly conducting spheres illuminated by linearly polarized plane waves. The tables were originally intended to serve as a calibration reference for radar cross section measurements, but they can also be used more generally as a standard of comparison for analytical, numerical, and experimental techniques in electromagnetics. The tables provide a listing of the bistatic radar cross sections computed from the Mie series to four place accuracy for a wide range of closely spaced sphere sizes and scattering angles. The FORTRAN program used to compute the tables was adapted from one developed at the Naval Research Laboratory and is listed in Appendix B. Also included in this handbook is a representative selection of plots which illustrate trends and give the observer a visual perspective of $\sigma/\pi a^2$ when ka and the bistatic observation angle are varied.				
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Bistatic Scattering From Conducting Calibration Spheres

1. INTRODUCTION

After an extensive literature search, no comprehensive handbook of scattering tables for conducting spheres was found. Since a handbook of this kind would be valuable for calibration procedures, such as the use of spheres for the scattering reference targets in anechoic chambers, a project was undertaken to develop this handbook.

Mie¹ has generally been recognized for deriving the basic formulas to calculate the complete analytical solution for the scattering from spheres of arbitrary size. However, a literature review conducted by Logan^{2,3} shows that the formulas contained in Mie's solution were first presented by Lorenz⁴ in 1890. One reason why Mie has been credited with the solution may be that he set out on an extensive program of applying "his" solution to the computation of scattering from spheres which were too large to fit the criteria for Rayleigh scattering. In spite of the fact that Mie's solution was not original, it is exact and is used as the basis for the computation of the scattering tables contained in this handbook.

(Received for publication 18 April 1984)

1. Mie, G. (1908) Ann. d. Physik, **25**:377-442.
2. Logan, N. A. (1962) Early history of the Mie solution, J. Opt. Soc. Am., **52**:342-434.
3. Logan, N. A. (1965) Survey of some early studies of the scattering of the plane waves by a sphere, Proc. IEEE, **53**:773-785.
4. Lorenz, L. (1890) Videnskab. Selskabs Skrifter, **6**.

A number of existing FORTRAN programs for calculating the Mie scattering for spheres were analyzed for completeness, accuracy of computation, and ease of adaptation.^{5, 6, 7} We finally chose the program developed by Hancock and Livingston⁷ of the Naval Research Laboratory (NRL) because of: (1) its complete and accurate treatment of the Bessel function computations as described in Abramowitz and Stegun;⁸ (2) its computational assurance that each Mie series reaches a designated convergence; and (3) its convenient adaptability for use on the Air Force Geophysics Laboratory (CDC 6600 computer).

Each table in this handbook lists the radar cross section normalized to the geometric cross section for both E-Plane ($\bar{E}_1$) and H-Plane ($\bar{E}_r$) polarizations for bistatic scattering angles from backscatter to forward scatter at 2-degree intervals. A table is listed for each ka value ranging from 0.2 to 40 at intervals of 0.2.

In addition to the tables, two sets of plots are included in this handbook. These plots are intended to illustrate trends and to give the observer an overall perspective of the bistatic scattering from conducting spheres. The first set contains plots of $\sigma/\pi a^2$ vs ka for particular bistatic observation angles ranging from backscatter to forward scatter at 10 degree intervals. The second set contains plots of $\sigma/\pi a^2$ vs bistatic observation angles for selected ka values ranging from 0.01 to 70.

2. THEORETICAL FORMULATION

The FORTRAN program is written from Kerker's formulation⁹ of the Mie scattering solution. A flowchart is contained in Appendix A and the program itself is listed in Appendix B. The NRL version of this program computed the scattering from lossless dielectric spheres only and, therefore, required modification before computations for perfectly conducting spheres could be carried out. The derivation of the formulas for conducting spheres will now be discussed.

The geometry of the problem is illustrated in Figure 1, where a sphere of radius a is centered at the origin. The magnitude of the incident electric field is assumed to be one propagating in the $+z$ direction, $\hat{e}_z$, and polarized along the x -axis ($\bar{E}_1$). The observation direction of the scattered wave ($\bar{r}$) is defined by the usual spherical angles θ and ϕ shown in Figure 1. The directions of incidence and scattering define the "scattering plane."

(Because of the large number of references cited above, they will not be listed here. See References, page 55.)

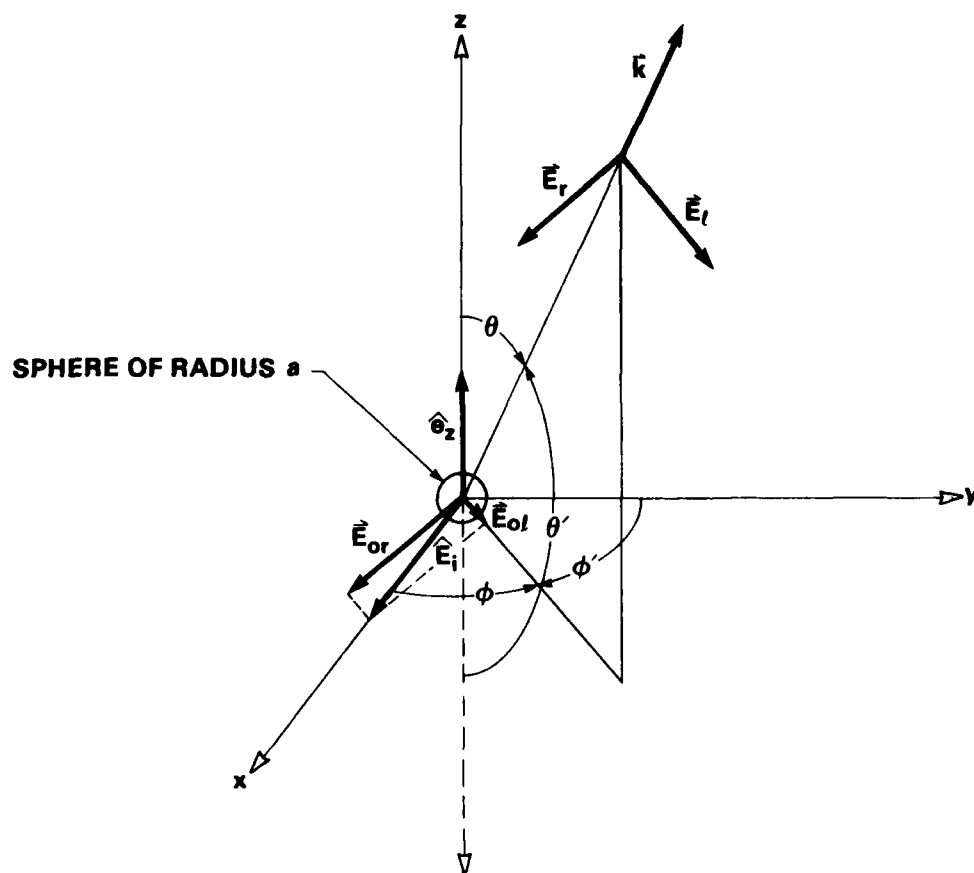


Figure 1. Geometry of Scattering Problem

The most difficult part of calculating the radar cross section (RCS) is the evaluation of the complex scattering amplitude functions S_1 and S_2 given by

$$S_1 = \sum_{n=1}^{\infty} \frac{2n+1}{n(n+1)} \left[a_n \pi_n(\cos \theta) + b_n \tau_n(\cos \theta) \right] \quad (1)$$

$$S_2 = \sum_{n=1}^{\infty} \frac{2n+1}{n(n+1)} \left[a_n \tau_n(\cos \theta) + b_n \pi_n(\cos \theta) \right] , \quad (2)$$

where the angular functions $\pi_n(\cos \theta)$ and $\tau_n(\cos \theta)$ are

$$\pi_n(\cos \theta) = \frac{P_n^{(1)}(\cos \theta)}{\sin \theta} \quad (3)$$

$$\tau_n(\cos \theta) = \frac{d}{d\theta} P_n^{(1)}(\cos \theta) \cos \theta . \quad (4)$$

From Eq. (3)

$$P_n^{(1)}(\cos \theta) = \sin \theta \cdot \pi_n(\cos \theta) \quad (5)$$

which leads to

$$\tau_n(\cos \theta) = \frac{d}{d\theta} P_n^{(1)}(\cos \theta) = \cos \theta \cdot \pi_n'(\cos \theta) - \sin^2 \theta \cdot \pi_n''(\cos \theta) . \quad (6)$$

The following recursion relations can be used to compute $\pi_n(\cos \theta)$ and $\pi_n'(\cos \theta)$.

$$\pi_n(\cos \theta) = \cos \theta \left(\frac{2n-1}{n-1} \right) \pi_{n-1}(\cos \theta) - \left(\frac{n}{n-1} \right) \pi_{n-2}(\cos \theta) \quad (7)$$

$$\pi_n'(\cos \theta) = (2n-1) \pi_{n-1}'(\cos \theta) + \pi_{n-2}'(\cos \theta) \quad (8)$$

knowing that $\pi_1(\cos \theta) = 1$, $\pi_1'(\cos \theta) = 0$, $\pi_2(\cos \theta) = 3 \cos \theta$, and $\pi_2'(\cos \theta) = 3$. From the scattering amplitude coefficients, a_n and b_n , for penetrable spheres,

$$a_n = \frac{\Psi_n(\alpha) \Psi'_n(\beta) - m \Psi_n(\beta) \Psi'_n(\alpha)}{\zeta_n(\alpha) \Psi'_n(\beta) - m \Psi_n(\beta) \zeta'_n(\alpha)} \quad (9)$$

$$b_n = \frac{m \Psi_n(\alpha) \Psi_n(\beta) - \Psi_n(\beta) \Psi'_n(\alpha)}{m \zeta_n(\alpha) \Psi'_n(\beta) - \Psi_n(\beta) \zeta'_n(\alpha)}, \quad (10)$$

we can find a_n and b_n for a perfectly conducting sphere by letting the refractive index (m) approach infinity. Thus Eqs. (9) and (10) reduce to

$$a_n = \frac{\Psi'_n(\alpha)}{\zeta'_n(\alpha)} \quad (11)$$

and

$$b_n = \frac{\Psi_n(\alpha)}{\zeta_n(\alpha)}. \quad (12)$$

The perimeter of the sphere in wavelengths is denoted by $\alpha = ka = \frac{2\pi a}{\lambda}$ with λ = free space wavelength of the incident wave and a = radius of the sphere. $\Psi_n(\alpha)$ and $\zeta_n(\alpha)$ are the Ricatti-Bessel functions defined in the following manner:

$$\Psi_n(\alpha) = (\pi\alpha/2)^{1/2} J_{n+1/2}(\alpha) \quad (13)$$

$$\zeta_n(\alpha) = (\pi\alpha/2)^{1/2} H_{n+1/2}^{(2)}(\alpha), \quad (14)$$

where $J_{n+1/2}(\alpha)$ and $H_{n+1/2}^{(2)}(\alpha)$ are the half integral order Bessel functions of the first kind and Hankel functions of the second kind respectively. The function, $\zeta'_n(\alpha)$ is computed from $\Psi_n(\alpha) - i\chi_n(\alpha)$ where

$$\chi_n(\alpha) = (\pi\alpha/2)^{1/2} Y_{n+1/2}(\alpha) \quad (15)$$

and $Y_{n+1/2}(\alpha)$ is the half integral order Bessel function of the second kind. Primes on the functions $\Psi'_n(\alpha)$ and $\zeta'_n(\alpha)$ represent the derivatives with respect to the argument (α).

The method of logarithmic derivatives, first used by Infeld¹⁰, will now be used to transform Eq. (11) into a computationally simpler form which does not involve the explicit evaluation of $\Psi'_n(\alpha)$ and $\zeta'_n(\alpha)$. We now define two Bessel density functions $S_n(\alpha)$ and $R_n(\alpha)$ where

$$S_n(\alpha) = (\alpha)^{1/2} J_{n+1/2}(\alpha) = \left(\frac{2}{\pi}\right)^{1/2} \Psi_n(\alpha) \quad (16)$$

$$R_n(\alpha) = (\alpha)^{1/2} H_{n+1/2}^{(2)}(\alpha) = \left(\frac{2}{\pi}\right)^{1/2} \zeta_n(\alpha). \quad (17)$$

The logarithmic derivatives of $\Psi_n(\alpha)$ and $\zeta_n(\alpha)$ are defined as two new functions $\sigma_n(\alpha)$ and $\rho_n(\alpha)$:

$$\sigma_n(\alpha) = \frac{d}{d\alpha} \ln \left[\Psi_n(\alpha) \right] = \frac{\Psi'_n(\alpha)}{\Psi_n(\alpha)} = \frac{S'_n(\alpha)}{S_n(\alpha)} = \frac{d}{d\alpha} \ln \left[S_n(\alpha) \right] \quad (18)$$

$$\rho_n(\alpha) = \frac{d}{d\alpha} \ln \left[\zeta_n(\alpha) \right] = \frac{\zeta'_n(\alpha)}{\zeta_n(\alpha)} = \frac{R'_n(\alpha)}{R_n(\alpha)} = \frac{d}{d\alpha} \ln \left[R_n(\alpha) \right]. \quad (19)$$

The expression for the scattering amplitude coefficient a_n now becomes

$$a_n = \frac{\Psi'_n(\alpha)}{\Psi_n(\alpha)} = \frac{\Psi_n(\alpha) \cdot \frac{\Psi'_n(\alpha)}{\Psi_n(\alpha)}}{\zeta_n(\alpha) \cdot \frac{\zeta'_n(\alpha)}{\zeta_n(\alpha)}} = \frac{\Psi_n(\alpha)}{\zeta_n(\alpha)} \cdot \frac{\sigma_n(\alpha)}{\rho_n(\alpha)}. \quad (20)$$

By substituting Eq. (12) into Eq. (20) we get

$$a_n = b_n \cdot \frac{\sigma_n(\alpha)}{\rho_n(\alpha)}. \quad (21)$$

If we let $z_n(\alpha)$ denote the general Bessel function [$J_n(\alpha)$, $Y_n(\alpha)$, $H_n(\alpha)$, and so on], then the general Bessel density function $D_n(\alpha)$ becomes

$$D_n(\alpha) = \alpha^{1/2} Z_{n+1/2}(\alpha). \quad (22)$$

10. Infeld, L. (1947) The influence of the width of the gap upon the theory of antennas, Quart. Appl. Math., 5.

By differentiating $D_n(\alpha)$ with respect to α we get

$$D'_n(\alpha) = \alpha^{1/2} Z'_{n+1/2}(\alpha) + \frac{1}{2} \alpha^{-1/2} Z_{n+1/2}(\alpha). \quad (23)$$

If the recurrence formula¹¹

$$Z'_{n+1/2}(\alpha) = Z_{n-1/2}(\alpha) - \left[\frac{n+1/2}{\alpha} \right] Z_{n+1/2}(\alpha) \quad (24)$$

is substituted into Eq. (23) then

$$D'_n(\alpha) = \alpha^{1/2} \left[Z_{n-1/2}(\alpha) - \frac{n}{\alpha} Z_{n+1/2}(\alpha) \right]. \quad (25)$$

If we let $d_n(\alpha)$ denote the logarithmic derivative of $D_n(\alpha)$ then

$$d_n(\alpha) = \frac{D'_n(\alpha)}{D_n(\alpha)} = \left[\frac{Z_{n-1/2}(\alpha)}{Z_{n+1/2}(\alpha)} \right] - \frac{n}{\alpha}, \quad (26)$$

and the computation of $\sigma_n(\alpha)$ and $\rho_n(\alpha)$ become

$$\sigma_n(\alpha) = \frac{\Psi'_n(\alpha)}{\Psi_n(\alpha)} = \frac{S'_n(\alpha)}{S_n(\alpha)} = \left[\frac{J_{n-1/2}(\alpha)}{J_{n+1/2}(\alpha)} \right] - \frac{n}{\alpha} \quad (27)$$

$$\rho_n(\alpha) = \frac{\zeta'_n(\alpha)}{\zeta_n(\alpha)} = \frac{R'_n(\alpha)}{R_n(\alpha)} = \left[\frac{H_{n-1/2}^{(2)}(\alpha)}{H_{n+1/2}^{(2)}(\alpha)} \right] - \frac{n}{\alpha}. \quad (28)$$

By substituting Eqs. (13) and (14) in Eq. (12) we find

$$b_n = \frac{\Psi_n(\alpha)}{\zeta_n(\alpha)} = \frac{(\pi\alpha/2)^{1/2} J_{n+1/2}'(\alpha)}{(\pi\alpha/2)^{1/2} H_{n+1/2}^{(2)}(\alpha)} = \frac{J_{n+1/2}(\alpha)}{H_{n+1/2}^{(2)}(\alpha)}. \quad (29)$$

11. Watson, G. (1962) A Treatise on the Theory of Bessel Functions, Cambridge University Press, New York.

These relations are sufficient to easily compute the RCS of perfectly conducting spheres and were utilized for modifying NRL's FORTRAN program. Because we preferred the representation and notation of Ruck et al,¹² we decided to convert Kerker's formulation to Ruck's notation. Figure 2 shows the geometrical relationship between the two different notational systems. As one can see, Ruck's ϕ' is equal to Kerker's $\pi/2 - \phi$ and Ruck's θ' is equal to Kerker's $\pi - \theta$. After this conversion the normalized RCS, σ_N , which is the absolute RCS in the observation direction divided by the geometric cross section of the sphere, becomes

$$\sigma_N(\theta', \phi') = \left(\frac{\lambda}{\pi a}\right)^2 \left[|S_1(\theta')|^2 \cos^2 \phi' + |S_2(\theta')|^2 \sin^2 \phi' \right] . \quad (30)$$

3. PROGRAM DESCRIPTION

The first modification of NRL's computer program was the conversion to CDC 6600 single precision arithmetic (approximately 14 decimal digits). Comparison of single and double precision runs showed no difference for the four decimal digit accuracy desired. Therefore, double precision was considered unnecessary. As in the original program, the convergence criterion was that six consecutive terms of each series are required to satisfy the condition that the ratio of the current term to the current partial sum not exceed the relative tolerance of ± 0.001 . If this convergence condition is not met within 90 terms, a convergence warning is issued, and the 90th partial sum is used as the series value. Warnings have only been observed for $ka > 77$. The NRL program was further modified to be more user friendly. In other words when a data input is required an explicit question appears as a prompt. The NRL program only allowed the user to compute the RCS at 19 equispaced bistatic scattering angles but our modified program allows an unlimited number of equispaced angles to be computed in a single run. Subroutines in the NRL program which were used solely to compute the scattering from particle distributions have been omitted. Other changes include the conversion to Ruck's notation, the change in the calculation of scattering amplitude coefficients a_n and b_n to accommodate perfectly conducting spheres, and expansion in capability to compute the normalized RCS, σ_N , for any two orthogonal polarizations (not just E-Plane and H-Plane).

12. Ruck, G., Barrick, D., Stuart, W., and Krichbaum, C. (1970) Radar Cross Section Handbook, 1, Plenum Press, New York.

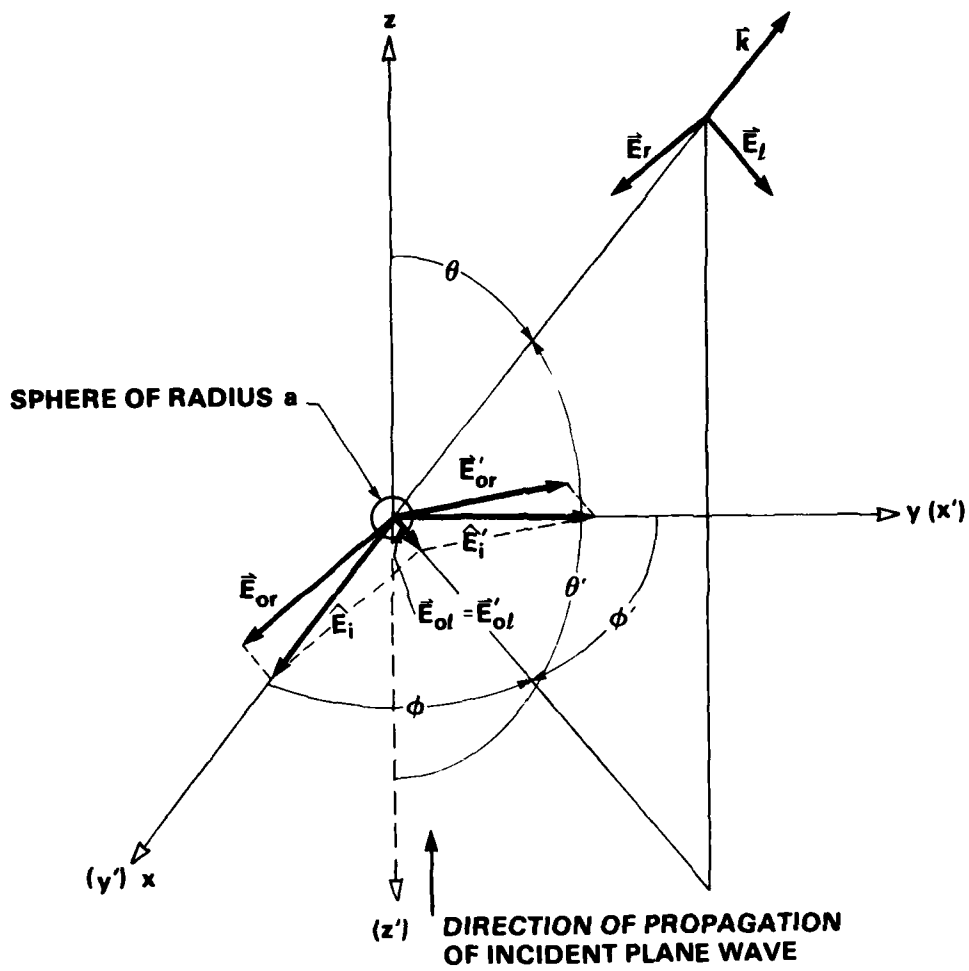


Figure 2. Relation Between Notation of Kerker and Ruck

There is a choice of two input formats. Type 0 format allows for ka and λ as input constants; type 1 allows for frequency and sphere radius. For either type, the normalized RCS, σ_N , for two orthogonal polarizations ϕ' and $\phi' + 90$ is calculated for scattering angles θ' , $\theta' + \Delta\theta'$, $\theta' + 2\Delta\theta'$, ... $\theta' + (NRT - 1)\Delta\theta'$.

The input variables are defined below:

LAMBDA	λ	Free space wavelength
A	a	Sphere radius (centimeters)
KA	ka	$\frac{2\pi a}{\lambda}$
FREQ	f	Frequency (Hertz)
PHI	ϕ'	Labeled PHI' - Polarization angle in XY plane (degrees)
THZ	θ'_0	Labeled THETA' SUB ZERO - Initial value of θ' (degrees)
DELTH	$\Delta\theta'$	Labeled DELTA THETHA' - Step size for θ' (degrees)
NRT		Labeled NUMBER OF THETA' - Number of values of θ' to be computed

The first line of output for either type 0 or 1 run contains NRT, A (meters), LAMBDA (meters), and ka respectively. Each successive line contains θ' , $\sigma_N(\theta', \phi')$, $\sigma_N(\theta', \phi' + 90^\circ)$. Two sample runs are listed on the next page. The first is for type 0 runs; the second, type 1.

4. PLOTS OF $\sigma/\pi a^2$ VERSUS ka

This section contains plots of $\sigma/\pi a^2$ vs ka for conducting spheres. Plots for each bistatic scattering observation angle ranging from backscatter ($\theta = 0^\circ$, where θ corresponds to Ruck's θ') to forward scatter ($\theta = 180^\circ$) at 10 degree intervals are included. The solid curves represent the E-Plane scattering and the dashed curves represent the H-Plane scattering. When referring to these plots, three distinct regions will be identified: the low-frequency region where $ka < 0.4$, the resonance region between $ka = 0.4$ and a point where the oscillations have settled to within some small value, ϵ , of the asymptotic value of $\sigma/\pi a^2$ and the high frequency region where $\sigma/\pi a^2$ is within ϵ of the asymptotic value.

```

*****
TYPE 1 TO RUN, 0 TO STOP >1
TYPE 0 FOR KA, 1 FOR FREQ INPUT >0
INPUT KA,LAMBDA(CM) >1.3
INPUT PHI', THETA' SUB ZERO >0,0
INPUT DELTA THETA', NUMBER OF THETA' >10,19
19 .4775E-02 .3000E-01 1.000
0.0 3.6374E+00 3.6374E+00
10.0 3.5798E+00 3.6313E+00
20.0 3.4093E+00 3.6116E+00
30.0 3.1348E+00 3.5760E+00
40.0 2.7717E+00 3.5209E+00
50.0 2.3418E+00 3.4425E+00
60.0 1.8741E+00 3.3376E+00
70.0 1.4040E+00 3.2046E+00
80.0 9.7162E-01 3.0448E+00
90.0 6.1788E-01 2.8628E+00
100.0 3.7935E-01 2.6664E+00
110.0 2.8147E-01 2.4661E+00
120.0 3.3200E-01 2.2732E+00
130.0 5.1625E-01 2.0986E+00
140.0 7.9635E-01 1.9506E+00
150.0 1.1157E+00 1.8345E+00
160.0 1.4087E+00 1.7522E+00
170.0 1.6138E+00 1.7035E+00
180.0 1.6875E+00 1.6875E+00
*****
TYPE 1 TO RUN, 0 TO STOP >0
END MIECM
035500 MAXIMUM EXECUTION FL.
.097 CP SECONDS EXECUTION TIME.
COMMAND-

```

Figure 3. Sample Run for MIECM
for Ka, Lambda Inputs

```

*****
TYPE 1 TO RUN, 0 TO STOP >1
TYPE 0 FOR KA, 1 FOR FREQ INPUT >1
INPUT FREQ, RADIUS(CM) >1E10,.4775
INPUT PHI', THETA' SUB ZERO >0,0
INPUT DELTA THETA', NUMBER OF THETA' >10,19
19 .4775E-02 .2998E-01 1.001
0.0 3.6385E+00 3.6385E+00
10.0 3.5807E+00 3.6322E+00
20.0 3.4103E+00 3.6127E+00
30.0 3.1361E+00 3.5773E+00
40.0 2.7732E+00 3.5225E+00
50.0 2.3434E+00 3.4443E+00
60.0 1.8759E+00 3.3397E+00
70.0 1.4058E+00 3.2069E+00
80.0 9.7337E-01 3.0474E+00
90.0 6.1948E-01 2.8655E+00
100.0 3.8078E-01 2.6693E+00
110.0 2.8279E-01 2.4690E+00
120.0 3.3331E-01 2.2761E+00
130.0 5.1771E-01 2.1015E+00
140.0 7.9811E-01 1.9535E+00
150.0 1.1178E+00 1.8374E+00
160.0 1.4112E+00 1.7551E+00
170.0 1.6166E+00 1.7065E+00
180.0 1.6904E+00 1.6904E+00
*****
TYPE 1 TO RUN, 0 TO STOP >0
END MIECM
035500 MAXIMUM EXECUTION FL.
.099 CP SECONDS EXECUTION TIME.
COMMAND-

```

Figure 4. Sample Run of MIECM
for Frequency, Radius Inputs

Figure 5 shows the classic normalized backscatter cross section vs ka which is seen in most reference books on electromagnetic scattering. The remainder of the plots included in this section are rarely seen in the literature, but they do reveal some trends which should be noted. First, as θ increases from 0 degrees, the resonance region for the E-Plane scattering broadens as the oscillations increase in magnitude. Thus, as θ increases, larger ka values must be attained before reaching the high-frequency region. On the contrary, for $\theta < 80^\circ$, the H-Plane scattering curves remain relatively unchanged and reach the high-frequency region at much lower ka values than for the E-Plane. Second, the H-Plane curves indicate a forward scatter enhancement as θ increases beyond approximately 80 degrees. This enhancement does not become apparent for E-Plane scattering until θ reaches much higher values. Third, the E-Plane and H-Plane scattering curves clearly begin to reconverge as θ increases beyond 140 degrees. Fourth, at low values of both θ (except $\theta = 0^\circ$) and ka , the E-Plane scattering curves indicate the presence of a second order interference pattern. This resonance manifests itself as a modal pattern in those E-Plane curves. The H-Plane curves reveal no such phenomenon. Lastly, for the forward scatter direction (Figure 23), it is clear that for $ka > 10$ we find that $\sigma/\pi a^2 \approx (ka)^2$ which agrees with the high-frequency region solutions for forward scatter universally found in the literature.

5. PLOTS OF $\sigma/\pi a^2$ VERSUS θ

This section contains plots of $\sigma/\pi a^2$ vs the bistatic scattering observation angle θ (where θ corresponds to Ruck's θ') for selected values of ka ranging from 0.01 to 70.0. The solid curves are for the E-Plane scattering and the dashed curves are for the H-Plane scattering.

Figures 24 and 25 illustrate the dipole effect which is prevalent in very small conducting spheres. The induced surface charges and currents on such spheres correspond to oscillating electric and magnetic dipoles where the ratio of the electric to magnetic dipole moment is 2 to 1. The null in the E-Plane curves at $\theta = 120^\circ$ is a result of the electric and magnetic dipole far fields cancelling at this angle. Specifically, the low-frequency scattering solutions are

$$\sigma/\pi a^2 = 4 (ka)^4 [1/2 + \cos \theta]^2 \quad \text{for E-Plane}$$

$$\sigma/\pi a^2 = 4 (ka)^4 [1/2 \cos \theta + 1]^2 \quad \text{for H-Plane}$$

which clearly reveal the null in the E-Plane. It is also evident from the first two plots and the formulas above that $\sigma/\pi a^2$ for H-Plane scattering is a monotonically decreasing function containing no nulls.

As ka increases beyond 0.2, the null in the E-Plane curves gradually disappears and no clear trend appears until ka increases beyond approximately 4.0. The envelope for the E-Plane curves then becomes evident and even though the broadness and magnitude of the envelope pattern varies as ka increases, the characteristic shape does not. For the H-Plane, the magnitude of the oscillations is always much smaller.

One important factor to consider when using metal spheres for calibrating bistatic scattering ranges is that one must be careful not to pick a sphere size which has a deep valley or null in the theoretical pattern at the bistatic angles to be measured. This condition must be insured in order to minimize measurement errors throughout the dynamic range of the measurement system.

6. CONCLUSIONS

We have illustrated the theoretical derivation for the Mie scattering from conducting spheres using Kerker's formulation and have incorporated that theory into the FORTRAN program listed in Appendix B. This program (MIECM) is capable of computing the normalized scattering cross section for any number of equispaced bistatic scattering observation angles for any two orthogonal polarizations (for example, E-Plane and H-Plane). A description of how MIECM operates is provided so that it can be used after a minimal amount of user familiarization.

Two sets of plots which illustrate trends have been included in this handbook. In the discussion some anomalies such as the presence of a second order interference pattern in the E-Plane scattering for low values of θ and ka , and the dipole effect which is prevalent in the E-Plane scattering of very small spheres are pointed out. It is hoped that these two sets of plots will give the observer an overall perspective of bistatic scattering from conducting spheres.

In addition, we have stressed that, in order to minimize measurement errors, the size of the sphere used in the calibration of a bistatic scattering range must be chosen very carefully.

Finally we have compiled and included a comprehensive set of bistatic scattering tables for perfectly conducting spheres. The tables are intended to serve as a reference for the calibration of indoor scattering ranges which employ conducting spheres as test bodies. These tables will minimize the need for computing the MIE scattering for most reference spheres.

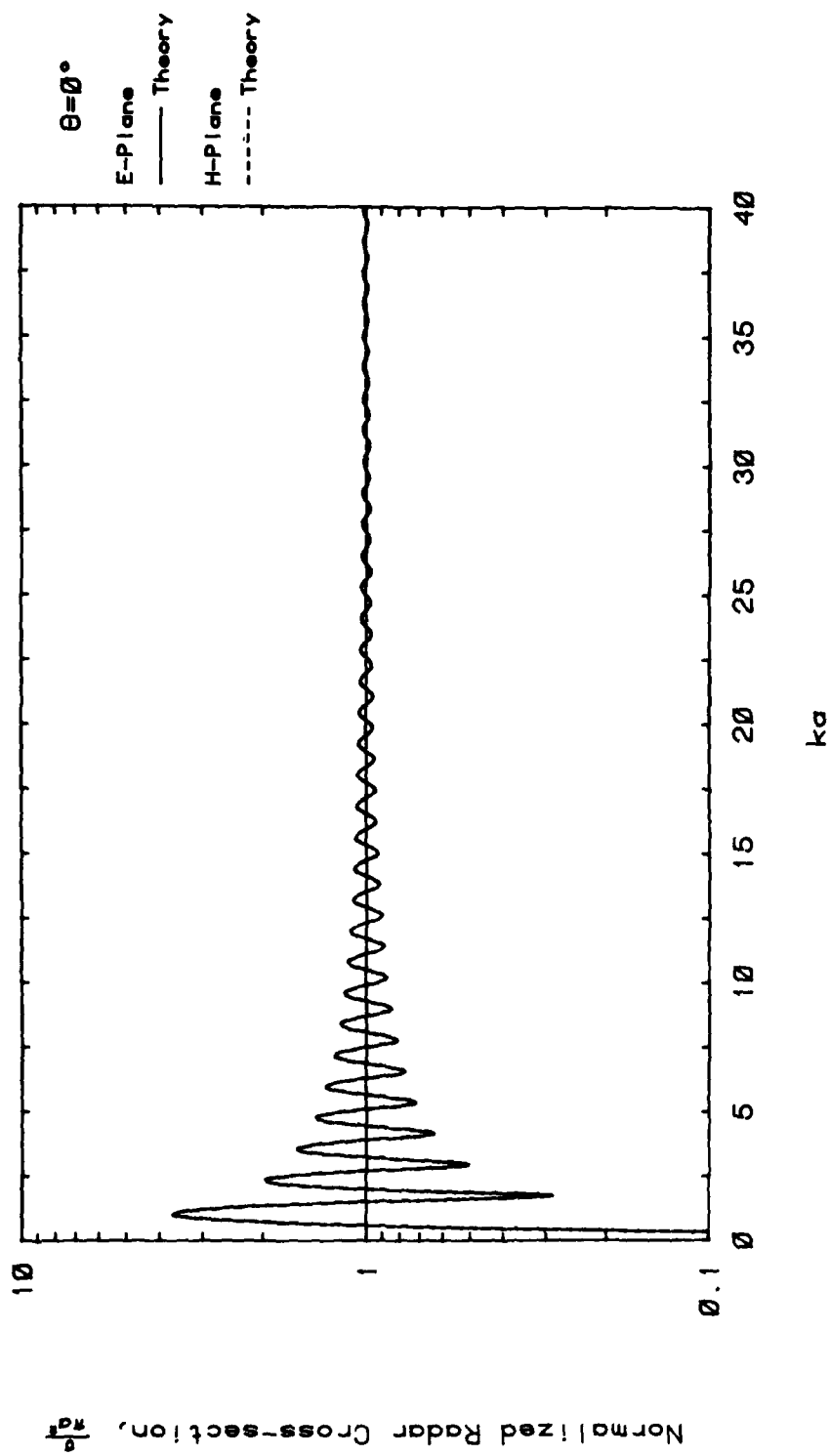


Figure 5. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 0^\circ$

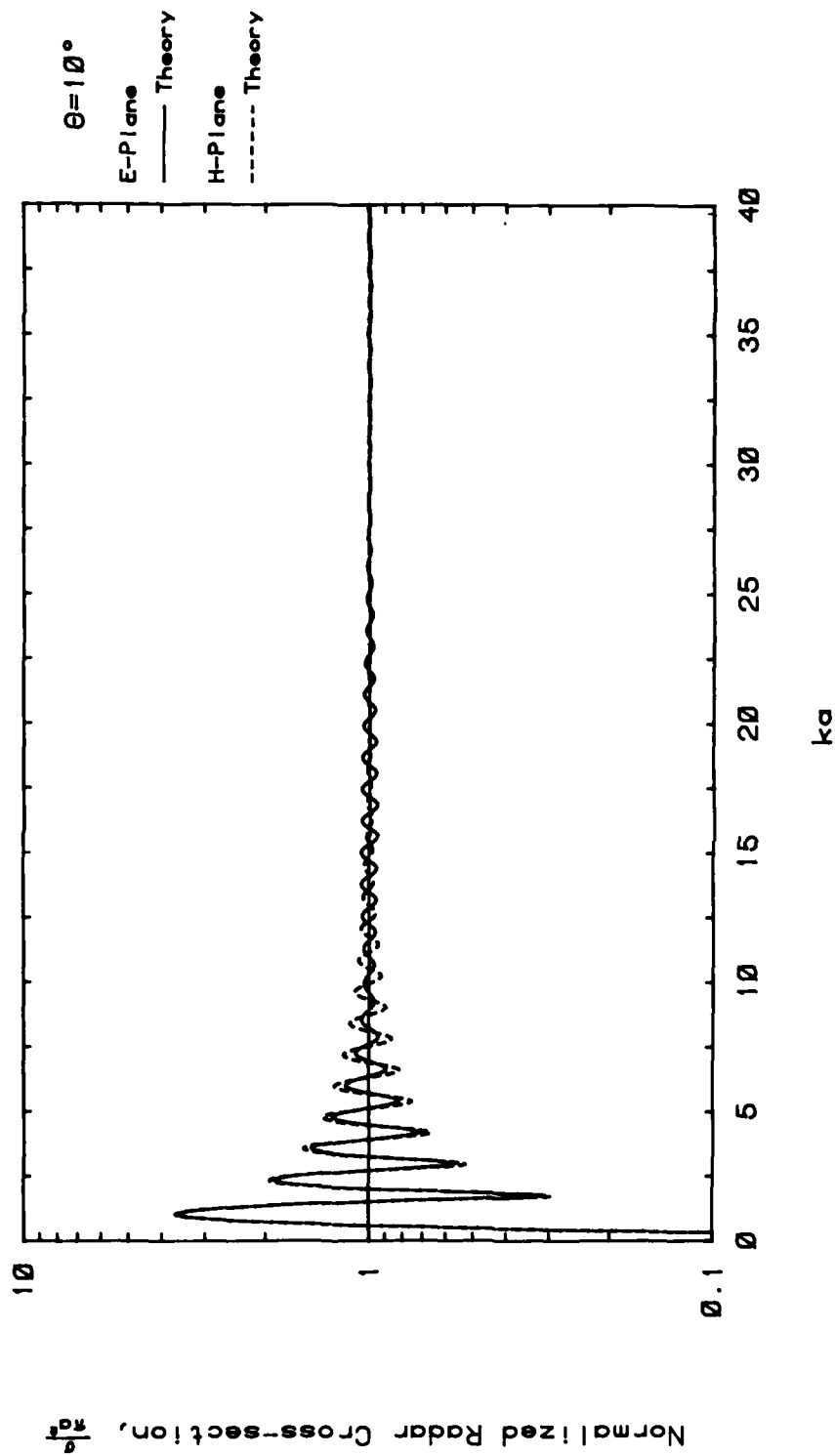


Figure 6. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 10^\circ$

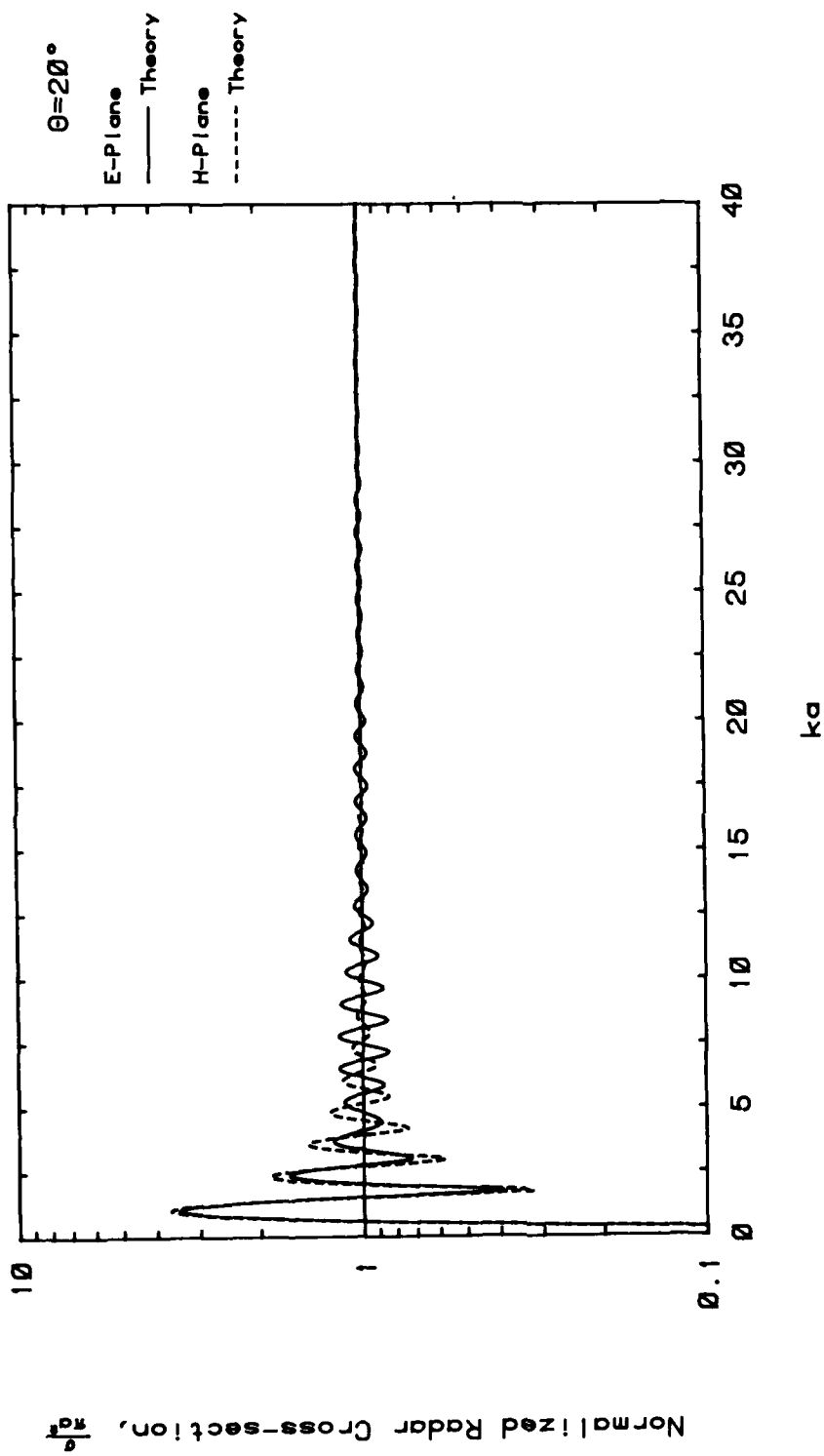


Figure 7. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 20^\circ$

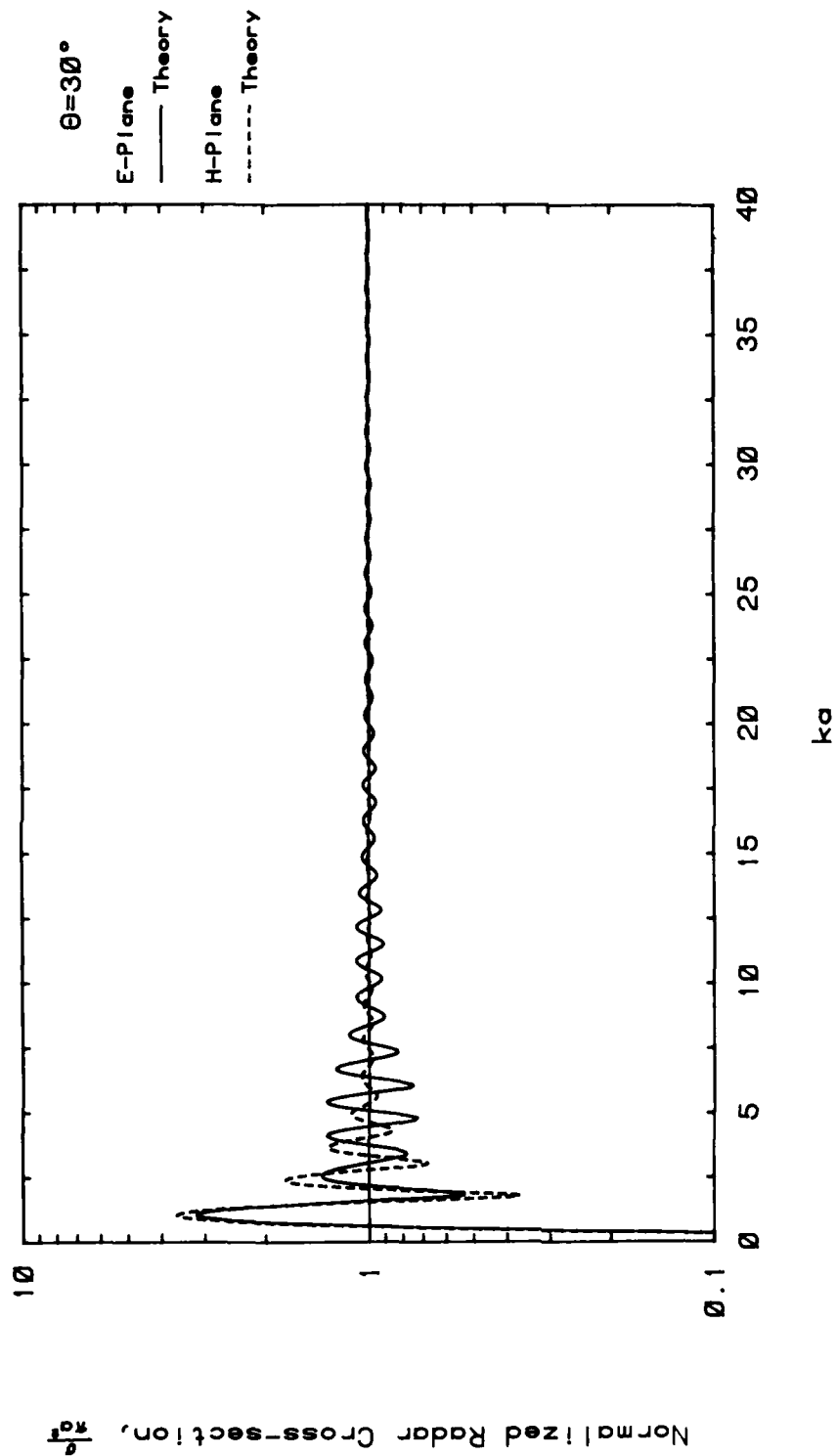


Figure 8. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 30^\circ$

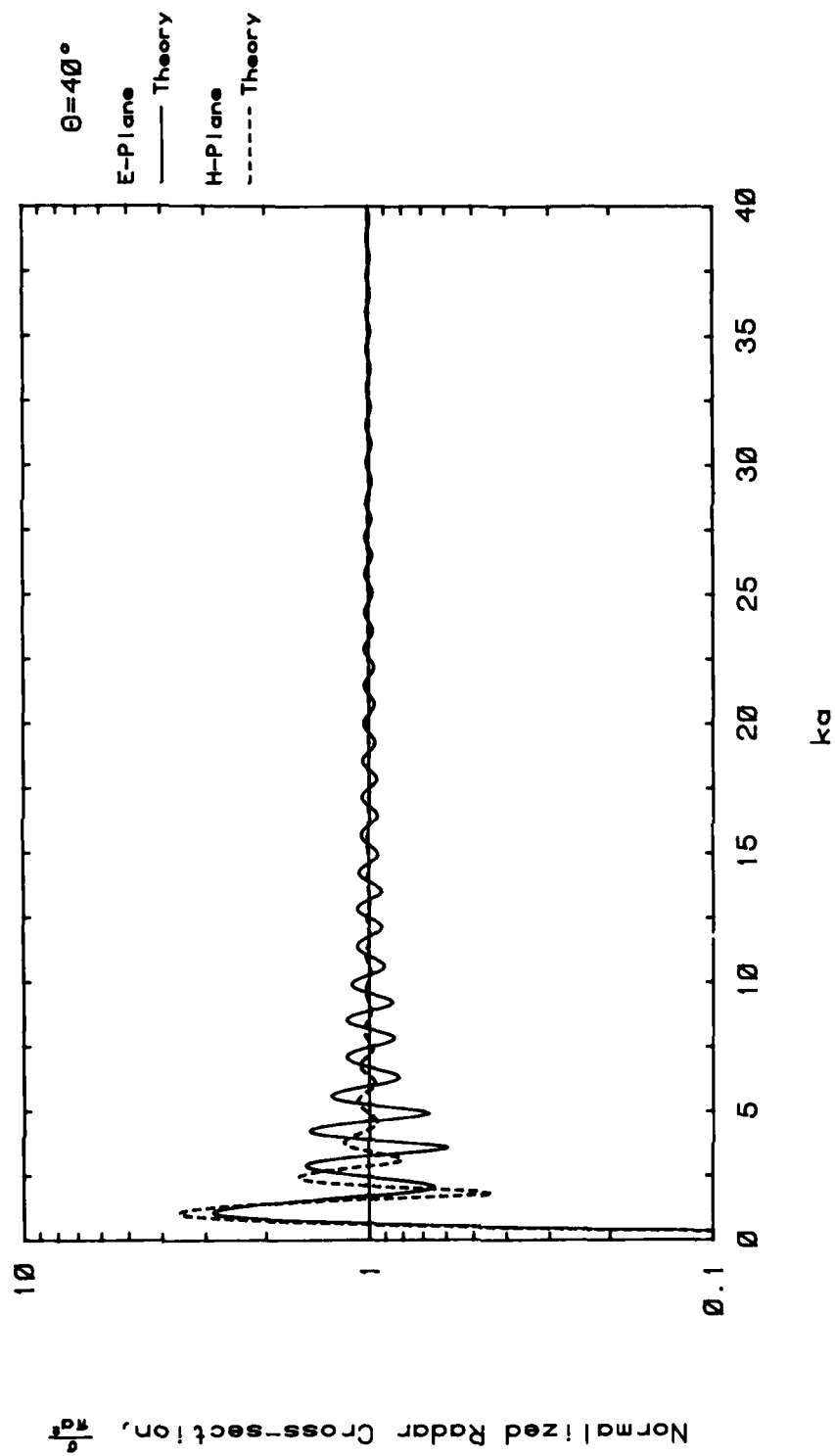


Figure 9. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 40^\circ$

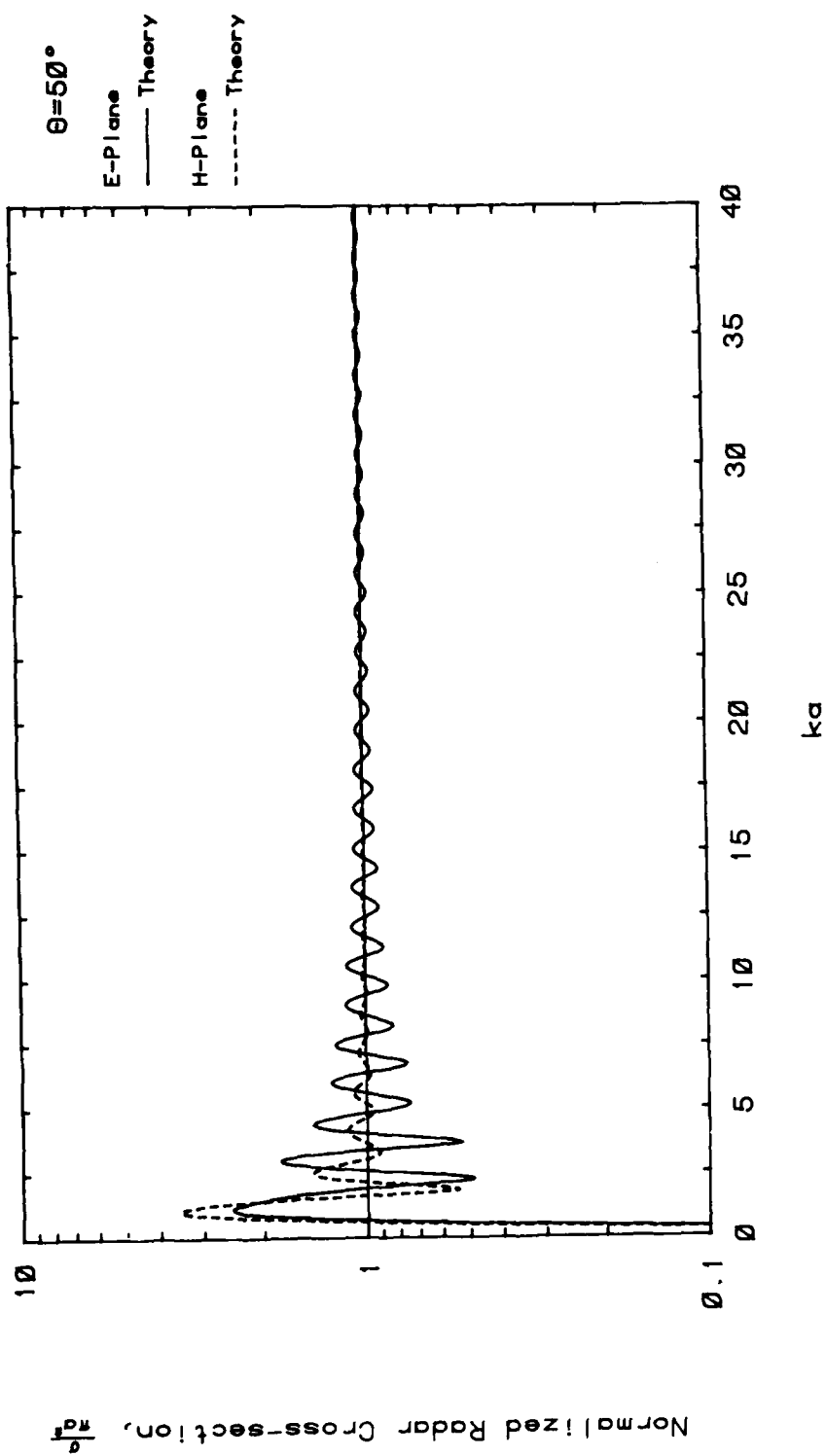


Figure 10. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 50^\circ$

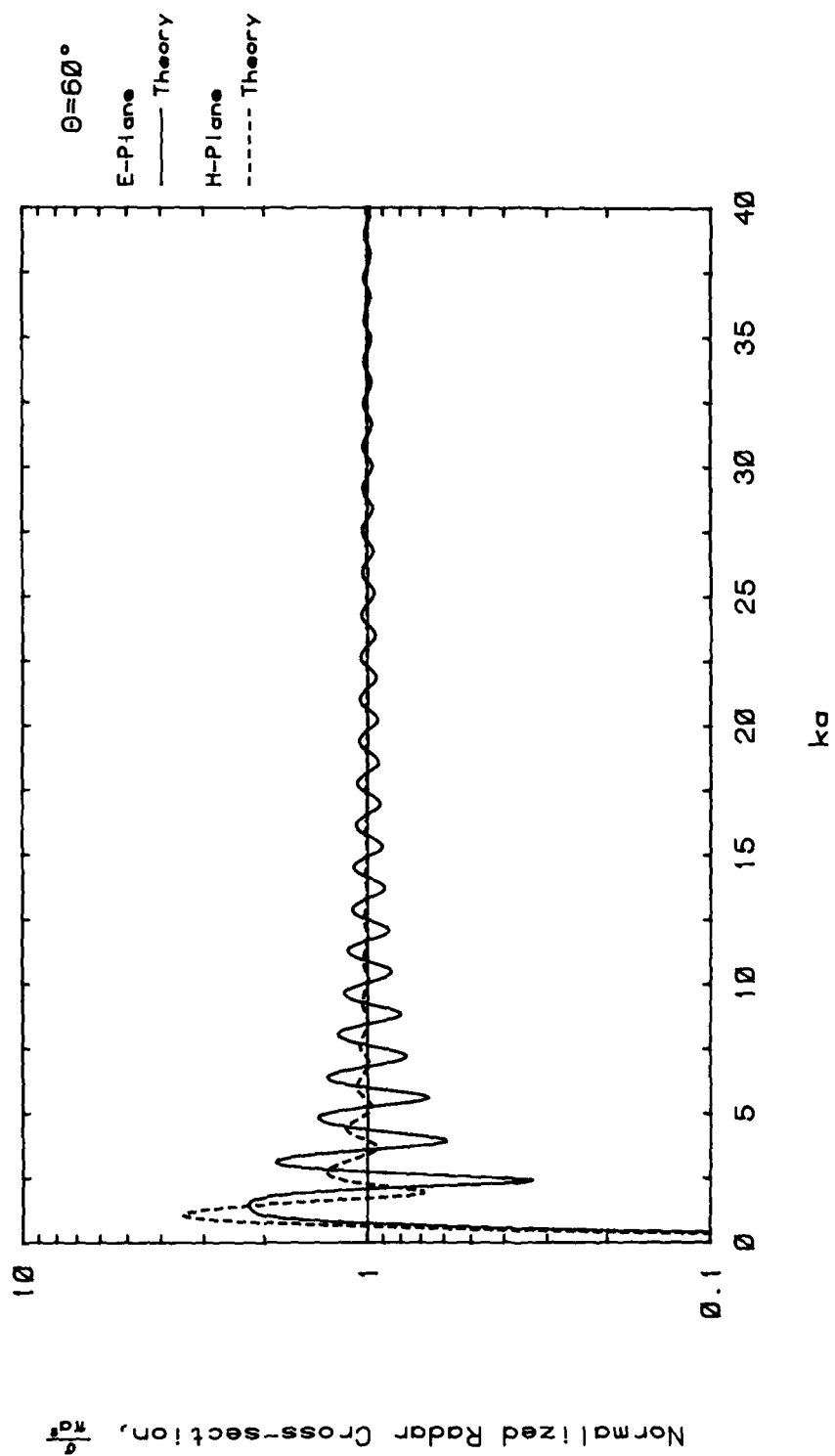


Figure 11. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 60^\circ$

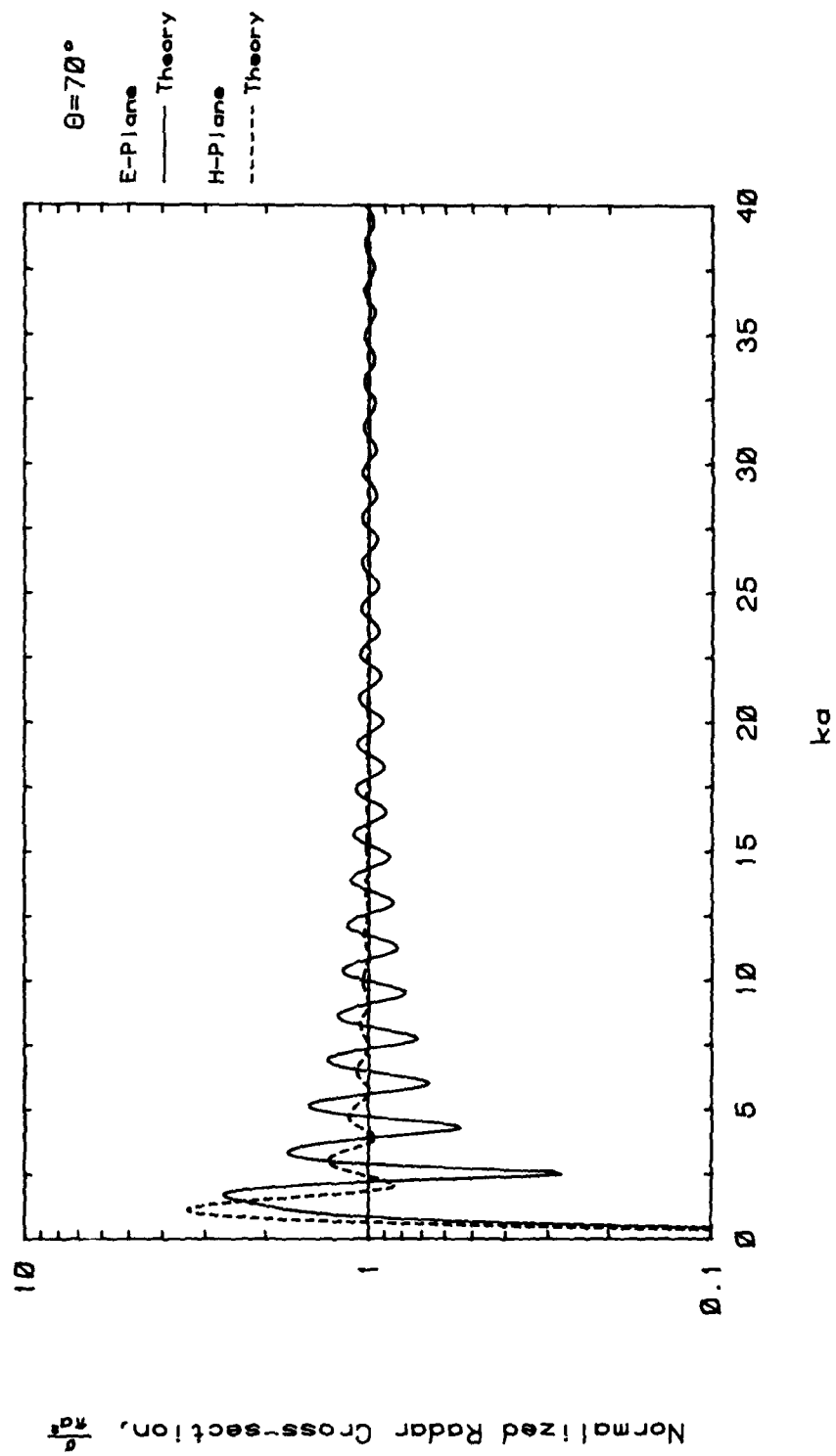


Figure 12. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 70^\circ$

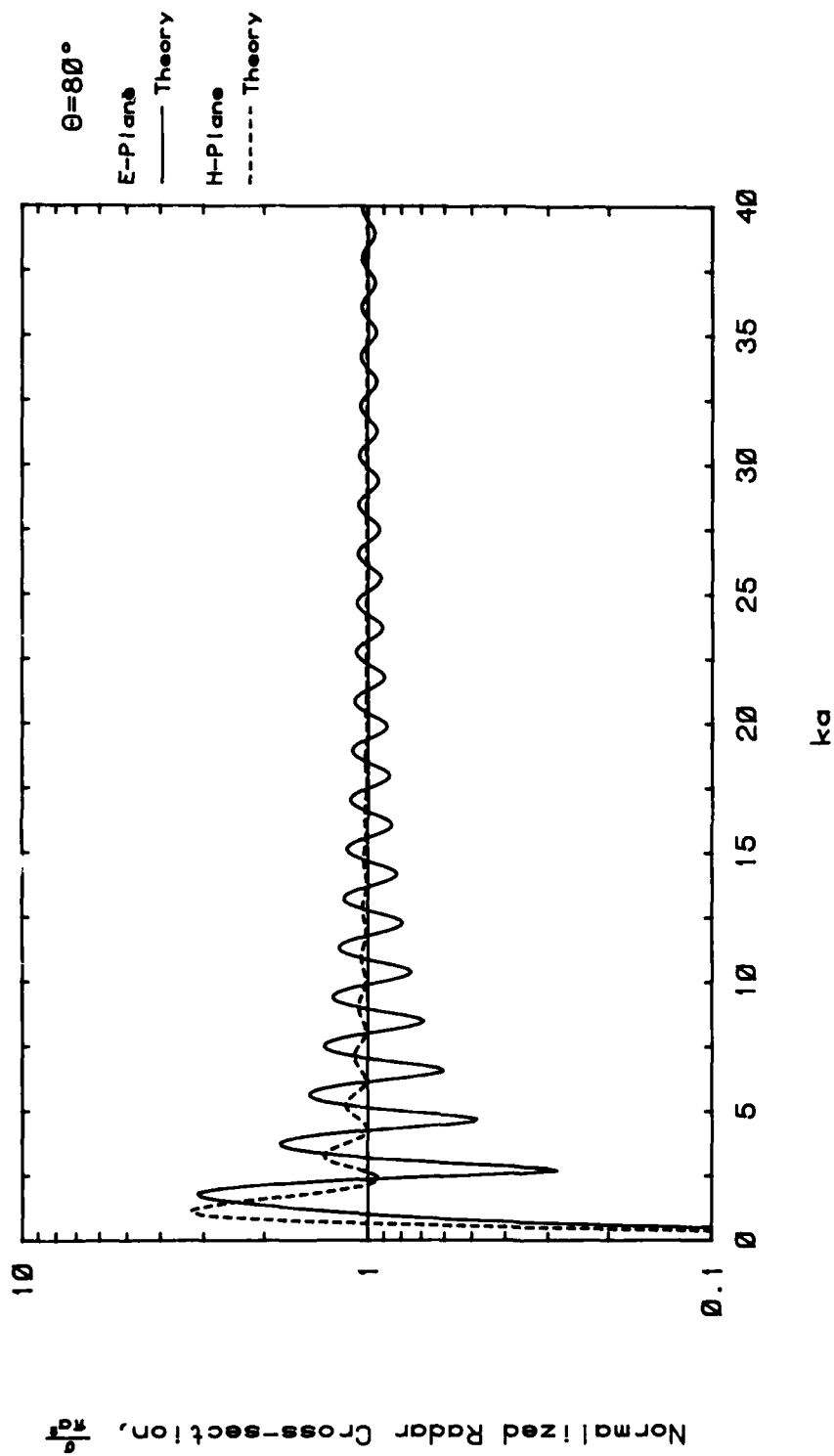


Figure 13. Plot of σ/ka^2 vs ka for $\theta = 80^\circ$

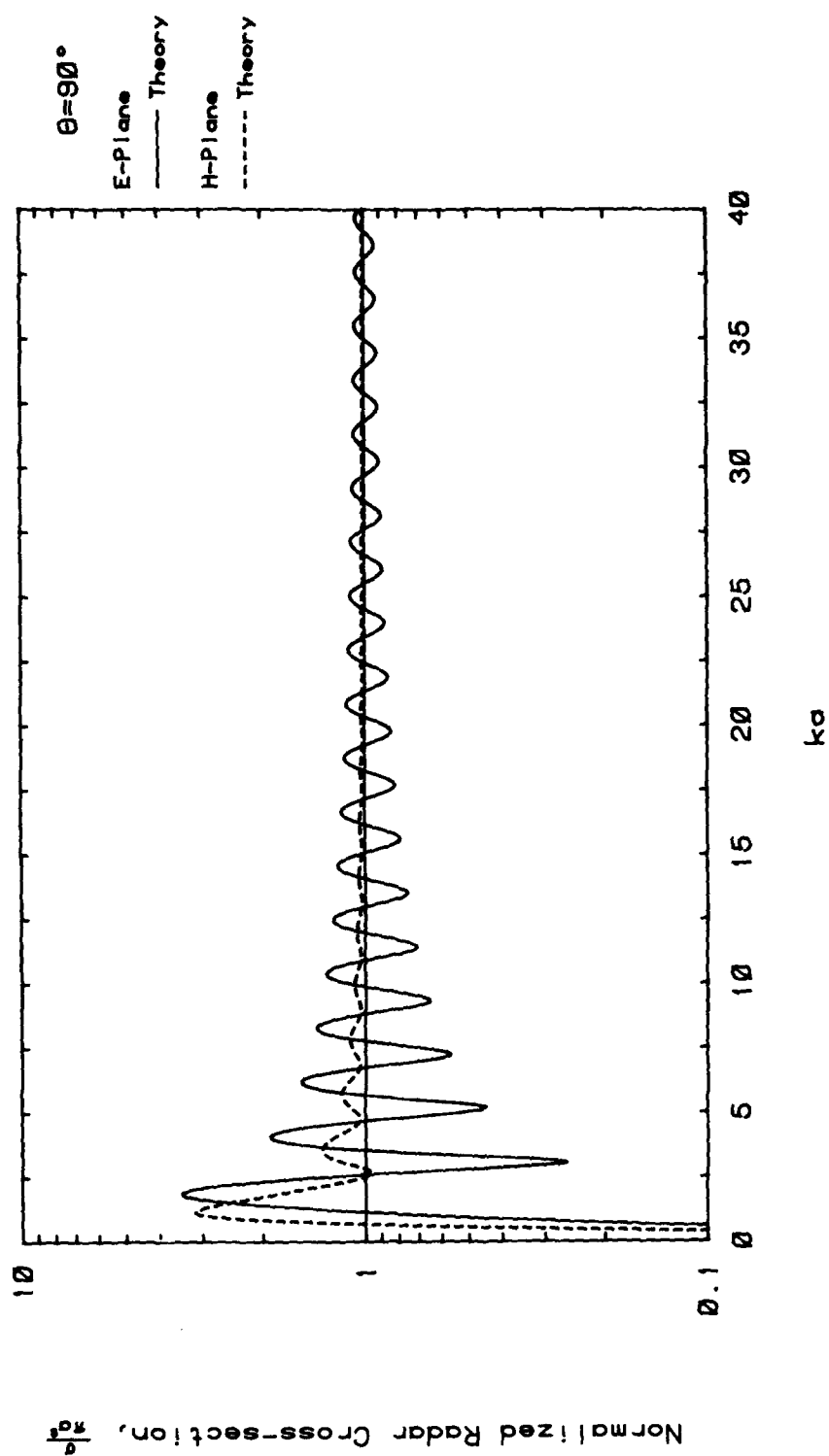


Figure 14. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 90^\circ$

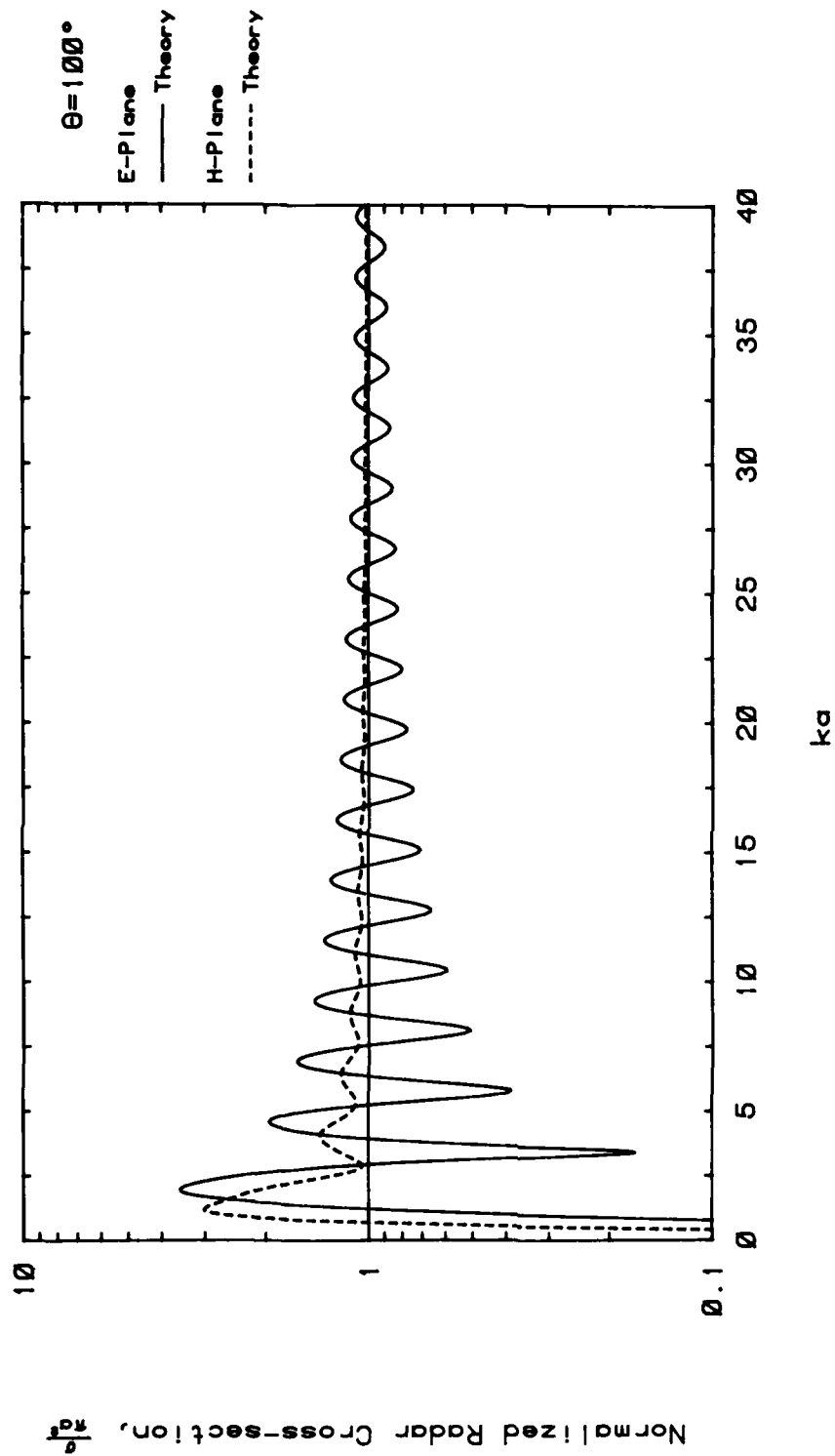


Figure 15. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 100^\circ$

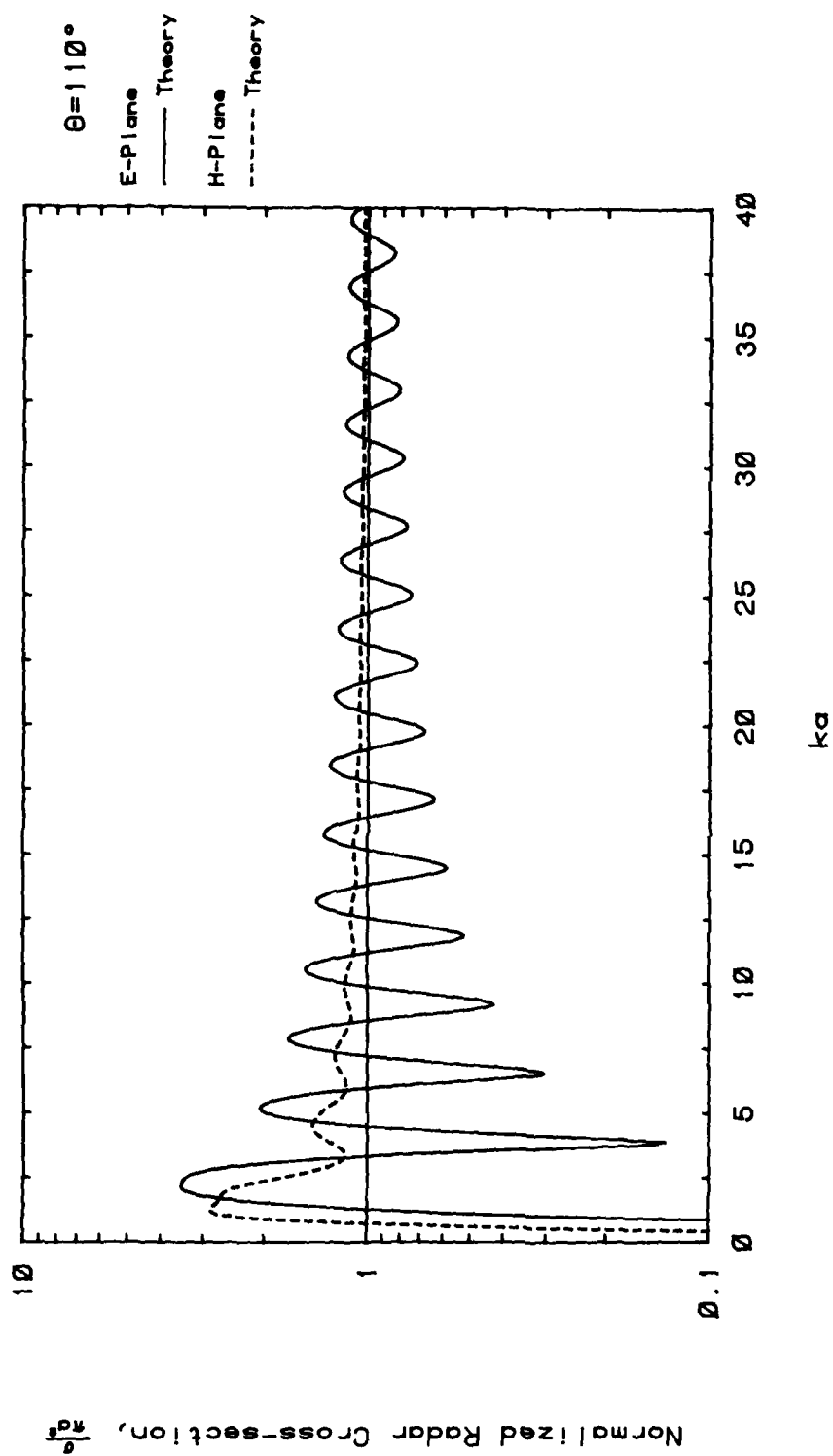


Figure 16. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 110^\circ$

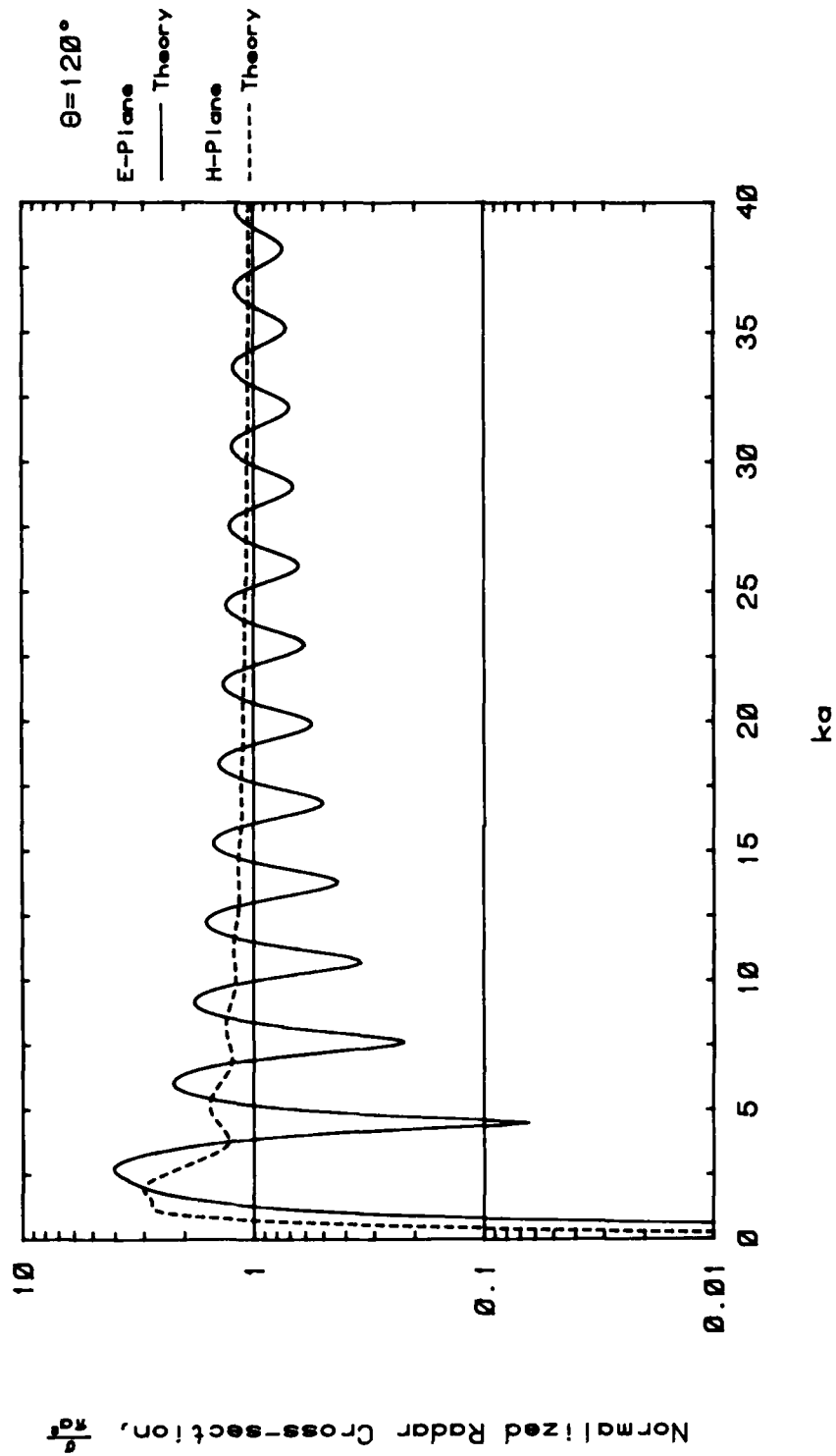


Figure 17. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 120^\circ$

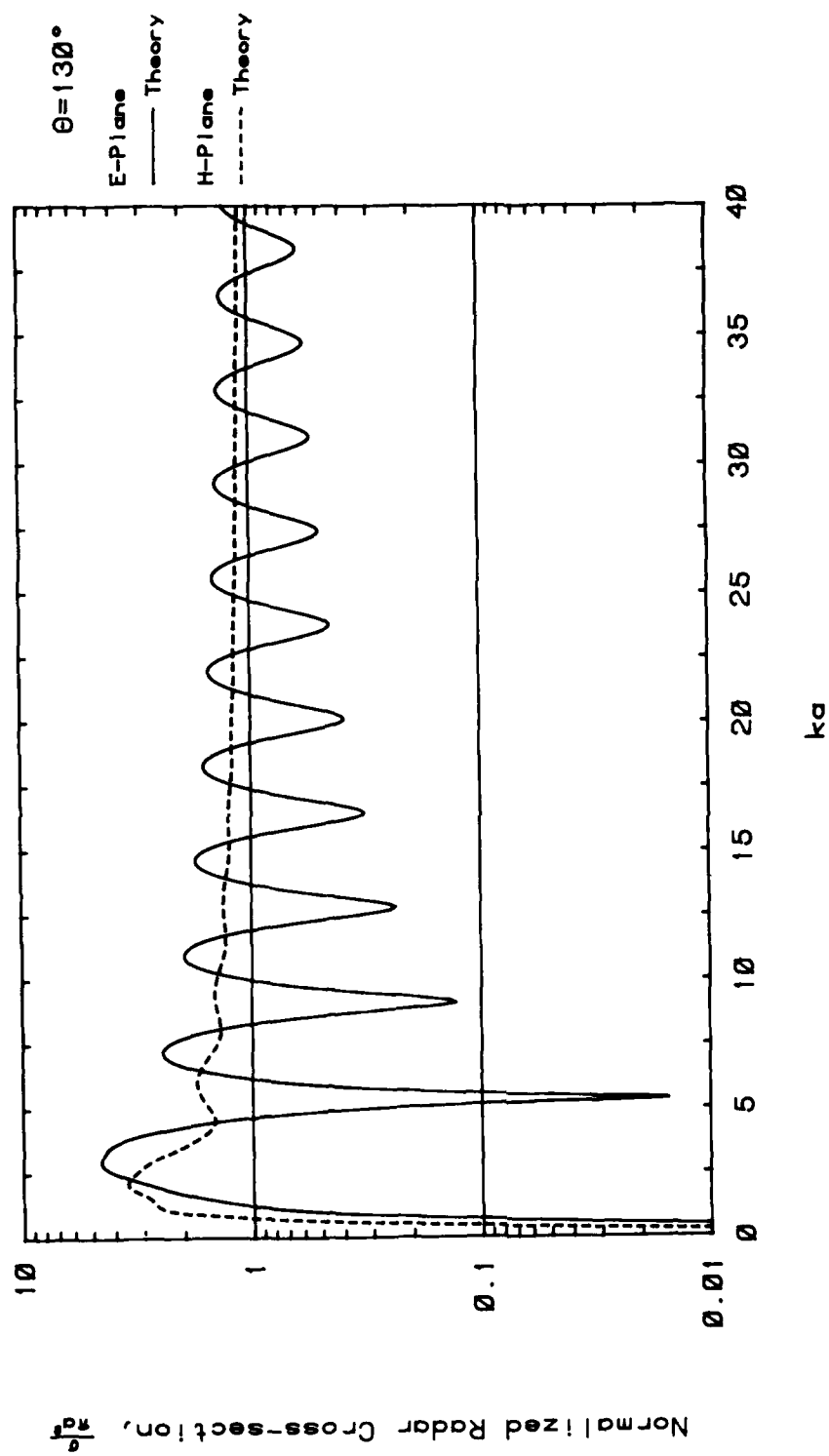


Figure 18. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 130^\circ$

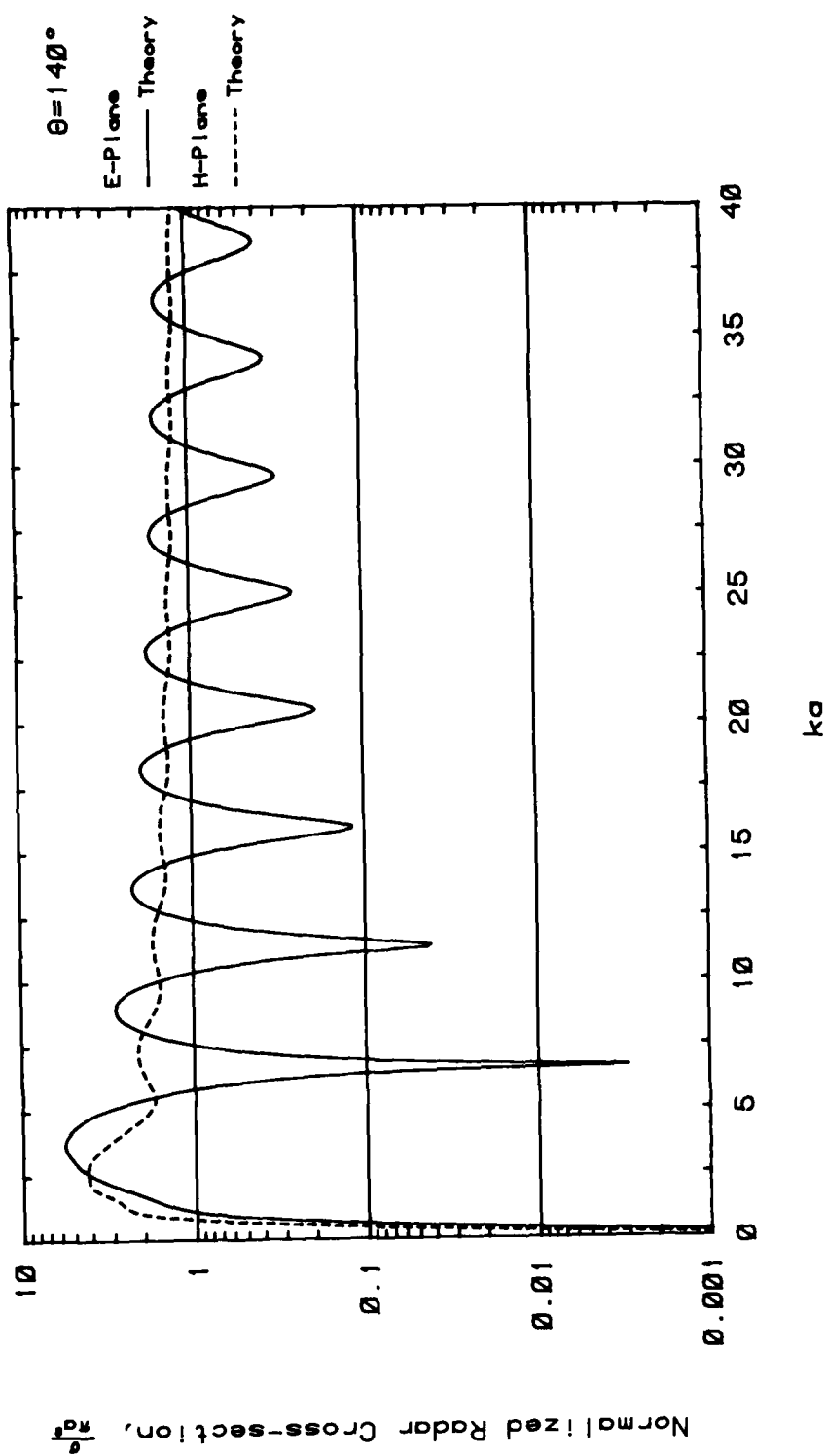


Figure 19. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 140^\circ$

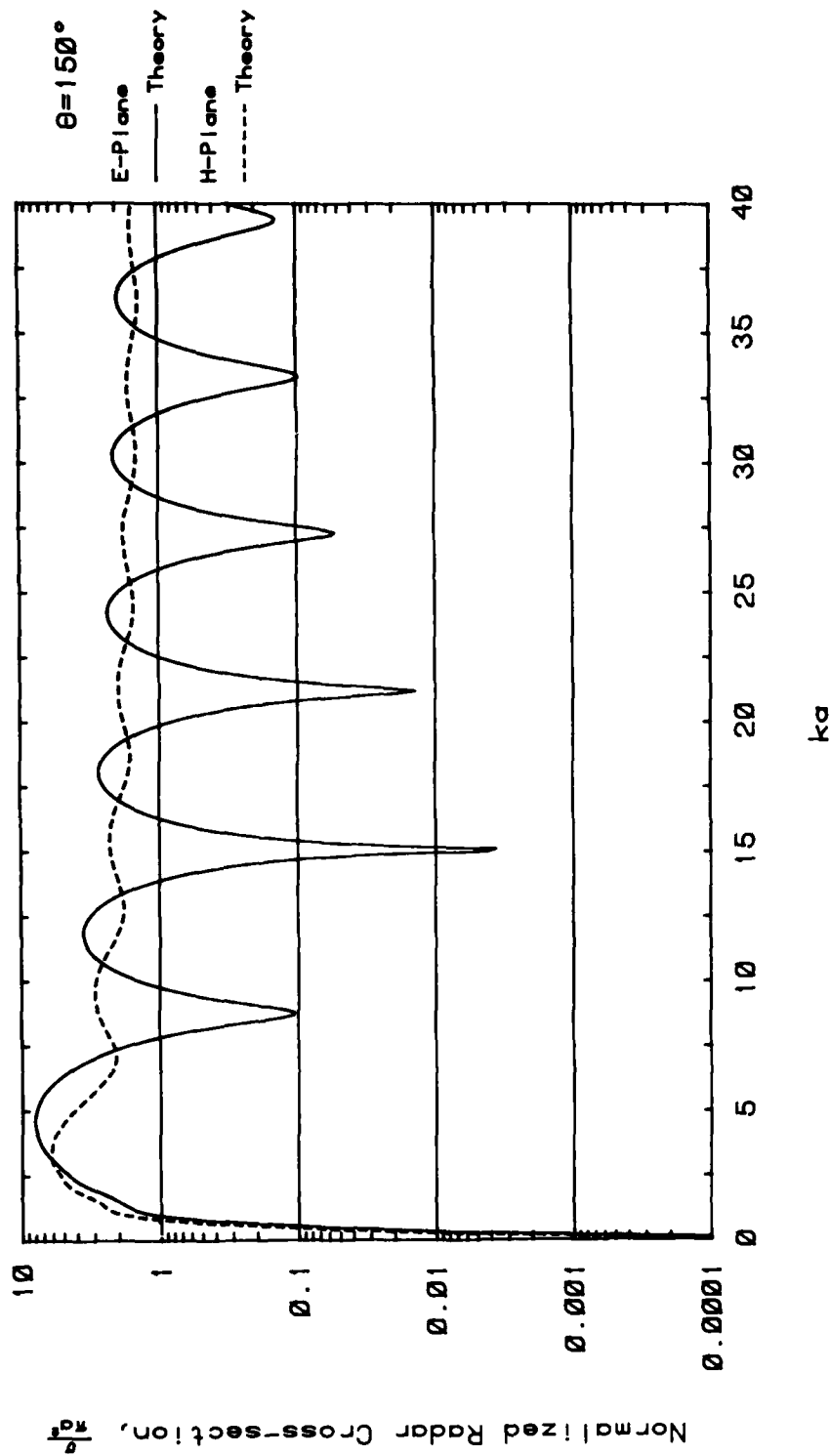


Figure 20. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 150^\circ$

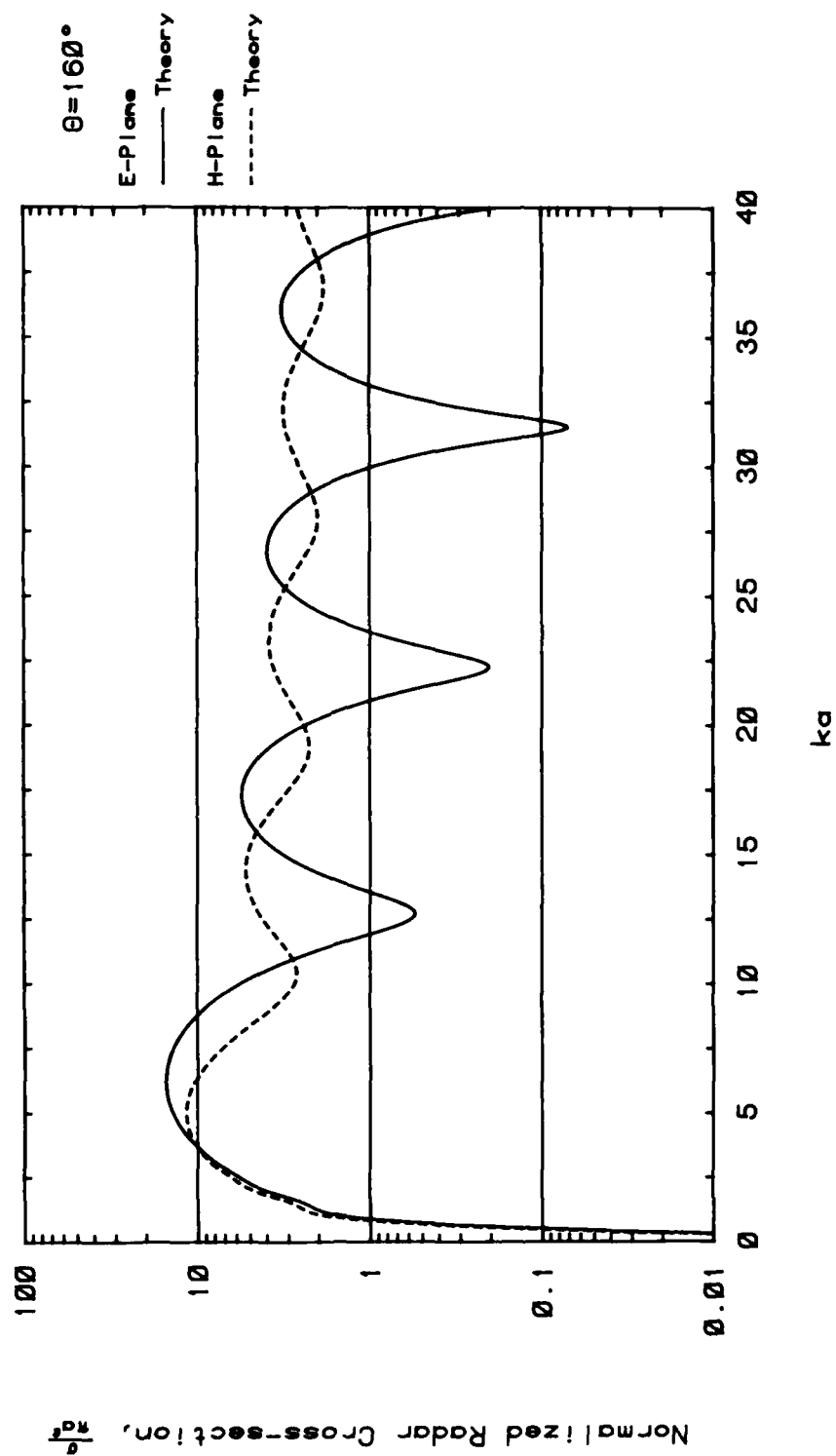


Figure 21. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 160^\circ$

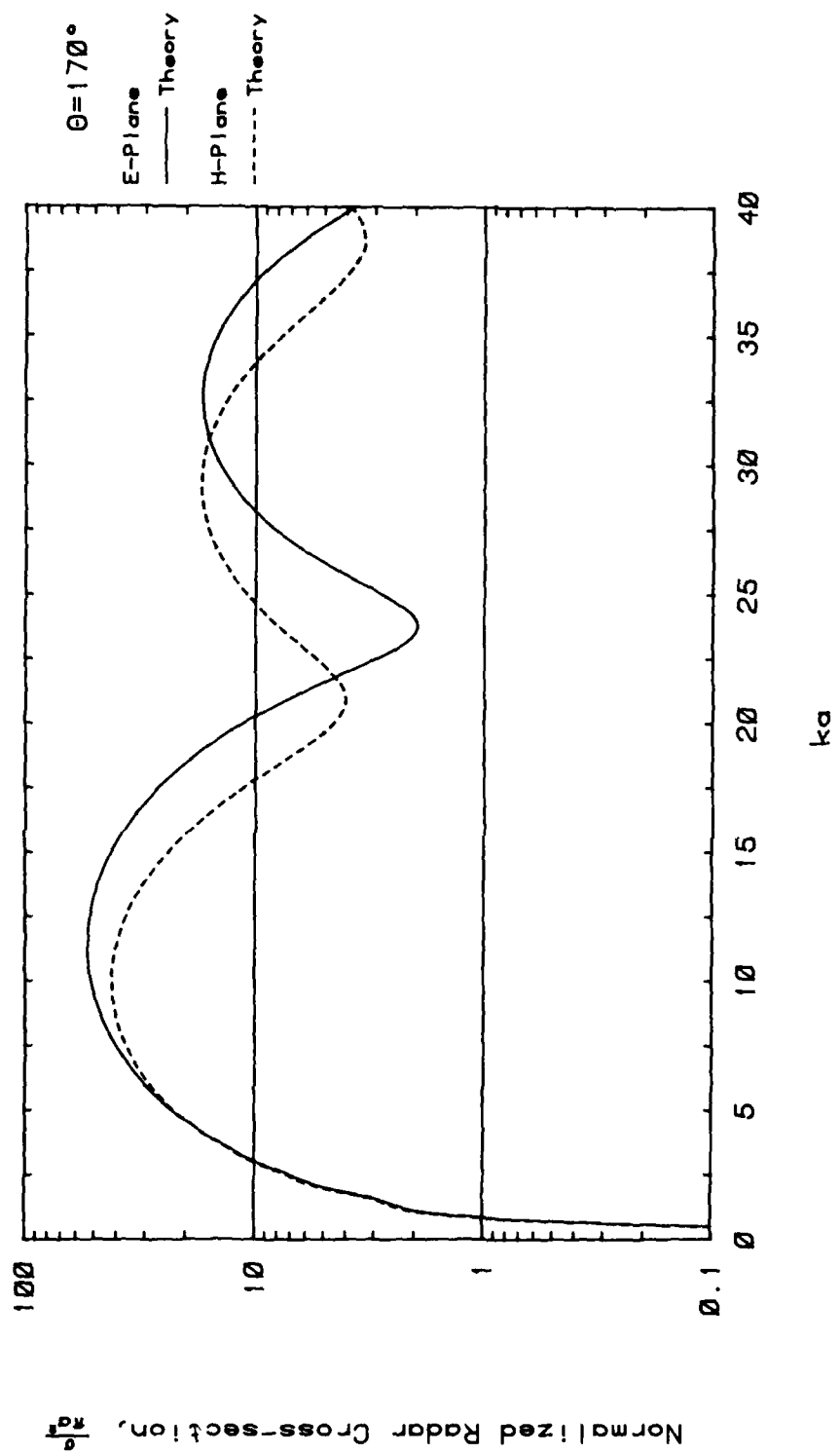


Figure 22. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 170^\circ$

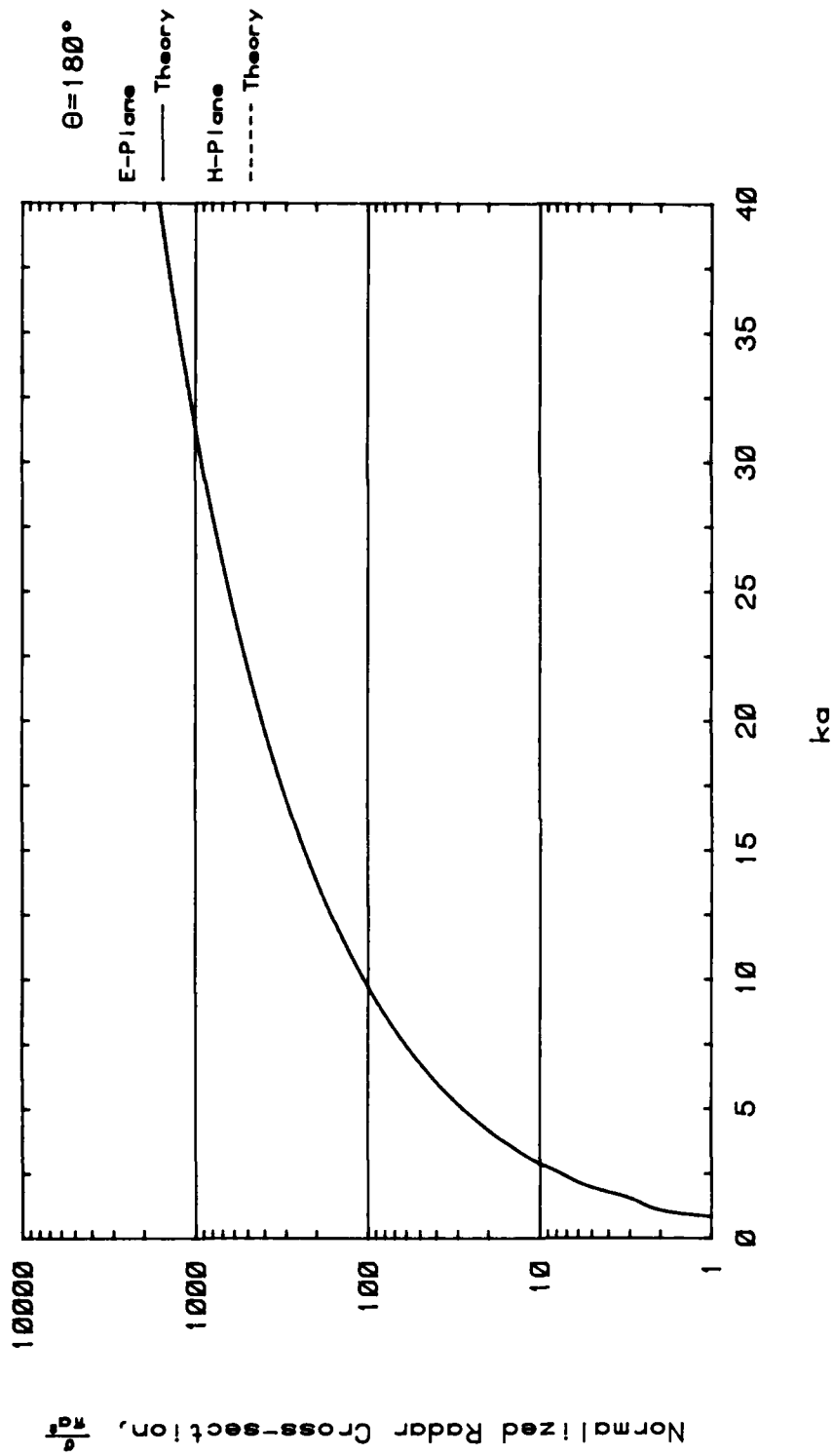
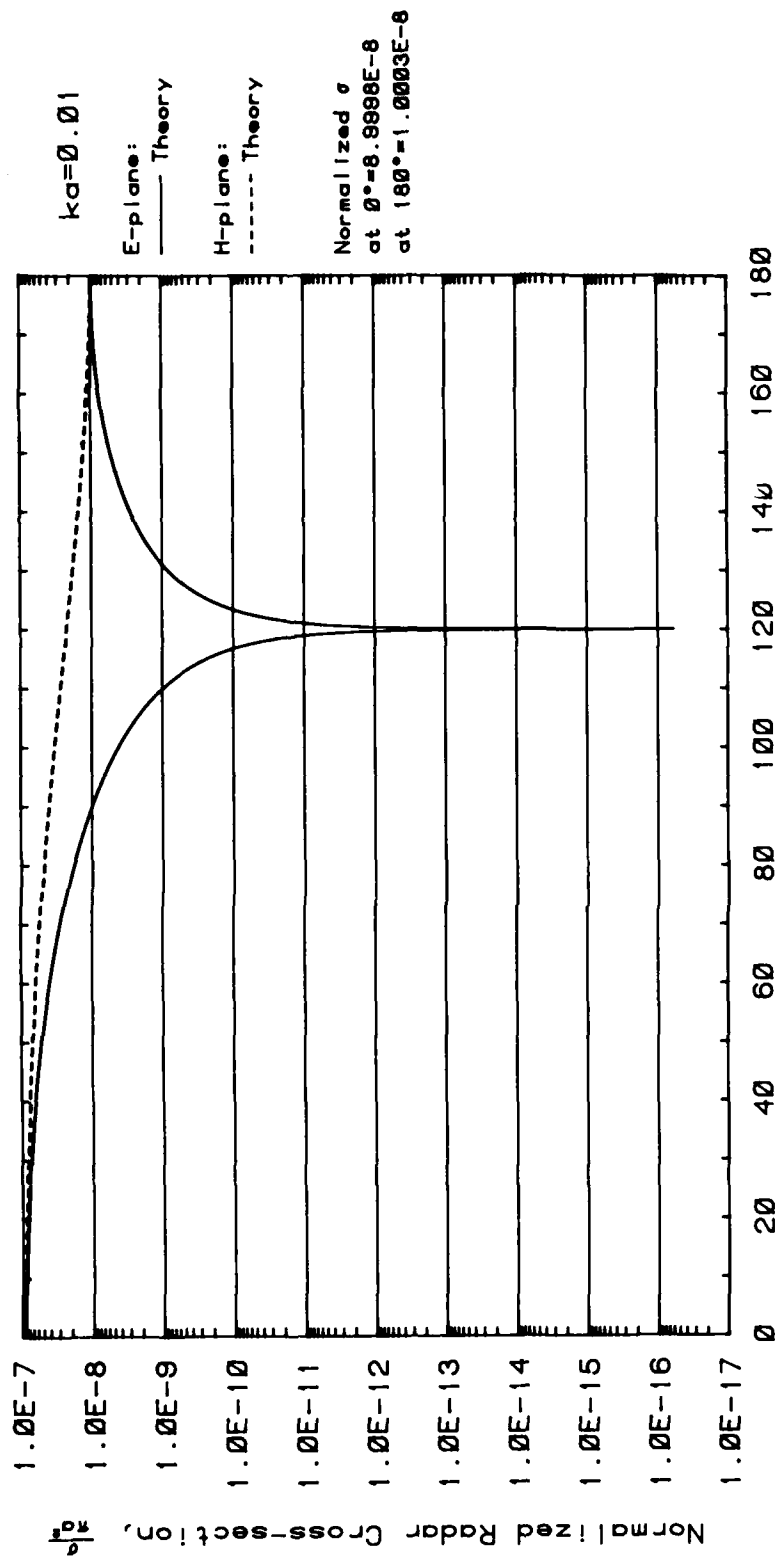


Figure 23. Plot of $\sigma/\pi a^2$ vs ka for $\theta = 180^\circ$



Angle from Backscatter Direction [Degrees]

Figure 24. Plot of $\sigma/\pi a^2$ vs θ for $ka = 0.01$

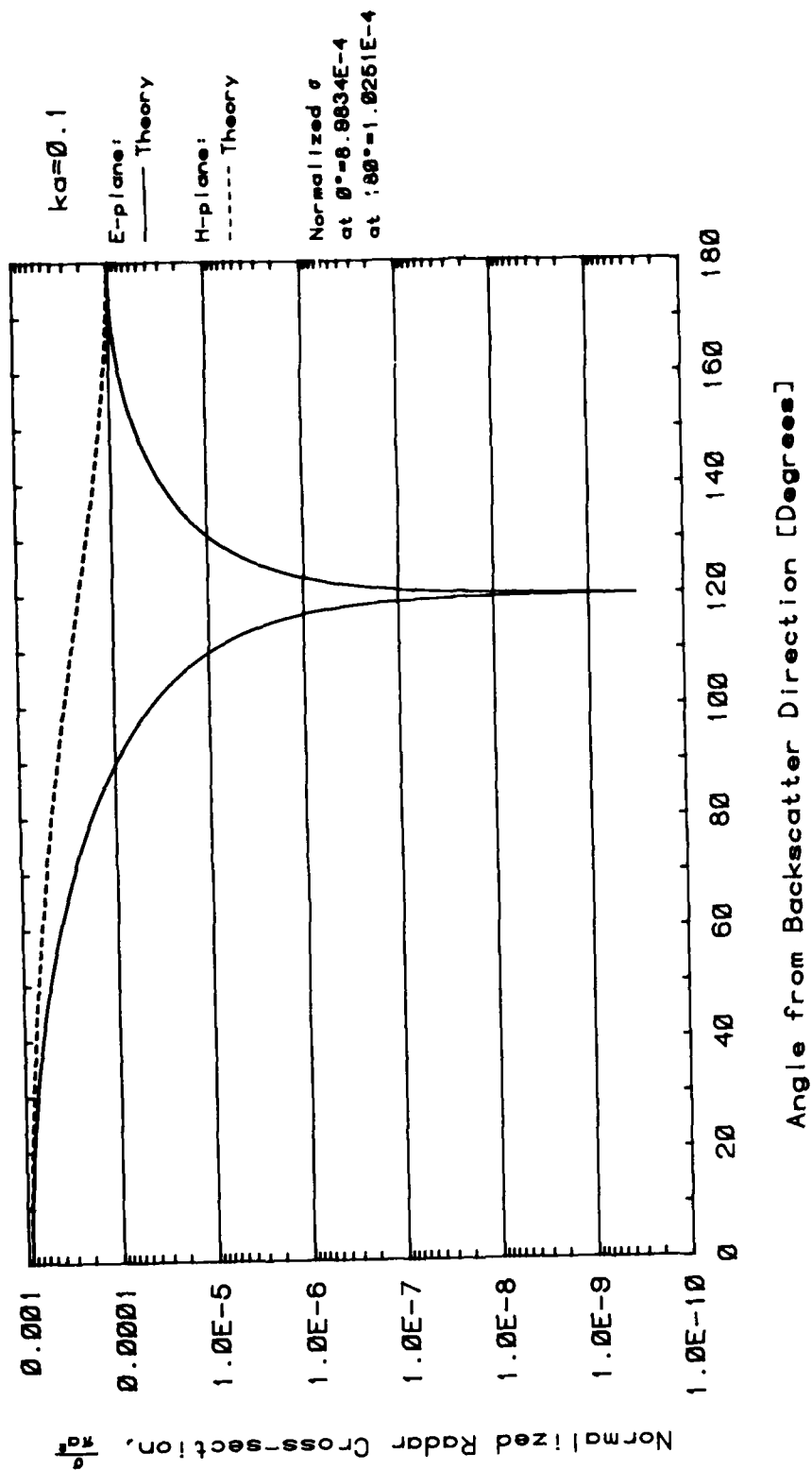


Figure 25. Plot of $\sigma/\pi a^2$ vs θ for $ka = 0.1$

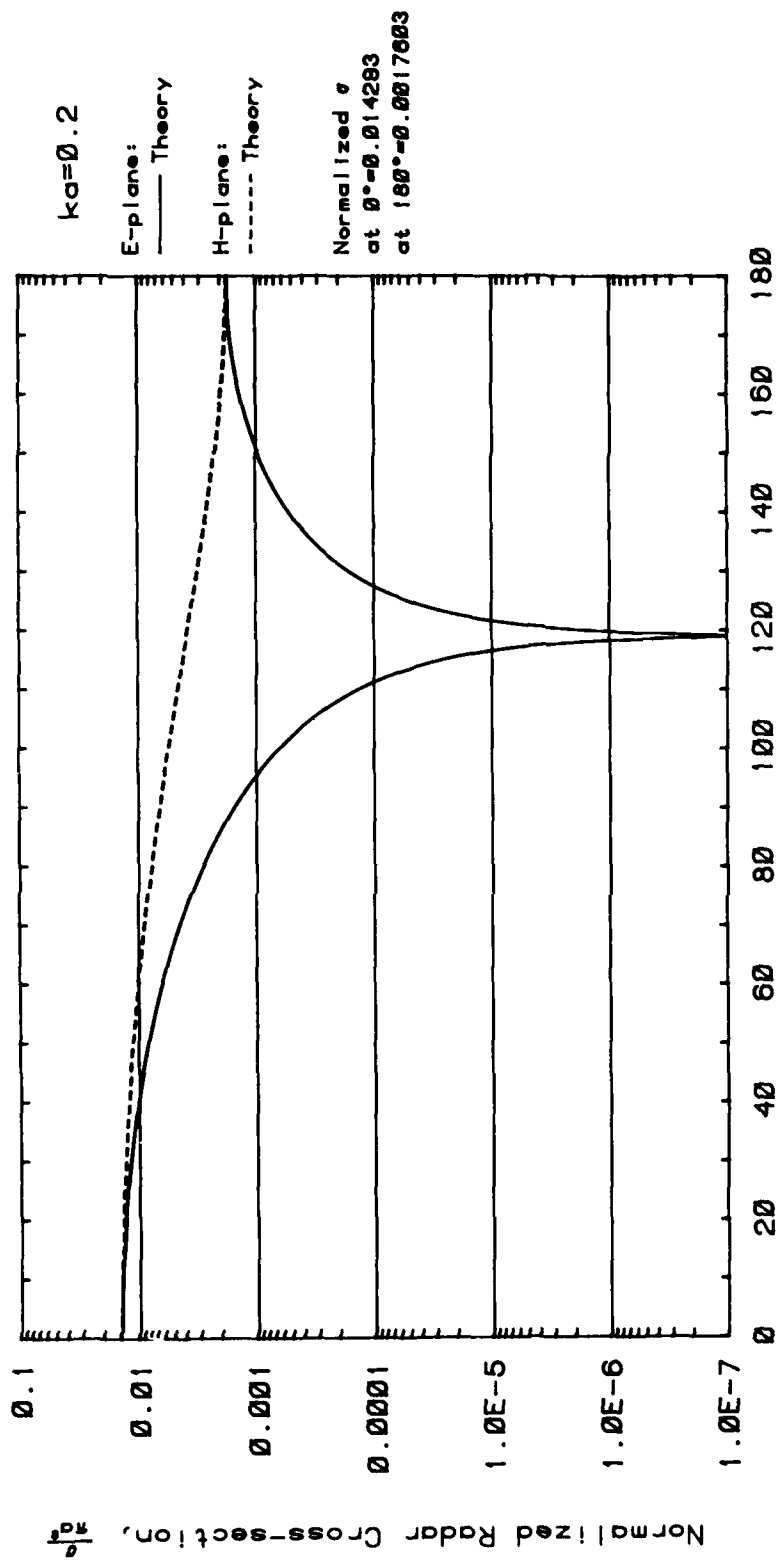


Figure 26. Plot of $\sigma/\pi a^2$ vs θ for $ka = 0.2$

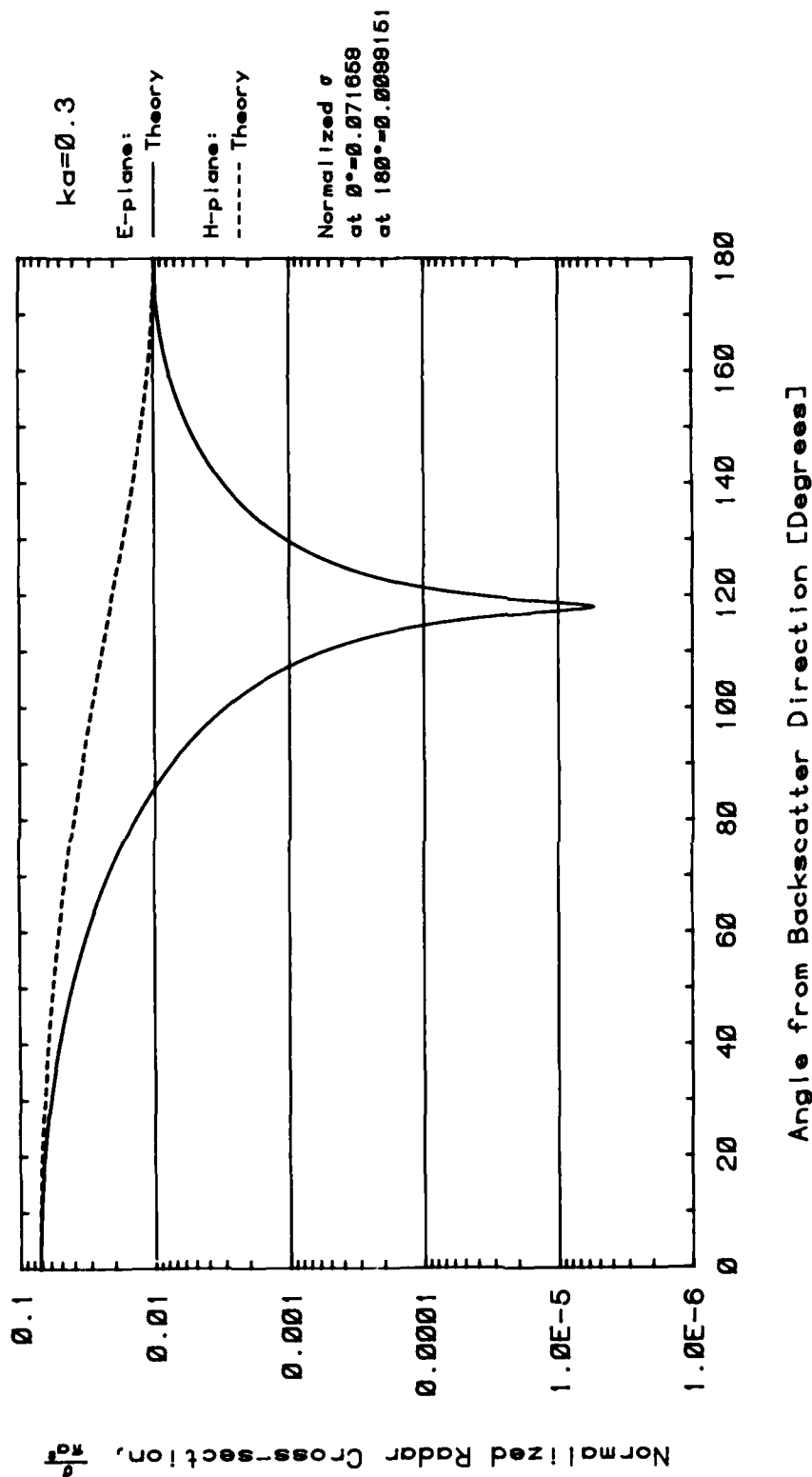


Figure 27. Plot of $\sigma/\pi a^2$ vs θ for $ka = 0.3$

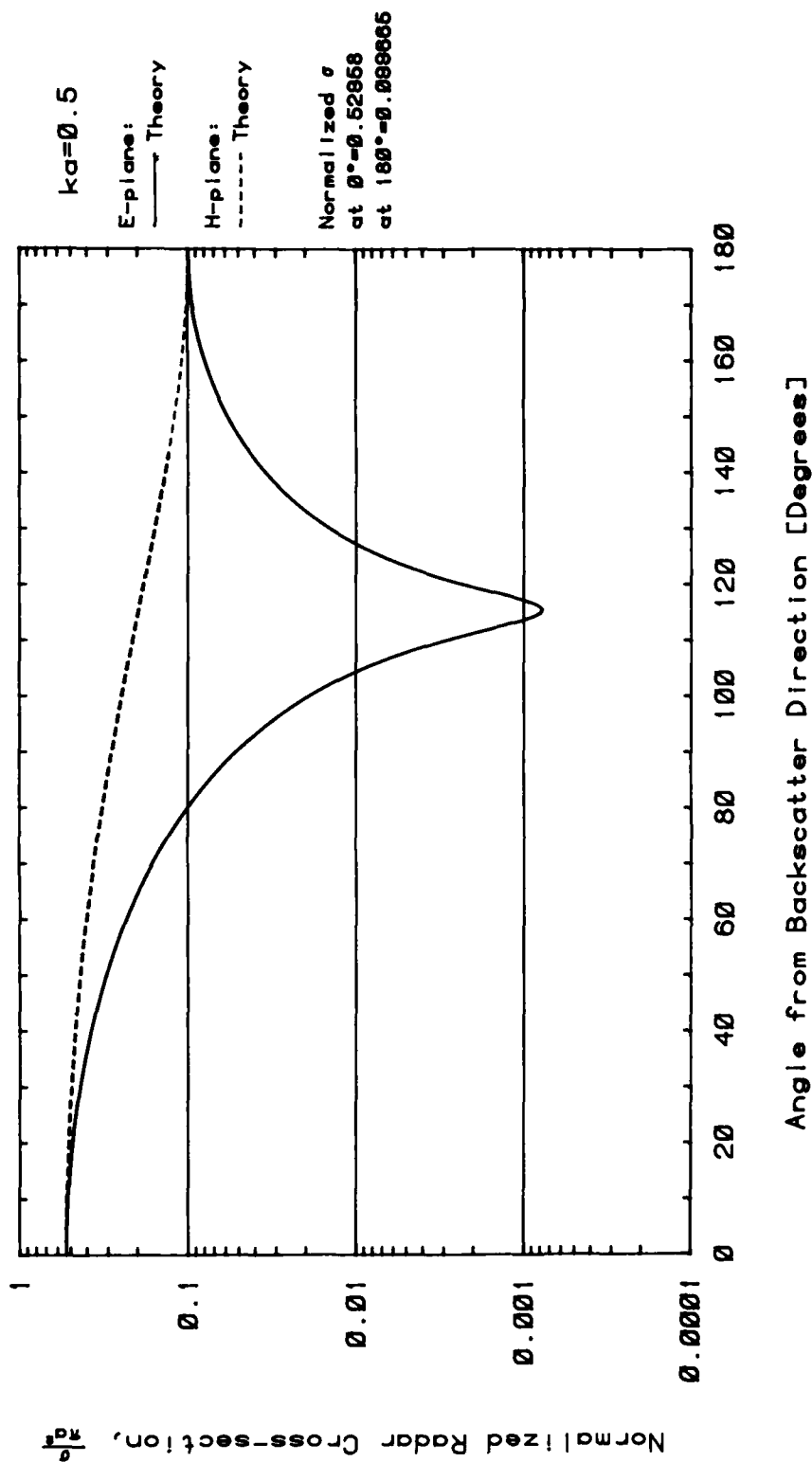


Figure 28. Plot of $\sigma/\pi a^2$ vs θ for $ka = 0.5$

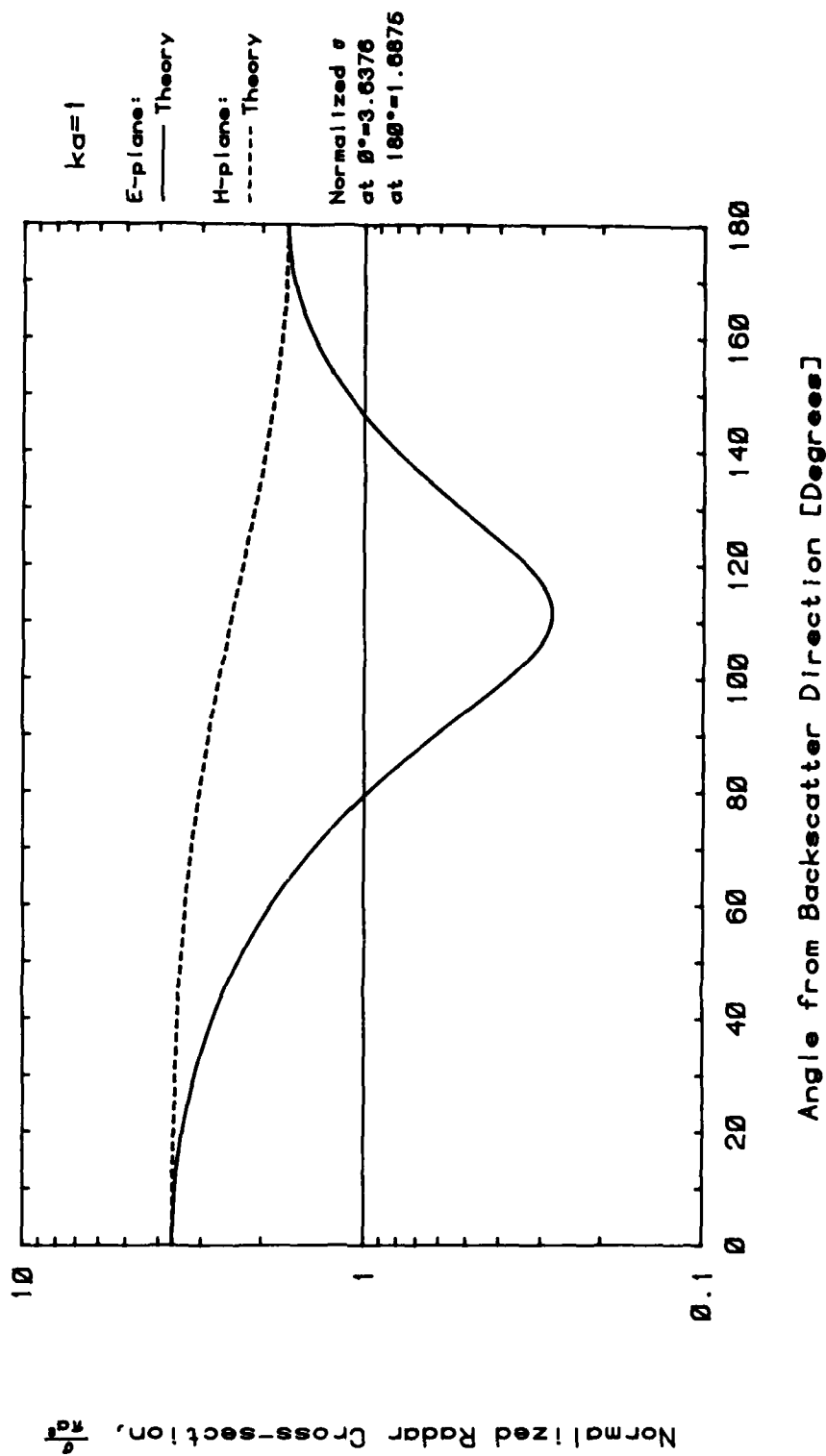
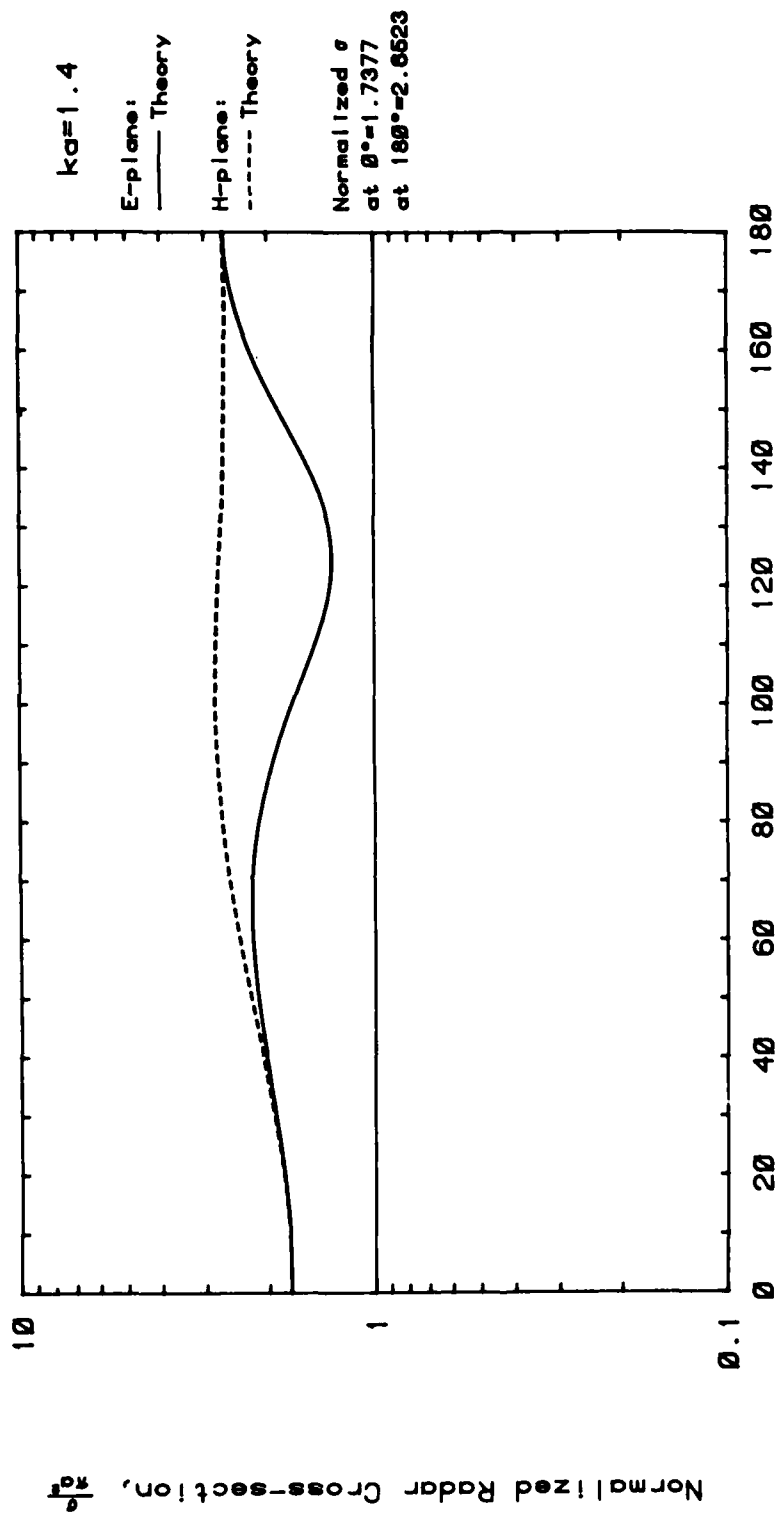


Figure 29. Plot of $\sigma/\pi a^2$ vs θ for $ka = 1.0$



Angle from Backscatter Direction [Degrees]

Figure 30. Plot of $\sigma/\pi a^2$ vs θ for $ka = 1.4$

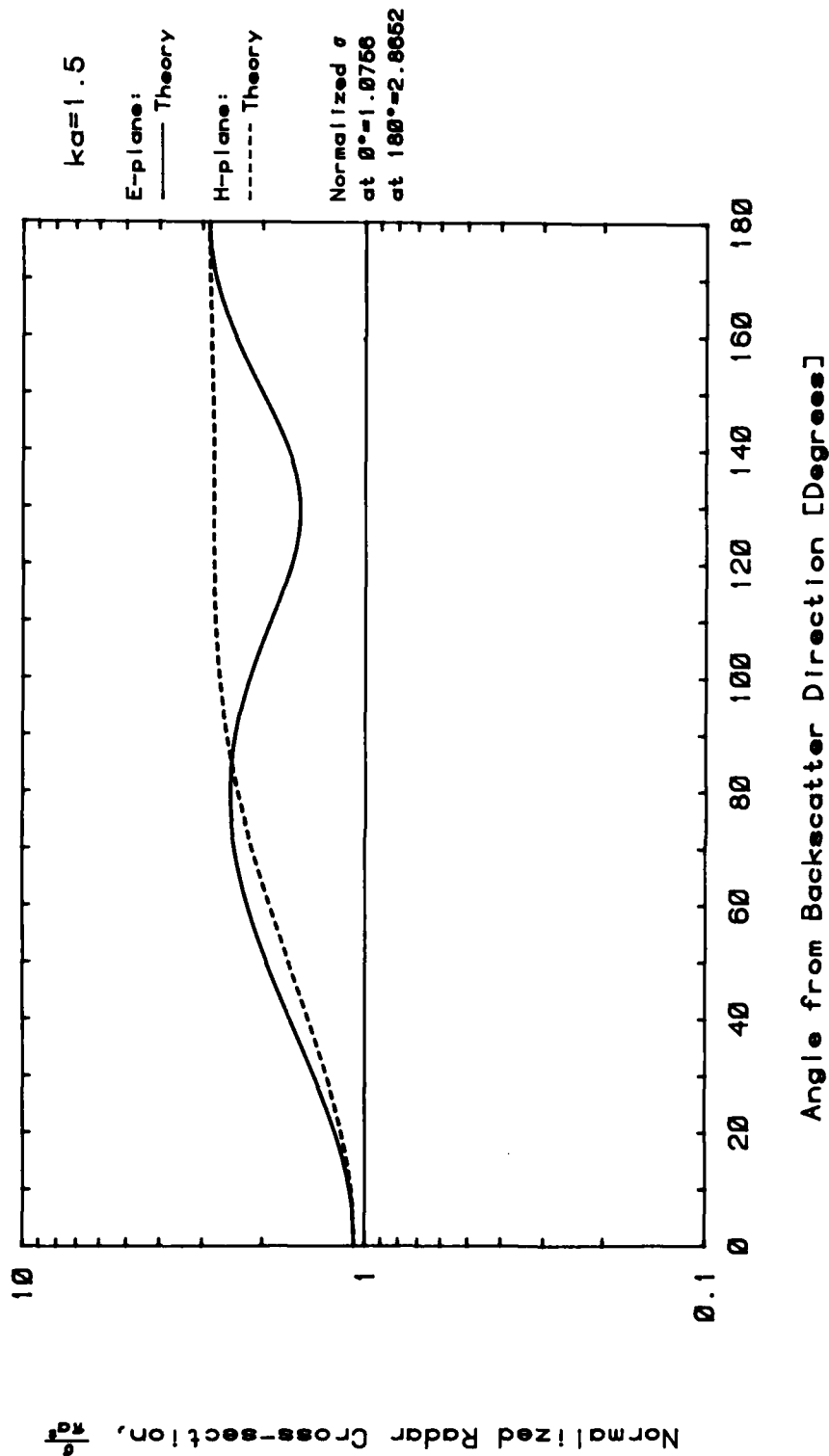


Figure 31. Plot of $\sigma/\pi a^2$ vs θ for $ka = 1.5$

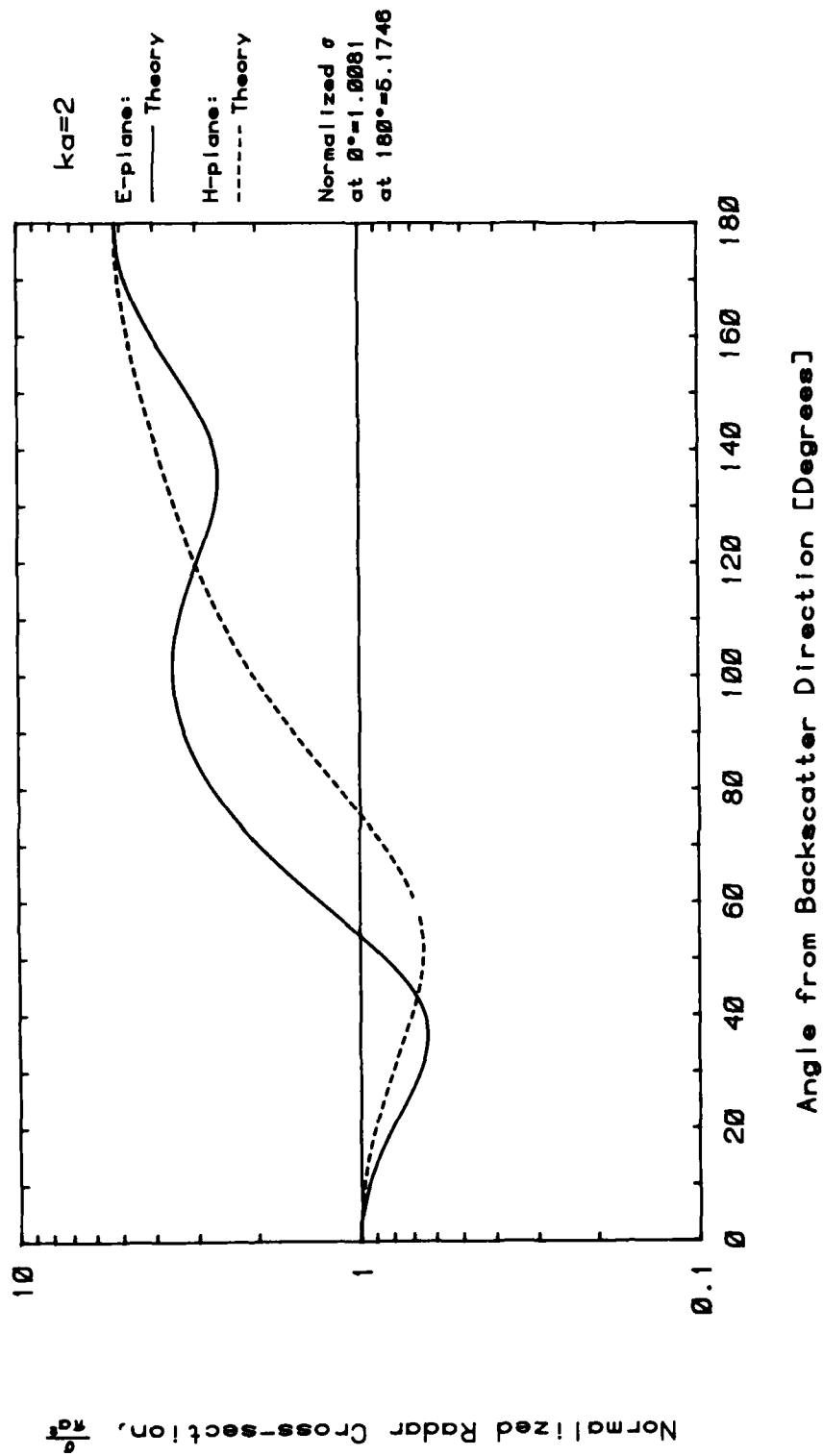


Figure 32. Plot of $\sigma/\pi a^2$ vs θ for $ka = 2.0$

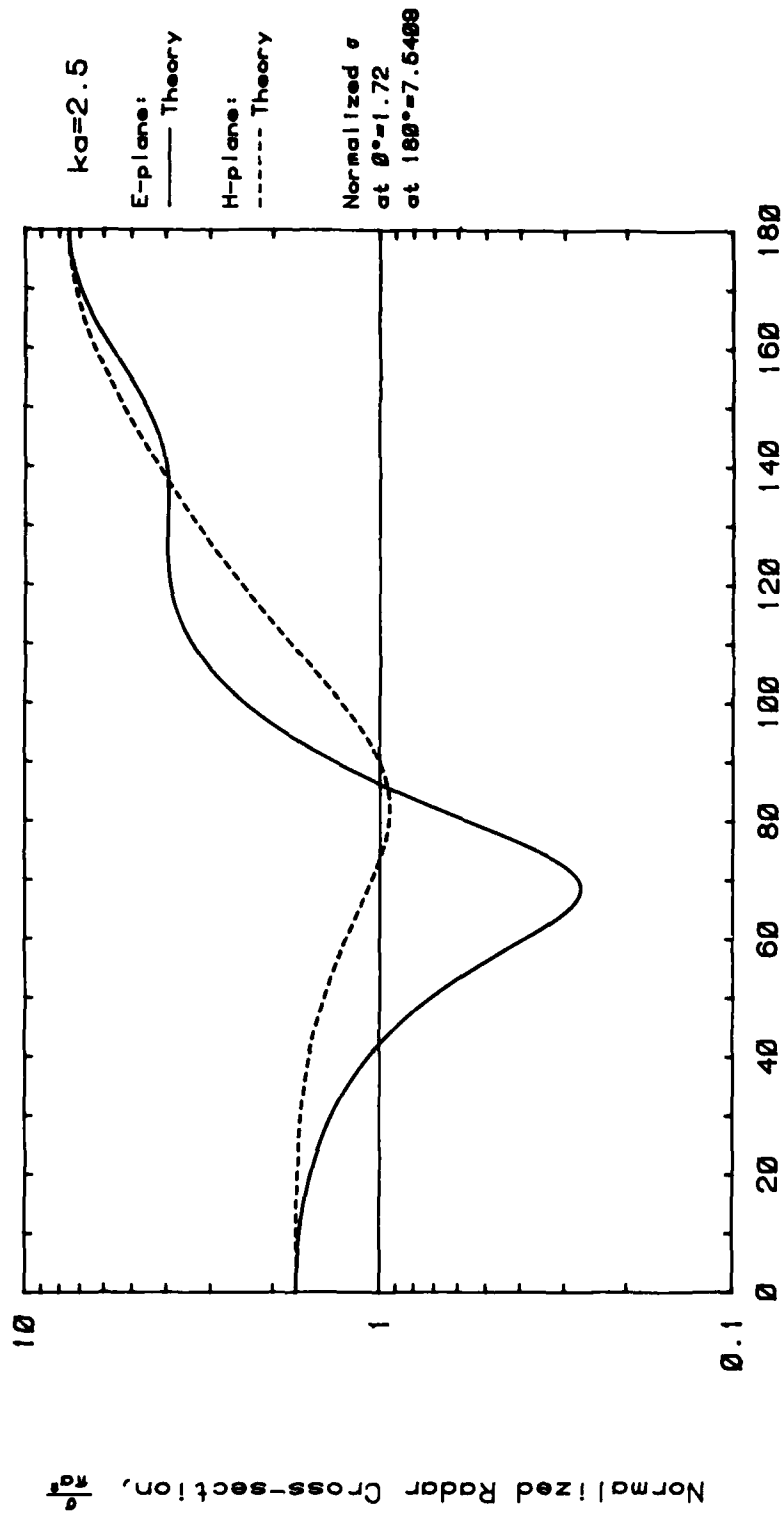


Figure 33. Plot of $\sigma/\pi a^2$ vs θ for $ka = 2.5$

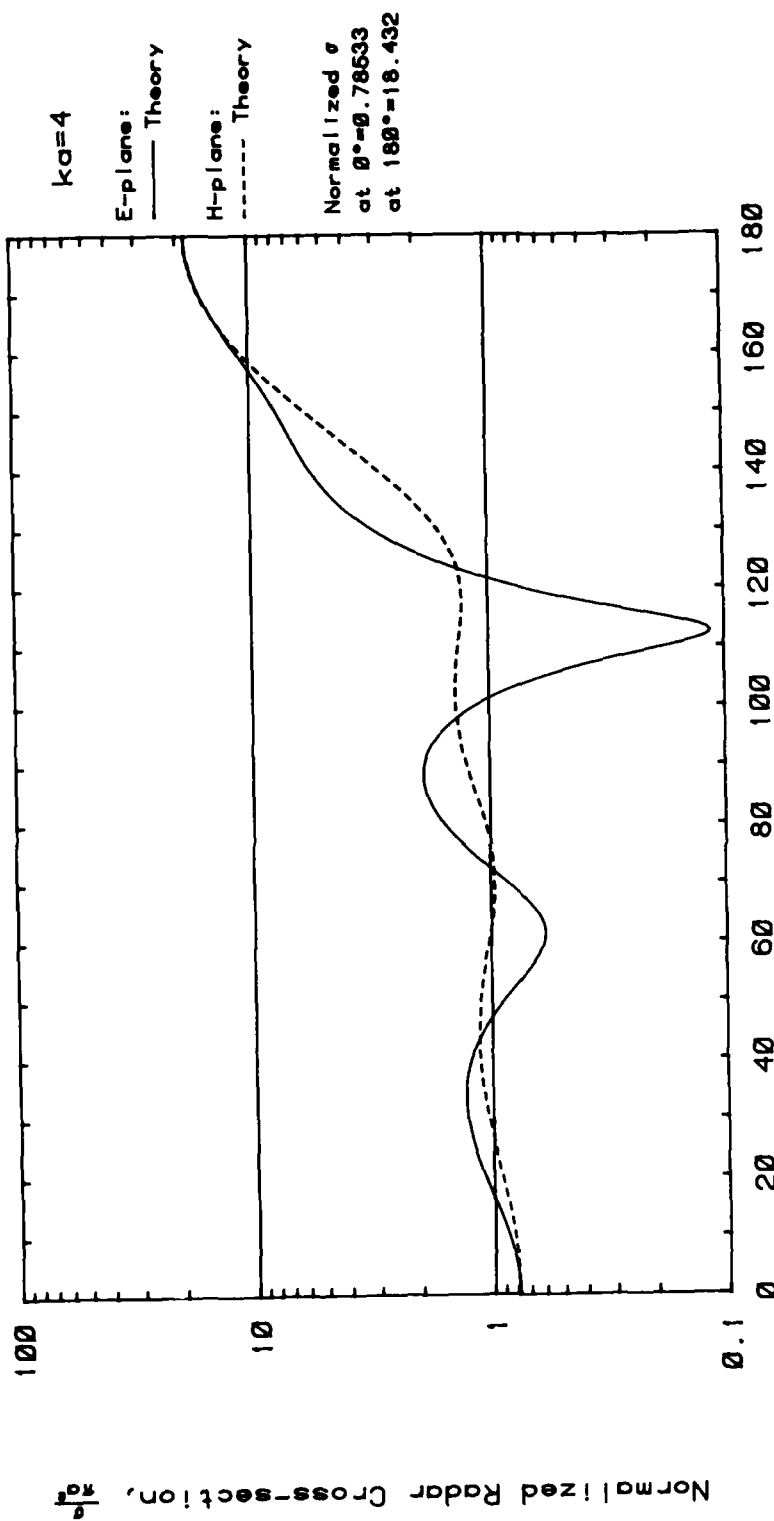


Figure 34. Plot of $\sigma/\pi a^2$ vs θ for $ka = 4.0$

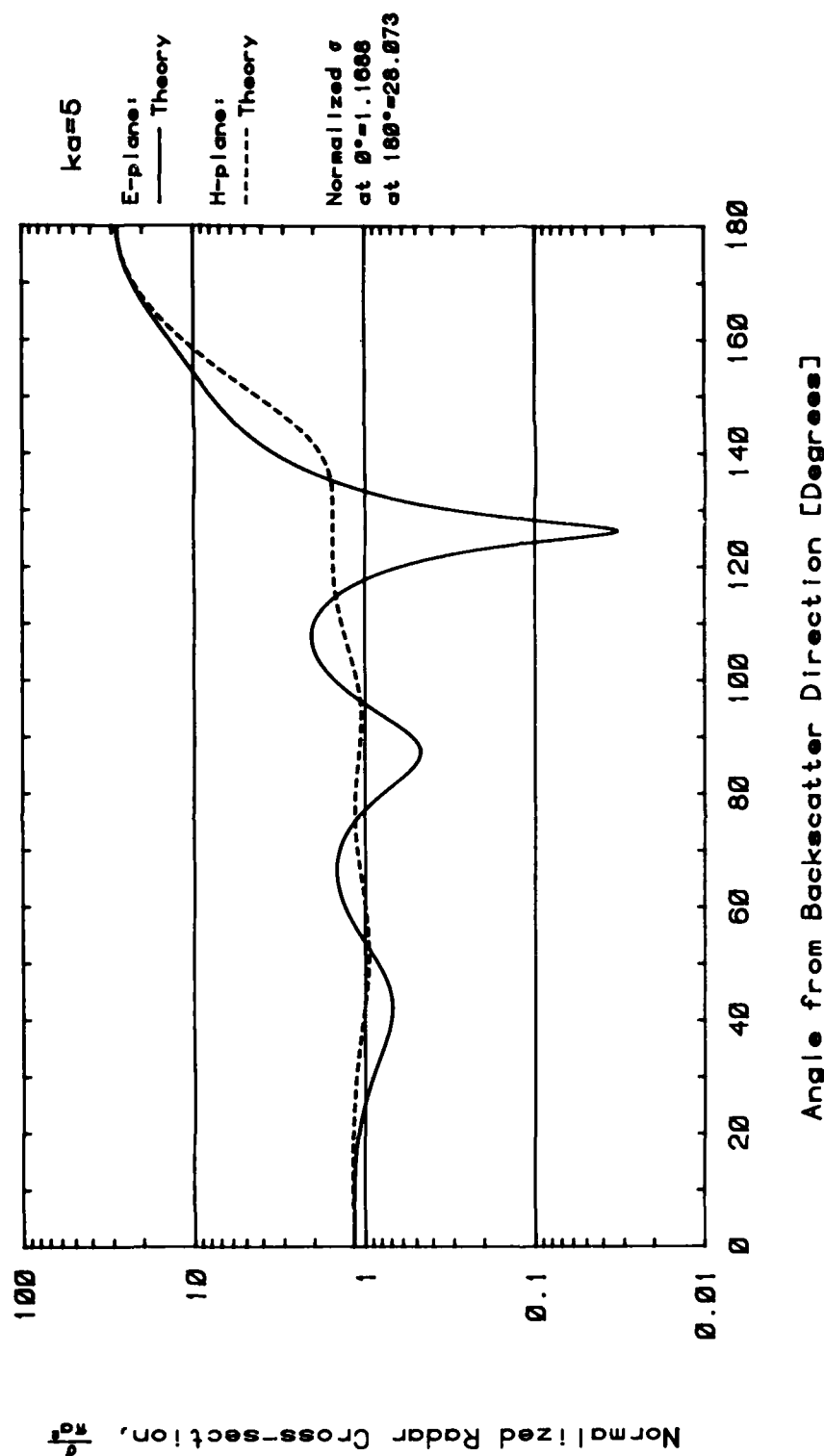


Figure 35. Plot of $\sigma/\pi a^2$ vs θ for $ka = 5.0$

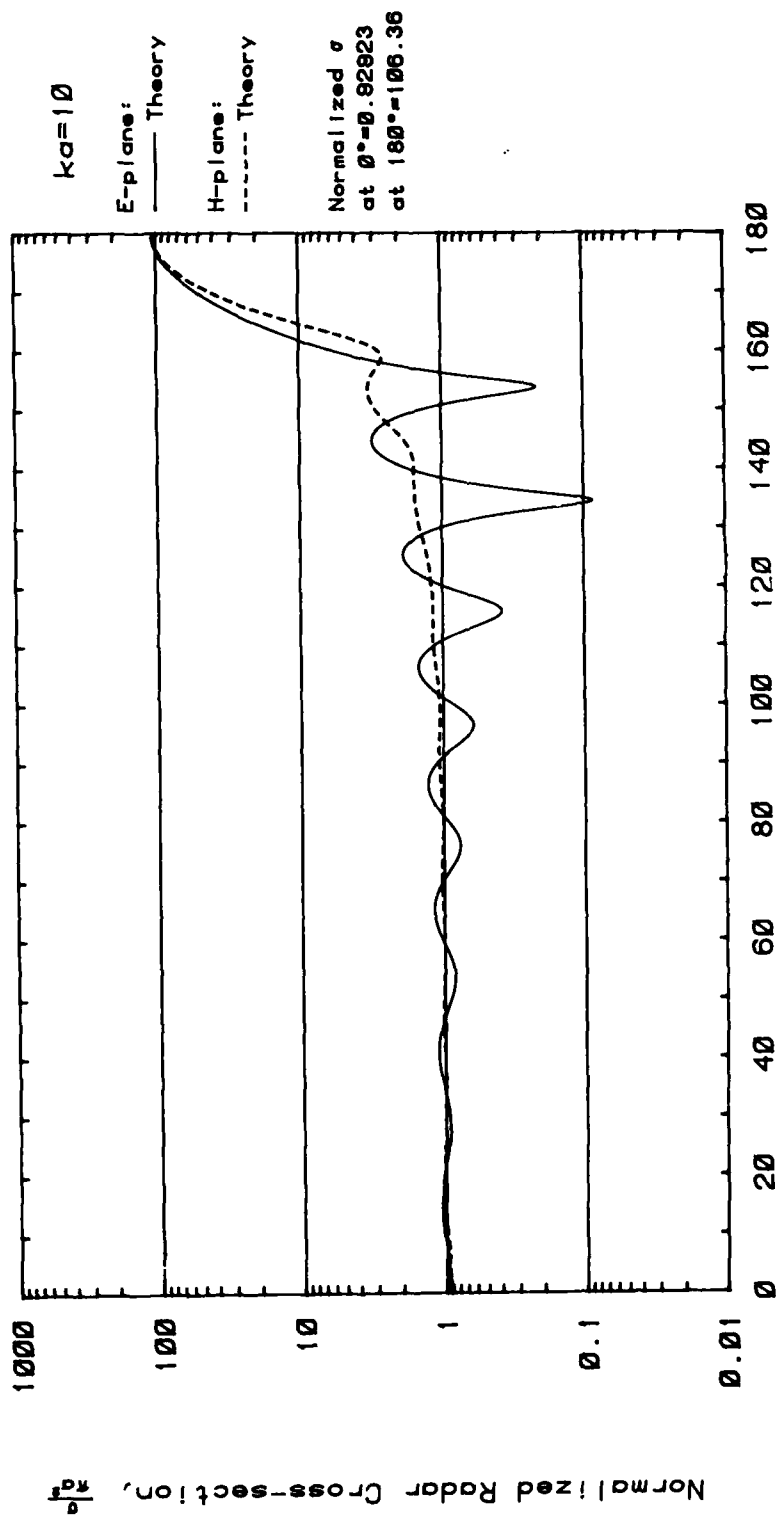


Figure 36. Plot of $\sigma/\pi a^2$ vs θ for $ka = 10.0$

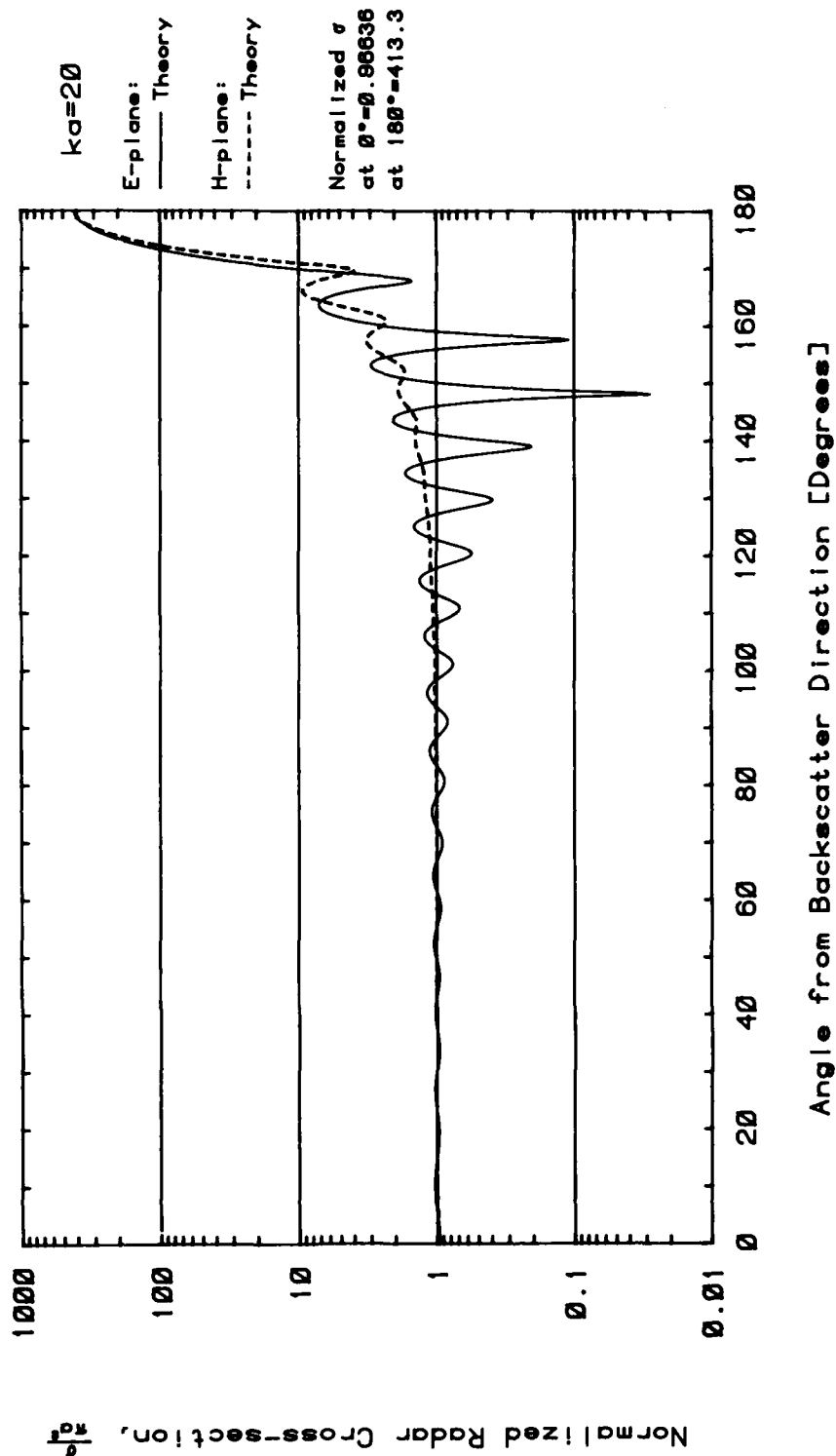


Figure 37. Plot of $\sigma/\pi a^2$ vs θ for $ka = 20.0$

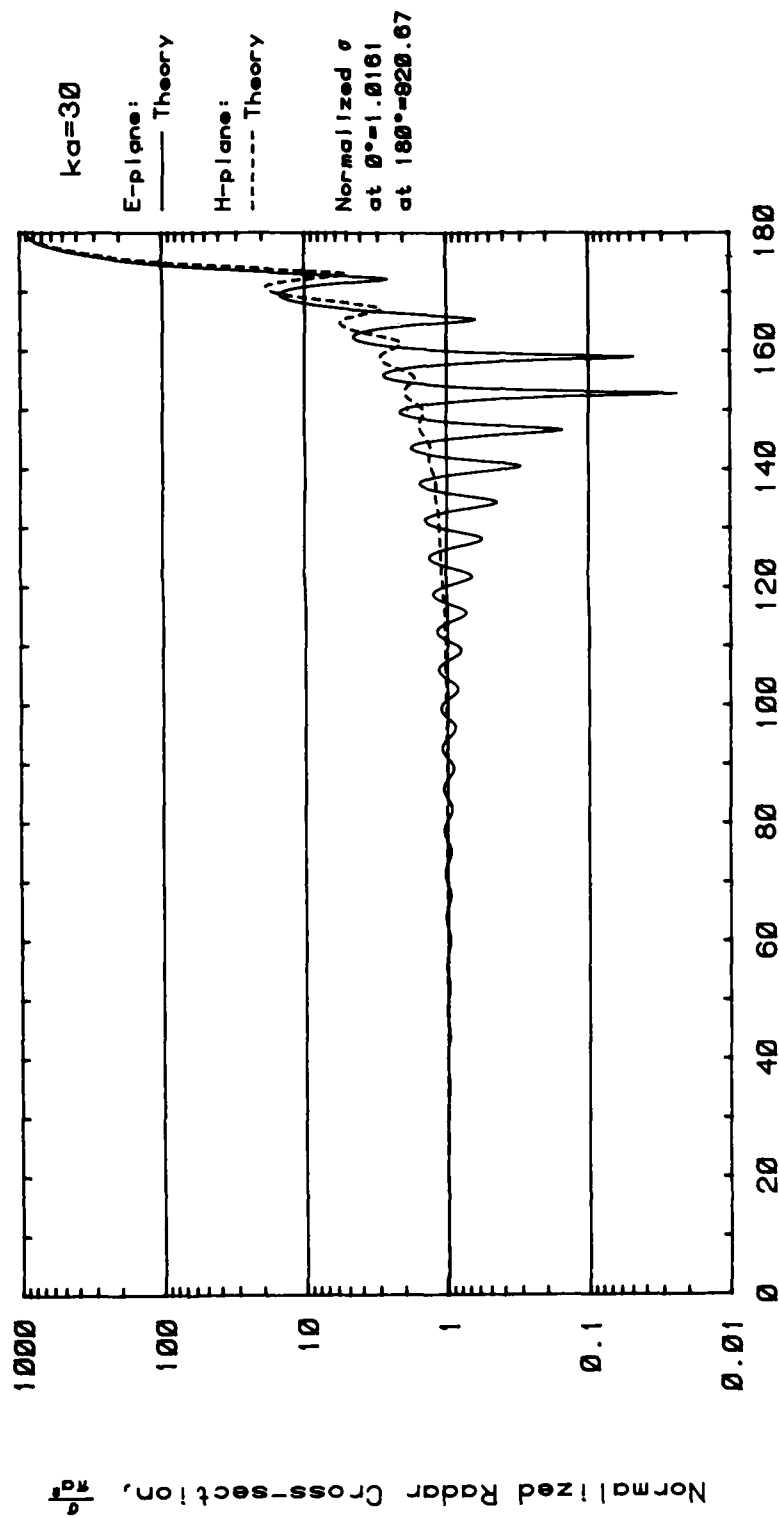


Figure 38. Plot of $\sigma/\pi a^2$ vs θ for $ka = 30.0$

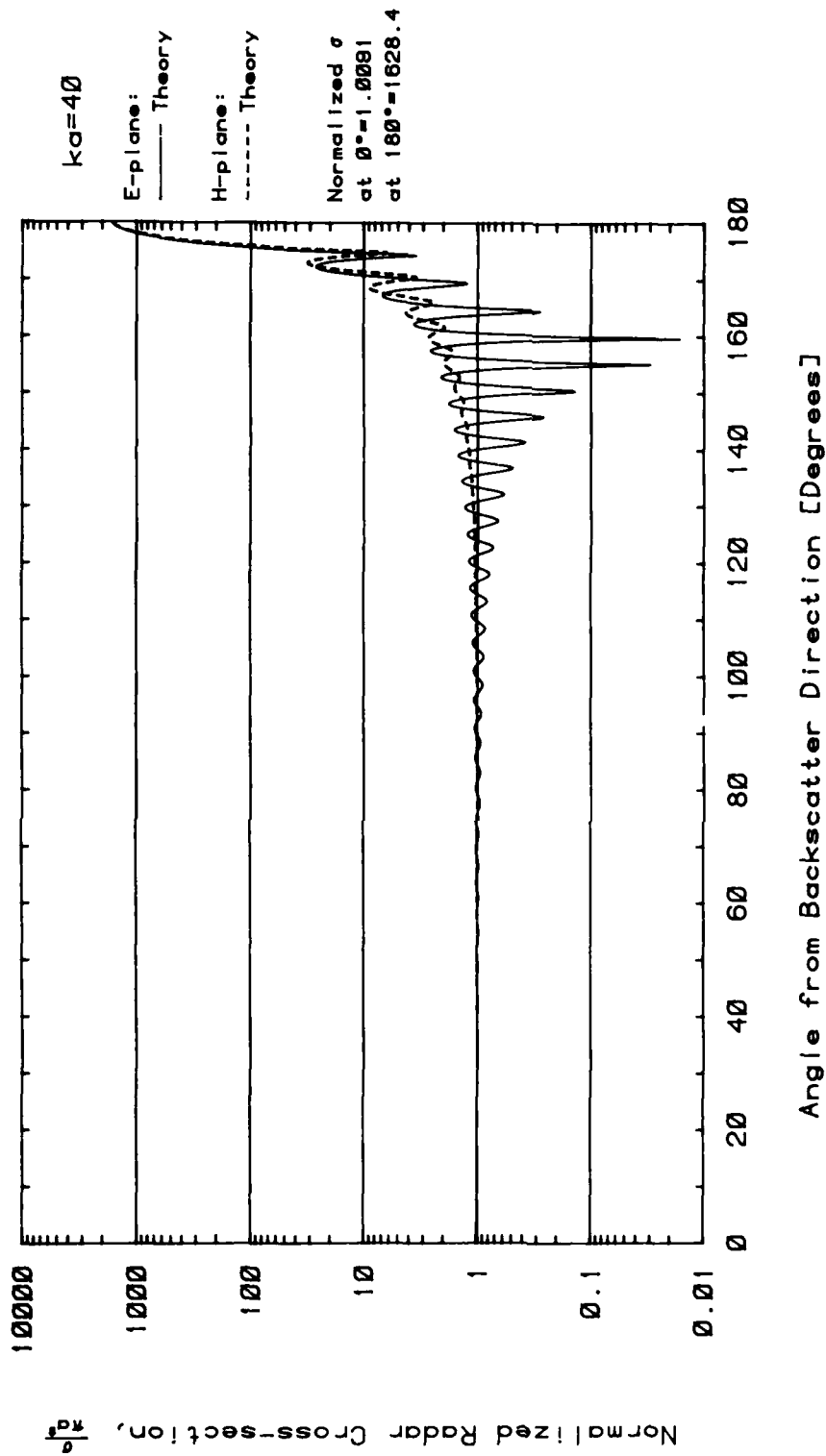


Figure 39. Plot of $\sigma/\pi a^2$ vs θ for $ka = 40.0$

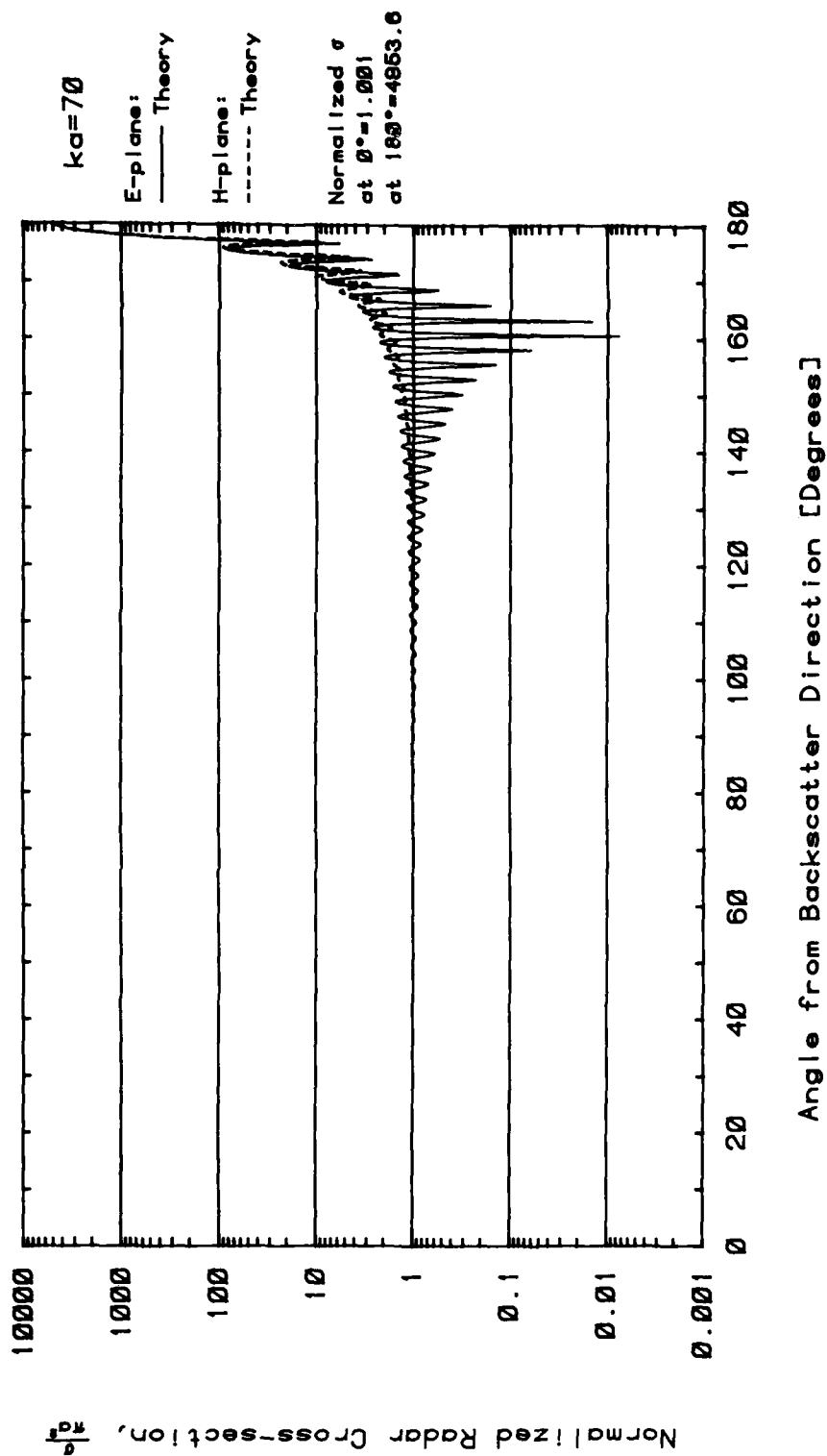


Figure 40. Plot of $\sigma/\pi a^2$ vs θ for $ka = 70.0$

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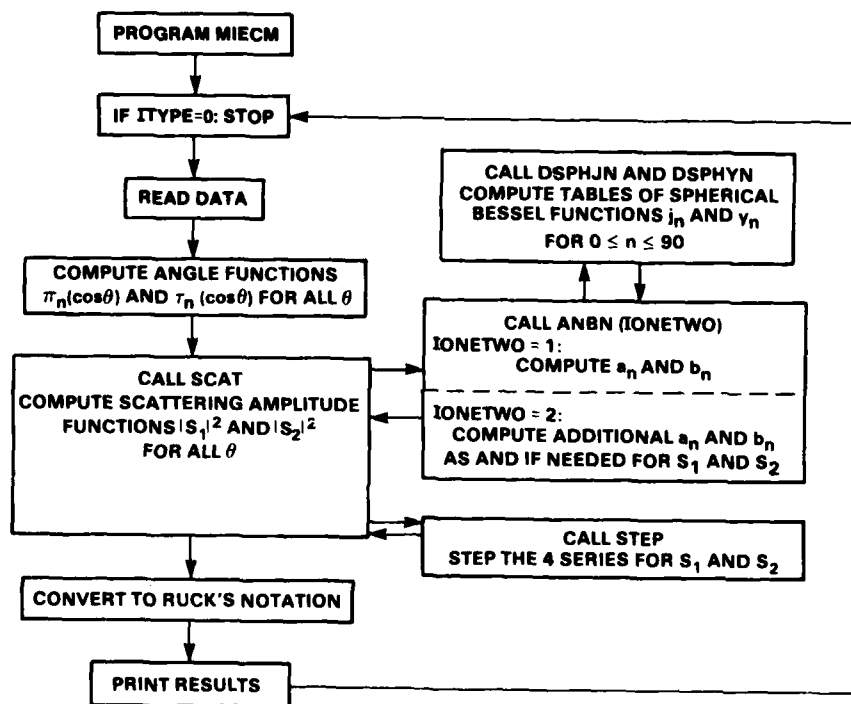


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Appendix A

Flow Chart of Program MIECM



Appendix B

Program MIECM Listing

PROGRAM MIECM(TAPE1,TAPE2,TAPE6)	000100
COMMON/ALL/FACTR,TOL,NTOL,KOUT,PN(19,90),TN(19,90)	000110
COMMON/SCAN/ALF,ANI(162),ANR(162),BNI(162),BNR(162),	000120
1 CSC,CXT,LMDA,NDEL,NMAX,PI,PNPR(19,3),NCSC,NCXT	000130
TYPE REAL KA,LMDA	000140
COMMON/MSA,DELTH,ITYPE,NMAXSAV,NTOP,THZ	000150
COMMON/MSISC/CAPKSC,CAPKXT,S1SQ(19),S2SQ(19)	000160
DATA(TEST=0.005),(LIM=10)	000170
REWIND 2	000180
CALL CONNEC(1)	000190
CALL CONNEC(6)	000200
PI=3.1415926535898	000210
NMAX SAV=NMAX	000220
PRINT(6,18)	000230
18 FORMAT(24(1H*))	000240
C	000250
C INPUT INITIALIZING INFO	000260
C	000270
20 PRINT(6,*)"TYPE 1 TO RUN, 0 TO STOP >"	000280
READ (1,*) ITYPE	000290
IF(ITYPE.EQ. 0) GO TO 67	000300
PRINT(6,*)"TYPE 0 FOR KA, 1 FOR FREQ INPUT >"	000310
READ (1,*) ITYPE	000320
IF(ITYPE.EQ.0) GO TO 22	000330
PRINT(6,*)"INPUT FREQ, RADIUS(CM) >"	000340
READ (1,*) FREQ,A	000350
LMDA=2.998EB/FREQ	000360
A=A*.01	000370
KA=2.0*PI*A/LMDA	000380
GO TO 25	000390
22 PRINT(6,*)"INPUT KA, LAMBDA(CM) >"	000400
READ (1,*) KA,LMDA	000410
LMDA=LMDA*.01	000420
A=KA*LMDA/2.0/PI	000430
25 PRINT(6,*) "INPUT PHI', THETA' SUB ZERO >"	000440
READ (1,*) PHI,THZR	000450
PRINT(6,*) "INPUT DELTA THETA', NUMBER OF THETA' >"	000460
READ (1,*) DELTHR,NRTH	000470
PHI1=PHI+90.0	000480
C	000490
C CONVERT POLARIZATION ANGLES TO RADIAN'S AND FROM KERKER'S	000500
C COORDINATE SYSTEM TO RUCK'S COORDINATE SYSTEM	000510
C	000520
PHI=(90.0-PHI)*PI/180.0	000530
PHI1=(90.0-PHI1)*PI/180.0	000540
CSPHISQ=COS(PHI)*COS(PHI)	000550
SNPHISQ=SIN(PHI)*SIN(PHI)	000560
CSPHISQ=COS(PHI1)*COS(PHI1)	000570
SNPHISQ=SIN(PHI1)*SIN(PHI1)	000580
IPHI=IFIX(PHI)	000590
IPHI1=IFIX(PHI1)	000600
C	000610
C CONVERT SCATTERING ANGLES FROM RUCK'S THETA' NOTATION	000620
C TO KERKER'S THETA NOTATION	000630
C SEE REFS. "RADAR CROSS SECTION HANDBOOK, VOL 1" BY RUCK	000640
C ,ET AL, AND "THE SCATTERING OF LIGHT AND OTHER	000650
C ELECTROMAGNETIC RADIATION" BY KERKER FOR DETAILS	000660
C	000670
THZ=180.0-THZR	000680
DELTH=-DELTHR	000690

	PRINT(2,26) NRTH,A,LMDA,KA	000700
28	FORMAT(I4,E11.4,E11.4,F8.3)	000710
	FNRTH=FLOAT(NRTH)	000720
	PM1=FNRTH/19.	000730
	MP1=INT(PM1)	000740
	FMP1=FLOAT(MP1)	000750
	MNRTH=MP1-1	000760
	IF(PM1 .GT. FMP1) MNRTH=MP1	000770
	NNRTH=NRTH-19-MNRTH	000780
	MNRTH=MNRTH+1	000790
	DO 66 MRTH=1,MNRTH	000800
	NTOP=19	000810
	IF(MRTH .EQ. MNRTH) NTOP=NNRTH	000820
	DO 26 N=1,NTOP	000830
	DTS=(MRTH-1)*19+N-1	000840
	TH RAD=(TH Z+DTS*DEL TH)*PI/180.0	000850
	COS TH=COS(TH RAD)	000860
	SIN TH=SIN(TH RAD)	000870
	PN(N,1)=1.0	000880
	PN(N,2)=3.0*COS TH	000890
	TN(N,1)=COS TH	000900
	TN(N,2)=3.0*(COS TH**2-SIN TH**2)	000910
	PNPR(N,1)=0.	000920
	PNPR(N,2)=3.0	000930
	DO 24 K=3,NMAX SAV	000940
	DK=K	000950
	DTS=2.0*DK-1.0	000960
	PN(N,K)=COS TH*(DTS/(DK-1.0))*PN(N,K-1)-(DK/(DK-1.0))*PN(N,K-2)	000970
	PNPR(N,3)=DTS*PN(N,K-1)+PNPR(N,1)	000980
	TN(N,K)=COS TH*PN(N,K)-SIN TH*SIN TH*PNPR(N,3)	000990
	PNPR(N,1)=PNPR(N,2)	001000
	PNPR(N,2)=PNPR(N,3)	001010
24	CONTINUE	001020
26	CONTINUE	001030
	CALL SCAT	001040
	DO 36 I=1,NTOP	001050
		001060
C		001070
C	CONVERT SCATTERING ANGLES BACK TO RUCK'S THETA' NOTATION	001080
C		001090
	THSNGL=THZR+((MRTH-1)*19+I-1)*DELTMR	001100
	TS=(LMDA/PI)**2	001110
	PRNT1=TS*(S1SQ(I)*CSPHISQ+S2SQ(I)*SNPHISQ)	001120
	PRNT1=PRNT1/A**2	001130
	PRNT2=TS*(S1SQ(I)*CSPHISQ+S2SQ(I)*SNPHISQ)	001140
	PRNT2=PRNT2/A**2	001150
34	PRINT(2,34) TH SNGL,PRNT1,PRNT2	001160
36	FORMAT(F6.1,1P,2E11.4)	001170
66	CONTINUE	001180
	PRINT(6,18)	001190
	GO TO 20	001200
67	CONTINUE	001210
	CALL DISCON(1)	001220
	CALL DISCON(6)	001230
	REWIND 2	001240
	END	001250
C		001260
C		001270
C		001280
	SUBROUTINE STEP(I,K,PN FACT,TN FACT,SUM,TERM,NCONSEC,N USED)	001290

	COMMON/ALL/FACTR,TOL,NTOL,KOUT,PN(19,90),TN(19,90)	001300
	IF(NCONSEC .EQ. NTOL) RETURN	001310
	TERM=FACTR*(PN FACT*PN(I,K)+TN FACT*TN(I,K))	001320
	SUM=SUM+TERM	001330
	N USED=N USED+1	001340
	IF(ABS(TERM/SUM) .GT. TOL) 20,22	001350
20	N CONSEC=0	001360
	RETURN	001370
22	N CONSEC=N CONSEC+1	001380
	IF(N CONSEC .EQ. NTOL) KOUT=KOUT+1	001390
	RETURN	001400
	END	001410
C		001420
C		001430
C		001440
	SUBROUTINE SCAT	001450
	COMMON/ALL/FACTR,TOL,NTOL,KOUT,PN(19,90),TN(19,90)	001460
	COMMON/SCAN/ALF,ANI(162),ANR(162),BNI(162),BNR(162),	001470
	1 CSC,CXT,LMDA,NDEL,NMAX,PI,PNPR(19,3),NCSC,NCXT	001480
	TYPE REAL LMDA	001490
	COMMON/MSISC/CAPKSC,CAPKXT,S1SQ(19),S2SQ(19)	001500
	COMMON/MSA/DELTH,ITYPE,NMAXSAV,NTOP,THZ	001510
	DATA(TOL=1E-3),(NTOL=6),(NMAX=90),(NDEL=10)	001520
	NMAX=NMAX SAV	001530
	ALF=2.0*PI*A/LMDA	001540
	I ONE TWO=1	001550
	NLO=1	001560
	NHI=NMAX	001570
	CALL AN BN(I ONE TWO,NLO,NHI,NTAB)	001580
	CAP K SC=CSC/(PI*A*A)	001590
	CAP K XT=CXT/(PI*A*A)	001600
	DO 36 I=1,NTOP	001610
	S1R=S1I=S2R= 2I=0.	001620
	N S1R=N S1I=N S2R=N S2I=0	001630
	N S1R TOL=N S1I TOL=N S2R TOL=N S2I TOL=0	001640
	K OUT=0	001650
	KLO=1	001660
	KHI=NTAB	001670
26	DO 30 K=KLO,KHI	001680
	DK=K	001690
	FACTR=(2.0*DK+1.0)/(DK*(DK+1.0))	001700
	CALL STEP(I,K,ANR(K),BNR(K),S1R,TERM S1R,N S1R TOL,N S1R)	001710
	CALL STEP(I,K,ANI(K),BNI(K),S1I,TERM S1I,N S1I TOL,N S1I)	001720
	CALL STEP(I,K,BNR(K),ANR(K),S2R,TERM S2R,N S2R TOL,N S2R)	001730
	CALL STEP(I,K,BNI(K),ANI(K),S2I,TERM S2I,N S2I TOL,N S2I)	001740
	IF(K OUT .EQ. 4) GO TO 32	001750
30	CONTINUE	001760
	NLO=KLO+NTAB+1	001770
	NHI=KHI-MINO(NTAB+NDEL,NMAX)	001780
	IF(NHI .LT. NLO) GO TO 32	001790
	I ONE TWO=2	001800
	CALL AN BN(I ONE TWO,NLO,NHI,NTAB)	001810
	GO TO 26	001820
32	MINTOL=MINO(NS1RTOL,NS1ITOL,NS2RTOL,NS2ITOL)	001830
	IF(MINTOL .LT. NTOL) PRINT(6,33)MINTOL	001840
33	FORMAT(* CONVERGENCE WARNING--ONLY*13* TERMS SMALL*)	001850
	S1SQ(I)=S1R**2+S1I**2	001860
	S2SQ(I)=S2R**2+S2I**2	001870
36	CONTINUE	001880
	RETURN	001890

	END	001900
C		001910
C		001920
C		001930
	SUBROUTINE ANBN(IONETWO,NLO,NHI,NTAB)	001940
	COMMON/ALL/FACTR,TOL,NTOL,KOUT,PN(19,90),TN(19,90)	001950
	COMMON/SCAN/ALF,ANI(162),ANR(162),BNI(162),BNR(162),	001960
1	CSC,CXT,LMDA,NDEL,NMAX,PI,PNPR(19,3),NCSC,NCXT	001970
	TYPE REAL JN,LMDA	001980
	DIMENSION JN(300),YN(162)	001990
	TYPE COMPLEX AN,BN,HN,MN1,RHON	002000
	DATA(CUT=1E120)	002010
	IF(IONETWO.EQ.2) GO TO 18	002020
12	CSC=CXT=0.0	002030
	NCSC=NCXT=NSCTOL=NXTTOL=0	002040
16	CALL SPHJN(ALF,NHI,JN)	002050
	CALL SPHYN(ALF,NHI,YN)	002060
	I=0	002070
161	I=I+1	002080
	IF(ABS(JN(I+1)).GT.1E5) JN(I+1)=JN(I+1)/1E270	002090
	IF(ABS(YN(I+1)).LT.1E-5) YN(I+1)=YN(I+1)*1E270	002100
	IF(ABS(JN(I+1)).GT.1.0/CUT.AND.ABS(YN(I+1)).LT.CUT) GO TO 17	002110
	NMAX=NH1=I-2	002120
	GO TO 18	002130
17	IF(I.LT.NHI) GO TO 161	002140
18	DO 44 N=NLO,NHI	002150
	DN=N	002160
	HN=CMPLX(JN(N+1),-YN(N+1))	002170
	BN=JN(N+1)/HN	002180
	SIGMAN=JN(N)/JN(N+1)-DN/ALF	002190
	HN1=CMPLX(JN(N),-YN(N))	002200
	RHON=HN1/BN-DN/ALF	002210
	AN=BN*SIGMAN/RHON	002220
	ANR(N)=REAL(AN)	002230
	ANI(N)=AIMAG(AN)	002240
	BNR(N)=REAL(BN)	002250
	BNI(N)=AIMAG(BN)	002260
	IF(IONETWO.EQ.2) GO TO 44	002270
	IF(NSCTOL.EQ.NTOL) GO TO 28	002280
	TERMSC=(2.0*DN+1.0)*(ANR(N)+ANR(N)+ANI(N)+ANI(N)+	002290
1	BNR(N)+BNR(N)+BNI(N)+BNI(N))	002300
	CSC=CSC+TERMSC	002310
	NCSC=NCSC+1	002320
	IF(ABS(TERMSC/CSC).LT.TOL) 20,24	002330
20	NSCTOL=NSCTOL+1	002340
	GO TO 28	002350
24	NSCTOL=0	002360
28	IF(NXTTOL.EQ.NTOL) GO TO 40	002370
	TERMXT=(2.0*DN+1.0)*ANR(N)+BNR(N)	002380
	CXT=CXT+TERMXT	002390
	NCXT=NCXT+1	002400
	IF(ABS(TERMXT/CXT).LT.TOL) 32,36	002410
32	NXTTOL=NXTTOL+1	002420
	GO TO 40	002430
36	NXTTOL=0	002440
40	CONTINUE	002450
	IF(NSCTOL.LT.NTOL.OR.NXTTOL.LT.NTOL) GO TO 44	002460
	NTAB=N	002470
	GO TO 48	002480
44	CONTINUE	002490

	NTAB=NHI	002500
	IF(IONETWO.EQ.2) RETURN	002510
48	CSC=CSC+LMDA*LMDA/(2.0*PI)	002520
	CXT=CXT+LMDA*LMDA/(2.0*PI)	002530
	RETURN	002540
	END	002550
C		002560
C		002570
C		002580
	SUBROUTINE SPHJN(X,N,ARR)	002590
	DIMENSION ARR(1)	002600
	RX=1.E+270	002610
	JTS=ALOG10(RX)+0.5	002620
	DTS=ALOG10(RX)	002630
	NF=1	002640
	NN=N+1	002650
	IF(X.EQ.0.0) GO TO 4	002660
	IF(X.LE.0.5) GO TO 6	002670
C	FOR ORDERS LESS THAN ARGUMENT, AND ARGUMENT GREATER THAN 0.5	002680
	ARR(1)=SIN(X)/X	002690
	ARR(2)=ARR(1)/X-COS(X)/X	002700
	NM=X-2	002710
	IF(N.LT.X) NM=N-1	002720
	IF(NM.LT.0) NM=0	002730
	DO 16 I=1,NM	002740
	FN=I+1	002750
	ARR(I+2)=(FN+1.0)*ARR(I+1)/X-ARR(I)	002760
C	CHECK FO UNDERFLOW	002770
	IF(ARR(I+2).NE.0.0) GO TO 16	002780
	ARR(I+1)=ARR(I+1)*RX	002790
	ARR(I+2)=(FN+1.0)*ARR(I+1)/X-ARR(I)*RX	002800
16	CONTINUE	002810
	IF(N.LT.X) RETURN	002820
	HOLD=ARR(NM+2)	002830
C	FOR ORDERS GREATER THAN OR EQUAL TO ARGUMENT, AND	002840
C	ARGUMENT GREATER THAN 0.5	002850
15	ALPHA=1.0	002860
	M=-2-NM	002870
	NOTE=0	002880
	I=N+47	002890
	IF(X/N.GT.0.9) I=I/X/10.0	002900
	ARR(I+2)=ALPHA	002910
	ARR(I+3)=0.0	002920
	I=-I-1	002930
	DO 2 KK=I,M	002940
	K=-KK	002950
	NOD=K+1	002960
	TKP1=K+K+1	002970
	ARR(K)=TKP1*ARR(K+1)/X-ARR(K+2)	002980
	DTS2=ALOG10(TKP1)+ALOG10(ABS(ARR(K+1)))	002990
	IF(DTS2.GE.DTS.OR.DTS2-ALOG10(X).GE.DTS) 18,2	003000
18	TEMPY=ARR(K)=ARR(K+1)/RX-TKP1/X-ARR(K+2)/RX	003010
	ARR(K)=ARR(K)*RX	003020
	IF(ABS(ARR(K)).GE.1.0) 24,2	003030
24	ARR(K)=TEMPY	003040
	ARR(K+1)=ARR(K+1)/RX	003050
2	CONTINUE	003060
12	C=HOLD/ARR(K)	003070
	IF(C.NE.0.0) GO TO 14	003080
	HOLD=HOLD/RX	003090

	NOTE=NOTE+1	003100
	GO TO 12	003110
14	IF(NOTE.EQ.0) GO TO 17	003120
	MULT=JTS*NOTE	003130
17	DO 3 I=K,NN	003140
	ARR(I)=ARR(I)*C	003150
3	CONTINUE	003160
	RETURN	003170
C	SPECIAL CASE WHERE X EQUALS 0.0	003180
4	PRINT(6,*) 5	003190
5	FORMAT(3X'DO NOT USE ZERO ARGUMENT')	003200
	RETURN	003210
C	SERIES FOR ARGUMENT LESS THAN OR EQUAL TO 0.5	003220
6	EPS=5E-11	003230
	CH=CS=DN=DIV=1.0	003240
	DO 10 L=1,NN	003250
	ITEXP=NEXPA=MEXPA=LEXP=0	003260
	NO=L-1	003270
	IF(L.EQ.1) GO TO 7	003280
	CS=CS*X/DN	003290
C	CHECK FOR UNDERFLOW	003300
	IF(CS.NE.0.0) GO TO 7	003310
C	SCALE FOR THIS N AND ALL FOLLOWING N	003320
	CS=CH*RX*X/DN	003330
	NEXPA=NEXPA+1	003340
7	DN=DN+2.0	003350
	CH=CS	003360
	XKK=0.0	003370
	A=CH2=FORTT=1.0/DIV	003380
	TN=2.0*NO	003390
	FN=-0.5*X*X	003400
8	XKK=XKK+1.0	003410
	FD=XKK*(TN+XKK+XKK+1.0)	003420
	A=A*FN/FD	003430
C	CHECK FOR UNDERFLOW	003440
	IF(A.NE.0.0) GO TO 25	003450
C	SCALE FOR THIS N AND ALL FOLLOWING N	003460
	A=CH2*RX*FN/FD	003470
	DIV=DIV/RX	003480
	MEXPA=MEXPA+1	003490
	FORTT=FORTT*RX	003500
25	CH2=A	003510
	TT=A*FORTT	003520
	IF(TT.EQ.0.0.OR.ABS(A/TT).LT.EPS) GO TO 9	003530
	FORTT=TT	003540
	GO TO 8	003550
9	ARR(L)=CS*TT	003560
C	CHECK FOR UNDERFLOW	003570
	IF(ARR(L).NE.0.0) GO TO 31	003580
C	SCALE FOR THIS N AND ALL FOLLOWING N	003590
	ARR(L)=CS*RX*TT	003600
	DIV=DIV/RX	003610
	LEXP=LEXP+1	003620
31	ITEXP=NEXPA+MEXPA+LEXP	003630
10	CONTINUE	003640
	END	003650
C		003660
C		003670
C	SUBROUTINE SPHYN(X,N,ARR)	003680
		003690

DIMENSION ARR(1)	003700
RX=1.E+270	003710
DTS=ALOG10(RX)	003720
IF(X.EQ.0.0) 5,3	003730
5 PRINT(6,*) "DO NOT USE ZERO ARGUMENT FOR YN"	003740
RETURN	003750
C FIND Y0 AND Y1	003760
3 ARR(1)=-COS(X)/X	003770
ARR(2)=ARR(1)/X-SIN(X)/X	003780
NM1=N-1	003790
DO 2 K=1,NM1	003800
TKP1=K+K+1	003810
ARR(K+2)=TKP1*ARR(K+1)/X-ARR(K)	003820
C CHECK FOR UNDERFLOW	003830
DTS2=ALOG10(TKP1)+ALOG10(ABS(ARR(K+1)))	003840
IF(DTS2.GE.DTS.OR.DTS2-ALOG10(X).GE.DTS) 8,2	003850
8 ARR(K+1)=ARR(K+1)/RX	003860
ARR(K+2)=TKP1*ARR(K+1)/X-ARR(K)/RX	003870
2 CONTINUE	003880
RETURN	003890
END	003900

Tables

This section contains a comprehensive set of theoretical scattering tables for conducting spheres. Each table lists normalized cross section ($\sigma/\pi a^2$) for both E-Plane and H-Plane at 2-degree intervals from backscatter (angle = 0°) to forward scatter (angle = 180°) for a particular ka value. The ka values range from 0.2 to 40.0 at intervals of 0.2 and are accurate to at least four significant figures.

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= .2

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE		
ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE
0.0	1.4293E-02	62.0	5.9484E-03	122.0	3.6539E-03	1.3140E-05	3.6539E-03	122.0
2.0	1.4282E-02	64.0	5.5695E-03	124.0	3.5165E-03	3.6004E-05	3.5165E-03	124.0
4.0	1.4247E-02	66.0	5.1988E-03	126.0	3.3848E-03	6.9296E-05	3.3848E-03	126.0
6.0	1.4189E-02	68.0	4.8313E-03	128.0	3.2588E-03	1.1219E-04	3.2588E-03	128.0
8.0	1.4109E-02	70.0	4.4741E-03	130.0	3.1384E-03	1.6314E-04	3.1384E-03	130.0
10.0	1.4005E-02	72.0	4.1261E-03	132.0	3.0236E-03	2.2316E-04	3.0236E-03	132.0
12.0	1.3880E-02	74.0	3.7884E-03	134.0	2.9143E-03	2.8911E-04	2.9143E-03	134.0
14.0	1.3733E-02	76.0	3.4617E-03	136.0	2.8108E-03	3.6237E-04	2.8108E-03	136.0
16.0	1.3565E-02	78.0	3.1470E-03	138.0	2.7122E-03	4.4055E-04	2.7122E-03	138.0
18.0	1.3376E-02	80.0	2.8450E-03	140.0	2.6192E-03	5.2185E-04	2.6192E-03	140.0
20.0	1.3167E-02	82.0	2.5563E-03	142.0	2.5315E-03	6.0693E-04	2.5315E-03	142.0
22.0	1.2939E-02	84.0	2.2817E-03	144.0	2.4490E-03	6.9432E-04	2.4490E-03	144.0
24.0	1.2693E-02	86.0	2.0216E-03	146.0	2.3718E-03	7.8311E-04	2.3718E-03	146.0
26.0	1.2429E-02	88.0	1.7766E-03	148.0	2.2992E-03	8.7238E-04	2.2992E-03	148.0
28.0	1.2148E-02	90.0	1.5470E-03	150.0	2.2318E-03	9.6126E-04	2.2318E-03	150.0
30.0	1.1852E-02	92.0	1.3332E-03	152.0	2.1692E-03	1.0439E-03	2.1692E-03	152.0
32.0	1.1542E-02	94.0	1.1355E-03	154.0	2.1114E-03	1.1314E-03	2.1114E-03	154.0
34.0	1.1218E-02	96.0	9.5391E-04	156.0	2.0583E-03	1.2171E-03	2.0583E-03	156.0
36.0	1.0882E-02	98.0	7.8868E-04	158.0	2.0098E-03	1.2951E-03	2.0098E-03	158.0
38.0	1.0534E-02	100.0	6.3978E-04	160.0	1.9657E-03	1.3707E-03	1.9657E-03	160.0
40.0	1.0177E-02	102.0	5.0717E-04	162.0	1.9262E-03	1.4404E-03	1.9262E-03	162.0
42.0	9.8109E-03	104.0	3.9070E-04	164.0	1.8910E-03	1.5014E-03	1.8910E-03	164.0
44.0	9.4374E-03	106.0	2.5018E-04	166.0	1.8601E-03	1.5623E-03	1.8601E-03	166.0
46.0	9.0576E-03	108.0	2.0533E-04	168.0	1.8334E-03	1.6135E-03	1.8334E-03	168.0
48.0	8.6729E-03	110.0	1.5808E-04	170.0	1.8110E-03	1.6575E-03	1.8110E-03	170.0
50.0	8.2846E-03	112.0	8.1196E-05	172.0	1.7927E-03	1.6941E-03	1.7927E-03	172.0
52.0	7.8938E-03	114.0	4.1026E-05	174.0	1.7785E-03	1.7229E-03	1.7785E-03	174.0
54.0	7.5020E-03	116.0	1.4757E-05	176.0	1.7684E-03	1.7436E-03	1.7684E-03	176.0
56.0	7.1102E-03	118.0	1.7942E-06	178.0	1.7623E-03	1.7561E-03	1.7623E-03	178.0
58.0	6.7199E-03	120.0	1.4880E-06	180.0	1.7603E-03	1.7603E-03	1.7603E-03	180.0
60.0	6.3323E-03							

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = .4

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE		
ANGLE	ANGLE	H-PLANE	ANGLE	ANGLE	H-PLANE	ANGLE	ANGLE	H-PLANE
0.0	2.2291E-01	2.2291E-01	62.0	9.2067E-02	1.6088E-01	122.0	8.3415E-04	6.7185E-02
2.0	2.2273E-01	2.2284E-01	64.0	8.6081E-02	1.5748E-01	124.0	1.4748E-03	6.4867E-02
4.0	2.219E-01	2.2261E-01	66.0	8.0189E-02	1.5406E-01	126.0	2.2925E-03	6.2831E-02
6.0	2.2129E-01	2.2224E-01	68.0	7.4409E-02	1.5061E-01	128.0	3.2730E-03	6.0780E-02
8.0	2.2004E-01	2.2171E-01	70.0	6.8759E-02	1.4714E-01	130.0	4.4017E-03	5.8812E-02
10.0	2.1843E-01	2.2101E-01	72.0	6.3256E-02	1.4366E-01	132.0	5.6612E-03	5.6929E-02
12.0	2.1648E-01	2.2021E-01	74.0	5.7915E-02	1.4018E-01	134.0	7.0418E-03	5.5130E-02
14.0	2.1419E-01	2.1925E-01	76.0	5.2751E-02	1.3669E-01	136.0	8.5214E-03	5.3415E-02
16.0	2.1157E-01	2.1814E-01	78.0	4.7778E-02	1.3321E-01	138.0	1.0085E-02	5.1784E-02
18.0	2.0863E-01	2.1688E-01	80.0	4.3009E-02	1.2975E-01	140.0	1.1718E-02	5.0236E-02
20.0	2.0538E-01	2.1549E-01	82.0	3.8457E-02	1.2629E-01	142.0	1.3401E-02	4.8772E-02
22.0	2.0183E-01	2.1396E-01	84.0	3.4132E-02	1.2286E-01	144.0	1.5119E-02	4.7389E-02
24.0	1.9798E-01	2.1230E-01	86.0	3.0044E-02	1.1945E-01	146.0	1.6856E-02	4.6088E-02
26.0	1.9387E-01	2.1051E-01	88.0	2.6202E-02	1.1608E-01	148.0	1.8504E-02	4.4868E-02
28.0	1.8949E-01	2.0859E-01	90.0	2.2613E-02	1.1274E-01	150.0	2.0133E-02	4.3728E-02
30.0	1.8487E-01	2.0655E-01	92.0	1.9284E-02	1.0944E-01	152.0	2.2014E-02	4.2667E-02
32.0	1.8001E-01	2.0439E-01	94.0	1.6220E-02	1.0618E-01	154.0	2.3604E-02	4.1684E-02
34.0	1.7495E-01	2.0211E-01	96.0	1.3423E-02	1.0297E-01	156.0	2.5255E-02	4.0798E-02
36.0	1.6968E-01	1.9972E-01	98.0	1.0897E-02	9.9820E-02	158.0	2.6774E-02	3.9950E-02
38.0	1.6424E-01	1.9723E-01	100.0	8.6432E-03	9.6722E-02	160.0	2.8207E-02	3.9196E-02
40.0	1.5864E-01	1.9463E-01	102.0	6.6607E-03	9.3684E-02	162.0	2.9542E-02	3.8517E-02
42.0	1.5290E-01	1.9194E-01	104.0	4.9482E-03	9.0709E-02	164.0	3.0768E-02	3.7912E-02
44.0	1.4704E-01	1.8916E-01	106.0	3.5030E-03	8.7800E-02	166.0	3.1875E-02	3.7380E-02
46.0	1.4107E-01	1.8629E-01	108.0	2.3212E-03	8.4906E-02	168.0	3.2853E-02	3.6921E-02
48.0	1.3502E-01	1.8334E-01	110.0	1.3974E-03	8.2191E-02	170.0	3.3695E-02	3.6533E-02
50.0	1.2891E-01	1.8031E-01	112.0	7.2516E-04	7.9495E-02	172.0	3.4393E-02	3.6218E-02
52.0	1.2276E-01	1.7722E-01	114.0	2.9696E-04	7.6875E-02	174.0	3.4942E-02	3.5971E-02
54.0	1.1658E-01	1.7405E-01	116.0	1.0403E-04	7.4333E-02	176.0	3.5337E-02	3.5796E-02
56.0	1.1041E-01	1.7083E-01	118.0	1.3660E-04	7.1870E-02	178.0	3.5676E-02	3.5690E-02
58.0	1.0425E-01	1.6756E-01	120.0	3.8388E-04	6.9487E-02	180.0	3.5855E-02	3.5686E-02
60.0	9.8130E-02	1.6424E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = .6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0451E+00	1.0451E+00	62.0	4.3210E-01	8.0520E-01	122.0	1.3684E-02	3.9201E-01
2.0	1.0443E+00	1.0443E+00	64.0	4.0363E-01	7.9138E-01	124.0	1.8719E-02	3.8127E-01
4.0	1.0418E+00	1.0440E+00	66.0	3.7557E-01	7.7736E-01	126.0	2.4700E-02	3.7089E-01
6.0	1.0376E+00	1.0425E+00	68.0	3.4803E-01	7.6316E-01	128.0	3.1552E-02	3.6086E-01
8.0	1.0318E+00	1.0407E+00	70.0	3.2109E-01	7.4882E-01	130.0	3.9195E-02	3.5119E-01
10.0	1.0244E+00	1.0382E+00	72.0	2.9482E-01	7.3434E-01	132.0	4.7530E-02	3.4190E-01
12.0	1.0154E+00	1.0351E+00	74.0	2.6933E-01	7.1975E-01	134.0	5.6570E-02	3.3298E-01
14.0	1.0048E+00	1.0315E+00	76.0	2.4468E-01	7.0507E-01	136.0	6.6026E-02	3.2445E-01
16.0	9.9272E-01	1.0274E+00	78.0	2.2094E-01	6.9033E-01	138.0	7.5975E-02	3.1629E-01
18.0	9.7911E-01	1.0228E+00	80.0	1.9819E-01	6.7534E-01	140.0	8.6374E-02	3.0852E-01
20.0	9.6404E-01	1.0176E+00	82.0	1.7650E-01	6.6073E-01	142.0	9.6828E-02	3.0113E-01
22.0	9.4758E-01	1.0119E+00	84.0	1.5592E-01	6.4593E-01	144.0	1.0784E-01	2.9413E-01
24.0	9.2976E-01	1.0057E+00	86.0	1.3651E-01	6.3115E-01	146.0	1.1833E-01	2.8753E-01
26.0	9.1065E-01	9.9894E-01	88.0	1.1832E-01	6.1641E-01	148.0	1.2959E-01	2.8130E-01
28.0	8.9030E-01	9.9172E-01	90.0	1.0139E-01	6.0174E-01	150.0	1.3973E-01	2.7547E-01
30.0	8.6880E-01	9.8402E-01	92.0	8.5772E-02	5.8716E-01	152.0	1.5016E-01	2.7003E-01
32.0	8.4619E-01	9.7593E-01	94.0	7.1484E-02	5.7270E-01	154.0	1.6030E-01	2.6497E-01
34.0	8.2257E-01	9.6719E-01	96.0	5.8556E-02	5.5836E-01	156.0	1.7006E-01	2.6029E-01
36.0	7.9800E-01	9.5809E-01	98.0	4.7009E-02	5.4417E-01	158.0	1.7936E-01	2.5600E-01
38.0	7.7256E-01	9.4855E-01	100.0	3.6853E-02	5.3015E-01	160.0	1.8813E-01	2.5209E-01
40.0	7.4634E-01	9.3858E-01	102.0	2.8094E-02	5.1632E-01	162.0	1.9629E-01	2.4856E-01
42.0	7.1943E-01	9.2820E-01	104.0	2.0732E-02	5.0270E-01	164.0	2.0378E-01	2.4541E-01
44.0	6.9190E-01	9.1742E-01	106.0	1.4758E-02	4.8930E-01	166.0	2.1054E-01	2.4263E-01
46.0	6.6386E-01	9.0626E-01	108.0	1.0156E-02	4.7615E-01	168.0	2.1651E-01	2.4023E-01
48.0	6.3539E-01	8.9473E-01	110.0	6.9042E-03	4.6325E-01	170.0	2.2164E-01	2.3820E-01
50.0	6.0659E-01	8.8285E-01	112.0	4.9743E-03	4.5062E-01	172.0	2.2590E-01	2.3654E-01
52.0	5.7755E-01	8.7063E-01	114.0	4.3305E-03	4.3827E-01	174.0	2.2924E-01	2.3525E-01
54.0	5.4837E-01	8.5810E-01	116.0	4.9308E-03	4.2623E-01	176.0	2.3165E-01	2.3435E-01
56.0	5.1914E-01	8.4527E-01	118.0	6.7269E-03	4.1450E-01	178.0	2.3311E-01	2.3378E-01
58.0	4.8995E-01	8.3217E-01	120.0	9.6645E-03	4.0309E-01	180.0	2.3359E-01	2.3359E-01
60.0	4.6091E-01	8.1880E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = .6

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE			E-PLANE		
ANGLE	H-PLANE	H-PLANE	ANGLE	H-PLANE	H-PLANE	ANGLE	H-PLANE	H-PLANE	ANGLE	H-PLANE	H-PLANE
0.0	2.5960E+00	2.5960E+00	62.0	1.146E+00	2.1571E+00	122.0	9.8661E-02	1.2338E+00	122.0	9.8661E-02	1.2338E+00
2.0	2.5941E+00	2.5956E+00	64.0	1.0437E+00	2.1296E+00	124.0	1.1700E-01	1.2071E+00	124.0	1.1700E-01	1.2071E+00
4.0	2.5882E+00	2.5942E+00	66.0	9.7373E-01	2.1015E+00	126.0	1.3812E-01	1.1811E+00	126.0	1.3812E-01	1.1811E+00
6.0	2.5784E+00	2.5918E+00	68.0	9.0486E-01	2.0728E+00	128.0	1.6183E-01	1.1559E+00	128.0	1.6183E-01	1.1559E+00
8.0	2.5648E+00	2.5886E+00	70.0	8.3732E-01	2.0434E+00	130.0	1.8789E-01	1.1316E+00	130.0	1.8789E-01	1.1316E+00
10.0	2.5474E+00	2.5844E+00	72.0	7.7136E-01	2.0136E+00	132.0	2.1605E-01	1.1080E+00	132.0	2.1605E-01	1.1080E+00
12.0	2.5261E+00	2.5793E+00	74.0	7.0719E-01	1.9833E+00	134.0	2.4607E-01	1.0854E+00	134.0	2.4607E-01	1.0854E+00
14.0	2.5012E+00	2.5732E+00	76.0	6.4503E-01	1.9525E+00	136.0	2.7769E-01	1.0636E+00	136.0	2.7769E-01	1.0636E+00
16.0	2.4726E+00	2.5662E+00	78.0	5.8509E-01	1.9213E+00	138.0	3.1064E-01	1.0427E+00	138.0	3.1064E-01	1.0427E+00
18.0	2.4404E+00	2.5583E+00	80.0	5.2757E-01	1.8898E+00	140.0	3.4462E-01	1.0228E+00	140.0	3.4462E-01	1.0228E+00
20.0	2.4047E+00	2.5494E+00	82.0	4.7267E-01	1.8579E+00	142.0	3.7936E-01	1.0037E+00	142.0	3.7936E-01	1.0037E+00
22.0	2.3657E+00	2.5397E+00	84.0	4.2058E-01	1.8258E+00	144.0	4.1457E-01	9.8567E-01	144.0	4.1457E-01	9.8567E-01
24.0	2.3234E+00	2.5290E+00	86.0	3.7146E-01	1.7935E+00	146.0	4.4955E-01	9.6855E-01	146.0	4.4955E-01	9.6855E-01
26.0	2.2780E+00	2.5173E+00	88.0	3.2548E-01	1.7610E+00	148.0	4.8521E-01	9.5241E-01	148.0	4.8521E-01	9.5241E-01
28.0	2.2295E+00	2.5048E+00	90.0	2.8277E-01	1.7284E+00	150.0	5.2006E-01	9.3723E-01	150.0	5.2006E-01	9.3723E-01
30.0	2.1782E+00	2.4913E+00	92.0	2.4348E-01	1.6957E+00	152.0	5.5422E-01	9.2304E-01	152.0	5.5422E-01	9.2304E-01
32.0	2.1242E+00	2.4769E+00	94.0	2.0771E-01	1.6630E+00	154.0	5.8741E-01	9.0983E-01	154.0	5.8741E-01	9.0983E-01
34.0	2.0676E+00	2.4616E+00	96.0	1.7557E-01	1.6304E+00	156.0	6.1936E-01	8.9760E-01	156.0	6.1936E-01	8.9760E-01
36.0	2.0085E+00	2.4454E+00	98.0	1.4714E-01	1.5978E+00	158.0	6.4950E-01	8.8635E-01	158.0	6.4950E-01	8.8635E-01
38.0	1.9474E+00	2.4282E+00	100.0	1.2248E-01	1.5654E+00	160.0	6.7850E-01	8.7610E-01	160.0	6.7850E-01	8.7610E-01
40.0	1.8842E+00	2.4102E+00	102.0	1.0164E-01	1.5332E+00	162.0	7.0522E-01	8.6682E-01	162.0	7.0522E-01	8.6682E-01
42.0	1.8191E+00	2.3913E+00	104.0	8.4639E-02	1.5013E+00	164.0	7.2974E-01	8.5853E-01	164.0	7.2974E-01	8.5853E-01
44.0	1.7524E+00	2.3716E+00	106.0	7.1486E-02	1.4697E+00	166.0	7.5186E-01	8.5122E-01	166.0	7.5186E-01	8.5122E-01
46.0	1.6843E+00	2.3510E+00	108.0	6.2166E-02	1.4384E+00	168.0	7.7141E-01	8.4490E-01	168.0	7.7141E-01	8.4490E-01
48.0	1.6150E+00	2.3295E+00	110.0	5.6643E-02	1.4076E+00	170.0	7.8823E-01	8.3955E-01	170.0	7.8823E-01	8.3955E-01
50.0	1.5446E+00	2.3072E+00	112.0	5.4861E-02	1.3772E+00	172.0	8.0218E-01	8.3517E-01	172.0	8.0218E-01	8.3517E-01
52.0	1.4735E+00	2.2841E+00	114.0	5.6743E-02	1.3473E+00	174.0	8.1314E-01	8.3177E-01	174.0	8.1314E-01	8.3177E-01
54.0	1.4019E+00	2.2602E+00	116.0	6.2192E-02	1.3180E+00	176.0	8.2104E-01	8.2934E-01	176.0	8.2104E-01	8.2934E-01
56.0	1.3299E+00	2.2355E+00	118.0	7.1089E-02	1.2893E+00	178.0	8.2581E-01	8.2789E-01	178.0	8.2581E-01	8.2789E-01
58.0	1.2579E+00	2.2101E+00	120.0	8.3298E-02	1.2612E+00	180.0	8.2740E-01	8.2740E-01	180.0	8.2740E-01	8.2740E-01
60.0	1.1860E+00	2.1840E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 1.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	3.6376E+00	3.6376E+00	62.0	1.7790E+00	3.3132E+00	122.0	3.5904E-01	2.2365E+00
2.0	3.6352E+00	3.6373E+00	64.0	1.6842E+00	3.2877E+00	124.0	3.9127E-01	2.2007E+00
4.0	3.6283E+00	3.6366E+00	66.0	1.5898E+00	3.2611E+00	126.0	4.2843E-01	2.1657E+00
6.0	3.6167E+00	3.6353E+00	68.0	1.4963E+00	3.2334E+00	128.0	4.7020E-01	2.1316E+00
8.0	3.6005E+00	3.6336E+00	70.0	1.4040E+00	3.2046E+00	130.0	5.1625E-01	2.0986E+00
10.0	3.5798E+00	3.6313E+00	72.0	1.3132E+00	3.1746E+00	132.0	5.6619E-01	2.0667E+00
12.0	3.5545E+00	3.6285E+00	74.0	1.2242E+00	3.1437E+00	134.0	6.1962E-01	2.0358E+00
14.0	3.5247E+00	3.6251E+00	76.0	1.1374E+00	3.1117E+00	136.0	6.7611E-01	2.0062E+00
16.0	3.4906E+00	3.6212E+00	78.0	1.0531E+00	3.0787E+00	138.0	7.3518E-01	1.9778E+00
18.0	3.4530E+00	3.6167E+00	80.0	9.7162E-01	3.0448E+00	140.0	7.9635E-01	1.9506E+00
20.0	3.4093E+00	3.6116E+00	82.0	8.9331E-01	3.0098E+00	142.0	8.5913E-01	1.9247E+00
22.0	3.3623E+00	3.6058E+00	84.0	8.1847E-01	2.9743E+00	144.0	9.2239E-01	1.9002E+00
24.0	3.3113E+00	3.5994E+00	86.0	7.4743E-01	2.9378E+00	146.0	9.8740E-01	1.8769E+00
26.0	3.2563E+00	3.5923E+00	88.0	6.8047E-01	2.9006E+00	148.0	1.0518E+00	1.8550E+00
28.0	3.1974E+00	3.5845E+00	90.0	6.1788E-01	2.8628E+00	150.0	1.1157E+00	1.8345E+00
30.0	3.1348E+00	3.5760E+00	92.0	5.594E-01	2.8244E+00	152.0	1.1785E+00	1.8153E+00
32.0	3.0687E+00	3.5666E+00	94.0	5.0689E-01	2.7854E+00	154.0	1.2397E+00	1.7975E+00
34.0	2.9992E+00	3.5565E+00	96.0	4.5988E-01	2.7461E+00	156.0	1.2988E+00	1.7810E+00
36.0	2.9264E+00	3.5455E+00	98.0	4.1640E-01	2.7064E+00	158.0	1.3553E+00	1.7659E+00
38.0	2.8505E+00	3.5337E+00	100.0	3.7935E-01	2.6664E+00	160.0	1.4087E+00	1.7522E+00
40.0	2.7717E+00	3.5209E+00	102.0	3.4798E-01	2.6263E+00	162.0	1.4585E+00	1.7398E+00
42.0	2.6902E+00	3.5072E+00	104.0	3.2242E-01	2.5861E+00	164.0	1.5042E+00	1.7288E+00
44.0	2.6063E+00	3.4926E+00	106.0	3.0278E-01	2.5460E+00	166.0	1.5456E+00	1.7190E+00
46.0	2.5201E+00	3.4769E+00	108.0	2.8912E-01	2.5059E+00	168.0	1.5823E+00	1.7106E+00
48.0	2.4318E+00	3.4602E+00	110.0	2.8147E-01	2.4661E+00	170.0	1.6138E+00	1.7039E+00
50.0	2.3418E+00	3.4425E+00	112.0	2.7983E-01	2.4266E+00	172.0	1.6400E+00	1.6977E+00
52.0	2.2502E+00	3.4237E+00	114.0	2.8416E-01	2.3874E+00	174.0	1.6606E+00	1.6932E+00
54.0	2.1574E+00	3.4039E+00	116.0	2.9438E-01	2.3488E+00	176.0	1.6755E+00	1.6902E+00
56.0	2.0638E+00	3.3829E+00	118.0	3.1038E-01	2.3107E+00	178.0	1.6845E+00	1.6881E+00
58.0	1.9690E+00	3.3608E+00	120.0	3.3200E-01	2.2732E+00	180.0	1.6875E+00	1.6879E+00
60.0	1.8741E+00	3.3376E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 1.2

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	3.1046E+00	3.1046E+00	62.0	2.0869E+00	3.2680E+00	122.0	7.8997E-01	2.6966E+00
2.0	3.1036E+00	3.1050E+00	64.0	2.0227E+00	3.2670E+00	124.0	8.1573E-01	2.6686E+00
4.0	3.1005E+00	3.1061E+00	66.0	1.9572E+00	3.2647E+00	126.0	8.4765E-01	2.6412E+00
6.0	3.0952E+00	3.1080E+00	68.0	1.8908E+00	3.2613E+00	128.0	8.8555E-01	2.6145E+00
8.0	3.0879E+00	3.1105E+00	70.0	1.8235E+00	3.2562E+00	130.0	9.2917E-01	2.5866E+00
10.0	3.0784E+00	3.1138E+00	72.0	1.7557E+00	3.2498E+00	132.0	9.7821E-01	2.5636E+00
12.0	3.0669E+00	3.1177E+00	74.0	1.6875E+00	3.2419E+00	134.0	1.0323E+00	2.5395E+00
14.0	3.0532E+00	3.1222E+00	76.0	1.6193E+00	3.2326E+00	136.0	1.0910E+00	2.5165E+00
16.0	3.0375E+00	3.1274E+00	78.0	1.5512E+00	3.2216E+00	138.0	1.1538E+00	2.4946E+00
18.0	3.0196E+00	3.1332E+00	80.0	1.4836E+00	3.2094E+00	140.0	1.2203E+00	2.4738E+00
20.0	2.9995E+00	3.1394E+00	82.0	1.4168E+00	3.1956E+00	142.0	1.2897E+00	2.4542E+00
22.0	2.9773E+00	3.1461E+00	84.0	1.3512E+00	3.1802E+00	144.0	1.3616E+00	2.4358E+00
24.0	2.9530E+00	3.1533E+00	86.0	1.2871E+00	3.1634E+00	146.0	1.4352E+00	2.4185E+00
26.0	2.9265E+00	3.1608E+00	88.0	1.2248E+00	3.1452E+00	148.0	1.5099E+00	2.4025E+00
28.0	2.8978E+00	3.1686E+00	90.0	1.1647E+00	3.1255E+00	150.0	1.5849E+00	2.3877E+00
30.0	2.8670E+00	3.1766E+00	92.0	1.1072E+00	3.1046E+00	152.0	1.6595E+00	2.3741E+00
32.0	2.8339E+00	3.1848E+00	94.0	1.0528E+00	3.0823E+00	154.0	1.7329E+00	2.3617E+00
34.0	2.7987E+00	3.1930E+00	96.0	1.0016E+00	3.0589E+00	156.0	1.8046E+00	2.3504E+00
36.0	2.7613E+00	3.2012E+00	98.0	9.5424E-01	3.0344E+00	158.0	1.8736E+00	2.3402E+00
38.0	2.7217E+00	3.2094E+00	100.0	9.1096E-01	3.0090E+00	160.0	1.9394E+00	2.3311E+00
40.0	2.6800E+00	3.2173E+00	102.0	8.7214E-01	2.9826E+00	162.0	2.0011E+00	2.3230E+00
42.0	2.6361E+00	3.2250E+00	104.0	8.3813E-01	2.9554E+00	164.0	2.0583E+00	2.3159E+00
44.0	2.5900E+00	3.2324E+00	106.0	8.0923E-01	2.9276E+00	166.0	2.1103E+00	2.3097E+00
46.0	2.5419E+00	3.2393E+00	108.0	7.8575E-01	2.8992E+00	168.0	2.1566E+00	2.3045E+00
48.0	2.4916E+00	3.2457E+00	110.0	7.6794E-01	2.8705E+00	170.0	2.1965E+00	2.3001E+00
50.0	2.4393E+00	3.2514E+00	112.0	7.5604E-01	2.8414E+00	172.0	2.2299E+00	2.2968E+00
52.0	2.3851E+00	3.2565E+00	114.0	7.5022E-01	2.8123E+00	174.0	2.2562E+00	2.2938E+00
54.0	2.3289E+00	3.2607E+00	116.0	7.5064E-01	2.7836E+00	176.0	2.2752E+00	2.2920E+00
56.0	2.2709E+00	3.2641E+00	118.0	7.5738E-01	2.7539E+00	178.0	2.2866E+00	2.2906E+00
58.0	2.2111E+00	3.2665E+00	120.0	7.7049E-01	2.7251E+00	180.0	2.2903E+00	2.2905E+00
60.0	2.1498E+00	3.2678E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = 1.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.7377E+00	1.7377E+00	62.0	2.2221E+00	2.4451E+00	122.0	1.3208E+00	2.7551E+00
2.0	1.7386E+00	1.7387E+00	64.0	2.2265E+00	2.4778E+00	124.0	1.3161E+00	2.7448E+00
4.0	1.7411E+00	1.7414E+00	66.0	2.2277E+00	2.5097E+00	126.0	1.3184E+00	2.7344E+00
6.0	1.7453E+00	1.7460E+00	68.0	2.2253E+00	2.5406E+00	128.0	1.3201E+00	2.7241E+00
8.0	1.7512E+00	1.7524E+00	70.0	2.2193E+00	2.5706E+00	130.0	1.3451E+00	2.7141E+00
10.0	1.7587E+00	1.7606E+00	72.0	2.2094E+00	2.5926E+00	132.0	1.3876E+00	2.7045E+00
12.0	1.7678E+00	1.7705E+00	74.0	2.1957E+00	2.6266E+00	134.0	1.4014E+00	2.6955E+00
14.0	1.7786E+00	1.7824E+00	76.0	2.1780E+00	2.6524E+00	136.0	1.4403E+00	2.6870E+00
16.0	1.7908E+00	1.7959E+00	78.0	2.1563E+00	2.6767E+00	138.0	1.4860E+00	2.6792E+00
18.0	1.8046E+00	1.8111E+00	80.0	2.1306E+00	2.6933E+00	140.0	1.5360E+00	2.6722E+00
20.0	1.8198E+00	1.8281E+00	82.0	2.1012E+00	2.7200E+00	142.0	1.5958E+00	2.6659E+00
22.0	1.8364E+00	1.8466E+00	84.0	2.0681E+00	2.7399E+00	144.0	1.6588E+00	2.6606E+00
24.0	1.8543E+00	1.8667E+00	86.0	2.0315E+00	2.7558E+00	146.0	1.7252E+00	2.6560E+00
26.0	1.8734E+00	1.8894E+00	88.0	1.9918E+00	2.7708E+00	148.0	1.7972E+00	2.6523E+00
28.0	1.8936E+00	1.9116E+00	90.0	1.9492E+00	2.7837E+00	150.0	1.8709E+00	2.6494E+00
30.0	1.9147E+00	1.9362E+00	92.0	1.9042E+00	2.7945E+00	152.0	1.9465E+00	2.6473E+00
32.0	1.9367E+00	1.9621E+00	94.0	1.8571E+00	2.8033E+00	154.0	2.0228E+00	2.6458E+00
34.0	1.9593E+00	1.9893E+00	96.0	1.8085E+00	2.8101E+00	156.0	2.0990E+00	2.6450E+00
36.0	1.9824E+00	2.0177E+00	98.0	1.7590E+00	2.8149E+00	158.0	2.1738E+00	2.6447E+00
38.0	2.0058E+00	2.0472E+00	100.0	1.7091E+00	2.8178E+00	160.0	2.2464E+00	2.6449E+00
40.0	2.0293E+00	2.0777E+00	102.0	1.6594E+00	2.8188E+00	162.0	2.3157E+00	2.6454E+00
42.0	2.0527E+00	2.1091E+00	104.0	1.6109E+00	2.8181E+00	164.0	2.3807E+00	2.6463E+00
44.0	2.0757E+00	2.1413E+00	106.0	1.5634E+00	2.8157E+00	166.0	2.4404E+00	2.6472E+00
46.0	2.0981E+00	2.1742E+00	108.0	1.5184E+00	2.8118E+00	168.0	2.4941E+00	2.6483E+00
48.0	2.1196E+00	2.2076E+00	110.0	1.4763E+00	2.8066E+00	170.0	2.5410E+00	2.6494E+00
50.0	2.1400E+00	2.2414E+00	112.0	1.4379E+00	2.8001E+00	172.0	2.5803E+00	2.6503E+00
52.0	2.1589E+00	2.2755E+00	114.0	1.4036E+00	2.7925E+00	174.0	2.6114E+00	2.6512E+00
54.0	2.1761E+00	2.3098E+00	116.0	1.3743E+00	2.7841E+00	176.0	2.6341E+00	2.6518E+00
56.0	2.1913E+00	2.3440E+00	118.0	1.3503E+00	2.7749E+00	178.0	2.6478E+00	2.6522E+00
58.0	2.2042E+00	2.3781E+00	120.0	1.3324E+00	2.7652E+00	180.0	2.6523E+00	2.6523E+00
60.0	2.2146E+00	2.4118E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 1.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	5.7270E-01	5.7270E-01	62.0	2.2761E+00	1.5024E+00	122.0	1.9031E+00	2.8266E+00
2.0	5.7444E-01	5.7358E-01	64.0	2.3577E+00	1.5613E+00	124.0	1.8556E+00	2.8419E+00
4.0	5.7969E-01	5.7623E-01	66.0	2.4355E+00	1.6210E+00	126.0	1.8165E+00	2.8562E+00
6.0	5.8847E-01	5.8066E-01	68.0	2.5087E+00	1.6813E+00	128.0	1.7868E+00	2.8698E+00
8.0	6.0081E-01	5.8687E-01	70.0	2.5767E+00	1.7420E+00	130.0	1.7672E+00	2.8828E+00
10.0	6.1678E-01	5.9490E-01	72.0	2.6386E+00	1.8028E+00	132.0	1.7583E+00	2.8954E+00
12.0	6.3643E-01	6.0475E-01	74.0	2.6938E+00	1.8634E+00	134.0	1.7606E+00	2.9078E+00
14.0	6.5985E-01	6.1646E-01	76.0	2.7418E+00	1.9238E+00	136.0	1.7741E+00	2.9202E+00
16.0	6.8710E-01	6.3005E-01	78.0	2.7816E+00	1.9835E+00	138.0	1.7990E+00	2.9327E+00
18.0	7.1828E-01	6.4556E-01	80.0	2.8136E+00	2.0424E+00	140.0	1.8349E+00	2.9454E+00
20.0	7.5346E-01	6.6302E-01	82.0	2.8365E+00	2.1003E+00	142.0	1.8815E+00	2.9583E+00
22.0	7.9270E-01	6.8246E-01	84.0	2.8505E+00	2.1568E+00	144.0	1.9380E+00	2.9716E+00
24.0	8.3608E-01	7.0393E-01	86.0	2.8552E+00	2.2126E+00	146.0	2.0037E+00	2.9852E+00
26.0	8.8362E-01	7.2745E-01	88.0	2.8507E+00	2.2653E+00	148.0	2.0775E+00	2.9990E+00
28.0	9.3535E-01	7.5306E-01	90.0	2.8370E+00	2.3168E+00	150.0	2.1593E+00	3.0131E+00
30.0	9.9125E-01	7.8077E-01	92.0	2.8142E+00	2.3669E+00	152.0	2.2444E+00	3.0274E+00
32.0	1.0513E+00	8.1063E-01	94.0	2.7828E+00	2.4134E+00	154.0	2.3346E+00	3.0417E+00
34.0	1.1154E+00	8.4264E-01	96.0	2.7432E+00	2.4583E+00	156.0	2.4274E+00	3.0559E+00
36.0	1.1834E+00	8.7681E-01	98.0	2.6959E+00	2.5008E+00	158.0	2.5209E+00	3.0699E+00
38.0	1.2552E+00	9.1315E-01	100.0	2.6418E+00	2.5408E+00	160.0	2.6136E+00	3.0834E+00
40.0	1.3305E+00	9.5165E-01	102.0	2.5817E+00	2.5782E+00	162.0	2.7036E+00	3.0965E+00
42.0	1.4090E+00	9.9228E-01	104.0	2.5166E+00	2.6131E+00	164.0	2.7895E+00	3.1087E+00
44.0	1.4905E+00	1.0350E+00	106.0	2.4475E+00	2.6455E+00	166.0	2.8695E+00	3.1201E+00
46.0	1.5746E+00	1.0798E+00	108.0	2.3756E+00	2.6755E+00	168.0	2.9423E+00	3.1303E+00
48.0	1.6608E+00	1.1266E+00	110.0	2.3022E+00	2.7031E+00	170.0	3.0063E+00	3.1392E+00
50.0	1.7486E+00	1.1754E+00	112.0	2.2285E+00	2.7284E+00	172.0	3.0605E+00	3.1468E+00
52.0	1.8375E+00	1.2260E+00	114.0	2.1559E+00	2.7516E+00	174.0	3.1037E+00	3.1528E+00
54.0	1.9269E+00	1.2783E+00	116.0	2.0858E+00	2.7728E+00	176.0	3.1352E+00	3.1572E+00
56.0	2.0162E+00	1.3323E+00	118.0	2.0194E+00	2.7923E+00	178.0	3.1543E+00	3.1598E+00
58.0	2.1046E+00	1.3877E+00	120.0	1.9581E+00	2.8101E+00	180.0	3.1607E+00	3.1607E+00
60.0	2.1915E+00	1.4445E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = 1.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	3.2901E-01	3.2901E-01	62.0	2.0510E+00	8.6219E-01	122.0	2.4557E+00	3.0126E+00
2.0	3.2943E-01	3.2903E-01	64.0	2.1834E+00	9.2075E-01	124.0	2.3757E+00	3.0640E+00
4.0	3.3073E-01	3.2911E-01	66.0	2.3155E+00	9.8261E-01	126.0	2.3051E+00	3.1139E+00
6.0	3.3300E-01	3.2926E-01	68.0	2.4460E+00	1.0476E+00	128.0	2.2457E+00	3.1624E+00
8.0	3.3641E-01	3.2954E-01	70.0	2.5736E+00	1.1157E+00	130.0	2.1993E+00	3.2098E+00
10.0	3.4118E-01	3.2999E-01	72.0	2.6970E+00	1.1865E+00	132.0	2.1671E+00	3.2563E+00
12.0	3.4759E-01	3.3071E-01	74.0	2.8148E+00	1.2595E+00	134.0	2.1503E+00	3.3021E+00
14.0	3.5599E-01	3.3178E-01	76.0	2.9258E+00	1.3352E+00	136.0	2.1498E+00	3.3474E+00
16.0	3.6675E-01	3.3331E-01	78.0	3.0287E+00	1.4132E+00	138.0	2.1660E+00	3.3922E+00
18.0	3.8028E-01	3.3542E-01	80.0	3.1222E+00	1.4928E+00	140.0	2.1992E+00	3.4368E+00
20.0	3.9703E-01	3.3825E-01	82.0	3.2053E+00	1.5734E+00	142.0	2.2490E+00	3.4811E+00
22.0	4.1748E-01	3.4195E-01	84.0	3.2768E+00	1.6552E+00	144.0	2.3149E+00	3.5252E+00
24.0	4.4209E-01	3.4667E-01	86.0	3.3360E+00	1.7377E+00	146.0	2.3959E+00	3.5691E+00
26.0	4.7134E-01	3.5259E-01	88.0	3.3820E+00	1.8206E+00	148.0	2.4907E+00	3.6126E+00
28.0	5.0569E-01	3.5988E-01	90.0	3.4143E+00	1.9033E+00	150.0	2.5977E+00	3.6557E+00
30.0	5.4559E-01	3.6873E-01	92.0	3.4326E+00	1.9857E+00	152.0	2.7149E+00	3.6982E+00
32.0	5.9145E-01	3.7932E-01	94.0	3.4367E+00	2.0679E+00	154.0	2.8402E+00	3.7397E+00
34.0	6.4363E-01	3.9185E-01	96.0	3.4267E+00	2.1479E+00	156.0	2.9711E+00	3.7801E+00
36.0	7.0244E-01	4.0651E-01	98.0	3.4028E+00	2.2272E+00	158.0	3.1051E+00	3.8191E+00
38.0	7.6811E-01	4.2348E-01	100.0	3.3657E+00	2.3048E+00	160.0	3.2395E+00	3.8562E+00
40.0	8.4081E-01	4.4295E-01	102.0	3.3160E+00	2.3805E+00	162.0	3.3716E+00	3.8913E+00
42.0	9.2062E-01	4.6510E-01	104.0	3.2549E+00	2.4542E+00	164.0	3.4985E+00	3.9239E+00
44.0	1.0075E+00	4.9009E-01	106.0	3.1836E+00	2.5256E+00	166.0	3.6178E+00	3.9536E+00
46.0	1.1014E+00	5.1808E-01	108.0	3.1036E+00	2.5948E+00	168.0	3.7268E+00	3.9802E+00
48.0	1.2019E+00	5.4920E-01	110.0	3.0165E+00	2.6615E+00	170.0	3.8234E+00	4.0033E+00
50.0	1.3089E+00	5.8358E-01	112.0	2.9241E+00	2.7257E+00	172.0	3.9054E+00	4.0236E+00
52.0	1.4218E+00	6.2133E-01	114.0	2.8285E+00	2.7876E+00	174.0	3.9710E+00	4.0379E+00
54.0	1.5400E+00	6.6250E-01	116.0	2.7317E+00	2.8471E+00	176.0	4.0190E+00	4.0490E+00
56.0	1.6629E+00	7.0717E-01	118.0	2.6358E+00	2.9043E+00	178.0	4.0432E+00	4.0557E+00
58.0	1.7897E+00	7.5535E-01	120.0	2.5431E+00	2.9594E+00	180.0	4.0579E+00	4.0579E+00
60.0	1.9184E+00	8.0704E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 2.0

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE		
H-PLANE			H-PLANE			H-PLANE		
ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE
0.0	1.0081E+00	1.0081E+00	62.0	1.4280E+00	7.1260E-01	122.0	2.9158E+00	3.1211E+00
2.0	1.0057E+00	1.0070E+00	64.0	1.5564E+00	7.3963E-01	124.0	2.8354E+00	3.2122E+00
4.0	9.9841E-01	1.0037E+00	66.0	1.6915E+00	7.7185E-01	126.0	2.7625E+00	3.3025E+00
6.0	9.8646E-01	9.9821E-01	68.0	1.8321E+00	8.0955E-01	128.0	2.6916E+00	3.3919E+00
8.0	9.7010E-01	9.9072E-01	70.0	1.9769E+00	8.5278E-01	130.0	2.6410E+00	3.4809E+00
10.0	9.4971E-01	9.8111E-01	72.0	2.1243E+00	9.0155E-01	132.0	2.6150E+00	3.5694E+00
12.0	9.2578E-01	9.6944E-01	74.0	2.2727E+00	9.5582E-01	134.0	2.5974E+00	3.6578E+00
14.0	8.9845E-01	9.5619E-01	76.0	2.4205E+00	1.0155E+00	136.0	2.5901E+00	3.7461E+00
16.0	8.6961E-01	9.4112E-01	78.0	2.5658E+00	1.0804E+00	138.0	2.6190E+00	3.8344E+00
18.0	8.3877E-01	9.2452E-01	80.0	2.7070E+00	1.1503E+00	140.0	2.6622E+00	3.9239E+00
20.0	8.0713E-01	9.0656E-01	82.0	2.8421E+00	1.2249E+00	142.0	2.7257E+00	4.0113E+00
22.0	7.7556E-01	8.8745E-01	84.0	2.9695E+00	1.3041E+00	144.0	2.8102E+00	4.0998E+00
24.0	7.4495E-01	8.6741E-01	86.0	3.0874E+00	1.3873E+00	146.0	2.9149E+00	4.1880E+00
26.0	7.1625E-01	8.4657E-01	88.0	3.1943E+00	1.4742E+00	148.0	3.0384E+00	4.2757E+00
28.0	6.9042E-01	8.2549E-01	90.0	3.2888E+00	1.5645E+00	150.0	3.1790E+00	4.3626E+00
30.0	6.6842E-01	8.0416E-01	92.0	3.3695E+00	1.6576E+00	152.0	3.3342E+00	4.4483E+00
32.0	6.5121E-01	7.8296E-01	94.0	3.4354E+00	1.7530E+00	154.0	3.5014E+00	4.5323E+00
34.0	6.3973E-01	7.6222E-01	96.0	3.4857E+00	1.8505E+00	156.0	3.6774E+00	4.6139E+00
36.0	6.3483E-01	7.4226E-01	98.0	3.5199E+00	1.9493E+00	158.0	3.8586E+00	4.6926E+00
38.0	6.3752E-01	7.2341E-01	100.0	3.5378E+00	2.0492E+00	160.0	4.0415E+00	4.7677E+00
40.0	6.4841E-01	7.0603E-01	102.0	3.5393E+00	2.1497E+00	162.0	4.2221E+00	4.8385E+00
42.0	6.6826E-01	6.9047E-01	104.0	3.5250E+00	2.2503E+00	164.0	4.3967E+00	4.9042E+00
44.0	6.9767E-01	6.7710E-01	106.0	3.4956E+00	2.3508E+00	166.0	4.5614E+00	4.9643E+00
46.0	7.3713E-01	6.6628E-01	108.0	3.4523E+00	2.4507E+00	168.0	4.7125E+00	5.0179E+00
48.0	7.8701E-01	6.5838E-01	110.0	3.3964E+00	2.5499E+00	170.0	4.8488E+00	5.0644E+00
50.0	8.4754E-01	6.5375E-01	112.0	3.3298E+00	2.6481E+00	172.0	4.9611E+00	5.1034E+00
52.0	9.1581E-01	6.5274E-01	114.0	3.2544E+00	2.7452E+00	174.0	5.0528E+00	5.1342E+00
54.0	1.0007E+00	6.5568E-01	116.0	3.1728E+00	2.8410E+00	176.0	5.1199E+00	5.1565E+00
56.0	1.0931E+00	6.6208E-01	118.0	3.0873E+00	2.9356E+00	178.0	5.1608E+00	5.1700E+00
58.0	1.1955E+00	6.7463E-01	120.0	3.0007E+00	3.0289E+00	180.0	5.1746E+00	5.1746E+00
60.0	1.3074E+00	6.9119E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = 2.2

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.7863E+00	1.7863E+00	62.0	7.0069E-01	8.9066E-01	122.0	3.3320E+00	3.0096E+00
2.0	1.7821E+00	1.7648E+00	64.0	7.7584E-01	8.7644E-01	124.0	3.2818E+00	3.1326E+00
4.0	1.7695E+00	1.7804E+00	66.0	8.6421E-01	8.6766E-01	126.0	3.2327E+00	3.2566E+00
6.0	1.7488E+00	1.7730E+00	68.0	9.6536E-01	8.6474E-01	128.0	3.1881E+00	3.3817E+00
8.0	1.7201E+00	1.7628E+00	70.0	1.0786E+00	8.6806E-01	130.0	3.1514E+00	3.5080E+00
10.0	1.6837E+00	1.7437E+00	72.0	1.2031E+00	8.7794E-01	132.0	3.1259E+00	3.6357E+00
12.0	1.6402E+00	1.7337E+00	74.0	1.3378E+00	8.9467E-01	134.0	3.1149E+00	3.7649E+00
14.0	1.5901E+00	1.7150E+00	76.0	1.4812E+00	9.1845E-01	136.0	3.1209E+00	3.8957E+00
16.0	1.5339E+00	1.6935E+00	78.0	1.6321E+00	9.4345E-01	138.0	3.1406E+00	4.0283E+00
18.0	1.4723E+00	1.6694E+00	80.0	1.7866E+00	9.6775E-01	140.0	3.1937E+00	4.1625E+00
20.0	1.4061E+00	1.6428E+00	82.0	1.9489E+00	1.0334E+00	142.0	3.2635E+00	4.2983E+00
22.0	1.3362E+00	1.6137E+00	84.0	2.1110E+00	1.0862E+00	144.0	3.3597E+00	4.4353E+00
24.0	1.2634E+00	1.5822E+00	86.0	2.2730E+00	1.1462E+00	146.0	3.4733E+00	4.5733E+00
26.0	1.1886E+00	1.5487E+00	88.0	2.4324E+00	1.2130E+00	148.0	3.6124E+00	4.7116E+00
28.0	1.1130E+00	1.5131E+00	90.0	2.5874E+00	1.2865E+00	150.0	3.7725E+00	4.8498E+00
30.0	1.0374E+00	1.4757E+00	92.0	2.7355E+00	1.3662E+00	152.0	3.9513E+00	4.9869E+00
32.0	9.6309E-01	1.4357E+00	94.0	2.8748E+00	1.4519E+00	154.0	4.1460E+00	5.1221E+00
34.0	8.9106E-01	1.3904E+00	96.0	3.0034E+00	1.5429E+00	156.0	4.3531E+00	5.2544E+00
36.0	8.2244E-01	1.3550E+00	98.0	3.1193E+00	1.6389E+00	158.0	4.5684E+00	5.3820E+00
38.0	7.5836E-01	1.3120E+00	100.0	3.2211E+00	1.7394E+00	160.0	4.7875E+00	5.5055E+00
40.0	6.9991E-01	1.2703E+00	102.0	3.3076E+00	1.8438E+00	162.0	5.0057E+00	5.6218E+00
42.0	6.4819E-01	1.2276E+00	104.0	3.3777E+00	1.9516E+00	164.0	5.2181E+00	5.7303E+00
44.0	6.0426E-01	1.1852E+00	106.0	3.4310E+00	2.0624E+00	166.0	5.4197E+00	5.8298E+00
46.0	5.6914E-01	1.1435E+00	108.0	3.4674E+00	2.1757E+00	168.0	5.6057E+00	5.9188E+00
48.0	5.4379E-01	1.1029E+00	110.0	3.4872E+00	2.2909E+00	170.0	5.7718E+00	5.9981E+00
50.0	5.2907E-01	1.0640E+00	112.0	3.4911E+00	2.4079E+00	172.0	5.9137E+00	6.0610E+00
52.0	5.2579E-01	1.0271E+00	114.0	3.4804E+00	2.5263E+00	174.0	6.0279E+00	6.1125E+00
54.0	5.3465E-01	9.9270E-01	116.0	3.4568E+00	2.6457E+00	176.0	6.1117E+00	6.1498E+00
56.0	5.5621E-01	9.6138E-01	118.0	3.4225E+00	2.7662E+00	178.0	6.1628E+00	6.1724E+00
58.0	5.9090E-01	9.3361E-01	120.0	3.3800E+00	2.8875E+00	180.0	6.1800E+00	6.1800E+00
60.0	6.3903E-01	9.0987E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = 2.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.9286E+00	1.9296E+00	62.0	3.1838E-01	1.1198E+00	122.0	3.7559E+00	2.7526E+00	122.0	3.7559E+00	2.7526E+00
2.0	1.9258E+00	1.9279E+00	64.0	3.1873E-01	1.0811E+00	124.0	3.7515E+00	2.8988E+00	124.0	3.7515E+00	2.8988E+00
4.0	1.9165E+00	1.9258E+00	66.0	3.3339E-01	1.0456E+00	126.0	3.7383E+00	3.0480E+00	126.0	3.7383E+00	3.0480E+00
6.0	1.9014E+00	1.9222E+00	68.0	3.6331E-01	1.0137E+00	128.0	3.7200E+00	3.2011E+00	128.0	3.7200E+00	3.2011E+00
8.0	1.8805E+00	1.9172E+00	70.0	4.0926E-01	9.8618E-01	130.0	3.7009E+00	3.3581E+00	130.0	3.7009E+00	3.3581E+00
10.0	1.8537E+00	1.9107E+00	72.0	4.7182E-01	9.6365E-01	132.0	3.6851E+00	3.5189E+00	132.0	3.6851E+00	3.5189E+00
12.0	1.8212E+00	1.9026E+00	74.0	5.5129E-01	9.4675E-01	134.0	3.6771E+00	3.6839E+00	134.0	3.6771E+00	3.6839E+00
14.0	1.7832E+00	1.8929E+00	76.0	6.4775E-01	9.3609E-01	136.0	3.6812E+00	3.8530E+00	136.0	3.6812E+00	3.8530E+00
16.0	1.7399E+00	1.8816E+00	78.0	7.6091E-01	9.3221E-01	138.0	3.7012E+00	4.0265E+00	138.0	3.7012E+00	4.0265E+00
18.0	1.6915E+00	1.8684E+00	80.0	8.9020E-01	9.3562E-01	140.0	3.7407E+00	4.2041E+00	140.0	3.7407E+00	4.2041E+00
20.0	1.6383E+00	1.8534E+00	82.0	1.0347E+00	9.4675E-01	142.0	3.8027E+00	4.3858E+00	142.0	3.8027E+00	4.3858E+00
22.0	1.5805E+00	1.8365E+00	84.0	1.1931E+00	9.6598E-01	144.0	3.8893E+00	4.5711E+00	144.0	3.8893E+00	4.5711E+00
24.0	1.5184E+00	1.8175E+00	86.0	1.3637E+00	9.9358E-01	146.0	4.0017E+00	4.7598E+00	146.0	4.0017E+00	4.7598E+00
26.0	1.4525E+00	1.7965E+00	88.0	1.5446E+00	1.0297E+00	148.0	4.1404E+00	4.9503E+00	148.0	4.1404E+00	4.9503E+00
28.0	1.3830E+00	1.7734E+00	90.0	1.7336E+00	1.0745E+00	150.0	4.3048E+00	5.1425E+00	150.0	4.3048E+00	5.1425E+00
30.0	1.3105E+00	1.7480E+00	92.0	1.9280E+00	1.1279E+00	152.0	4.4931E+00	5.3349E+00	152.0	4.4931E+00	5.3349E+00
32.0	1.2353E+00	1.7205E+00	94.0	2.1250E+00	1.1899E+00	154.0	4.7027E+00	5.5260E+00	154.0	4.7027E+00	5.5260E+00
34.0	1.1581E+00	1.6907E+00	96.0	2.3218E+00	1.2602E+00	156.0	4.9300E+00	5.7144E+00	156.0	4.9300E+00	5.7144E+00
36.0	1.0794E+00	1.6587E+00	98.0	2.5154E+00	1.3386E+00	158.0	5.1705E+00	5.8981E+00	158.0	5.1705E+00	5.8981E+00
38.0	9.9994E-01	1.6246E+00	100.0	2.7026E+00	1.4246E+00	160.0	5.4191E+00	6.0753E+00	160.0	5.4191E+00	6.0753E+00
40.0	9.2036E-01	1.5894E+00	102.0	2.8807E+00	1.5180E+00	162.0	5.6695E+00	6.2440E+00	162.0	5.6695E+00	6.2440E+00
42.0	8.4149E-01	1.5502E+00	104.0	3.0468E+00	1.6182E+00	164.0	5.9169E+00	6.4021E+00	164.0	5.9169E+00	6.4021E+00
44.0	7.6420E-01	1.5102E+00	106.0	3.1985E+00	1.7248E+00	166.0	6.1537E+00	6.5475E+00	166.0	6.1537E+00	6.5475E+00
46.0	6.8945E-01	1.4687E+00	108.0	3.3337E+00	1.8372E+00	168.0	6.3743E+00	6.6793E+00	168.0	6.3743E+00	6.6793E+00
48.0	6.1827E-01	1.4258E+00	110.0	3.4508E+00	1.9550E+00	170.0	6.5724E+00	6.7925E+00	170.0	6.5724E+00	6.7925E+00
50.0	5.5175E-01	1.3818E+00	112.0	3.5486E+00	2.0777E+00	172.0	6.7428E+00	6.8885E+00	172.0	6.7428E+00	6.8885E+00
52.0	4.9105E-01	1.3372E+00	114.0	3.6268E+00	2.2048E+00	174.0	6.8807E+00	6.9647E+00	174.0	6.8807E+00	6.9647E+00
54.0	4.3740E-01	1.2923E+00	116.0	3.6854E+00	2.3362E+00	176.0	6.9821E+00	7.0201E+00	176.0	6.9821E+00	7.0201E+00
56.0	3.9203E-01	1.2476E+00	118.0	3.7254E+00	2.4714E+00	178.0	7.0441E+00	7.0537E+00	178.0	7.0441E+00	7.0537E+00
58.0	3.5624E-01	1.2036E+00	120.0	3.7481E+00	2.6102E+00	180.0	7.0650E+00	7.0650E+00	180.0	7.0650E+00	7.0650E+00
60.0	3.3128E-01	1.1608E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = 2.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.3895E+00	1.3895E+00	62.0	5.0888E-01	1.2618E+00	122.0	4.0991E+00	2.4693E+00
2.0	1.3898E+00	1.3901E+00	64.0	4.4055E-01	1.2269E+00	124.0	4.1408E+00	2.6330E+00
4.0	1.3906E+00	1.3919E+00	66.0	3.7986E-01	1.1910E+00	126.0	4.1818E+00	2.8037E+00
6.0	1.3920E+00	1.3948E+00	68.0	3.2922E-01	1.1547E+00	128.0	4.1977E+00	2.9814E+00
8.0	1.3938E+00	1.3988E+00	70.0	2.9109E-01	1.1189E+00	130.0	4.2021E+00	3.1665E+00
10.0	1.3959E+00	1.4039E+00	72.0	2.6788E-01	1.0842E+00	132.0	4.2002E+00	3.3589E+00
12.0	1.3981E+00	1.4098E+00	74.0	2.6189E-01	1.0515E+00	134.0	4.1978E+00	3.5591E+00
14.0	1.4002E+00	1.4166E+00	76.0	2.7521E-01	1.0216E+00	136.0	4.2003E+00	3.7670E+00
16.0	1.4019E+00	1.4239E+00	78.0	3.0965E-01	9.9548E-01	138.0	4.2112E+00	3.9828E+00
18.0	1.4030E+00	1.4317E+00	80.0	3.6667E-01	9.7400E-01	140.0	4.2417E+00	4.2066E+00
20.0	1.4029E+00	1.4398E+00	82.0	4.4727E-01	9.5805E-01	142.0	4.2970E+00	4.4379E+00
22.0	1.4015E+00	1.4480E+00	84.0	5.5155E-01	9.4848E-01	144.0	4.3754E+00	4.6765E+00
24.0	1.3981E+00	1.4560E+00	86.0	6.8065E-01	9.4509E-01	146.0	4.4831E+00	4.9216E+00
26.0	1.3922E+00	1.4635E+00	88.0	8.3270E-01	9.5162E-01	148.0	4.6222E+00	5.1722E+00
28.0	1.3834E+00	1.4704E+00	90.0	1.0068E+00	9.6571E-01	150.0	4.7934E+00	5.4269E+00
30.0	1.3711E+00	1.4764E+00	92.0	1.2010E+00	9.8990E-01	152.0	4.9960E+00	5.6841E+00
32.0	1.3547E+00	1.4811E+00	94.0	1.4128E+00	1.0216E+00	154.0	5.2277E+00	5.9418E+00
34.0	1.3337E+00	1.4843E+00	96.0	1.6390E+00	1.0642E+00	156.0	5.4850E+00	6.1976E+00
36.0	1.3076E+00	1.4857E+00	98.0	1.8760E+00	1.1168E+00	158.0	5.7628E+00	6.4489E+00
38.0	1.2760E+00	1.4850E+00	100.0	2.1198E+00	1.1795E+00	160.0	6.0549E+00	6.6928E+00
40.0	1.2385E+00	1.4821E+00	102.0	2.3661E+00	1.2522E+00	162.0	6.3542E+00	6.9264E+00
42.0	1.1949E+00	1.4766E+00	104.0	2.6104E+00	1.3348E+00	164.0	6.6527E+00	7.1464E+00
44.0	1.1451E+00	1.4683E+00	106.0	2.8492E+00	1.4271E+00	166.0	6.9422E+00	7.3498E+00
46.0	1.0892E+00	1.4572E+00	108.0	3.0751E+00	1.5287E+00	168.0	7.2143E+00	7.5334E+00
48.0	1.0275E+00	1.4430E+00	110.0	3.2871E+00	1.6392E+00	170.0	7.4607E+00	7.6944E+00
50.0	9.6057E-01	1.4257E+00	112.0	3.4806E+00	1.7582E+00	172.0	7.6740E+00	7.8300E+00
52.0	8.8911E-01	1.4054E+00	114.0	3.6527E+00	1.8854E+00	174.0	7.8474E+00	7.9381E+00
54.0	8.1418E-01	1.3819E+00	116.0	3.8013E+00	2.0204E+00	176.0	7.9754E+00	8.0167E+00
56.0	7.3703E-01	1.3556E+00	118.0	3.9251E+00	2.1629E+00	178.0	8.0539E+00	8.0644E+00
58.0	6.5921E-01	1.3266E+00	120.0	4.0238E+00	2.3125E+00	180.0	8.0804E+00	8.0804E+00
60.0	5.8249E-01	1.2952E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 2.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	7.1259E-01	7.1259E-01	62.0	1.1159E+00	1.2987E+00	122.0	4.1793E+00	2.2056E+00	122.0	4.1793E+00	2.2056E+00	122.0	4.1793E+00	2.2056E+00
2.0	7.1537E-01	7.1383E-01	64.0	1.0131E+00	1.2898E+00	124.0	4.3019E+00	2.3796E+00	124.0	4.3019E+00	2.3796E+00	124.0	4.3019E+00	2.3796E+00
4.0	7.2368E-01	7.1755E-01	66.0	9.0529E-01	1.2765E+00	126.0	4.3964E+00	2.5652E+00	126.0	4.3964E+00	2.5652E+00	126.0	4.3964E+00	2.5652E+00
6.0	7.3751E-01	7.2373E-01	68.0	7.9562E-01	1.2589E+00	128.0	4.4655E+00	2.7625E+00	128.0	4.4655E+00	2.7625E+00	128.0	4.4655E+00	2.7625E+00
8.0	7.5682E-01	7.3237E-01	70.0	6.8751E-01	1.2375E+00	130.0	4.5136E+00	2.9717E+00	130.0	4.5136E+00	2.9717E+00	130.0	4.5136E+00	2.9717E+00
10.0	7.8151E-01	7.4343E-01	72.0	5.8469E-01	1.2129E+00	132.0	4.5460E+00	3.1933E+00	132.0	4.5460E+00	3.1933E+00	132.0	4.5460E+00	3.1933E+00
12.0	8.1148E-01	7.5698E-01	74.0	4.9105E-01	1.1856E+00	134.0	4.5632E+00	3.4275E+00	134.0	4.5632E+00	3.4275E+00	134.0	4.5632E+00	3.4275E+00
14.0	8.4654E-01	7.7268E-01	76.0	4.1059E-01	1.1565E+00	136.0	4.5903E+00	3.6748E+00	136.0	4.5903E+00	3.6748E+00	136.0	4.5903E+00	3.6748E+00
16.0	8.8643E-01	7.9076E-01	78.0	3.4725E-01	1.1266E+00	138.0	4.6169E+00	3.9353E+00	138.0	4.6169E+00	3.9353E+00	138.0	4.6169E+00	3.9353E+00
18.0	9.3081E-01	8.1104E-01	80.0	3.0480E-01	1.0968E+00	140.0	4.6566E+00	4.2092E+00	140.0	4.6566E+00	4.2092E+00	140.0	4.6566E+00	4.2092E+00
20.0	9.7922E-01	8.3341E-01	82.0	2.8672E-01	1.0692E+00	142.0	4.7172E+00	4.4963E+00	142.0	4.7172E+00	4.4963E+00	142.0	4.7172E+00	4.4963E+00
22.0	1.0311E+00	8.5775E-01	84.0	2.9601E-01	1.0420E+00	144.0	4.8048E+00	4.7960E+00	144.0	4.8048E+00	4.7960E+00	144.0	4.8048E+00	4.7960E+00
24.0	1.0857E+00	8.8390E-01	86.0	3.3510E-01	1.0195E+00	146.0	4.9251E+00	5.1077E+00	146.0	4.9251E+00	5.1077E+00	146.0	4.9251E+00	5.1077E+00
26.0	1.1422E+00	9.1167E-01	88.0	4.0573E-01	1.0018E+00	148.0	5.0822E+00	5.4299E+00	148.0	5.0822E+00	5.4299E+00	148.0	5.0822E+00	5.4299E+00
28.0	1.1996E+00	9.4084E-01	90.0	5.0880E-01	9.9007E-01	150.0	5.2786E+00	5.7609E+00	150.0	5.2786E+00	5.7609E+00	150.0	5.2786E+00	5.7609E+00
30.0	1.2569E+00	9.7115E-01	92.0	6.4433E-01	9.8551E-01	152.0	5.5146E+00	6.0984E+00	152.0	5.5146E+00	6.0984E+00	152.0	5.5146E+00	6.0984E+00
32.0	1.3126E+00	1.0023E+00	94.0	8.1139E-01	9.8917E-01	154.0	5.7888E+00	6.4397E+00	154.0	5.7888E+00	6.4397E+00	154.0	5.7888E+00	6.4397E+00
34.0	1.3655E+00	1.0340E+00	96.0	1.0081E+00	1.0020E+00	156.0	6.0976E+00	6.7814E+00	156.0	6.0976E+00	6.7814E+00	156.0	6.0976E+00	6.7814E+00
36.0	1.4141E+00	1.0658E+00	98.0	1.2316E+00	1.0249E+00	158.0	6.4355E+00	7.1197E+00	158.0	6.4355E+00	7.1197E+00	158.0	6.4355E+00	7.1197E+00
38.0	1.4570E+00	1.0975E+00	100.0	1.4780E+00	1.0585E+00	160.0	6.7949E+00	7.4505E+00	160.0	6.7949E+00	7.4505E+00	160.0	6.7949E+00	7.4505E+00
40.0	1.4925E+00	1.1284E+00	102.0	1.7430E+00	1.1034E+00	162.0	7.1670E+00	7.7892E+00	162.0	7.1670E+00	7.7892E+00	162.0	7.1670E+00	7.7892E+00
42.0	1.5193E+00	1.1582E+00	104.0	2.0211E+00	1.1600E+00	164.0	7.5416E+00	8.0712E+00	164.0	7.5416E+00	8.0712E+00	164.0	7.5416E+00	8.0712E+00
44.0	1.5360E+00	1.1865E+00	106.0	2.3066E+00	1.2285E+00	166.0	7.9077E+00	8.3518E+00	166.0	7.9077E+00	8.3518E+00	166.0	7.9077E+00	8.3518E+00
46.0	1.5413E+00	1.2127E+00	108.0	2.5935E+00	1.3091E+00	168.0	8.2542E+00	8.6063E+00	168.0	8.2542E+00	8.6063E+00	168.0	8.2542E+00	8.6063E+00
48.0	1.5341E+00	1.2364E+00	110.0	2.8757E+00	1.4018E+00	170.0	8.5698E+00	8.8302E+00	170.0	8.5698E+00	8.8302E+00	170.0	8.5698E+00	8.8302E+00
50.0	1.5138E+00	1.2571E+00	112.0	3.1472E+00	1.5066E+00	172.0	8.8443E+00	9.0195E+00	172.0	8.8443E+00	9.0195E+00	172.0	8.8443E+00	9.0195E+00
52.0	1.4798E+00	1.2745E+00	114.0	3.4025E+00	1.6232E+00	174.0	9.0683E+00	9.1707E+00	174.0	9.0683E+00	9.1707E+00	174.0	9.0683E+00	9.1707E+00
54.0	1.4320E+00	1.2880E+00	116.0	3.6367E+00	1.7516E+00	176.0	9.2341E+00	9.2809E+00	176.0	9.2341E+00	9.2809E+00	176.0	9.2341E+00	9.2809E+00
56.0	1.3707E+00	1.2974E+00	118.0	3.8459E+00	1.8915E+00	178.0	9.3360E+00	9.3479E+00	178.0	9.3360E+00	9.3479E+00	178.0	9.3360E+00	9.3479E+00
58.0	1.2967E+00	1.3025E+00	120.0	4.0273E+00	2.0428E+00	180.0	9.3703E+00	9.3703E+00	180.0	9.3703E+00	9.3703E+00	180.0	9.3703E+00	9.3703E+00
60.0	1.2112E+00	1.3029E+00												

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 3.0

ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE
0.0	5.2077E-01	5.2077E-01	62.0	1.6801E+00	1.2549E+00	122.0	3.9302E+00	1.9586E+00
2.0	5.2253E-01	5.2127E-01	64.0	1.5970E+00	1.2757E+00	124.0	4.1397E+00	2.1296E+00
4.0	5.2790E-01	5.2219E-01	66.0	1.4969E+00	1.2913E+00	126.0	4.3185E+00	2.3169E+00
6.0	5.3703E-01	5.2518E-01	68.0	1.3821E+00	1.3013E+00	128.0	4.4672E+00	2.5209E+00
8.0	5.5021E-01	5.2912E-01	70.0	1.2551E+00	1.3056E+00	130.0	4.5884E+00	2.7424E+00
10.0	5.6777E-01	5.3410E-01	72.0	1.1195E+00	1.3041E+00	132.0	4.6804E+00	2.9820E+00
12.0	5.9013E-01	5.4045E-01	74.0	9.7929E-01	1.2968E+00	134.0	4.7671E+00	3.2405E+00
14.0	6.1772E-01	5.4831E-01	76.0	8.3886E-01	1.2842E+00	136.0	4.8380E+00	3.5186E+00
16.0	6.5097E-01	5.5735E-01	78.0	7.0316E-01	1.2667E+00	138.0	4.9075E+00	3.8170E+00
18.0	6.9026E-01	5.6923E-01	80.0	5.7734E-01	1.2450E+00	140.0	4.9845E+00	4.1359E+00
20.0	7.3588E-01	5.8261E-01	82.0	4.6667E-01	1.2201E+00	142.0	5.0783E+00	4.4757E+00
22.0	7.9800E-01	5.9816E-01	84.0	3.7635E-01	1.1928E+00	144.0	5.1976E+00	4.8369E+00
24.0	8.4661E-01	6.1601E-01	86.0	3.1129E-01	1.1646E+00	146.0	5.3501E+00	5.2159E+00
26.0	8.1153E-01	6.3631E-01	88.0	2.7597E-01	1.1366E+00	148.0	5.5423E+00	5.6140E+00
28.0	3.8234E-01	6.5913E-01	90.0	2.7424E-01	1.1104E+00	150.0	5.7784E+00	6.0283E+00
30.0	1.0584E+00	6.8453E-01	92.0	3.0908E-01	1.0874E+00	152.0	6.0608E+00	6.4556E+00
32.0	1.1387E+00	7.1257E-01	94.0	3.8251E-01	1.0592E+00	154.0	6.3839E+00	6.8924E+00
34.0	1.2222E+00	7.4304E-01	96.0	4.9540E-01	1.0572E+00	156.0	6.7597E+00	7.3342E+00
36.0	1.3073E+00	7.7599E-01	98.0	6.4741E-01	1.0529E+00	158.0	7.1674E+00	7.7756E+00
38.0	1.3924E+00	8.1120E-01	100.0	8.3693E-01	1.0577E+00	160.0	7.6037E+00	8.2107E+00
40.0	1.4756E+00	8.4811E-01	102.0	1.0610E+00	1.0728E+00	162.0	8.0580E+00	8.6332E+00
42.0	1.5548E+00	8.8731E-01	104.0	1.3156E+00	1.0893E+00	164.0	8.5190E+00	9.0363E+00
44.0	1.6279E+00	9.2751E-01	106.0	1.5954E+00	1.1198E+00	166.0	8.9700E+00	9.4129E+00
46.0	1.6926E+00	9.6855E-01	108.0	1.8943E+00	1.1901E+00	168.0	9.3998E+00	9.7563E+00
48.0	1.7467E+00	1.0099E+00	110.0	2.2054E+00	1.2558E+00	170.0	9.7930E+00	1.0060E+01
50.0	1.7880E+00	1.0510E+00	112.0	2.5214E+00	1.3357E+00	172.0	1.0136E+01	1.0317E+01
52.0	1.8146E+00	1.0911E+00	114.0	2.8348E+00	1.4301E+00	174.0	1.0417E+01	1.0524E+01
54.0	1.8247E+00	1.1297E+00	116.0	3.1385E+00	1.5394E+00	176.0	1.0625E+01	1.0674E+01
56.0	1.8170E+00	1.1661E+00	118.0	3.4259E+00	1.6638E+00	178.0	1.0753E+01	1.0768E+01
58.0	1.7905E+00	1.1995E+00	120.0	3.6913E+00	1.8034E+00	180.0	1.0797E+01	1.0797E+01
60.0	1.7448E+00	1.2293E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 3.2

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE		
ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE
0.0	62.0	62.0	1.1594E+00	122.0	1.8304E+00	1.7290E+00	1.7290E+00	1.7290E+00
2.0	64.0	64.0	1.8150E+00	124.0	1.9611E+00	3.7674E+00	1.8834E+00	1.8834E+00
4.0	66.0	66.0	1.7783E+00	126.0	1.2303E+00	4.0448E+00	2.0580E+00	2.0580E+00
6.0	68.0	68.0	1.7199E+00	128.0	1.2610E+00	4.2925E+00	2.3537E+00	2.3537E+00
8.0	70.0	70.0	1.6400E+00	130.0	1.2873E+00	4.5107E+00	2.4718E+00	2.4718E+00
10.0	72.0	72.0	1.5400E+00	132.0	1.3086E+00	4.6992E+00	2.7136E+00	2.7136E+00
12.0	74.0	74.0	1.4217E+00	134.0	1.3243E+00	4.8636E+00	2.9805E+00	2.9805E+00
14.0	76.0	76.0	1.2882E+00	136.0	1.3339E+00	5.0095E+00	3.2737E+00	3.2737E+00
16.0	78.0	78.0	1.1430E+00	138.0	1.3372E+00	5.1437E+00	3.5947E+00	3.5947E+00
18.0	80.0	80.0	9.9088E-01	140.0	1.3341E+00	5.2787E+00	3.9446E+00	3.9446E+00
20.0	82.0	82.0	8.3694E-01	142.0	1.3249E+00	5.4217E+00	4.3241E+00	4.3241E+00
22.0	84.0	84.0	6.8702E-01	144.0	1.3101E+00	5.5842E+00	4.7335E+00	4.7335E+00
24.0	86.0	86.0	5.4732E-01	146.0	1.2903E+00	5.7760E+00	5.1723E+00	5.1723E+00
26.0	88.0	88.0	4.2423E-01	148.0	1.2687E+00	6.0061E+00	5.6391E+00	5.6391E+00
28.0	90.0	90.0	3.2408E-01	150.0	1.2403E+00	6.2813E+00	6.1318E+00	6.1318E+00
30.0	92.0	92.0	2.5293E-01	152.0	1.2126E+00	6.6062E+00	6.6469E+00	6.6469E+00
32.0	94.0	94.0	2.1622E-01	154.0	1.1851E+00	6.9821E+00	7.1798E+00	7.1798E+00
34.0	96.0	96.0	1.8606E-01	156.0	1.1596E+00	7.4074E+00	7.7249E+00	7.7249E+00
36.0	98.0	98.0	1.6361E-01	158.0	1.1378E+00	7.8769E+00	8.2753E+00	8.2753E+00
38.0	100.0	100.0	1.5349E-01	160.0	1.1215E+00	8.3821E+00	8.8229E+00	8.8229E+00
40.0	102.0	102.0	1.4690E-01	162.0	1.1124E+00	8.9114E+00	9.3592E+00	9.3592E+00
42.0	104.0	104.0	1.43170E-01	164.0	1.1124E+00	9.4505E+00	9.8747E+00	9.8747E+00
44.0	106.0	106.0	1.4193E-01	166.0	1.1228E+00	9.9834E+00	1.0360E+01	1.0360E+01
46.0	108.0	108.0	1.4288E+00	168.0	1.1453E+00	1.0493E+01	1.0804E+01	1.0804E+01
48.0	110.0	110.0	1.4464E+00	170.0	1.1810E+00	1.0961E+01	1.1199E+01	1.1199E+01
50.0	112.0	112.0	1.4656E+00	172.0	1.2312E+00	1.1371E+01	1.1536E+01	1.1536E+01
52.0	114.0	114.0	2.1032E+00	174.0	1.2967E+00	1.1708E+01	1.1806E+01	1.1806E+01
54.0	116.0	116.0	2.4502E+00	176.0	1.3785E+00	1.1959E+01	1.2004E+01	1.2004E+01
56.0	118.0	118.0	2.7981E+00	178.0	1.4774E+00	1.2113E+01	1.2125E+01	1.2125E+01
58.0	120.0	120.0	3.1386E+00	180.0	1.5940E+00	1.2165E+01	1.2165E+01	1.2165E+01
60.0			1.1210E+00					

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 3.4

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE			E-PLANE		
ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE
0.0	1.4284E+00	62.0	1.5554E+00	1.0445E+00	122.0	2.9155E+00	1.5348E+00	122.0	2.9155E+00	1.5348E+00	122.0
2.0	1.4233E+00	64.0	1.6215E+00	1.0784E+00	124.0	3.3050E+00	1.6642E+00	124.0	3.3050E+00	1.6642E+00	124.0
4.0	1.4083E+00	66.0	1.6725E+00	1.1142E+00	126.0	3.6787E+00	1.8164E+00	126.0	3.6787E+00	1.8164E+00	126.0
6.0	1.3837E+00	68.0	1.7051E+00	1.1508E+00	128.0	4.0222E+00	1.9931E+00	128.0	4.0222E+00	1.9931E+00	128.0
8.0	1.3502E+00	70.0	1.7166E+00	1.1871E+00	130.0	4.3512E+00	2.1961E+00	130.0	4.3512E+00	2.1961E+00	130.0
10.0	1.3088E+00	72.0	1.7047E+00	1.2219E+00	132.0	4.6422E+00	2.4275E+00	132.0	4.6422E+00	2.4275E+00	132.0
12.0	1.2605E+00	74.0	1.6680E+00	1.2542E+00	134.0	4.9025E+00	2.6894E+00	134.0	4.9025E+00	2.6894E+00	134.0
14.0	1.2068E+00	76.0	1.6058E+00	1.2827E+00	136.0	5.1355E+00	2.9841E+00	136.0	5.1355E+00	2.9841E+00	136.0
16.0	1.1491E+00	78.0	1.5187E+00	1.3065E+00	138.0	5.3473E+00	3.3141E+00	138.0	5.3473E+00	3.3141E+00	138.0
18.0	1.0891E+00	80.0	1.4084E+00	1.3248E+00	140.0	5.5467E+00	3.6812E+00	140.0	5.5467E+00	3.6812E+00	140.0
20.0	1.0285E+00	82.0	1.2776E+00	1.3369E+00	142.0	5.7443E+00	4.0874E+00	142.0	5.7443E+00	4.0874E+00	142.0
22.0	9.6911E-01	84.0	1.1306E+00	1.3425E+00	144.0	5.9519E+00	4.5337E+00	144.0	5.9519E+00	4.5337E+00	144.0
24.0	9.1268E-01	86.0	9.7253E-01	1.3414E+00	146.0	6.1819E+00	5.0205E+00	146.0	6.1819E+00	5.0205E+00	146.0
26.0	8.6101E-01	88.0	8.0984E-01	1.3338E+00	148.0	6.4458E+00	5.5470E+00	148.0	6.4458E+00	5.5470E+00	148.0
28.0	8.1579E-01	90.0	6.4974E-01	1.3202E+00	150.0	6.7537E+00	6.1113E+00	150.0	6.7537E+00	6.1113E+00	150.0
30.0	7.7861E-01	92.0	5.0012E-01	1.3015E+00	152.0	7.1133E+00	6.7098E+00	152.0	7.1133E+00	6.7098E+00	152.0
32.0	7.5089E-01	94.0	3.6919E-01	1.2787E+00	154.0	7.5290E+00	7.3370E+00	154.0	7.5290E+00	7.3370E+00	154.0
34.0	7.3386E-01	96.0	2.6515E-01	1.2534E+00	156.0	8.0011E+00	7.9864E+00	156.0	8.0011E+00	7.9864E+00	156.0
36.0	7.2854E-01	98.0	1.9575E-01	1.2271E+00	158.0	8.5261E+00	8.6494E+00	158.0	8.5261E+00	8.6494E+00	158.0
38.0	7.3564E-01	100.0	1.6797E-01	1.2018E+00	160.0	9.0957E+00	9.3158E+00	160.0	9.0957E+00	9.3158E+00	160.0
40.0	7.5559E-01	102.0	1.8754E-01	1.1793E+00	162.0	9.6978E+00	9.9743E+00	162.0	9.6978E+00	9.9743E+00	162.0
42.0	7.8845E-01	104.0	2.5866E-01	1.1617E+00	164.0	1.0315E+01	1.0612E+01	164.0	1.0315E+01	1.0612E+01	164.0
44.0	8.3391E-01	106.0	3.8362E-01	1.1512E+00	166.0	1.0933E+01	1.1217E+01	166.0	1.0933E+01	1.1217E+01	166.0
46.0	8.9127E-01	108.0	5.6266E-01	1.1495E+00	168.0	1.1526E+01	1.1775E+01	168.0	1.1526E+01	1.1775E+01	168.0
48.0	9.5939E-01	110.0	7.9379E-01	1.1588E+00	170.0	1.2075E+01	1.2273E+01	170.0	1.2075E+01	1.2273E+01	170.0
50.0	1.0367E+00	112.0	1.0728E+00	1.1808E+00	172.0	1.2559E+01	1.2699E+01	172.0	1.2559E+01	1.2699E+01	172.0
52.0	1.1212E+00	114.0	1.3936E+00	1.2171E+00	174.0	1.2957E+01	1.3042E+01	174.0	1.2957E+01	1.3042E+01	174.0
54.0	1.2105E+00	116.0	1.7479E+00	1.2693E+00	176.0	1.3255E+01	1.3295E+01	176.0	1.3255E+01	1.3295E+01	176.0
56.0	1.3019E+00	118.0	2.1266E+00	1.3387E+00	178.0	1.3438E+01	1.3449E+01	178.0	1.3438E+01	1.3449E+01	178.0
58.0	1.3920E+00	120.0	2.5193E+00	1.4268E+00	180.0	1.3500E+01	1.3500E+01	180.0	1.3500E+01	1.3500E+01	180.0
60.0	1.4777E+00										

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 3.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.5751E+00	1.5751E+00	62.0	1.0976E+00	9.568E-01	122.0	2.3253E+00	1.3979E+00			
2.0	1.5709E+00	1.5739E+00	64.0	1.2124E+00	9.7418E-01	124.0	2.7733E+00	1.4980E+00			
4.0	1.5683E+00	1.5703E+00	66.0	1.3272E+00	9.9726E-01	126.0	3.2230E+00	1.6224E+00			
6.0	1.5374E+00	1.5642E+00	68.0	1.4372E+00	1.0253E+00	128.0	3.6623E+00	1.7733E+00			
8.0	1.5086E+00	1.5556E+00	70.0	1.5372E+00	1.0574E+00	130.0	4.0808E+00	1.9535E+00			
10.0	1.4723E+00	1.5446E+00	72.0	1.6221E+00	1.0926E+00	132.0	4.4711E+00	2.1658E+00			
12.0	1.4290E+00	1.5311E+00	74.0	1.6868E+00	1.1298E+00	134.0	4.8286E+00	2.4136E+00			
14.0	1.3793E+00	1.5150E+00	76.0	1.7268E+00	1.1675E+00	136.0	5.1528E+00	2.7003E+00			
16.0	1.3239E+00	1.4965E+00	78.0	1.7381E+00	1.2045E+00	138.0	5.4470E+00	3.0293E+00			
18.0	1.2636E+00	1.4755E+00	80.0	1.7182E+00	1.2393E+00	140.0	5.7181E+00	3.4043E+00			
20.0	1.1994E+00	1.4520E+00	82.0	1.6654E+00	1.2707E+00	142.0	5.9755E+00	3.8283E+00			
22.0	1.1321E+00	1.4262E+00	84.0	1.5800E+00	1.2973E+00	144.0	6.2350E+00	4.3038E+00			
24.0	1.0629E+00	1.3982E+00	86.0	1.4637E+00	1.3181E+00	146.0	6.5079E+00	4.8326E+00			
26.0	9.9277E-01	1.3680E+00	88.0	1.3204E+00	1.3325E+00	148.0	6.8099E+00	5.4147E+00			
28.0	9.2306E-01	1.3360E+00	90.0	1.1556E+00	1.3398E+00	150.0	7.1548E+00	6.0490E+00			
30.0	8.5508E-01	1.3023E+00	92.0	9.7666E-01	1.3401E+00	152.0	7.5540E+00	6.7319E+00			
32.0	7.9024E-01	1.2673E+00	94.0	7.9235E-01	1.3308E+00	154.0	8.0155E+00	7.4580E+00			
34.0	7.3004E-01	1.2314E+00	96.0	6.1276E-01	1.3208E+00	156.0	8.5428E+00	8.2195E+00			
36.0	6.7607E-01	1.1950E+00	98.0	4.4869E-01	1.3029E+00	158.0	9.1342E+00	9.0059E+00			
38.0	6.2996E-01	1.1588E+00	100.0	3.1119E-01	1.2813E+00	160.0	9.7822E+00	9.8050E+00			
40.0	5.9334E-01	1.1231E+00	102.0	2.1099E-01	1.2578E+00	162.0	1.0474E+01	1.0602E+01			
42.0	5.6781E-01	1.0888E+00	104.0	1.5785E-01	1.2343E+00	164.0	1.1192E+01	1.1381E+01			
44.0	5.5488E-01	1.0564E+00	106.0	1.6001E-01	1.2130E+00	166.0	1.1913E+01	1.2124E+01			
46.0	5.5588E-01	1.0266E+00	108.0	2.2360E-01	1.1963E+00	168.0	1.2613E+01	1.2815E+01			
48.0	5.7188E-01	1.0002E+00	110.0	3.5222E-01	1.1864E+00	170.0	1.3265E+01	1.3434E+01			
50.0	6.0359E-01	9.7780E-01	112.0	5.4657E-01	1.1857E+00	172.0	1.3842E+01	1.3967E+01			
52.0	6.5129E-01	9.6005E-01	114.0	8.0436E-01	1.1966E+00	174.0	1.4320E+01	1.4398E+01			
54.0	7.1472E-01	9.4752E-01	116.0	1.1203E+00	1.2212E+00	176.0	1.4678E+01	1.4715E+01			
56.0	7.9300E-01	9.4066E-01	118.0	1.4863E+00	1.2615E+00	178.0	1.4900E+01	1.4910E+01			
58.0	8.8455E-01	9.3982E-01	120.0	1.8920E+00	1.3198E+00	180.0	1.4975E+01	1.4975E+01			
60.0	9.8710E-01	9.4816E-01									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 3.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.2419E+00	1.2419E+00	62.0	7.2927E-01	9.4204E-01	122.0	1.6940E+00	1.3293E+00
2.0	1.2419E+00	1.2424E+00	64.0	8.2734E-01	9.3929E-01	124.0	2.1566E+00	1.3983E+00
4.0	1.2418E+00	1.2436E+00	66.0	9.4258E-01	9.4284E-01	126.0	2.6449E+00	1.4911E+00
6.0	1.2415E+00	1.2457E+00	68.0	1.0712E+00	9.5296E-01	128.0	3.1434E+00	1.6110E+00
8.0	1.2408E+00	1.2484E+00	70.0	1.2084E+00	9.6933E-01	130.0	3.6371E+00	1.7616E+00
10.0	1.2394E+00	1.2515E+00	72.0	1.3480E+00	9.9259E-01	132.0	4.1135E+00	1.9470E+00
12.0	1.2369E+00	1.2550E+00	74.0	1.4835E+00	1.0213E+00	134.0	4.5628E+00	2.1716E+00
14.0	1.2330E+00	1.2586E+00	76.0	1.6077E+00	1.0548E+00	136.0	4.9795E+00	2.4402E+00
16.0	1.2270E+00	1.2619E+00	78.0	1.7131E+00	1.0921E+00	138.0	5.3630E+00	2.7581E+00
18.0	1.2183E+00	1.2648E+00	80.0	1.7927E+00	1.1318E+00	140.0	5.7170E+00	3.1305E+00
20.0	1.2064E+00	1.2669E+00	82.0	1.8404E+00	1.1725E+00	142.0	6.0503E+00	3.5625E+00
22.0	1.1904E+00	1.2678E+00	84.0	1.8511E+00	1.2124E+00	144.0	6.3755E+00	4.0586E+00
24.0	1.1699E+00	1.2672E+00	86.0	1.8214E+00	1.2500E+00	146.0	6.7093E+00	4.6222E+00
26.0	1.1441E+00	1.2649E+00	88.0	1.7502E+00	1.2837E+00	148.0	7.0659E+00	5.2553E+00
28.0	1.1126E+00	1.2604E+00	90.0	1.6386E+00	1.3122E+00	150.0	7.4654E+00	5.9577E+00
30.0	1.0753E+00	1.2536E+00	92.0	1.4903E+00	1.3343E+00	152.0	7.9223E+00	6.7270E+00
32.0	1.0321E+00	1.2443E+00	94.0	1.3113E+00	1.3491E+00	154.0	8.4483E+00	7.5576E+00
34.0	9.8333E-01	1.2323E+00	96.0	1.1108E+00	1.3564E+00	156.0	9.0503E+00	8.4409E+00
36.0	9.2972E-01	1.2175E+00	98.0	8.9947E-01	1.3561E+00	158.0	9.7200E+00	9.3648E+00
38.0	8.7240E-01	1.2000E+00	100.0	6.9008E-01	1.3488E+00	160.0	1.0478E+01	1.0314E+01
40.0	8.1292E-01	1.1799E+00	102.0	4.9633E-01	1.3355E+00	162.0	1.1284E+01	1.1271E+01
42.0	7.5329E-01	1.1575E+00	104.0	3.3242E-01	1.3176E+00	164.0	1.2126E+01	1.2314E+01
44.0	6.9589E-01	1.1332E+00	106.0	2.1192E-01	1.2971E+00	166.0	1.2979E+01	1.3122E+01
46.0	6.4341E-01	1.1074E+00	108.0	1.4720E-01	1.2759E+00	168.0	1.3812E+01	1.3970E+01
48.0	5.9881E-01	1.0808E+00	110.0	1.4843E-01	1.2557E+00	170.0	1.4592E+01	1.4736E+01
50.0	5.6510E-01	1.0542E+00	112.0	2.2291E-01	1.2418E+00	172.0	1.5287E+01	1.5398E+01
52.0	5.4526E-01	1.0283E+00	114.0	3.7449E-01	1.2342E+00	174.0	1.5864E+01	1.5936E+01
54.0	5.4199E-01	1.0041E+00	116.0	6.0317E-01	1.2364E+00	176.0	1.6297E+01	1.6332E+01
56.0	5.5766E-01	9.8249E-01	118.0	9.0500E-01	1.2511E+00	178.0	1.6566E+01	1.6575E+01
58.0	5.9361E-01	9.6436E-01	120.0	1.2723E+00	1.2812E+00	180.0	1.6657E+01	1.6657E+01
60.0	6.5092E-01	9.5061E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = 4.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	7.8533E-01	7.8533E-01	62.0	5.9454E-01	1.0045E+00	122.0	1.0709E+00	1.3187E+00	180.0	1.8432E+01	1.8432E+01
2.0	7.8691E-01	7.8691E-01	64.0	6.1777E-01	9.8741E-01	124.0	1.4979E+00	1.3580E+00			
4.0	7.9962E-01	7.9131E-01	66.0	6.6842E-01	9.7401E-01	126.0	1.9713E+00	1.4187E+00			
6.0	8.1728E-01	7.9873E-01	68.0	7.4633E-01	9.6539E-01	128.0	2.4905E+00	1.5049E+00			
8.0	8.4161E-01	8.0900E-01	70.0	8.4967E-01	9.6254E-01	130.0	3.0378E+00	1.6210E+00			
10.0	8.7219E-01	8.2202E-01	72.0	9.7491E-01	9.6618E-01	132.0	3.5813E+00	1.7723E+00			
12.0	9.0840E-01	8.3761E-01	74.0	1.1168E+00	9.7679E-01	134.0	4.1113E+00	1.9643E+00			
14.0	9.4945E-01	8.5559E-01	76.0	1.2687E+00	9.9449E-01	136.0	4.6196E+00	2.2037E+00			
16.0	9.9432E-01	8.7571E-01	78.0	1.4225E+00	1.0190E+00	138.0	5.0911E+00	2.4975E+00			
18.0	1.0417E+00	8.9767E-01	80.0	1.5693E+00	1.0498E+00	140.0	5.5431E+00	2.8531E+00			
20.0	1.0903E+00	9.2111E-01	82.0	1.6998E+00	1.0858E+00	142.0	5.9739E+00	3.2781E+00			
22.0	1.1381E+00	9.4533E-01	84.0	1.8048E+00	1.1258E+00	144.0	6.3870E+00	3.7795E+00			
24.0	1.1835E+00	9.7079E-01	86.0	1.8759E+00	1.1681E+00	146.0	6.8006E+00	4.3635E+00			
26.0	1.2243E+00	9.9606E-01	88.0	1.9061E+00	1.2110E+00	148.0	7.2343E+00	5.0344E+00			
28.0	1.2585E+00	1.0209E+00	90.0	1.8903E+00	1.2525E+00	150.0	7.7075E+00	5.7944E+00			
30.0	1.2842E+00	1.0448E+00	92.0	1.8262E+00	1.2910E+00	152.0	8.2310E+00	6.6424E+00			
32.0	1.2993E+00	1.0670E+00	94.0	1.7144E+00	1.3245E+00	154.0	8.8446E+00	7.5737E+00			
34.0	1.3024E+00	1.0871E+00	96.0	1.5586E+00	1.3518E+00	156.0	9.5316E+00	8.5794E+00			
36.0	1.2923E+00	1.1044E+00	98.0	1.3662E+00	1.3718E+00	158.0	1.0313E+01	9.6461E+00			
38.0	1.2683E+00	1.1185E+00	100.0	1.1474E+00	1.3838E+00	160.0	1.1174E+01	1.0756E+01			
40.0	1.2305E+00	1.1288E+00	102.0	9.1539E-01	1.3878E+00	162.0	1.2105E+01	1.1886E+01			
42.0	1.1795E+00	1.1351E+00	104.0	6.8548E-01	1.3842E+00	164.0	1.3013E+01	1.3012E+01			
44.0	1.1168E+00	1.1370E+00	106.0	4.7426E-01	1.3741E+00	166.0	1.4079E+01	1.4104E+01			
46.0	1.0447E+00	1.1345E+00	108.0	2.9867E-01	1.3590E+00	168.0	1.5057E+01	1.5133E+01			
48.0	9.6620E-01	1.1277E+00	110.0	1.7488E-01	1.3409E+00	170.0	1.5977E+01	1.6067E+01			
50.0	8.8519E-01	1.1169E+00	112.0	1.1716E-01	1.3222E+00	172.0	1.6800E+01	1.6879E+01			
52.0	8.0572E-01	1.1024E+00	114.0	1.3684E-01	1.3055E+00	174.0	1.7486E+01	1.7540E+01			
54.0	7.3251E-01	1.0849E+00	116.0	2.4141E-01	1.2937E+00	176.0	1.8002E+01	1.8030E+01			
56.0	6.7034E-01	1.0654E+00	118.0	4.3392E-01	1.2899E+00	178.0	1.8323E+01	1.8331E+01			
58.0	6.2390E-01	1.0447E+00	120.0	7.1256E-01	1.2971E+00						
60.0	5.9744E-01	1.0240E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = 4.2

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	6.4223E-01	6.4223E-01	62.0	6.8705E-01	1.0946E+00	122.0	5.4907E-01	1.3431E+00	180.0	2.0182E+01	2.0182E+01
2.0	6.4515E-01	6.4313E-01	64.0	6.2313E-01	1.0750E+00	124.0	8.9543E-01	1.3583E+00	182.0	2.0182E+01	2.0182E+01
4.0	6.5399E-01	6.4506E-01	66.0	5.8354E-01	1.0546E+00	126.0	1.3260E+00	1.3907E+00	184.0	2.0182E+01	2.0182E+01
6.0	6.6891E-01	6.5036E-01	68.0	5.7254E-01	1.0350E+00	128.0	1.8262E+00	1.4448E+00	186.0	2.0182E+01	2.0182E+01
8.0	6.9017E-01	6.5701E-01	70.0	5.9307E-01	1.0176E+00	130.0	2.3781E+00	1.5258E+00	188.0	2.0182E+01	2.0182E+01
10.0	7.1805E-01	6.6503E-01	72.0	6.4638E-01	1.0039E+00	132.0	2.9621E+00	1.6397E+00	190.0	2.0182E+01	2.0182E+01
12.0	7.5278E-01	6.7642E-01	74.0	7.3179E-01	9.9344E-01	134.0	3.5591E+00	1.7934E+00	192.0	2.0182E+01	2.0182E+01
14.0	7.9450E-01	6.8951E-01	76.0	8.4651E-01	9.9324E-01	136.0	4.1523E+00	1.9948E+00	194.0	2.0182E+01	2.0182E+01
16.0	8.4312E-01	7.0500E-01	78.0	9.8588E-01	9.9822E-01	138.0	4.7291E+00	2.2531E+00	196.0	2.0182E+01	2.0182E+01
18.0	8.9830E-01	7.2396E-01	80.0	1.1420E+00	1.0109E+00	140.0	5.2826E+00	2.5779E+00	198.0	2.0182E+01	2.0182E+01
20.0	9.5935E-01	7.4343E-01	82.0	1.3059E+00	1.0312E+00	142.0	5.8124E+00	2.9798E+00	200.0	2.0182E+01	2.0182E+01
22.0	1.0252E+00	7.6638E-01	84.0	1.4700E+00	1.0589E+00	144.0	6.3251E+00	3.4684E+00	202.0	2.0182E+01	2.0182E+01
24.0	1.0944E+00	7.9172E-01	86.0	1.6204E+00	1.0931E+00	146.0	6.8334E+00	4.0538E+00	204.0	2.0182E+01	2.0182E+01
26.0	1.1651E+00	8.1925E-01	88.0	1.7466E+00	1.1324E+00	148.0	7.3552E+00	4.7435E+00	206.0	2.0182E+01	2.0182E+01
28.0	1.2350E+00	8.4870E-01	90.0	1.8383E+00	1.1752E+00	150.0	7.9115E+00	5.5428E+00	208.0	2.0182E+01	2.0182E+01
30.0	1.3017E+00	8.7969E-01	92.0	1.8863E+00	1.2196E+00	152.0	8.5237E+00	6.4533E+00	210.0	2.0182E+01	2.0182E+01
32.0	1.3623E+00	9.1175E-01	94.0	1.8838E+00	1.2634E+00	154.0	9.2115E+00	7.4720E+00	212.0	2.0182E+01	2.0182E+01
34.0	1.4140E+00	9.4430E-01	96.0	1.8272E+00	1.3046E+00	156.0	9.9893E+00	8.5907E+00	214.0	2.0182E+01	2.0182E+01
36.0	1.4541E+00	9.7669E-01	98.0	1.7164E+00	1.3412E+00	158.0	1.0864E+01	9.7950E+00	216.0	2.0182E+01	2.0182E+01
38.0	1.4802E+00	1.0082E+00	100.0	1.5554E+00	1.3716E+00	160.0	1.1835E+01	1.1065E+01	218.0	2.0182E+01	2.0182E+01
40.0	1.4899E+00	1.0381E+00	102.0	1.3524E+00	1.3945E+00	162.0	1.2837E+01	1.2374E+01	220.0	2.0182E+01	2.0182E+01
42.0	1.4818E+00	1.0655E+00	104.0	1.1196E+00	1.4092E+00	164.0	1.4000E+01	1.3691E+01	222.0	2.0182E+01	2.0182E+01
44.0	1.4550E+00	1.0897E+00	106.0	8.7252E-01	1.4156E+00	166.0	1.5138E+01	1.4980E+01	224.0	2.0182E+01	2.0182E+01
46.0	1.4096E+00	1.1100E+00	108.0	6.2970E-01	1.4143E+00	168.0	1.6262E+01	1.6204E+01	226.0	2.0182E+01	2.0182E+01
48.0	1.3463E+00	1.1257E+00	110.0	4.1060E-01	1.4062E+00	170.0	1.7325E+01	1.7323E+01	228.0	2.0182E+01	2.0182E+01
50.0	1.2673E+00	1.1364E+00	112.0	2.3523E-01	1.3932E+00	172.0	1.8278E+01	1.8299E+01	230.0	2.0182E+01	2.0182E+01
52.0	1.1755E+00	1.1418E+00	114.0	1.2229E-01	1.3774E+00	174.0	1.9077E+01	1.9099E+01	232.0	2.0182E+01	2.0182E+01
54.0	1.0747E+00	1.1418E+00	116.0	8.7761E-02	1.3614E+00	176.0	1.9805E+01	1.9893E+01	234.0	2.0182E+01	2.0182E+01
56.0	9.6984E-01	1.1366E+00	118.0	1.4366E-01	1.3482E+00	178.0	2.0055E+01	2.0060E+01	236.0	2.0182E+01	2.0182E+01
58.0	8.6633E-01	1.1205E+00	120.0	2.9698E-01	1.3410E+00	180.0	2.0182E+01	2.0182E+01	238.0	2.0182E+01	2.0182E+01
60.0	7.7006E-01	1.1122E+00							240.0	2.0182E+01	2.0182E+01

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = 4.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.0629E-01	9.0629E-01	62.0	9.2709E-01	1.1502E+00	122.0	2.0337E-01	1.3867E+00
2.0	9.0470E-01	9.0543E-01	64.0	8.1518E-01	1.1401E+00	124.0	4.3290E-01	1.3858E+00
4.0	9.0017E-01	9.0291E-01	66.0	7.1123E-01	1.1254E+00	126.0	7.7312E-01	1.3968E+00
6.0	8.9333E-01	8.9838E-01	68.0	6.2238E-01	1.1073E+00	128.0	1.2148E+00	1.4239E+00
8.0	8.8521E-01	8.9357E-01	70.0	5.5558E-01	1.0870E+00	130.0	1.7428E+00	1.4732E+00
10.0	8.7711E-01	8.8730E-01	72.0	5.1711E-01	1.0661E+00	132.0	2.3372E+00	1.5510E+00
12.0	8.7058E-01	8.8048E-01	74.0	5.1201E-01	1.0464E+00	134.0	2.9760E+00	1.6652E+00
14.0	8.6725E-01	8.7355E-01	76.0	5.4360E-01	1.0298E+00	136.0	3.6372E+00	1.8249E+00
16.0	8.6873E-01	8.6701E-01	78.0	6.1301E-01	1.0173E+00	138.0	4.3015E+00	2.0410E+00
18.0	8.7650E-01	8.6140E-01	80.0	7.1879E-01	1.0112E+00	140.0	4.9547E+00	2.3256E+00
20.0	8.9177E-01	8.5725E-01	82.0	8.5676E-01	1.0124E+00	142.0	5.5892E+00	2.6918E+00
22.0	9.1538E-01	8.5506E-01	84.0	1.0199E+00	1.0217E+00	144.0	6.2057E+00	3.1534E+00
24.0	9.4771E-01	8.5531E-01	86.0	1.1987E+00	1.0395E+00	146.0	6.8127E+00	3.7240E+00
26.0	9.8861E-01	8.5841E-01	88.0	1.3814E+00	1.0655E+00	148.0	7.4261E+00	4.4153E+00
28.0	1.0374E+00	8.6408E-01	90.0	1.5547E+00	1.0989E+00	150.0	8.0671E+00	5.2370E+00
30.0	1.0927E+00	8.7433E-01	92.0	1.7051E+00	1.1384E+00	152.0	8.7598E+00	6.1942E+00
32.0	1.1527E+00	8.8745E-01	94.0	1.8190E+00	1.1822E+00	154.0	9.5278E+00	7.2889E+00
34.0	1.2151E+00	9.0396E-01	96.0	1.8850E+00	1.2282E+00	156.0	1.0390E+01	8.5085E+00
36.0	1.2771E+00	9.2366E-01	98.0	1.8939E+00	1.2742E+00	158.0	1.1350E+01	9.8448E+00
38.0	1.3355E+00	9.4615E-01	100.0	1.8409E+00	1.3177E+00	160.0	1.2437E+01	1.1274E+01
40.0	1.3871E+00	9.7089E-01	102.0	1.7253E+00	1.3566E+00	162.0	1.3612E+01	1.2768E+01
42.0	1.4286E+00	9.9720E-01	104.0	1.5519E+00	1.3891E+00	164.0	1.4862E+01	1.4283E+01
44.0	1.4569E+00	1.0242E+00	106.0	1.3310E+00	1.4140E+00	166.0	1.6149E+01	1.5783E+01
46.0	1.4693E+00	1.0511E+00	108.0	1.0776E+00	1.4304E+00	168.0	1.7429E+01	1.7218E+01
48.0	1.4635E+00	1.0768E+00	110.0	8.1128E-01	1.4383E+00	170.0	1.8646E+01	1.8539E+01
50.0	1.4382E+00	1.1003E+00	112.0	5.5445E-01	1.4384E+00	172.0	1.9744E+01	1.9698E+01
52.0	1.3927E+00	1.1206E+00	114.0	3.3118E-01	1.4320E+00	174.0	2.0667E+01	2.0653E+01
54.0	1.3278E+00	1.1369E+00	116.0	1.6518E-01	1.4210E+00	176.0	2.1366E+01	2.1384E+01
56.0	1.2452E+00	1.1484E+00	118.0	7.7894E-02	1.4078E+00	178.0	2.1802E+01	2.1802E+01
58.0	1.1479E+00	1.1546E+00	120.0	8.6706E-02	1.3953E+00	180.0	2.1951E+01	2.1951E+01
60.0	1.0401E+00	1.1552E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 4.6

NORMALIZED CROSS SECTION E-PLANE			NORMALIZED CROSS SECTION H-PLANE			NORMALIZED CROSS SECTION E-PLANE			NORMALIZED CROSS SECTION H-PLANE		
ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE
0.0	1.2844E+00	1.2844E+00	62.0	1.2090E+00	1.1413E+00	122.0	6.0361E-02	1.4434E+00	1.4434E+00	1.4434E+00	1.4434E+00
2.0	1.2787E+00	1.2823E+00	64.0	1.1140E+00	1.1475E+00	124.0	1.4771E-01	1.4350E+00	1.4350E+00	1.4350E+00	1.4350E+00
4.0	1.2620E+00	1.2760E+00	66.0	1.0046E+00	1.1381E+00	126.0	3.6335E-01	1.4324E+00	1.4324E+00	1.4324E+00	1.4324E+00
6.0	1.2350E+00	1.2657E+00	68.0	8.8749E-01	1.1300E+00	128.0	7.0671E-01	1.4401E+00	1.4401E+00	1.4401E+00	1.4401E+00
8.0	1.1991E+00	1.2516E+00	70.0	7.7037E-01	1.1325E+00	130.0	1.1691E+00	1.4636E+00	1.4636E+00	1.4636E+00	1.4636E+00
10.0	1.1558E+00	1.2341E+00	72.0	6.6212E-01	1.1176E+00	132.0	1.7337E+00	1.5096E+00	1.5096E+00	1.5096E+00	1.5096E+00
12.0	1.1073E+00	1.2134E+00	74.0	5.7196E-01	1.0995E+00	134.0	2.3791E+00	1.5866E+00	1.5866E+00	1.5866E+00	1.5866E+00
14.0	1.0559E+00	1.1902E+00	76.0	5.0883E-01	1.0796E+00	136.0	3.0772E+00	1.7043E+00	1.7043E+00	1.7043E+00	1.7043E+00
16.0	1.0040E+00	1.1643E+00	78.0	4.8061E-01	1.0598E+00	138.0	3.8059E+00	1.8754E+00	1.8754E+00	1.8754E+00	1.8754E+00
18.0	9.5422E-01	1.1383E+00	80.0	4.9329E-01	1.0422E+00	140.0	4.5425E+00	2.1141E+00	2.1141E+00	2.1141E+00	2.1141E+00
20.0	9.2896E-01	1.1109E+00	82.0	5.5022E-01	1.0286E+00	142.0	5.2719E+00	2.4366E+00	2.4366E+00	2.4366E+00	2.4366E+00
22.0	8.7056E-01	1.0835E+00	84.0	6.5151E-01	1.0210E+00	144.0	5.9875E+00	2.8605E+00	2.8605E+00	2.8605E+00	2.8605E+00
24.0	8.4108E-01	1.0569E+00	86.0	7.9357E-01	1.0208E+00	146.0	6.6922E+00	3.4036E+00	3.4036E+00	3.4036E+00	3.4036E+00
26.0	8.2265E-01	1.0317E+00	88.0	9.6898E-01	1.0292E+00	148.0	7.3986E+00	4.0832E+00	4.0832E+00	4.0832E+00	4.0832E+00
28.0	8.1539E-01	1.0086E+00	90.0	1.1667E+00	1.0466E+00	150.0	8.1274E+00	4.9137E+00	4.9137E+00	4.9137E+00	4.9137E+00
30.0	8.2128E-01	9.8891E-01	92.0	1.3726E+00	1.0729E+00	152.0	8.9045E+00	5.9056E+00	5.9056E+00	5.9056E+00	5.9056E+00
32.0	8.4020E-01	9.7257E-01	94.0	1.5704E+00	1.1075E+00	154.0	9.7576E+00	7.0629E+00	7.0629E+00	7.0629E+00	7.0629E+00
34.0	8.7177E-01	9.6039E-01	96.0	1.7428E+00	1.1487E+00	156.0	1.0711E+01	8.3819E+00	8.3819E+00	8.3819E+00	8.3819E+00
36.0	9.1503E-01	9.5278E-01	98.0	1.8731E+00	1.1948E+00	158.0	1.1783E+01	9.8498E+00	9.8498E+00	9.8498E+00	9.8498E+00
38.0	9.6830E-01	9.5003E-01	100.0	1.9468E+00	1.2434E+00	160.0	1.2980E+01	1.1443E+01	1.1443E+01	1.1443E+01	1.1443E+01
40.0	1.0293E+00	9.5233E-01	102.0	1.9530E+00	1.2919E+00	162.0	1.4293E+01	1.3129E+01	1.3129E+01	1.3129E+01	1.3129E+01
42.0	1.0951E+00	9.5930E-01	104.0	1.8862E+00	1.3379E+00	164.0	1.5679E+01	1.4883E+01	1.4883E+01	1.4883E+01	1.4883E+01
44.0	1.1622E+00	9.7094E-01	106.0	1.7468E+00	1.3790E+00	166.0	1.7160E+01	1.6594E+01	1.6594E+01	1.6594E+01	1.6594E+01
46.0	1.2268E+00	9.8663E-01	108.0	1.5423E+00	1.4133E+00	168.0	1.8621E+01	1.8265E+01	1.8265E+01	1.8265E+01	1.8265E+01
48.0	1.2848E+00	1.0057E+00	110.0	1.2869E+00	1.4396E+00	170.0	2.0020E+01	1.9815E+01	1.9815E+01	1.9815E+01	1.9815E+01
50.0	1.3318E+00	1.0271E+00	112.0	1.0011E+00	1.4572E+00	172.0	2.1289E+01	2.1183E+01	2.1183E+01	2.1183E+01	2.1183E+01
52.0	1.3638E+00	1.0498E+00	114.0	7.1028E-01	1.4663E+00	174.0	2.2361E+01	2.2313E+01	2.2313E+01	2.2313E+01	2.2313E+01
54.0	1.3774E+00	1.0728E+00	116.0	4.4278E-01	1.4676E+00	176.0	2.3176E+01	2.3158E+01	2.3158E+01	2.3158E+01	2.3158E+01
56.0	1.3697E+00	1.0945E+00	118.0	2.2777E-01	1.4626E+00	178.0	2.3685E+01	2.3681E+01	2.3681E+01	2.3681E+01	2.3681E+01
58.0	1.3390E+00	1.1140E+00	120.0	9.2598E-02	1.4537E+00	180.0	2.3858E+01	2.3858E+01	2.3858E+01	2.3858E+01	2.3858E+01
60.0	1.2851E+00	1.1299E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 4.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.4031E+00	1.4031E+00	62.0	1.4032E+00	1.0845E+00	122.0	1.0982E-01	1.5043E+00	122.0	1.0982E-01	1.5043E+00
2.0	1.3980E+00	1.4016E+00	64.0	1.3773E+00	1.1050E+00	124.0	4.5874E-02	1.4973E+00	124.0	4.5874E-02	1.4973E+00
4.0	1.3827E+00	1.3969E+00	66.0	1.3211E+00	1.1219E+00	126.0	1.1314E-01	1.4901E+00	126.0	1.1314E-01	1.4901E+00
6.0	1.3576E+00	1.3809E+00	68.0	1.2364E+00	1.1340E+00	128.0	3.2336E-01	1.4868E+00	128.0	3.2336E-01	1.4868E+00
8.0	1.3234E+00	1.3781E+00	70.0	1.1277E+00	1.1405E+00	130.0	6.7765E-01	1.4922E+00	130.0	6.7765E-01	1.4922E+00
10.0	1.2810E+00	1.3641E+00	72.0	1.0021E+00	1.1409E+00	132.0	1.1666E+00	1.5128E+00	132.0	1.1666E+00	1.5128E+00
12.0	1.2315E+00	1.3472E+00	74.0	8.6874E-01	1.1354E+00	134.0	1.7717E+00	1.5570E+00	134.0	1.7717E+00	1.5570E+00
14.0	1.1762E+00	1.3275E+00	76.0	7.3880E-01	1.1244E+00	136.0	2.4679E+00	1.6352E+00	136.0	2.4679E+00	1.6352E+00
16.0	1.1166E+00	1.3051E+00	78.0	6.2428E-01	1.1092E+00	138.0	3.2269E+00	1.7609E+00	138.0	3.2269E+00	1.7609E+00
18.0	1.0542E+00	1.2803E+00	80.0	5.3719E-01	1.0913E+00	140.0	4.0214E+00	1.9503E+00	140.0	4.0214E+00	1.9503E+00
20.0	9.9080E-01	1.2533E+00	82.0	4.8843E-01	1.0727E+00	142.0	4.8288E+00	2.2222E+00	142.0	4.8288E+00	2.2222E+00
22.0	9.2817E-01	1.2245E+00	84.0	4.8658E-01	1.0556E+00	144.0	5.6347E+00	2.5986E+00	144.0	5.6347E+00	2.5986E+00
24.0	8.6826E-01	1.1943E+00	86.0	5.3686E-01	1.0423E+00	146.0	6.4356E+00	3.1022E+00	146.0	6.4356E+00	3.1022E+00
26.0	8.1309E-01	1.1632E+00	88.0	6.4019E-01	1.0348E+00	148.0	7.2392E+00	3.7559E+00	148.0	7.2392E+00	3.7559E+00
28.0	7.6473E-01	1.1318E+00	90.0	7.9261E-01	1.0350E+00	150.0	8.0640E+00	4.5808E+00	150.0	8.0640E+00	4.5808E+00
30.0	7.2525E-01	1.1008E+00	92.0	9.8510E-01	1.0442E+00	152.0	8.9365E+00	5.5935E+00	152.0	8.9365E+00	5.5935E+00
32.0	6.9668E-01	1.0708E+00	94.0	1.2039E+00	1.0631E+00	154.0	9.8876E+00	6.8041E+00	154.0	9.8876E+00	6.8041E+00
34.0	6.8083E-01	1.0427E+00	96.0	1.4313E+00	1.0916E+00	156.0	1.0947E+01	8.2134E+00	156.0	1.0947E+01	8.2134E+00
36.0	6.7928E-01	1.0172E+00	98.0	1.6470E+00	1.1287E+00	158.0	1.2138E+01	9.8109E+00	158.0	1.2138E+01	9.8109E+00
38.0	6.9320E-01	9.9500E-01	100.0	1.8298E+00	1.1729E+00	160.0	1.3472E+01	1.1573E+01	160.0	1.3472E+01	1.1573E+01
40.0	7.2312E-01	9.7692E-01	102.0	1.9599E+00	1.2221E+00	162.0	1.4944E+01	1.3464E+01	162.0	1.4944E+01	1.3464E+01
42.0	7.6883E-01	9.6355E-01	104.0	2.0206E+00	1.2737E+00	164.0	1.6532E+01	1.5433E+01	164.0	1.6532E+01	1.5433E+01
44.0	8.2925E-01	9.5535E-01	106.0	2.0008E+00	1.3249E+00	166.0	1.8191E+01	1.7420E+01	166.0	1.8191E+01	1.7420E+01
46.0	9.0227E-01	9.5265E-01	108.0	1.8963E+00	1.3731E+00	168.0	1.9862E+01	1.9354E+01	168.0	1.9862E+01	1.9354E+01
48.0	9.8478E-01	9.5552E-01	110.0	1.7115E+00	1.4158E+00	170.0	2.1473E+01	2.1161E+01	170.0	2.1473E+01	2.1161E+01
50.0	1.0728E+00	9.6379E-01	112.0	1.4592E+00	1.4513E+00	172.0	2.2940E+01	2.2767E+01	172.0	2.2940E+01	2.2767E+01
52.0	1.1607E+00	9.7703E-01	114.0	1.1603E+00	1.4783E+00	174.0	2.4185E+01	2.4100E+01	174.0	2.4185E+01	2.4100E+01
54.0	1.2434E+00	9.9453E-01	116.0	8.4273E-01	1.4964E+00	176.0	2.5133E+01	2.5100E+01	176.0	2.5133E+01	2.5100E+01
56.0	1.3146E+00	1.0153E+00	118.0	5.3910E-01	1.5059E+00	178.0	2.5728E+01	2.5720E+01	178.0	2.5728E+01	2.5720E+01
58.0	1.3684E+00	1.0382E+00	120.0	2.8376E-01	1.5079E+00	180.0	2.5930E+01	2.5930E+01	180.0	2.5930E+01	2.5930E+01
60.0	1.3993E+00	1.0617E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BIS-ATIC SCATTERING FROM CONDUCTING SPHERE

KA= 5.0

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE		
ANGLE	H-PLANE	H-PLANE	ANGLE	H-PLANE	H-PLANE	ANGLE	H-PLANE	H-PLANE
0.0	1.1688E+00	1.1683E+00	62.0	1.3977E+00	1.0218E+00	122.0	3.2460E-01	1.5533E+00
2.0	1.1685E+00	1.1631E+00	64.0	1.4529E+00	1.0465E+00	124.0	1.2091E-01	1.5554E+00
4.0	1.1676E+00	1.1700E+00	66.0	1.4777E+00	1.0716E+00	126.0	3.3806E-02	1.5524E+00
6.0	1.1657E+00	1.1713E+00	68.0	1.4657E+00	1.0954E+00	128.0	8.8982E-02	1.5472E+00
8.0	1.1627E+00	1.1729E+00	70.0	1.4203E+00	1.1163E+00	130.0	3.0116E-01	1.5438E+00
10.0	1.1581E+00	1.1745E+00	72.0	1.3370E+00	1.1328E+00	132.0	6.7269E-01	1.5476E+00
12.0	1.1512E+00	1.1758E+00	74.0	1.2221E+00	1.1436E+00	134.0	1.1937E+00	1.5664E+00
14.0	1.1415E+00	1.1766E+00	76.0	1.0835E+00	1.1480E+00	136.0	1.8439E+00	1.6103E+00
16.0	1.1282E+00	1.1765E+00	78.0	9.3231E-01	1.1459E+00	138.0	2.5956E+00	1.6931E+00
18.0	1.1105E+00	1.1751E+00	80.0	7.8180E-01	1.1377E+00	140.0	3.4185E+00	1.8322E+00
20.0	1.0879E+00	1.1720E+00	82.0	6.4678E-01	1.1244E+00	142.0	4.2840E+00	2.0491E+00
22.0	1.0597E+00	1.1659E+00	84.0	5.4211E-01	1.1078E+00	144.0	5.1701E+00	2.3690E+00
24.0	1.0260E+00	1.1596E+00	86.0	4.8119E-01	1.0900E+00	146.0	6.0653E+00	2.8201E+00
26.0	9.8691E-01	1.1499E+00	88.0	4.7450E-01	1.0735E+00	148.0	6.9708E+00	3.4318E+00
28.0	9.4322E-01	1.1376E+00	90.0	5.2815E-01	1.0609E+00	150.0	7.9007E+00	4.2324E+00
30.0	8.9628E-01	1.1228E+00	92.0	6.4275E-01	1.0545E+00	152.0	8.8803E+00	5.2465E+00
32.0	8.4807E-01	1.1058E+00	94.0	8.1275E-01	1.0564E+00	154.0	9.9417E+00	6.4917E+00
34.0	8.0116E-01	1.0869E+00	96.0	1.0263E+00	1.0679E+00	156.0	1.1119E+01	7.9753E+00
36.0	7.5861E-01	1.0666E+00	98.0	1.2659E+00	1.0997E+00	158.0	1.2440E+01	9.6911E+00
38.0	7.2379E-01	1.0455E+00	100.0	1.5095E+00	1.1317E+00	160.0	1.3922E+01	1.1617E+01
40.0	7.0020E-01	1.0245E+00	102.0	1.7336E+00	1.1626E+00	162.0	1.5564E+01	1.3715E+01
42.0	6.9113E-01	1.0044E+00	104.0	1.9105E+00	1.2106E+00	164.0	1.7343E+01	1.5928E+01
44.0	6.9931E-01	9.8633E-01	106.0	2.0212E+00	1.2633E+00	166.0	1.9214E+01	1.8188E+01
46.0	7.2666E-01	9.7116E-01	108.0	2.0477E+00	1.3177E+00	168.0	2.1109E+01	2.0405E+01
48.0	7.7385E-01	9.5982E-01	110.0	1.9810E+00	1.3711E+00	170.0	2.2945E+01	2.2494E+01
50.0	8.4014E-01	9.5310E-01	112.0	1.8214E+00	1.4206E+00	172.0	2.4826E+01	2.4363E+01
52.0	9.2313E-01	9.5159E-01	114.0	1.5795E+00	1.4840E+00	174.0	2.6058E+01	2.5922E+01
54.0	1.0188E+00	9.5562E-01	116.0	1.2762E+00	1.4995E+00	176.0	2.7152E+01	2.7098E+01
56.0	1.1214E+00	9.6519E-01	118.0	9.4124E-01	1.5262E+00	178.0	2.7839E+01	2.7828E+01
58.0	1.2240E+00	9.7994E-01	120.0	6.1093E-01	1.5440E+00	180.0	2.8073E+01	2.8073E+01
60.0	1.3188E+00	9.9916E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = 5.2

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	8.335E-01	8.335E-01	62.0	1.182E+00	9.862E-01	122.0	1.577E+00	1.577E+00	180.0	3.021E+01	3.021E+01
2.0	8.377E-01	8.352E-01	64.0	1.287E+00	1.002E+00	124.0	3.569E-01	1.594E+00	182.0	2.994E+01	2.994E+01
4.0	8.503E-01	8.403E-01	66.0	1.380E+00	1.023E+00	126.0	1.284E-01	1.602E+00	184.0	2.971E+01	2.971E+01
6.0	8.709E-01	8.485E-01	68.0	1.449E+00	1.048E+00	128.0	2.435E-02	1.603E+00	186.0	2.948E+01	2.948E+01
8.0	8.987E-01	8.601E-01	70.0	1.487E+00	1.073E+00	130.0	7.527E-02	1.609E+00	188.0	2.925E+01	2.925E+01
10.0	9.327E-01	8.743E-01	72.0	1.486E+00	1.098E+00	132.0	2.989E-01	1.597E+00	190.0	2.902E+01	2.902E+01
12.0	9.717E-01	8.915E-01	74.0	1.449E+00	1.121E+00	134.0	6.989E-01	1.600E+00	192.0	2.879E+01	2.879E+01
14.0	1.013E+00	9.097E-01	76.0	1.361E+00	1.139E+00	136.0	1.264E+00	1.618E+00	194.0	2.856E+01	2.856E+01
16.0	1.056E+00	9.303E-01	78.0	1.241E+00	1.152E+00	138.0	1.972E+00	1.663E+00	196.0	2.833E+01	2.833E+01
18.0	1.098E+00	9.517E-01	80.0	1.092E+00	1.158E+00	140.0	2.794E+00	1.756E+00	198.0	2.810E+01	2.810E+01
20.0	1.136E+00	9.734E-01	82.0	9.288E-01	1.158E+00	142.0	3.695E+00	1.917E+00	200.0	2.787E+01	2.787E+01
22.0	1.168E+00	9.948E-01	84.0	7.647E-01	1.150E+00	144.0	4.648E+00	2.175E+00	202.0	2.764E+01	2.764E+01
24.0	1.190E+00	1.015E+00	86.0	6.180E-01	1.137E+00	146.0	5.632E+00	2.560E+00	204.0	2.741E+01	2.741E+01
26.0	1.201E+00	1.033E+00	88.0	5.061E-01	1.121E+00	148.0	6.639E+00	3.118E+00	206.0	2.718E+01	2.718E+01
28.0	1.199E+00	1.049E+00	90.0	4.456E-01	1.104E+00	150.0	7.678E+00	3.879E+00	208.0	2.695E+01	2.695E+01
30.0	1.183E+00	1.062E+00	92.0	4.451E-01	1.088E+00	152.0	8.769E+00	4.869E+00	210.0	2.672E+01	2.672E+01
32.0	1.153E+00	1.071E+00	94.0	5.140E-01	1.077E+00	154.0	9.945E+00	6.126E+00	212.0	2.649E+01	2.649E+01
34.0	1.110E+00	1.077E+00	96.0	6.507E-01	1.073E+00	156.0	1.124E+01	7.662E+00	214.0	2.626E+01	2.626E+01
36.0	1.059E+00	1.078E+00	98.0	8.468E-01	1.078E+00	158.0	1.269E+01	9.478E+00	216.0	2.603E+01	2.603E+01
38.0	9.959E-01	1.074E+00	100.0	1.086E+00	1.093E+00	160.0	1.432E+01	1.155E+01	218.0	2.580E+01	2.580E+01
40.0	9.319E-01	1.067E+00	102.0	1.348E+00	1.120E+00	162.0	1.613E+01	1.382E+01	220.0	2.557E+01	2.557E+01
42.0	8.698E-01	1.056E+00	104.0	1.603E+00	1.157E+00	164.0	1.810E+01	1.631E+01	222.0	2.534E+01	2.534E+01
44.0	8.151E-01	1.043E+00	106.0	1.824E+00	1.203E+00	166.0	2.019E+01	1.884E+01	224.0	2.511E+01	2.511E+01
46.0	7.730E-01	1.028E+00	108.0	1.984E+00	1.255E+00	168.0	2.231E+01	2.136E+01	226.0	2.488E+01	2.488E+01
48.0	7.486E-01	1.012E+00	110.0	2.081E+00	1.311E+00	170.0	2.438E+01	2.376E+01	228.0	2.465E+01	2.465E+01
50.0	7.457E-01	9.974E-01	112.0	2.032E+00	1.369E+00	172.0	2.628E+01	2.598E+01	230.0	2.442E+01	2.442E+01
52.0	7.669E-01	9.845E-01	114.0	1.901E+00	1.424E+00	174.0	2.791E+01	2.771E+01	232.0	2.419E+01	2.419E+01
54.0	8.129E-01	9.748E-01	116.0	1.674E+00	1.474E+00	176.0	2.916E+01	2.907E+01	234.0	2.396E+01	2.396E+01
56.0	8.822E-01	9.695E-01	118.0	1.371E+00	1.517E+00	178.0	2.994E+01	2.992E+01	236.0	2.373E+01	2.373E+01
58.0	9.711E-01	9.684E-01	120.0	1.023E+00	1.552E+00	180.0	3.021E+01	3.021E+01	238.0	2.350E+01	2.350E+01
60.0	1.073E+00	9.750E-01									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

$K_A = 5.4$

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 5.6

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE		
ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE
0.0	62.0	122.0	6.7732E-01	1.0110E+00	1.5361E+00	1.5533E+00	1.5533E+00	1.5533E+00
2.0	64.0	124.0	7.2318E-01	9.9951E-01	1.484E+00	1.6061E+00	1.6061E+00	1.6061E+00
4.0	66.0	126.0	8.0060E-01	9.9277E-01	7.4332E-01	1.6479E+00	1.6479E+00	1.6479E+00
6.0	68.0	128.0	9.0521E-01	9.9198E-01	3.7993E-01	1.6793E+00	1.6793E+00	1.6793E+00
8.0	70.0	130.0	1.0285E+00	9.9781E-01	1.1752E-01	1.6993E+00	1.6993E+00	1.6993E+00
10.0	72.0	132.0	1.1591E+00	1.0103E+00	9.5124E-03	1.7082E+00	1.7082E+00	1.7082E+00
12.0	74.0	134.0	1.2832E+00	1.0287E+00	9.4814E-02	1.7079E+00	1.7079E+00	1.7079E+00
14.0	76.0	136.0	1.3853E+00	1.0518E+00	3.9487E-01	1.7033E+00	1.7033E+00	1.7033E+00
16.0	78.0	138.0	1.4546E+00	1.0777E+00	9.1043E-01	1.7034E+00	1.7034E+00	1.7034E+00
18.0	80.0	140.0	1.4769E+00	1.1040E+00	1.6240E+00	1.7233E+00	1.7233E+00	1.7233E+00
20.0	82.0	142.0	1.4461E+00	1.1283E+00	2.5091E+00	1.7857E+00	1.7857E+00	1.7857E+00
22.0	84.0	144.0	1.3609E+00	1.1483E+00	3.5227E+00	1.9218E+00	1.9218E+00	1.9218E+00
24.0	86.0	146.0	1.2267E+00	1.1622E+00	4.6309E+00	2.1721E+00	2.1721E+00	2.1721E+00
26.0	88.0	148.0	1.0555E+00	1.1687E+00	5.8076E+00	2.5848E+00	2.5848E+00	2.5848E+00
28.0	90.0	150.0	8.6569E-01	1.1677E+00	7.0427E+00	3.2138E+00	3.2138E+00	3.2138E+00
30.0	92.0	152.0	6.8012E-01	1.1598E+00	8.3453E+00	4.1137E+00	4.1137E+00	4.1137E+00
32.0	94.0	154.0	5.2384E-01	1.1468E+00	9.7428E+00	5.3356E+00	5.3356E+00	5.3356E+00
34.0	96.0	156.0	4.2095E-01	1.1312E+00	1.1275E+01	6.9184E+00	6.9184E+00	6.9184E+00
36.0	98.0	158.0	3.9131E-01	1.1163E+00	1.2987E+01	8.0828E+00	8.0828E+00	8.0828E+00
38.0	100.0	160.0	4.4731E-01	1.1054E+00	1.4914E+01	1.1224E+01	1.1224E+01	1.1224E+01
40.0	102.0	162.0	5.9129E-01	1.1017E+00	1.7074E+01	1.3908E+01	1.3908E+01	1.3908E+01
42.0	104.0	164.0	8.1406E-01	1.1079E+00	1.9455E+01	1.6865E+01	1.6865E+01	1.6865E+01
44.0	106.0	166.0	1.0948E+00	1.1256E+00	2.2007E+01	1.9995E+01	1.9995E+01	1.9995E+01
46.0	108.0	168.0	1.4027E+00	1.1544E+00	2.4613E+01	2.3169E+01	2.3169E+01	2.3169E+01
48.0	110.0	170.0	1.7002E+00	1.1969E+00	2.7214E+01	2.6233E+01	2.6233E+01	2.6233E+01
50.0	112.0	172.0	1.9473E+00	1.2482E+00	2.9664E+01	2.9032E+01	2.9032E+01	2.9032E+01
52.0	114.0	174.0	2.1073E+00	1.3070E+00	3.1753E+01	3.1406E+01	3.1406E+01	3.1406E+01
54.0	116.0	176.0	2.1521E+00	1.3703E+00	3.3366E+01	3.3216E+01	3.3216E+01	3.3216E+01
56.0	118.0	178.0	2.0672E+00	1.4348E+00	3.4386E+01	3.4349E+01	3.4349E+01	3.4349E+01
58.0	120.0	180.0	1.8549E+00	1.4974E+00	3.4735E+01	3.4735E+01	3.4735E+01	3.4735E+01
60.0								

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = 5.8

ANGLE	CROSS SECTION		ANGLE	CROSS SECTION		ANGLE	CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.2057E+00	1.2057E+00	62.0	6.9568E-01	1.0450E+00	122.0	1.9064E+00	1.5184E+00
2.0	1.1996E+00	1.2034E+00	64.0	6.6121E-01	1.0295E+00	124.0	1.5702E+00	1.5838E+00
4.0	1.1818E+00	1.1967E+00	66.0	6.6156E-01	1.0150E+00	126.0	1.1533E+00	1.6429E+00
6.0	1.1534E+00	1.1858E+00	68.0	7.0065E-01	1.0032E+00	128.0	7.2950E-01	1.6930E+00
8.0	1.1166E+00	1.1711E+00	70.0	7.7831E-01	9.9608E-01	130.0	3.5107E-01	1.7316E+00
10.0	1.0739E+00	1.1531E+00	72.0	8.8969E-01	9.9503E-01	132.0	9.0232E-02	1.7569E+00
12.0	1.0284E+00	1.1324E+00	74.0	1.0252E+00	1.0009E+00	134.0	5.1304E+00	1.7682E+00
14.0	9.8320E-01	1.1099E+00	76.0	1.1711E+00	1.0139E+00	136.0	1.3723E-01	1.7672E+00
16.0	9.4163E-01	1.0864E+00	78.0	1.3105E+00	1.0333E+00	138.0	5.0647E-01	1.7600E+00
18.0	9.0688E-01	1.0628E+00	80.0	1.4257E+00	1.0576E+00	140.0	1.1101E+00	1.7585E+00
20.0	8.8098E-01	1.0400E+00	82.0	1.4995E+00	1.0848E+00	142.0	1.9255E+00	1.7822E+00
22.0	8.5658E-01	1.0190E+00	84.0	1.5188E+00	1.1123E+00	144.0	2.9170E+00	1.8651E+00
24.0	8.6484E-01	1.0005E+00	86.0	1.4757E+00	1.1374E+00	146.0	4.0448E+00	2.0464E+00
26.0	8.7628E-01	9.9549E-01	88.0	1.3701E+00	1.1575E+00	148.0	5.2751E+00	2.3805E+00
28.0	9.0054E-01	9.7446E-01	90.0	1.2104E+00	1.1709E+00	150.0	6.5887E+00	2.9295E+00
30.0	9.3635E-01	9.6789E-01	92.0	1.0137E+00	1.1763E+00	152.0	7.9871E+00	3.7603E+00
32.0	9.8149E-01	9.6601E-01	94.0	8.0406E-01	1.1740E+00	154.0	9.4931E+00	4.9376E+00
34.0	1.0328E+00	9.6879E-01	96.0	6.1012E-01	1.1650E+00	156.0	1.1147E+01	6.5157E+00
36.0	1.0866E+00	9.7594E-01	98.0	4.6172E-01	1.1518E+00	158.0	1.2937E+01	8.5298E+00
38.0	1.1382E+00	9.8689E-01	100.0	3.9554E-01	1.1374E+00	160.0	1.5087E+01	1.0987E+01
40.0	1.1829E+00	1.0008E+00	102.0	4.0085E-01	1.1253E+00	162.0	1.7442E+01	1.3857E+01
42.0	1.2160E+00	1.0166E+00	104.0	5.1587E-01	1.1193E+00	164.0	2.0053E+01	1.7071E+01
44.0	1.2332E+00	1.0332E+00	106.0	7.3526E-01	1.1224E+00	166.0	2.2873E+01	2.0520E+01
46.0	1.2310E+00	1.0490E+00	108.0	1.0094E+00	1.1369E+00	168.0	2.5806E+01	2.4556E+01
48.0	1.2075E+00	1.0630E+00	110.0	1.3356E+00	1.1640E+00	170.0	2.8718E+01	2.7504E+01
50.0	1.1624E+00	1.0737E+00	112.0	1.6620E+00	1.2037E+00	172.0	3.1444E+01	3.0875E+01
52.0	1.0977E+00	1.0803E+00	114.0	1.9423E+00	1.2546E+00	174.0	3.3807E+01	3.3381E+01
54.0	1.0176E+00	1.0822E+00	116.0	2.1330E+00	1.3145E+00	176.0	3.5639E+01	3.5453E+01
56.0	9.2854E-01	1.0791E+00	118.0	2.1998E+00	1.3806E+00	178.0	3.6799E+01	3.6753E+01
58.0	8.3879E-01	1.0712E+00	120.0	2.1239E+00	1.4496E+00	180.0	3.7197E+01	3.7197E+01
60.0	7.5789E-01	1.0594E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 6.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.3026E+00	1.3026E+00	62.0	9.0201E-01	1.0718E+00	122.0	2.1525E+00	1.4699E+00
2.0	1.2967E+00	1.3008E+00	64.0	8.0523E-01	1.0626E+00	124.0	1.9242E+00	1.5450E+00
4.0	1.2792E+00	1.2953E+00	66.0	7.2666E-01	1.0501E+00	126.0	1.5675E+00	1.6181E+00
6.0	1.2508E+00	1.2860E+00	68.0	6.7820E-01	1.0358E+00	128.0	1.1319E+00	1.6856E+00
8.0	1.2127E+00	1.2733E+00	70.0	6.5932E-01	1.0220E+00	130.0	6.8438E-01	1.7439E+00
10.0	1.1665E+00	1.2572E+00	72.0	7.0544E-01	1.0107E+00	132.0	3.0102E-01	1.7892E+00
12.0	1.1141E+00	1.2381E+00	74.0	7.8665E-01	1.0041E+00	134.0	5.6140E-02	1.8185E+00
14.0	1.0576E+00	1.2162E+00	76.0	9.0700E-01	1.0038E+00	136.0	1.2035E-02	1.8302E+00
16.0	9.9932E-01	1.1920E+00	78.0	1.0546E+00	1.0109E+00	138.0	2.1057E-01	1.8263E+00
18.0	9.4186E-01	1.1659E+00	80.0	1.2122E+00	1.0254E+00	140.0	6.6860E-01	1.8149E+00
20.0	8.8777E-01	1.1385E+00	82.0	1.3595E+00	1.0466E+00	142.0	1.3779E+00	1.8129E+00
22.0	8.3669E-01	1.1105E+00	84.0	1.4750E+00	1.0727E+00	144.0	2.3103E+00	1.8489E+00
24.0	8.0023E-01	1.0828E+00	86.0	1.5395E+00	1.1012E+00	146.0	3.4253E+00	1.9654E+00
26.0	7.7186E-01	1.0560E+00	88.0	1.5389E+00	1.1294E+00	148.0	4.6870E+00	2.2193E+00
28.0	7.5678E-01	1.0312E+00	90.0	1.4668E+00	1.1542E+00	150.0	6.0649E+00	2.6804E+00
30.0	7.5675E-01	1.0031E+00	92.0	1.3269E+00	1.1731E+00	152.0	7.5524E+00	3.4273E+00
32.0	7.7281E-01	9.9061E-01	94.0	1.1335E+00	1.1844E+00	154.0	9.1661E+00	4.5398E+00
34.0	8.0508E-01	9.7643E-01	96.0	9.1031E-01	1.1874E+00	156.0	1.0944E+01	6.0999E+00
36.0	8.5254E-01	9.6711E-01	98.0	6.8863E-01	1.1826E+00	158.0	1.2938E+01	8.1288E+00
38.0	9.1284E-01	9.6300E-01	100.0	5.0295E-01	1.1722E+00	160.0	1.5196E+01	1.0881E+01
40.0	9.8227E-01	9.6416E-01	102.0	3.8621E-01	1.1590E+00	162.0	1.7752E+01	1.3724E+01
42.0	1.0558E+00	9.7031E-01	104.0	3.6442E-01	1.1467E+00	164.0	2.0603E+01	1.7191E+01
44.0	1.1273E+00	9.8088E-01	106.0	4.5177E-01	1.1302E+00	166.0	2.3700E+01	2.0983E+01
46.0	1.1901E+00	9.9493E-01	108.0	6.4706E-01	1.1402E+00	168.0	2.6944E+01	2.4877E+01
48.0	1.2374E+00	1.0112E+00	110.0	9.3211E-01	1.1523E+00	170.0	3.0185E+01	2.8731E+01
50.0	1.2633E+00	1.0284E+00	112.0	1.2729E+00	1.1774E+00	172.0	3.3235E+01	3.2303E+01
52.0	1.2633E+00	1.0448E+00	114.0	1.6231E+00	1.2157E+00	174.0	3.5892E+01	3.5370E+01
54.0	1.2351E+00	1.0590E+00	116.0	1.9308E+00	1.2663E+00	176.0	3.7958E+01	3.7727E+01
56.0	1.1794E+00	1.0696E+00	118.0	2.1450E+00	1.3274E+00	178.0	3.9270E+01	3.9212E+01
58.0	1.1000E+00	1.0755E+00	120.0	2.2264E+00	1.3963E+00	180.0	3.9719E+01	3.9719E+01
60.0	1.0043E+00	1.0763E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 6.2

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.1279E+00	1.1279E+00	62.0	1.1496E+00	1.0788E+00	122.0	2.2540E+00	1.4153E+00
2.0	1.1273E+00	1.1281E+00	64.0	1.0421E+00	1.0816E+00	124.0	2.1746E+00	1.4939E+00
4.0	1.1254E+00	1.1285E+00	66.0	9.2543E-01	1.0787E+00	126.0	1.9277E+00	1.5757E+00
6.0	1.1220E+00	1.1291E+00	68.0	8.1397E-01	1.0706E+00	128.0	1.5433E+00	1.6569E+00
8.0	1.1166E+00	1.1296E+00	70.0	7.2296E-01	1.0586E+00	130.0	1.0822E+00	1.7331E+00
10.0	1.1086E+00	1.1297E+00	72.0	6.6657E-01	1.0446E+00	132.0	6.1835E-01	1.7993E+00
12.0	1.0973E+00	1.1290E+00	74.0	6.5582E-01	1.0310E+00	134.0	2.3853E-01	1.8503E+00
14.0	1.0819E+00	1.1272E+00	76.0	6.9657E-01	1.0201E+00	136.0	2.4202E-02	1.8813E+00
16.0	1.0619E+00	1.1239E+00	78.0	7.8802E-01	1.0144E+00	138.0	4.0838E-02	1.8905E+00
18.0	1.0366E+00	1.1186E+00	80.0	9.2199E-01	1.0156E+00	140.0	3.2912E-01	1.8808E+00
20.0	1.0061E+00	1.1113E+00	82.0	1.0831E+00	1.0246E+00	142.0	9.0075E-01	1.8643E+00
22.0	9.7058E-01	1.1016E+00	84.0	1.2504E+00	1.0414E+00	144.0	1.7408E+00	1.8655E+00
24.0	9.3211E-01	1.0896E+00	86.0	1.3993E+00	1.0649E+00	146.0	2.8152E+00	1.9251E+00
26.0	8.9183E-01	1.0755E+00	88.0	1.5055E+00	1.0928E+00	148.0	4.0827E+00	2.1014E+00
28.0	8.5284E-01	1.0596E+00	90.0	1.5485E+00	1.1224E+00	150.0	5.5084E+00	2.4704E+00
30.0	8.1358E-01	1.0425E+00	92.0	1.5153E+00	1.1503E+00	152.0	7.0751E+00	3.1216E+00
32.0	7.9297E-01	1.0239E+00	94.0	1.4036E+00	1.1735E+00	154.0	8.7913E+00	4.1506E+00
34.0	7.7953E-01	1.0077E+00	96.0	1.2234E+00	1.1896E+00	156.0	1.0691E+01	5.6485E+00
36.0	7.8185E-01	9.9200E-01	98.0	9.9684E-01	1.1973E+00	158.0	1.2825E+01	7.6878E+00
38.0	8.0216E-01	9.7875E-01	100.0	7.5658E-01	1.1966E+00	160.0	1.5249E+01	1.0308E+01
40.0	8.4126E-01	9.6893E-01	102.0	5.4114E-01	1.1891E+00	162.0	1.8004E+01	1.3504E+01
42.0	8.9806E-01	9.6335E-01	104.0	3.8951E-01	1.1776E+00	164.0	2.1094E+01	1.7210E+01
44.0	9.6938E-01	9.6257E-01	106.0	3.3463E-01	1.1657E+00	166.0	2.4472E+01	2.1305E+01
46.0	1.0499E+00	9.6678E-01	108.0	3.9709E-01	1.1577E+00	168.0	2.8034E+01	2.5806E+01
48.0	1.1326E+00	9.7579E-01	110.0	5.8023E-01	1.1575E+00	170.0	3.1615E+01	2.9884E+01
50.0	1.2090E+00	9.8897E-01	112.0	8.6756E-01	1.1682E+00	172.0	3.5004E+01	3.3881E+01
52.0	1.2705E+00	1.0052E+00	114.0	1.2234E+00	1.1920E+00	174.0	3.7969E+01	3.7334E+01
54.0	1.3089E+00	1.0232E+00	116.0	1.5971E+00	1.2296E+00	176.0	4.0283E+01	4.0001E+01
56.0	1.3179E+00	1.0412E+00	118.0	1.9297E+00	1.2805E+00	178.0	4.1756E+01	4.1886E+01
58.0	1.2936E+00	1.0575E+00	120.0	2.1639E+00	1.3432E+00	180.0	4.2462E+01	4.2462E+01
60.0	1.2362E+00	1.0705E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 6.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	8.676E-01	8.676E-01	62.0	1.2916E+00	1.0620E+00	122.0	2.2095E+00	1.3621E+00			
2.0	8.7244E-01	8.6954E-01	64.0	1.2324E+00	1.0755E+00	124.0	2.2984E+00	1.4383E+00			
4.0	8.8651E-01	8.7509E-01	66.0	1.1406E+00	1.0841E+00	126.0	2.2009E+00	1.5230E+00			
6.0	9.0912E-01	8.8412E-01	68.0	1.0251E+00	1.0871E+00	128.0	1.9221E+00	1.6127E+00			
8.0	9.3901E-01	8.9632E-01	70.0	8.9954E-01	1.0841E+00	130.0	1.5012E+00	1.7030E+00			
10.0	9.7435E-01	9.1124E-01	72.0	7.8041E-01	1.0757E+00	132.0	1.0073E+00	1.7883E+00			
12.0	1.0128E+00	9.2830E-01	74.0	6.8536E-01	1.0633E+00	134.0	5.3005E-01	1.8618E+00			
14.0	1.0516E+00	9.4683E-01	76.0	6.3058E-01	1.0490E+00	136.0	1.8590E-01	1.9185E+00			
16.0	1.0875E+00	9.6604E-01	78.0	6.2821E-01	1.0356E+00	138.0	3.0131E-03	1.9481E+00			
18.0	1.1173E+00	9.8509E-01	80.0	6.8385E-01	1.0257E+00	140.0	1.0804E-01	1.9486E+00			
20.0	1.1379E+00	1.0031E+00	82.0	7.9487E-01	1.0219E+00	142.0	5.1729E-01	1.9299E+00			
22.0	1.1467E+00	1.0192E+00	84.0	9.4963E-01	1.0257E+00	144.0	1.2346E+00	1.9089E+00			
24.0	1.1418E+00	1.0326E+00	86.0	1.1282E+00	1.0379E+00	146.0	2.2363E+00	1.9223E+00			
26.0	1.1228E+00	1.0425E+00	88.0	1.3045E+00	1.0582E+00	148.0	3.4830E+00	2.0276E+00			
28.0	1.0903E+00	1.0486E+00	90.0	1.4497E+00	1.0848E+00	150.0	4.9311E+00	2.3048E+00			
30.0	1.0469E+00	1.0504E+00	92.0	1.5369E+00	1.1145E+00	152.0	6.5634E+00	2.8531E+00			
32.0	9.9632E-01	1.0482E+00	94.0	1.5458E+00	1.1445E+00	154.0	8.3695E+00	3.7840E+00			
34.0	9.4357E-01	1.0421E+00	96.0	1.4670E+00	1.1711E+00	156.0	1.0381E+01	5.2090E+00			
36.0	8.9454E-01	1.0330E+00	98.0	1.3053E+00	1.1913E+00	158.0	1.2618E+01	7.2237E+00			
38.0	8.5532E-01	1.0216E+00	100.0	1.0805E+00	1.2033E+00	160.0	1.5233E+01	9.8899E+00			
40.0	8.3152E-01	1.0092E+00	102.0	9.2606E-01	1.2066E+00	162.0	1.8184E+01	1.3218E+01			
42.0	8.2760E-01	9.9721E-01	104.0	5.8455E-01	1.2022E+00	164.0	2.1514E+01	1.7155E+01			
44.0	8.4613E-01	9.8691E-01	106.0	4.0143E-01	1.1927E+00	166.0	2.5181E+01	2.1571E+01			
46.0	8.8723E-01	9.7862E-01	108.0	3.1710E-01	1.1820E+00	168.0	2.9075E+01	2.6271E+01			
48.0	9.4853E-01	9.7639E-01	110.0	3.5899E-01	1.1743E+00	170.0	3.3016E+01	3.0994E+01			
50.0	1.0245E+00	9.7790E-01	112.0	5.3502E-01	1.1737E+00	172.0	3.8769E+01	3.5445E+01			
52.0	1.1075E+00	9.8436E-01	114.0	8.2989E-01	1.1833E+00	174.0	4.0669E+01	3.9315E+01			
54.0	1.1880E+00	9.9546E-01	116.0	1.2053E+00	1.2072E+00	176.0	4.2654E+01	4.2317E+01			
56.0	1.2555E+00	1.0103E+00	118.0	1.6046E+00	1.2450E+00	178.0	4.4305E+01	4.4202E+01			
58.0	1.3002E+00	1.0275E+00	120.0	1.9810E+00	1.2970E+00	180.0	4.4872E+01	4.4872E+01			
60.0	1.3139E+00	1.0454E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = 6.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	7.7529E-01	7.7529E-01	62.0	1.2687E+00	1.0295E+00	122.0	2.0237E+00	1.3178E+00
2.0	7.8012E-01	7.7684E-01	64.0	1.2914E+00	1.0470E+00	124.0	2.2753E+00	1.3864E+00
4.0	7.9457E-01	7.8151E-01	66.0	1.2745E+00	1.0635E+00	126.0	2.3475E+00	1.4681E+00
6.0	8.1852E-01	7.8929E-01	68.0	1.2163E+00	1.0769E+00	128.0	2.2141E+00	1.5604E+00
8.0	8.5164E-01	8.0016E-01	70.0	1.1210E+00	1.0854E+00	130.0	1.8893E+00	1.6595E+00
10.0	8.9323E-01	8.1408E-01	72.0	9.9918E-01	1.0879E+00	132.0	1.4205E+00	1.7602E+00
12.0	9.4206E-01	8.3091E-01	74.0	8.6675E-01	1.0843E+00	134.0	8.9504E-01	1.8550E+00
14.0	9.9623E-01	8.5045E-01	76.0	7.4344E-01	1.0751E+00	136.0	4.1583E-01	1.9348E+00
16.0	1.0531E+00	8.7233E-01	78.0	6.5003E-01	1.0623E+00	138.0	8.9750E-02	1.9900E+00
18.0	1.1095E+00	8.9606E-01	80.0	6.0503E-01	1.0483E+00	140.0	9.1740E-03	2.0134E+00
20.0	1.1615E+00	9.2101E-01	82.0	6.2127E-01	1.0360E+00	142.0	2.3783E-01	2.0041E+00
22.0	1.2052E+00	9.4638E-01	84.0	7.0291E-01	1.0285E+00	144.0	8.0310E-01	1.9741E+00
24.0	1.2366E+00	9.7127E-01	86.0	8.4349E-01	1.0281E+00	146.0	1.6986E+00	1.9536E+00
26.0	1.2525E+00	9.9468E-01	88.0	1.0256E+00	1.0363E+00	148.0	2.8908E+00	1.9971E+00
28.0	1.2506E+00	1.0156E+00	90.0	1.2224E+00	1.0534E+00	150.0	4.3376E+00	2.1863E+00
30.0	1.2299E+00	1.0331E+00	92.0	1.4014E+00	1.0780E+00	152.0	6.0054E+00	2.6285E+00
32.0	1.1912E+00	1.0465E+00	94.0	1.5292E+00	1.1078E+00	154.0	7.8839E+00	3.4504E+00
34.0	1.1369E+00	1.0550E+00	96.0	1.5778E+00	1.1393E+00	156.0	9.9945E+00	4.7848E+00
36.0	1.0713E+00	1.0594E+00	98.0	1.5306E+00	1.1687E+00	158.0	1.2388E+01	6.7533E+00
38.0	1.0002E+00	1.0569E+00	100.0	1.3866E+00	1.1926E+00	160.0	1.5129E+01	9.4438E+00
40.0	9.3036E-01	1.0509E+00	102.0	1.1833E+00	1.2085E+00	162.0	1.8278E+01	1.2888E+01
42.0	8.6917E-01	1.0413E+00	104.0	8.9492E-01	1.2155E+00	164.0	2.1857E+01	1.7045E+01
44.0	8.2385E-01	1.0293E+00	106.0	6.2873E-01	1.2143E+00	166.0	2.5829E+01	2.1788E+01
46.0	7.9975E-01	1.0164E+00	108.0	4.1717E-01	1.2072E+00	168.0	3.0079E+01	2.6902E+01
48.0	8.0154E-01	1.0041E+00	110.0	3.0844E-01	1.1980E+00	170.0	3.4412E+01	3.2099E+01
50.0	8.3044E-01	9.9426E-01	112.0	3.3665E-01	1.1912E+00	172.0	3.8565E+01	3.7037E+01
52.0	8.8476E-01	9.8810E-01	114.0	5.1344E-01	1.1915E+00	174.0	4.2236E+01	4.1380E+01
54.0	9.5950E-01	9.8671E-01	116.0	9.2322E-01	1.2014E+00	176.0	4.5124E+01	4.4731E+01
56.0	1.0485E+00	9.9060E-01	118.0	1.2231E+00	1.2252E+00	178.0	4.8973E+01	4.8874E+01
58.0	1.1351E+00	9.9964E-01	120.0	1.6486E+00	1.2639E+00	180.0	4.7609E+01	4.7609E+01
60.0	1.2131E+00	1.0131E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 6.8

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE			E-PLANE		
ANGLE	H-PLANE	H-PLANE	ANGLE	H-PLANE	H-PLANE	ANGLE	H-PLANE	H-PLANE	ANGLE	H-PLANE	H-PLANE
0.0	9.2578E-01	9.2578E-01	62.0	1.1191E+00	9.9967E-01	122.0	1.7163E+00	1.2872E+00	1.7163E+00	1.2872E+00	1.2872E+00
2.0	9.2510E-01	9.2524E-01	64.0	1.2105E+00	1.0132E+00	124.0	2.1009E+00	1.3441E+00	2.1009E+00	1.3441E+00	1.3441E+00
4.0	9.2349E-01	9.2373E-01	66.0	1.2770E+00	1.0301E+00	126.0	2.3408E+00	1.4174E+00	2.3408E+00	1.4174E+00	1.4174E+00
6.0	9.2207E-01	9.2153E-01	68.0	1.3056E+00	1.0481E+00	128.0	2.3786E+00	1.5061E+00	2.3786E+00	1.5061E+00	1.5061E+00
8.0	9.2251E-01	9.1905E-01	70.0	1.2881E+00	1.0650E+00	130.0	2.1932E+00	1.6079E+00	2.1932E+00	1.6079E+00	1.6079E+00
10.0	9.2673E-01	9.1694E-01	72.0	1.2228E+00	1.0785E+00	132.0	1.8016E+00	1.7184E+00	1.8016E+00	1.7184E+00	1.7184E+00
12.0	9.3657E-01	9.1553E-01	74.0	1.1155E+00	1.0866E+00	134.0	1.2921E+00	1.8306E+00	1.2921E+00	1.8306E+00	1.8306E+00
14.0	9.5340E-01	9.1572E-01	76.0	9.8002E-01	1.0883E+00	136.0	7.4510E-01	1.9345E+00	7.4510E-01	1.9345E+00	1.9345E+00
16.0	9.7785E-01	9.1799E-01	78.0	8.3682E-01	1.0837E+00	138.0	2.8591E-01	2.0179E+00	2.8591E-01	2.0179E+00	2.0179E+00
18.0	1.0096E+00	9.2278E-01	80.0	7.1017E-01	1.0737E+00	140.0	2.9397E-02	2.0687E+00	2.9397E-02	2.0687E+00	2.0687E+00
20.0	1.0473E+00	9.3037E-01	82.0	6.2448E-01	1.0607E+00	142.0	6.7671E-02	2.0792E+00	6.7671E-02	2.0792E+00	2.0792E+00
22.0	1.0884E+00	9.4080E-01	84.0	5.9985E-01	1.0476E+00	144.0	4.5657E-01	2.0531E+00	4.5657E-01	2.0531E+00	2.0531E+00
24.0	1.1298E+00	9.5389E-01	86.0	6.4732E-01	1.0377E+00	146.0	1.2113E+00	2.0125E+00	1.2113E+00	2.0125E+00	2.0125E+00
26.0	1.1676E+00	9.6916E-01	88.0	7.6759E-01	1.0341E+00	148.0	2.3127E+00	2.0060E+00	2.3127E+00	2.0060E+00	2.0060E+00
28.0	1.1976E+00	9.8592E-01	90.0	9.4547E-01	1.0389E+00	150.0	3.7220E+00	2.1140E+00	3.7220E+00	2.1140E+00	2.1140E+00
30.0	1.2159E+00	1.0032E+00	92.0	1.1547E+00	1.0530E+00	152.0	5.4012E+00	2.4496E+00	5.4012E+00	2.4496E+00	2.4496E+00
32.0	1.2192E+00	1.0200E+00	94.0	1.3596E+00	1.0758E+00	154.0	7.3324E+00	3.1536E+00	7.3324E+00	3.1536E+00	3.1536E+00
34.0	1.2054E+00	1.0352E+00	96.0	1.5207E+00	1.1052E+00	156.0	9.5300E+00	4.3808E+00	9.5300E+00	4.3808E+00	4.3808E+00
36.0	1.1738E+00	1.0476E+00	98.0	1.6029E+00	1.1376E+00	158.0	1.2043E+01	6.2805E+00	1.2043E+01	6.2805E+00	6.2805E+00
38.0	1.1254E+00	1.0563E+00	100.0	1.5821E+00	1.1692E+00	160.0	1.4931E+01	8.9709E+00	1.4931E+01	8.9709E+00	8.9709E+00
40.0	1.0631E+00	1.0607E+00	102.0	1.4522E+00	1.1961E+00	162.0	1.8291E+01	1.2511E+01	1.8291E+01	1.2511E+01	1.2511E+01
42.0	9.9210E-01	1.0604E+00	104.0	1.2281E+00	1.2155E+00	164.0	2.2128E+01	1.6877E+01	2.2128E+01	1.6877E+01	1.6877E+01
44.0	9.1882E-01	1.0555E+00	106.0	9.4582E-01	1.2258E+00	166.0	2.6420E+01	2.1945E+01	2.6420E+01	2.1945E+01	2.1945E+01
46.0	8.5110E-01	1.0466E+00	108.0	6.5750E-01	1.2275E+00	168.0	3.1050E+01	2.7487E+01	3.1050E+01	2.7487E+01	2.7487E+01
48.0	7.9711E-01	1.0348E+00	110.0	4.2277E-01	1.2228E+00	170.0	3.5804E+01	3.3182E+01	3.5804E+01	3.3182E+01	3.3182E+01
50.0	7.6446E-01	1.0216E+00	112.0	2.9740E-01	1.2154E+00	172.0	4.0390E+01	3.8644E+01	4.0390E+01	3.8644E+01	3.8644E+01
52.0	7.5909E-01	1.0086E+00	114.0	3.2124E-01	1.2098E+00	174.0	4.4465E+01	4.3457E+01	4.4465E+01	4.3457E+01	4.3457E+01
54.0	7.8423E-01	9.9762E-01	116.0	5.0812E-01	1.2107E+00	176.0	4.7684E+01	4.7229E+01	4.7684E+01	4.7229E+01	4.7229E+01
56.0	8.3944E-01	9.9026E-01	118.0	8.4006E-01	1.2220E+00	178.0	4.9750E+01	4.9635E+01	4.9750E+01	4.9635E+01	4.9635E+01
58.0	9.2011E-01	9.8780E-01	120.0	1.2675E+00	1.2468E+00	180.0	5.0462E+01	5.0462E+01	5.0462E+01	5.0462E+01	5.0462E+01
60.0	1.0174E+00	9.9094E-01									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 7.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.1557E+00	1.1557E+00	62.0	9.3232E-01	9.8950E-01	122.0	1.3332E+00	1.2707E+00	180.0	5.3371E+01	5.3371E+01	240.0	1.1557E+00	1.1557E+00	300.0	1.1557E+00	1.1557E+00
2.0	1.1493E+00	1.1533E+00	64.0	1.0399E+00	9.9353E-01	124.0	1.8015E+00	1.3137E+00	242.0	1.1493E+00	1.1533E+00	302.0	1.1493E+00	1.1533E+00	304.0	1.1493E+00	1.1533E+00
4.0	1.1308E+00	1.1463E+00	66.0	1.1517E+00	1.0034E+00	126.0	2.1853E+00	1.3747E+00	244.0	1.1308E+00	1.1463E+00	306.0	1.1308E+00	1.1463E+00	308.0	1.1308E+00	1.1463E+00
6.0	1.1019E+00	1.1351E+00	68.0	1.2500E+00	1.0182E+00	128.0	2.3968E+00	1.4544E+00	246.0	1.1019E+00	1.1351E+00	310.0	1.1019E+00	1.1351E+00	312.0	1.1019E+00	1.1351E+00
8.0	1.0656E+00	1.1202E+00	70.0	1.3169E+00	1.0362E+00	130.0	2.3854E+00	1.5523E+00	248.0	1.0656E+00	1.1202E+00	314.0	1.0656E+00	1.1202E+00	316.0	1.0656E+00	1.1202E+00
10.0	1.0253E+00	1.1024E+00	72.0	1.3381E+00	1.0551E+00	132.0	2.1310E+00	1.6658E+00	250.0	1.0253E+00	1.1024E+00	318.0	1.0253E+00	1.1024E+00	320.0	1.0253E+00	1.1024E+00
12.0	9.8499E-01	1.0826E+00	74.0	1.3050E+00	1.0722E+00	134.0	1.6845E+00	1.7895E+00	252.0	9.8499E-01	1.0826E+00	322.0	9.8499E-01	1.0826E+00	324.0	9.8499E-01	1.0826E+00
14.0	9.4862E-01	1.0619E+00	76.0	1.2182E+00	1.0851E+00	136.0	1.1239E+00	1.9137E+00	254.0	9.4862E-01	1.0619E+00	326.0	9.4862E-01	1.0619E+00	328.0	9.4862E-01	1.0619E+00
16.0	9.1977E-01	1.0414E+00	78.0	1.0877E+00	1.0918E+00	138.0	5.7217E-01	2.0248E+00	256.0	9.1977E-01	1.0414E+00	330.0	9.1977E-01	1.0414E+00	332.0	9.1977E-01	1.0414E+00
18.0	9.0136E-01	1.0222E+00	80.0	9.3291E-01	1.0917E+00	140.0	1.6155E-01	2.1068E+00	258.0	9.0136E-01	1.0222E+00	334.0	9.0136E-01	1.0222E+00	336.0	9.0136E-01	1.0222E+00
20.0	8.9537E-01	1.0053E+00	82.0	7.8025E-01	1.0852E+00	142.0	1.0399E-02	2.1456E+00	260.0	8.9537E-01	1.0053E+00	338.0	8.9537E-01	1.0053E+00	340.0	8.9537E-01	1.0053E+00
22.0	9.0267E-01	9.9162E-01	84.0	6.5883E-01	1.0740E+00	144.0	2.0599E-01	2.1358E+00	262.0	9.0267E-01	9.9162E-01	342.0	9.0267E-01	9.9162E-01	344.0	9.0267E-01	9.9162E-01
24.0	9.2291E-01	9.8189E-01	86.0	5.9531E-01	1.0609E+00	146.0	7.9194E-01	2.0895E+00	264.0	9.2291E-01	9.8189E-01	346.0	9.2291E-01	9.8189E-01	348.0	9.2291E-01	9.8189E-01
26.0	9.5443E-01	9.7655E-01	88.0	6.0835E-01	1.0496E+00	148.0	1.7693E+00	2.0469E+00	266.0	9.5443E-01	9.7655E-01	350.0	9.5443E-01	9.7655E-01	352.0	9.5443E-01	9.7655E-01
28.0	9.9437E-01	9.7575E-01	90.0	7.0378E-01	1.0435E+00	150.0	3.1033E+00	2.0837E+00	268.0	9.9437E-01	9.7575E-01	354.0	9.9437E-01	9.7575E-01	356.0	9.9437E-01	9.7575E-01
30.0	1.0387E+00	9.7931E-01	92.0	8.7176E-01	1.0454E+00	152.0	4.7738E+00	2.3158E+00	270.0	1.0387E+00	9.7931E-01	358.0	1.0387E+00	9.7931E-01	360.0	1.0387E+00	9.7931E-01
32.0	1.0827E+00	9.8670E-01	94.0	1.0867E+00	1.0569E+00	154.0	6.7305E+00	2.8956E+00	272.0	1.0827E+00	9.8670E-01	362.0	1.0827E+00	9.8670E-01	364.0	1.0827E+00	9.8670E-01
34.0	1.1209E+00	9.9705E-01	96.0	1.3104E+00	1.0779E+00	156.0	9.0111E+00	3.9997E+00	274.0	1.1209E+00	9.9705E-01	366.0	1.1209E+00	9.9705E-01	368.0	1.1209E+00	9.9705E-01
36.0	1.1481E+00	1.0092E+00	98.0	1.4984E+00	1.1085E+00	158.0	1.1636E+01	5.8070E+00	276.0	1.1481E+00	1.0092E+00	370.0	1.1481E+00	1.0092E+00	372.0	1.1481E+00	1.0092E+00
38.0	1.1597E+00	1.0219E+00	100.0	1.6084E+00	1.1395E+00	160.0	1.4687E+01	8.4692E+00	278.0	1.1597E+00	1.0219E+00	374.0	1.1597E+00	1.0219E+00	376.0	1.1597E+00	1.0219E+00
40.0	1.1522E+00	1.0337E+00	102.0	1.6096E+00	1.1726E+00	162.0	1.8238E+01	1.2078E+01	280.0	1.1522E+00	1.0337E+00	378.0	1.1522E+00	1.0337E+00	380.0	1.1522E+00	1.0337E+00
42.0	1.1243E+00	1.0432E+00	104.0	1.4908E+00	1.2019E+00	164.0	2.2336E+01	1.6632E+01	282.0	1.1243E+00	1.0432E+00	382.0	1.1243E+00	1.0432E+00	384.0	1.1243E+00	1.0432E+00
44.0	1.0771E+00	1.0494E+00	106.0	1.2649E+00	1.2239E+00	166.0	2.6955E+01	2.2015E+01	284.0	1.0771E+00	1.0494E+00	386.0	1.0771E+00	1.0494E+00	388.0	1.0771E+00	1.0494E+00
46.0	1.0146E+00	1.0514E+00	108.0	9.5996E-01	1.2369E+00	168.0	3.1975E+01	2.7990E+01	286.0	1.0146E+00	1.0514E+00	390.0	1.0146E+00	1.0514E+00	392.0	1.0146E+00	1.0514E+00
48.0	9.4352E-01	1.0490E+00	110.0	6.6333E-01	1.2411E+00	170.0	3.7168E+01	3.4202E+01	288.0	9.4352E-01	1.0490E+00	394.0	9.4352E-01	1.0490E+00	396.0	9.4352E-01	1.0490E+00
50.0	8.7268E-01	1.0424E+00	112.0	4.1195E-01	1.2386E+00	172.0	4.2209E+01	4.0214E+01	290.0	8.7268E-01	1.0424E+00	398.0	8.7268E-01	1.0424E+00	400.0	8.7268E-01	1.0424E+00
52.0	8.1231E-01	1.0324E+00	114.0	2.7874E-01	1.2331E+00	174.0	4.6771E+01	4.5551E+01	292.0	8.1231E-01	1.0324E+00	402.0	8.1231E-01	1.0324E+00	404.0	8.1231E-01	1.0324E+00
54.0	7.7257E-01	1.0206E+00	116.0	3.0827E-01	1.2293E+00	176.0	5.0281E+01	4.9754E+01	294.0	7.7257E-01	1.0206E+00	406.0	7.7257E-01	1.0206E+00	408.0	7.7257E-01	1.0206E+00
56.0	7.6194E-01	1.0085E+00	118.0	5.1485E-01	1.2314E+00	178.0	5.2578E+01	5.2445E+01	296.0	7.6194E-01	1.0085E+00	410.0	7.6194E-01	1.0085E+00	412.0	7.6194E-01	1.0085E+00
58.0	7.8559E-01	9.9813E-01	120.0	8.7596E-01	1.2441E+00	180.0	5.3371E+01	5.3371E+01	298.0	7.8559E-01	9.9813E-01	414.0	7.8559E-01	9.9813E-01	416.0	7.8559E-01	9.9813E-01
60.0	8.4404E-01	9.9131E-01							300.0	8.4404E-01	9.9131E-01	418.0	8.4404E-01	9.9131E-01	420.0	8.4404E-01	9.9131E-01

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 7.2

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.2377E+00	1.2377E+00	62.0	7.9711E-01	1.0027E+00	122.0	9.3834E-01	1.2668E+00
2.0	1.2311E+00	1.2356E+00	64.0	8.6043E-01	9.9671E-01	124.0	1.4287E+00	1.2958E+00
4.0	1.2117E+00	1.2293E+00	66.0	9.5671E-01	9.9603E-01	126.0	1.9127E+00	1.3424E+00
6.0	1.1806E+00	1.2109E+00	68.0	1.0724E+00	1.0015E+00	128.0	2.2847E+00	1.4092E+00
8.0	1.1398E+00	1.2048E+00	70.0	1.1890E+00	1.0129E+00	130.0	2.4549E+00	1.4978E+00
10.0	1.0916E+00	1.1873E+00	72.0	1.2852E+00	1.0292E+00	132.0	2.3727E+00	1.6075E+00
12.0	1.0389E+00	1.1668E+00	74.0	1.3411E+00	1.0483E+00	134.0	2.0414E+00	1.7356E+00
14.0	9.8473E-01	1.1439E+00	76.0	1.3419E+00	1.0673E+00	136.0	1.5223E+00	1.8741E+00
16.0	9.3249E-01	1.1194E+00	78.0	1.2816E+00	1.0835E+00	138.0	9.2610E-01	2.0095E+00
18.0	8.8548E-01	1.0940E+00	80.0	1.1651E+00	1.0944E+00	140.0	3.9273E-01	2.1234E+00
20.0	8.4690E-01	1.0687E+00	82.0	1.0030E+00	1.0983E+00	142.0	6.4639E-02	2.1961E+00
22.0	8.1934E-01	1.0444E+00	84.0	8.4003E-01	1.0951E+00	144.0	6.0995E-02	2.2130E+00
24.0	8.0697E-01	1.0222E+00	86.0	6.9055E-01	1.0899E+00	146.0	4.5621E-01	2.1754E+00
26.0	8.0987E-01	1.0029E+00	88.0	5.9305E-01	1.0735E+00	148.0	1.2842E+00	2.1119E+00
28.0	8.2942E-01	9.8762E-01	90.0	5.7322E-01	1.0613E+00	150.0	2.5260E+00	2.0907E+00
30.0	8.6503E-01	9.7688E-01	92.0	6.4371E-01	1.0533E+00	152.0	4.1502E+00	2.2263E+00
32.0	9.1447E-01	9.7117E-01	94.0	7.9957E-01	1.0529E+00	154.0	6.1286E+00	2.6800E+00
34.0	9.7377E-01	9.7057E-01	96.0	1.0171E+00	1.0622E+00	156.0	8.4610E+00	3.6484E+00
36.0	1.0373E+00	9.7482E-01	98.0	1.2503E+00	1.0816E+00	158.0	1.1187E+01	5.3409E+00
38.0	1.0982E+00	9.8323E-01	100.0	1.4679E+00	1.1095E+00	160.0	1.4381E+01	7.9463E+00
40.0	1.1489E+00	9.9473E-01	102.0	1.6028E+00	1.1428E+00	162.0	1.8126E+01	1.1593E+01
42.0	1.1824E+00	1.0090E+00	104.0	1.6233E+00	1.1772E+00	164.0	2.2479E+01	1.6310E+01
44.0	1.1928E+00	1.0213E+00	106.0	1.5130E+00	1.2083E+00	166.0	2.7424E+01	2.1995E+01
46.0	1.1769E+00	1.0332E+00	108.0	1.2836E+00	1.2324E+00	168.0	3.2841E+01	2.8400E+01
48.0	1.1348E+00	1.0421E+00	110.0	9.7507E-01	1.2474E+00	170.0	3.8485E+01	3.5143E+01
50.0	1.0705E+00	1.0469E+00	112.0	6.5273E-01	1.2540E+00	172.0	4.3999E+01	4.1731E+01
52.0	9.9208E-01	1.0470E+00	114.0	3.8977E-01	1.2535E+00	174.0	4.8951E+01	4.7622E+01
54.0	9.1047E-01	1.0426E+00	116.0	2.5691E-01	1.2500E+00	176.0	5.2893E+01	5.2287E+01
56.0	8.3864E-01	1.0343E+00	118.0	3.0259E-01	1.2478E+00	178.0	5.5437E+01	5.5283E+01
58.0	7.8943E-01	1.0236E+00	120.0	5.3965E-01	1.2519E+00	180.0	5.6316E+01	5.6316E+01
60.0	7.7350E-01	1.0123E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 7.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.1025E+00	1.1025E+00	62.0	7.7201E-01	1.0280E+00	122.0	5.9322E-01	1.2788E+00	122.0	5.9322E-01	1.2788E+00
2.0	1.1015E+00	1.1025E+00	64.0	7.5765E-01	1.0167E+00	124.0	1.0392E+00	1.2900E+00	124.0	1.0392E+00	1.2900E+00
4.0	1.0987E+00	1.1025E+00	66.0	7.8851E-01	1.0074E+00	126.0	1.5650E+00	1.3225E+00	126.0	1.5650E+00	1.3225E+00
6.0	1.0935E+00	1.1024E+00	68.0	8.6316E-01	1.0024E+00	128.0	2.0573E+00	1.3744E+00	128.0	2.0573E+00	1.3744E+00
8.0	1.0856E+00	1.1017E+00	70.0	9.7184E-01	1.0032E+00	130.0	2.4005E+00	1.4493E+00	130.0	2.4005E+00	1.4493E+00
10.0	1.0742E+00	1.1003E+00	72.0	1.0971E+00	1.0105E+00	132.0	2.5049E+00	1.5496E+00	132.0	2.5049E+00	1.5496E+00
12.0	1.0587E+00	1.0977E+00	74.0	1.2163E+00	1.0240E+00	134.0	2.3315E+00	1.6752E+00	134.0	2.3315E+00	1.6752E+00
14.0	1.0385E+00	1.0935E+00	76.0	1.3051E+00	1.0419E+00	136.0	1.9056E+00	1.8210E+00	136.0	1.9056E+00	1.8210E+00
16.0	1.0133E+00	1.0873E+00	78.0	1.3424E+00	1.0615E+00	138.0	1.3165E+00	1.9752E+00	138.0	1.3165E+00	1.9752E+00
18.0	9.8342E-01	1.0791E+00	80.0	1.3148E+00	1.0799E+00	140.0	7.0206E-01	2.1189E+00	140.0	7.0206E-01	2.1189E+00
20.0	9.5012E-01	1.0687E+00	82.0	1.2210E+00	1.0940E+00	142.0	2.2137E-01	2.2279E+00	142.0	2.2137E-01	2.2279E+00
22.0	9.1548E-01	1.0562E+00	84.0	1.0730E+00	1.1015E+00	144.0	2.3482E-02	2.2797E+00	144.0	2.3482E-02	2.2797E+00
24.0	8.8257E-01	1.0422E+00	86.0	8.9636E-01	1.1015E+00	146.0	2.2037E-01	2.2655E+00	146.0	2.2037E-01	2.2655E+00
26.0	8.5523E-01	1.0273E+00	88.0	7.2572E-01	1.0946E+00	148.0	8.7194E-01	2.1950E+00	148.0	8.7194E-01	2.1950E+00
28.0	8.3765E-01	1.0122E+00	90.0	5.9898E-01	1.0832E+00	150.0	1.9876E+00	2.1307E+00	150.0	1.9876E+00	2.1307E+00
30.0	8.3374E-01	9.9803E-01	92.0	5.4909E-01	1.0709E+00	152.0	3.5435E+00	2.1804E+00	152.0	3.5435E+00	2.1804E+00
32.0	8.4647E-01	9.8587E-01	94.0	5.9501E-01	1.0619E+00	154.0	5.5109E+00	2.5103E+00	154.0	5.5109E+00	2.5103E+00
34.0	8.7713E-01	9.7672E-01	96.0	7.4036E-01	1.0597E+00	156.0	7.8821E+00	3.3498E+00	156.0	7.8821E+00	3.3498E+00
36.0	9.2472E-01	9.7147E-01	98.0	9.6060E-01	1.0674E+00	158.0	1.0692E+01	4.8944E+00	158.0	1.0692E+01	4.8944E+00
38.0	9.8571E-01	9.7066E-01	100.0	1.2151E+00	1.0857E+00	160.0	1.4016E+01	7.4172E+00	160.0	1.4016E+01	7.4172E+00
40.0	1.0540E+00	9.7446E-01	102.0	1.4491E+00	1.1133E+00	162.0	1.7944E+01	1.1074E+01	162.0	1.7944E+01	1.1074E+01
42.0	1.1215E+00	9.8253E-01	104.0	1.6063E+00	1.1471E+00	164.0	2.2547E+01	1.5930E+01	164.0	2.2547E+01	1.5930E+01
44.0	1.1791E+00	9.9403E-01	106.0	1.6418E+00	1.1826E+00	166.0	2.7820E+01	2.1903E+01	166.0	2.7820E+01	2.1903E+01
46.0	1.2178E+00	1.0077E+00	108.0	1.5345E+00	1.2152E+00	168.0	3.3644E+01	2.8741E+01	168.0	3.3644E+01	2.8741E+01
48.0	1.2303E+00	1.0218E+00	110.0	1.2960E+00	1.2411E+00	170.0	3.9760E+01	3.6030E+01	170.0	3.9760E+01	3.6030E+01
50.0	1.2123E+00	1.0348E+00	112.0	9.7086E-01	1.2582E+00	172.0	4.5776E+01	4.3224E+01	172.0	4.5776E+01	4.3224E+01
52.0	1.1638E+00	1.0448E+00	114.0	6.3102E-01	1.2665E+00	174.0	5.1210E+01	4.9705E+01	174.0	5.1210E+01	4.9705E+01
54.0	1.0897E+00	1.0506E+00	116.0	3.6076E-01	1.2681E+00	176.0	5.5555E+01	5.4865E+01	176.0	5.5555E+01	5.4865E+01
56.0	9.9937E-01	1.0514E+00	118.0	2.3762E-01	1.2668E+00	178.0	5.8366E+01	5.8191E+01	178.0	5.8366E+01	5.8191E+01
58.0	9.0621E-01	1.0472E+00	120.0	3.1235E-01	1.2666E+00	180.0	5.9339E+01	5.9398E+01	180.0	5.9339E+01	5.9398E+01
60.0	8.2546E-01	1.0389E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = 7.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	8.9325E-01	8.9325E-01	62.0	8.6844E-01	1.0485E+00	122.0	3.4346E-01	1.2870E+00	180.0	6.2482E+01	6.2482E+01
2.0	8.9843E-01	8.9535E-01	64.0	7.8708E-01	1.0393E+00	124.0	6.8209E-01	1.2957E+00			
4.0	9.1355E-01	9.0113E-01	66.0	7.3886E-01	1.0278E+00	126.0	1.1832E+00	1.3159E+00			
6.0	9.3743E-01	9.1051E-01	68.0	7.3625E-01	1.0167E+00	128.0	1.7402E+00	1.3528E+00			
8.0	9.6807E-01	9.2319E-01	70.0	7.8444E-01	1.0084E+00	130.0	2.2212E+00	1.4119E+00			
10.0	1.0027E+00	9.3819E-01	72.0	8.7917E-01	1.0052E+00	132.0	2.5127E+00	1.4982E+00			
12.0	1.0380E+00	9.5480E-01	74.0	1.0062E+00	1.0087E+00	134.0	2.5276E+00	1.6147E+00			
14.0	1.0700E+00	9.7205E-01	76.0	1.1429E+00	1.0191E+00	136.0	2.2355E+00	1.7603E+00			
16.0	1.0950E+00	9.8673E-01	78.0	1.2615E+00	1.0352E+00	138.0	1.7076E+00	1.9264E+00			
18.0	1.1093E+00	1.0044E+00	80.0	1.3350E+00	1.0599E+00	140.0	1.0619E+00	2.0952E+00			
20.0	1.1106E+00	1.0174E+00	82.0	1.3425E+00	1.0748E+00	142.0	4.6431E-01	2.2404E+00			
22.0	1.0977E+00	1.0273E+00	84.0	1.2751E+00	1.0916E+00	144.0	8.8455E-02	2.3324E+00			
24.0	1.0713E+00	1.0333E+00	86.0	1.1396E+00	1.1023E+00	146.0	8.1512E-02	2.3487E+00			
26.0	1.0340E+00	1.0352E+00	88.0	9.5950E-01	1.1054E+00	148.0	5.3947E-01	2.2902E+00			
28.0	9.9039E-01	1.0330E+00	90.0	7.7131E-01	1.1010E+00	150.0	1.5002E+00	2.1992E+00			
30.0	9.4632E-01	1.0273E+00	92.0	6.1832E-01	1.0911E+00	152.0	2.9501E+00	2.1761E+00			
32.0	9.0847E-01	1.0190E+00	94.0	5.4101E-01	1.0791E+00	154.0	4.8817E+00	2.3681E+00			
34.0	8.8328E-01	1.0091E+00	96.0	5.6690E-01	1.0696E+00	156.0	7.2667E+00	3.0647E+00			
36.0	8.7595E-01	9.9910E-01	98.0	7.0211E-01	1.0667E+00	158.0	1.0141E+01	4.4760E+00			
38.0	8.8953E-01	9.8043E-01	100.0	9.2685E-01	1.0736E+00	160.0	1.3578E+01	6.8930E+00			
40.0	9.2414E-01	9.8443E-01	102.0	1.1969E+00	1.0914E+00	162.0	1.7680E+01	1.0534E+01			
42.0	9.7660E-01	9.8215E-01	104.0	1.4512E+00	1.1191E+00	164.0	2.2531E+01	1.5506E+01			
44.0	1.0405E+00	9.8418E-01	106.0	1.6254E+00	1.1535E+00	166.0	2.8139E+01	2.1754E+01			
46.0	1.1068E+00	9.9054E-01	108.0	1.6677E+00	1.1901E+00	168.0	3.4388E+01	2.9029E+01			
48.0	1.1650E+00	1.0006E+00	110.0	1.5539E+00	1.2241E+00	170.0	4.1005E+01	3.6885E+01			
50.0	1.2045E+00	1.0132E+00	112.0	1.2971E+00	1.2516E+00	172.0	4.7561E+01	4.4718E+01			
52.0	1.2168E+00	1.0266E+00	114.0	9.4934E-01	1.2705E+00	174.0	5.3516E+01	5.1829E+01			
54.0	1.1965E+00	1.0390E+00	116.0	5.9303E-01	1.2806E+00	176.0	5.8300E+01	5.7524E+01			
56.0	1.1435E+00	1.0485E+00	118.0	3.2296E-01	1.2842E+00	178.0	6.1405E+01	6.1207E+01			
58.0	1.0631E+00	1.0536E+00	120.0	2.2314E-01	1.2848E+00	180.0					
60.0	9.6628E-01	1.0536E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BI-STATIC SCATTERING FROM CONDUCTING SPHERE

$K_2 = 7.8$

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	8.1514E-01	8.1514E-01	62.0	1.0389E+00	1.0529E+00	122.0	2.1690E-01	1.3052E+00	180.0	6.5727E+01	6.5727E+01
2.0	8.2075E-01	8.1596E-01	64.0	9.3687E-01	1.0519E+00	124.0	4.0082E-01	1.3097E+00			
4.0	8.3746E-01	8.2242E-01	66.0	8.3690E-01	1.0457E+00	126.0	8.1034E-01	1.3209E+00			
6.0	8.6478E-01	8.3146E-01	68.0	7.5969E-01	1.0358E+00	128.0	1.3661E+00	1.3447E+00			
8.0	9.0177E-01	8.4393E-01	70.0	7.2398E-01	1.0245E+00	130.0	1.9409E+00	1.3876E+00			
10.0	9.4679E-01	8.5961E-01	72.0	7.4217E-01	1.0144E+00	132.0	2.3909E+00	1.4569E+00			
12.0	9.9736E-01	8.7814E-01	74.0	8.1668E-01	1.0084E+00	134.0	2.5929E+00	1.5590E+00			
14.0	1.0501E+00	8.9900E-01	76.0	9.3784E-01	1.0087E+00	136.0	2.4802E+00	1.6970E+00			
16.0	1.1009E+00	9.2149E-01	78.0	1.0843E+00	1.0163E+00	138.0	2.0654E+00	1.8669E+00			
18.0	1.1451E+00	9.4474E-01	80.0	1.2262E+00	1.0307E+00	140.0	1.4435E+00	2.0541E+00			
20.0	1.1781E+00	9.6722E-01	82.0	1.3308E+00	1.0499E+00	142.0	7.7401E-01	2.2323E+00			
22.0	1.1960E+00	9.8932E-01	84.0	1.3699E+00	1.0709E+00	144.0	2.4685E-01	2.3668E+00			
24.0	1.1960E+00	1.0084E+00	86.0	1.3272E+00	1.0899E+00	146.0	4.1309E-02	2.4243E+00			
26.0	1.1770E+00	1.0240E+00	88.0	1.2038E+00	1.1034E+00	148.0	2.9190E-01	2.3901E+00			
28.0	1.1403E+00	1.0352E+00	90.0	1.0210E+00	1.1094E+00	150.0	1.0711E+00	2.2894E+00			
30.0	1.0892E+00	1.0415E+00	92.0	8.1699E-01	1.1074E+00	152.0	2.3947E+00	2.2088E+00			
32.0	1.0292E+00	1.0428E+00	94.0	6.4053E-01	1.0990E+00	154.0	4.2474E+00	2.3120E+00			
34.0	9.6736E-01	1.0394E+00	96.0	5.3944E-01	1.0877E+00	156.0	6.6189E+00	2.8394E+00			
36.0	9.1161E-01	1.0322E+00	98.0	5.4846E-01	1.0782E+00	158.0	9.5366E+00	4.0896E+00			
38.0	8.6970E-01	1.0224E+00	100.0	6.7842E-01	1.0750E+00	160.0	1.3073E+01	6.3774E+00			
40.0	8.4812E-01	1.0116E+00	102.0	9.1012E-01	1.0817E+00	162.0	1.7340E+01	9.9737E+00			
42.0	8.5104E-01	1.0013E+00	104.0	1.1954E+00	1.0996E+00	164.0	2.2436E+01	1.5036E+01			
44.0	8.7941E-01	9.9338E-01	106.0	1.4661E+00	1.1278E+00	166.0	2.8384E+01	2.1542E+01			
46.0	9.3032E-01	9.8905E-01	108.0	1.6497E+00	1.1631E+00	168.0	3.5074E+01	2.9252E+01			
48.0	9.9700E-01	9.8921E-01	110.0	1.6885E+00	1.2008E+00	170.0	4.2217E+01	3.7692E+01			
50.0	1.0693E+00	9.9405E-01	112.0	1.5570E+00	1.2360E+00	172.0	4.9346E+01	4.6196E+01			
52.0	1.1352E+00	1.0030E+00	114.0	1.2735E+00	1.2648E+00	174.0	5.5860E+01	5.3979E+01			
54.0	1.1819E+00	1.0149E+00	116.0	9.0040E-01	1.2851E+00	176.0	6.1117E+01	6.0246E+01			
56.0	1.1990E+00	1.0278E+00	118.0	5.3263E-01	1.2970E+00	178.0	6.4539E+01	6.4316E+01			
58.0	1.1800E+00	1.0397E+00	120.0	2.7552E-01	1.3029E+00	180.0	6.5727E+01	6.5727E+01			
60.0	1.1244E+00	1.0486E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = 8.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.3368E-01	9.3368E-01	62.0	1.1902E+00	1.0415E+00	122.0	2.2565E-01	1.3223E+00
2.0	9.3350E-01	9.3333E-01	64.0	1.1226E+00	1.0499E+00	124.0	2.2796E-01	1.3271E+00
4.0	9.3344E-01	9.3237E-01	66.0	1.0234E+00	1.0532E+00	126.0	4.9237E-01	1.3336E+00
6.0	9.3480E-01	9.3115E-01	68.0	9.1101E-01	1.0508E+00	128.0	9.8063E-01	1.3476E+00
8.0	9.3841E-01	9.3015E-01	70.0	8.0874E-01	1.0435E+00	130.0	1.5814E+00	1.3760E+00
10.0	9.4917E-01	9.2944E-01	72.0	7.4032E-01	1.0331E+00	132.0	2.1558E+00	1.4275E+00
12.0	9.6551E-01	9.3174E-01	74.0	7.2671E-01	1.0223E+00	134.0	2.5402E+00	1.5113E+00
14.0	9.8900E-01	9.3443E-01	76.0	7.7584E-01	1.0144E+00	136.0	2.6230E+00	1.6351E+00
16.0	1.0190E+00	9.4040E-01	78.0	8.8398E-01	1.0121E+00	138.0	2.3653E+00	1.8004E+00
18.0	1.0534E+00	9.4800E-01	80.0	1.0322E+00	1.0170E+00	140.0	1.8211E+00	1.9976E+00
20.0	1.0893E+00	9.5912E-01	82.0	1.1894E+00	1.0296E+00	142.0	1.1300E+00	2.2029E+00
22.0	1.1225E+00	9.7273E-01	84.0	1.3182E+00	1.0481E+00	144.0	4.8664E-01	2.3790E+00
24.0	1.1486E+00	9.8713E-01	86.0	1.3837E+00	1.0696E+00	146.0	9.6955E-02	2.4835E+00
26.0	1.1633E+00	1.0010E+00	88.0	1.3624E+00	1.0901E+00	148.0	1.3449E-01	2.4862E+00
28.0	1.1633E+00	1.0140E+00	90.0	1.2498E+00	1.1060E+00	150.0	7.1153E-01	2.3927E+00
30.0	1.1454E+00	1.0242E+00	92.0	1.0649E+00	1.1143E+00	152.0	1.8747E+00	2.2722E+00
32.0	1.1127E+00	1.0353E+00	94.0	8.4759E-01	1.1142E+00	154.0	3.6256E+00	2.2789E+00
34.0	1.0643E+00	1.0426E+00	96.0	6.5168E-01	1.1071E+00	156.0	5.9595E+00	2.6595E+00
36.0	1.0058E+00	1.0435E+00	98.0	5.3203E-01	1.0966E+00	158.0	8.8911E+00	3.7381E+00
38.0	9.4362E-01	1.0401E+00	100.0	5.2969E-01	1.0873E+00	160.0	1.2520E+01	5.8739E+00
40.0	8.8006E-01	1.0379E+00	102.0	6.5977E-01	1.0843E+00	162.0	1.6942E+01	9.3943E+00
42.0	8.4170E-01	1.0230E+00	104.0	9.0176E-01	1.0912E+00	164.0	2.2276E+01	1.4514E+01
44.0	8.1839E-01	1.0119E+00	106.0	1.2025E+00	1.1097E+00	166.0	2.8504E+01	2.1255E+01
46.0	8.2177E-01	1.0013E+00	108.0	1.4858E+00	1.1388E+00	168.0	3.5700E+01	2.9390E+01
48.0	8.5386E-01	9.9300E-01	110.0	1.6711E+00	1.1752E+00	170.0	4.3383E+01	3.8422E+01
50.0	9.1207E-01	9.8849E-01	112.0	1.6963E+00	1.2139E+00	172.0	5.1107E+01	4.7622E+01
52.0	9.8888E-01	9.8873E-01	114.0	1.5375E+00	1.2501E+00	174.0	5.8208E+01	5.6111E+01
54.0	1.0724E+00	9.9346E-01	116.0	1.2213E+00	1.2800E+00	176.0	6.3963E+01	6.3988E+01
56.0	1.1478E+00	1.0035E+00	118.0	8.2364E-01	1.3015E+00	178.0	6.7721E+01	6.7471E+01
58.0	1.1999E+00	1.0161E+00	120.0	4.5350E-01	1.3150E+00	180.0	6.9028E+01	6.9028E+01
60.0	1.2164E+00	1.0295E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = 8.2

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.1213E+00	1.1213E+00	62.0	1.2335E+00	1.0224E+00	122.0	3.8557E+01	1.3342E+00	122.0	3.8557E+01	1.3342E+00
2.0	1.1147E+00	1.1147E+00	64.0	1.2352E+00	1.0362E+00	124.0	1.8607E+01	1.3432E+00	124.0	1.8607E+01	1.3432E+00
4.0	1.0958E+00	1.1117E+00	66.0	1.1879E+00	1.0477E+00	126.0	2.7035E+01	1.3497E+00	126.0	2.7035E+01	1.3497E+00
6.0	1.0671E+00	1.1004E+00	68.0	1.0972E+00	1.0547E+00	128.0	6.3110E+01	1.3582E+00	128.0	6.3110E+01	1.3582E+00
8.0	1.0323E+00	1.0857E+00	70.0	9.7898E+01	1.0559E+00	130.0	1.1998E+00	1.3753E+00	130.0	1.1998E+00	1.3753E+00
10.0	9.9577E-01	1.0686E+00	72.0	8.5769E-01	1.0513E+00	132.0	1.8391E+00	1.4102E+00	132.0	1.8391E+00	1.4102E+00
12.0	9.6229E-01	1.0503E+00	74.0	7.6160E-01	1.0422E+00	134.0	2.3779E+00	1.4743E+00	134.0	2.3779E+00	1.4743E+00
14.0	9.3611E-01	1.0322E+00	76.0	7.1639E-01	1.0314E+00	136.0	2.6533E+00	1.5791E+00	136.0	2.6533E+00	1.5791E+00
16.0	9.2063E-01	1.0154E+00	78.0	7.3853E-01	1.0220E+00	138.0	2.5897E+00	1.7320E+00	138.0	2.5897E+00	1.7320E+00
18.0	9.1796E-01	1.0012E+00	80.0	8.2974E-01	1.0174E+00	140.0	2.1714E+00	1.9300E+00	140.0	2.1714E+00	1.9300E+00
20.0	9.2865E-01	9.9044E-01	82.0	9.7456E-01	1.0200E+00	142.0	1.5098E+00	2.1543E+00	142.0	1.5098E+00	2.1543E+00
22.0	9.5159E-01	9.8383E-01	84.0	1.1418E+00	1.0306E+00	144.0	7.9179E-01	2.3679E+00	144.0	7.9179E-01	2.3679E+00
24.0	9.8403E-01	9.8152E-01	86.0	1.2904E+00	1.0482E+00	146.0	2.4158E-01	2.5219E+00	146.0	2.4158E-01	2.5219E+00
26.0	1.0217E+00	9.8369E-01	88.0	1.3793E+00	1.0698E+00	148.0	6.9781E-02	2.5713E+00	148.0	6.9781E-02	2.5713E+00
28.0	1.0594E+00	9.8915E-01	90.0	1.3777E+00	1.0914E+00	150.0	4.3194E-01	2.5013E+00	150.0	4.3194E-01	2.5013E+00
30.0	1.0910E+00	9.9797E-01	92.0	1.2760E+00	1.1089E+00	152.0	1.4119E+00	2.3595E+00	152.0	1.4119E+00	2.3595E+00
32.0	1.1110E+00	1.0080E+00	94.0	1.0902E+00	1.1189E+00	154.0	3.0305E+00	2.2853E+00	154.0	3.0305E+00	2.2853E+00
34.0	1.1147E+00	1.0180E+00	96.0	8.6213E-01	1.1203E+00	156.0	5.3046E+00	2.5257E+00	156.0	5.3046E+00	2.5257E+00
36.0	1.0994E+00	1.0266E+00	98.0	6.5072E-01	1.1143E+00	158.0	8.2457E+00	3.4262E+00	158.0	8.2457E+00	3.4262E+00
38.0	1.0652E+00	1.0325E+00	100.0	5.1781E-01	1.1044E+00	160.0	1.1934E+01	5.3897E+00	160.0	1.1934E+01	5.3897E+00
40.0	1.0156E+00	1.0347E+00	102.0	5.1078E-01	1.0955E+00	162.0	1.6494E+01	8.8037E+00	162.0	1.6494E+01	8.8037E+00
42.0	9.5735E-01	1.0330E+00	104.0	4.4685E-01	1.0932E+00	164.0	2.2055E+01	1.3947E+01	164.0	2.2055E+01	1.3947E+01
44.0	8.9976E-01	1.0274E+00	106.0	9.0394E-01	1.1010E+00	166.0	2.8674E+01	2.0895E+01	166.0	2.8674E+01	2.0895E+01
46.0	8.5360E-01	1.0190E+00	108.0	1.2218E+00	1.1207E+00	168.0	3.6257E+01	2.9440E+01	168.0	3.6257E+01	2.9440E+01
48.0	8.2909E-01	1.0092E+00	110.0	1.5150E+00	1.1511E+00	170.0	4.4492E+01	3.9089E+01	170.0	4.4492E+01	3.9089E+01
50.0	8.3379E-01	9.9979E-01	112.0	1.6949E+00	1.1887E+00	172.0	5.2833E+01	4.8988E+01	172.0	5.2833E+01	4.8988E+01
52.0	8.7061E-01	9.9264E-01	114.0	1.6964E+00	1.2285E+00	174.0	6.0547E+01	5.8218E+01	174.0	6.0547E+01	5.8218E+01
54.0	9.3641E-01	9.8940E-01	116.0	1.5005E+00	1.2656E+00	176.0	6.8829E+01	6.8741E+01	176.0	6.8829E+01	6.8741E+01
56.0	1.0217E+00	9.9107E-01	118.0	1.1483E+00	1.2965E+00	178.0	7.0944E+01	7.9804E+01	178.0	7.0944E+01	7.9804E+01
58.0	1.1115E+00	9.9782E-01	120.0	7.2644E-01	1.3192E+00	180.0	7.2377E+01	7.2377E+01	180.0	7.2377E+01	7.2377E+01
60.0	1.1879E+00	1.0088E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = 8.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.1926E+00	1.1926E+00	62.0	1.1427E+00	1.0057E+00	122.0	6.1258E-01	1.3389E+00
2.0	1.1854E+00	1.1902E+00	64.0	1.2118E+00	1.0180E+00	124.0	2.7758E-01	1.3552E+00
4.0	1.1643E+00	1.1833E+00	66.0	1.2409E+00	1.0321E+00	126.0	1.7054E-01	1.3657E+00
6.0	1.1312E+00	1.1720E+00	68.0	1.2184E+00	1.0454E+00	128.0	3.6050E-01	1.3734E+00
8.0	1.0887E+00	1.1569E+00	70.0	1.1437E+00	1.0551E+00	130.0	8.3088E-01	1.3837E+00
10.0	1.0402E+00	1.1383E+00	72.0	1.0287E+00	1.0592E+00	132.0	1.4756E+00	1.4051E+00
12.0	9.8955E-01	1.1172E+00	74.0	8.9716E-01	1.0572E+00	134.0	2.1240E+00	1.4500E+00
14.0	9.4092E-01	1.0944E+00	76.0	7.7970E-01	1.0497E+00	136.0	2.5884E+00	1.5330E+00
16.0	8.9841E-01	1.0709E+00	78.0	7.0755E-01	1.0391E+00	138.0	2.7222E+00	1.6672E+00
18.0	8.6588E-01	1.0478E+00	80.0	7.0418E-01	1.0288E+00	140.0	2.4690E+00	1.8573E+00
20.0	8.4668E-01	1.0264E+00	82.0	7.7797E-01	1.0224E+00	142.0	1.8872E+00	2.0911E+00
22.0	8.4327E-01	1.0076E+00	84.0	9.1781E-01	1.0230E+00	144.0	1.1414E+00	2.3357E+00
24.0	8.5687E-01	9.9262E-01	86.0	1.0932E+00	1.0320E+00	146.0	4.6348E-01	2.5384E+00
26.0	8.8698E-01	9.8211E-01	88.0	1.2601E+00	1.0486E+00	148.0	9.5625E-02	2.6416E+00
28.0	9.3109E-01	9.7659E-01	90.0	1.3710E+00	1.0703E+00	150.0	2.3759E-01	2.6095E+00
30.0	9.8453E-01	9.7609E-01	92.0	1.3881E+00	1.0927E+00	152.0	1.0156E+00	2.4651E+00
32.0	1.0407E+00	9.8022E-01	94.0	1.2958E+00	1.1114E+00	154.0	2.4852E+00	2.3277E+00
34.0	1.0917E+00	9.8828E-01	96.0	1.1084E+00	1.1288E+00	156.0	4.6642E+00	2.4383E+00
36.0	1.1295E+00	9.9837E-01	98.0	8.6963E-01	1.1254E+00	158.0	7.5811E+00	3.1587E+00
38.0	1.1469E+00	1.0035E+00	100.0	6.4470E-01	1.1202E+00	160.0	1.1313E+01	4.9337E+00
40.0	1.1397E+00	1.0198E+00	102.0	5.0288E-01	1.1110E+00	162.0	1.5932E+01	8.2139E+00
42.0	1.1074E+00	1.0276E+00	104.0	4.9778E-01	1.1031E+00	164.0	2.1763E+01	1.3350E+01
44.0	1.0539E+00	1.0317E+00	106.0	6.4772E-01	1.1018E+00	166.0	2.8707E+01	2.0477E+01
46.0	9.8783E-01	1.0316E+00	108.0	9.2616E-01	1.1111E+00	168.0	3.6741E+01	2.9421E+01
48.0	9.2130E-01	1.0274E+00	110.0	1.2634E+00	1.1325E+00	170.0	4.5545E+01	3.9653E+01
50.0	8.6768E-01	1.0200E+00	112.0	1.5627E+00	1.1647E+00	172.0	5.4531E+01	5.0317E+01
52.0	8.3949E-01	1.0110E+00	114.0	1.7275E+00	1.2037E+00	174.0	6.2897E+01	6.0327E+01
54.0	8.4533E-01	1.0023E+00	116.0	1.6922E+00	1.2447E+00	176.0	6.9742E+01	6.8536E+01
56.0	8.8752E-01	9.9616E-01	118.0	1.4472E+00	1.2828E+00	178.0	7.4241E+01	7.3929E+01
58.0	9.6071E-01	9.9420E-01	120.0	1.0494E+00	1.3147E+00	180.0	7.5810E+01	7.5810E+01
60.0	1.0520E+00	9.9741E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BI-STATIC SCATTERING FROM CONDUCTING SPHERE

KA = 8.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0854E+00	1.0854E+00	62.0	9.7571E-01	9.9841E-01	122.0	9.2343E-01	1.3360E+00
2.0	1.0941E+00	1.0853E+00	64.0	1.0751E+00	1.0035E+00	124.0	4.824E-01	1.3615E+00
4.0	1.0802E+00	1.0840E+00	66.0	1.1654E+00	1.0137E+00	126.0	1.5946E-01	1.3791E+00
6.0	1.0733E+00	1.0840E+00	68.0	1.2229E+00	1.0272E+00	128.0	1.9577E-01	1.3903E+00
8.0	1.0628E+00	1.0823E+00	70.0	1.3296E+00	1.0413E+00	130.0	5.1419E-01	1.3986E+00
10.0	1.0482E+00	1.0794E+00	72.0	1.1777E+00	1.0530E+00	132.0	1.094E+00	1.4109E+00
12.0	1.0291E+00	1.0749E+00	74.0	1.0738E+00	1.0598E+00	134.0	1.7949E+00	1.4391E+00
14.0	1.0052E+00	1.0686E+00	76.0	9.3908E-01	1.0603E+00	136.0	2.4127E+00	1.4998E+00
16.0	9.7739E-01	1.0602E+00	78.0	8.0595E-01	1.0546E+00	138.0	2.7495E+00	1.6108E+00
18.0	9.4715E-01	1.0439E+00	80.0	7.1065E-01	1.0447E+00	140.0	2.684E+00	1.7847E+00
20.0	9.1728E-01	1.0379E+00	82.0	6.8383E-01	1.0341E+00	142.0	2.2310E+00	2.0185E+00
22.0	8.9159E-01	1.0248E+00	84.0	7.4106E-01	1.0266E+00	144.0	1.5118E+00	2.2855E+00
24.0	8.7447E-01	1.0114E+00	86.0	8.7602E-01	1.0258E+00	146.0	7.4741E-01	2.5331E+00
26.0	8.7017E-01	9.9890E-01	88.0	1.0591E+00	1.0336E+00	148.0	2.0603E-01	2.6939E+00
28.0	8.8188E-01	9.8826E-01	90.0	1.2428E+00	1.0497E+00	150.0	1.2914E-01	2.7119E+00
30.0	9.1078E-01	9.8060E-01	92.0	1.3731E+00	1.0715E+00	152.0	6.8945E-01	2.5832E+00
32.0	9.5527E-01	9.7677E-01	94.0	1.4049E+00	1.0947E+00	154.0	1.9797E+00	2.4017E+00
34.0	1.0107E+00	9.7721E-01	96.0	1.3174E+00	1.1145E+00	156.0	4.030E+00	2.3960E+00
36.0	1.0697E+00	9.8188E-01	98.0	1.1235E+00	1.1269E+00	158.0	6.9014E+00	2.9382E+00
38.0	1.1228E+00	9.9016E-01	100.0	8.7163E-01	1.1303E+00	160.0	1.0651E+01	4.5121E+00
40.0	1.1606E+00	1.0009E+00	102.0	6.3413E-01	1.1258E+00	162.0	1.5427E+01	7.6333E+00
42.0	1.1748E+00	1.0125E+00	104.0	4.8876E-01	1.1174E+00	164.0	2.1345E+01	1.2731E+01
44.0	1.1607E+00	1.0231E+00	106.0	4.9389E-01	1.1107E+00	166.0	2.8658E+01	2.0011E+01
46.0	1.1183E+00	1.0312E+00	108.0	6.6692E-01	1.1110E+00	168.0	3.7151E+01	2.9341E+01
48.0	1.0532E+00	1.0353E+00	110.0	9.7304E-01	1.1225E+00	170.0	4.6546E+01	4.0186E+01
50.0	9.7612E-01	1.0348E+00	112.0	1.3295E+00	1.1462E+00	172.0	5.6214E+01	5.1623E+01
52.0	9.0153E-01	1.0300E+00	114.0	1.6268E+00	1.1805E+00	174.0	6.5274E+01	6.2456E+01
54.0	8.4504E-01	1.0220E+00	116.0	1.7617E+00	1.2212E+00	176.0	7.2725E+01	7.1397E+01
56.0	8.2015E-01	1.0126E+00	118.0	1.6725E+00	1.2635E+00	178.0	7.7639E+01	7.7295E+01
58.0	8.3504E-01	1.0042E+00	120.0	1.3660E+00	1.3028E+00	180.0	7.9356E+01	7.9356E+01
60.0	8.8989E-01	9.9887E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = 8.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.1325E-01	9.1325E-01	62.0	8.3593E-01	1.0026E+00	122.0	1.2499E+00	1.3260E+00	122.0	1.2499E+00	1.3260E+00
2.0	9.1870E-01	9.1533E-01	64.0	9.1183E-01	9.9922E-01	124.0	7.6505E-01	1.3607E+00	124.0	7.6505E-01	1.3607E+00
4.0	9.3449E-01	9.2143E-01	66.0	1.0151E+00	1.0015E+00	126.0	3.4588E-01	1.3874E+00	126.0	3.4588E-01	1.3874E+00
6.0	9.5887E-01	9.3112E-01	68.0	1.1224E+00	1.0095E+00	128.0	1.4854E-01	1.4057E+00	128.0	1.4854E-01	1.4057E+00
8.0	9.8903E-01	9.4371E-01	70.0	1.2063E+00	1.0220E+00	130.0	2.7917E-01	1.4167E+00	130.0	2.7917E-01	1.4167E+00
10.0	1.0212E+00	9.5830E-01	72.0	1.2420E+00	1.0365E+00	132.0	7.4285E-01	1.4249E+00	132.0	7.4285E-01	1.4249E+00
12.0	1.0511E+00	9.7380E-01	74.0	1.2144E+00	1.0501E+00	134.0	1.4248E+00	1.4406E+00	134.0	1.4248E+00	1.4406E+00
14.0	1.0741E+00	9.8901E-01	76.0	1.1239E+00	1.0593E+00	136.0	2.1416E+00	1.4804E+00	136.0	2.1416E+00	1.4804E+00
16.0	1.0863E+00	1.0027E+00	78.0	9.8882E-01	1.0622E+00	138.0	2.6644E+00	1.5659E+00	138.0	2.6644E+00	1.5659E+00
18.0	1.0851E+00	1.0139E+00	80.0	8.4250E-01	1.0585E+00	140.0	2.8135E+00	1.7171E+00	140.0	2.8135E+00	1.7171E+00
20.0	1.0698E+00	1.0216E+00	82.0	7.2619E-01	1.0497E+00	142.0	2.5269E+00	1.9409E+00	142.0	2.5269E+00	1.9409E+00
22.0	1.0420E+00	1.0254E+00	84.0	6.7774E-01	1.0391E+00	144.0	1.8805E+00	2.2201E+00	144.0	1.8805E+00	2.2201E+00
24.0	1.0086E+00	1.0252E+00	86.0	7.1980E-01	1.0311E+00	146.0	1.0769E+00	2.5060E+00	146.0	1.0769E+00	2.5060E+00
26.0	9.6764E-01	1.0213E+00	88.0	8.5056E-01	1.0294E+00	148.0	3.9258E-01	2.7250E+00	148.0	3.9258E-01	2.7250E+00
28.0	9.3415E-01	1.0147E+00	90.0	1.0408E+00	1.0365E+00	150.0	1.0630E-01	2.8027E+00	150.0	1.0630E-01	2.8027E+00
30.0	9.1248E-01	1.0064E+00	92.0	1.2387E+00	1.0525E+00	152.0	4.3843E-01	2.7069E+00	152.0	4.3843E-01	2.7069E+00
32.0	9.0809E-01	9.9814E-01	94.0	1.3836E+00	1.0747E+00	154.0	1.5245E+00	2.5017E+00	154.0	1.5245E+00	2.5017E+00
34.0	9.2366E-01	9.9126E-01	96.0	1.4233E+00	1.0986E+00	156.0	3.4324E+00	2.3959E+00	156.0	3.4324E+00	2.3959E+00
36.0	9.5829E-01	9.8713E-01	98.0	1.3331E+00	1.1192E+00	158.0	6.2130E+00	2.7651E+00	158.0	6.2130E+00	2.7651E+00
38.0	1.0071E+00	9.8667E-01	100.0	1.1270E+00	1.1322E+00	160.0	9.9544E+00	4.1279E+00	160.0	9.9544E+00	4.1279E+00
40.0	1.0620E+00	9.9017E-01	102.0	8.5936E-01	1.1361E+00	162.0	1.4808E+01	7.0656E+00	162.0	1.4808E+01	7.0656E+00
42.0	1.1122E+00	9.9727E-01	104.0	6.1205E-01	1.1321E+00	164.0	2.0957E+01	1.2092E+01	164.0	2.0957E+01	1.2092E+01
44.0	1.1471E+00	1.0069E+00	106.0	4.7090E-01	1.1245E+00	166.0	2.8533E+01	1.9494E+01	166.0	2.8533E+01	1.9494E+01
46.0	1.1573E+00	1.0174E+00	108.0	4.9718E-01	1.1192E+00	168.0	3.7499E+01	2.9193E+01	168.0	3.7499E+01	2.9193E+01
48.0	1.1377E+00	1.0270E+00	110.0	7.0317E-01	1.1218E+00	170.0	4.7493E+01	4.0653E+01	170.0	4.7493E+01	4.0653E+01
50.0	1.0887E+00	1.0338E+00	112.0	1.0413E+00	1.1359E+00	172.0	5.7875E+01	5.2890E+01	172.0	5.7875E+01	5.2890E+01
52.0	1.0173E+00	1.0365E+00	114.0	1.4127E+00	1.1623E+00	174.0	6.7668E+01	6.4587E+01	174.0	6.7668E+01	6.4587E+01
54.0	9.3623E-01	1.0346E+00	116.0	1.6946E+00	1.1989E+00	176.0	7.5764E+01	7.4303E+01	176.0	7.5764E+01	7.4303E+01
56.0	8.6226E-01	1.0285E+00	118.0	1.7806E+00	1.2415E+00	178.0	8.1119E+01	8.0741E+01	178.0	8.1119E+01	8.0741E+01
58.0	8.1275E-01	1.0197E+00	120.0	1.6204E+00	1.2853E+00	180.0	8.2994E+01	8.2994E+01	180.0	8.2994E+01	8.2994E+01
60.0	8.0175E-01	1.0102E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA = 9.0

NORMALIZED CROSS SECTION E-PLANE		ANGLE	NORMALIZED CROSS SECTION H-PLANE		ANGLE	NORMALIZED CROSS SECTION E-PLANE		ANGLE	NORMALIZED CROSS SECTION H-PLANE	
ANGLE			ANGLE			ANGLE			ANGLE	
0.0	8.4521E-01		62.0	8.176E-01		122.0	1.5273E+00		1.3098E+00	
2.0	8.5152E-01		64.0	8.1228E-01		124.0	1.0831E+00		1.3523E+00	
4.0	8.7016E-01		66.0	8.7265E-01		126.0	5.8626E-01		1.3885E+00	
6.0	9.0017E-01		68.0	9.7272E-01		128.0	2.2175E-01		1.4160E+00	
8.0	9.3975E-01		70.0	1.0900E+00		130.0	1.4956E-01		1.4337E+00	
10.0	9.8006E-01		72.0	1.1940E+00		132.0	4.4300E-01		1.4431E+00	
12.0	1.0352E+00		74.0	1.2539E+00		134.0	1.0523E+00		1.4514E+00	
14.0	1.0822E+00		76.0	1.2475E+00		136.0	1.8100E-00		1.4739E+00	
16.0	1.1219E+00		78.0	1.1691E+00		138.0	2.4805E+00		1.5340E+00	
18.0	1.1490E+00		80.0	1.0337E+00		140.0	2.8387E+00		1.6576E+00	
20.0	1.1596E+00		82.0	8.7563E-01		142.0	2.7507E+00		1.8624E+00	
22.0	1.1512E+00		84.0	7.4062E-01		144.0	2.2282E+00		2.1437E+00	
24.0	1.1243E+00		86.0	6.7334E-01		146.0	1.4351E+00		2.4578E+00	
26.0	1.0817E+00		88.0	7.0292E-01		148.0	6.4463E-01		2.7321E+00	
28.0	1.0293E+00		90.0	8.3128E-01		150.0	1.6501E-01		2.8786E+00	
30.0	9.7451E-01		92.0	1.0286E+00		152.0	2.6401E-01		2.8285E+00	
32.0	9.2601E-01		94.0	1.2384E+00		154.0	1.1287E+00		2.6204E+00	
34.0	8.9201E-01		96.0	1.3929E+00		156.0	2.8607E+00		2.4335E+00	
36.0	8.7892E-01		98.0	1.4337E+00		158.0	5.5319E+00		2.6387E+00	
38.0	8.9001E-01		100.0	1.3337E+00		160.0	9.2403E+00		3.7836E+00	
40.0	9.2436E-01		102.0	1.1106E+00		162.0	1.4150E+01		6.5144E+00	
42.0	9.7652E-01		104.0	8.2706E-01		164.0	2.0464E+01		1.1434E+01	
44.0	1.0563E+00		106.0	5.7544E-01		166.0	2.8341E+01		1.8924E+01	
46.0	1.0932E+00		108.0	4.4888E-01		168.0	3.7759E+01		2.8967E+01	
48.0	1.1325E+00		110.0	5.0439E-01		170.0	4.8331E+01		4.1038E+01	
50.0	1.1441E+00		112.0	7.5648E-01		172.0	5.9497E+01		5.4032E+01	
52.0	1.1221E+00		114.0	1.1282E+00		174.0	7.0054E+01		6.6688E+01	
54.0	1.0680E+00		116.0	1.5060E+00		176.0	7.8826E+01		7.7223E+01	
56.0	9.9115E-01		118.0	1.7553E+00		178.0	8.4649E+01		8.4232E+01	
58.0	9.0777E-01		120.0	1.7725E+00		180.0	8.6691E+01		8.6691E+01	
60.0	8.3812E-01									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 9.2

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE			E-PLANE		
ANGLE	ANGLE	CROSS SECTION	ANGLE	ANGLE	CROSS SECTION	ANGLE	ANGLE	CROSS SECTION	ANGLE	ANGLE	CROSS SECTION
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0.0	62.0	9.3995E-01	62.0	8.8047E-01	1.0296E+00	122.0	1.7322E+00	1.2893E+00	122.0	1.7322E+00	1.2893E+00
2.0	64.0	9.4028E-01	64.0	8.1904E-01	1.0216E+00	124.0	1.3918E+00	1.3371E+00	124.0	1.3918E+00	1.3371E+00
4.0	66.0	9.4181E-01	66.0	8.0355E-01	1.0127E+00	126.0	8.8804E-01	1.3816E+00	126.0	8.8804E-01	1.3816E+00
6.0	68.0	9.4394E-01	68.0	8.4365E-01	1.0059E+00	128.0	4.0333E-01	1.4192E+00	128.0	4.0333E-01	1.4192E+00
8.0	70.0	9.5449E-01	70.0	9.3420E-01	1.0038E+00	130.0	1.3682E-01	1.4464E+00	130.0	1.3682E-01	1.4464E+00
10.0	72.0	9.6901E-01	72.0	1.0545E+00	1.0079E+00	132.0	2.2952E-01	1.4617E+00	132.0	2.2952E-01	1.4617E+00
12.0	74.0	9.9027E-01	74.0	1.1723E+00	1.0182E+00	134.0	7.0354E-01	1.4684E+00	134.0	7.0354E-01	1.4684E+00
14.0	76.0	1.0175E+00	76.0	1.2517E+00	1.0327E+00	136.0	1.4415E+00	1.4787E+00	136.0	1.4415E+00	1.4787E+00
16.0	78.0	1.0485E+00	78.0	1.2638E+00	1.0482E+00	138.0	2.2165E+00	1.5158E+00	138.0	2.2165E+00	1.5158E+00
18.0	80.0	1.0798E+00	80.0	1.1968E+00	1.0609E+00	140.0	2.7678E+00	1.6095E+00	140.0	2.7678E+00	1.6095E+00
20.0	82.0	1.1066E+00	82.0	1.0622E+00	1.0676E+00	142.0	2.8954E+00	1.7879E+00	142.0	2.8954E+00	1.7879E+00
22.0	84.0	1.1244E+00	84.0	8.9487E-01	1.0670E+00	144.0	2.5376E+00	2.0583E+00	144.0	2.5376E+00	2.0583E+00
24.0	86.0	1.1291E+00	86.0	7.4472E-01	1.0600E+00	146.0	1.8017E+00	2.3914E+00	146.0	1.8017E+00	2.3914E+00
26.0	88.0	1.1179E+00	88.0	6.8275E-01	1.0499E+00	148.0	9.4854E-01	2.7148E+00	148.0	9.4854E-01	2.7148E+00
28.0	90.0	1.0903E+00	90.0	6.8402E-01	1.0414E+00	150.0	2.9972E-01	2.9274E+00	150.0	2.9972E-01	2.9274E+00
30.0	92.0	1.0484E+00	92.0	8.1341E-01	1.0391E+00	152.0	1.7136E-01	2.9417E+00	152.0	1.7136E-01	2.9417E+00
32.0	94.0	9.9708E-01	94.0	1.0196E+00	1.0461E+00	154.0	8.0067E-01	2.7512E+00	154.0	8.0067E-01	2.7512E+00
34.0	96.0	9.4357E-01	96.0	1.2405E+00	1.0626E+00	156.0	2.3351E+00	2.5042E+00	156.0	2.3351E+00	2.5042E+00
36.0	98.0	8.9664E-01	98.0	1.4003E+00	1.0859E+00	158.0	4.8720E+00	2.5583E+00	158.0	4.8720E+00	2.5583E+00
38.0	100.0	8.6523E-01	100.0	1.4369E+00	1.1110E+00	160.0	8.5235E+00	3.4829E+00	160.0	8.5235E+00	3.4829E+00
40.0	102.0	8.5669E-01	102.0	1.3211E+00	1.1321E+00	162.0	1.3465E+01	5.9865E+00	162.0	1.3465E+01	5.9865E+00
42.0	104.0	8.7495E-01	104.0	1.0771E+00	1.1450E+00	164.0	1.9923E+01	1.0767E+01	164.0	1.9923E+01	1.0767E+01
44.0	106.0	9.1900E-01	106.0	7.7874E-01	1.1485E+00	166.0	2.8095E+01	1.8306E+01	166.0	2.8095E+01	1.8306E+01
46.0	108.0	9.8219E-01	108.0	5.2983E-01	1.1493E+00	168.0	3.7955E+01	2.8665E+01	168.0	3.7955E+01	2.8665E+01
48.0	110.0	1.0527E+00	110.0	4.2959E-01	1.1394E+00	170.0	4.9202E+01	4.1339E+01	170.0	4.9202E+01	4.1339E+01
50.0	112.0	1.1155E+00	112.0	5.3496E-01	1.1382E+00	172.0	6.1073E+01	5.5227E+01	172.0	6.1073E+01	5.5227E+01
52.0	114.0	1.1553E+00	114.0	8.3316E-01	1.1466E+00	174.0	7.2426E+01	6.8759E+01	174.0	7.2426E+01	6.8759E+01
54.0	116.0	1.1802E+00	116.0	1.2370E+00	1.1675E+00	176.0	8.1908E+01	8.0152E+01	176.0	8.1908E+01	8.0152E+01
56.0	118.0	1.1258E+00	118.0	1.0294E+00	1.2003E+00	178.0	8.8224E+01	8.7786E+01	178.0	8.8224E+01	8.7786E+01
58.0	120.0	1.0568E+00	120.0	1.6044E+00	1.2423E+00	180.0	9.0443E+01	9.0443E+01	180.0	9.0443E+01	9.0443E+01
60.0		9.6777E-01									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 9.4

ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE	ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE	ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE
0.0	1.0962E+00	1.0962E+00	62.0	1.0155E+00	1.0372E+00	122.0	1.8324E+00	1.2674E+00
2.0	1.0895E+00	1.0937E+00	54.0	9.1587E-01	1.0347E+00	124.0	1.6495E+00	1.3174E+00
4.0	1.0707E+00	1.0866E+00	56.0	8.3295E-01	1.0279E+00	126.0	1.2103E+00	1.3681E+00
6.0	1.0427E+00	1.0754E+00	68.0	7.9300E-01	1.0190E+00	128.0	6.6827E-01	1.4149E+00
8.0	1.0102E+00	1.0612E+00	70.0	8.1203E-01	1.0110E+00	130.0	2.3919E-01	1.4530E+00
10.0	9.7851E-01	1.0452E+00	72.0	8.9054E-01	1.0071E+00	132.0	1.2166E-01	1.4778E+00
12.0	9.5276E-01	1.0239E+00	74.0	1.0108E+00	1.0094E+00	134.0	4.1549E-01	1.4885E+00
14.0	9.3712E-01	1.0137E+00	76.0	1.1395E+00	1.0183E+00	136.0	1.0711E+00	1.4925E+00
16.0	9.3417E-01	1.0011E+00	78.0	1.2366E+00	1.0323E+00	138.0	1.8937E+00	1.5106E+00
18.0	9.4452E-01	9.9185E-01	80.0	1.2667E+00	1.0482E+00	140.0	2.6067E+00	1.5751E+00
20.0	9.6665E-01	9.8677E-01	82.0	1.2116E+00	1.0619E+00	142.0	2.9517E+00	1.7218E+00
22.0	9.9703E-01	9.8538E-01	84.0	1.0794E+00	1.0699E+00	144.0	2.7896E+00	1.9722E+00
24.0	1.0304E+00	9.8911E-01	86.0	9.0502E-01	1.0703E+00	146.0	2.1618E+00	2.3116E+00
26.0	1.0606E+00	9.9532E-01	88.0	7.4283E-01	1.0639E+00	148.0	1.2878E+00	2.6754E+00
28.0	1.0812E+00	1.0034E+00	90.0	6.5027E-01	1.0540E+00	150.0	5.0149E-01	2.9562E+00
30.0	1.0868E+00	1.0117E+00	92.0	6.6808E-01	1.0456E+00	152.0	1.5671E-01	3.0422E+00
32.0	1.0745E+00	1.0189E+00	94.0	8.0327E-01	1.0435E+00	154.0	5.4483E-01	2.8885E+00
34.0	1.0444E+00	1.0235E+00	96.0	1.0215E+00	1.0512E+00	156.0	1.8622E+00	2.6035E+00
36.0	1.0005E+00	1.0247E+00	98.0	1.2537E+00	1.0686E+00	158.0	4.2305E+00	2.5227E+00
38.0	9.5095E-01	1.0223E+00	100.0	1.4163E+00	1.0928E+00	160.0	7.8045E+00	3.2288E+00
40.0	9.0594E-01	1.0166E+00	102.0	1.4408E+00	1.1182E+00	162.0	1.2751E+01	5.4891E+00
42.0	8.7666E-01	1.0089E+00	104.0	1.3014E+00	1.1391E+00	164.0	1.9327E+01	1.0098E+01
44.0	8.7324E-01	1.0008E+00	106.0	1.0317E+00	1.1514E+00	166.0	2.7756E+01	1.7652E+01
46.0	8.9722E-01	9.9417E-01	108.0	7.1991E-01	1.1544E+00	168.0	3.8074E+01	2.8301E+01
48.0	9.4960E-01	9.9076E-01	110.0	4.8245E-01	1.1511E+00	170.0	4.9955E+01	4.1572E+01
50.0	1.0202E+00	9.9163E-01	112.0	4.2246E-01	1.1471E+00	172.0	6.2807E+01	5.6313E+01
52.0	1.0938E+00	9.9698E-01	114.0	5.8721E-01	1.1488E+00	174.0	7.4797E+01	7.0819E+01
54.0	1.1524E+00	1.0059E+00	116.0	9.4160E-01	1.1610E+00	176.0	9.5032E+01	8.3119E+01
56.0	1.1792E+00	1.0167E+00	118.0	1.3709E+00	1.1857E+00	178.0	9.1876E+01	9.1378E+01
58.0	1.1637E+00	1.0270E+00	120.0	1.7162E+00	1.2222E+00	180.0	9.4284E+01	9.4284E+01
60.0	1.1054E+00	1.0344E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA= 9.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.1594E+00	1.1594E+00	62.0	1.1299E+00	1.0336E+00	122.0	1.8127E+00	1.2470E+00
2.0	1.1517E+00	1.1569E+00	64.0	1.0470E+00	1.0384E+00	124.0	1.8179E+00	1.2959E+00
4.0	1.1294E+00	1.1495E+00	66.0	9.4248E-01	1.0379E+00	126.0	1.5071E+00	1.3498E+00
6.0	1.0948E+00	1.1374E+00	68.0	8.4487E-01	1.0324E+00	128.0	9.7914E-01	1.4040E+00
8.0	1.0516E+00	1.1215E+00	70.0	7.8461E-01	1.0238E+00	130.0	4.3977E-01	1.4528E+00
10.0	1.0043E+00	1.1025E+00	72.0	7.8455E-01	1.0150E+00	132.0	1.2550E-01	1.4894E+00
12.0	9.5790E-01	1.0814E+00	74.0	8.5140E-01	1.0097E+00	134.0	2.1070E-01	1.5087E+00
14.0	9.1735E-01	1.0596E+00	76.0	9.7109E-01	1.0105E+00	136.0	7.2631E-01	1.5130E+00
16.0	8.8725E-01	1.0382E+00	78.0	1.1102E+00	1.0183E+00	138.0	1.5333E+00	1.5179E+00
18.0	8.7138E-01	1.0187E+00	80.0	1.2242E+00	1.0319E+00	140.0	2.3635E+00	1.5556E+00
20.0	8.7225E-01	1.0023E+00	82.0	1.2713E+00	1.0482E+00	142.0	2.9127E+00	1.6678E+00
22.0	8.9052E-01	9.8994E-01	84.0	1.2270E+00	1.0627E+00	144.0	2.9670E+00	1.8895E+00
24.0	9.2455E-01	9.8240E-01	86.0	1.0958E+00	1.0717E+00	146.0	2.4884E+00	2.2230E+00
26.0	9.7011E-01	9.7989E-01	88.0	9.1390E-01	1.0728E+00	148.0	1.6436E+00	2.6164E+00
28.0	1.0205E+00	9.8212E-01	90.0	7.4090E-01	1.0689E+00	150.0	7.5904E-01	2.9615E+00
30.0	1.0674E+00	9.8823E-01	92.0	6.4123E-01	1.0573E+00	152.0	2.1747E-01	3.1262E+00
32.0	1.1020E+00	9.9686E-01	94.0	6.098E-01	1.0493E+00	154.0	3.6244E-01	3.0267E+00
34.0	1.1168E+00	1.0063E+00	96.0	8.0756E-01	1.0480E+00	156.0	1.4446E+00	2.7266E+00
36.0	1.1075E+00	1.0148E+00	98.0	1.0413E+00	1.0559E+00	158.0	3.6332E+00	2.5297E+00
38.0	1.0747E+00	1.0208E+00	100.0	1.2835E+00	1.0757E+00	160.0	7.0833E+00	3.0229E+00
40.0	1.0241E+00	1.0232E+00	102.0	1.4419E+00	1.1009E+00	162.0	1.2005E+01	5.0272E+00
42.0	9.6634E-01	1.0216E+00	104.0	1.4444E+00	1.1266E+00	164.0	1.8674E+01	9.4370E+00
44.0	9.1496E-01	1.0166E+00	106.0	1.2715E+00	1.1470E+00	166.0	2.7353E+01	1.6970E+01
46.0	8.8343E-01	1.0094E+00	108.0	9.7141E-01	1.1584E+00	168.0	3.8112E+01	2.7882E+01
48.0	8.8174E-01	1.0020E+00	110.0	6.5039E-01	1.1609E+00	170.0	5.0640E+01	4.1743E+01
50.0	9.1334E-01	9.9647E-01	112.0	4.3761E-01	1.1591E+00	172.0	6.4106E+01	5.7357E+01
52.0	9.7329E-01	9.9437E-01	114.0	4.3535E-01	1.1561E+00	174.0	7.7176E+01	7.2879E+01
54.0	1.0483E+00	9.9699E-01	116.0	6.7289E-01	1.1613E+00	176.0	8.8213E+01	8.6135E+01
56.0	1.1193E+00	1.0039E+00	118.0	1.0843E+00	1.1776E+00	178.0	9.5620E+01	9.5074E+01
58.0	1.1859E+00	1.0138E+00	120.0	1.5230E+00	1.2066E+00	180.0	9.8231E+01	9.8231E+01
60.0	1.1716E+00	1.0246E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

$\kappa_A = 9.8$

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=10.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.2923E-01	9.2923E-01	62.0	1.1197E+00	1.0067E+00	122.0	1.4445E+00	1.2187E+00
2.0	9.3485E-01	9.3131E-01	64.0	1.1719E+00	1.0172E+00	124.0	1.8076E+00	1.2571E+00
4.0	9.5093E-01	9.3755E-01	66.0	1.1724E+00	1.0282E+00	126.0	1.8714E+00	1.3073E+00
6.0	9.7513E-01	9.4725E-01	68.0	1.1154E+00	1.0366E+00	128.0	1.5763E+00	1.3668E+00
8.0	1.0038E+00	9.5954E-01	70.0	1.0132E+00	1.0400E+00	130.0	1.0266E+00	1.4310E+00
10.0	1.0321E+00	9.7331E-01	72.0	8.9565E-01	1.0376E+00	132.0	4.3752E-01	1.4914E+00
12.0	1.0500E+00	9.8711E-01	74.0	8.0180E-01	1.0305E+00	134.0	1.0375E-01	1.5370E+00
14.0	1.0680E+00	9.9978E-01	76.0	7.6780E-01	1.0216E+00	136.0	2.2012E-01	1.5586E+00
16.0	1.0873E+00	1.0109E+00	78.0	8.1315E-01	1.0149E+00	138.0	8.1246E-01	1.5580E+00
18.0	1.0537E+00	1.0107E+00	80.0	9.3096E-01	1.0140E+00	140.0	1.7031E+00	1.5578E+00
20.0	1.0279E+00	1.0106E+00	82.0	1.0865E+00	1.0207E+00	142.0	2.5657E+00	1.6029E+00
22.0	9.9527E-01	1.0186E+00	84.0	1.2259E+00	1.0343E+00	144.0	3.0639E+00	1.7496E+00
24.0	9.6293E-01	1.0143E+00	86.0	1.2941E+00	1.0514E+00	146.0	2.9859E+00	2.0368E+00
26.0	9.3855E-01	1.0078E+00	88.0	1.2559E+00	1.0672E+00	148.0	2.3471E+00	2.4507E+00
28.0	9.2876E-01	1.0006E+00	90.0	1.1133E+00	1.0773E+00	150.0	1.3976E+00	2.9002E+00
30.0	9.3746E-01	9.9428E-01	92.0	9.0952E-01	1.0790E+00	152.0	5.4239E-01	3.2888E+00
32.0	9.6455E-01	9.9028E-01	94.0	7.1671E-01	1.0733E+00	154.0	2.1737E-01	3.2811E+00
34.0	1.0054E+00	9.8955E-01	96.0	6.1970E-01	1.0643E+00	156.0	7.9166E-01	3.0186E+00
36.0	1.0516E+00	9.9253E-01	98.0	6.6440E-01	1.0579E+00	158.0	2.5342E+00	2.6553E+00
38.0	1.0920E+00	9.9866E-01	100.0	8.5207E-01	1.0596E+00	160.0	5.6843E+00	2.7544E+00
40.0	1.1158E+00	1.0068E+00	102.0	1.1218E+00	1.0723E+00	162.0	1.0456E+01	4.2207E+00
42.0	1.1147E+00	1.0152E+00	104.0	1.3697E+00	1.0947E+00	164.0	1.7236E+01	8.1481E+00
44.0	1.0856E+00	1.0220E+00	106.0	1.4874E+00	1.1279E+00	166.0	2.6354E+01	1.5524E+01
46.0	1.0324E+00	1.0257E+00	108.0	1.4082E+00	1.1473E+00	168.0	3.7969E+01	2.6860E+01
48.0	9.6576E-01	1.0253E+00	110.0	1.1428E+00	1.1655E+00	170.0	5.1808E+01	4.1859E+01
50.0	9.0170E-01	1.0209E+00	112.0	7.8561E-01	1.1744E+00	172.0	6.6970E+01	5.9258E+01
52.0	8.5776E-01	1.0137E+00	114.0	4.8463E-01	1.1760E+00	174.0	8.1912E+01	7.6924E+01
54.0	8.4835E-01	1.0058E+00	116.0	3.8307E-01	1.1756E+00	176.0	9.4675E+01	9.2237E+01
56.0	8.7998E-01	9.9952E-01	118.0	5.5407E-01	1.1796E+00	178.0	1.0330E+02	1.0266E+02
58.0	9.4802E-01	9.9699E-01	120.0	9.5787E-01	1.1930E+00	180.0	1.0636E+02	1.0836E+02
60.0	1.0362E+00	9.9945E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BI-STATIC SCATTERING FROM CONDUCTING SPHERE

KA=10.2

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	8.6854E-01	8.6854E-01	62.0	1.0112E+00	9.9921E-01	122.0	1.1506E+00	1.2121E+00
2.0	8.7547E-01	8.7083E-01	64.0	1.1053E+00	1.0053E+00	124.0	1.6306E+00	1.2430E+00
4.0	8.9576E-01	8.7751E-01	66.0	1.1742E+00	1.0150E+00	126.0	1.8977E+00	1.2872E+00
6.0	9.2790E-01	8.8858E-01	68.0	1.1916E+00	1.0270E+00	128.0	1.7917E+00	1.3443E+00
8.0	9.6875E-01	9.0325E-01	70.0	1.1453E+00	1.0367E+00	130.0	1.3338E+00	1.4112E+00
10.0	1.0141E+00	9.2086E-01	72.0	1.0441E+00	1.0417E+00	132.0	7.0865E-01	1.4806E+00
12.0	1.0593E+00	9.4040E-01	74.0	9.1731E-01	1.0405E+00	134.0	2.0630E-01	1.5404E+00
14.0	1.0974E+00	9.6055E-01	76.0	8.0963E-01	1.0341E+00	136.0	9.8101E-02	1.5768E+00
16.0	1.1223E+00	9.8019E-01	78.0	7.6140E-01	1.0253E+00	138.0	5.0712E-01	1.5837E+00
18.0	1.1313E+00	9.9761E-01	80.0	7.9834E-01	1.0183E+00	140.0	1.3352E+00	1.5752E+00
20.0	1.1295E+00	1.0116E+00	82.0	9.1620E-01	1.0170E+00	142.0	2.2866E+00	1.5927E+00
22.0	1.0915E+00	1.0211E+00	84.0	1.0786E+00	1.0235E+00	144.0	2.9853E+00	1.6983E+00
24.0	1.0483E+00	1.0258E+00	86.0	1.2264E+00	1.0373E+00	146.0	3.1338E+00	1.9482E+00
26.0	9.3976E-01	1.0255E+00	88.0	1.2985E+00	1.0548E+00	148.0	2.6637E+00	2.3519E+00
28.0	9.5317E-01	1.0212E+00	90.0	1.2559E+00	1.0709E+00	150.0	1.7504E+00	2.8360E+00
30.0	9.1625E-01	1.0140E+00	92.0	1.1017E+00	1.0809E+00	152.0	7.8901E-01	3.2427E+00
32.0	9.0245E-01	1.0058E+00	94.0	8.8594E-01	1.0823E+00	154.0	2.5281E-01	3.3863E+00
34.0	9.0974E-01	9.9838E-01	96.0	6.9149E-01	1.0763E+00	156.0	5.6605E-01	3.1747E+00
36.0	9.3948E-01	9.9341E-01	98.0	6.0370E-01	1.0675E+00	158.0	2.0545E+00	2.7648E+00
38.0	9.8559E-01	9.9202E-01	100.0	6.7363E-01	1.0625E+00	160.0	4.9977E+00	2.6898E+00
40.0	1.0376E+00	9.9453E-01	102.0	8.9062E-01	1.0665E+00	162.0	9.6777E+00	3.8821E+00
42.0	1.0825E+00	1.0004E+00	104.0	1.1778E+00	1.0817E+00	164.0	1.6472E+01	7.5309E+00
44.0	1.1074E+00	1.0042E+00	106.0	1.4168E+00	1.1061E+00	166.0	2.5772E+01	1.4770E+01
46.0	1.1033E+00	1.0150E+00	108.0	1.4948E+00	1.1339E+00	168.0	3.7791E+01	2.6260E+01
48.0	1.0652E+00	1.0219E+00	110.0	1.3570E+00	1.1585E+00	170.0	5.2204E+01	4.1797E+01
50.0	1.0087E+00	1.0242E+00	112.0	1.0400E+00	1.1751E+00	172.0	6.8319E+01	6.0099E+01
52.0	9.3953E-01	1.0223E+00	114.0	6.6844E-01	1.1827E+00	174.0	8.4248E+01	7.8887E+01
54.0	8.8062E-01	1.0168E+00	116.0	4.0953E-01	1.1845E+00	176.0	9.7932E+01	9.5298E+01
56.0	8.5150E-01	1.0094E+00	118.0	4.0080E-01	1.1863E+00	178.0	1.0722E+02	1.0652E+02
58.0	8.6519E-01	1.0024E+00	120.0	6.8134E-01	1.1940E+00	180.0	1.1051E+02	1.1051E+02
60.0	9.2280E-01	9.9840E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=10.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.4500E-01	9.4500E-01	62.0	8.9889E-01	1.0016E+00	122.0	8.6599E-01	1.2107E+00
2.0	9.4586E-01	9.4502E-01	64.0	9.8247E-01	1.0008E+00	124.0	1.3934E+00	1.2338E+00
4.0	9.4901E-01	9.4523E-01	66.0	1.0820E+00	1.0055E+00	126.0	1.8154E+00	1.2706E+00
6.0	9.5595E-01	9.4602E-01	68.0	1.1637E+00	1.0150E+00	128.0	1.9167E+00	1.3223E+00
8.0	9.6797E-01	9.4793E-01	70.0	1.1596E+00	1.0267E+00	130.0	1.6147E+00	1.3882E+00
10.0	9.8637E-01	9.5152E-01	72.0	1.1596E+00	1.0372E+00	132.0	1.0185E+00	1.4633E+00
12.0	1.0106E+00	9.5722E-01	74.0	1.0607E+00	1.0433E+00	134.0	3.9919E-01	1.5388E+00
14.0	1.0386E+00	9.6517E-01	76.0	9.2825E-01	1.0431E+00	136.0	7.7054E-02	1.5888E+00
16.0	1.0665E+00	9.7515E-01	78.0	8.0873E-01	1.0372E+00	138.0	2.7028E-01	1.6089E+00
18.0	1.0896E+00	9.8653E-01	80.0	7.4996E-01	1.0284E+00	140.0	9.7835E-01	1.6000E+00
20.0	1.1029E+00	9.9831E-01	82.0	7.8217E-01	1.0212E+00	142.0	1.9603E+00	1.5965E+00
22.0	1.1023E+00	1.0093E+00	84.0	9.0308E-01	1.0197E+00	144.0	2.8270E+00	1.6623E+00
24.0	1.0858E+00	1.0181E+00	86.0	1.0738E+00	1.0268E+00	146.0	3.2109E+00	1.8684E+00
26.0	1.0542E+00	1.0238E+00	88.0	1.2293E+00	1.0407E+00	148.0	2.9353E+00	2.2490E+00
28.0	1.0113E+00	1.0256E+00	90.0	1.3021E+00	1.0586E+00	150.0	2.1051E+00	2.7540E+00
30.0	9.6404E-01	1.0235E+00	92.0	1.2506E+00	1.0748E+00	152.0	1.0803E+00	3.2315E+00
32.0	9.2128E-01	1.0179E+00	94.0	1.0813E+00	1.0843E+00	154.0	3.5407E-01	3.4721E+00
34.0	8.9245E-01	1.0102E+00	96.0	8.5334E-01	1.0850E+00	156.0	4.0975E-01	3.3304E+00
36.0	8.8533E-01	1.0020E+00	98.0	6.5998E-01	1.0787E+00	158.0	1.6390E+00	2.8992E+00
38.0	9.0379E-01	9.9506E-01	100.0	5.9215E-01	1.0705E+00	160.0	4.3593E+00	2.6699E+00
40.0	9.4598E-01	9.9111E-01	102.0	6.9659E-01	1.0672E+00	162.0	8.9017E+00	3.5904E+00
42.0	1.0037E+00	9.9109E-01	104.0	9.4775E-01	1.0740E+00	164.0	1.5678E+01	6.9407E+00
44.0	1.0636E+00	9.9510E-01	106.0	1.2488E+00	1.0922E+00	166.0	2.5133E+01	1.4006E+01
46.0	1.1096E+00	1.0022E+00	108.0	1.4665E+00	1.1185E+00	168.0	3.7538E+01	2.5613E+01
48.0	1.1276E+00	1.0108E+00	110.0	1.4887E+00	1.1468E+00	170.0	5.2693E+01	4.1687E+01
50.0	1.1099E+00	1.0185E+00	112.0	1.2811E+00	1.1700E+00	172.0	8.9614E+01	6.0880E+01
52.0	1.0582E+00	1.0234E+00	114.0	9.1487E-01	1.1849E+00	174.0	8.6570E+01	8.0828E+01
54.0	9.8535E-01	1.0241E+00	116.0	5.4811E-01	1.1915E+00	176.0	1.0123E+02	9.8388E+01
56.0	9.1237E-01	1.0206E+00	118.0	3.6084E-01	1.1941E+00	178.0	1.1121E+02	1.1046E+02
58.0	8.6278E-01	1.0140E+00	120.0	4.7083E-01	1.1987E+00	180.0	1.1476E+02	1.1476E+02
60.0	8.5594E-01	1.0068E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=10.6

NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0772E+00	62.0	8.4165E-01	1.1011E+00	122.0	6.065E-01	1.2137E+00
2.0	1.0705E+00	64.0	8.7001E-01	1.0047E+00	124.0	1.1055E+00	1.2302E+00
4.0	1.0519E+00	66.0	9.4777E-01	1.0025E+00	126.0	1.6314E+00	1.2590E+00
6.0	1.0252E+00	68.0	1.0517E+00	1.0059E+00	128.0	1.9312E+00	1.3032E+00
8.0	9.9576E-01	70.0	1.1455E+00	1.0146E+00	130.0	1.8210E+00	1.3647E+00
10.0	9.6960E-01	72.0	1.1921E+00	1.0263E+00	132.0	1.3317E+00	1.4414E+00
12.0	9.5191E-01	74.0	1.1672E+00	1.0374E+00	134.0	6.5932E-01	1.5236E+00
14.0	9.4624E-01	76.0	1.0717E+00	1.0443E+00	136.0	1.5474E-01	1.5933E+00
16.0	9.5377E-01	78.0	9.3469E-01	1.0498E+00	138.0	1.1713E-01	1.6307E+00
18.0	9.7308E-01	80.0	8.0639E-01	1.0333E+00	140.0	6.5412E-01	1.6291E+00
20.0	1.0003E+00	82.0	7.4050E-01	1.0305E+00	142.0	1.6050E+00	1.6126E+00
22.0	1.0294E+00	84.0	7.7215E-01	1.0223E+00	144.0	2.5957E+00	1.6424E+00
24.0	1.0538E+00	86.0	8.9996E-01	1.0222E+00	146.0	3.2022E+00	1.8010E+00
26.0	1.0667E+00	88.0	1.0809E+00	1.0295E+00	148.0	3.1493E+00	2.1469E+00
28.0	1.0637E+00	90.0	1.2426E+00	1.045E+00	150.0	2.460E+00	2.6580E+00
30.0	1.0431E+00	92.0	1.3111E+00	1.0629E+00	152.0	1.4019E+00	3.1962E+00
32.0	1.0082E+00	94.0	1.2440E+00	1.0790E+00	154.0	5.1618E-01	3.5359E+00
34.0	9.6608E-01	96.0	1.0545E+00	1.0878E+00	156.0	3.2248E-01	3.4806E+00
36.0	9.2746E-01	98.0	8.1416E-01	1.0876E+00	158.0	1.2772E+00	3.0535E+00
38.0	9.0370E-01	100.0	6.2814E-01	1.0809E+00	160.0	3.7543E+00	2.6922E+00
40.0	9.0384E-01	102.0	5.9094E-01	1.0737E+00	162.0	8.1292E+00	3.3470E+00
42.0	9.3137E-01	104.0	7.3958E-01	1.0729E+00	164.0	1.4835E+01	6.3820E+00
44.0	9.8223E-01	106.0	1.0271E+00	1.0830E+00	166.0	2.443E+01	1.3239E+01
46.0	1.0447E+00	108.0	1.3329E+00	1.1043E+00	168.0	3.7208E+01	2.4924E+01
48.0	1.1016E+00	110.0	1.5110E+00	1.1323E+00	170.0	5.3005E+01	4.1473E+01
50.0	1.1352E+00	112.0	1.4583E+00	1.1602E+00	172.0	7.0856E+01	6.1605E+01
52.0	1.1323E+00	114.0	1.1727E+00	1.1820E+00	174.0	8.883E+01	8.2750E+01
54.0	1.0897E+00	116.0	7.6874E-01	1.1952E+00	176.0	1.0456E+02	1.0151E+02
56.0	1.0167E+00	118.0	4.3680E-01	1.2015E+00	178.0	1.1529E+02	1.1448E+02
58.0	9.3370E-01	120.0	3.5719E-01	1.2057E+00	180.0	1.1911E+02	1.1911E+02
60.0	8.6724E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=10.8

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE			E-PLANE		
ANGLE	ANGLE	H-PLANE	ANGLE	ANGLE	H-PLANE	ANGLE	ANGLE	H-PLANE	ANGLE	ANGLE	H-PLANE
0.0	62.0	1.1342E+00	62.0	8.7206E-01	1.0212E+00	62.0	8.7206E-01	1.0212E+00	122.0	4.1834E-01	1.2195E+00
2.0	64.0	1.1261E+00	64.0	8.3144E-01	1.0138E+00	64.0	8.3144E-01	1.0138E+00	124.0	8.1403E-01	1.2312E+00
4.0	66.0	1.1266E+00	66.0	8.4731E-01	1.0069E+00	66.0	8.4731E-01	1.0069E+00	126.0	1.3814E+00	1.2526E+00
6.0	68.0	1.0671E+00	68.0	9.2019E-01	1.0036E+00	68.0	9.2019E-01	1.0036E+00	128.0	1.8451E+00	1.2884E+00
8.0	70.0	1.0241E+00	70.0	1.0287E+00	1.0060E+00	70.0	1.0287E+00	1.0060E+00	130.0	1.9532E+00	1.3426E+00
10.0	72.0	1.0795E+00	72.0	1.1343E+00	1.0141E+00	72.0	1.1343E+00	1.0141E+00	132.0	1.6127E+00	1.4168E+00
12.0	74.0	1.0952E+00	74.0	1.1945E+00	1.0259E+00	74.0	1.1945E+00	1.0259E+00	134.0	9.6018E-01	1.5048E+00
14.0	76.0	1.0552E+00	76.0	1.1790E+00	1.0376E+00	76.0	1.1790E+00	1.0376E+00	136.0	3.2010E-01	1.5894E+00
16.0	78.0	1.0853E-01	78.0	1.0849E+00	1.0452E+00	78.0	1.0849E+00	1.0452E+00	138.0	5.6437E-02	1.6465E+00
18.0	80.0	8.9225E-01	80.0	9.4218E-01	1.0462E+00	80.0	9.4218E-01	1.0462E+00	140.0	3.8313E-01	1.6589E+00
20.0	82.0	9.1166E-01	82.0	8.0567E-01	1.0409E+00	82.0	8.0567E-01	1.0409E+00	142.0	1.2421E+00	1.6381E+00
22.0	84.0	9.4546E-01	84.0	7.3550E-01	1.0323E+00	84.0	7.3550E-01	1.0323E+00	144.0	2.3034E+00	1.6382E+00
24.0	86.0	9.8904E-01	86.0	7.7092E-01	1.0254E+00	86.0	7.7092E-01	1.0254E+00	146.0	3.1110E+00	1.7483E+00
26.0	88.0	1.0343E+00	88.0	9.0943E-01	1.0250E+00	88.0	9.0943E-01	1.0250E+00	148.0	3.2951E+00	2.0498E+00
28.0	90.0	1.0718E+00	90.0	1.1014E+00	1.0334E+00	90.0	1.1014E+00	1.0334E+00	150.0	2.7601E+00	2.5518E+00
30.0	92.0	1.0928E+00	92.0	1.2654E+00	1.0494E+00	92.0	1.2654E+00	1.0494E+00	152.0	1.7432E+00	3.1380E+00
32.0	94.0	1.0913E+00	94.0	1.3218E+00	1.0684E+00	94.0	1.3218E+00	1.0684E+00	154.0	7.3236E-01	3.5750E+00
34.0	96.0	1.0666E+00	96.0	1.2303E+00	1.0841E+00	96.0	1.2303E+00	1.0841E+00	156.0	3.0252E-01	3.6199E+00
36.0	98.0	1.0239E+00	98.0	1.0159E+00	1.0917E+00	98.0	1.0159E+00	1.0917E+00	158.0	9.7569E-01	3.2218E+00
38.0	100.0	9.7389E-01	100.0	7.6507E-01	1.0903E+00	100.0	7.6507E-01	1.0903E+00	160.0	3.1881E+00	2.7531E+00
40.0	102.0	9.3061E-01	102.0	5.9637E-01	1.0834E+00	102.0	5.9637E-01	1.0834E+00	162.0	7.3637E+00	3.1522E+00
42.0	104.0	9.0749E-01	104.0	6.0298E-01	1.0777E+00	104.0	6.0298E-01	1.0777E+00	164.0	1.4010E+01	5.8580E+00
44.0	106.0	9.1345E-01	106.0	8.0444E-01	1.0800E+00	106.0	8.0444E-01	1.0800E+00	166.0	2.3698E+01	1.2471E+01
46.0	108.0	9.4941E-01	108.0	1.1253E+00	1.0940E+00	108.0	1.1253E+00	1.0940E+00	168.0	3.6807E+01	2.4193E+01
48.0	110.0	1.0069E+00	110.0	1.4193E+00	1.1184E+00	110.0	1.4193E+00	1.1184E+00	170.0	5.3255E+01	4.1209E+01
50.0	112.0	1.0695E+00	112.0	1.5339E+00	1.1476E+00	112.0	1.5339E+00	1.1476E+00	172.0	7.2043E+01	6.2262E+01
52.0	114.0	1.1168E+00	114.0	1.3883E+00	1.1746E+00	114.0	1.3883E+00	1.1746E+00	174.0	9.1178E+01	8.4638E+01
54.0	116.0	1.1308E+00	116.0	1.0258E+00	1.1946E+00	116.0	1.0258E+00	1.1946E+00	176.0	1.0793E+02	1.0466E+02
56.0	118.0	1.1025E+00	118.0	6.0956E-01	1.2054E+00	118.0	6.0956E-01	1.2054E+00	178.0	1.1943E+02	1.1856E+02
58.0	120.0	1.0361E+00	120.0	3.5396E-01	1.2130E+00	120.0	3.5396E-01	1.2130E+00	180.0	1.2354E+02	1.2354E+02
60.0		9.4994E-01									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=11.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0648E+00	1.0643E+00	62.0	9.7401E-01	1.0266E+00	122.0	3.2673E-01	1.2263E+00
2.0	1.0627E+00	1.0641E+00	64.0	8.8742E-01	1.0228E+00	124.0	5.6211E-01	1.2355E+00
4.0	1.0564E+00	1.0630E+00	66.0	8.3350E-01	1.0159E+00	126.0	1.0809E+00	1.2511E+00
6.0	1.0456E+00	1.0605E+00	68.0	8.3773E-01	1.0087E+00	128.0	1.6602E+00	1.2785E+00
8.0	1.0303E+00	1.0565E+00	70.0	9.0578E-01	1.0049E+00	130.0	1.9714E+00	1.3237E+00
10.0	1.0105E+00	1.0539E+00	72.0	1.0179E+00	1.0066E+00	132.0	1.8313E+00	1.3917E+00
12.0	9.8713E-01	1.0431E+00	74.0	1.1331E+00	1.0145E+00	134.0	1.2714E+00	1.4807E+00
14.0	9.6197E-01	1.0342E+00	76.0	1.2031E+00	1.0265E+00	136.0	5.5864E-01	1.5769E+00
16.0	9.3832E-01	1.0236E+00	78.0	1.1923E+00	1.0387E+00	138.0	9.0684E-02	1.6540E+00
18.0	9.2058E-01	1.0125E+00	80.0	1.0954E+00	1.0468E+00	140.0	1.8335E-01	1.6858E+00
20.0	9.1354E-01	1.0018E+00	82.0	9.4432E-01	1.0481E+00	142.0	8.9512E-01	1.6695E+00
22.0	9.2104E-01	9.9238E-01	84.0	8.0021E-01	1.0428E+00	144.0	1.9702E+00	1.6480E+00
24.0	9.4450E-01	9.8672E-01	86.0	7.2945E-01	1.0343E+00	146.0	2.9450E+00	1.7116E+00
26.0	9.8173E-01	9.8422E-01	88.0	7.7379E-01	1.0279E+00	148.0	3.3701E+00	1.9612E+00
28.0	1.0266E+00	9.8597E-01	90.0	9.2674E-01	1.0285E+00	150.0	3.0308E+00	2.4393E+00
30.0	1.0697E+00	9.9059E-01	92.0	1.1292E+00	1.0384E+00	152.0	2.0925E+00	3.0587E+00
32.0	1.1005E+00	9.9819E-01	94.0	1.2897E+00	1.0556E+00	154.0	9.9439E-01	3.5877E+00
34.0	1.1103E+00	1.0066E+00	96.0	1.3247E+00	1.0749E+00	156.0	3.4714E-01	3.7430E+00
36.0	1.0743E+00	1.0134E+00	98.0	1.2005E+00	1.0897E+00	158.0	7.3720E-01	3.3981E+00
38.0	1.0545E+00	1.0187E+00	100.0	9.5842E-01	1.0958E+00	160.0	2.6685E+00	2.8486E+00
40.0	9.9957E-01	1.0197E+00	102.0	7.0514E-01	1.0931E+00	162.0	6.6222E+00	3.0056E+00
42.0	9.4349E-01	1.0169E+00	104.0	5.6804E-01	1.0863E+00	164.0	1.3157E+01	5.3716E+00
44.0	9.0279E-01	1.0113E+00	106.0	6.3271E-01	1.0828E+00	166.0	2.2901E+01	1.1707E+01
46.0	8.8934E-01	1.0015E+00	108.0	8.9196E-01	1.0889E+00	168.0	3.6344E+01	2.3421E+01
48.0	9.1085E-01	9.9897E-01	110.0	1.2358E+00	1.1069E+00	170.0	5.3431E+01	4.0870E+01
50.0	9.6278E-01	9.9645E-01	112.0	1.4943E+00	1.1340E+00	172.0	7.3167E+01	6.2839E+01
52.0	1.0306E+00	9.9812E-01	114.0	1.5198E+00	1.1637E+00	174.0	9.3443E+01	8.6477E+01
54.0	1.0925E+00	1.0038E+00	116.0	1.2700E+00	1.1894E+00	176.0	1.1130E+02	1.0780E+02
56.0	1.1259E+00	1.0120E+00	118.0	8.4586E-01	1.2075E+00	178.0	1.2363E+02	1.2269E+02
58.0	1.1154E+00	1.0201E+00	120.0	4.5797E-01	1.2185E+00	180.0	1.2803E+02	1.2803E+02
60.0	1.0597E+00	1.0256E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=11.2

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.4217E-01	9.4217E-01	62.0	1.0882E+00	1.0250E+00	122.0	3.4433E-01	1.2321E+00	180.0	1.3259E+02	1.2686E+02
2.0	9.4786E-01	9.4432E-01	64.0	1.0023E+00	1.0243E+00	124.0	3.8414E-01	1.2413E+00			
4.0	9.6390E-01	9.5051E-01	66.0	9.0679E-01	1.0248E+00	126.0	7.9871E-01	1.2534E+00			
6.0	9.8733E-01	9.6002E-01	68.0	8.3983E-01	1.0183E+00	128.0	1.4073E+00	1.2736E+00			
8.0	1.0138E+00	9.7175E-01	70.0	8.3381E-01	1.0111E+00	130.0	1.8917E+00	1.3092E+00			
10.0	1.0371E+00	9.8430E-01	72.0	8.9601E-01	1.0068E+00	132.0	1.9757E+00	1.3681E+00			
12.0	1.0524E+00	9.9617E-01	74.0	1.0107E+00	1.0082E+00	134.0	1.5634E+00	1.4537E+00			
14.0	1.0555E+00	1.0030E+00	76.0	1.1329E+00	1.0160E+00	136.0	8.4609E-01	1.5569E+00			
16.0	1.0450E+00	1.0125E+00	78.0	1.2088E+00	1.0283E+00	138.0	2.1493E-01	1.6523E+00			
18.0	1.0228E+00	1.0153E+00	80.0	1.1982E+00	1.0408E+00	140.0	6.7544E-02	1.7068E+00			
20.0	9.9402E-01	1.0144E+00	82.0	1.0947E+00	1.0491E+00	142.0	5.8625E-01	1.7033E+00			
22.0	9.6637E-01	1.0103E+00	84.0	9.3421E-01	1.0502E+00	144.0	1.6153E+00	1.6896E+00			
24.0	9.4786E-01	1.0015E+00	86.0	7.8488E-01	1.0447E+00	146.0	2.7147E+00	1.6913E+00			
26.0	9.4478E-01	9.9835E-01	88.0	7.1897E-01	1.0362E+00	148.0	3.3723E+00	1.8848E+00			
28.0	9.5963E-01	9.9355E-01	90.0	7.1849E-01	1.0305E+00	150.0	3.2660E+00	2.3254E+00			
30.0	9.9019E-01	9.9163E-01	92.0	9.4970E-01	1.0326E+00	152.0	2.4373E+00	2.9617E+00			
32.0	1.0291E+00	9.9294E-01	94.0	1.1613E+00	1.0443E+00	154.0	1.2925E+00	3.5739E+00			
34.0	1.0657E+00	9.9736E-01	96.0	1.3116E+00	1.0626E+00	156.0	4.5236E-01	3.8422E+00			
36.0	1.0897E+00	1.0039E+00	98.0	1.3158E+00	1.0819E+00	158.0	5.6350E-01	3.5767E+00			
38.0	1.0891E+00	1.0109E+00	100.0	1.1526E+00	1.0954E+00	160.0	2.2012E+00	2.9742E+00			
40.0	1.0635E+00	1.0166E+00	102.0	8.8526E-01	1.0995E+00	162.0	5.9084E+00	2.9067E+00			
42.0	1.0162E+00	1.0192E+00	104.0	6.4093E-01	1.0956E+00	164.0	1.2301E+01	4.9267E+00			
44.0	9.5885E-01	1.0181E+00	106.0	5.5266E-01	1.0895E+00	166.0	2.2080E+01	1.0952E+01			
46.0	9.0816E-01	1.0136E+00	108.0	6.8848E-01	1.0890E+00	168.0	3.5817E+01	2.2613E+01			
48.0	8.8121E-01	1.0071E+00	110.0	1.0046E+00	1.0995E+00	170.0	5.3532E+01	4.0461E+01			
50.0	8.8970E-01	1.0008E+00	112.0	1.3525E+00	1.1216E+00	172.0	7.4222E+01	6.3341E+01			
52.0	9.3491E-01	9.9633E-01	114.0	1.5459E+00	1.1508E+00	174.0	9.5676E+01	8.8267E+01			
54.0	1.0054E+00	9.9696E-01	116.0	1.4584E+00	1.1802E+00	176.0	1.1469E+02	1.1095E+02			
56.0	1.0790E+00	1.0015E+00	118.0	1.1043E+00	1.2043E+00	178.0	1.2787E+02	1.2686E+02			
58.0	1.1292E+00	1.0094E+00	120.0	6.5050E-01	1.2210E+00	180.0	1.3259E+02	1.2686E+02			
60.0	1.1346E+00	1.0182E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=11.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	8.8712E-01	8.8712E-01	62.0	1.1475E+00	1.0176E+00	122.0	4.6599E-01	1.2357E+00
2.0	8.9460E-01	8.8961E-01	64.0	1.1079E+00	1.0253E+00	124.0	3.0373E-01	1.2473E+00
4.0	9.1624E-01	8.9631E-01	66.0	1.0211E+00	1.0288E+00	126.0	5.4932E-01	1.2583E+00
6.0	9.4968E-01	9.0858E-01	68.0	9.1750E-01	1.0270E+00	128.0	1.1186E+00	1.2734E+00
8.0	9.9085E-01	9.2387E-01	70.0	8.3928E-01	1.0209E+00	130.0	1.7249E+00	1.3001E+00
10.0	1.0341E+00	9.4170E-01	72.0	8.2319E-01	1.0135E+00	132.0	2.0230E+00	1.3483E+00
12.0	1.0726E+00	9.6063E-01	74.0	8.8345E-01	1.0089E+00	134.0	1.8079E+00	1.4262E+00
14.0	1.0996E+00	9.7929E-01	76.0	1.0017E+00	1.0101E+00	136.0	1.1559E+00	1.5313E+00
16.0	1.1093E+00	9.9587E-01	78.0	1.1303E+00	1.0180E+00	138.0	4.1657E-01	1.6416E+00
18.0	1.1009E+00	1.0050E+00	80.0	1.2100E+00	1.0305E+00	140.0	4.1465E-02	1.7202E+00
20.0	1.0737E+00	1.0176E+00	82.0	1.1965E+00	1.0432E+00	142.0	3.3370E-01	1.7364E+00
22.0	1.0336E+00	1.0212E+00	84.0	1.0840E+00	1.0513E+00	144.0	1.2386E+00	1.7004E+00
24.0	9.8479E-01	1.0201E+00	86.0	9.1417E-01	1.0520E+00	146.0	2.4311E+00	1.6875E+00
26.0	9.4929E-01	1.0153E+00	88.0	7.6319E-01	1.0460E+00	148.0	3.3008E+00	1.8233E+00
28.0	9.2437E-01	1.0033E+00	90.0	7.0862E-01	1.0376E+00	150.0	3.4374E+00	2.2149E+00
30.0	9.2045E-01	1.0012E+00	92.0	7.9016E-01	1.0308E+00	152.0	2.7843E+00	2.6513E+00
32.0	9.3896E-01	9.9572E-01	94.0	9.8311E-01	1.0370E+00	154.0	1.6164E+00	3.5349E+00
34.0	9.7576E-01	9.9330E-01	96.0	1.2012E+00	1.0506E+00	156.0	6.1313E-01	3.9271E+00
36.0	1.0210E+00	9.9451E-01	98.0	1.3325E+00	1.0702E+00	158.0	4.5490E-01	3.7529E+00
38.0	1.0616E+00	9.9898E-01	100.0	1.2957E+00	1.0890E+00	160.0	1.7891E+00	3.1259E+00
40.0	1.0841E+00	1.0054E+00	102.0	1.0886E+00	1.1007E+00	162.0	5.2359E+00	2.8545E+00
42.0	1.0795E+00	1.0118E+00	104.0	8.0175E-01	1.1026E+00	164.0	1.1434E+01	4.5264E+00
44.0	1.0463E+00	1.0163E+00	106.0	5.8271E-01	1.0979E+00	166.0	2.1222E+01	1.0213E+01
46.0	9.9279E-01	1.0175E+00	108.0	5.6252E-01	1.0935E+00	168.0	3.5225E+01	2.1779E+01
48.0	9.3552E-01	1.0149E+00	110.0	7.7929E-01	1.0969E+00	170.0	5.3553E+01	3.9990E+01
50.0	8.9482E-01	1.0095E+00	112.0	1.1425E+00	1.1122E+00	172.0	7.5218E+01	6.3776E+01
52.0	8.8792E-01	1.0032E+00	114.0	1.4656E+00	1.1380E+00	174.0	9.7881E+01	9.0023E+01
54.0	9.2196E-01	9.9850E-01	116.0	1.5590E+00	1.1686E+00	176.0	1.1811E+02	1.1411E+02
56.0	9.8942E-01	9.9747E-01	118.0	1.3403E+00	1.1972E+00	178.0	1.3219E+02	1.3111E+02
58.0	1.0687E+00	1.0010E+00	120.0	8.9836E-01	1.2197E+00	180.0	1.3724E+02	1.3724E+02
60.0	1.1302E+00	1.0085E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=11.6

ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE	ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE	ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE	ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE
0.0	9.4914E-01	9.4914E-01	62.0	1.1195E+00	1.0084E+00	122.0	6.6912E-01	1.2363E+00			
2.0	9.5056E-01	9.4937E-01	64.0	1.1473E+00	1.0175E+00	124.0	3.2832E-01	1.2520E+00			
4.0	9.5534E-01	9.5018E-01	66.0	1.1150E+00	1.0257E+00	126.0	3.7138E-01	1.2644E+00			
6.0	9.6476E-01	9.5197E-01	68.0	1.0287E+00	1.0299E+00	128.0	8.2835E-01	1.2770E+00			
8.0	9.8000E-01	9.5524E-01	70.0	9.1956E-01	1.0286E+00	130.0	1.4841E+00	1.2964E+00			
10.0	1.0011E+00	9.6043E-01	72.0	8.3329E-01	1.0227E+00	132.0	1.9710E+00	1.3335E+00			
12.0	1.0265E+00	9.6774E-01	74.0	8.1176E-01	1.0152E+00	134.0	1.9809E+00	1.4007E+00			
14.0	1.0523E+00	9.7638E-01	76.0	8.7261E-01	1.0104E+00	136.0	1.4584E+00	1.5023E+00			
16.0	1.0738E+00	9.8754E-01	78.0	9.9693E-01	1.0117E+00	138.0	6.7637E-01	1.6228E+00			
18.0	1.0855E+00	9.9838E-01	80.0	1.1325E+00	1.0200E+00	140.0	1.0383E-01	1.7246E+00			
20.0	1.0836E+00	1.0082E+00	82.0	1.2142E+00	1.0329E+00	142.0	1.5100E-01	1.7657E+00			
22.0	1.0660E+00	1.0158E+00	84.0	1.1942E+00	1.0457E+00	144.0	9.1816E-01	1.7372E+00			
24.0	1.0344E+00	1.0199E+00	86.0	1.0594E+00	1.0534E+00	146.0	2.1067E+00	1.6987E+00			
26.0	9.9378E-01	1.0203E+00	88.0	8.8974E-01	1.0533E+00	148.0	3.1568E+00	1.7785E+00			
28.0	9.5242E-01	1.0169E+00	90.0	7.4096E-01	1.0468E+00	150.0	3.5425E+00	2.1119E+00			
30.0	9.2009E-01	1.0109E+00	92.0	7.0501E-01	1.0388E+00	152.0	3.0611E+00	2.7316E+00			
32.0	9.0588E-01	1.0036E+00	94.0	8.1553E-01	1.0358E+00	154.0	1.9551E+00	3.4723E+00			
34.0	9.1547E-01	9.9697E-01	96.0	1.0320E+00	1.0422E+00	156.0	8.2357E-01	3.9836E+00			
36.0	9.4864E-01	9.9275E-01	98.0	1.2503E+00	1.0581E+00	158.0	4.0971E-01	3.9218E+00			
38.0	9.9819E-01	9.9207E-01	100.0	1.3503E+00	1.0786E+00	160.0	1.4333E+00	3.2988E+00			
40.0	1.0508E+00	9.9515E-01	102.0	1.2607E+00	1.0963E+00	162.0	4.5706E+00	2.8470E+00			
42.0	1.0902E+00	1.0011E+00	104.0	1.0070E+00	1.1057E+00	164.0	1.0598E+01	4.1728E+00			
44.0	1.1025E+00	1.0083E+00	106.0	7.1220E-01	1.1055E+00	166.0	2.0329E+01	9.4953E+00			
46.0	1.0811E+00	1.0144E+00	108.0	5.4058E-01	1.1007E+00	168.0	3.4567E+01	2.0923E+01			
48.0	1.0304E+00	1.0177E+00	110.0	6.0852E-01	1.0990E+00	170.0	5.3496E+01	3.9462E+01			
50.0	9.6602E-01	1.0170E+00	112.0	9.0887E-01	1.1072E+00	172.0	7.6146E+01	6.4146E+01			
52.0	9.1078E-01	1.0128E+00	114.0	1.2964E+00	1.1274E+00	174.0	1.0006E+02	9.1744E+01			
54.0	8.8678E-01	1.0067E+00	116.0	1.5539E+00	1.1562E+00	176.0	1.2156E+02	1.1730E+02			
56.0	9.0680E-01	1.0014E+00	118.0	1.5119E+00	1.1873E+00	178.0	1.3659E+02	1.3843E+02			
58.0	9.6789E-01	9.9819E-01	120.0	1.1582E+00	1.2143E+00	180.0	1.4199E+02	1.4199E+02			
60.0	1.0492E+00	1.0016E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=11.8

NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION	
E-PLANE		E-PLANE		E-PLANE		E-PLANE	
ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE
0.0	1.0623E+00	62.0	1.0019E+00	122.0	1.2335E+00	122.0	1.2335E+00
2.0	1.0557E+00	64.0	1.1056E+00	124.0	4.5198E-01	124.0	1.2544E+00
4.0	1.0376E+00	66.0	1.1447E+00	126.0	2.8533E-01	126.0	1.2702E+00
6.0	1.0126E+00	68.0	1.1203E+00	128.0	5.7223E-01	128.0	1.2830E+00
8.0	9.680E-01	70.0	1.0354E+00	130.0	1.2001E+00	130.0	1.2975E+00
10.0	9.6651E-01	72.0	9.2175E-01	132.0	1.8257E+00	132.0	1.3244E+00
12.0	9.5667E-01	74.0	8.2951E-01	134.0	2.0813E+00	134.0	1.3789E+00
14.0	9.5965E-01	76.0	8.0573E-01	136.0	1.7230E+00	136.0	1.4722E+00
16.0	9.7476E-01	78.0	8.7072E-01	138.0	9.7148E-01	138.0	1.5972E+00
18.0	9.9825E-01	80.0	1.0034E+00	140.0	2.4748E-01	140.0	1.7192E+00
20.0	1.0240E+00	82.0	1.1454E+00	142.0	4.7527E-02	142.0	1.7884E+00
22.0	1.0447E+00	84.0	1.2249E+00	144.0	6.1212E-01	144.0	1.7765E+00
24.0	1.0537E+00	86.0	1.1923E+00	146.0	1.7574E+00	146.0	1.7229E+00
26.0	1.0467E+00	88.0	1.0502E+00	148.0	2.9471E+00	148.0	1.7512E+00
28.0	1.0236E+00	90.0	8.6028E-01	150.0	3.5784E+00	150.0	2.0197E+00
30.0	9.8945E-01	92.0	7.1914E-01	152.0	3.3182E+00	152.0	2.6067E+00
32.0	9.5368E-01	94.0	7.1054E-01	154.0	2.2940E+00	154.0	3.3879E+00
34.0	9.2795E-01	96.0	8.5645E-01	156.0	1.0769E+00	156.0	4.0137E+00
36.0	9.2258E-01	98.0	1.0948E+00	158.0	4.2569E-01	158.0	4.0785E+00
38.0	9.4262E-01	100.0	1.3019E+00	160.0	1.1355E+00	160.0	3.4877E+00
40.0	9.8507E-01	102.0	1.3543E+00	162.0	3.9657E+00	162.0	2.8817E+00
42.0	1.0385E+00	104.0	1.2008E+00	164.0	9.7403E+00	164.0	3.8670E+00
44.0	1.0857E+00	106.0	9.0455E-01	166.0	1.9408E+01	166.0	8.8016E+00
46.0	1.1093E+00	108.0	6.2256E-01	168.0	3.3851E+01	168.0	2.0047E+01
48.0	1.0977E+00	110.0	5.2602E-01	170.0	5.3364E+01	170.0	3.8872E+01
50.0	1.0511E+00	112.0	6.9860E-01	172.0	7.7006E+01	172.0	6.4442E+01
52.0	9.8301E-01	114.0	1.0720E+00	174.0	1.0221E+02	174.0	9.3418E+01
54.0	9.1691E-01	116.0	1.4450E+00	176.0	1.2502E+02	176.0	1.2049E+02
56.0	8.7871E-01	118.0	1.5887E+00	178.0	1.4104E+02	178.0	1.3981E+02
58.0	8.8649E-01	120.0	1.3854E+00	180.0	1.4682E+02	180.0	1.4682E+02
60.0	9.4167E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=12.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.1145E+00	1.1145E+00	62.0	9.2428E-01	1.0012E+00	122.0	1.1759E+00	1.2275E+00	122.0	1.1759E+00	1.2275E+00	122.0	1.1759E+00	1.2275E+00
2.0	1.1059E+00	1.1111E+00	64.0	1.0119E+00	1.0020E+00	124.0	6.5282E-01	1.2535E+00	124.0	6.5282E-01	1.2535E+00	124.0	6.5282E-01	1.2535E+00
4.0	1.0816E+00	1.1033E+00	66.0	1.1007E+00	1.0078E+00	126.0	3.0023E-01	1.2742E+00	126.0	3.0023E-01	1.2742E+00	126.0	3.0023E-01	1.2742E+00
6.0	1.0456E+00	1.0933E+00	68.0	1.1496E+00	1.0169E+00	128.0	3.7949E-01	1.2895E+00	128.0	3.7949E-01	1.2895E+00	128.0	3.7949E-01	1.2895E+00
8.0	1.0038E+00	1.0737E+00	70.0	1.1307E+00	1.0259E+00	130.0	9.0518E-01	1.3021E+00	130.0	9.0518E-01	1.3021E+00	130.0	9.0518E-01	1.3021E+00
10.0	9.6307E-01	1.0553E+00	72.0	1.0445E+00	1.0311E+00	132.0	1.6017E+00	1.3208E+00	132.0	1.6017E+00	1.3208E+00	132.0	1.6017E+00	1.3208E+00
12.0	9.3007E-01	1.0354E+00	74.0	9.2503E-01	1.0304E+00	134.0	2.0521E+00	1.3621E+00	134.0	2.0521E+00	1.3621E+00	134.0	2.0521E+00	1.3621E+00
14.0	9.1043E-01	1.0113E+00	76.0	8.2752E-01	1.0247E+00	136.0	1.9363E+00	1.4432E+00	136.0	1.9363E+00	1.4432E+00	136.0	1.9363E+00	1.4432E+00
16.0	9.0802E-01	1.0032E+00	78.0	8.0424E-01	1.0173E+00	138.0	1.2778E+00	1.5655E+00	138.0	1.2778E+00	1.5655E+00	138.0	1.2778E+00	1.5655E+00
18.0	9.2359E-01	9.9231E-01	80.0	8.7665E-01	1.0131E+00	140.0	4.6027E-01	1.7042E+00	140.0	4.6027E-01	1.7042E+00	140.0	4.6027E-01	1.7042E+00
20.0	9.5462E-01	9.8657E-01	82.0	1.0191E+00	1.0157E+00	142.0	2.8131E-02	1.8022E+00	142.0	2.8131E-02	1.8022E+00	142.0	2.8131E-02	1.8022E+00
22.0	9.9497E-01	9.8652E-01	84.0	1.1649E+00	1.0257E+00	144.0	3.5730E-01	1.8146E+00	144.0	3.5730E-01	1.8146E+00	144.0	3.5730E-01	1.8146E+00
24.0	1.0356E+00	9.8918E-01	86.0	1.2359E+00	1.0398E+00	146.0	1.4017E+00	1.7571E+00	146.0	1.4017E+00	1.7571E+00	146.0	1.4017E+00	1.7571E+00
26.0	1.0684E+00	9.9578E-01	88.0	1.1832E+00	1.0523E+00	148.0	2.6830E+00	1.7411E+00	148.0	2.6830E+00	1.7411E+00	148.0	2.6830E+00	1.7411E+00
28.0	1.0786E+00	1.0030E+00	90.0	1.0196E+00	1.0583E+00	150.0	3.5455E+00	1.9413E+00	150.0	3.5455E+00	1.9413E+00	150.0	3.5455E+00	1.9413E+00
30.0	1.0682E+00	1.0093E+00	92.0	8.2169E-01	1.0559E+00	152.0	3.5219E+00	2.4808E+00	152.0	3.5219E+00	2.4808E+00	152.0	3.5219E+00	2.4808E+00
32.0	1.0372E+00	1.0130E+00	94.0	6.9686E-01	1.0484E+00	154.0	2.6310E+00	3.2845E+00	154.0	2.6310E+00	3.2845E+00	154.0	2.6310E+00	3.2845E+00
34.0	9.9439E-01	1.0134E+00	96.0	7.2589E-01	1.0423E+00	156.0	1.3653E+00	4.0162E+00	156.0	1.3653E+00	4.0162E+00	156.0	1.3653E+00	4.0162E+00
36.0	9.5337E-01	1.0104E+00	98.0	9.1174E-01	1.0426E+00	158.0	4.9967E-01	4.2183E+00	158.0	4.9967E-01	4.2183E+00	158.0	4.9967E-01	4.2183E+00
38.0	9.2840E-01	1.0054E+00	100.0	1.1655E+00	1.0567E+00	160.0	8.9780E-01	3.6868E+00	160.0	8.9780E-01	3.6868E+00	160.0	8.9780E-01	3.6868E+00
40.0	9.2967E-01	1.0001E+00	102.0	1.3451E+00	1.0768E+00	162.0	3.3946E+00	2.9552E+00	162.0	3.3946E+00	2.9552E+00	162.0	3.3946E+00	2.9552E+00
42.0	9.5904E-01	9.9654E-01	104.0	1.3325E+00	1.0973E+00	164.0	8.9059E+00	3.6098E+00	164.0	8.9059E+00	3.6098E+00	164.0	8.9059E+00	3.6098E+00
44.0	1.0083E+00	9.9623E-01	106.0	1.1097E+00	1.1109E+00	166.0	1.8472E+01	8.1358E+00	166.0	1.8472E+01	8.1358E+00	166.0	1.8472E+01	8.1358E+00
46.0	1.0605E+00	9.9955E-01	108.0	7.8516E-01	1.1146E+00	168.0	3.3085E+01	1.9154E+01	168.0	3.3085E+01	1.9154E+01	168.0	3.3085E+01	1.9154E+01
48.0	1.0956E+00	1.0056E+00	110.0	5.4615E-01	1.1119E+00	170.0	5.3160E+01	3.8221E+01	170.0	5.3160E+01	3.8221E+01	170.0	5.3160E+01	3.8221E+01
50.0	1.0973E+00	1.0125E+00	112.0	5.5369E-01	1.1102E+00	172.0	7.7797E+01	6.4658E+01	172.0	7.7797E+01	6.4658E+01	172.0	7.7797E+01	6.4658E+01
52.0	1.0604E+00	1.0178E+00	114.0	8.3693E-01	1.1173E+00	174.0	1.0432E+02	9.5032E+01	174.0	1.0432E+02	9.5032E+01	174.0	1.0432E+02	9.5032E+01
54.0	9.9462E-01	1.0195E+00	116.0	1.2546E+00	1.1362E+00	176.0	1.2849E+02	1.2367E+02	176.0	1.2849E+02	1.2367E+02	176.0	1.2849E+02	1.2367E+02
56.0	9.2311E-01	1.0170E+00	118.0	1.5598E+00	1.1646E+00	178.0	1.4554E+02	1.4423E+02	178.0	1.4554E+02	1.4423E+02	178.0	1.4554E+02	1.4423E+02
58.0	8.7486E-01	1.0114E+00	120.0	1.5434E+00	1.1968E+00	180.0	1.5171E+02	1.5171E+02	180.0	1.5171E+02	1.5171E+02	180.0	1.5171E+02	1.5171E+02
60.0	8.7314E-01	1.0052E+00												

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=12.2

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0582E+00	1.0592E+00	62.0	8.7060E-01	1.0664E+00	122.0	1.4018E+00	1.2187E+00
2.0	1.0557E+00	1.0576E+00	64.0	9.1755E-01	1.0022E+00	124.0	9.0170E-01	1.2493E+00
4.0	1.0480E+00	1.0575E+00	66.0	1.0075E+00	1.0026E+00	126.0	4.1234E-01	1.2752E+00
6.0	1.0354E+00	1.0524E+00	68.0	1.1029E+00	1.0083E+00	128.0	2.7351E-01	1.2950E+00
8.0	1.0180E+00	1.0474E+00	70.0	1.1577E+00	1.0176E+00	130.0	6.3634E-01	1.3087E+00
10.0	9.9663E-01	1.0406E+00	72.0	1.1397E+00	1.0270E+00	132.0	1.3338E+00	1.3222E+00
12.0	9.7314E-01	1.0320E+00	74.0	1.0485E+00	1.0324E+00	134.0	1.9594E+00	1.3512E+00
14.0	9.5067E-01	1.0222E+00	76.0	9.2155E-01	1.0317E+00	136.0	2.0726E+00	1.4175E+00
16.0	9.3365E-01	1.0117E+00	78.0	8.2035E-01	1.0259E+00	138.0	1.5706E+00	1.5333E+00
18.0	9.2701E-01	1.0014E+00	80.0	8.0145E-01	1.0186E+00	140.0	7.2525E-01	1.6809E+00
20.0	9.3468E-01	9.9351E-01	82.0	8.8514E-01	1.0150E+00	142.0	9.2136E-02	1.8059E+00
22.0	9.5778E-01	9.8833E-01	84.0	1.0364E+00	1.0187E+00	144.0	1.6732E-01	1.8483E+00
24.0	9.9333E-01	9.8673E-01	86.0	1.1847E+00	1.0298E+00	146.0	1.0941E+00	1.7981E+00
26.0	1.0340E+00	9.8891E-01	88.0	1.2402E+00	1.0444E+00	148.0	2.3776E+00	1.7474E+00
28.0	1.0694E+00	9.9425E-01	90.0	1.1611E+00	1.0563E+00	150.0	3.4456E+00	1.8791E+00
30.0	1.0691E+00	1.0014E+00	92.0	9.7452E-01	1.0607E+00	152.0	3.6812E+00	2.3582E+00
32.0	1.0837E+00	1.0084E+00	94.0	7.7500E-01	1.0569E+00	154.0	2.9617E+00	3.1655E+00
34.0	1.0580E+00	1.0136E+00	96.0	6.7829E-01	1.0492E+00	156.0	1.6800E+00	3.9916E+00
36.0	1.0125E+00	1.0156E+00	98.0	7.5540E-01	1.0450E+00	158.0	6.2762E-01	4.3377E+00
38.0	9.6218E-01	1.0139E+00	100.0	9.8222E-01	1.0503E+00	160.0	7.2144E-01	3.8912E+00
40.0	9.2323E-01	1.0044E+00	102.0	1.2393E+00	1.0661E+00	162.0	2.8834E+00	3.0642E+00
42.0	9.0973E-01	1.0036E+00	104.0	1.3712E+00	1.0875E+00	164.0	8.1032E+00	3.4018E+00
44.0	9.2634E-01	9.9864E-01	106.0	1.2784E+00	1.1066E+00	166.0	1.7524E+01	7.5024E+00
46.0	9.7474E-01	9.9654E-01	108.0	9.8946E-01	1.1171E+00	168.0	3.2271E+01	1.8251E+01
48.0	1.0334E+00	9.9826E-01	110.0	6.6247E-01	1.1184E+00	170.0	5.2883E+01	3.7513E+01
50.0	1.0821E+00	1.0034E+00	112.0	5.0325E-01	1.1159E+00	172.0	7.8515E+01	6.4798E+01
52.0	1.0997E+00	1.0102E+00	114.0	6.3866E-01	1.1179E+00	174.0	1.0638E+02	9.6592E+01
54.0	1.0751E+00	1.0162E+00	116.0	1.0212E+00	1.1305E+00	176.0	1.3197E+02	1.2688E+02
56.0	1.0140E+00	1.0191E+00	118.0	1.4340E+00	1.1545E+00	178.0	1.5010E+02	1.4870E+02
58.0	9.3868E-01	1.0177E+00	120.0	1.4340E+00	1.1545E+00	180.0	1.5667E+02	1.5667E+02
60.0	8.8135E-01	1.0127E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=12.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.5280E-01	9.5280E-01	62.0	8.8833E-01	1.0144E+00	122.0	1.5623E+00	1.2083E+00	180.0	1.6173E+02	1.6173E+02
2.0	9.5846E-01	9.5493E-01	64.0	8.6862E-01	1.0082E+00	124.0	1.1619E+00	1.2421E+00			
4.0	9.7416E-01	9.6101E-01	66.0	9.1143E-01	1.0037E+00	126.0	6.0442E-01	1.2731E+00			
6.0	9.9630E-01	9.7018E-01	68.0	1.0031E+00	1.0039E+00	128.0	2.8529E-01	1.2985E+00			
8.0	1.0195E+00	9.8111E-01	70.0	1.1031E+00	1.0095E+00	130.0	4.2121E-01	1.3158E+00			
10.0	1.0376E+00	9.9221E-01	72.0	1.1607E+00	1.0191E+00	132.0	1.0420E+00	1.3274E+00			
12.0	1.0453E+00	1.0019E+00	74.0	1.1402E+00	1.0286E+00	134.0	1.7631E+00	1.3464E+00			
14.0	1.0400E+00	1.0038E+00	76.0	1.0418E+00	1.0340E+00	136.0	2.1233E+00	1.3969E+00			
16.0	1.0224E+00	1.0121E+00	78.0	9.0787E-01	1.0329E+00	138.0	1.8257E+00	1.5001E+00			
18.0	9.9754E-01	1.0117E+00	80.0	8.0647E-01	1.0267E+00	140.0	1.0213E+00	1.6502E+00			
20.0	9.7304E-01	1.0083E+00	82.0	7.9736E-01	1.0196E+00	142.0	2.3295E-01	1.7991E+00			
22.0	9.5731E-01	1.0031E+00	84.0	8.9699E-01	1.0169E+00	144.0	5.1175E-02	1.8752E+00			
24.0	9.5674E-01	9.9769E-01	86.0	1.0620E+00	1.0220E+00	146.0	7.4287E-01	1.8426E+00			
26.0	9.7313E-01	9.9423E-01	88.0	1.2048E+00	1.0344E+00	148.0	2.0438E+00	1.7684E+00			
28.0	1.0028E+00	9.9330E-01	90.0	1.2380E+00	1.0493E+00	150.0	3.2816E+00	1.8346E+00			
30.0	1.0369E+00	9.9550E-01	92.0	1.1269E+00	1.0601E+00	152.0	3.7837E+00	2.2434E+00			
32.0	1.0638E+00	1.0003E+00	94.0	9.1878E-01	1.0625E+00	154.0	3.2593E+00	3.0355E+00			
34.0	1.0730E+00	1.0052E+00	96.0	7.2731E-01	1.0573E+00	156.0	2.0111E+00	3.9413E+00			
36.0	1.0583E+00	1.0115E+00	98.0	6.7254E-01	1.0501E+00	158.0	8.0488E-01	4.4343E+00			
38.0	1.0216E+00	1.0145E+00	100.0	8.0665E-01	1.0486E+00	160.0	6.0608E-01	4.0961E+00			
40.0	9.7272E-01	1.0141E+00	102.0	1.0700E+00	1.0578E+00	162.0	2.4189E+00	3.2050E+00			
42.0	9.2799E-01	1.0106E+00	104.0	1.3116E+00	1.0766E+00	164.0	7.3221E+00	3.2432E+00			
44.0	9.0460E-01	1.0050E+00	106.0	1.3724E+00	1.0985E+00	166.0	1.6564E+01	6.9056E+00			
46.0	9.1418E-01	9.9952E-01	108.0	1.1866E+00	1.1153E+00	168.0	3.1406E+01	1.7344E+01			
48.0	9.5705E-01	9.9654E-01	110.0	8.4804E-01	1.1225E+00	170.0	5.2531E+01	3.6756E+01			
50.0	1.0200E+00	9.9722E-01	112.0	5.5620E-01	1.1211E+00	172.0	7.9159E+01	6.4868E+01			
52.0	1.0793E+00	1.0018E+00	114.0	5.1593E-01	1.1214E+00	174.0	1.0841E+02	9.8104E+01			
54.0	1.1096E+00	1.0087E+00	116.0	7.8992E-01	1.1284E+00	176.0	1.3546E+02	1.3005E+02			
56.0	1.0946E+00	1.0154E+00	118.0	1.2365E+00	1.1468E+00	178.0	1.5473E+02	1.5324E+02			
58.0	1.0358E+00	1.0193E+00	120.0	1.5760E+00	1.1750E+00	180.0					
60.0	9.5527E-01	1.0188E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=12.6

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE			E-PLANE		
ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE
0.0	62.0	122.0	0.0	62.0	122.0	0.0	62.0	122.0	0.0	62.0	122.0
2.0	64.0	124.0	2.0	64.0	124.0	2.0	64.0	124.0	2.0	64.0	124.0
4.0	66.0	126.0	4.0	66.0	126.0	4.0	66.0	126.0	4.0	66.0	126.0
6.0	68.0	128.0	6.0	68.0	128.0	6.0	68.0	128.0	6.0	68.0	128.0
8.0	70.0	130.0	8.0	70.0	130.0	8.0	70.0	130.0	8.0	70.0	130.0
10.0	72.0	132.0	10.0	72.0	132.0	10.0	72.0	132.0	10.0	72.0	132.0
12.0	74.0	134.0	12.0	74.0	134.0	12.0	74.0	134.0	12.0	74.0	134.0
14.0	76.0	136.0	14.0	76.0	136.0	14.0	76.0	136.0	14.0	76.0	136.0
16.0	78.0	138.0	16.0	78.0	138.0	16.0	78.0	138.0	16.0	78.0	138.0
18.0	80.0	140.0	18.0	80.0	140.0	18.0	80.0	140.0	18.0	80.0	140.0
20.0	82.0	142.0	20.0	82.0	142.0	20.0	82.0	142.0	20.0	82.0	142.0
22.0	84.0	144.0	22.0	84.0	144.0	22.0	84.0	144.0	22.0	84.0	144.0
24.0	86.0	146.0	24.0	86.0	146.0	24.0	86.0	146.0	24.0	86.0	146.0
26.0	88.0	148.0	26.0	88.0	148.0	26.0	88.0	148.0	26.0	88.0	148.0
28.0	90.0	150.0	28.0	90.0	150.0	28.0	90.0	150.0	28.0	90.0	150.0
30.0	92.0	152.0	30.0	92.0	152.0	30.0	92.0	152.0	30.0	92.0	152.0
32.0	94.0	154.0	32.0	94.0	154.0	32.0	94.0	154.0	32.0	94.0	154.0
34.0	96.0	156.0	34.0	96.0	156.0	34.0	96.0	156.0	34.0	96.0	156.0
36.0	98.0	158.0	36.0	98.0	158.0	36.0	98.0	158.0	36.0	98.0	158.0
38.0	100.0	160.0	38.0	100.0	160.0	38.0	100.0	160.0	38.0	100.0	160.0
40.0	102.0	162.0	40.0	102.0	162.0	40.0	102.0	162.0	40.0	102.0	162.0
42.0	104.0	164.0	42.0	104.0	164.0	42.0	104.0	164.0	42.0	104.0	164.0
44.0	106.0	166.0	44.0	106.0	166.0	44.0	106.0	166.0	44.0	106.0	166.0
46.0	108.0	168.0	46.0	108.0	168.0	46.0	108.0	168.0	46.0	108.0	168.0
48.0	110.0	170.0	48.0	110.0	170.0	48.0	110.0	170.0	48.0	110.0	170.0
50.0	112.0	172.0	50.0	112.0	172.0	50.0	112.0	172.0	50.0	112.0	172.0
52.0	114.0	174.0	52.0	114.0	174.0	52.0	114.0	174.0	52.0	114.0	174.0
54.0	116.0	176.0	54.0	116.0	176.0	54.0	116.0	176.0	54.0	116.0	176.0
56.0	118.0	178.0	56.0	118.0	178.0	56.0	118.0	178.0	56.0	118.0	178.0
58.0	120.0	180.0	58.0	120.0	180.0	58.0	120.0	180.0	58.0	120.0	180.0
60.0	120.0	180.0	60.0	120.0	180.0	60.0	120.0	180.0	60.0	120.0	180.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=12.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.5261E-01	9.5261E-01	62.0	1.0501E+00	1.0206E+00	122.0	1.6041E+00	1.1878E+00	180.0	1.7210E+02	1.7210E+02
2.0	9.5458E-01	9.5303E-01	64.0	9.6179E-01	1.0211E+00	124.0	1.5664E+00	1.2225E+00			
4.0	9.6099E-01	9.5446E-01	66.0	8.8165E-01	1.0170E+00	126.0	1.1077E+00	1.2600E+00			
6.0	9.7284E-01	9.5723E-01	68.0	8.5221E-01	1.0106E+00	128.0	5.2149E-01	1.2965E+00			
8.0	9.9063E-01	9.6175E-01	70.0	8.9522E-01	1.0059E+00	130.0	2.3418E-01	1.3262E+00			
10.0	1.0133E+00	9.6830E-01	72.0	9.9625E-01	1.0061E+00	132.0	5.1375E-01	1.3438E+00			
12.0	1.0378E+00	9.7677E-01	74.0	1.1067E+00	1.0124E+00	134.0	1.2433E+00	1.3529E+00			
14.0	1.0592E+00	9.8650E-01	76.0	1.1655E+00	1.0225E+00	136.0	1.9571E+00	1.3747E+00			
16.0	1.0718E+00	9.9690E-01	78.0	1.1322E+00	1.0320E+00	138.0	2.1427E+00	1.4429E+00			
18.0	1.0713E+00	1.0050E+00	80.0	1.0139E+00	1.0364E+00	140.0	1.6125E+00	1.5784E+00			
20.0	1.0553E+00	1.0130E+00	82.0	8.6893E-01	1.0340E+00	142.0	6.9479E-01	1.7566E+00			
22.0	1.0258E+00	1.0106E+00	84.0	7.8028E-01	1.0271E+00	144.0	5.3470E-02	1.9007E+00			
24.0	9.8846E-01	1.0164E+00	86.0	8.0914E-01	1.0210E+00	146.0	2.5238E-01	1.9290E+00			
26.0	9.5227E-01	1.0128E+00	88.0	9.5311E-01	1.0214E+00	148.0	1.3457E+00	1.8447E+00			
28.0	9.2744E-01	1.0069E+00	90.0	1.1375E+00	1.0305E+00	150.0	2.7917E+00	1.8006E+00			
30.0	9.2252E-01	1.0034E+00	92.0	1.2507E+00	1.0454E+00	152.0	3.7856E+00	2.0500E+00			
32.0	9.4112E-01	9.9528E-01	94.0	1.2105E+00	1.0597E+00	154.0	3.7415E+00	2.7582E+00			
34.0	9.7960E-01	9.9302E-01	96.0	1.0218E+00	1.0668E+00	156.0	2.6906E+00	3.7702E+00			
36.0	1.0268E+00	9.9432E-01	98.0	7.8799E-01	1.0648E+00	158.0	1.2854E+00	4.5505E+00			
38.0	1.0669E+00	9.9872E-01	100.0	6.5795E-01	1.0580E+00	160.0	5.5109E-01	4.4884E+00			
40.0	1.0844E+00	1.0047E+00	102.0	7.3237E-01	1.0545E+00	162.0	1.6503E+00	3.5655E+00			
42.0	1.0708E+00	1.0103E+00	104.0	9.8851E-01	1.0610E+00	164.0	5.8498E+00	3.0708E+00			
44.0	1.0287E+00	1.0134E+00	106.0	1.2752E+00	1.0784E+00	166.0	1.4625E+01	5.8334E+00			
46.0	9.7313E-01	1.0129E+00	108.0	1.3980E+00	1.1010E+00	168.0	2.9542E+01	1.5535E+01			
48.0	9.2665E-01	1.0093E+00	110.0	1.2488E+00	1.1201E+00	170.0	5.1607E+01	3.5104E+01			
50.0	9.1061E-01	1.0041E+00	112.0	8.9571E-01	1.1302E+00	172.0	8.0226E+01	6.4797E+01			
52.0	9.3540E-01	9.9989E-01	114.0	5.6242E-01	1.1322E+00	174.0	1.1234E+02	1.0098E+02			
54.0	9.9389E-01	9.9886E-01	116.0	4.9146E-01	1.1332E+00	176.0	1.4249E+02	1.3644E+02			
56.0	1.0621E+00	1.0020E+00	118.0	7.7165E-01	1.1410E+00	178.0	1.6418E+02	1.6250E+02			
58.0	1.1079E+00	1.0084E+00	120.0	1.2498E+00	1.1595E+00	180.0	1.7210E+02	1.7210E+02			
60.0	1.1058E+00	1.0157E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=13.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0503E+00	1.0503E+00	62.0	1.1078E+00	1.0154E+00	122.0	1.4848E+00	1.1797E+00
2.0	1.0439E+00	1.0479E+00	64.0	1.0545E+00	1.0207E+00	124.0	1.6518E+00	1.2122E+00
4.0	1.0267E+00	1.0413E+00	66.0	9.6371E-01	1.0214E+00	126.0	1.3422E+00	1.2502E+00
6.0	1.0037E+00	1.0314E+00	68.0	8.7960E-01	1.0174E+00	128.0	7.4936E-01	1.2906E+00
8.0	9.8186E-01	1.0230E+00	70.0	8.4945E-01	1.0111E+00	130.0	2.7974E-01	1.3270E+00
10.0	9.6750E-01	1.0039E+00	72.0	8.9720E-01	1.0066E+00	132.0	3.3104E-01	1.3514E+00
12.0	9.6473E-01	9.9949E-01	74.0	1.0058E+00	1.0073E+00	134.0	9.5083E-01	1.3615E+00
14.0	9.7450E-01	9.9436E-01	76.0	1.1204E+00	1.0142E+00	136.0	1.7505E+00	1.3734E+00
16.0	9.9376E-01	9.9250E-01	78.0	1.1742E+00	1.0248E+00	138.0	2.1803E+00	1.4224E+00
18.0	1.0166E+00	9.9443E-01	80.0	1.1269E+00	1.0342E+00	140.0	1.8647E+00	1.5417E+00
20.0	1.0356E+00	9.9879E-01	82.0	9.9368E-01	1.0378E+00	142.0	9.8289E-01	1.7233E+00
22.0	1.0435E+00	1.0041E+00	84.0	8.4506E-01	1.0344E+00	144.0	1.6748E-01	1.8968E+00
24.0	1.0360E+00	1.0087E+00	86.0	7.7149E-01	1.0273E+00	146.0	9.9518E-02	1.9642E+00
26.0	1.0137E+00	1.0110E+00	88.0	8.2921E-01	1.0223E+00	148.0	1.0125E+00	1.8937E+00
28.0	9.8261E-01	1.0105E+00	90.0	9.9820E-01	1.0249E+00	150.0	2.4877E+00	1.8086E+00
30.0	9.5335E-01	1.0072E+00	92.0	1.1829E+00	1.0363E+00	152.0	3.6925E+00	1.9767E+00
32.0	9.3771E-01	1.0023E+00	94.0	1.2630E+00	1.0521E+00	154.0	3.9140E+00	2.6190E+00
34.0	9.4421E-01	9.9757E-01	96.0	1.1704E+00	1.0651E+00	156.0	3.0214E+00	3.6542E+00
36.0	9.7389E-01	9.9469E-01	98.0	9.4368E-01	1.0695E+00	158.0	1.5757E+00	4.5669E+00
38.0	1.0185E+00	9.9453E-01	100.0	7.1887E-01	1.0654E+00	160.0	6.0818E-01	4.6683E+00
40.0	1.0622E+00	9.9842E-01	102.0	6.5098E-01	1.0591E+00	162.0	1.3505E+00	3.7757E+00
42.0	1.0871E+00	1.0041E+00	104.0	8.0829E-01	1.0592E+00	164.0	5.1687E+00	3.0539E+00
44.0	1.0804E+00	1.0100E+00	106.0	1.1102E+00	1.0706E+00	166.0	1.3662E+01	5.3623E+00
46.0	1.0411E+00	1.0139E+00	108.0	1.3611E+00	1.0914E+00	168.0	2.8557E+01	1.4639E+01
48.0	9.8206E-01	1.0144E+00	110.0	1.3735E+00	1.1138E+00	170.0	5.1045E+01	3.4210E+01
50.0	9.2686E-01	1.0113E+00	112.0	1.1057E+00	1.1297E+00	172.0	8.0648E+01	6.4647E+01
52.0	9.0041E-01	1.0061E+00	114.0	7.1541E-01	1.1364E+00	174.0	1.1423E+02	1.0232E+02
54.0	9.1768E-01	1.0013E+00	116.0	4.7461E-01	1.1380E+00	176.0	1.4601E+02	1.3962E+02
56.0	9.7489E-01	9.9943E-01	118.0	5.8435E-01	1.1424E+00	178.0	1.6899E+02	1.6721E+02
58.0	1.0483E+00	1.0019E+00	120.0	1.0131E+00	1.1558E+00	180.0	1.7739E+02	1.7739E+02
60.0	1.1027E+00	1.0081E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=13.2

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE			E-PLANE		
ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE
0.0	1.0886E+00	62.0	1.0890E+00	1.0886E+00	1.0886E+00	1.0886E+00	1.0886E+00	1.0886E+00	1.0886E+00	1.0886E+00	1.0886E+00
2.0	1.0897E+00	64.0	1.1155E+00	1.0156E+00	1.0156E+00	1.0156E+00	1.0156E+00	1.0156E+00	1.0156E+00	1.0156E+00	1.0156E+00
4.0	1.0648E+00	66.0	1.0618E+00	1.0212E+00	1.0212E+00	1.0212E+00	1.0212E+00	1.0212E+00	1.0212E+00	1.0212E+00	1.0212E+00
6.0	1.0288E+00	68.0	9.6608E-01	1.0220E+00	1.0220E+00	1.0220E+00	1.0220E+00	1.0220E+00	1.0220E+00	1.0220E+00	1.0220E+00
8.0	9.8997E-01	70.0	8.7778E-01	1.0180E+00	1.0180E+00	1.0180E+00	1.0180E+00	1.0180E+00	1.0180E+00	1.0180E+00	1.0180E+00
10.0	9.5310E-01	72.0	8.4884E-01	1.0117E+00	1.0117E+00	1.0117E+00	1.0117E+00	1.0117E+00	1.0117E+00	1.0117E+00	1.0117E+00
12.0	9.2838E-01	74.0	9.0383E-01	1.0076E+00	1.0076E+00	1.0076E+00	1.0076E+00	1.0076E+00	1.0076E+00	1.0076E+00	1.0076E+00
14.0	9.2000E-01	76.0	1.0207E+00	1.0051E+00	1.0051E+00	1.0051E+00	1.0051E+00	1.0051E+00	1.0051E+00	1.0051E+00	1.0051E+00
16.0	9.2998E-01	78.0	1.1364E+00	1.0169E+00	1.0169E+00	1.0169E+00	1.0169E+00	1.0169E+00	1.0169E+00	1.0169E+00	1.0169E+00
18.0	9.5637E-01	80.0	1.1792E+00	1.0279E+00	1.0279E+00	1.0279E+00	1.0279E+00	1.0279E+00	1.0279E+00	1.0279E+00	1.0279E+00
20.0	9.9299E-01	82.0	1.1121E+00	1.0368E+00	1.0368E+00	1.0368E+00	1.0368E+00	1.0368E+00	1.0368E+00	1.0368E+00	1.0368E+00
22.0	1.0303E+00	84.0	9.6271E-01	1.0392E+00	1.0392E+00	1.0392E+00	1.0392E+00	1.0392E+00	1.0392E+00	1.0392E+00	1.0392E+00
24.0	1.0575E+00	86.0	8.1532E-01	1.0347E+00	1.0347E+00	1.0347E+00	1.0347E+00	1.0347E+00	1.0347E+00	1.0347E+00	1.0347E+00
26.0	1.0659E+00	88.0	7.6561E-01	1.0275E+00	1.0275E+00	1.0275E+00	1.0275E+00	1.0275E+00	1.0275E+00	1.0275E+00	1.0275E+00
28.0	1.0521E+00	90.0	8.5879E-01	1.0241E+00	1.0241E+00	1.0241E+00	1.0241E+00	1.0241E+00	1.0241E+00	1.0241E+00	1.0241E+00
30.0	1.0202E+00	92.0	1.0510E+00	1.0294E+00	1.0294E+00	1.0294E+00	1.0294E+00	1.0294E+00	1.0294E+00	1.0294E+00	1.0294E+00
32.0	9.8135E-01	94.0	1.2244E+00	1.0430E+00	1.0430E+00	1.0430E+00	1.0430E+00	1.0430E+00	1.0430E+00	1.0430E+00	1.0430E+00
34.0	9.5012E-01	96.0	1.2569E+00	1.0591E+00	1.0591E+00	1.0591E+00	1.0591E+00	1.0591E+00	1.0591E+00	1.0591E+00	1.0591E+00
36.0	9.3663E-01	98.0	1.1059E+00	1.0699E+00	1.0699E+00	1.0699E+00	1.0699E+00	1.0699E+00	1.0699E+00	1.0699E+00	1.0699E+00
38.0	9.5586E-01	100.0	8.5191E-01	1.0713E+00	1.0713E+00	1.0713E+00	1.0713E+00	1.0713E+00	1.0713E+00	1.0713E+00	1.0713E+00
40.0	9.9421E-01	102.0	6.6063E-01	1.0650E+00	1.0650E+00	1.0650E+00	1.0650E+00	1.0650E+00	1.0650E+00	1.0650E+00	1.0650E+00
42.0	1.0400E+00	104.0	6.7757E-01	1.0613E+00	1.0613E+00	1.0613E+00	1.0613E+00	1.0613E+00	1.0613E+00	1.0613E+00	1.0613E+00
44.0	1.0734E+00	106.0	9.1866E-01	1.0660E+00	1.0660E+00	1.0660E+00	1.0660E+00	1.0660E+00	1.0660E+00	1.0660E+00	1.0660E+00
46.0	1.0773E+00	108.0	1.2377E+00	1.0823E+00	1.0823E+00	1.0823E+00	1.0823E+00	1.0823E+00	1.0823E+00	1.0823E+00	1.0823E+00
48.0	1.0458E+00	110.0	1.4094E+00	1.1052E+00	1.1052E+00	1.1052E+00	1.1052E+00	1.1052E+00	1.1052E+00	1.1052E+00	1.1052E+00
50.0	9.8871E-01	112.0	1.2851E+00	1.1256E+00	1.1256E+00	1.1256E+00	1.1256E+00	1.1256E+00	1.1256E+00	1.1256E+00	1.1256E+00
52.0	9.2943E-01	114.0	9.1793E-01	1.1380E+00	1.1380E+00	1.1380E+00	1.1380E+00	1.1380E+00	1.1380E+00	1.1380E+00	1.1380E+00
54.0	8.9611E-01	116.0	5.5365E-01	1.1424E+00	1.1424E+00	1.1424E+00	1.1424E+00	1.1424E+00	1.1424E+00	1.1424E+00	1.1424E+00
56.0	9.0834E-01	118.0	4.7278E-01	1.1455E+00	1.1455E+00	1.1455E+00	1.1455E+00	1.1455E+00	1.1455E+00	1.1455E+00	1.1455E+00
58.0	9.6570E-01	120.0	7.7918E-01	1.1547E+00	1.1547E+00	1.1547E+00	1.1547E+00	1.1547E+00	1.1547E+00	1.1547E+00	1.1547E+00
60.0	1.0445E+00										

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=13.4

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE
0.0	1.0530E+00	1.0530E+00	62.0	1.0464E+00	1.0024E+00	122.0	1.0594E+00	1.1705E+00	122.0	1.0594E+00	1.1705E+00
2.0	1.0500E+00	1.0522E+00	64.0	1.1121E+00	1.0097E+00	124.0	1.0453E+00	1.1950E+00	124.0	1.0453E+00	1.1950E+00
4.0	1.0410E+00	1.0436E+00	66.0	1.1210E+00	1.0166E+00	126.0	1.6591E+00	1.2289E+00	126.0	1.6591E+00	1.2289E+00
6.0	1.0266E+00	1.0457E+00	68.0	1.0632E+00	1.0222E+00	128.0	1.2621E+00	1.2713E+00	128.0	1.2621E+00	1.2713E+00
8.0	1.0075E+00	1.0317E+00	70.0	9.6086E-01	1.0230E+00	130.0	6.1333E-01	1.3180E+00	130.0	6.1333E-01	1.3180E+00
10.0	9.8544E-01	1.0319E+00	72.0	8.6954E-01	1.0187E+00	132.0	2.1737E-01	1.3588E+00	132.0	2.1737E-01	1.3588E+00
12.0	9.6349E-01	1.0277E+00	74.0	8.4524E-01	1.0124E+00	134.0	4.4780E-01	1.3813E+00	134.0	4.4780E-01	1.3813E+00
14.0	9.4569E-01	1.0128E+00	76.0	9.1095E-01	1.0087E+00	136.0	1.2230E+00	1.3861E+00	136.0	1.2230E+00	1.3861E+00
16.0	9.3737E-01	1.0032E+00	78.0	1.0369E+00	1.0112E+00	138.0	2.0090E+00	1.4022E+00	138.0	2.0090E+00	1.4022E+00
18.0	9.4273E-01	9.9526E-01	80.0	1.1506E+00	1.0200E+00	140.0	2.1938E+00	1.4785E+00	140.0	2.1938E+00	1.4785E+00
20.0	9.6318E-01	9.9017E-01	82.0	1.1769E+00	1.0313E+00	142.0	1.5756E+00	1.6435E+00	142.0	1.5756E+00	1.6435E+00
22.0	9.9576E-01	9.8805E-01	84.0	1.0861E+00	1.0393E+00	144.0	5.8185E-01	1.8568E+00	144.0	5.8185E-01	1.8568E+00
24.0	1.0325E+00	9.9090E-01	86.0	9.2206E-01	1.0402E+00	146.0	1.0106E-02	2.0070E+00	146.0	1.0106E-02	2.0070E+00
26.0	1.0627E+00	9.9593E-01	88.0	7.8398E-01	1.0346E+00	148.0	4.4946E-01	1.9963E+00	148.0	4.4946E-01	1.9963E+00
28.0	1.0757E+00	1.0024E+00	90.0	7.6848E-01	1.0277E+00	150.0	1.8115E+00	1.8717E+00	150.0	1.8115E+00	1.8717E+00
30.0	1.0656E+00	1.0084E+00	92.0	9.0215E-01	1.0266E+00	152.0	3.3374E+00	1.8853E+00	152.0	3.3374E+00	1.8853E+00
32.0	1.0337E+00	1.0123E+00	94.0	1.1114E+00	1.0350E+00	154.0	4.0981E+00	2.3600E+00	154.0	4.0981E+00	2.3600E+00
34.0	9.8952E-01	1.0123E+00	96.0	1.2582E+00	1.0505E+00	156.0	3.6216E+00	3.3781E+00	156.0	3.6216E+00	3.3781E+00
36.0	9.4841E-01	1.0073E+00	98.0	1.2285E+00	1.0659E+00	158.0	2.2192E+00	4.5161E+00	158.0	2.2192E+00	4.5161E+00
38.0	9.2625E-01	1.0045E+00	100.0	1.0190E+00	1.0738E+00	160.0	8.7253E-01	4.9670E+00	160.0	8.7253E-01	4.9670E+00
40.0	9.3317E-01	9.9947E-01	102.0	7.5753E-01	1.0722E+00	162.0	9.2614E-01	4.2326E+00	162.0	9.2614E-01	4.2326E+00
42.0	9.6841E-01	9.9698E-01	104.0	6.2964E-01	1.0664E+00	164.0	3.9420E+00	3.1484E+00	164.0	3.9420E+00	3.1484E+00
44.0	1.0189E+00	9.9745E-01	106.0	7.4900E-01	1.0653E+00	166.0	1.1775E+01	4.5612E+00	166.0	1.1775E+01	4.5612E+00
46.0	1.0633E+00	1.0016E+00	108.0	1.0537E+00	1.0754E+00	168.0	2.6500E+01	1.2892E+01	168.0	2.6500E+01	1.2892E+01
48.0	1.0809E+00	1.0072E+00	110.0	1.3518E+00	1.0958E+00	170.0	4.9724E+01	3.2311E+01	170.0	4.9724E+01	3.2311E+01
50.0	1.0580E+00	1.0121E+00	112.0	1.3984E+00	1.1191E+00	172.0	8.1261E+01	6.4133E+01	172.0	8.1261E+01	6.4133E+01
52.0	1.0037E+00	1.0112E+00	114.0	1.1266E+00	1.1367E+00	174.0	1.1786E+02	1.0482E+02	174.0	1.1786E+02	1.0482E+02
54.0	9.4063E-01	1.0124E+00	116.0	7.1209E-01	1.1455E+00	176.0	1.5305E+02	1.4595E+02	176.0	1.5305E+02	1.4595E+02
56.0	9.0041E-01	1.0078E+00	118.0	4.5500E-01	1.1494E+00	178.0	1.7876E+02	1.7677E+02	178.0	1.7876E+02	1.7677E+02
58.0	9.0736E-01	1.0027E+00	120.0	5.8665E-01	1.1559E+00	180.0	1.8822E+02	1.8822E+02	180.0	1.8822E+02	1.8822E+02
60.0	9.6410E-01	1.0003E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=13.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.6163E-01	9.6163E-01	62.0	9.6040E-01	1.0014E+00	122.0	8.2219E-01	1.1697E+00	122.0	8.2219E-01	1.1697E+00
2.0	9.6717E-01	9.6371E-01	64.0	1.0455E+00	1.0035E+00	124.0	1.3706E+00	1.1897E+00	124.0	1.3706E+00	1.1897E+00
4.0	9.8227E-01	9.6961E-01	66.0	1.1133E+00	1.0099E+00	126.0	1.6871E+00	1.2198E+00	126.0	1.6871E+00	1.2198E+00
6.0	1.0027E+00	9.7823E-01	68.0	1.1211E+00	1.0179E+00	128.0	1.4811E+00	1.2600E+00	128.0	1.4811E+00	1.2600E+00
8.0	1.0223E+00	9.8923E-01	70.0	1.0558E+00	1.0234E+00	130.0	8.5877E-01	1.3089E+00	130.0	8.5877E-01	1.3089E+00
10.0	1.0348E+00	9.9771E-01	72.0	9.4716E-01	1.0237E+00	132.0	2.9311E-01	1.3572E+00	132.0	2.9311E-01	1.3572E+00
12.0	1.0356E+00	1.0051E+00	74.0	8.5597E-01	1.0190E+00	134.0	2.8347E-01	1.3893E+00	134.0	2.8347E-01	1.3893E+00
14.0	1.0239E+00	1.0093E+00	76.0	8.4130E-01	1.0127E+00	136.0	9.3350E-01	1.3975E+00	136.0	9.3350E-01	1.3975E+00
16.0	1.0032E+00	1.0099E+00	78.0	9.2199E-01	1.0098E+00	138.0	1.8139E+00	1.4026E+00	138.0	1.8139E+00	1.4026E+00
18.0	9.8094E-01	1.0073E+00	80.0	1.0577E+00	1.0135E+00	140.0	2.2431E+00	1.4558E+00	140.0	2.2431E+00	1.4558E+00
20.0	9.6583E-01	1.0029E+00	82.0	1.1656E+00	1.0234E+00	142.0	1.8386E+00	1.6023E+00	142.0	1.8386E+00	1.6023E+00
22.0	9.6474E-01	9.9827E-01	84.0	1.1694E+00	1.0347E+00	144.0	8.5312E-01	1.8231E+00	144.0	8.5312E-01	1.8231E+00
24.0	9.7975E-01	9.9512E-01	86.0	1.0517E+00	1.0415E+00	146.0	7.4226E-02	2.0117E+00	146.0	7.4226E-02	2.0117E+00
26.0	1.0067E+00	9.9461E-01	88.0	8.7687E-01	1.0406E+00	148.0	2.4218E-01	2.0435E+00	148.0	2.4218E-01	2.0435E+00
28.0	1.0361E+00	9.9699E-01	90.0	7.5865E-01	1.0340E+00	150.0	1.4866E+00	1.9198E+00	150.0	1.4866E+00	1.9198E+00
30.0	1.0560E+00	1.0015E+00	92.0	7.8798E-01	1.0283E+00	152.0	3.0853E+00	1.8683E+00	152.0	3.0853E+00	1.8683E+00
32.0	1.0567E+00	1.0066E+00	94.0	9.6356E-01	1.0302E+00	154.0	4.1025E+00	2.2474E+00	154.0	4.1025E+00	2.2474E+00
34.0	1.0348E+00	1.0164E+00	96.0	1.1776E+00	1.0417E+00	156.0	3.8748E+00	3.2259E+00	156.0	3.8748E+00	3.2259E+00
36.0	9.9583E-01	1.0116E+00	98.0	1.2775E+00	1.0585E+00	158.0	2.5571E+00	4.4508E+00	158.0	2.5571E+00	4.4508E+00
38.0	9.5355E-01	1.0096E+00	100.0	1.1729E+00	1.0721E+00	160.0	1.0720E+00	5.0840E+00	160.0	1.0720E+00	5.0840E+00
40.0	9.2549E-01	1.0052E+00	102.0	9.1359E-01	1.0765E+00	162.0	8.0058E-01	4.4702E+00	162.0	8.0058E-01	4.4702E+00
42.0	9.2580E-01	1.0003E+00	104.0	6.7464E-01	1.0727E+00	164.0	3.3918E+00	3.2546E+00	164.0	3.3918E+00	3.2546E+00
44.0	9.5805E-01	9.9702E-01	106.0	6.4202E-01	1.0682E+00	166.0	1.0854E+01	4.2340E+00	166.0	1.0854E+01	4.2340E+00
46.0	1.0115E+00	9.9700E-01	108.0	8.6957E-01	1.0719E+00	168.0	2.5430E+01	1.2050E+01	168.0	2.5430E+01	1.2050E+01
48.0	1.0638E+00	1.0005E+00	110.0	1.2154E+00	1.0876E+00	170.0	4.8965E+01	3.1318E+01	170.0	4.8965E+01	3.1318E+01
50.0	1.0896E+00	1.0063E+00	112.0	1.4230E+00	1.1107E+00	172.0	8.1451E+01	6.3776E+01	172.0	8.1451E+01	6.3776E+01
52.0	1.0734E+00	1.0118E+00	114.0	1.3078E+00	1.1325E+00	174.0	1.1960E+02	1.0598E+02	174.0	1.1960E+02	1.0598E+02
54.0	1.0188E+00	1.0146E+00	116.0	9.1786E-01	1.1464E+00	176.0	1.5659E+02	1.4912E+02	176.0	1.5659E+02	1.4912E+02
56.0	9.5009E-01	1.0134E+00	118.0	5.3117E-01	1.1531E+00	178.0	1.8375E+02	1.8164E+02	178.0	1.8375E+02	1.8164E+02
58.0	9.0234E-01	1.0090E+00	120.0	4.6530E-01	1.1586E+00	180.0	1.9376E+02	1.9376E+02	180.0	1.9376E+02	1.9376E+02
60.0	9.0416E-01	1.0040E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=13.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.1476E-01	9.1476E-01	62.0	6.9628E-01	1.0049E+00	122.0	6.1618E-01	1.1708E+00
2.0	9.2309E-01	9.1755E-01	64.0	9.5473E-01	1.0023E+00	124.0	1.1451E+00	1.1868E+00
4.0	9.4663E-01	9.2566E-01	66.0	1.0442E+00	1.0044E+00	126.0	1.6224E+00	1.2122E+00
6.0	9.8108E-01	9.3822E-01	68.0	1.1141E+00	1.0111E+00	128.0	1.6305E+00	1.2489E+00
8.0	1.0196E+00	9.5397E-01	70.0	1.1184E+00	1.0191E+00	130.0	1.1193E+00	1.2977E+00
10.0	1.0538E+00	9.7032E-01	72.0	1.0453E+00	1.0243E+00	132.0	4.4817E-01	1.3517E+00
12.0	1.0754E+00	9.8707E-01	74.0	9.3090E-01	1.0240E+00	134.0	1.9819E-01	1.3942E+00
14.0	1.0787E+00	1.0007E+00	76.0	8.4334E-01	1.0188E+00	136.0	6.6246E-01	1.4099E+00
16.0	1.0627E+00	1.0101E+00	78.0	8.4352E-01	1.0127E+00	138.0	1.5654E+00	1.4091E+00
18.0	1.0315E+00	1.0145E+00	80.0	9.4283E-01	1.0109E+00	140.0	2.2172E+00	1.4405E+00
20.0	9.9398E-01	1.0142E+00	82.0	1.0870E+00	1.0163E+00	142.0	2.0558E+00	1.5634E+00
22.0	9.6144E-01	1.0102E+00	84.0	1.1826E+00	1.0273E+00	144.0	1.1451E+00	1.7826E+00
24.0	9.4403E-01	1.0044E+00	86.0	1.1559E+00	1.0382E+00	146.0	2.0533E-01	2.0045E+00
26.0	9.4750E-01	9.9891E-01	88.0	1.0088E+00	1.0433E+00	148.0	9.6050E-02	2.0839E+00
28.0	9.7080E-01	9.9561E-01	90.0	8.3010E-01	1.0405E+00	150.0	1.1312E+00	1.9750E+00
30.0	1.0057E+00	9.9547E-01	92.0	7.4505E-01	1.0336E+00	152.0	2.7913E+00	1.8699E+00
32.0	1.0387E+00	9.9834E-01	94.0	8.2809E-01	1.0298E+00	154.0	4.0483E+00	2.1498E+00
34.0	1.0559E+00	1.0030E+00	96.0	1.0414E+00	1.0353E+00	156.0	4.0889E+00	3.0693E+00
36.0	1.0484E+00	1.0075E+00	98.0	1.2397E+00	1.0499E+00	158.0	2.8971E+00	4.3610E+00
38.0	1.0173E+00	1.0100E+00	100.0	1.2697E+00	1.0667E+00	160.0	1.3100E+00	5.1753E+00
40.0	9.7439E-01	1.0095E+00	102.0	1.0841E+00	1.0775E+00	162.0	7.3118E-01	4.7074E+00
42.0	9.3908E-01	1.0062E+00	104.0	7.9724E-01	1.0783E+00	164.0	2.9057E+00	3.3958E+00
44.0	9.2980E-01	1.0017E+00	106.0	6.2078E-01	1.0734E+00	166.0	9.9559E+00	3.9565E+00
46.0	9.5487E-01	9.9820E-01	108.0	7.1033E-01	1.0721E+00	168.0	2.4341E+01	1.1232E+01
48.0	1.0064E+00	9.9766E-01	110.0	1.0309E+00	1.0818E+00	170.0	4.8147E+01	3.0293E+01
50.0	1.0618E+00	1.0007E+00	112.0	1.3546E+00	1.1022E+00	172.0	8.1564E+01	6.3348E+01
52.0	1.0928E+00	1.0064E+00	114.0	1.4171E+00	1.1260E+00	174.0	1.2128E+02	1.0708E+02
54.0	1.0794E+00	1.0121E+00	116.0	1.1304E+00	1.1447E+00	176.0	1.6011E+02	1.5227E+02
56.0	1.0236E+00	1.0153E+00	118.0	8.8469E-01	1.1555E+00	178.0	1.8879E+02	1.8657E+02
58.0	9.4988E-01	1.0144E+00	120.0	4.3241E-01	1.1620E+00	180.0	1.9939E+02	1.9939E+02
60.0	8.9672E-01	1.0101E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=14.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.5556E-01	9.5556E-01	62.0	8.9064E-01	1.0104E+00	122.0	4.7222E-01	1.1731E+00
2.0	9.5811E-01	9.5820E-01	64.0	8.9145E-01	1.0052E+00	124.0	9.0343E-01	1.1861E+00
4.0	9.6612E-01	9.5823E-01	66.0	9.5524E-01	1.0027E+00	126.0	1.4755E+00	1.2070E+00
6.0	9.8018E-01	9.6194E-01	68.0	1.0505E+00	1.0053E+00	128.0	1.7118E+00	1.2391E+00
8.0	9.9992E-01	9.6750E-01	70.0	1.1211E+00	1.0124E+00	130.0	1.3619E+00	1.2853E+00
10.0	1.0230E+00	9.7523E-01	72.0	1.1184E+00	1.0205E+00	132.0	6.6264E-01	1.3426E+00
12.0	1.0443E+00	9.8439E-01	74.0	1.0343E+00	1.0253E+00	134.0	1.9876E-01	1.3951E+00
14.0	1.0598E+00	9.9414E-01	76.0	9.1391E-01	1.0242E+00	136.0	4.3497E-01	1.4213E+00
16.0	1.0626E+00	1.0032E+00	78.0	8.3366E-01	1.0185E+00	138.0	1.2842E+00	1.4201E+00
18.0	1.0503E+00	1.0101E+00	80.0	8.5393E-01	1.0129E+00	140.0	2.1110E+00	1.4330E+00
20.0	1.0244E+00	1.0138E+00	82.0	9.7386E-01	1.0127E+00	142.0	2.2134E+00	1.5290E+00
22.0	9.3036E-01	1.0138E+00	84.0	1.1219E+00	1.0195E+00	144.0	1.4404E+00	1.7378E+00
24.0	9.5768E-01	1.0104E+00	86.0	1.1951E+00	1.0319E+00	146.0	3.9521E-01	1.9854E+00
26.0	9.3692E-01	1.0019E+00	88.0	1.1295E+00	1.0419E+00	148.0	1.5758E-02	2.1151E+00
28.0	9.3035E-01	9.9918E-01	90.0	9.5393E-01	1.0448E+00	150.0	8.2715E-01	2.0340E+00
30.0	9.5827E-01	9.9508E-01	92.0	7.8377E-01	1.0402E+00	152.0	2.4753E+00	1.8887E+00
32.0	9.9673E-01	9.9394E-01	94.0	7.4786E-01	1.0336E+00	154.0	3.9385E+00	2.0695E+00
34.0	1.0382E+00	9.9622E-01	96.0	8.9149E-01	1.0328E+00	156.0	4.2595E+00	2.9125E+00
36.0	1.0662E+00	1.0001E+00	98.0	1.1274E+00	1.0423E+00	158.0	3.2309E+00	4.2486E+00
38.0	1.0875E+00	1.0061E+00	100.0	1.2825E+00	1.0590E+00	160.0	1.5807E+00	5.2390E+00
40.0	1.0395E+00	1.0098E+00	102.0	1.2218E+00	1.0748E+00	162.0	7.1635E-01	4.9386E+00
42.0	9.9273E-01	1.0106E+00	104.0	9.6298E-01	1.0815E+00	164.0	2.4657E+00	3.5683E+00
44.0	9.4802E-01	1.0091E+00	106.0	6.8725E-01	1.0793E+00	166.0	9.0869E+00	3.7289E+00
46.0	9.2766E-01	1.0038E+00	108.0	6.1728E-01	1.0753E+00	168.0	2.3210E+01	1.0442E+01
48.0	9.4436E-01	9.9899E-01	110.0	8.3940E-01	1.0790E+00	170.0	4.7276E+01	2.9245E+01
50.0	9.9311E-01	9.9867E-01	112.0	1.2095E+00	1.0947E+00	172.0	8.1602E+01	6.2850E+01
52.0	1.0511E+00	1.0011E+00	114.0	1.4373E+00	1.1181E+00	174.0	1.2290E+02	1.0810E+02
54.0	1.0872E+00	1.0065E+00	116.0	1.3100E+00	1.1408E+00	176.0	1.6363E+02	1.5539E+02
56.0	1.0781E+00	1.0123E+00	118.0	8.8681E-01	1.1558E+00	178.0	1.9387E+02	1.9153E+02
58.0	1.0226E+00	1.0156E+00	120.0	4.9123E-01	1.1648E+00	180.0	2.0508E+02	2.0508E+02
60.0	9.4622E-01	1.0148E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=14.2

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0406E+00	1.0406E+00	62.0	9.4586E-01	1.0149E+00	122.0	4.1134E-01	1.1757E+00
2.0	1.0345E+00	1.0383E+00	64.0	8.8894E-01	1.0105E+00	124.0	6.8028E-01	1.1870E+00
4.0	1.0182E+00	1.0319E+00	66.0	8.9309E-01	1.0054E+00	126.0	1.2605E+00	1.2042E+00
6.0	9.9762E-01	1.0226E+00	68.0	9.6386E-01	1.0033E+00	128.0	1.6905E+00	1.2311E+00
8.0	9.7991E-01	1.0126E+00	70.0	1.0642E+00	1.0066E+00	130.0	1.5624E+00	1.2730E+00
10.0	9.7121E-01	1.0035E+00	72.0	1.1316E+00	1.0143E+00	132.0	9.1371E-01	1.3308E+00
12.0	9.7450E-01	9.9698E-01	74.0	1.1163E+00	1.0224E+00	134.0	2.8362E-01	1.3916E+00
14.0	9.8864E-01	9.9404E-01	76.0	1.0175E+00	1.0205E+00	136.0	2.6917E-01	1.4303E+00
16.0	1.0086E+00	9.9472E-01	78.0	8.9226E-01	1.0244E+00	138.0	9.9577E-01	1.4339E+00
18.0	1.0268E+00	9.9814E-01	80.0	8.2486E-01	1.0193E+00	140.0	1.9366E+00	1.4331E+00
20.0	1.0356E+00	1.0028E+00	82.0	8.7081E-01	1.0136E+00	142.0	2.3021E+00	1.5009E+00
22.0	1.0300E+00	1.0069E+00	84.0	1.0115E+00	1.0152E+00	144.0	1.7210E+00	1.6913E+00
24.0	1.0103E+00	1.0090E+00	86.0	1.1554E+00	1.0244E+00	146.0	6.3250E-01	1.9557E+00
26.0	9.8264E-01	1.0083E+00	88.0	1.1948E+00	1.0367E+00	148.0	3.7935E-03	2.1351E+00
28.0	9.5820E-01	1.0051E+00	90.0	1.0846E+00	1.0453E+00	150.0	5.5710E-01	2.0933E+00
30.0	9.4860E-01	1.0007E+00	92.0	8.8797E-01	1.0457E+00	152.0	2.1394E+00	1.9229E+00
32.0	9.5089E-01	9.9688E-01	94.0	7.4467E-01	1.0396E+00	154.0	3.7708E+00	2.0080E+00
34.0	9.9317E-01	9.9527E-01	96.0	7.7392E-01	1.0343E+00	156.0	4.3823E+00	2.7593E+00
36.0	1.0338E+00	9.9672E-01	98.0	9.7555E-01	1.0375E+00	158.0	3.5512E+00	4.1166E+00
38.0	1.0552E+00	1.0008E+00	100.0	1.2104E+00	1.0508E+00	160.0	1.8782E+00	5.2741E+00
40.0	1.0713E+00	1.0060E+00	102.0	1.2911E+00	1.0685E+00	162.0	7.5424E-01	5.1627E+00
42.0	1.0460E+00	1.0102E+00	104.0	1.1288E+00	1.0813E+00	164.0	2.0809E+00	3.7683E+00
44.0	9.9751E-01	1.0115E+00	106.0	8.2347E-01	1.0841E+00	166.0	8.2509E+00	3.5513E+00
46.0	9.4685E-01	1.0094E+00	108.0	6.1080E-01	1.0803E+00	168.0	2.2132E-01	9.6842E+00
48.0	9.1913E-01	1.0051E+00	110.0	6.8382E-01	1.0794E+00	170.0	4.6351E-01	2.8178E+01
50.0	9.3088E-01	1.0008E+00	112.0	1.0204E+00	1.0894E+00	172.0	8.1503E-01	6.2285E+01
52.0	9.7974E-01	9.9898E-01	114.0	1.3675E+00	1.1101E+00	174.0	1.2446E+02	1.0906E+02
54.0	1.0427E+00	1.0010E+00	116.0	1.4249E+00	1.1343E+00	176.0	1.6715E+02	1.5850E+02
56.0	1.0854E+00	1.0062E+00	118.0	1.1018E+00	1.1539E+00	178.0	1.9901E+02	1.9854E+02
58.0	1.0806E+00	1.0121E+00	120.0	6.3067E-01	1.1655E+00	180.0	2.1055E+02	2.1055E+02
60.0	1.0250E+00	1.0157E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=14.4

NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION	
E-PLANE		E-PLANE		E-PLANE		E-PLANE	
ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE
0.0	1.0857E+00	62.0	1.0282E+00	1.0161E+00	122.0	4.4295E-01	1.1779E+00
2.0	1.0765E+00	64.0	9.4432E-01	1.0154E+00	124.0	5.0762E-01	1.1889E+00
4.0	1.0511E+00	66.0	8.8654E-01	1.0108E+00	126.0	1.0318E+00	1.2035E+00
6.0	1.0156E+00	68.0	8.9605E-01	1.0059E+00	128.0	1.6002E+00	1.2256E+00
8.0	9.7844E-01	70.0	9.7508E-01	1.0044E+00	130.0	1.6969E+00	1.2618E+00
10.0	9.4822E-01	72.0	1.0788E+00	1.0085E+00	132.0	1.1730E+00	1.3173E+00
12.0	9.3218E-01	74.0	1.1384E+00	1.0167E+00	134.0	4.4251E-01	1.3839E+00
14.0	9.3431E-01	76.0	1.1056E+00	1.0246E+00	136.0	1.7902E-01	1.4356E+00
16.0	9.5417E-01	78.0	9.9069E-01	1.0277E+00	138.0	7.2114E-01	1.4487E+00
18.0	9.8636E-01	80.0	8.6497E-01	1.0244E+00	140.0	1.7073E+00	1.4399E+00
20.0	1.0213E+00	82.0	8.1842E-01	1.0180E+00	142.0	2.3160E+00	1.4806E+00
22.0	1.0476E+00	84.0	8.9567E-01	1.0146E+00	144.0	1.9696E+00	1.6456E+00
24.0	1.0558E+00	86.0	1.0544E+00	1.0185E+00	146.0	9.0322E-01	1.9170E+00
26.0	1.0426E+00	88.0	1.1835E+00	1.0295E+00	148.0	5.8941E-02	2.1430E+00
28.0	1.0127E+00	90.0	1.1776E+00	1.0416E+00	150.0	3.3339E-01	2.1499E+00
30.0	9.7820E-01	92.0	1.0220E+00	1.0479E+00	152.0	1.7971E+00	1.9701E+00
32.0	9.5424E-01	94.0	8.1895E-01	1.0456E+00	154.0	3.5678E+00	1.9664E+00
34.0	9.5252E-01	96.0	7.2488E-01	1.0389E+00	156.0	4.4535E+00	2.6138E+00
36.0	9.7549E-01	98.0	8.3107E-01	1.0344E+00	158.0	3.8506E+00	3.9685E+00
38.0	1.0140E+00	100.0	1.0772E+00	1.0441E+00	160.0	2.1932E+00	5.2805E+00
40.0	1.0499E+00	102.0	1.2765E+00	1.0606E+00	162.0	8.4216E-01	5.3730E+00
42.0	1.0843E+00	104.0	1.2534E+00	1.0775E+00	164.0	1.7517E+00	3.9920E+00
44.0	1.0463E+00	106.0	9.9544E-01	1.0862E+00	166.0	7.4496E+00	3.4230E+00
46.0	1.0010E+00	108.0	6.9108E-01	1.0855E+00	168.0	2.1016E+01	6.9623E+00
48.0	9.4866E-01	110.0	5.9821E-01	1.0824E+00	170.0	4.5372E+01	2.7097E+01
50.0	9.1689E-01	112.0	8.2845E-01	1.0868E+00	172.0	8.1445E+01	6.1658E+01
52.0	9.2604E-01	114.0	1.2241E+00	1.1031E+00	174.0	1.2597E+02	1.0995E+02
54.0	9.7630E-01	116.0	1.4557E+00	1.1269E+00	176.0	1.7066E+02	1.6160E+02
56.0	1.0439E+00	118.0	1.4557E+00	1.1488E+00	178.0	2.0421E+02	2.0181E+02
58.0	1.0913E+00	120.0	1.2921E+00	1.1488E+00	180.0	2.1671E+02	2.1671E+02
60.0	1.0873E+00		8.2619E-01	1.1653E+00			

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=14.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0488E+00	1.0489E+00	62.0	1.0894E+00	1.0135E+00	122.0	5.5614E-01	1.1790E+00
2.0	1.0453E+00	1.0478E+00	64.0	1.0239E+00	1.0170E+00	124.0	4.0856E-01	1.1912E+00
4.0	1.0350E+00	1.0445E+00	66.0	9.3512E-01	1.0159E+00	126.0	7.9419E-01	1.2046E+00
6.0	1.0189E+00	1.0400E+00	68.0	8.7903E-01	1.0111E+00	128.0	1.4296E+00	1.2227E+00
8.0	9.9853E-01	1.0331E+00	70.0	8.9760E-01	1.0063E+00	130.0	1.7501E+00	1.2527E+00
10.0	9.7689E-01	1.0245E+00	72.0	9.8703E-01	1.0055E+00	132.0	1.4122E+00	1.3034E+00
12.0	9.5768E-01	1.0151E+00	74.0	1.0928E+00	1.0106E+00	134.0	6.5779E-01	1.3726E+00
14.0	9.4634E-01	1.0057E+00	76.0	1.1404E+00	1.0193E+00	136.0	1.7042E-01	1.4365E+00
16.0	9.4761E-01	9.9757E-01	78.0	1.0864E+00	1.0267E+00	138.0	4.8244E-01	1.4827E+00
18.0	9.6377E-01	9.9212E-01	80.0	9.5657E-01	1.0283E+00	140.0	1.4394E+00	1.4521E+00
20.0	9.9249E-01	9.9020E-01	82.0	8.3750E-01	1.0239E+00	142.0	2.2542E+00	1.4687E+00
22.0	1.0262E+00	9.9192E-01	84.0	8.2101E-01	1.0176E+00	144.0	2.1710E+00	1.6034E+00
24.0	1.0537E+00	9.9650E-01	86.0	9.3340E-01	1.0161E+00	146.0	1.1919E+00	1.8714E+00
26.0	1.0643E+00	1.0027E+00	88.0	1.1035E+00	1.0227E+00	148.0	1.7712E-01	2.1382E+00
28.0	1.0523E+00	1.0075E+00	90.0	1.2033E+00	1.0351E+00	150.0	1.6341E-01	2.2007E+00
30.0	1.0204E+00	1.0101E+00	92.0	1.1416E+00	1.0461E+00	152.0	1.4549E+00	2.0274E+00
32.0	9.8004E-01	1.0096E+00	94.0	9.4578E-01	1.0495E+00	154.0	3.3111E+00	1.9449E+00
34.0	9.4740E-01	1.0063E+00	96.0	7.5833E-01	1.0448E+00	156.0	4.4708E+00	2.4791E+00
36.0	9.3725E-01	1.0019E+00	98.0	7.3689E-01	1.0399E+00	158.0	4.1229E+00	3.8076E+00
38.0	9.5571E-01	9.9815E-01	100.0	9.2237E-01	1.0405E+00	160.0	2.5249E+00	5.2582E+00
40.0	9.9600E-01	9.9717E-01	102.0	1.1844E+00	1.0529E+00	162.0	9.7643E-01	5.5668E+00
42.0	1.0397E+00	9.9938E-01	104.0	1.3061E+00	1.0710E+00	164.0	1.4780E+00	4.2353E+00
44.0	1.0645E+00	1.0038E+00	106.0	1.1603E+00	1.0852E+00	166.0	6.6854E+00	3.3433E+00
46.0	1.0550E+00	1.0084E+00	108.0	8.3711E-01	1.0895E+00	168.0	1.9896E+01	8.2789E+00
48.0	1.0127E+00	1.0107E+00	110.0	5.9939E-01	1.0859E+00	170.0	4.4342E+01	2.6005E+01
50.0	9.5803E-01	1.0097E+00	112.0	6.7332E-01	1.0871E+00	172.0	8.1249E+01	6.9372E+01
52.0	9.2145E-01	1.0059E+00	114.0	1.0364E+00	1.0980E+00	174.0	1.2741E+02	1.1078E+02
54.0	9.2730E-01	1.0016E+00	116.0	1.3978E+00	1.1195E+00	176.0	1.7416E+02	1.6468E+02
56.0	9.7785E-01	9.9967E-01	118.0	1.4241E+00	1.1400E+00	178.0	2.0946E+02	2.0673E+02
58.0	1.0480E+00	1.0017E+00	120.0	1.0437E+00	1.1643E+00	180.0	2.2265E+02	2.2265E+02
60.0	1.0965E+00	1.0072E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=14.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.6904E-01	9.6904E-01	62.0	1.0966E+00	1.0083E+00	122.0	7.3382E-01	1.1787E+00
2.0	9.7438E-01	9.7105E-01	64.0	1.0849E+00	1.0145E+00	124.0	3.9515E-01	1.1930E+00
4.0	9.8864E-01	9.7667E-01	66.0	1.0126E+00	1.0177E+00	126.0	5.8869E-01	1.2066E+00
6.0	1.0070E+00	9.8473E-01	68.0	9.2072E-01	1.0160E+00	128.0	1.2088E+00	1.2221E+00
8.0	1.0228E+00	9.9355E-01	70.0	8.7054E-01	1.0109E+00	130.0	1.7168E+00	1.2462E+00
10.0	1.0299E+00	1.0013E+00	72.0	9.0278E-01	1.0064E+00	132.0	1.6056E+00	1.2902E+00
12.0	1.0249E+00	1.0085E+00	74.0	1.0047E+00	1.0067E+00	134.0	9.0694E-01	1.3586E+00
14.0	1.0094E+00	1.0083E+00	76.0	1.1101E+00	1.0129E+00	136.0	2.4224E-01	1.4325E+00
16.0	9.8933E-01	1.0069E+00	78.0	1.1402E+00	1.0200E+00	138.0	2.9713E-01	1.4742E+00
18.0	9.7366E-01	1.0033E+00	80.0	1.0615E+00	1.0285E+00	140.0	1.1530E+00	1.4680E+00
20.0	9.7019E-01	9.9906E-01	82.0	9.1933E-01	1.0285E+00	142.0	2.1214E+00	1.4652E+00
22.0	9.8202E-01	9.9606E-01	84.0	8.1606E-01	1.0230E+00	144.0	2.3135E+00	1.5667E+00
24.0	1.0056E+00	9.9509E-01	86.0	8.3879E-01	1.0176E+00	146.0	1.4827E+00	1.8213E+00
26.0	1.0313E+00	9.9765E-01	88.0	9.8627E-01	1.0185E+00	148.0	3.5140E-01	2.1208E+00
28.0	1.0473E+00	1.0017E+00	90.0	1.1549E+00	1.0279E+00	150.0	5.2606E-02	2.2429E+00
30.0	1.0443E+00	1.0061E+00	92.0	1.2073E+00	1.0410E+00	152.0	1.1359E+00	2.0917E+00
32.0	1.0204E+00	1.0089E+00	94.0	1.0827E+00	1.0500E+00	154.0	3.0262E+00	1.9430E+00
34.0	9.8359E-01	1.0090E+00	96.0	8.6110E-01	1.0500E+00	156.0	4.4348E+00	2.3583E+00
36.0	9.4952E-01	1.0063E+00	98.0	7.1852E-01	1.0440E+00	158.0	4.3629E+00	3.6375E+00
38.0	9.3523E-01	1.0021E+00	100.0	7.8932E-01	1.0405E+00	160.0	2.8701E+00	5.2076E+00
40.0	9.5065E-01	9.9825E-01	102.0	1.0408E+00	1.0471E+00	162.0	1.1547E+00	5.7406E+00
42.0	9.9187E-01	9.9608E-01	104.0	1.2743E+00	1.0635E+00	164.0	1.2599E+00	4.4938E+00
44.0	1.0407E+00	9.9880E-01	106.0	1.2769E+00	1.0812E+00	166.0	5.9623E+00	3.3105E+00
46.0	1.0718E+00	1.0033E+00	108.0	1.0124E+00	1.0912E+00	168.0	1.8780E-01	7.6361E+00
48.0	1.0664E+00	1.0082E+00	110.0	6.8397E-01	1.0916E+00	170.0	4.3269E+01	2.4906E+01
50.0	1.0234E+00	1.0111E+00	112.0	5.8546E-01	1.0897E+00	172.0	8.0979E-01	6.0223E+01
52.0	9.6390E-01	1.0105E+00	114.0	8.4162E-01	1.0955E+00	174.0	1.2878E+02	1.1154E+02
54.0	9.2169E-01	1.0069E+00	116.0	1.2630E+00	1.1130E+00	176.0	1.7765E+02	1.6774E+02
56.0	9.2457E-01	1.0025E+00	118.0	1.4750E+00	1.1373E+00	178.0	2.1477E+02	2.1190E+02
58.0	9.7590E-01	1.0005E+00	120.0	1.2460E+00	1.1605E+00	180.0	2.2868E+02	2.2868E+02
60.0	1.0483E+00	1.0027E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=15.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.2526E-01	9.2526E-01	62.0	1.0499E+00	1.0034E+00	122.0	9.4616E-01	1.1765E+00
2.0	9.3392E-01	9.2818E-01	64.0	1.0979E+00	1.0093E+00	124.0	4.6760E-01	1.1938E+00
4.0	9.5802E-01	9.3657E-01	66.0	1.0801E+00	1.0154E+00	126.0	4.4145E-01	1.2088E+00
6.0	9.9214E-01	9.4933E-01	68.0	1.0001E+00	1.0181E+00	128.0	9.6628E-01	1.2232E+00
8.0	1.0280E+00	9.6476E-01	70.0	9.0696E-01	1.0158E+00	130.0	1.6025E+00	1.2424E+00
10.0	1.0552E+00	9.8073E-01	72.0	8.6683E-01	1.0105E+00	132.0	1.7338E+00	1.2788E+00
12.0	1.0687E+00	9.9501E-01	74.0	9.1670E-01	1.0087E+00	134.0	1.1657E+00	1.3431E+00
14.0	1.0616E+00	1.0057E+00	76.0	1.0310E+00	1.0083E+00	136.0	3.8651E-01	1.4237E+00
16.0	1.0371E+00	1.0115E+00	78.0	1.1306E+00	1.0158E+00	138.0	1.8023E-01	1.4816E+00
18.0	1.0032E+00	1.0125E+00	80.0	1.1355E+00	1.0250E+00	140.0	8.6951E-01	1.4857E+00
20.0	9.7142E-01	1.0094E+00	82.0	1.0285E+00	1.0302E+00	142.0	1.9279E+00	1.4695E+00
22.0	9.5303E-01	1.0043E+00	84.0	8.7966E-01	1.0284E+00	144.0	2.3878E+00	1.5371E+00
24.0	9.5471E-01	9.9923E-01	86.0	8.0404E-01	1.0222E+00	146.0	1.7604E+00	1.7692E+00
26.0	9.7574E-01	9.9621E-01	88.0	8.7380E-01	1.0183E+00	148.0	5.7202E-01	2.0916E+00
28.0	1.0074E+00	9.9622E-01	90.0	1.0501E+00	1.0242E+00	150.0	4.1863E-03	2.2745E+00
30.0	1.0357E+00	9.9899E-01	92.0	1.1976E+00	1.0342E+00	152.0	8.3893E-01	2.1597E+00
32.0	1.0470E+00	1.0031E+00	94.0	1.1844E+00	1.0459E+00	154.0	2.7124E+00	1.9595E+00
34.0	1.0342E+00	1.0067E+00	96.0	9.9849E-01	1.0528E+00	156.0	4.3475E+00	2.2538E+00
36.0	1.0017E+00	1.0081E+00	98.0	7.7812E-01	1.0497E+00	158.0	4.5644E+00	3.4819E+00
38.0	9.6478E-01	1.0055E+00	100.0	7.1371E-01	1.0438E+00	160.0	3.2133E+00	5.1299E+00
40.0	9.4347E-01	1.0030E+00	102.0	8.8450E-01	1.0444E+00	162.0	1.3712E+00	5.8915E+00
42.0	9.5197E-01	9.9935E-01	104.0	1.1676E+00	1.0564E+00	164.0	1.0974E+00	4.7631E+00
44.0	9.8972E-01	9.9772E-01	106.0	1.3176E+00	1.0749E+00	166.0	5.2848E+00	3.3229E+00
46.0	1.0391E+00	9.9931E-01	108.0	1.1751E+00	1.0900E+00	168.0	1.7673E+01	7.0362E+00
48.0	1.0728E+00	1.0036E+00	110.0	8.3090E-01	1.0952E+00	170.0	4.2157E+01	2.3802E+01
50.0	1.0687E+00	1.0068E+00	112.0	5.8122E-01	1.0927E+00	172.0	8.0636E+01	5.9414E+01
52.0	1.0240E+00	1.0117E+00	114.0	6.7790E-01	1.0955E+00	174.0	1.3009E+02	1.1222E+02
54.0	9.6061E-01	1.0111E+00	116.0	1.0781E+00	1.1081E+00	176.0	1.8113E+02	1.7077E+02
56.0	9.1520E-01	1.0074E+00	118.0	1.4378E+00	1.1304E+00	178.0	2.2012E+02	2.1710E+02
58.0	9.1828E-01	1.0030E+00	120.0	1.4004E+00	1.1522E+00	180.0	2.3477E+02	2.3477E+02
60.0	9.7352E-01	1.0010E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=15.2

ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE	ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE	ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE	ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE
0.0	9.5815E-01	9.5815E-01	62.0	9.7839E-01	1.0013E+00	122.0	1.1611E+00	1.1728E+00			
2.0	9.6128E-01	9.5900E-01	64.0	1.0590E+00	1.0042E+00	124.0	5.1416E-01	1.1930E+00			
4.0	9.7054E-01	9.6153E-01	66.0	1.1041E+00	1.0105E+00	126.0	3.7170E-01	1.2104E+00			
6.0	9.8681E-01	9.6623E-01	68.0	1.0764E+00	1.0166E+00	128.0	7.3314E-01	1.2254E+00			
8.0	1.0078E+00	9.7208E-01	70.0	9.8650E-01	1.0186E+00	130.0	1.4225E+00	1.2412E+00			
10.0	1.0301E+00	9.8129E-01	72.0	8.9365E-01	1.0156E+00	132.0	1.7814E+00	1.2699E+00			
12.0	1.0480E+00	9.9057E-01	74.0	8.6795E-01	1.0102E+00	134.0	1.4075E+00	1.3273E+00			
14.0	1.0554E+00	9.9975E-01	76.0	9.3837E-01	1.0073E+00	136.0	5.8977E-01	1.4109E+00			
16.0	1.0484E+00	1.0071E+00	78.0	1.0623E+00	1.0106E+00	138.0	1.3978E-01	1.4842E+00			
18.0	1.0271E+00	1.0114E+00	80.0	1.1475E+00	1.0193E+00	140.0	6.0976E-01	1.5032E+00			
20.0	9.9649E-01	1.0120E+00	82.0	1.1169E+00	1.0281E+00	142.0	1.6874E+00	1.4806E+00			
22.0	9.6586E-01	1.0092E+00	84.0	9.8360E-01	1.0315E+00	144.0	2.3963E+00	1.5160E+00			
24.0	9.4619E-01	1.0043E+00	86.0	8.3897E-01	1.0278E+00	146.0	2.0101E+00	1.7177E+00			
26.0	9.4610E-01	9.9904E-01	88.0	8.0531E-01	1.0216E+00	148.0	8.2933E-01	2.0520E+00			
28.0	9.6760E-01	9.9515E-01	90.0	9.2612E-01	1.0202E+00	150.0	1.8721E-02	2.2937E+00			
30.0	1.0037E+00	9.9430E-01	92.0	1.1171E+00	1.0277E+00	152.0	5.7723E-01	2.2280E+00			
32.0	1.0397E+00	9.9739E-01	94.0	1.2190E+00	1.0411E+00	154.0	2.3819E+00	1.9930E+00			
34.0	1.0591E+00	1.0018E+00	96.0	1.1272E+00	1.0520E+00	156.0	4.2110E+00	2.1677E+00			
36.0	1.0511E+00	1.0061E+00	98.0	8.9597E-01	1.0542E+00	158.0	4.7290E+00	3.2848E+00			
38.0	1.0178E+00	1.0095E+00	100.0	7.1529E-01	1.0489E+00	160.0	3.5519E+00	5.0270E+00			
40.0	9.7466E-01	1.0073E+00	102.0	7.5808E-01	1.0451E+00	162.0	1.6219E+00	6.0173E+00			
42.0	9.4444E-01	1.0046E+00	104.0	1.0155E+00	1.0512E+00	164.0	9.9003E-01	5.0388E+00			
44.0	9.4523E-01	1.0004E+00	106.0	1.2747E+00	1.0576E+00	166.0	4.6552E+00	3.3786E+00			
46.0	9.7942E-01	9.9871E-01	108.0	1.2884E+00	1.0859E+00	168.0	1.6579E+01	6.4816E+00			
48.0	1.0295E+00	9.9930E-01	110.0	1.0070E+00	1.0966E+00	170.0	4.1006E+01	2.2698E+01			
50.0	1.0671E+00	1.0038E+00	112.0	6.6008E-01	1.0978E+00	172.0	8.0219E+01	5.8548E+01			
52.0	1.0657E+00	1.0087E+00	114.0	5.7738E-01	1.0975E+00	174.0	1.3133E+02	1.1283E+02			
54.0	1.0211E+00	1.0118E+00	116.0	8.7902E-01	1.1053E+00	176.0	1.8459E+02	1.7377E+02			
56.0	9.5592E-01	1.0112E+00	118.0	1.3215E+00	1.1242E+00	178.0	2.2552E+02	2.2236E+02			
58.0	9.1018E-01	1.0074E+00	120.0	1.4831E+00	1.1490E+00	180.0	2.4094E+02	2.4094E+02			
60.0	9.1632E-01	1.0030E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=15.4

NORMALIZED CROSS SECTION E-PLANE		NORMALIZED CROSS SECTION H-PLANE		ANGLE	NORMALIZED CROSS SECTION E-PLANE		NORMALIZED CROSS SECTION H-PLANE		ANGLE	NORMALIZED CROSS SECTION E-PLANE		NORMALIZED CROSS SECTION H-PLANE	
ANGLE													
0.0	1.0326E+00	1.0326E+00	1.0326E+00	62.0	9.2122E-01	1.0031E+00	1.0031E+00	1.0031E+00	122.0	1.3446E+00	1.1678E+00	1.1678E+00	1.1678E+00
2.0	1.0268E+00	1.0304E+00	1.0304E+00	64.0	9.8962E-01	1.0019E+00	1.0019E+00	1.0019E+00	124.0	8.1214E-01	1.1908E+00	1.1908E+00	1.1908E+00
4.0	1.0117E+00	1.0244E+00	1.0244E+00	66.0	1.0723E+00	1.0055E+00	1.0055E+00	1.0055E+00	126.0	3.8720E-01	1.2110E+00	1.2110E+00	1.2110E+00
6.0	9.9369E-01	1.0160E+00	1.0160E+00	68.0	1.1098E+00	1.0122E+00	1.0122E+00	1.0122E+00	128.0	5.3807E-01	1.2279E+00	1.2279E+00	1.2279E+00
8.0	9.8014E-01	1.0072E+00	1.0072E+00	70.0	1.0675E+00	1.0180E+00	1.0180E+00	1.0180E+00	130.0	1.1952E+00	1.2422E+00	1.2422E+00	1.2422E+00
10.0	9.7656E-01	1.0000E+00	1.0000E+00	72.0	9.6655E-01	1.0192E+00	1.0192E+00	1.0192E+00	132.0	1.7530E+00	1.2640E+00	1.2640E+00	1.2640E+00
12.0	9.8447E-01	9.9576E-01	9.9576E-01	74.0	8.7773E-01	1.0153E+00	1.0153E+00	1.0153E+00	134.0	1.6039E+00	1.3126E+00	1.3126E+00	1.3126E+00
14.0	1.0006E+00	9.9504E-01	9.9504E-01	76.0	8.7228E-01	1.0100E+00	1.0100E+00	1.0100E+00	136.0	8.3152E-01	1.3950E+00	1.3950E+00	1.3950E+00
16.0	1.0181E+00	9.9735E-01	9.9735E-01	78.0	9.6539E-01	1.0085E+00	1.0085E+00	1.0085E+00	138.0	1.7742E-01	1.4814E+00	1.4814E+00	1.4814E+00
18.0	1.0288E+00	1.0013E+00	1.0013E+00	80.0	1.0936E+00	1.0136E+00	1.0136E+00	1.0136E+00	140.0	3.9207E-01	1.5186E+00	1.5186E+00	1.5186E+00
20.0	1.0267E+00	1.0052E+00	1.0052E+00	82.0	1.1544E+00	1.0232E+00	1.0232E+00	1.0232E+00	142.0	1.4158E+00	1.4970E+00	1.4970E+00	1.4970E+00
22.0	1.0106E+00	1.0073E+00	1.0073E+00	84.0	1.0863E+00	1.0310E+00	1.0310E+00	1.0310E+00	144.0	2.3326E+00	1.5040E+00	1.5040E+00	1.5040E+00
24.0	9.8631E-01	1.0069E+00	1.0069E+00	86.0	9.2855E-01	1.0320E+00	1.0320E+00	1.0320E+00	146.0	2.2181E+00	1.6695E+00	1.6695E+00	1.6695E+00
26.0	9.6473E-01	1.0041E+00	1.0041E+00	88.0	8.0449E-01	1.0268E+00	1.0268E+00	1.0268E+00	148.0	1.1081E+00	2.0041E+00	2.0041E+00	2.0041E+00
28.0	9.5755E-01	1.0002E+00	1.0002E+00	90.0	8.2689E-01	1.0215E+00	1.0215E+00	1.0215E+00	150.0	9.4130E-02	2.2999E+00	2.2999E+00	2.2999E+00
30.0	9.7124E-01	9.9697E-01	9.9697E-01	92.0	9.9555E-01	1.0234E+00	1.0234E+00	1.0234E+00	152.0	3.5908E-01	2.2935E+00	2.2935E+00	2.2935E+00
32.0	1.0024E+00	9.9603E-01	9.9603E-01	94.0	1.1782E+00	1.0342E+00	1.0342E+00	1.0342E+00	154.0	2.0433E+00	2.0411E+00	2.0411E+00	2.0411E+00
34.0	1.0376E+00	9.9796E-01	9.9796E-01	96.0	1.2090E+00	1.0479E+00	1.0479E+00	1.0479E+00	156.0	4.0280E+00	2.1016E+00	2.1016E+00	2.1016E+00
36.0	1.0591E+00	1.0020E+00	1.0020E+00	98.0	1.0369E+00	1.0558E+00	1.0558E+00	1.0558E+00	158.0	4.8464E+00	3.1101E+00	3.1101E+00	3.1101E+00
38.0	1.0533E+00	1.0064E+00	1.0064E+00	100.0	7.9254E-01	1.0531E+00	1.0531E+00	1.0531E+00	160.0	3.8796E+00	4.9011E+00	4.9011E+00	4.9011E+00
40.0	1.0199E+00	1.0090E+00	1.0090E+00	102.0	6.9559E-01	1.0484E+00	1.0484E+00	1.0484E+00	162.0	1.9024E+00	6.1162E+00	6.1162E+00	6.1162E+00
42.0	9.7342E-01	1.0085E+00	1.0085E+00	104.0	8.5898E-01	1.0489E+00	1.0489E+00	1.0489E+00	164.0	9.3636E-01	5.3171E+00	5.3171E+00	5.3171E+00
44.0	9.3821E-01	1.0054E+00	1.0054E+00	106.0	1.1617E+00	1.0609E+00	1.0609E+00	1.0609E+00	166.0	4.0748E+00	3.4753E+00	3.4753E+00	3.4753E+00
46.0	9.3537E-01	1.0014E+00	1.0014E+00	108.0	1.3280E+00	1.0798E+00	1.0798E+00	1.0798E+00	168.0	1.5499E+01	5.9741E+00	5.9741E+00	5.9741E+00
48.0	9.6974E-01	9.9893E-01	9.9893E-01	110.0	1.1734E+00	1.0953E+00	1.0953E+00	1.0953E+00	170.0	3.9820E+01	2.1600E+01	2.1600E+01	2.1600E+01
50.0	1.0241E+00	9.9973E-01	9.9973E-01	112.0	8.0420E-01	1.1009E+00	1.1009E+00	1.1009E+00	172.0	7.9726E+01	5.7631E+01	5.7631E+01	5.7631E+01
52.0	1.0665E+00	1.0037E+00	1.0037E+00	114.0	5.5887E-01	1.1007E+00	1.1007E+00	1.1007E+00	174.0	1.3251E+02	1.1337E+02	1.1337E+02	1.1337E+02
54.0	1.0679E+00	1.0086E+00	1.0086E+00	116.0	7.0353E-01	1.1047E+00	1.1047E+00	1.1047E+00	176.0	1.8804E+02	1.7675E+02	1.7675E+02	1.7675E+02
56.0	1.0223E+00	1.0119E+00	1.0119E+00	118.0	1.1484E+00	1.1194E+00	1.1194E+00	1.1194E+00	178.0	2.3098E+02	2.2766E+02	2.2766E+02	2.2766E+02
58.0	9.5482E-01	1.0112E+00	1.0112E+00	120.0	1.4820E+00	1.1426E+00	1.1426E+00	1.1426E+00	180.0	2.4720E+02	2.4720E+02	2.4720E+02	2.4720E+02
60.0	9.0941E-01	1.0073E+00	1.0073E+00										

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=15.6

NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION	
E-PLANE		E-PLANE		E-PLANE	
ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE
0.0	1.0748E+00	62.0	9.0686E-01	122.0	1.4684E+00
2.0	1.0654E+00	64.0	9.2557E-01	124.0	1.0313E+00
4.0	1.0399E+00	66.0	1.0014E+00	126.0	4.8304E-01
6.0	1.0053E+00	68.0	1.0838E+00	128.0	4.0471E-01
8.0	9.7138E-01	70.0	1.1093E+00	130.0	9.5571E-01
10.0	9.4732E-01	72.0	1.0494E+00	132.0	1.6411E+00
12.0	9.3985E-01	74.0	9.3957E-01	134.0	1.7507E+00
14.0	9.5104E-01	76.0	8.6149E-01	136.0	1.0806E+00
16.0	9.7736E-01	78.0	8.8309E-01	138.0	2.8813E-01
18.0	1.0099E+00	80.0	9.9928E-01	140.0	2.3121E-01
20.0	1.0370E+00	82.0	1.1236E+00	142.0	1.1300E+00
22.0	1.0479E+00	84.0	1.1492E+00	144.0	2.2015E+00
24.0	1.0379E+00	86.0	1.0390E+00	146.0	2.3731E+00
26.0	1.0113E+00	88.0	8.7090E-01	148.0	1.3956E+00
28.0	9.8037E-01	90.0	7.8728E-01	150.0	2.2508E-01
30.0	9.6044E-01	92.0	8.7559E-01	152.0	1.9012E-01
32.0	9.6250E-01	94.0	1.0780E+00	154.0	1.7074E+00
34.0	9.8692E-01	96.0	1.2209E+00	156.0	3.8025E+00
36.0	1.0219E+00	98.0	1.1594E+00	158.0	4.9154E+00
38.0	1.0482E+00	100.0	9.2222E-01	160.0	4.1508E+00
40.0	1.0491E+00	102.0	7.1245E-01	162.0	2.2077E+00
42.0	1.0202E+00	104.0	7.3845E-01	164.0	9.3499E-01
44.0	9.7464E-01	106.0	1.0076E+00	166.0	3.5416E+00
46.0	9.3775E-01	108.0	1.2863E+00	168.0	1.4437E+01
48.0	9.3367E-01	110.0	1.2934E+00	170.0	3.8600E+01
50.0	9.6953E-01	112.0	9.8166E-01	172.0	7.9161E+01
52.0	1.0277E+00	114.0	6.2377E-01	174.0	1.3361E+02
54.0	1.0728E+00	116.0	5.8328E-01	176.0	1.5147E+02
56.0	1.0732E+00	118.0	9.4947E-01	178.0	2.3649E+02
58.0	1.0230E+00	120.0	1.3983E+00	180.0	2.5355E+02
60.0	9.5132E-01				

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=15.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0452E+00	1.0452E+00	62.0	9.4087E-01	1.0117E+00	122.0	1.5141E+00	1.1562E+00
2.0	1.0412E+00	1.0412E+00	64.0	9.0026E-01	1.0074E+00	124.0	1.2311E+00	1.1823E+00
4.0	1.0297E+00	1.0406E+00	66.0	9.2950E-01	1.0036E+00	126.0	6.4605E-01	1.2080E+00
6.0	1.0121E+00	1.0350E+00	68.0	1.0142E+00	1.0039E+00	128.0	3.4629E-01	1.2312E+00
8.0	9.9112E-01	1.0274E+00	70.0	1.0942E+00	1.0091E+00	130.0	7.2219E-01	1.2482E+00
10.0	9.7059E-01	1.0184E+00	72.0	1.1038E+00	1.0162E+00	132.0	1.4681E+00	1.2615E+00
12.0	9.5565E-01	1.0090E+00	74.0	1.0249E+00	1.0205E+00	134.0	1.8181E+00	1.2906E+00
14.0	9.5166E-01	1.0005E+00	76.0	9.1051E-01	1.0191E+00	136.0	1.3386E+00	1.3594E+00
16.0	9.6213E-01	9.9436E-01	78.0	8.5170E-01	1.0138E+00	138.0	4.6166E-01	1.4604E+00
18.0	9.8613E-01	9.9134E-01	80.0	9.0628E-01	1.0100E+00	140.0	1.3788E-01	1.5373E+00
20.0	1.0171E+00	9.9240E-01	82.0	1.0421E+00	1.0125E+00	142.0	8.5135E-01	1.5382E+00
22.0	1.0438E+00	9.9626E-01	84.0	1.1501E+00	1.0213E+00	144.0	2.0143E+00	1.5088E+00
24.0	1.0551E+00	1.0015E+00	86.0	1.1290E+00	1.0309E+00	146.0	2.4674E+00	1.5916E+00
26.0	1.0447E+00	1.0062E+00	88.0	9.7906E-01	1.0346E+00	148.0	1.6779E+00	1.8925E+00
28.0	1.0152E+00	1.0085E+00	90.0	8.1946E-01	1.0307E+00	150.0	4.0777E-01	2.2718E+00
30.0	9.7870E-01	1.0078E+00	92.0	7.9711E-01	1.0248E+00	152.0	7.5985E-02	2.4046E+00
32.0	9.5179E-01	1.0045E+00	94.0	9.5206E-01	1.0251E+00	154.0	1.3789E+00	2.1712E+00
34.0	9.4631E-01	1.0005E+00	96.0	1.1606E+00	1.0351E+00	156.0	3.5405E+00	2.0314E+00
36.0	9.7149E-01	9.9777E-01	98.0	1.2276E+00	1.0495E+00	158.0	4.9333E+00	2.7819E+00
38.0	1.0107E+00	9.9780E-01	100.0	1.0658E+00	1.0587E+00	160.0	4.4806E+00	4.5911E+00
40.0	1.0449E+00	1.0006E+00	102.0	8.0137E-01	1.0581E+00	162.0	2.5327E+00	6.2277E+00
42.0	1.0537E+00	1.0047E+00	104.0	6.8305E-01	1.0529E+00	164.0	9.8213E-01	5.8643E+00
44.0	1.0291E+00	1.0079E+00	106.0	8.5084E-01	1.0538E+00	166.0	3.0667E+00	3.7806E+00
46.0	9.8295E-01	1.0082E+00	108.0	1.1740E+00	1.0655E+00	168.0	1.3398E+01	5.1053E+00
48.0	9.4288E-01	1.0057E+00	110.0	1.3409E+00	1.0859E+00	170.0	3.7352E+01	1.9432E+01
50.0	9.3641E-01	1.0019E+00	112.0	1.1539E+00	1.1014E+00	172.0	7.8526E+01	5.5645E+01
52.0	9.7257E-01	9.9950E-01	114.0	7.5669E-01	1.1072E+00	174.0	1.9464E+02	1.1423E+02
54.0	1.0323E+00	1.0005E+00	116.0	5.3875E-01	1.1084E+00	176.0	1.9488E+02	1.8262E+02
56.0	1.0771E+00	1.0048E+00	118.0	7.5936E-01	1.1151E+00	178.0	2.4204E+02	2.3841E+02
58.0	1.0730E+00	1.0100E+00	120.0	1.2468E+00	1.1320E+00	180.0	2.5997E+02	2.5997E+02
60.0	1.0160E+00	1.0129E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=16.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.7530E-01	9.7530E-01	62.0	1.0038E+00	1.0134E+00	122.0	1.4762E+00	1.1507E+00			
2.0	9.8036E-01	9.7721E-01	64.0	9.2732E-01	1.0115E+00	124.0	1.4059E+00	1.1768E+00			
4.0	9.9358E-01	9.8250E-01	66.0	8.9366E-01	1.0076E+00	126.0	8.5141E-01	1.2042E+00			
6.0	1.0096E+00	9.8931E-01	68.0	9.3903E-01	1.0037E+00	128.0	3.7052E-01	1.2308E+00			
8.0	1.0215E+00	9.9743E-01	70.0	1.0330E+00	1.0051E+00	130.0	5.2649E-01	1.2513E+00			
10.0	1.0237E+00	1.0043E+00	72.0	1.1065E+00	1.0111E+00	132.0	1.2473E+00	1.2640E+00			
12.0	1.0115E+00	1.0040E+00	74.0	1.0951E+00	1.0189E+00	134.0	1.8076E+00	1.2845E+00			
14.0	9.9770E-01	1.0035E+00	76.0	9.9635E-01	1.0213E+00	136.0	1.5581E+00	1.3424E+00			
16.0	9.8150E-01	1.0031E+00	78.0	8.8338E-01	1.0185E+00	138.0	6.8203E-01	1.4436E+00			
18.0	9.7465E-01	1.0027E+00	80.0	8.5311E-01	1.0130E+00	140.0	1.1791E-01	1.5384E+00			
20.0	9.8206E-01	9.9704E-01	82.0	9.4383E-01	1.0108E+00	142.0	5.9574E-01	1.5588E+00			
22.0	1.0018E+00	9.9612E-01	84.0	1.0301E+00	1.0159E+00	144.0	1.7803E+00	1.5198E+00			
24.0	1.0249E+00	9.9774E-01	86.0	1.1649E+00	1.0260E+00	146.0	2.4969E+00	1.5650E+00			
26.0	1.0396E+00	1.0013E+00	88.0	1.0880E+00	1.0343E+00	148.0	1.9415E+00	1.8339E+00			
28.0	1.0362E+00	1.0041E+00	90.0	9.0222E-01	1.0350E+00	150.0	6.3110E-01	2.2387E+00			
30.0	1.0135E+00	1.0074E+00	92.0	7.8402E-01	1.0294E+00	152.0	1.8655E-02	2.4451E+00			
32.0	9.8014E-01	1.0071E+00	94.0	8.4016E-01	1.0253E+00	154.0	1.0719E+00	2.2469E+00			
34.0	9.5268E-01	1.0043E+00	96.0	1.0477E+00	1.0300E+00	156.0	3.2493E+00	2.0273E+00			
36.0	9.4713E-01	1.0003E+00	98.0	1.2218E+00	1.0433E+00	158.0	4.9124E+00	2.6348E+00			
38.0	9.6583E-01	9.9767E-01	100.0	1.1818E+00	1.0568E+00	160.0	4.7440E+00	4.4129E+00			
40.0	1.0116E+00	9.9753E-01	102.0	9.3592E-01	1.0614E+00	162.0	2.8719E+00	6.2387E+00			
42.0	1.0502E+00	1.0003E+00	104.0	7.0472E-01	1.0576E+00	164.0	1.0768E+00	6.1251E+00			
44.0	1.0621E+00	1.0016E+00	106.0	7.2845E-01	1.0545E+00	166.0	2.6429E+00	3.9830E+00			
46.0	1.0371E+00	1.0081E+00	108.0	1.0185E+00	1.0619E+00	168.0	1.2388E+01	4.7456E+00			
48.0	9.8714E-01	1.0047E+00	110.0	1.3068E+00	1.0795E+00	170.0	3.6083E+01	1.8368E+01			
50.0	9.4256E-01	1.0043E+00	112.0	1.2849E+00	1.0982E+00	172.0	7.7824E+01	5.4579E+01			
52.0	9.3402E-01	1.0025E+00	114.0	9.2979E-01	1.1086E+00	174.0	1.3560E+02	1.1455E+02			
54.0	9.7137E-01	1.0002E+00	116.0	5.7649E-01	1.1114E+00	176.0	1.9827E+02	1.8551E+02			
56.0	1.0332E+00	1.0013E+00	118.0	6.1118E-01	1.1156E+00	178.0	2.4764E+02	2.4383E+02			
58.0	1.0770E+00	1.0056E+00	120.0	1.0540E+00	1.1287E+00	180.0	2.6647E+02	2.6647E+02			
60.0	1.0674E+00	1.0109E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=16.2

NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE
ANGLE	E-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE	
0.0	9.3420E-01		9.3420E+00	1.0116E+00	122.0	1.3628E+00	1.1460E+00	
2.0	9.4311E-01		9.3722E-01	1.0116E+00	124.0	1.5089E+00	1.1710E+00	
4.0	9.6752E-01		9.4580E-01	1.0111E+00	126.0	1.0718E+00	1.1992E+00	
6.0	1.0008E+00		9.5861E-01	1.0065E+00	128.0	4.7275E-01	1.2287E+00	
8.0	1.0334E+00		9.7359E-01	1.0040E+00	130.0	3.8845E-01	1.2536E+00	
10.0	1.0552E+00		9.8830E-01	1.0067E+00	132.0	1.0053E+00	1.2679E+00	
12.0	1.0589E+00		1.0004E+00	1.0137E+00	134.0	1.7207E+00	1.2819E+00	
14.0	1.0433E+00		1.0788E+00	1.0203E+00	136.0	1.7293E+00	1.3275E+00	
16.0	1.0144E+00		9.6137E-01	1.0218E+00	138.0	9.3213E-01	1.4241E+00	
18.0	9.8313E-01		8.5936E-01	1.0176E+00	140.0	1.7129E-01	1.5335E+00	
20.0	9.6200E-01		8.6741E-01	1.0125E+00	142.0	3.8070E-01	1.5768E+00	
22.0	9.5851E-01		9.9289E-01	1.0127E+00	144.0	1.5150E+00	1.5388E+00	
24.0	9.7644E-01		1.1339E+00	1.0204E+00	146.0	2.4608E+00	1.5479E+00	
26.0	1.0648E+00		9.9656E-01	1.0309E+00	148.0	2.1711E+00	1.7770E+00	
28.0	1.0304E+00		9.9907E-01	1.0367E+00	150.0	8.8579E-01	2.1946E+00	
30.0	1.0395E+00		8.3826E-01	1.0344E+00	152.0	1.9202E-02	2.4731E+00	
32.0	1.0256E+00		7.7732E-01	1.0283E+00	154.0	7.9395E-01	2.3256E+00	
34.0	9.9491E-01		9.1798E-01	1.0277E+00	156.0	2.9358E+00	2.0428E+00	
36.0	9.6427E-01		1.1457E+00	1.0371E+00	158.0	4.8392E+00	2.5028E+00	
38.0	9.5297E-01		1.2384E+00	1.0519E+00	160.0	4.9764E+00	4.2237E+00	
40.0	9.7100E-01		1.0791E+00	1.0620E+00	162.0	3.2199E+00	6.2199E+00	
42.0	1.0110E+00		7.9629E-01	1.0621E+00	164.0	1.2156E+00	6.3727E+00	
44.0	1.0502E+00		6.7008E-01	1.0575E+00	166.0	2.2740E+00	4.2143E+00	
46.0	1.0624E+00		8.5724E-01	1.0594E+00	168.0	1.1410E+01	4.4367E+00	
48.0	1.0356E+00		1.2009E+00	1.0733E+00	170.0	3.4796E+01	1.7324E+01	
50.0	9.8250E-01		1.3488E+00	1.0931E+00	172.0	7.7054E+01	5.3470E+01	
52.0	9.3583E-01		1.1086E+00	1.1081E+00	174.0	1.3649E+02	1.1479E+02	
54.0	9.2870E-01		6.8821E-01	1.1139E+00	176.0	2.0163E+02	1.8836E+02	
56.0	9.7665E-01		5.3047E-01	1.1172E+00	178.0	2.5328E+02	2.4931E+02	
58.0	1.0365E+00		8.5271E-01	1.1269E+00	180.0	2.7304E+02	2.7304E+02	
60.0	1.0792E+00							

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=16.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.6047E-01	9.6047E-01	62.0	1.0855E+00	1.0077E+00	122.0	1.1927E+00	1.1424E+00
2.0	9.6417E-01	9.6152E-01	64.0	1.0582E+00	1.0126E+00	124.0	1.5312E+00	1.1656E+00
4.0	9.7522E-01	9.6474E-01	66.0	9.7848E-01	1.0139E+00	126.0	1.2709E+00	1.1935E+00
6.0	9.9286E-01	9.7017E-01	68.0	9.0565E-01	1.0107E+00	128.0	6.3832E-01	1.2249E+00
8.0	1.0144E+00	9.7764E-01	70.0	9.0229E-01	1.0062E+00	130.0	3.2416E-01	1.2544E+00
10.0	1.0348E+00	9.8863E-01	72.0	9.8054E-01	1.0048E+00	132.0	7.6812E-01	1.2724E+00
12.0	1.0475E+00	9.9509E-01	74.0	1.0826E+00	1.0090E+00	134.0	1.5609E+00	1.2866E+00
14.0	1.0471E+00	1.0076E+00	76.0	1.1203E+00	1.0166E+00	136.0	1.8311E+00	1.3158E+00
16.0	1.0318E+00	1.0009E+00	78.0	1.0498E+00	1.0222E+00	138.0	1.1849E+00	1.4035E+00
18.0	1.0051E+00	1.0105E+00	80.0	9.1982E-01	1.0218E+00	140.0	2.9241E-01	1.5229E+00
20.0	9.7578E-01	1.0017E+00	82.0	8.4235E-01	1.0165E+00	142.0	2.1912E-01	1.5907E+00
22.0	9.5510E-01	1.0014E+00	84.0	8.9709E-01	1.0127E+00	144.0	1.2313E+00	1.5617E+00
24.0	9.5262E-01	9.9954E-01	86.0	1.0493E+00	1.0158E+00	146.0	2.3610E+00	1.5408E+00
26.0	9.7120E-01	9.9614E-01	88.0	1.1639E+00	1.0256E+00	148.0	2.3614E+00	1.7243E+00
28.0	1.0041E+00	9.9555E-01	90.0	1.1214E+00	1.0353E+00	150.0	1.1604E+00	2.1416E+00
30.0	1.0362E+00	9.9788E-01	92.0	9.4051E-01	1.0378E+00	152.0	7.6309E-02	2.4875E+00
32.0	1.0511E+00	1.0013E+00	94.0	7.8300E-01	1.0330E+00	154.0	5.5012E-01	2.4040E+00
34.0	1.0394E+00	1.0056E+00	96.0	8.1236E-01	1.0284E+00	156.0	2.6071E+00	2.0755E+00
36.0	1.0059E+00	1.0070E+00	98.0	1.0242E+00	1.0324E+00	158.0	4.7146E+00	2.3884E+00
38.0	9.6869E-01	1.0057E+00	100.0	1.2221E+00	1.0458E+00	160.0	5.1732E+00	4.0272E+00
40.0	9.5026E-01	1.0025E+00	102.0	1.1929E+00	1.0597E+00	162.0	3.5712E+00	6.1720E+00
42.0	9.6373E-01	9.9954E-01	104.0	9.3338E-01	1.0650E+00	164.0	1.3958E+00	6.6038E+00
44.0	1.0031E+00	9.9816E-01	106.0	6.8913E-01	1.0616E+00	166.0	1.9600E+00	4.4710E+00
46.0	1.0443E+00	1.0012E+00	108.0	7.2836E-01	1.0596E+00	168.0	1.0461E+01	4.1786E+00
48.0	1.0585E+00	1.0053E+00	110.0	1.0488E+00	1.0684E+00	170.0	3.3490E+01	1.6302E+01
50.0	1.0318E+00	1.0036E+00	112.0	1.3343E+00	1.0871E+00	172.0	7.6216E+01	5.2322E+01
52.0	9.7751E-01	1.0031E+00	114.0	1.2580E+00	1.1055E+00	174.0	1.3730E+02	1.1497E+02
54.0	9.3130E-01	1.0053E+00	116.0	8.5179E-01	1.154E+00	176.0	2.0497E+02	1.9117E+02
56.0	9.2854E-01	1.0024E+00	118.0	5.3018E-01	1.1194E+00	178.0	2.5898E+02	2.5482E+02
58.0	9.7724E-01	1.0005E+00	120.0	6.7650E-01	1.1268E+00	180.0	2.7970E+02	2.7970E+02
60.0	1.0468E+00	1.0025E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=16.6

NORMALIZED CROSS SECTION E-PLANE		NORMALIZED CROSS SECTION H-PLANE		ANGLE	NORMALIZED CROSS SECTION E-PLANE		NORMALIZED CROSS SECTION H-PLANE		ANGLE	NORMALIZED CROSS SECTION E-PLANE		NORMALIZED CROSS SECTION H-PLANE		ANGLE
ANGLE														
0.0	1.0259E+00	1.0259E+00	1.0259E+00	62.0	1.0594E+00	1.0037E+00	1.0037E+00	1.0037E+00	122.0	9.927E-01	1.1403E+00	1.1403E+00	1.1403E+00	122.0
2.0	1.0205E+00	1.0239E+00	1.0239E+00	64.0	1.0892E+00	1.0092E+00	1.0092E+00	1.0092E+00	124.0	1.470E+00	1.1610E+00	1.1610E+00	1.1610E+00	124.0
4.0	1.0068E+00	1.0183E+00	1.0183E+00	66.0	1.0471E+00	1.0138E+00	1.0138E+00	1.0138E+00	126.0	1.430E+00	1.1877E+00	1.1877E+00	1.1877E+00	126.0
6.0	9.9146E-01	1.0108E+00	1.0108E+00	68.0	9.5870E-01	1.0141E+00	1.0141E+00	1.0141E+00	128.0	8.440E-01	1.2198E+00	1.2198E+00	1.2198E+00	128.0
8.0	9.8193E-01	1.0034E+00	1.0034E+00	70.0	8.9363E-01	1.0103E+00	1.0103E+00	1.0103E+00	130.0	3.395E-01	1.2533E+00	1.2533E+00	1.2533E+00	130.0
10.0	9.8277E-01	9.9800E-01	9.9800E-01	72.0	9.1172E-01	1.0060E+00	1.0060E+00	1.0060E+00	132.0	5.605E-01	1.2766E+00	1.2766E+00	1.2766E+00	132.0
12.0	9.9368E-01	9.9574E-01	9.9574E-01	74.0	1.0075E+00	1.0061E+00	1.0061E+00	1.0061E+00	134.0	1.361E+00	1.2861E+00	1.2861E+00	1.2861E+00	134.0
14.0	1.0095E+00	9.9670E-01	9.9670E-01	76.0	1.1037E+00	1.0117E+00	1.0117E+00	1.0117E+00	136.0	1.860E+00	1.3080E+00	1.3080E+00	1.3080E+00	136.0
16.0	1.0221E+00	9.9955E-01	9.9955E-01	78.0	1.1107E+00	1.0195E+00	1.0195E+00	1.0195E+00	138.0	1.430E+00	1.3832E+00	1.3832E+00	1.3832E+00	138.0
18.0	1.0242E+00	1.0035E+00	1.0035E+00	80.0	1.0084E+00	1.0235E+00	1.0235E+00	1.0235E+00	140.0	4.718E-01	1.5071E+00	1.5071E+00	1.5071E+00	140.0
20.0	1.0128E+00	1.0059E+00	1.0059E+00	82.0	8.7801E-01	1.0210E+00	1.0210E+00	1.0210E+00	142.0	1.217E-01	1.5993E+00	1.5993E+00	1.5993E+00	142.0
22.0	9.9184E-01	1.0050E+00	1.0050E+00	84.0	8.4070E-01	1.0155E+00	1.0155E+00	1.0155E+00	144.0	9.531E-01	1.5868E+00	1.5868E+00	1.5868E+00	144.0
24.0	9.7168E-01	1.0037E+00	1.0037E+00	86.0	9.4553E-01	1.0138E+00	1.0138E+00	1.0138E+00	146.0	2.202E+00	1.5432E+00	1.5432E+00	1.5432E+00	146.0
26.0	9.6424E-01	1.0002E+00	1.0002E+00	88.0	1.1078E+00	1.0201E+00	1.0201E+00	1.0201E+00	148.0	2.501E+00	1.6780E+00	1.6780E+00	1.6780E+00	148.0
28.0	9.7640E-01	9.9737E-01	9.9737E-01	90.0	1.1715E+00	1.0311E+00	1.0311E+00	1.0311E+00	150.0	1.4470E+00	2.0817E+00	2.0817E+00	2.0817E+00	150.0
30.0	1.0047E+00	9.9655E-01	9.9655E-01	92.0	1.0563E+00	1.0385E+00	1.0385E+00	1.0385E+00	152.0	1.867E-01	2.4876E+00	2.4876E+00	2.4876E+00	152.0
32.0	1.0355E+00	9.9859E-01	9.9859E-01	94.0	8.5434E-01	1.0375E+00	1.0375E+00	1.0375E+00	154.0	3.491E-01	2.4791E+00	2.4791E+00	2.4791E+00	154.0
34.0	1.0508E+00	1.0023E+00	1.0023E+00	96.0	7.6332E-01	1.0315E+00	1.0315E+00	1.0315E+00	156.0	2.270E+00	2.1264E+00	2.1264E+00	2.1264E+00	156.0
36.0	1.0394E+00	1.0059E+00	1.0059E+00	98.0	8.9483E-01	1.0304E+00	1.0304E+00	1.0304E+00	158.0	4.555E+00	2.2932E+00	2.2932E+00	2.2932E+00	158.0
38.0	1.0044E+00	1.0075E+00	1.0075E+00	100.0	1.1396E+00	1.0398E+00	1.0398E+00	1.0398E+00	160.0	5.331E+00	3.8270E+00	3.8270E+00	3.8270E+00	160.0
40.0	9.6408E-01	1.0062E+00	1.0062E+00	102.0	1.2479E+00	1.0550E+00	1.0550E+00	1.0550E+00	162.0	3.9207E+00	6.0958E+00	6.0958E+00	6.0958E+00	162.0
42.0	9.4290E-01	1.0029E+00	1.0029E+00	104.0	1.0799E+00	1.0655E+00	1.0655E+00	1.0655E+00	164.0	1.6136E+00	6.8154E+00	6.8154E+00	6.8154E+00	164.0
44.0	9.5623E-01	9.9970E-01	9.9970E-01	106.0	7.7912E-01	1.0658E+00	1.0658E+00	1.0658E+00	166.0	1.7006E+00	4.7494E+00	4.7494E+00	4.7494E+00	166.0
46.0	9.9866E-01	9.9803E-01	9.9803E-01	108.0	6.6092E-01	1.0620E+00	1.0620E+00	1.0620E+00	168.0	9.553E+00	3.9713E+00	3.9713E+00	3.9713E+00	168.0
48.0	1.0441E+00	1.0011E+00	1.0011E+00	110.0	8.8470E-01	1.0655E+00	1.0655E+00	1.0655E+00	170.0	3.2170E+01	1.5306E+01	1.5306E+01	1.5306E+01	170.0
50.0	1.0606E+00	1.0053E+00	1.0053E+00	112.0	1.2456E+00	1.0812E+00	1.0812E+00	1.0812E+00	172.0	7.5314E+01	5.1136E+01	5.1136E+01	5.1136E+01	172.0
52.0	1.0328E+00	1.0086E+00	1.0086E+00	114.0	1.3487E+00	1.1012E+00	1.1012E+00	1.1012E+00	174.0	1.3804E+02	1.1507E+02	1.1507E+02	1.1507E+02	174.0
54.0	9.7611E-01	1.0090E+00	1.0090E+00	116.0	1.0352E+00	1.1153E+00	1.1153E+00	1.1153E+00	176.0	2.0828E+02	1.9396E+02	1.9396E+02	1.9396E+02	176.0
56.0	9.3033E-01	1.0062E+00	1.0062E+00	118.0	6.0830E-01	1.1215E+00	1.1215E+00	1.1215E+00	178.0	2.647E+02	2.6039E+02	2.6039E+02	2.6039E+02	178.0
58.0	9.3291E-01	1.0024E+00	1.0024E+00	120.0	5.5341E-01	1.1274E+00	1.1274E+00	1.1274E+00	180.0	2.864E+02	2.8645E+02	2.8645E+02	2.8645E+02	180.0
60.0	9.8850E-01	1.0010E+00	1.0010E+00											

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=16.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0657E+00	1.0657E+00	62.0	9.9925E-01	1.0017E+00	122.0	7.9397E-01	1.1394E+00
2.0	1.0561E+00	1.0674E+00	64.0	1.0692E+00	1.0051E+00	124.0	1.3523E+00	1.1575E+00
4.0	1.0306E+00	1.0533E+00	66.0	1.0864E+00	1.0109E+00	126.0	1.5360E+00	1.1822E+00
6.0	9.9739E-01	1.0400E+00	68.0	1.0280E+00	1.0148E+00	128.0	1.0657E+00	1.2138E+00
8.0	9.6715E-01	1.0249E+00	70.0	9.3442E-01	1.0140E+00	130.0	4.3026E-01	1.2503E+00
10.0	9.4949E-01	1.0107E+00	72.0	8.8400E-01	1.0095E+00	132.0	4.0385E-01	1.2796E+00
12.0	9.4997E-01	9.9975E-01	74.0	9.2906E-01	1.0060E+00	134.0	1.1253E+00	1.2913E+00
14.0	9.6814E-01	9.9351E-01	76.0	1.0395E+00	1.0078E+00	136.0	1.8227E+00	1.3042E+00
16.0	9.9709E-01	9.9220E-01	78.0	1.1201E+00	1.0148E+00	138.0	1.6384E+00	1.3647E+00
18.0	1.0252E+00	9.9498E-01	80.0	1.0887E+00	1.0221E+00	140.0	6.9409E-01	1.4873E+00
20.0	1.0404E+00	9.9967E-01	82.0	9.5930E-01	1.0240E+00	142.0	9.2614E-02	1.6015E+00
22.0	1.0358E+00	1.0040E+00	84.0	8.4525E-01	1.0198E+00	144.0	6.9035E-01	1.6117E+00
24.0	1.0136E+00	1.0061E+00	86.0	8.6242E-01	1.0149E+00	146.0	1.9951E+00	1.5543E+00
26.0	9.8538E-01	1.0054E+00	88.0	1.0116E+00	1.0163E+00	148.0	2.5818E+00	1.6398E+00
28.0	9.6673E-01	1.0026E+00	90.0	1.1576E+00	1.0255E+00	150.0	1.7217E+00	2.0178E+00
30.0	9.6891E-01	9.9948E-01	92.0	1.1467E+00	1.0363E+00	152.0	3.4561E-01	2.4735E+00
32.0	9.9184E-01	9.9794E-01	94.0	9.6663E-01	1.0403E+00	154.0	1.9450E-01	2.5479E+00
34.0	1.0228E+00	9.9895E-01	96.0	7.8413E-01	1.0361E+00	156.0	1.9347E+00	2.1902E+00
36.0	1.0423E+00	1.0020E+00	98.0	7.9530E-01	1.0314E+00	158.0	4.3518E+00	2.2187E+00
38.0	1.0359E+00	1.0054E+00	100.0	1.0153E+00	1.0354E+00	160.0	5.4470E+00	3.6265E+00
40.0	1.0038E+00	1.0070E+00	102.0	1.2301E+00	1.0492E+00	162.0	4.2637E+00	5.9927E+00
42.0	9.6400E-01	1.0059E+00	104.0	1.1973E+00	1.0635E+00	164.0	1.8653E+00	7.0046E+00
44.0	9.4267E-01	1.0027E+00	106.0	9.1578E-01	1.0687E+00	166.0	1.4956E+00	5.0457E+00
46.0	9.5746E-01	9.9962E-01	108.0	6.6854E-01	1.0657E+00	168.0	8.6834E+00	3.8141E+00
48.0	1.0030E+00	9.9891E-01	110.0	7.4445E-01	1.0652E+00	170.0	3.0842E+01	1.4338E+01
50.0	1.0508E+00	1.0014E+00	112.0	1.1024E+00	1.0762E+00	172.0	7.4350E+01	4.9915E+01
52.0	1.0658E+00	1.0058E+00	114.0	1.3635E+00	1.0959E+00	174.0	1.3871E+02	1.1509E+02
54.0	1.0329E+00	1.0091E+00	116.0	1.2034E+00	1.1135E+00	176.0	2.1157E+02	1.9670E+02
56.0	9.7148E-01	1.0093E+00	118.0	7.4902E-01	1.1230E+00	178.0	2.7051E+02	2.6598E+02
58.0	9.2651E-01	1.0062E+00	120.0	5.0221E-01	1.1289E+00	180.0	2.9327E+02	2.9327E+02
60.0	9.3618E-01	1.0025E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=17.0

NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE
E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE	
0.0	1.0422E+00	0.0	9.3967E-01	1.0025E+00	122.0	6.2705E-01	1.1395E+00	122.0
2.0	1.0377E+00	2.0	1.0116E+00	1.0024E+00	124.0	1.1737E+00	1.1551E+00	124.0
4.0	1.0249E+00	4.0	1.0785E+00	1.0057E+00	126.0	1.5506E+00	1.1773E+00	126.0
6.0	1.0061E+00	6.0	1.0797E+00	1.0124E+00	128.0	1.2729E+00	1.2074E+00	128.0
8.0	9.8503E-01	8.0	1.0046E+00	1.0154E+00	130.0	5.8408E-01	1.2454E+00	130.0
10.0	9.6688E-01	10.0	9.1137E-01	1.0133E+00	132.0	3.1400E-01	1.2807E+00	132.0
12.0	9.5688E-01	12.0	8.8435E-01	1.0086E+00	134.0	8.8219E-01	1.2973E+00	134.0
14.0	9.6045E-01	14.0	9.5835E-01	1.0064E+00	136.0	1.7087E+00	1.3042E+00	136.0
16.0	9.7850E-01	16.0	1.0759E+00	1.0103E+00	138.0	1.7951E+00	1.3491E+00	138.0
18.0	1.0062E+00	18.0	1.1277E+00	1.0183E+00	140.0	9.4232E-01	1.4649E+00	140.0
20.0	1.0332E+00	20.0	1.0522E+00	1.0243E+00	142.0	1.3312E-01	1.5971E+00	142.0
22.0	1.0474E+00	22.0	9.0686E-01	1.0238E+00	144.0	4.5925E-01	1.6344E+00	144.0
24.0	1.0409E+00	24.0	8.2990E-01	1.0194E+00	146.0	1.7408E+00	1.5728E+00	146.0
26.0	1.0153E+00	26.0	9.1034E-01	1.0154E+00	148.0	2.6059E+00	1.6110E+00	148.0
28.0	9.8201E-01	28.0	1.0855E+00	1.0206E+00	150.0	1.9819E+00	1.9517E+00	150.0
30.0	9.5791E-01	30.0	1.1815E+00	1.0318E+00	152.0	5.4626E-01	2.4855E+00	152.0
32.0	9.5665E-01	32.0	1.0820E+00	1.0404E+00	154.0	9.0225E-02	2.6078E+00	154.0
34.0	9.8028E-01	34.0	8.6580E-01	1.0404E+00	156.0	1.6075E+00	2.2653E+00	156.0
36.0	1.0162E+00	36.0	7.5337E-01	1.0347E+00	158.0	4.1125E+00	2.1656E+00	158.0
38.0	1.0427E+00	38.0	8.8442E-01	1.0337E+00	160.0	5.5243E+00	3.4294E+00	160.0
40.0	1.0415E+00	40.0	1.1454E+00	1.0435E+00	162.0	4.5949E+00	5.8644E+00	162.0
42.0	1.0109E+00	42.0	1.2559E+00	1.0592E+00	164.0	2.1406E+00	7.1690E+00	164.0
44.0	9.6337E-01	44.0	1.0643E+00	1.0695E+00	166.0	1.3445E+00	5.3561E+00	166.0
46.0	9.4810E-01	46.0	7.4739E-01	1.0696E+00	168.0	7.8562E+00	3.7063E+00	168.0
48.0	9.6096E-01	48.0	6.5811E-01	1.0669E+00	170.0	2.9510E+01	1.3402E+01	170.0
50.0	1.0679E+00	50.0	9.3540E-01	1.0739E+00	172.0	7.3329E-01	4.8660E+01	172.0
52.0	1.0552E+00	52.0	1.3009E+00	1.0903E+00	174.0	1.3930E+02	1.1504E+02	174.0
54.0	1.0656E+00	54.0	1.3252E+00	1.1102E+00	176.0	2.1492E+02	1.9940E+02	176.0
56.0	1.0255E+00	56.0	9.2645E-01	1.1233E+00	178.0	2.7633E+02	2.7162E+02	178.0
58.0	9.6005E-01	58.0	5.2996E-01	1.1305E+00	180.0	3.0017E+02	3.0017E+02	180.0
60.0	9.1913E-01	60.0						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=17.2

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.8661E-01	9.8051E-01	62.0	9.1460E-01	1.0034E+00	122.0	5.1752E-01	1.1402E+00
2.0	9.8533E-01	9.8241E-01	64.0	9.4953E-01	1.0034E+00	124.0	9.7049E-01	1.1537E+00
4.0	9.9733E-01	9.8729E-01	66.0	1.0301E+00	1.0033E+00	126.0	1.5001E+00	1.1735E+00
6.0	1.0109E+00	9.9383E-01	68.0	1.0894E+00	1.0084E+00	128.0	1.4411E+00	1.2011E+00
8.0	1.0190E+00	1.0002E+00	70.0	1.0695E+00	1.0140E+00	130.0	7.8484E-01	1.2391E+00
10.0	1.0170E+00	1.0045E+00	72.0	9.7814E-01	1.0158E+00	132.0	2.9952E-01	1.2797E+00
12.0	1.0052E+00	1.0059E+00	74.0	8.9233E-01	1.0125E+00	134.0	6.5620E-01	1.3030E+00
14.0	9.8966E-01	1.0044E+00	76.0	8.9605E-01	1.0060E+00	136.0	1.5356E+00	1.3076E+00
16.0	9.7946E-01	1.0012E+00	78.0	9.9798E-01	1.0076E+00	138.0	1.8888E+00	1.3373E+00
18.0	9.8163E-01	9.9811E-01	80.0	1.1095E+00	1.0136E+00	140.0	1.1976E+00	1.4412E+00
20.0	9.9676E-01	9.9666E-01	82.0	1.1180E+00	1.0218E+00	142.0	2.3934E-01	1.5862E+00
22.0	1.0177E+00	9.9765E-01	84.0	9.9903E-01	1.0258E+00	144.0	2.7426E-01	1.6533E+00
24.0	1.0327E+00	1.0006E+00	86.0	8.5778E-01	1.0227E+00	146.0	1.4801E+00	1.5969E+00
26.0	1.0314E+00	1.0041E+00	88.0	8.3974E-01	1.0174E+00	148.0	2.5650E+00	1.5925E+00
28.0	1.0116E+00	1.0062E+00	90.0	9.8112E-01	1.0176E+00	150.0	2.2217E+00	1.8868E+00
30.0	9.8180E-01	1.0058E+00	92.0	1.5011E+00	1.0264E+00	152.0	7.8060E-01	2.4049E+00
32.0	9.5838E-01	1.0032E+00	94.0	1.1632E+00	1.0378E+00	154.0	3.8356E-02	2.6566E+00
34.0	9.5866E-01	9.9982E-01	96.0	9.8152E-01	1.0438E+00	156.0	1.2958E+00	2.3487E+00
36.0	9.8150E-01	9.9768E-01	98.0	7.7985E-01	1.0391E+00	158.0	3.8425E+00	2.1342E+00
38.0	1.0201E+00	9.9818E-01	100.0	7.8404E-01	1.0346E+00	160.0	5.5505E+00	3.2389E+00
40.0	1.0493E+00	1.0012E+00	102.0	1.0184E+00	1.0392E+00	162.0	4.9095E+00	5.7133E+00
42.0	1.0482E+00	1.0043E+00	104.0	1.2422E+00	1.0536E+00	164.0	2.4534E+00	7.3068E+00
44.0	1.0146E+00	1.0071E+00	106.0	1.1884E+00	1.0679E+00	166.0	1.2466E+00	5.6768E+00
46.0	9.6896E-01	1.0063E+00	108.0	8.7795E-01	1.0726E+00	168.0	7.0742E+00	3.6468E+00
48.0	9.4353E-01	1.0033E+00	110.0	6.4392E-01	1.0699E+00	170.0	2.8177E+01	1.2500E+01
50.0	9.5957E-01	1.0004E+00	112.0	7.8046E-01	1.0717E+00	172.0	7.2249E+01	4.7377E+01
52.0	1.0050E+00	1.0001E+00	114.0	1.1754E+00	1.0852E+00	174.0	1.3931E+02	1.1492E+02
54.0	1.0560E+00	1.0030E+00	116.0	1.3795E+00	1.1056E+00	176.0	2.1804E+02	2.0205E+02
56.0	1.0613E+00	1.0074E+00	118.0	1.1091E+00	1.1231E+00	178.0	2.8220E+02	2.7298E+02
58.0	1.0144E+00	1.0102E+00	120.0	6.3091E-01	1.1317E+00	180.0	3.0715E+02	3.0715E+02
60.0	9.4724E-01	1.0092E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=17.4

NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION	
E-PLANE		E-PLANE		E-PLANE		E-PLANE	
ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE
0.0	9.4189E-01	62.0	9.3687E-01	1.0088E+00	1.1412E+00	122.0	4.8126E-01
2.0	9.5098E-01	64.0	9.1587E-01	1.0049E+00	1.1533E+00	124.0	7.7225E-01
4.0	9.7546E-01	66.0	9.6687E-01	1.0025E+00	1.1708E+00	126.0	1.3746E+00
6.0	1.0075E+00	68.0	1.0526E+00	1.0048E+00	1.1954E+00	128.0	1.5495E+00
8.0	1.0363E+00	70.0	1.0967E+00	1.0106E+00	1.2319E+00	130.0	1.0056E+00
10.0	1.0514E+00	72.0	1.0508E+00	1.0156E+00	1.2763E+00	132.0	3.6081E-01
12.0	1.0473E+00	74.0	9.4654E-01	1.0158E+00	1.3076E+00	134.0	4.6901E-01
14.0	1.0258E+00	76.0	8.7853E-01	1.0115E+00	1.3136E+00	136.0	1.3195E+00
16.0	9.9645E-01	78.0	9.1971E-01	1.0079E+00	1.3300E+00	138.0	1.9121E+00
18.0	9.7213E-01	80.0	1.0427E+00	1.0099E+00	1.4181E+00	140.0	1.4402E+00
20.0	9.6378E-01	82.0	1.1307E+00	1.0175E+00	1.5695E+00	142.0	4.0283E-01
22.0	9.7499E-01	84.0	1.0843E+00	1.0250E+00	1.6667E+00	144.0	1.4514E-01
24.0	9.9595E-01	86.0	9.3388E-01	1.0282E+00	1.6249E+00	146.0	1.2002E+00
26.0	1.0240E+00	88.0	8.2455E-01	1.0212E+00	1.5846E+00	148.0	2.4670E+00
28.0	1.0336E+00	90.0	8.8174E-01	1.0174E+00	1.8254E+00	150.0	2.4218E+00
30.0	1.0216E+00	92.0	1.0651E+00	1.0218E+00	2.3531E+00	152.0	1.0394E+00
32.0	9.9391E-01	94.0	1.1857E+00	1.0331E+00	2.6926E+00	154.0	3.9306E-02
34.0	9.6782E-01	96.0	1.0955E+00	1.0426E+00	2.4375E+00	156.0	1.0092E+00
36.0	9.6193E-01	98.0	8.6591E-01	1.0431E+00	2.1244E+00	158.0	3.5470E+00
38.0	9.8331E-01	100.0	7.4227E-01	1.0377E+00	3.0585E+00	160.0	5.5431E+00
40.0	1.0207E+00	102.0	8.8474E-01	1.0372E+00	5.5419E+00	162.0	5.2027E+00
42.0	1.0492E+00	104.0	1.1620E+00	1.0479E+00	7.4161E+00	164.0	2.7815E+00
44.0	1.0463E+00	106.0	1.2591E+00	1.0640E+00	6.0041E+00	166.0	1.2003E+00
46.0	1.0096E+00	108.0	1.0294E+00	1.0737E+00	3.6345E+00	168.0	6.3387E+00
48.0	9.6182E-01	110.0	7.0387E-01	1.0734E+00	1.1635E+01	170.0	2.6846E+01
50.0	9.3769E-01	112.0	6.7002E-01	1.0723E+00	4.6070E+01	172.0	7.1112E+01
52.0	9.5870E-01	114.0	1.0133E+00	1.0814E+00	1.1473E+02	174.0	1.4024E+02
54.0	1.0132E+00	116.0	1.3575E+00	1.1004E+00	2.0467E+02	176.0	2.2122E+02
56.0	1.0602E+00	118.0	1.2850E+00	1.1196E+00	2.8812E+02	178.0	2.8812E+02
58.0	1.0590E+00	120.0	7.8707E-01	1.1321E+00	3.1421E+02	180.0	3.1421E+02
60.0	1.0042E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=17.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.6258E-01	9.6258E-01	62.0	9.9159E-01	1.0107E+00	124.0	5.2212E-01	1.1420E+00
2.0	9.6684E-01	9.6384E-01	64.0	9.2613E-01	1.0084E+00	126.0	6.0715E-01	1.1536E+00
4.0	9.7929E-01	9.6762E-01	66.0	9.2055E-01	1.0045E+00	128.0	1.1979E+00	1.1693E+00
6.0	9.9825E-01	9.7379E-01	68.0	9.8803E-01	1.0033E+00	130.0	1.5850E+00	1.1909E+00
8.0	1.0197E+00	9.8191E-01	70.0	1.0731E+00	1.0067E+00	132.0	1.2209E+00	1.2245E+00
10.0	1.0373E+00	9.9098E-01	72.0	1.0941E+00	1.0129E+00	134.0	4.8910E-01	1.2708E+00
12.0	1.0442E+00	9.9954E-01	74.0	1.0203E+00	1.0169E+00	136.0	3.3802E-01	1.3102E+00
14.0	1.0363E+00	1.0060E+00	76.0	9.1213E-01	1.0153E+00	138.0	1.0796E+00	1.3211E+00
16.0	1.0149E+00	1.0091E+00	78.0	8.7493E-01	1.0105E+00	140.0	1.8635E+00	1.3272E+00
18.0	9.8716E-01	1.0085E+00	80.0	9.5678E-01	1.0084E+00	142.0	1.6517E+00	1.3969E+00
20.0	9.6442E-01	1.0050E+00	82.0	1.0872E+00	1.0130E+00	144.0	6.1146E-01	1.5481E+00
22.0	9.5752E-01	1.0005E+00	84.0	1.1322E+00	1.0217E+00	146.0	7.8521E-02	1.6737E+00
24.0	9.7125E-01	9.9695E-01	86.0	1.0293E+00	1.0273E+00	148.0	9.2458E-01	1.6545E+00
26.0	1.0003E+00	9.9602E-01	88.0	8.6958E-01	1.0253E+00	150.0	2.3134E+00	1.5870E+00
28.0	1.0303E+00	9.9793E-01	90.0	8.2253E-01	1.0198E+00	152.0	2.5770E+00	1.7698E+00
30.0	1.0441E+00	1.0015E+00	92.0	9.5703E-01	1.0193E+00	154.0	1.3127E+00	2.2922E+00
32.0	1.0326E+00	1.0047E+00	94.0	1.1444E+00	1.0278E+00	156.0	9.1950E-02	2.7144E+00
34.0	1.0013E+00	1.0059E+00	96.0	1.1735E+00	1.0397E+00	158.0	7.5132E-01	2.5285E+00
36.0	9.6919E-01	1.0043E+00	98.0	9.8526E-01	1.0452E+00	160.0	3.2314E+00	2.1354E+00
38.0	9.5799E-01	1.0014E+00	100.0	7.6981E-01	1.0418E+00	162.0	5.4800E+00	2.8908E+00
40.0	9.7707E-01	9.9913E-01	102.0	7.8086E-01	1.0378E+00	164.0	5.4708E+00	5.3529E+00
42.0	1.0151E+00	9.9931E-01	104.0	1.0376E+00	1.0435E+00	166.0	3.1267E+00	7.4962E+00
44.0	1.0451E+00	1.0020E+00	106.0	1.2602E+00	1.0588E+00	168.0	1.2040E+00	6.3341E+00
46.0	1.0424E+00	1.0055E+00	108.0	1.1658E+00	1.0727E+00	170.0	5.6513E+00	3.6677E+00
48.0	1.0046E+00	1.0074E+00	110.0	8.2298E-01	1.0765E+00	172.0	2.5519E+01	1.0809E+01
50.0	9.5682E-01	1.0052E+00	112.0	6.2600E-01	1.0745E+00	174.0	6.9921E+01	4.4740E+01
52.0	9.3663E-01	1.0029E+00	114.0	8.4702E-01	1.0792E+00	176.0	1.4059E+02	1.1446E+02
54.0	9.6473E-01	1.0003E+00	116.0	1.2646E+00	1.0955E+00	178.0	2.2438E+02	2.0725E+02
56.0	1.0242E+00	1.0009E+00	118.0	1.3667E+00	1.1159E+00	180.0	2.9408E+02	2.8875E+02
58.0	1.0682E+00	1.0047E+00	120.0	9.7120E-01	1.1314E+00		3.2135E+02	3.2135E+02
60.0	1.0563E+00	1.0091E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

$KA=17.8$

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=18.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0579E+00	1.0579E+00	62.0	1.0726E+00	1.0075E+00	122.0	7.9277E-01	1.1419E+00
2.0	1.0482E+00	1.0516E+00	64.0	1.0302E+00	1.0111E+00	124.0	4.6010E-01	1.1546E+00
4.0	1.0229E+00	1.0454E+00	66.0	9.5027E-01	1.0108E+00	126.0	7.9215E-01	1.1689E+00
6.0	9.9138E-01	1.0323E+00	68.0	9.0580E-01	1.0070E+00	128.0	1.4334E+00	1.1857E+00
8.0	9.6522E-01	1.0181E+00	70.0	9.4585E-01	1.0040E+00	130.0	1.5387E+00	1.2113E+00
10.0	9.5389E-01	1.0050E+00	72.0	1.0411E+00	1.0056E+00	132.0	8.8319E-01	1.2552E+00
12.0	9.6129E-01	9.9634E-01	74.0	1.1002E+00	1.0115E+00	134.0	2.8532E-01	1.3077E+00
14.0	9.8397E-01	9.9330E-01	76.0	1.0553E+00	1.0170E+00	136.0	6.1711E-01	1.3361E+00
16.0	1.0118E+00	9.9424E-01	78.0	9.3916E-01	1.0173E+00	138.0	1.5755E+00	1.3340E+00
18.0	1.0318E+00	9.9003E-01	80.0	8.6724E-01	1.0128E+00	140.0	1.9235E+00	1.3653E+00
20.0	1.0341E+00	1.0003E+00	82.0	9.2485E-01	1.0096E+00	142.0	1.1032E+00	1.4966E+00
22.0	1.0177E+00	1.0030E+00	84.0	1.0658E+00	1.0130E+00	144.0	1.4070E-01	1.6662E+00
24.0	9.9213E-01	1.0049E+00	86.0	1.1417E+00	1.0217E+00	146.0	4.4278E-01	1.7102E+00
26.0	9.7294E-01	1.0020E+00	88.0	1.0548E+00	1.0285E+00	148.0	1.8763E+00	1.6190E+00
28.0	9.7265E-01	9.9924E-01	90.0	8.8133E-01	1.0275E+00	150.0	2.7308E+00	1.6835E+00
30.0	9.9243E-01	9.9824E-01	92.0	8.1219E-01	1.0221E+00	152.0	1.8626E+00	2.1520E+00
32.0	1.0200E+00	9.9913E-01	94.0	9.4435E-01	1.0213E+00	154.0	3.4032E-01	2.7131E+00
34.0	1.0360E+00	1.0019E+00	96.0	1.1466E+00	1.0300E+00	156.0	3.4630E-01	2.7049E+00
36.0	1.0271E+00	1.0047E+00	98.0	1.1803E+00	1.0423E+00	158.0	2.5675E+00	2.2146E+00
38.0	3.9593E-01	1.0057E+00	100.0	9.7690E-01	1.0479E+00	160.0	5.2406E+00	2.6038E+00
40.0	9.6270E-01	1.0042E+00	102.0	7.5348E-01	1.0443E+00	162.0	5.9116E+00	4.9339E+00
42.0	9.5256E-01	1.0012E+00	104.0	7.8801E-01	1.0412E+00	164.0	3.8439E+00	7.5647E+00
44.0	9.7653E-01	9.9901E-01	106.0	1.0737E+00	1.0488E+00	166.0	1.3526E+00	6.9872E+00
46.0	1.0217E+00	9.9947E-01	108.0	1.2781E+00	1.0650E+00	168.0	4.4203E+00	3.8628E+00
48.0	1.0538E+00	1.0026E+00	110.0	1.1206E+00	1.0779E+00	170.0	2.2901E-01	9.2829E+00
50.0	1.0456E+00	1.0062E+00	112.0	7.5128E-01	1.0806E+00	172.0	6.7394E-01	4.2022E+01
52.0	9.9883E-01	1.0077E+00	114.0	6.2608E-01	1.0801E+00	174.0	1.4107E+02	1.1371E+02
54.0	9.4890E-01	1.0060E+00	116.0	9.4876E-01	1.0884E+00	176.0	2.3057E+02	2.1224E+02
56.0	9.3903E-01	1.0027E+00	118.0	1.3521E+00	1.1069E+00	178.0	3.0611E+02	3.0034E+02
58.0	9.8283E-01	1.0009E+00	120.0	1.2998E+00	1.1268E+00	180.0	3.3587E+02	3.3587E+02
60.0	1.0466E+00	1.0029E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA=18.2

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=18.4

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE
0.0	9.8514E-01	9.8514E-01	62.0	1.0114E+00	1.0017E+00	122.0	1.1614E+00	1.1382E+00
2.0	9.8947E-01	9.8680E-01	64.0	1.0701E+00	1.0054E+00	124.0	6.0353E-01	1.1542E+00
4.0	1.0001E+00	9.9123E-01	66.0	1.0626E+00	1.0103E+00	126.0	4.9627E-01	1.1697E+00
6.0	1.0111E+00	9.9691E-01	68.0	9.8718E-01	1.0121E+00	128.0	1.0673E+00	1.1851E+00
8.0	1.0156E+00	1.0019E+00	70.0	9.1297E-01	1.0094E+00	130.0	1.6000E+00	1.2032E+00
10.0	1.0104E+00	1.0048E+00	72.0	9.1877E-01	1.0055E+00	132.0	1.3127E+00	1.2379E+00
12.0	9.9770E-01	1.0047E+00	74.0	1.0094E+00	1.0054E+00	134.0	5.0987E-01	1.2949E+00
14.0	9.8541E-01	1.0024E+00	76.0	1.0970E+00	1.0166E+00	136.0	3.0912E-01	1.3443E+00
16.0	9.8216E-01	9.9932E-01	78.0	1.0830E+00	1.0171E+00	138.0	1.9341E+00	1.3515E+00
18.0	9.8180E-01	9.9730E-01	80.0	9.6747E-01	1.0190E+00	140.0	1.9381E+00	1.3527E+00
20.0	1.0100E+00	9.9748E-01	82.0	8.6727E-01	1.0152E+00	142.0	1.5807E+00	1.4443E+00
22.0	1.0100E+00	9.9748E-01	84.0	9.0013E-01	1.0112E+00	144.0	4.3782E-01	1.6316E+00
24.0	1.0260E+00	9.9977E-01	86.0	1.0457E+00	1.0136E+00	146.0	1.3217E-01	1.7487E+00
26.0	1.0284E+00	1.0025E+00	88.0	1.1454E+00	1.0224E+00	148.0	1.3386E+00	1.6773E+00
28.0	9.8632E-01	1.0051E+00	90.0	1.0703E+00	1.0299E+00	150.0	2.6603E+00	1.6386E+00
30.0	9.6467E-01	1.0029E+00	92.0	8.8513E-01	1.0242E+00	152.0	2.3477E+00	2.0045E+00
32.0	9.6352E-01	9.9971E-01	94.0	8.0216E-01	1.0236E+00	154.0	7.4606E-01	2.6527E+00
34.0	9.8689E-01	9.9789E-01	96.0	9.3956E-01	1.0328E+00	156.0	1.1540E+00	2.8551E+00
36.0	1.0217E+00	9.9854E-01	98.0	1.1542E+00	1.0454E+00	158.0	1.9040E+00	2.3573E+00
38.0	1.0444E+00	1.0014E+00	100.0	1.1799E+00	1.0505E+00	160.0	4.8533E+00	2.3943E+00
40.0	1.0367E+00	1.0046E+00	102.0	9.5287E-01	1.0462E+00	162.0	6.2202E+00	4.4822E+00
42.0	1.0014E+00	1.0054E+00	104.0	7.3142E-01	1.0462E+00	164.0	4.5870E+00	7.5106E+00
44.0	9.6343E-01	1.0045E+00	106.0	8.0891E-01	1.0451E+00	166.0	1.6711E+00	7.6079E+00
46.0	9.5320E-01	1.0016E+00	108.0	1.1254E+00	1.0549E+00	168.0	3.4105E+00	4.2147E+00
48.0	9.8198E-01	9.9975E-01	110.0	1.2871E+00	1.0718E+00	170.0	2.0349E+01	7.9378E+00
50.0	1.0290E+00	1.0043E+00	112.0	1.0473E+00	1.0832E+00	172.0	6.4685E+01	3.9253E+01
52.0	1.0544E+00	1.0074E+00	114.0	6.7303E-01	1.0849E+00	174.0	1.4121E+02	1.1268E+02
54.0	1.0317E+00	1.0078E+00	116.0	6.6266E-01	1.0869E+00	176.0	2.3650E+02	2.1704E+02
56.0	9.7496E-01	1.0078E+00	118.0	1.0861E+00	1.0991E+00	178.0	3.1830E+02	3.1207E+02
58.0	9.3230E-01	1.0051E+00	120.0	1.0861E+00	1.0991E+00	180.0	3.5072E+02	3.5072E+02
60.0	9.4634E-01	1.0020E+00		1.4121E+00	1.1191E+00			

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=18.6

NORMALIZED CROSS SECTION E-PLANE		NORMALIZED CROSS SECTION H-PLANE		ANGLE	NORMALIZED CROSS SECTION E-PLANE		NORMALIZED CROSS SECTION H-PLANE		ANGLE	NORMALIZED CROSS SECTION E-PLANE		NORMALIZED CROSS SECTION H-PLANE		ANGLE	NORMALIZED CROSS SECTION E-PLANE		NORMALIZED CROSS SECTION H-PLANE		ANGLE
ANGLE																			
0.0	9.4858E-01	9.4858E-01	9.4858E-01	62.0	9.5977E-01	1.0019E+00	1.0019E+00	1.0019E+00	122.0	1.3111E+00	1.3111E+00	1.3111E+00	1.3111E+00	122.0	1.3111E+00	1.3111E+00	1.3111E+00	1.3111E+00	122.0
2.0	9.5779E-01	9.5172E-01	9.5172E-01	64.0	1.0324E+00	1.0027E+00	1.0027E+00	1.0027E+00	124.0	7.6134E-01	1.1529E+00	1.1529E+00	1.1529E+00	124.0	7.6134E-01	1.1529E+00	1.1529E+00	1.1529E+00	124.0
4.0	9.8211E-01	9.6019E-01	9.6019E-01	66.0	1.0731E+00	1.0073E+00	1.0073E+00	1.0073E+00	126.0	4.4013E-01	1.1698E+00	1.1698E+00	1.1698E+00	126.0	4.4013E-01	1.1698E+00	1.1698E+00	1.1698E+00	126.0
6.0	1.0125E+00	9.7296E-01	9.7296E-01	68.0	1.0469E+00	1.0117E+00	1.0117E+00	1.0117E+00	128.0	8.6215E-01	1.1858E+00	1.1858E+00	1.1858E+00	128.0	8.6215E-01	1.1858E+00	1.1858E+00	1.1858E+00	128.0
8.0	1.0371E+00	9.8643E-01	9.8643E-01	70.0	9.5845E-01	1.0121E+00	1.0121E+00	1.0121E+00	130.0	1.5233E+00	1.2015E+00	1.2015E+00	1.2015E+00	130.0	1.5233E+00	1.2015E+00	1.2015E+00	1.2015E+00	130.0
10.0	1.0558E+00	9.9804E-01	9.9804E-01	72.0	9.0089E-01	1.0055E+00	1.0055E+00	1.0055E+00	132.0	1.4813E+00	1.2305E+00	1.2305E+00	1.2305E+00	132.0	1.4813E+00	1.2305E+00	1.2305E+00	1.2305E+00	132.0
12.0	1.0731E+00	1.0056E+00	1.0056E+00	74.0	9.4115E-01	1.0073E+00	1.0073E+00	1.0073E+00	134.0	6.9911E-01	1.2856E+00	1.2856E+00	1.2856E+00	134.0	6.9911E-01	1.2856E+00	1.2856E+00	1.2856E+00	134.0
14.0	1.0106E+00	1.0092E+00	1.0092E+00	76.0	1.0474E+00	1.0138E+00	1.0138E+00	1.0138E+00	136.0	2.4814E-01	1.3441E+00	1.3441E+00	1.3441E+00	136.0	2.4814E-01	1.3441E+00	1.3441E+00	1.3441E+00	136.0
16.0	9.8428E-01	1.0065E+00	1.0065E+00	78.0	1.1077E+00	1.0192E+00	1.0192E+00	1.0192E+00	138.0	8.8203E-01	1.3614E+00	1.3614E+00	1.3614E+00	138.0	8.8203E-01	1.3614E+00	1.3614E+00	1.3614E+00	138.0
18.0	9.6942E-01	1.0025E+00	1.0025E+00	80.0	1.0449E+00	1.0185E+00	1.0185E+00	1.0185E+00	140.0	1.8451E+00	1.3539E+00	1.3539E+00	1.3539E+00	140.0	1.8451E+00	1.3539E+00	1.3539E+00	1.3539E+00	140.0
20.0	9.7328E-01	9.9637E-01	9.9637E-01	82.0	9.1335E-01	1.0155E+00	1.0155E+00	1.0155E+00	142.0	1.7727E+00	1.4218E+00	1.4218E+00	1.4218E+00	142.0	1.7727E+00	1.4218E+00	1.4218E+00	1.4218E+00	142.0
22.0	9.9305E-01	9.9731E-01	9.9731E-01	84.0	8.5800E-01	1.0137E+00	1.0137E+00	1.0137E+00	144.0	6.5157E-01	1.6064E+00	1.6064E+00	1.6064E+00	144.0	6.5157E-01	1.6064E+00	1.6064E+00	1.6064E+00	144.0
24.0	1.0166E+00	9.9813E-01	9.9813E-01	86.0	9.5557E-01	1.0119E+00	1.0119E+00	1.0119E+00	146.0	6.1717E-02	1.7580E+00	1.7580E+00	1.7580E+00	146.0	6.1717E-02	1.7580E+00	1.7580E+00	1.7580E+00	146.0
26.0	1.0287E+00	1.0012E+00	1.0012E+00	88.0	1.1088E+00	1.0179E+00	1.0179E+00	1.0179E+00	148.0	1.0625E+00	1.7115E+00	1.7115E+00	1.7115E+00	148.0	1.0625E+00	1.7115E+00	1.7115E+00	1.7115E+00	148.0
28.0	1.0204E+00	1.0037E+00	1.0037E+00	90.0	1.1355E+00	1.0275E+00	1.0275E+00	1.0275E+00	150.0	2.5412E+00	1.6331E+00	1.6331E+00	1.6331E+00	150.0	2.5412E+00	1.6331E+00	1.6331E+00	1.6331E+00	150.0
30.0	9.9630E-01	1.0044E+00	1.0044E+00	92.0	9.8228E-01	1.0317E+00	1.0317E+00	1.0317E+00	152.0	2.5412E+00	1.9344E+00	1.9344E+00	1.9344E+00	152.0	2.5412E+00	1.9344E+00	1.9344E+00	1.9344E+00	152.0
32.0	9.7286E-01	1.0028E+00	1.0028E+00	94.0	8.1479E-01	1.0279E+00	1.0279E+00	1.0279E+00	154.0	9.9019E-01	2.6027E+00	2.6027E+00	2.6027E+00	154.0	9.9019E-01	2.6027E+00	2.6027E+00	2.6027E+00	154.0
34.0	9.6848E-01	1.0002E+00	1.0002E+00	96.0	8.4430E-01	1.0288E+00	1.0288E+00	1.0288E+00	156.0	7.1534E-02	2.9143E+00	2.9143E+00	2.9143E+00	156.0	7.1534E-02	2.9143E+00	2.9143E+00	2.9143E+00	156.0
36.0	9.8945E-01	9.9857E-01	9.9857E-01	98.0	1.0610E+00	1.0286E+00	1.0286E+00	1.0286E+00	158.0	1.5810E+00	2.4465E+00	2.4465E+00	2.4465E+00	158.0	1.5810E+00	2.4465E+00	2.4465E+00	2.4465E+00	158.0
38.0	1.0229E+00	9.9928E-01	9.9928E-01	100.0	1.2075E+00	1.0412E+00	1.0412E+00	1.0412E+00	160.0	4.6070E+00	2.3220E+00	2.3220E+00	2.3220E+00	160.0	4.6070E+00	2.3220E+00	2.3220E+00	2.3220E+00	160.0
40.0	1.0436E+00	1.0021E+00	1.0021E+00	102.0	1.0772E+00	1.0509E+00	1.0509E+00	1.0509E+00	162.0	6.3256E+00	4.2524E+00	4.2524E+00	4.2524E+00	162.0	6.3256E+00	4.2524E+00	4.2524E+00	4.2524E+00	162.0
42.0	1.0327E+00	1.0051E+00	1.0051E+00	104.0	8.0070E-01	1.0504E+00	1.0504E+00	1.0504E+00	164.0	4.9432E+00	7.4388E+00	7.4388E+00	7.4388E+00	164.0	4.9432E+00	7.4388E+00	7.4388E+00	7.4388E+00	164.0
44.0	9.9426E-01	1.0051E+00	1.0051E+00	106.0	7.8828E-01	1.0464E+00	1.0464E+00	1.0464E+00	166.0	1.8917E+00	7.8800E+00	7.8800E+00	7.8800E+00	166.0	1.8917E+00	7.8800E+00	7.8800E+00	7.8800E+00	166.0
46.0	9.5609E-01	1.0044E+00	1.0044E+00	108.0	9.8854E-01	1.0514E+00	1.0514E+00	1.0514E+00	168.0	2.9952E+00	4.4433E+00	4.4433E+00	4.4433E+00	168.0	2.9952E+00	4.4433E+00	4.4433E+00	4.4433E+00	168.0
48.0	9.5017E-01	1.0014E+00	1.0014E+00	110.0	1.2716E+00	1.0671E+00	1.0671E+00	1.0671E+00	170.0	1.9105E+01	7.3367E+00	7.3367E+00	7.3367E+00	170.0	1.9105E+01	7.3367E+00	7.3367E+00	7.3367E+00	170.0
50.0	9.8530E-01	9.9976E-01	9.9976E-01	112.0	1.1847E+00	1.0820E+00	1.0820E+00	1.0820E+00	172.0	6.3268E+01	3.7858E+01	3.7858E+01	3.7858E+01	172.0	6.3268E+01	3.7858E+01	3.7858E+01	3.7858E+01	172.0
52.0	1.0351E+00	1.0012E+00	1.0012E+00	114.0	7.9091E-01	1.0822E+00	1.0822E+00	1.0822E+00	174.0	1.4111E+02	1.1207E+02	1.1207E+02	1.1207E+02	174.0	1.4111E+02	1.1207E+02	1.1207E+02	1.1207E+02	174.0
54.0	1.0560E+00	1.0048E+00	1.0048E+00	116.0	5.9913E-01	1.0822E+00	1.0822E+00	1.0822E+00	176.0	2.3955E+02	2.1937E+02	2.1937E+02	2.1937E+02	176.0	2.3955E+02	2.1937E+02	2.1937E+02	2.1937E+02	176.0
56.0	1.0247E+00	1.0076E+00	1.0076E+00	118.0	9.1362E-01	1.0967E+00	1.0967E+00	1.0967E+00	178.0	3.2445E+02	3.1799E+02	3.1799E+02	3.1799E+02	178.0	3.2445E+02	3.1799E+02	3.1799E+02	3.1799E+02	178.0
58.0	9.6428E-01	1.0076E+00	1.0076E+00	120.0	1.3598E+00	1.1150E+00	1.1150E+00	1.1150E+00	180.0	3.5826E+02	3.5826E+02	3.5826E+02	3.5826E+02	180.0	3.5826E+02	3.5826E+02	3.5826E+02	3.5826E+02	180.0
60.0	9.3003E-01	1.0045E+00	1.0045E+00																

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BI-STATIC SCATTERING FROM CONDUCTING SPHERE

KA=18.8

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE		
H-PLANE			H-PLANE			H-PLANE		
ANGLE	ANGLE	CROSS SECTION	ANGLE	ANGLE	CROSS SECTION	ANGLE	ANGLE	CROSS SECTION
0.0	62.0	9.6453E-01	62.0	9.2970E-01	1.0040E+00	122.0	1.4055E+00	1.1319E+00
2.0	64.0	9.6934E-01	64.0	9.7644E-01	1.0021E+00	124.0	9.4613E-01	1.1509E+00
4.0	66.0	9.8307E-01	66.0	1.0519E+00	1.0042E+00	126.0	4.5832E-01	1.1693E+00
6.0	68.0	1.0030E+00	68.0	1.0788E+00	1.0093E+00	128.0	6.7323E-01	1.1866E+00
8.0	70.0	1.0236E+00	70.0	1.0202E+00	1.0128E+00	130.0	1.3831E+00	1.2013E+00
10.0	72.0	1.0376E+00	72.0	9.2784E-01	1.0116E+00	132.0	1.5918E+00	1.2245E+00
12.0	74.0	1.0385E+00	74.0	8.9945E-01	1.0074E+00	134.0	9.1511E-01	1.2754E+00
14.0	76.0	1.0243E+00	76.0	9.7585E-01	1.0058E+00	136.0	2.5802E-01	1.3408E+00
16.0	78.0	9.9852E-01	78.0	1.0831E+00	1.0100E+00	138.0	6.5540E-01	1.3706E+00
18.0	80.0	9.7507E-01	80.0	1.0991E+00	1.0170E+00	140.0	1.6946E+00	1.3595E+00
20.0	82.0	9.6261E-01	82.0	9.9051E-01	1.0203E+00	142.0	1.9158E+00	1.4035E+00
22.0	84.0	9.6978E-01	84.0	8.6946E-01	1.0172E+00	144.0	8.9141E-01	1.5777E+00
24.0	86.0	9.9418E-01	86.0	8.8165E-01	1.0127E+00	146.0	5.2118E-02	1.7597E+00
26.0	88.0	1.0228E+00	88.0	1.0309E+00	1.0145E+00	148.0	7.9812E-01	1.7461E+00
28.0	90.0	1.0381E+00	90.0	1.1489E+00	1.0234E+00	150.0	2.3793E+00	1.6384E+00
30.0	92.0	1.0295E+00	92.0	1.0794E+00	1.0315E+00	152.0	2.7034E+00	1.8699E+00
32.0	94.0	1.0014E+00	94.0	8.8264E-01	1.0315E+00	154.0	1.2535E+00	2.5415E+00
34.0	96.0	9.7271E-01	96.0	7.9508E-01	1.0262E+00	156.0	7.5220E-02	2.9603E+00
36.0	98.0	9.6452E-01	98.0	9.4763E-01	1.0262E+00	158.0	1.2903E+00	2.5440E+00
38.0	100.0	9.8456E-01	100.0	1.1714E+00	1.0364E+00	160.0	4.3332E+00	2.2721E+00
40.0	102.0	1.0190E+00	102.0	1.1731E+00	1.0490E+00	162.0	6.3831E+00	4.0244E+00
42.0	104.0	1.0403E+00	104.0	9.1454E-01	1.0531E+00	164.0	5.3010E+00	7.3384E+00
44.0	106.0	1.0283E+00	106.0	7.1057E-01	1.0493E+00	166.0	2.1456E+00	8.1705E+00
46.0	108.0	9.8874E-01	108.0	8.5184E-01	1.0498E+00	168.0	2.6255E+00	4.7031E+00
48.0	110.0	9.5267E-01	110.0	1.1910E+00	1.0632E+00	170.0	1.7888E+01	6.7848E+00
50.0	112.0	9.5329E-01	112.0	1.2753E+00	1.0792E+00	172.0	6.1815E+01	3.6458E+01
52.0	114.0	9.9544E-01	114.0	9.4242E-01	1.0885E+00	174.0	1.4110E+02	1.1138E+02
54.0	116.0	1.0458E+00	116.0	6.0635E-01	1.0901E+00	176.0	2.4246E+02	2.2164E+02
56.0	118.0	1.0577E+00	118.0	7.5433E-01	1.0956E+00	178.0	3.3064E+02	3.2394E+02
58.0	120.0	1.0146E+00	120.0	1.2442E+00	1.1114E+00	180.0	3.6589E+02	3.6589E+02
60.0		9.5171E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=19.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0156E+00	1.0156E+00	62.0	9.3673E-01	1.0069E+00	122.0	1.4309E+00	1.1283E+00
2.0	1.0111E+00	1.0139E+00	64.0	9.3273E-01	1.0035E+00	124.0	1.1332E+00	1.1483E+00
4.0	1.0004E+00	1.0003E+00	66.0	9.9099E-01	1.0025E+00	126.0	5.4529E-01	1.1680E+00
6.0	9.9082E-01	1.0037E+00	68.0	1.0686E+00	1.0060E+00	128.0	5.2523E-01	1.1872E+00
8.0	9.8822E-01	9.9905E-01	70.0	1.0688E+00	1.0112E+00	130.0	1.1942E+00	1.2021E+00
10.0	9.9509E-01	9.9649E-01	72.0	9.8655E-01	1.0133E+00	132.0	1.6415E+00	1.2204E+00
12.0	1.0072E+00	9.9758E-01	74.0	9.0345E-01	1.0105E+00	134.0	1.1374E+00	1.2651E+00
14.0	1.0168E+00	1.0002E+00	76.0	9.1539E-01	1.0066E+00	136.0	3.3553E-01	1.3344E+00
16.0	1.0165E+00	1.0041E+00	78.0	1.0217E+00	1.0072E+00	138.0	4.6269E-01	1.3778E+00
18.0	1.0044E+00	1.0041E+00	80.0	1.1086E+00	1.0134E+00	140.0	1.4977E+00	1.3685E+00
20.0	9.8654E-01	1.0008E+00	82.0	1.0671E+00	1.0198E+00	142.0	2.0009E+00	1.3902E+00
22.0	9.7447E-01	1.0013E+00	84.0	9.2856E-01	1.0202E+00	144.0	1.1424E+00	1.5472E+00
24.0	9.7830E-01	9.9859E-01	86.0	8.5091E-01	1.0155E+00	146.0	1.0326E-01	1.7534E+00
26.0	9.9869E-01	9.9743E-01	88.0	9.4060E-01	1.0133E+00	148.0	5.5966E-01	1.7791E+00
28.0	1.0241E+00	9.9863E-01	90.0	1.1067E+00	1.0191E+00	150.0	2.1735E+00	1.6537E+00
30.0	1.0372E+00	1.0015E+00	92.0	1.1437E+00	1.0290E+00	152.0	2.8142E+00	1.8130E+00
32.0	1.0264E+00	1.0043E+00	94.0	9.8210E-01	1.0335E+00	154.0	1.5252E+00	2.4711E+00
34.0	9.9607E-01	1.0052E+00	96.0	8.0536E-01	1.0298E+00	156.0	1.2580E-01	2.9918E+00
36.0	9.6617E-01	1.0036E+00	98.0	8.4747E-01	1.0261E+00	158.0	1.0103E+00	2.6468E+00
38.0	9.5921E-01	1.0008E+00	100.0	1.0828E+00	1.0321E+00	160.0	4.0366E+00	2.2448E+00
40.0	9.8295E-01	9.9841E-01	102.0	1.2150E+00	1.0454E+00	162.0	6.4012E+00	3.8013E+00
42.0	1.0212E+00	9.9961E-01	104.0	1.0424E+00	1.0547E+00	164.0	5.6402E+00	7.2109E+00
44.0	1.0434E+00	1.0024E+00	106.0	7.5849E-01	1.0527E+00	166.0	2.4294E+00	8.4227E+00
46.0	1.0287E+00	1.0052E+00	108.0	7.4685E-01	1.0501E+00	168.0	2.3105E+00	4.9913E+00
48.0	9.8613E-01	1.0058E+00	110.0	1.0643E+00	1.0582E+00	170.0	1.6702E+01	6.2830E+00
50.0	9.5168E-01	1.0037E+00	112.0	1.3009E+00	1.0752E+00	172.0	6.0329E+01	3.5057E+01
52.0	9.5908E-01	1.0009E+00	114.0	1.0970E+00	1.0884E+00	174.0	1.4091E+02	1.1063E+02
54.0	1.0070E+00	1.0004E+00	116.0	6.8163E-01	1.0922E+00	176.0	2.4532E+02	2.2385E+02
56.0	1.0540E+00	1.0030E+00	118.0	6.3603E-01	1.0957E+00	178.0	3.3685E+02	3.2931E+02
58.0	1.0529E+00	1.0070E+00	120.0	1.0853E+00	1.1085E+00	180.0	3.7358E+02	3.7358E+02
60.0	9.9754E-01	1.0088E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=19.2

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0511E+00	1.0511E+00	62.0	9.7692E-01	1.0088E+00	122.0	1.3850E+00	1.1248E+00
2.0	1.0414E+00	1.0478E+00	64.0	9.2514E-01	1.0061E+00	124.0	1.2933E+00	1.1453E+00
4.0	1.0165E+00	1.0307E+00	66.0	9.4456E-01	1.0030E+00	126.0	6.8897E-01	1.1660E+00
6.0	9.8700E-01	1.0250E+00	68.0	1.0236E+00	1.0035E+00	128.0	4.3647E-01	1.1872E+00
8.0	9.6514E-01	1.0127E+00	70.0	1.0815E+00	1.0081E+00	130.0	9.9297E-01	1.2036E+00
10.0	9.5983E-01	1.0019E+00	72.0	1.0487E+00	1.0128E+00	132.0	1.6176E+00	1.2183E+00
12.0	9.7277E-01	9.9553E-01	74.0	9.5006E-01	1.0131E+00	134.0	1.3422E+00	1.2554E+00
14.0	9.9732E-01	9.9409E-01	76.0	8.9233E-01	1.0092E+00	136.0	4.7318E-01	1.3254E+00
16.0	1.0209E+00	9.9650E-01	78.0	9.5049E-01	1.0066E+00	138.0	3.1926E-01	1.3822E+00
18.0	1.0309E+00	1.0005E+00	80.0	1.0701E+00	1.0098E+00	140.0	1.2700E+00	1.3798E+00
20.0	1.0220E+00	1.0037E+00	82.0	1.1117E+00	1.0172E+00	142.0	2.0228E+00	1.3824E+00
22.0	1.0006E+00	1.0044E+00	84.0	1.0105E+00	1.0215E+00	144.0	1.3891E+00	1.5166E+00
24.0	9.7962E-01	1.0028E+00	86.0	8.7305E-01	1.0190E+00	146.0	2.1144E-01	1.7395E+00
26.0	9.7514E-01	1.0022E+00	88.0	8.7001E-01	1.0143E+00	148.0	3.5866E-01	1.8085E+00
28.0	9.9048E-01	9.9856E-01	90.0	1.0242E+00	1.0159E+00	150.0	1.9355E+00	1.6777E+00
30.0	1.0152E+00	9.9909E-01	92.0	1.1540E+00	1.0251E+00	152.0	2.8752E+00	1.7655E+00
32.0	1.0304E+00	1.0014E+00	94.0	1.0803E+00	1.0334E+00	154.0	1.7970E+00	2.3937E+00
34.0	1.0223E+00	1.0039E+00	96.0	8.7040E-01	1.0332E+00	156.0	2.2105E-01	3.0079E+00
36.0	9.9393E-01	1.0047E+00	98.0	7.8957E-01	1.0281E+00	158.0	7.7544E-01	2.7520E+00
38.0	9.6575E-01	1.0031E+00	100.0	9.6779E-01	1.0293E+00	160.0	3.7222E+00	2.2397E+00
40.0	9.6171E-01	1.0005E+00	102.0	1.1931E+00	1.0408E+00	162.0	6.3705E+00	3.5864E+00
42.0	9.8913E-01	9.9892E-01	104.0	1.1515E+00	1.0530E+00	164.0	5.9619E+00	7.0581E+00
44.0	1.0290E+00	9.9997E-01	106.0	8.5918E-01	1.0557E+00	166.0	2.7407E+00	8.6523E+00
46.0	1.0480E+00	1.0030E+00	108.0	6.9756E-01	1.0521E+00	168.0	2.0500E+00	5.3047E+00
48.0	1.0263E+00	1.0057E+00	110.0	9.2066E-01	1.0555E+00	170.0	1.5547E+01	5.8321E+00
50.0	9.7910E-01	1.0059E+00	112.0	1.2579E+00	1.0706E+00	172.0	5.8811E+01	3.3650E+01
52.0	9.4739E-01	1.0035E+00	114.0	1.2243E+00	1.0867E+00	174.0	1.4064E+02	1.0981E+02
54.0	9.6350E-01	1.0009E+00	116.0	8.0997E-01	1.0938E+00	176.0	2.4813E+02	2.2601E+02
56.0	1.0171E+00	1.0010E+00	118.0	5.7904E-01	1.0966E+00	178.0	3.4312E+02	3.3591E+02
58.0	1.0582E+00	1.0042E+00	120.0	9.1055E-01	1.1064E+00	180.0	3.8136E+02	3.8136E+02
60.0	1.0420E+00	1.0080E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=19.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0372E+00	1.0372E+00	62.0	1.0282E+00	1.0087E+00	122.0	1.2756E+00	1.1217E+00
2.0	1.0316E+00	1.0354E+00	64.0	9.5705E-01	1.0085E+00	124.0	1.4043E+00	1.1420E+00
4.0	1.0166E+00	1.0305E+00	66.0	9.2160E-01	1.0052E+00	126.0	8.6897E-01	1.1634E+00
6.0	9.9628E-01	1.0230E+00	68.0	9.6703E-01	1.0039E+00	128.0	4.1703E-01	1.1864E+00
8.0	9.7680E-01	1.0141E+00	70.0	1.0527E+00	1.0030E+00	130.0	7.8850E-01	1.2052E+00
10.0	9.6511E-01	1.0052E+00	72.0	1.0842E+00	1.0104E+00	132.0	1.5283E+00	1.2180E+00
12.0	9.6684E-01	9.9818E-01	74.0	1.0159E+00	1.0140E+00	134.0	1.5098E+00	1.2472E+00
14.0	9.8314E-01	9.9438E-01	76.0	8.9947E-01	1.0123E+00	136.0	6.5744E-01	1.3144E+00
16.0	1.0082E+00	9.9435E-01	78.0	8.9947E-01	1.0081E+00	138.0	2.3603E-01	1.3833E+00
18.0	1.0301E+00	9.9734E-01	80.0	1.0003E+00	1.0077E+00	140.0	1.0294E+00	1.3921E+00
20.0	1.0367E+00	1.0015E+00	82.0	1.0688E+00	1.0135E+00	142.0	1.9804E+00	1.3803E+00
22.0	1.0231E+00	1.0047E+00	84.0	1.0829E+00	1.0205E+00	144.0	1.6161E+00	1.4876E+00
24.0	9.9615E-01	1.0053E+00	86.0	9.3827E-01	1.0217E+00	146.0	3.6985E-01	1.7187E+00
26.0	9.7181E-01	1.0034E+00	88.0	8.4408E-01	1.0172E+00	148.0	1.9635E-01	1.8325E+00
28.0	9.6598E-01	1.0004E+00	90.0	9.3136E-01	1.0148E+00	150.0	1.6718E+00	1.7089E+00
30.0	9.8347E-01	9.9835E-01	92.0	1.1086E+00	1.0209E+00	152.0	2.8841E+00	1.7288E+00
32.0	1.0129E+00	9.9854E-01	94.0	1.1463E+00	1.0311E+00	154.0	2.0602E+00	2.3119E+00
34.0	1.0328E+00	1.0010E+00	96.0	9.6939E-01	1.0354E+00	156.0	3.5702E-01	3.0081E+00
36.0	1.0267E+00	1.0036E+00	98.0	7.9045E-01	1.0314E+00	158.0	5.6637E-01	2.8566E+00
38.0	9.9756E-01	1.0045E+00	100.0	8.9987E-01	1.0286E+00	160.0	3.3946E+00	2.2561E+00
40.0	9.6830E-01	1.0031E+00	102.0	1.1150E+00	1.0363E+00	162.0	6.3154E+00	3.3824E+00
42.0	9.6510E-01	1.0006E+00	104.0	1.2146E+00	1.0500E+00	164.0	6.2625E+00	6.8921E+00
44.0	9.9438E-01	9.9934E-01	106.0	9.8735E-01	1.0573E+00	166.0	3.0759E+00	8.8571E+00
46.0	1.0334E+00	1.0007E+00	108.0	7.1464E-01	1.0500E+00	168.0	1.8434E+00	5.6402E+00
48.0	1.0466E+00	1.0039E+00	110.0	7.9239E-01	1.0547E+00	170.0	1.4427E-01	5.4325E+00
50.0	1.0172E+00	1.0052E+00	112.0	1.1568E+00	1.0663E+00	172.0	5.7264E+01	3.2268E+01
52.0	9.6727E-01	1.0058E+00	114.0	1.2998E+00	1.0837E+00	174.0	1.4030E+02	1.0893E+02
54.0	9.4254E-01	1.0031E+00	116.0	9.6654E-01	1.0945E+00	176.0	2.5089E+02	2.2812E+02
56.0	9.7074E-01	1.0008E+00	118.0	5.9236E-01	1.0981E+00	178.0	3.4941E+02	3.4194E+02
58.0	1.0296E+00	1.0017E+00	120.0	7.4907E-01	1.1054E+00	180.0	3.8923E+02	3.8923E+02
60.0	1.0614E+00	1.0054E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=19.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.8902E-01	9.8932E-01	62.0	1.0619E+00	1.0068E+00	122.0	1.1211E+00	1.1192E+00
2.0	9.9290E-01	9.9053E-01	64.0	1.0096E+00	1.0093E+00	124.0	1.4509E+00	1.1388E+00
4.0	1.0021E+00	9.9435E-01	66.0	9.3817E-01	1.0083E+00	126.0	1.0600E+00	1.1603E+00
6.0	1.0104E+00	9.9923E-01	68.0	9.2670E-01	1.0045E+00	128.0	4.6801E-01	1.1846E+00
8.0	1.0118E+00	1.0030E+00	70.0	9.9683E-01	1.0036E+00	130.0	6.0923E-01	1.2055E+00
10.0	1.0043E+00	1.0044E+00	72.0	1.0764E+00	1.0073E+00	132.0	1.3780E+00	1.2192E+00
12.0	9.9239E-01	1.0033E+00	74.0	1.0599E+00	1.0128E+00	134.0	1.6239E+00	1.2410E+00
14.0	9.8464E-01	1.0006E+00	76.0	9.7183E-01	1.0144E+00	136.0	8.7068E-01	1.3024E+00
16.0	9.8807E-01	9.9818E-01	78.0	8.8997E-01	1.0110E+00	138.0	2.1881E-01	1.3807E+00
18.0	1.0024E+00	9.9746E-01	80.0	9.2312E-01	1.0077E+00	140.0	7.9092E-01	1.4042E+00
20.0	1.0189E+00	9.9834E-01	82.0	1.0559E+00	1.0102E+00	142.0	1.8765E+00	1.3856E+00
22.0	1.0256E+00	1.0017E+00	84.0	1.1175E+00	1.0177E+00	144.0	1.8048E+00	1.4618E+00
24.0	1.0155E+00	1.0041E+00	86.0	1.0216E+00	1.0227E+00	146.0	5.6909E-01	1.6921E+00
26.0	9.9251E-01	1.0045E+00	88.0	8.7162E-01	1.0205E+00	148.0	8.7863E-02	1.8497E+00
28.0	9.7117E-01	1.0027E+00	90.0	8.6111E-01	1.0158E+00	150.0	1.4023E+00	1.7453E+00
30.0	9.6779E-01	9.9931E-01	92.0	1.0244E+00	1.0178E+00	152.0	2.8409E+00	1.7036E+00
32.0	9.8787E-01	9.9815E-01	94.0	1.1600E+00	1.0272E+00	154.0	2.3068E+00	2.2282E+00
34.0	1.0193E+00	9.9873E-01	96.0	1.0716E+00	1.0355E+00	156.0	5.3121E-01	2.9924E+00
36.0	1.0388E+00	1.0013E+00	98.0	8.4887E-01	1.0348E+00	158.0	3.9470E-01	2.9578E+00
38.0	1.0293E+00	1.0040E+00	100.0	7.8951E-01	1.0300E+00	160.0	3.0591E+00	2.2927E+00
40.0	9.9564E-01	1.0049E+00	102.0	1.0032E+00	1.0330E+00	162.0	6.2131E+00	3.1920E+00
42.0	9.6441E-01	1.0033E+00	104.0	1.2166E+00	1.0458E+00	164.0	6.5382E+00	6.6851E+00
44.0	9.6336E-01	1.0007E+00	106.0	1.1111E+00	1.0571E+00	166.0	3.4315E+00	9.0353E+00
46.0	9.9627E-01	9.9905E-01	108.0	7.9275E-01	1.0580E+00	168.0	1.6836E+00	5.9946E+00
48.0	1.0354E+00	1.0013E+00	110.0	7.0740E-01	1.0555E+00	170.0	1.3344E+01	5.0845E+00
50.0	1.0430E+00	1.0045E+00	112.0	1.0197E+00	1.0628E+00	172.0	5.5692E+01	3.0886E+01
52.0	1.0067E+00	1.0064E+00	114.0	1.3095E+00	1.0798E+00	174.0	1.3988E+02	1.0798E+02
54.0	9.5714E-01	1.0054E+00	116.0	1.1214E+00	1.0940E+00	176.0	2.5260E+02	2.3016E+02
56.0	9.4338E-01	1.0024E+00	118.0	6.7214E-01	1.0998E+00	178.0	3.5574E+02	3.4800E+02
58.0	9.8509E-01	1.0008E+00	120.0	6.2705E-01	1.1053E+00	180.0	3.9718E+02	3.9718E+02
60.0	1.0457E+00	1.0027E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=19.8

ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE
0.0	9.5444E-01	9.5444E-01	62.0	1.0593E+00	1.0041E+00
2.0	9.6370E-01	9.5762E-01	64.0	1.0536E+00	1.0083E+00
4.0	9.8764E-01	9.6636E-01	66.0	9.8385E-01	1.0097E+00
6.0	1.0160E+00	9.7847E-01	68.0	9.2188E-01	1.0072E+00
8.0	1.0362E+00	9.9095E-01	70.0	9.4168E-01	1.0040E+00
10.0	1.0389E+00	1.0003E+00	72.0	1.0303E+00	1.0048E+00
12.0	1.0234E+00	1.0063E+00	74.0	1.0879E+00	1.0039E+00
14.0	9.9842E-01	1.0068E+00	76.0	1.0372E+00	1.0145E+00
16.0	9.7792E-01	1.0040E+00	78.0	9.2561E-01	1.0139E+00
18.0	9.7324E-01	1.0003E+00	80.0	8.6686E-01	1.0096E+00
20.0	9.8638E-01	9.9700E-01	82.0	9.8153E-01	1.0084E+00
22.0	1.0082E+00	9.9809E-01	84.0	1.1034E+00	1.0139E+00
24.0	1.0235E+00	1.0003E+00	86.0	1.0920E+00	1.0214E+00
26.0	1.0206E+00	1.0028E+00	88.0	9.4178E-01	1.0231E+00
28.0	1.0006E+00	1.0038E+00	90.0	8.3755E-01	1.0186E+00
30.0	9.7851E-01	1.0026E+00	92.0	9.3068E-01	1.0164E+00
32.0	9.7292E-01	1.0003E+00	94.0	1.1184E+00	1.0231E+00
34.0	9.9116E-01	9.9877E-01	96.0	1.1454E+00	1.0335E+00
36.0	1.0209E+00	9.9943E-01	98.0	9.4618E-01	1.0372E+00
38.0	1.0375E+00	1.0019E+00	100.0	7.7542E-01	1.0329E+00
40.0	1.0239E+00	1.0034E+00	102.0	8.8816E-01	1.0315E+00
42.0	9.8748E-01	1.0049E+00	104.0	1.1580E+00	1.0413E+00
44.0	9.5794E-01	1.0030E+00	106.0	1.2000E+00	1.0551E+00
46.0	9.6317E-01	1.0004E+00	108.0	9.1212E-01	1.0603E+00
48.0	1.0023E+00	9.9973E-01	110.0	6.6322E-01	1.0577E+00
50.0	1.0414E+00	1.0018E+00	112.0	8.7561E-01	1.0607E+00
52.0	1.0413E+00	1.0051E+00	114.0	1.2522E+00	1.0756E+00
54.0	9.9731E-01	1.0065E+00	116.0	1.2452E+00	1.0923E+00
56.0	9.4994E-01	1.0049E+00	118.0	8.0291E-01	1.1007E+00
58.0	9.4975E-01	1.0020E+00	120.0	5.6372E-01	1.1058E+00
60.0	1.0037E+00	1.0012E+00			

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=20.0

ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE
0.0	9.6636E-01	9.6636E-01	62.0	1.0225E+00	1.0021E+00
2.0	9.7170E-01	9.6802E-01	64.0	1.0659E+00	1.0058E+00
4.0	9.8659E-01	9.7294E-01	66.0	1.0346E+00	1.0095E+00
6.0	1.0071E+00	9.8033E-01	68.0	9.5454E-01	1.0095E+00
8.0	1.0263E+00	9.8907E-01	70.0	9.1481E-01	1.0061E+00
10.0	1.0362E+00	9.9767E-01	72.0	9.6956E-01	1.0039E+00
12.0	1.0313E+00	1.0042E+00	74.0	1.0635E+00	1.0068E+00
14.0	1.0123E+00	1.0072E+00	76.0	1.0825E+00	1.0126E+00
16.0	9.3756E-01	1.0055E+00	78.0	9.9040E-01	1.0154E+00
18.0	9.6354E-01	1.0031E+00	80.0	8.9089E-01	1.0125E+00
20.0	9.5877E-01	9.9926E-01	82.0	9.1417E-01	1.0088E+00
22.0	9.8692E-01	9.9700E-01	84.0	1.0470E+00	1.0108E+00
24.0	1.0130E+00	9.9744E-01	86.0	1.1234E+00	1.0184E+00
26.0	1.0321E+00	1.0063E+00	88.0	1.0280E+00	1.0239E+00
28.0	1.0285E+00	1.0029E+00	90.0	8.6734E-01	1.0219E+00
30.0	1.0045E+00	1.0042E+00	92.0	8.5840E-01	1.0173E+00
32.0	9.7773E-01	1.0032E+00	94.0	1.0358E+00	1.0198E+00
34.0	9.6929E-01	1.0008E+00	96.0	1.1684E+00	1.0300E+00
36.0	9.8743E-01	9.9916E-01	98.0	1.0524E+00	1.0379E+00
38.0	1.0183E+00	9.9974E-01	100.0	8.1994E-01	1.0362E+00
40.0	1.0345E+00	1.0022E+00	102.0	6.0053E-01	1.0322E+00
42.0	1.0191E+00	1.0044E+00	104.0	1.0547E+00	1.0376E+00
44.0	9.8207E-01	1.0046E+00	106.0	1.2327E+00	1.0316E+00
46.0	9.5647E-01	1.0025E+00	108.0	1.0441E+00	1.0611E+00
48.0	9.6952E-01	1.0002E+00	110.0	7.2390E-01	1.0604E+00
50.0	1.0139E+00	1.0001E+00	112.0	7.5468E-01	1.0603E+00
52.0	1.0489E+00	1.0027E+00	114.0	1.1405E+00	1.0717E+00
54.0	1.0369E+00	1.0059E+00	116.0	1.3157E+00	1.0894E+00
56.0	9.8432E-01	1.0067E+00	118.0	9.6084E-01	1.1010E+00
58.0	9.4257E-01	1.0044E+00	120.0	5.6861E-01	1.1067E+00
60.0	9.5900E-01	1.0018E+00			

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BI-STATIC SCATTERING FROM CONDUCTING SPHERE

KA=20.2

ANGLE	CROSS SECTION		ANGLE	CROSS SECTION		ANGLE	CROSS SECTION		ANGLE	CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE			
0.0	1.0116E+00	1.0116E+00	62.0	9.7335E-01	1.0017E+00	122.0	6.4022E-01	1.1160E+00			
2.0	1.0076E+00	1.0100E+00	64.0	1.0418E+00	1.0032E+00	124.0	1.0948E+00	1.1312E+00			
4.0	9.9855E-01	1.0060E+00	66.0	1.0651E+00	1.0075E+00	126.0	1.4547E+00	1.1506E+00			
6.0	9.9146E-01	1.0014E+00	68.0	1.0081E+00	1.0103E+00	128.0	9.3127E-01	1.1749E+00			
8.0	9.9195E-01	9.9805E-01	70.0	9.2912E-01	1.0087E+00	130.0	3.9724E-01	1.2048E+00			
10.0	1.0003E+00	9.9722E-01	72.0	9.2372E-01	1.0051E+00	132.0	7.7616E-01	1.2267E+00			
12.0	1.0110E+00	9.9882E-01	74.0	1.0093E+00	1.0048E+00	134.0	1.2359E+00	1.2359E+00			
14.0	1.0158E+00	1.0016E+00	76.0	1.0883E+00	1.0096E+00	136.0	1.4858E+00	1.2689E+00			
16.0	1.0096E+00	1.0037E+00	78.0	1.0555E+00	1.0149E+00	138.0	5.4076E-01	1.3531E+00			
18.0	9.9443E-01	1.0032E+00	80.0	9.3739E-01	1.0151E+00	140.0	2.6894E-01	1.4271E+00			
20.0	9.8018E-01	1.0020E+00	82.0	8.8020E-01	1.0109E+00	142.0	1.2931E+00	1.4170E+00			
22.0	9.7838E-01	9.9939E-01	84.0	9.7066E-01	1.0093E+00	144.0	2.0894E+00	1.4145E+00			
24.0	9.9336E-01	9.9781E-01	86.0	1.1043E+00	1.0148E+00	146.0	1.5921E+00	1.5921E+00			
26.0	1.0168E+00	9.9840E-01	88.0	1.0982E+00	1.0227E+00	148.0	9.9009E-02	1.8527E+00			
28.0	1.0318E+00	1.0008E+00	90.0	9.3843E-01	1.0244E+00	150.0	6.2471E-01	1.8647E+00			
30.0	1.0249E+00	1.0035E+00	92.0	8.3081E-01	1.0199E+00	152.0	2.4266E+00	1.6989E+00			
32.0	9.9843E-01	1.0044E+00	94.0	9.3910E-01	1.0182E+00	154.0	2.8727E+00	1.9905E+00			
34.0	9.7098E-01	1.0031E+00	96.0	1.1346E+00	1.0259E+00	156.0	1.2143E+00	2.8569E+00			
36.0	9.6498E-01	1.0005E+00	98.0	1.1361E+00	1.0364E+00	158.0	1.2824E-01	3.2144E+00			
38.0	9.8764E-01	9.9897E-01	100.0	9.0929E-01	1.0390E+00	160.0	2.0615E+00	2.5077E+00			
40.0	1.0218E+00	9.9976E-01	102.0	7.6338E-01	1.0344E+00	162.0	5.6909E+00	2.7249E+00			
42.0	1.0376E+00	1.0024E+00	104.0	9.3442E-01	1.0353E+00	164.0	7.1959E+00	5.9940E+00			
44.0	1.0182E+00	1.0046E+00	106.0	1.2027E+00	1.0473E+00	166.0	4.5812E+00	9.3946E+00			
46.0	9.7886E-01	1.0044E+00	108.0	1.1579E+00	1.0602E+00	168.0	1.5353E+00	7.1374E+00			
48.0	9.5697E-01	1.0022E+00	110.0	8.1947E-01	1.0630E+00	170.0	1.0344E+01	4.3491E+00			
50.0	9.7756E-01	1.0002E+00	112.0	6.8205E-01	1.0612E+00	172.0	5.0858E+01	2.6819E+01			
52.0	1.0247E+00	1.0028E+00	114.0	9.9783E-01	1.0686E+00	174.0	1.3818E+02	1.0480E+02			
54.0	1.0514E+00	1.0038E+00	116.0	1.3207E+00	1.0859E+00	176.0	2.6142E+02	2.3593E+02			
56.0	1.0251E+00	1.0066E+00	118.0	1.1179E+00	1.1004E+00	178.0	3.7491E+02	3.6633E+02			
58.0	9.6689E-01	1.0065E+00	120.0	6.3996E-01	1.1076E+00	180.0	4.2148E+02	4.2148E+02			
60.0	9.3717E-01	1.0037E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=20.4

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION		NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION	
ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE	ANGLE	E-PLANE	H-PLANE	ANGLE
0.0	1.0452E+00	1.0452E+00	62.0	9.3981E-01	1.0030E+00	122.0	5.5750E-01	1.1161E+00	
2.0	1.0355E+00	1.0419E+00	64.0	9.9586E-01	1.0019E+00	124.0	1.0230E+00	1.1297E+00	
4.0	1.0113E+00	1.0308E+00	66.0	1.0604E+00	1.0048E+00	126.0	1.4693E+00	1.1479E+00	
6.0	9.8399E-01	1.0206E+00	68.0	1.0551E+00	1.0092E+00	128.0	1.1219E+00	1.1710E+00	
8.0	9.6651E-01	1.0005E+00	70.0	9.7621E-01	1.0105E+00	130.0	4.5985E-01	1.2020E+00	
10.0	9.6666E-01	9.9915E-01	72.0	9.1350E-01	1.0075E+00	132.0	5.9626E-01	1.2288E+00	
12.0	9.8354E-01	9.9513E-01	74.0	9.5026E-01	1.0047E+00	134.0	1.4317E+00	1.2382E+00	
14.0	1.0075E+00	9.9544E-01	76.0	1.0523E+00	1.0067E+00	136.0	1.6206E+00	1.2613E+00	
16.0	1.0245E+00	9.9862E-01	78.0	1.0923E+00	1.0127E+00	138.0	7.4015E-01	1.3395E+00	
18.0	1.0246E+00	1.0021E+00	80.0	1.0059E+00	1.0163E+00	140.0	2.0008E-01	1.4276E+00	
20.0	1.0082E+00	1.0039E+00	82.0	8.9194E-01	1.0139E+00	142.0	1.0524E+00	1.4321E+00	
22.0	9.8737E-01	1.0031E+00	84.0	9.0413E-01	1.0099E+00	144.0	2.0648E+00	1.4108E+00	
24.0	9.7784E-01	1.0008E+00	86.0	1.0430E+00	1.0118E+00	146.0	1.5293E+00	1.5578E+00	
26.0	9.8746E-01	9.9894E-01	88.0	1.1276E+00	1.0197E+00	148.0	2.1148E-01	1.6370E+00	
28.0	1.0092E+00	9.9836E-01	90.0	1.0253E+00	1.0253E+00	150.0	4.1402E-01	1.9008E+00	
30.0	1.0253E+00	1.0009E+00	92.0	8.5624E-01	1.0231E+00	152.0	2.2106E+00	1.7193E+00	
32.0	1.0204E+00	1.0032E+00	94.0	8.5998E-01	1.0188E+00	154.0	2.9842E+00	1.9235E+00	
34.0	9.9559E-01	1.0039E+00	96.0	1.0558E+00	1.0224E+00	156.0	1.4807E+00	2.7868E+00	
36.0	9.7046E-01	1.0026E+00	98.0	1.1735E+00	1.0333E+00	158.0	1.2577E-01	3.2769E+00	
38.0	9.6829E-01	1.0002E+00	100.0	1.0178E+00	1.0402E+00	160.0	1.7495E+00	2.6073E+00	
40.0	9.9494E-01	9.9899E-01	102.0	7.8604E-01	1.0375E+00	162.0	5.4527E+00	5.7399E+00	
42.0	1.0296E+00	1.0002E+00	104.0	8.2863E-01	1.0348E+00	164.0	7.3495E+00	5.7399E+00	
44.0	1.0403E+00	1.0030E+00	106.0	1.1188E+00	1.0432E+00	166.0	4.9794E+00	9.4529E+00	
46.0	1.0133E+00	1.0050E+00	108.0	1.2278E+00	1.0377E+00	168.0	1.5814E+00	7.5339E+00	
48.0	9.7115E-01	1.0044E+00	110.0	9.4804E-01	1.0647E+00	170.0	9.4340E+00	4.2055E+00	
50.0	9.5501E-01	1.0020E+00	112.0	6.7221E-01	1.0632E+00	172.0	4.9217E+01	2.5501E+01	
52.0	9.8469E-01	1.0003E+00	114.0	8.5306E-01	1.0668E+00	174.0	1.3746E+02	1.0363E+02	
54.0	1.0333E+00	1.0016E+00	116.0	1.2607E+00	1.0820E+00	176.0	2.6392E+02	2.3774E+02	
56.0	1.0490E+00	1.0049E+00	118.0	1.2466E+00	1.0987E+00	178.0	3.8136E+02	3.7249E+02	
58.0	1.0088E+00	1.0071E+00	120.0	7.6488E-01	1.1082E+00	180.0	4.2975E+02	4.2975E+02	
60.0	9.5066E-01	1.0060E+00							

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=20.6

NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE
E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE	
0.0	1.0350E+00	0.0	1.0350E+00	1.0350E+00	62.0	9.3953E-01	1.0052E+00	122.0	5.3996E-01	1.1164E+00	122.0
2.0	1.0290E+00	2.0	1.0331E+00	1.0242E+00	64.0	9.5258E-01	1.0024E+00	124.0	8.4609E-01	1.1288E+00	124.0
4.0	1.0130E+00	4.0	1.0277E+00	1.0235E+00	66.0	1.0235E+00	1.0027E+00	126.0	1.4100E+00	1.1458E+00	126.0
6.0	9.9238E-01	6.0	1.0198E+00	1.0068E+00	68.0	1.0715E+00	1.0068E+00	128.0	1.2907E+00	1.1672E+00	128.0
8.0	9.7453E-01	8.0	1.0107E+00	1.0015E+00	70.0	1.0315E+00	1.0100E+00	130.0	5.8150E-01	1.1982E+00	130.0
10.0	9.6695E-01	10.0	1.0024E+00	1.0004E+00	72.0	9.4203E-01	1.0100E+00	132.0	4.6016E-01	1.2293E+00	132.0
12.0	9.7420E-01	12.0	9.9650E-01	1.0064E+00	74.0	9.1297E-01	1.0064E+00	134.0	1.2492E+00	1.2418E+00	134.0
14.0	9.9447E-01	14.0	9.9449E-01	1.0052E+00	76.0	9.9130E-01	1.0052E+00	136.0	1.6970E+00	1.2563E+00	136.0
16.0	1.0183E+00	16.0	9.9599E-01	1.0096E+00	78.0	1.0856E+00	1.0096E+00	138.0	9.5939E-01	1.3251E+00	138.0
18.0	1.0323E+00	18.0	9.9965E-01	1.0155E+00	80.0	1.0871E+00	1.0155E+00	140.0	1.9451E-01	1.4239E+00	140.0
20.0	1.0272E+00	20.0	1.0032E+00	1.0163E+00	82.0	9.4369E-01	1.0163E+00	142.0	8.1485E-01	1.4489E+00	142.0
22.0	1.0052E+00	22.0	1.0048E+00	1.0122E+00	84.0	8.7330E-01	1.0122E+00	144.0	1.9813E+00	1.4132E+00	144.0
24.0	9.8022E-01	24.0	1.0036E+00	1.0104E+00	86.0	9.6398E-01	1.0104E+00	146.0	1.7430E+00	1.5258E+00	146.0
26.0	9.6943E-01	26.0	1.0009E+00	1.0161E+00	88.0	1.1059E+00	1.0161E+00	148.0	3.7011E-01	1.8138E+00	148.0
28.0	9.8129E-01	28.0	9.9874E-01	1.0242E+00	90.0	1.0979E+00	1.0242E+00	150.0	2.4190E-01	1.9318E+00	150.0
30.0	1.0076E+00	30.0	9.9860E-01	1.0257E+00	92.0	9.2549E-01	1.0257E+00	152.0	1.9676E+00	1.7488E+00	152.0
32.0	1.0277E+00	32.0	1.0005E+00	1.0210E+00	94.0	8.2379E-01	1.0210E+00	154.0	3.0503E+00	1.8658E+00	154.0
34.0	1.0240E+00	34.0	1.0029E+00	1.0204E+00	96.0	9.5777E-01	1.0204E+00	156.0	1.7481E+00	2.7068E+00	156.0
36.0	9.9812E-01	36.0	1.0038E+00	1.0293E+00	98.0	1.1550E+00	1.0293E+00	158.0	1.6592E-01	3.3251E+00	158.0
38.0	9.7233E-01	38.0	1.0025E+00	1.0395E+00	100.0	1.1147E+00	1.0395E+00	160.0	1.4557E+00	2.7167E+00	160.0
40.0	9.7181E-01	40.0	1.0003E+00	1.0405E+00	102.0	8.6133E-01	1.0405E+00	162.0	5.1874E+00	2.5170E+00	162.0
42.0	1.0004E+00	42.0	9.9942E-01	1.0363E+00	104.0	7.6434E-01	1.0363E+00	164.0	7.4675E+00	5.4788E+00	164.0
44.0	1.0331E+00	44.0	1.0010E+00	1.0027E+00	106.0	1.0027E+00	1.0027E+00	166.0	5.3789E+00	9.4797E+00	166.0
46.0	1.0365E+00	46.0	1.0037E+00	1.0040E+00	108.0	1.2384E+00	1.0040E+00	168.0	1.8732E+00	7.9327E+00	168.0
48.0	1.0024E+00	48.0	1.0053E+00	1.0650E+00	110.0	1.0805E+00	1.0650E+00	170.0	8.5713E+00	4.1116E+00	170.0
50.0	9.6088E-01	50.0	1.0041E+00	1.0657E+00	112.0	7.2593E-01	1.0657E+00	172.0	4.7565E+01	2.4206E+01	172.0
52.0	9.5505E-01	52.0	1.0015E+00	1.0663E+00	114.0	7.3474E-01	1.0663E+00	174.0	1.3668E+02	1.0240E+02	174.0
54.0	9.9571E-01	54.0	1.0004E+00	1.0784E+00	116.0	1.1478E+00	1.0784E+00	176.0	2.6635E+02	2.3947E+02	176.0
56.0	1.0434E+00	56.0	1.0024E+00	1.0962E+00	118.0	1.3245E+00	1.0962E+00	178.0	3.8784E+02	3.7867E+02	178.0
58.0	1.0444E+00	58.0	1.0058E+00	1.1083E+00	120.0	9.2156E-01	1.1083E+00	180.0	4.3809E+02	4.3809E+02	180.0
60.0	9.9112E-01	60.0	1.0072E+00								

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=20.8

ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE
0.0	9.9235E-01	9.9235E-01	62.0	9.7079E-01	1.0072E+00	122.0	5.8910E-01	1.1167E+00	180.0	4.4652E+02	4.4652E+02
2.0	9.9573E-01	9.9369E-01	64.0	9.7393E-01	1.0044E+00	124.0	6.8956E-01	1.1282E+00			
4.0	1.0033E+00	9.9707E-01	66.0	9.7351E-01	1.0023E+00	126.0	1.3030E+00	1.1442E+00			
6.0	1.0092E+00	1.0009E+00	68.0	1.0494E+00	1.0043E+00	128.0	1.4168E+00	1.1639E+00			
8.0	1.0079E+00	1.0035E+00	70.0	1.0678E+00	1.0089E+00	130.0	7.4734E-01	1.1937E+00			
10.0	9.9925E-01	1.0038E+00	72.0	9.9478E-01	1.0113E+00	132.0	3.8177E-01	1.2287E+00			
12.0	9.8932E-01	1.0019E+00	74.0	9.1417E-01	1.0090E+00	134.0	1.0430E+00	1.2458E+00			
14.0	9.8672E-01	9.9934E-01	76.0	9.3341E-01	1.0056E+00	136.0	1.7087E+00	1.2541E+00			
16.0	9.9553E-01	9.9778E-01	78.0	1.0399E+00	1.0070E+00	138.0	1.1801E+00	1.3111E+00			
18.0	1.0110E+00	9.9828E-01	80.0	1.0965E+00	1.0130E+00	140.0	2.5176E-01	1.4161E+00			
20.0	1.0219E+00	1.0005E+00	82.0	1.0143E+00	1.0172E+00	142.0	5.9634E-01	1.4601E+00			
22.0	1.0181E+00	1.0030E+00	84.0	8.8977E-01	1.0150E+00	144.0	1.8444E+00	1.4210E+00			
24.0	9.9956E-01	1.0040E+00	86.0	8.9758E-01	1.0110E+00	146.0	1.9216E+00	1.4978E+00			
26.0	9.7821E-01	1.0028E+00	88.0	1.0453E+00	1.0131E+00	148.0	5.6667E-01	1.7842E+00			
28.0	9.7093E-01	1.0003E+00	90.0	1.1317E+00	1.0214E+00	150.0	1.1514E-01	1.9562E+00			
30.0	9.8615E-01	9.9847E-01	92.0	1.0146E+00	1.0268E+00	152.0	1.7064E+00	1.7857E+00			
32.0	1.0145E+00	9.9871E-01	94.0	8.4120E-01	1.0240E+00	154.0	3.0693E+00	1.8188E+00			
34.0	1.0336E+00	1.0009E+00	96.0	8.7095E-01	1.0203E+00	156.0	2.0131E+00	2.6197E+00			
36.0	1.0255E+00	1.0034E+00	98.0	1.0870E+00	1.0256E+00	158.0	2.4700E-01	3.3578E+00			
38.0	9.9488E-01	1.0041E+00	100.0	1.1727E+00	1.0370E+00	160.0	1.1849E+00	2.8331E+00			
40.0	9.6797E-01	1.0025E+00	102.0	9.6765E-01	1.0424E+00	162.0	4.8969E+00	2.4472E+00			
42.0	9.7080E-01	1.0003E+00	104.0	7.5691E-01	1.0388E+00	164.0	7.5433E+00	5.2138E+00			
44.0	1.0032E+00	9.9970E-01	106.0	8.8315E-01	1.0385E+00	166.0	5.7759E+00	9.4747E+00			
46.0	1.0346E+00	1.0015E+00	108.0	1.1881E+00	1.0499E+00	168.0	1.8685E+00	8.3303E+00			
48.0	1.0312E+00	1.0042E+00	110.0	1.1873E+00	1.0679E+00	170.0	7.7991E+00	4.0682E+00			
50.0	9.9163E-01	1.0052E+00	112.0	8.3052E-01	1.0679E+00	172.0	4.5908E+01	2.2936E+01			
52.0	9.5449E-01	1.0035E+00	114.0	6.6554E-01	1.0672E+00	174.0	1.3582E+02	1.0111E+02			
54.0	9.6211E-01	1.0010E+00	116.0	1.0037E+00	1.0755E+00	176.0	2.6873E+02	2.4115E+02			
56.0	1.0124E+00	1.0008E+00	118.0	1.3385E+00	1.0930E+00	178.0	3.9435E+02	3.8487E+02			
58.0	1.0530E+00	1.0036E+00	120.0	1.0834E+00	1.1076E+00	180.0	4.4652E+02	4.4652E+02			
60.0	1.0344E+00	1.0068E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=21.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.5961E-01	9.5961E-01	62.0	1.0152E+00	1.0077E+00	122.0	6.9631E-01	1.1169E+00
2.0	9.6286E-01	9.6286E-01	64.0	9.4890E-01	1.0067E+00	124.0	5.7590E-01	1.1279E+00
4.0	9.9222E-01	9.7145E-01	66.0	9.3671E-01	1.0036E+00	126.0	1.1465E+00	1.1431E+00
6.0	1.0183E+00	9.8309E-01	68.0	1.0014E+00	1.0028E+00	128.0	1.4850E+00	1.1611E+00
8.0	1.0341E+00	9.9447E-01	70.0	1.0681E+00	1.0063E+00	130.0	9.3724E-01	1.1888E+00
10.0	1.0315E+00	1.0027E+00	72.0	1.0469E+00	1.0107E+00	132.0	3.6878E-01	1.2265E+00
12.0	1.0128E+00	1.0061E+00	74.0	9.5294E-01	1.0111E+00	134.0	8.3393E-01	1.2496E+00
14.0	9.8985E-01	1.0052E+00	76.0	9.0485E-01	1.0075E+00	136.0	1.6556E+00	1.2545E+00
16.0	9.7671E-01	1.0019E+00	78.0	9.7641E-01	1.0058E+00	138.0	1.3841E+00	1.284E+00
18.0	9.8120E-01	9.9899E-01	80.0	1.0830E+00	1.0099E+00	140.0	3.6673E-01	1.4048E+00
20.0	9.9926E-01	9.9800E-01	82.0	1.0751E+00	1.0161E+00	142.0	4.1140E-01	1.4704E+00
22.0	1.0171E+00	9.9944E-01	84.0	9.4606E-01	1.0173E+00	144.0	1.6632E+00	1.4333E+00
24.0	1.0205E+00	1.0018E+00	86.0	8.6828E-01	1.0132E+00	146.0	2.0556E+00	1.4749E+00
26.0	1.0058E+00	1.0032E+00	88.0	9.6573E-01	1.0116E+00	148.0	7.9123E-01	1.7496E+00
28.0	9.9477E-01	1.0025E+00	90.0	1.1156E+00	1.0179E+00	150.0	3.8370E-02	1.9727E+00
30.0	9.7621E-01	1.0005E+00	92.0	1.0931E+00	1.0260E+00	152.0	1.4306E+00	1.8280E+00
32.0	9.9012E-01	9.9899E-01	94.0	9.0506E-01	1.0268E+00	154.0	3.0409E+00	1.7837E+00
34.0	1.0167E+00	9.9940E-01	96.0	8.2138E-01	1.0221E+00	156.0	2.2686E+00	2.5275E+00
36.0	1.0321E+00	1.0016E+00	98.0	9.9028E-01	1.0230E+00	158.0	3.6448E-01	3.3741E+00
38.0	1.0194E+00	1.0038E+00	100.0	1.1761E+00	1.0334E+00	160.0	9.4105E-01	2.9539E+00
40.0	9.8633E-01	1.0040E+00	102.0	1.0755E+00	1.0426E+00	162.0	4.5913E+00	2.4009E+00
42.0	9.6242E-01	1.0022E+00	104.0	8.0687E-01	1.0418E+00	164.0	7.5940E+00	4.9479E+00
44.0	9.7267E-01	1.0000E+00	106.0	7.8919E-01	1.0386E+00	166.0	6.1608E+00	9.4383E+00
46.0	1.0106E+00	9.9984E-01	108.0	1.0895E+00	1.0461E+00	168.0	1.9851E+00	8.7237E+00
48.0	1.0396E+00	1.0021E+00	110.0	1.2452E+00	1.0611E+00	170.0	6.9961E+00	4.0682E+00
50.0	1.0271E+00	1.0047E+00	112.0	9.6315E-01	1.0692E+00	172.0	4.4248E+01	2.1694E+01
52.0	9.8199E-01	1.0051E+00	114.0	6.5826E-01	1.0689E+00	174.0	1.3489E+02	9.9775E+01
54.0	9.5181E-01	1.0030E+00	116.0	8.5598E-01	1.0737E+00	176.0	2.7105E+02	2.4275E+02
56.0	9.7404E-01	1.0009E+00	118.0	1.2873E+00	1.0896E+00	178.0	4.0088E+02	3.9109E+02
58.0	1.0295E+00	1.0016E+00	120.0	1.2236E+00	1.1061E+00	180.0	4.5502E+02	4.5502E+02
60.0	1.0555E+00	1.0050E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=21.2

ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE
0.0	9.6809E-01	9.6809E-01	62.0	1.0486E+00	1.0064E+00	122.0	8.4420E-01	1.1166E+00
2.0	9.7394E-01	9.6994E-01	64.0	9.8925E-01	1.0079E+00	124.0	5.2105E-01	1.1277E+00
4.0	9.8084E-01	9.7522E-01	66.0	9.3244E-01	1.0058E+00	126.0	9.6838E-01	1.1424E+00
6.0	1.0106E+00	9.8308E-01	68.0	9.5300E-01	1.0030E+00	128.0	1.4876E+00	1.1591E+00
8.0	1.0278E+00	9.9230E-01	70.0	1.0243E+00	1.0040E+00	130.0	1.1259E+00	1.1840E+00
10.0	1.0333E+00	1.0000E+00	72.0	1.0742E+00	1.0086E+00	132.0	4.2170E-01	1.2228E+00
12.0	1.0231E+00	1.0052E+00	74.0	1.0108E+00	1.0118E+00	134.0	6.4262E-01	1.2527E+00
14.0	1.0014E+00	1.0066E+00	76.0	9.1759E-01	1.0101E+00	136.0	1.5432E+00	1.2572E+00
16.0	9.7948E-01	1.0045E+00	78.0	9.2271E-01	1.0055E+00	138.0	1.5545E+00	1.2879E+00
18.0	9.7018E-01	1.0008E+00	80.0	1.0330E+00	1.0075E+00	140.0	5.2999E-01	1.3907E+00
20.0	9.8011E-01	9.9788E-01	82.0	1.1016E+00	1.0136E+00	142.0	2.7203E-01	1.4770E+00
22.0	1.0037E+00	9.9729E-01	84.0	1.0189E+00	1.0181E+00	144.0	1.4488E+00	1.4490E+00
24.0	1.0251E+00	9.9915E-01	86.0	8.8567E-01	1.0160E+00	146.0	2.1360E+00	1.4581E+00
26.0	1.0200E+00	1.0019E+00	88.0	8.9680E-01	1.0121E+00	148.0	1.0325E+00	1.7115E+00
28.0	1.0095E+00	1.0036E+00	90.0	1.0559E+00	1.0148E+00	150.0	1.4068E-02	1.9804E+00
30.0	9.8383E-01	1.0030E+00	92.0	1.1346E+00	1.0235E+00	152.0	1.1676E+00	1.8738E+00
32.0	9.7293E-01	1.0009E+00	94.0	9.9365E-01	1.0283E+00	154.0	2.9661E+00	1.7611E+00
34.0	9.8723E-01	9.9930E-01	96.0	8.2332E-01	1.0249E+00	156.0	2.5077E+00	2.4328E+00
36.0	1.0149E+00	9.9969E-01	98.0	8.9387E-01	1.0222E+00	158.0	5.2101E-01	3.3737E+00
38.0	1.0295E+00	1.0018E+00	100.0	1.1251E+00	1.0296E+00	160.0	7.2785E-01	3.0762E+00
40.0	1.0145E+00	1.0037E+00	102.0	1.1559E+00	1.0411E+00	162.0	4.2683E+00	2.3778E+00
42.0	9.8120E-01	1.0037E+00	104.0	9.0038E-01	1.0442E+00	164.0	7.6012E+00	4.6843E+00
44.0	9.6243E-01	1.0017E+00	106.0	7.4347E-01	1.0403E+00	166.0	6.5480E+00	9.3711E+00
46.0	9.8087E-01	9.9983E-01	108.0	9.6674E-01	1.0435E+00	168.0	2.2005E+00	9.1095E+00
48.0	1.0221E+00	1.0003E+00	110.0	1.2428E+00	1.0575E+00	170.0	6.2862E+00	4.1163E+00
50.0	1.0437E+00	1.0030E+00	112.0	1.0958E+00	1.0693E+00	172.0	4.2587E+01	2.0483E+01
52.0	1.0187E+00	1.0053E+00	114.0	7.1347E-01	1.0709E+00	174.0	1.3390E+02	9.8391E+01
54.0	9.6942E-01	1.0049E+00	116.0	7.3242E-01	1.0731E+00	176.0	2.7331E+02	2.4429E+02
56.0	9.5052E-01	1.0025E+00	118.0	1.1812E+00	1.0863E+00	178.0	4.0744E+02	3.9734E+02
58.0	9.8829E-01	1.0010E+00	120.0	1.3195E+00	1.1040E+00	180.0	4.6360E+02	4.6360E+02
60.0	1.0435E+00	1.0028E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=21.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0082E+00	1.0082E+00	62.0	1.0540E+00	1.0042E+00	122.0	1.0092E+00	1.1158E+00
2.0	1.0047E+00	1.0068E+00	64.0	1.0336E+00	1.0075E+00	124.0	5.3204E-01	1.1275E+00
4.0	9.9737E-01	1.0034E+00	66.0	9.6242E-01	1.0077E+00	126.0	7.9305E-01	1.1420E+00
6.0	9.9283E-01	9.9974E-01	68.0	9.2856E-01	1.0047E+00	128.0	1.4251E+00	1.1578E+00
8.0	9.9567E-01	9.9760E-01	70.0	9.8359E-01	1.0031E+00	130.0	1.2997E+00	1.1797E+00
10.0	1.0045E+00	9.9786E-01	72.0	1.0642E+00	1.0060E+00	132.0	5.3379E-01	1.2180E+00
12.0	1.0126E+00	1.0000E+00	74.0	1.0603E+00	1.0108E+00	134.0	4.8764E-01	1.2544E+00
14.0	1.0125E+00	1.0025E+00	76.0	9.6434E-01	1.0120E+00	136.0	1.3823E+00	1.2616E+00
16.0	1.0019E+00	1.0036E+00	78.0	9.0105E-01	1.0086E+00	138.0	1.6773E+00	1.2801E+00
18.0	9.8710E-01	1.0026E+00	80.0	9.6778E-01	1.0065E+00	140.0	7.2845E-01	1.3748E+00
20.0	9.7980E-01	1.0003E+00	82.0	1.0836E+00	1.0106E+00	142.0	1.8694E-01	1.4792E+00
22.0	9.8821E-01	9.9835E-01	84.0	1.0794E+00	1.0171E+00	144.0	1.2143E+00	1.4667E+00
24.0	1.0087E+00	9.9820E-01	86.0	9.4195E-01	1.0183E+00	146.0	2.1645E+00	1.4480E+00
26.0	1.0260E+00	1.0001E+00	88.0	8.6303E-01	1.0141E+00	148.0	1.2784E+00	1.6719E+00
28.0	1.0248E+00	1.0026E+00	90.0	1.1264E+00	1.0130E+00	150.0	4.2456E-02	1.9791E+00
30.0	1.0030E+00	1.0038E+00	92.0	9.7446E-01	1.0201E+00	152.0	9.0879E-01	1.9209E+00
32.0	9.7692E-01	1.0006E+00	94.0	1.0783E+00	1.0280E+00	154.0	2.8472E+00	1.7512E+00
34.0	9.6896E-01	1.0006E+00	96.0	8.7534E-01	1.0278E+00	156.0	2.7238E+00	2.3382E+00
36.0	9.8841E-01	9.9907E-01	98.0	8.2643E-01	1.0233E+00	158.0	7.0659E-01	3.3568E+00
38.0	1.0193E+00	9.9973E-01	100.0	1.0354E+00	1.0264E+00	160.0	5.4815E-01	3.1979E+00
40.0	1.0325E+00	1.0020E+00	102.0	1.1881E+00	1.0380E+00	162.0	3.9341E+00	2.3777E+00
42.0	1.0128E+00	1.0039E+00	104.0	1.0129E+00	1.0454E+00	164.0	7.5706E+00	4.4258E+00
44.0	9.7777E-01	1.0035E+00	106.0	7.5654E-01	1.0429E+00	166.0	6.9161E+00	9.2740E+00
46.0	9.6399E-01	1.0014E+00	108.0	8.4809E-01	1.0436E+00	168.0	2.4523E+00	9.4859E+00
48.0	9.8978E-01	9.9998E-01	110.0	1.1814E+00	1.0536E+00	170.0	5.6269E+00	4.2089E+00
50.0	1.0309E+00	1.0011E+00	112.0	1.2009E+00	1.0680E+00	172.0	4.0928E+01	1.9305E+01
52.0	1.0413E+00	1.0040E+00	114.0	8.1929E-01	1.0728E+00	174.0	1.3283E+02	9.6961E+01
54.0	1.0036E+00	1.0057E+00	116.0	6.5583E-01	1.0735E+00	176.0	2.7551E+02	2.4577E+02
56.0	9.5568E-01	1.0045E+00	118.0	1.0399E+00	1.0836E+00	178.0	4.1402E+02	4.0360E+02
58.0	9.5412E-01	1.0019E+00	120.0	1.3562E+00	1.1013E+00	180.0	4.7227E+02	4.7227E+02
60.0	1.0068E+00	1.0013E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=21.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0400E+00	1.0400E+00	62.0	1.0295E+00	1.0022E+00	122.0	1.1651E+00	1.1145E+00			
2.0	1.0304E+00	1.0367E+00	64.0	1.0581E+00	1.0057E+00	124.0	6.0695E-01	1.1271E+00			
4.0	1.0069E+00	1.0278E+00	66.0	1.0098E+00	1.0083E+00	126.0	6.43E-01	1.1416E+00			
6.0	9.8212E-01	1.0162E+00	68.0	9.3909E-01	1.0069E+00	128.0	1.30E+00	1.1571E+00			
8.0	9.6897E-01	1.0053E+00	70.0	9.4037E-01	1.0039E+00	130.0	1.4238E+00	1.1761E+00			
10.0	9.7384E-01	9.9793E-01	72.0	1.0221E+00	1.0041E+00	132.0	6.9199E-01	1.2123E+00			
12.0	9.9297E-01	9.9542E-01	74.0	1.0785E+00	1.0086E+00	134.0	3.8365E-01	1.2543E+00			
14.0	1.0141E+00	9.9638E-01	76.0	1.0231E+00	1.0124E+00	136.0	1.1878E+00	1.2670E+00			
16.0	1.0235E+00	1.0003E+00	78.0	9.1969E-01	1.0111E+00	138.0	1.7427E+00	1.2755E+00			
18.0	1.0153E+00	1.0029E+00	80.0	9.1466E-01	1.0074E+00	140.0	9.4650E-01	1.3581E+00			
20.0	9.9623E-01	1.0032E+00	82.0	1.0295E+00	1.0082E+00	142.0	1.6108E-01	1.4767E+00			
22.0	9.8206E-01	1.0015E+00	84.0	1.1046E+00	1.0146E+00	144.0	9.7403E-01	1.4849E+00			
24.0	9.8476E-01	9.9946E-01	86.0	1.0155E+00	1.0192E+00	146.0	2.1340E+00	1.4447E+00			
26.0	1.0026E+00	9.9891E-01	88.0	8.7619E-01	1.0169E+00	148.0	1.5170E+00	1.6324E+00			
28.0	1.0200E+00	1.0003E+00	90.0	9.0037E-01	1.0131E+00	150.0	1.2159E-01	1.9687E+00			
30.0	1.0198E+00	1.0024E+00	92.0	1.0728E+00	1.0168E+00	152.0	6.6921E-01	1.9672E+00			
32.0	9.9939E-01	1.0034E+00	94.0	1.1323E+00	1.0260E+00	154.0	2.6870E+00	1.7538E+00			
34.0	9.7584E-01	1.0023E+00	96.0	9.6073E-01	1.0297E+00	156.0	2.9113E+00	2.2459E+00			
36.0	9.7245E-01	1.0002E+00	98.0	8.0749E-01	1.0256E+00	158.0	9.18E-01	3.3234E+00			
38.0	9.9618E-01	9.9909E-01	100.0	9.3335E-01	1.0247E+00	160.0	4.0433E-01	3.3143E+00			
40.0	1.0270E+00	1.0002E+00	102.0	1.1647E+00	1.0343E+00	162.0	3.5970E+00	2.3997E+00			
42.0	1.0239E+00	1.0027E+00	104.0	1.1153E+00	1.0450E+00	164.0	7.5030E+00	4.1752E+00			
44.0	1.0065E+00	1.0042E+00	106.0	8.2408E-01	1.0456E+00	166.0	7.2643E+00	9.1481E+00			
46.0	9.7012E-01	1.0034E+00	108.0	7.6378E-01	1.0427E+00	168.0	2.7375E+00	9.8485E+00			
48.0	9.6389E-01	1.0011E+00	110.0	1.0762E+00	1.0501E+00	170.0	5.0250E+00	4.3442E+00			
50.0	9.9806E-01	1.0002E+00	112.0	1.2568E+00	1.0654E+00	172.0	3.9274E-01	1.8162E+01			
52.0	1.0371E+00	1.0019E+00	114.0	9.5373E-01	1.0739E+00	174.0	1.3170E+02	9.5485E+01			
54.0	1.0341E+00	1.0049E+00	116.0	6.3955E-01	1.0747E+00	176.0	2.7764E+02	2.4718E+02			
56.0	9.8654E-01	1.0057E+00	118.0	8.8864E-01	1.0817E+00	178.0	4.2064E+02	4.0888E+02			
58.0	9.4714E-01	1.0037E+00	120.0	1.3280E+00	1.0944E+00	180.0	4.8101E+02	4.8101E+02			
60.0	9.6722E-01	1.0014E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=21.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0330E+00	1.0330E+00	62.0	9.8847E-01	1.0015E+00	122.0	1.2879E+00	1.1127E+00	180.0	4.8984E+02	4.8984E+02
2.0	1.0265E+00	1.0309E+00	64.0	1.0497E+00	1.0036E+00	124.0	7.3130E-01	1.1264E+00			
4.0	1.0097E+00	1.0251E+00	66.0	1.0491E+00	1.0074E+00	126.0	5.4073E-01	1.1412E+00			
6.0	9.8913E-01	1.0168E+00	68.0	9.7781E-01	1.0085E+00	128.0	1.1401E+00	1.1569E+00			
8.0	9.7340E-01	1.0078E+00	70.0	9.2515E-01	1.0059E+00	130.0	1.5015E+00	1.1735E+00			
10.0	9.7015E-01	1.0002E+00	72.0	9.6835E-01	1.0036E+00	132.0	8.7858E-01	1.2063E+00			
12.0	9.8221E-01	9.9577E-01	74.0	1.0580E+00	1.0061E+00	134.0	3.4026E-01	1.2524E+00			
14.0	1.0044E+00	9.9522E-01	76.0	1.0678E+00	1.0112E+00	136.0	9.7758E-01	1.2726E+00			
16.0	1.0241E+00	9.9780E-01	78.0	9.7000E-01	1.0128E+00	138.0	1.7459E+00	1.2741E+00			
18.0	1.0287E+00	1.0015E+00	80.0	8.9544E-01	1.0095E+00	140.0	1.6777E+00	1.3417E+00			
20.0	1.0142E+00	1.0039E+00	82.0	9.6238E-01	1.0073E+00	142.0	1.9541E-01	1.4696E+00			
22.0	9.9013E-01	1.0038E+00	84.0	1.0860E+00	1.0116E+00	144.0	7.4214E-01	1.5023E+00			
24.0	9.7402E-01	1.0017E+00	86.0	1.0788E+00	1.0182E+00	146.0	2.0486E+00	1.4479E+00			
26.0	9.7868E-01	9.9928E-01	88.0	9.3078E-01	1.0192E+00	148.0	1.7338E+00	1.5948E+00			
28.0	1.0009E+00	9.9858E-01	90.0	8.5943E-01	1.0149E+00	150.0	2.4749E-01	1.9495E+00			
30.0	1.0222E+00	1.0000E+00	92.0	9.9269E-01	1.0147E+00	152.0	4.5715E-01	2.0105E+00			
32.0	1.0229E+00	1.0022E+00	94.0	1.1392E+00	1.0228E+00	154.0	2.4935E+00	1.7682E+00			
34.0	1.0012E+00	1.0032E+00	96.0	1.0525E+00	1.0301E+00	156.0	3.0655E+00	2.1583E+00			
36.0	9.7711E-01	1.0022E+00	98.0	8.4152E-01	1.0285E+00	158.0	1.1519E+00	3.2748E+00			
38.0	9.7582E-01	1.0002E+00	100.0	8.4782E-01	1.0248E+00	160.0	2.9816E-01	3.4249E+00			
40.0	1.0016E+00	9.9919E-01	102.0	1.0978E+00	1.0307E+00	162.0	3.2407E+00	2.4428E+00			
42.0	1.0298E+00	1.0009E+00	104.0	1.1812E+00	1.0429E+00	164.0	7.3915E+00	3.9353E+00			
44.0	1.0289E+00	1.0033E+00	106.0	9.2831E-01	1.0477E+00	166.0	7.6014E+00	8.9945E+00			
46.0	9.9508E-01	1.0043E+00	108.0	7.2978E-01	1.0444E+00	168.0	3.0535E+00	1.0196E+01			
48.0	9.6183E-01	1.0029E+00	110.0	9.5069E-01	1.0477E+00	170.0	4.4755E+00	4.5204E+00			
50.0	9.6748E-01	1.0007E+00	112.0	1.2525E+00	1.0621E+00	172.0	3.7630E+01	1.7055E+01			
52.0	1.0103E+00	1.0004E+00	114.0	1.0895E+00	1.0740E+00	174.0	1.3051E+02	9.3966E+01			
54.0	1.0434E+00	1.0028E+00	116.0	6.8543E-01	1.0764E+00	176.0	2.7971E+02	2.4851E+02			
56.0	1.0244E+00	1.0054E+00	118.0	7.5399E-01	1.0807E+00	178.0	4.2727E+02	4.1618E+02			
58.0	9.7035E-01	1.0054E+00	120.0	1.2406E+00	1.0955E+00	180.0					
60.0	9.4638E-01	1.0029E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=22.0

ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE
0.0	9.9521E-01	9.9521E-01	62.0	9.5322E-01	1.0023E+00
2.0	9.9305E-01	9.9636E-01	64.0	1.0134E+00	1.0021E+00
4.0	1.0041E+00	9.9916E-01	66.0	1.0601E+00	1.0053E+00
6.0	1.0075E+00	1.0021E+00	68.0	1.0248E+00	1.0086E+00
8.0	1.0041E+00	1.0036E+00	70.0	9.4497E-01	1.0080E+00
10.0	9.9529E-01	1.0079E+00	72.0	9.2927E-01	1.0048E+00
12.0	9.8837E-01	1.0007E+00	74.0	1.0097E+00	1.0044E+00
14.0	9.9077E-01	9.9852E-01	76.0	1.0795E+00	1.0087E+00
16.0	1.0029E+00	9.9737E-01	78.0	1.0301E+00	1.0130E+00
18.0	1.0163E+00	9.9941E-01	80.0	9.1892E-01	1.0119E+00
20.0	1.0192E+00	1.0018E+00	82.0	9.0982E-01	1.0082E+00
22.0	1.0066E+00	1.0034E+00	84.0	1.0321E+00	1.0091E+00
24.0	9.8614E-01	1.0030E+00	86.0	1.1084E+00	1.0159E+00
26.0	9.7432E-01	1.0009E+00	88.0	1.0061E+00	1.0203E+00
28.0	9.8326E-01	9.9888E-01	90.0	8.6488E-01	1.0175E+00
30.0	1.0082E+00	9.9864E-01	92.0	9.1321E-01	1.0143E+00
32.0	1.0283E+00	1.0004E+00	94.0	1.0975E+00	1.0194E+00
34.0	1.0242E+00	1.0077E+00	96.0	1.1221E+00	1.0287E+00
36.0	9.9730E-01	1.0035E+00	98.0	9.1708E-01	1.0309E+00
38.0	9.7237E-01	1.0022E+00	100.0	8.0225E-01	1.0265E+00
40.0	9.7515E-01	1.0002E+00	102.0	9.9243E-01	1.0281E+00
42.0	1.0049E+00	9.9972E-01	104.0	1.1943E+00	1.0397E+00
44.0	1.0311E+00	1.0015E+00	106.0	1.0429E+00	1.0485E+00
46.0	1.0228E+00	1.0037E+00	108.0	7.5395E-01	1.0469E+00
48.0	9.8498E-01	1.0041E+00	110.0	8.3291E-01	1.0466E+00
50.0	9.5879E-01	1.0023E+00	112.0	1.1899E+00	1.0584E+00
52.0	9.7818E-01	1.0004E+00	114.0	1.1997E+00	1.0729E+00
54.0	1.0260E+00	1.0011E+00	116.0	7.8387E-01	1.0779E+00
56.0	1.0461E+00	1.0040E+00	118.0	6.5944E-01	1.0806E+00
58.0	1.0088E+00	1.0060E+00	120.0	1.1095E+00	1.0929E+00
60.0	9.5463E-01	1.0049E+00			

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

$KA=22.2$

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

$KA=22.4$

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=22.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0052E+00	1.0052E+00	62.0	1.0056E+00	1.0065E+00	122.0	1.2033E+00	1.1033E+00
2.0	1.0024E+00	1.0041E+00	64.0	9.4595E-01	1.0051E+00	124.0	1.3245E+00	1.1204E+00
4.0	9.9679E-01	1.0013E+00	66.0	9.5723E-01	1.0025E+00	126.0	7.2836E-01	1.1369E+00
6.0	9.9457E-01	9.9859E-01	68.0	1.0296E+00	1.0031E+00	128.0	5.2823E-01	1.1562E+00
8.0	9.9915E-01	9.9754E-01	70.0	1.0638E+00	1.0071E+00	130.0	1.2017E+00	1.1719E+00
10.0	1.0075E+00	9.9865E-01	72.0	1.0012E+00	1.0096E+00	132.0	1.5037E+00	1.1877E+00
12.0	1.0124E+00	1.0010E+00	74.0	9.2359E-01	1.0077E+00	134.0	7.4909E-01	1.2293E+00
14.0	1.0077E+00	1.0029E+00	76.0	9.4973E-01	1.0048E+00	136.0	3.4708E-01	1.2828E+00
16.0	9.9491E-01	1.0030E+00	78.0	1.0528E+00	1.0068E+00	138.0	1.2181E+00	1.2930E+00
18.0	9.8352E-01	1.0013E+00	80.0	1.0770E+00	1.0123E+00	140.0	1.7719E+00	1.2985E+00
20.0	9.8460E-01	9.9913E-01	82.0	9.6928E-01	1.0143E+00	142.0	8.1840E-01	1.4069E+00
22.0	1.0003E+00	9.9821E-01	84.0	8.8690E-01	1.0109E+00	144.0	1.5379E-01	1.5387E+00
24.0	1.0191E+00	9.9933E-01	86.0	9.7109E-01	1.0092E+00	146.0	1.2942E+00	1.5104E+00
26.0	1.0243E+00	1.0016E+00	88.0	1.1029E+00	1.0146E+00	148.0	2.2419E+00	1.4929E+00
28.0	1.0086E+00	1.0032E+00	90.0	1.0607E+00	1.0212E+00	150.0	1.0768E+00	1.8062E+00
30.0	9.8368E-01	1.0028E+00	92.0	8.8922E-01	1.0206E+00	152.0	7.4606E-03	2.1203E+00
32.0	9.7220E-01	1.0098E+00	94.0	8.6943E-01	1.0164E+00	154.0	1.4981E+00	1.9196E+00
34.0	9.8672E-01	9.9922E-01	96.0	1.0590E+00	1.0196E+00	156.0	3.2835E+00	1.8945E+00
36.0	1.0150E+00	9.9959E-01	98.0	1.1464E+00	1.0295E+00	158.0	2.1827E+00	2.9553E+00
38.0	1.0285E+00	1.0016E+00	100.0	9.5325E-01	1.0336E+00	160.0	2.6213E-01	3.7582E+00
40.0	1.0113E+00	1.0033E+00	102.0	7.8890E-01	1.0296E+00	162.0	1.9409E+00	2.7933E+00
42.0	9.7997E-01	1.0029E+00	104.0	9.6210E-01	1.0306E+00	164.0	6.6554E+00	3.1285E+00
44.0	9.6983E-01	1.0010E+00	106.0	1.1983E+00	1.0422E+00	166.0	8.6304E+00	8.1411E+00
46.0	9.9591E-01	9.9972E-01	108.0	1.0553E+00	1.0517E+00	168.0	4.5622E+00	1.1379E+01
48.0	1.0307E+00	1.0012E+00	110.0	7.4276E-01	1.0507E+00	170.0	2.8256E+00	5.5921E+00
50.0	1.0313E+00	1.0037E+00	112.0	8.3497E-01	1.0515E+00	172.0	3.1197E+01	1.3039E+01
52.0	9.9125E-01	1.0047E+00	114.0	1.2148E+00	1.0643E+00	174.0	1.2512E+02	8.7507E+01
54.0	9.5613E-01	1.0030E+00	116.0	1.1782E+00	1.0785E+00	176.0	2.8732E+02	2.5317E+02
56.0	9.7249E-01	1.0010E+00	118.0	7.2574E-01	1.0836E+00	178.0	4.5402E+02	4.4151E+02
58.0	1.0252E+00	1.0015E+00	120.0	6.8994E-01	1.0889E+00	180.0	5.2594E+02	5.2594E+02
60.0	1.0468E+00	1.0045E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=22.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0354E+00	1.0354E+00	62.0	1.0345E+00	1.0058E+00	122.0	1.0634E+00	1.1013E+00
2.0	1.0259E+00	1.0321E+00	64.0	9.7682E-01	1.0065E+00	124.0	1.3824E+00	1.1184E+00
4.0	1.0034E+00	1.0235E+00	66.0	9.3888E-01	1.0041E+00	126.0	8.8839E-01	1.1352E+00
6.0	9.8122E-01	1.0125E+00	68.0	9.8493E-01	1.0025E+00	128.0	4.7643E-01	1.1552E+00
8.0	9.7222E-01	1.0028E+00	70.0	1.0566E+00	1.0049E+00	130.0	1.0236E+00	1.1727E+00
10.0	9.0091E-01	9.9713E-01	72.0	1.0461E+00	1.0090E+00	132.0	1.5453E+00	1.1859E+00
12.0	1.0006E+00	9.9614E-01	74.0	9.5661E-01	1.0095E+00	134.0	9.4182E-01	1.2220E+00
14.0	1.0173E+00	9.9846E-01	76.0	9.1770E-01	1.0063E+00	136.0	3.1188E-01	1.2801E+00
16.0	1.0191E+00	1.0015E+00	78.0	9.9893E-01	1.0054E+00	138.0	1.0091E+00	1.3003E+00
18.0	1.0055E+00	1.0029E+00	80.0	1.0845E+00	1.0099E+00	140.0	1.7966E+00	1.2961E+00
20.0	9.8859E-01	1.0021E+00	82.0	1.0317E+00	1.0146E+00	142.0	1.0391E+00	1.3875E+00
22.0	9.8382E-01	1.002E+00	84.0	9.0697E-01	1.0133E+00	144.0	1.3323E-01	1.5359E+00
24.0	9.9596E-01	9.9902E-01	86.0	9.1095E-01	1.0096E+00	146.0	1.0574E+00	1.5321E+00
26.0	1.0138E+00	9.9973E-01	88.0	1.0557E+00	1.0119E+00	148.0	2.2451E+00	1.4842E+00
28.0	1.0191E+00	1.0016E+00	90.0	1.1084E+00	1.0194E+00	150.0	1.3195E+00	1.7612E+00
30.0	1.0042E+00	1.0028E+00	92.0	9.5958E-01	1.0224E+00	152.0	1.2043E-02	2.1260E+00
32.0	9.8183E-01	1.0022E+00	94.0	8.4262E-01	1.0184E+00	154.0	1.2330E+00	1.9722E+00
34.0	9.7516E-01	1.0004E+00	96.0	9.7302E-01	1.0178E+00	156.0	3.2315E+00	1.8574E+00
36.0	9.9447E-01	9.9919E-01	98.0	1.1490E+00	1.0264E+00	158.0	2.4350E+00	2.8536E+00
38.0	1.0227E+00	1.0001E+00	100.0	1.0491E+00	1.0341E+00	160.0	3.4735E-01	3.8057E+00
40.0	1.0295E+00	1.0023E+00	102.0	8.1373E-01	1.0322E+00	162.0	1.6500E+00	2.9154E+00
42.0	1.0044E+00	1.0036E+00	104.0	8.6389E-01	1.0299E+00	164.0	6.3971E+00	2.9747E+00
44.0	9.7243E-01	1.0037E+00	106.0	1.1471E+00	1.0387E+00	166.0	8.8910E+00	7.8784E+00
46.0	9.7071E-01	1.0007E+00	108.0	1.1516E+00	1.0508E+00	168.0	4.9849E+00	1.1614E+01
48.0	1.0044E+00	1.0001E+00	110.0	8.1978E-01	1.0529E+00	170.0	2.5493E+00	5.9401E+00
50.0	1.0349E+00	1.0020E+00	112.0	7.4508E-01	1.0515E+00	172.0	2.9638E+01	1.2145E+01
52.0	1.0217E+00	1.0043E+00	114.0	1.1142E+00	1.0611E+00	174.0	1.2362E+02	8.5808E+01
54.0	9.7594E-01	1.0044E+00	116.0	1.2595E+00	1.0768E+00	176.0	2.8905E+02	2.5415E+02
56.0	9.5457E-01	1.0022E+00	118.0	8.4798E-01	1.0845E+00	178.0	4.6076E+02	4.4788E+02
58.0	9.9061E-01	1.0009E+00	120.0	6.1840E-01	1.0889E+00	180.0	5.3516E+02	5.3516E+02
60.0	1.0423E+00	1.0026E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=23.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0311E+00	1.0311E+00	62.0	1.0510E+00	1.0041E+00	122.0	9.1109E-01	1.0998E+00
2.0	1.0242E+00	1.0289E+00	64.0	1.0172E+00	1.0068E+00	124.0	1.3820E+00	1.1164E+00
4.0	1.0067E+00	1.0227E+00	66.0	9.5074E-01	1.0060E+00	126.0	1.0598E+00	1.1333E+00
6.0	9.8652E-01	1.0142E+00	68.0	9.4696E-01	1.0032E+00	128.0	4.8710E-01	1.1537E+00
8.0	9.7329E-01	1.0053E+00	70.0	1.0202E+00	1.0033E+00	130.0	8.4140E-01	1.1734E+00
10.0	9.7437E-01	9.9865E-01	72.0	1.0663E+00	1.0072E+00	132.0	1.5245E+00	1.1854E+00
12.0	9.9013E-01	9.9556E-01	74.0	1.0089E+00	1.0102E+00	134.0	1.1356E+00	1.2151E+00
14.0	1.0121E+00	9.9632E-01	76.0	9.2121E-01	1.0083E+00	136.0	3.3829E-01	1.2753E+00
16.0	1.0258E+00	9.9948E-01	78.0	9.4494E-01	1.0054E+00	138.0	7.9953E-01	1.3069E+00
18.0	1.0212E+00	1.0026E+00	80.0	1.0547E+00	1.0075E+00	140.0	1.7618E+00	1.2973E+00
20.0	1.0011E+00	1.0037E+00	82.0	1.0778E+00	1.0132E+00	142.0	1.2569E+00	1.3690E+00
22.0	9.6096E-01	1.0024E+00	84.0	9.6028E-01	1.0150E+00	144.0	1.6947E-01	1.5280E+00
24.0	9.7729E-01	1.0000E+00	86.0	8.8266E-01	1.0114E+00	146.0	8.2320E-01	1.5533E+00
26.0	9.9366E-01	9.9871E-01	88.0	8.8655E-01	1.0103E+00	148.0	2.1958E+00	1.4828E+00
28.0	1.0156E+00	9.9949E-01	90.0	1.1142E+00	1.0167E+00	150.0	1.5559E+00	1.7161E+00
30.0	1.0220E+00	1.0015E+00	92.0	1.0385E+00	1.0228E+00	152.0	6.4444E-02	2.1219E+00
32.0	1.0056E+00	1.0027E+00	94.0	8.6306E-01	1.0209E+00	154.0	9.7752E-01	2.0268E+00
34.0	9.8246E-01	1.0021E+00	96.0	8.9313E-01	1.0176E+00	156.0	3.1395E+00	1.8336E+00
36.0	9.7808E-01	1.0003E+00	98.0	1.1034E+00	1.0231E+00	158.0	2.6735E+00	2.7475E+00
38.0	9.9984E-01	9.9952E-01	100.0	1.1248E+00	1.0300E+00	160.0	4.6860E-01	3.6364E+00
40.0	1.0254E+00	1.0007E+00	102.0	8.8351E-01	1.0346E+00	162.0	1.3812E+00	3.0466E+00
42.0	1.0242E+00	1.0028E+00	104.0	7.9758E-01	1.0307E+00	164.0	6.1154E+00	2.8430E+00
44.0	9.9312E-01	1.0036E+00	106.0	1.0559E+00	1.0356E+00	166.0	9.0595E+00	7.6008E+00
46.0	9.6559E-01	1.0032E+00	108.0	1.2057E+00	1.0487E+00	168.0	5.4194E+00	1.1820E+01
48.0	9.7623E-01	1.0003E+00	110.0	9.2993E-01	1.0546E+00	170.0	2.3269E+00	6.3151E+00
50.0	1.0167E+00	1.0005E+00	112.0	7.0467E-01	1.0527E+00	172.0	2.8106E+01	1.1299E+01
52.0	1.0381E+00	1.0028E+00	114.0	9.8721E-01	1.0586E+00	174.0	1.2208E+02	8.4076E+01
54.0	1.0096E+00	1.0047E+00	116.0	1.2855E+00	1.0742E+00	176.0	2.9071E+02	2.5506E+02
56.0	9.6340E-01	1.0039E+00	118.0	9.8967E-01	1.0849E+00	178.0	4.6751E+02	4.5426E+02
58.0	9.6153E-01	1.0016E+00	120.0	6.0581E-01	1.0894E+00	180.0	5.4447E+02	5.4447E+02
60.0	1.0130E+00	1.0014E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=23.2

NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION	
E-PLANE		E-PLANE		E-PLANE		E-PLANE	
H-PLANE		H-PLANE		H-PLANE		H-PLANE	
ANGLE		ANGLE		ANGLE		ANGLE	
0.0	9.9767E-01	62.0	1.0340E+00	122.0	7.6629E-01	1.0987E+00	
2.0	9.9994E-01	64.0	1.0461E+00	124.0	1.3212E+00	1.1145E+00	
4.0	1.0043E+00	66.0	9.8635E-01	126.0	1.2107E+00	1.1313E+00	
6.0	1.0056E+00	68.0	9.3531E-01	128.0	1.0049E+00	1.1517E+00	
8.0	1.0006E+00	70.0	9.7368E-01	130.0	1.0029E+00	1.1738E+00	
10.0	9.9258E-01	72.0	1.0534E+00	132.0	1.4443E+00	1.1860E+00	
12.0	9.8922E-01	74.0	1.0514E+00	134.0	1.3112E+00	1.2092E+00	
14.0	9.9587E-01	76.0	9.5803E-01	136.0	4.2312E-01	1.2686E+00	
16.0	1.0390E+00	78.0	9.1410E-01	138.0	6.0946E-01	1.3121E+00	
18.0	1.0177E+00	80.0	1.0008E+00	140.0	1.6707E+00	1.3016E+00	
20.0	1.0124E+00	82.0	1.0892E+00	142.0	1.4570E+00	1.3524E+00	
22.0	9.9486E-01	84.0	1.0251E+00	144.0	2.5959E-01	1.5153E+00	
24.0	9.7919E-01	86.0	8.9629E-01	146.0	6.0823E-01	1.5728E+00	
26.0	9.8069E-01	88.0	9.2058E-01	148.0	2.0965E+00	1.4885E+00	
28.0	1.0008E+00	90.0	1.0768E+00	150.0	1.7758E+00	1.6727E+00	
30.0	1.0224E+00	92.0	1.0991E+00	152.0	1.6210E-01	2.1080E+00	
32.0	1.0239E+00	94.0	9.2302E-01	154.0	7.3926E-01	2.0811E+00	
34.0	1.0017E+00	96.0	8.4357E-01	156.0	3.0057E+00	1.8231E+00	
36.0	9.7729E-01	98.0	1.0240E+00	158.0	2.8929E+00	2.6395E+00	
38.0	9.7719E-01	100.0	1.1593E+00	160.0	6.1770E-01	3.8499E+00	
40.0	1.0034E+00	102.0	9.7885E-01	162.0	1.1376E+00	3.1843E+00	
42.0	1.0270E+00	104.0	7.7967E-01	164.0	5.8130E+00	2.7344E+00	
44.0	1.0183E+00	106.0	9.4762E-01	166.0	9.1946E+00	7.3109E+00	
46.0	9.8387E-01	108.0	1.2058E+00	168.0	5.8623E+00	1.1986E+01	
48.0	9.6467E-01	110.0	1.0485E+00	170.0	2.1575E+00	6.7145E+00	
50.0	9.8848E-01	112.0	7.2153E-01	172.0	2.6600E+01	1.0500E+01	
52.0	1.0301E+00	114.0	8.5950E-01	174.0	1.2048E+02	8.2319E+01	
54.0	1.0357E+00	116.0	1.2524E+00	176.0	2.9231E+02	2.5591E+02	
56.0	9.9232E-01	118.0	1.1257E+00	178.0	4.7428E+02	4.6064E+02	
58.0	9.5392E-01	120.0	6.5351E-01	180.0	5.5385E+02	5.5385E+02	
60.0	9.7584E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=23.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.6832E-01	9.6832E-01	62.0	9.9800E-01	1.0015E+00	122.0	6.5483E-01	1.0981E+00			
2.0	9.7735E-01	9.7146E-01	64.0	1.0491E+00	1.0038E+00	124.0	1.2098E+00	1.1128E+00			
4.0	9.9900E-01	9.7973E-01	66.0	1.0273E+00	1.0069E+00	126.0	1.3293E+00	1.1294E+00			
6.0	1.0200E+00	9.9014E-01	68.0	9.5548E-01	1.0066E+00	128.0	6.7958E-01	1.1494E+00			
8.0	1.0273E+00	9.9913E-01	70.0	9.4012E-01	1.0038E+00	130.0	5.4757E-01	1.1735E+00			
10.0	1.0169E+00	1.0041E+00	72.0	1.0143E+00	1.0035E+00	132.0	1.3140E+00	1.1874E+00			
12.0	9.9720E-01	1.0045E+00	74.0	1.0697E+00	1.0075E+00	134.0	1.4513E+00	1.2046E+00			
14.0	9.8316E-01	1.0020E+00	76.0	1.0107E+00	1.0107E+00	136.0	5.5783E-01	1.2606E+00			
16.0	9.8493E-01	9.9930E-01	78.0	9.1873E-01	1.0089E+00	138.0	4.5332E-01	1.3152E+00			
18.0	9.9984E-01	9.9850E-01	80.0	9.4540E-01	1.0060E+00	140.0	1.5305E+00	1.3085E+00			
20.0	1.0141E+00	9.9978E-01	82.0	1.0618E+00	1.0085E+00	142.0	1.6256E+00	1.3387E+00			
22.0	1.0140E+00	1.0017E+00	84.0	1.0758E+00	1.0144E+00	144.0	3.9734E-01	1.4986E+00			
24.0	9.9915E-01	1.0024E+00	86.0	9.4507E-01	1.0157E+00	146.0	4.1785E-01	1.5887E+00			
26.0	9.8405E-01	1.0013E+00	88.0	8.8136E-01	1.0118E+00	148.0	1.9523E+00	1.5006E+00			
28.0	9.8556E-01	9.9966E-01	90.0	1.0101E+00	1.0118E+00	150.0	1.9699E+00	1.6326E+00			
30.0	1.0047E+00	9.9920E-01	92.0	1.1218E+00	1.0192E+00	152.0	3.0081E-01	2.0849E+00			
32.0	1.0225E+00	1.0006E+00	94.0	1.0026E+00	1.0243E+00	154.0	5.2526E-01	2.1331E+00			
34.0	1.0184E+00	1.0025E+00	96.0	8.3916E-01	1.0211E+00	156.0	2.8398E+00	1.8258E+00			
36.0	9.9297E-01	1.0030E+00	98.0	9.3494E-01	1.0194E+00	158.0	3.0881E+00	2.5319E+00			
38.0	9.7198E-01	1.0016E+00	100.0	1.1440E+00	1.0275E+00	160.0	7.9680E-01	3.8400E+00			
40.0	9.8032E-01	9.9987E-01	102.0	1.0733E+00	1.0363E+00	162.0	9.2193E-01	3.3250E+00			
42.0	1.0118E+00	9.9995E-01	104.0	8.1411E-01	1.0351E+00	164.0	5.4930E+00	2.6496E+00			
44.0	1.0308E+00	1.0018E+00	106.0	8.4943E-01	1.0330E+00	166.0	9.2952E+00	7.0113E+00			
46.0	1.0123E+00	1.0035E+00	108.0	1.1532E+00	1.0422E+00	168.0	6.3106E+00	1.2143E+01			
48.0	9.7583E-01	1.0031E+00	110.0	1.1493E+00	1.0545E+00	170.0	2.0401E+00	7.1356E+00			
50.0	9.6759E-01	1.0012E+00	112.0	7.9131E-01	1.0565E+00	172.0	2.5125E+01	9.7505E+00			
52.0	1.0027E+00	1.0004E+00	114.0	7.5652E-01	1.0566E+00	174.0	1.1893E+02	8.0537E+01			
54.0	1.0383E+00	1.0023E+00	116.0	1.1673E+00	1.0682E+00	176.0	2.9382E+02	2.5688E+02			
56.0	1.0237E+00	1.0047E+00	118.0	1.2322E+00	1.0834E+00	178.0	4.8107E+02	4.6704E+02			
58.0	9.7178E-01	1.0047E+00	120.0	7.5269E-01	1.0907E+00	180.0	5.6332E+02	5.6332E+02			
60.0	9.5216E-01	1.0025E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=23.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.7132E-01	9.7132E-01	62.0	9.6365E-01	1.0018E+00	122.0	5.9340E-01	1.0979E+00
2.0	9.7809E-01	9.7352E-01	64.0	1.0022E+00	1.0022E+00	124.0	1.0644E+00	1.1113E+00
4.0	9.9556E-01	9.7959E-01	66.0	1.0522E+00	1.0055E+00	126.0	1.3958E+00	1.1277E+00
6.0	1.0157E+00	9.8066E-01	68.0	9.9628E-01	1.0075E+00	128.0	8.3512E-01	1.1469E+00
8.0	1.0277E+00	9.9684E-01	70.0	9.3509E-01	1.0056E+00	130.0	4.6932E-01	1.1724E+00
10.0	1.0244E+00	1.0039E+00	72.0	9.6788E-01	1.0033E+00	132.0	1.1480E+00	1.1892E+00
12.0	1.0069E+00	1.0054E+00	74.0	1.0535E+00	1.0054E+00	134.0	1.5472E+00	1.2017E+00
14.0	9.8597E-01	1.0041E+00	76.0	1.0551E+00	1.0099E+00	136.0	7.2914E-01	1.2518E+00
16.0	9.7588E-01	1.0009E+00	78.0	9.5571E-01	1.0107E+00	138.0	3.4355E-01	1.3158E+00
18.0	9.8431E-01	9.9827E-01	80.0	9.1136E-01	1.0073E+00	140.0	1.3521E+00	1.3170E+00
20.0	1.0053E+00	9.9791E-01	82.0	1.0075E+00	1.0069E+00	142.0	1.7515E+00	1.3285E+00
22.0	1.0217E+00	9.9973E-01	84.0	1.0931E+00	1.0122E+00	144.0	5.7370E-01	1.4789E+00
24.0	1.0191E+00	1.0020E+00	86.0	1.0104E+00	1.0164E+00	146.0	2.6785E-01	1.6004E+00
26.0	9.9939E-01	1.0027E+00	88.0	8.8270E-01	1.0140E+00	148.0	1.7702E+00	1.5181E+00
28.0	9.8129E-01	1.0016E+00	90.0	9.3808E-01	1.0113E+00	150.0	2.1300E+00	1.5974E+00
30.0	9.8327E-01	9.9984E-01	92.0	1.1000E+00	1.0163E+00	152.0	4.7497E-01	2.0535E+00
32.0	1.0040E+00	9.9943E-01	94.0	1.0763E+00	1.0238E+00	154.0	3.4173E-01	2.1803E+00
34.0	1.0212E+00	1.0008E+00	96.0	8.8060E-01	1.0236E+00	156.0	2.6420E+00	1.8411E+00
36.0	1.0141E+00	1.0025E+00	98.0	8.6295E-01	1.0197E+00	158.0	3.2519E+00	2.4271E+00
38.0	9.8791E-01	1.0027E+00	100.0	1.0844E+00	1.0244E+00	160.0	1.0004E+00	3.8246E+00
40.0	9.7245E-01	1.0011E+00	102.0	1.1422E+00	1.0349E+00	162.0	7.3653E-01	3.4689E+00
42.0	9.8911E-01	9.9973E-01	104.0	8.9118E-01	1.0374E+00	164.0	5.1588E+00	2.5889E+00
44.0	1.0219E+00	1.0004E+00	106.0	7.8516E-01	1.0337E+00	166.0	9.3608E+00	6.7048E+00
46.0	1.0311E+00	1.0025E+00	108.0	1.0610E+00	1.0393E+00	168.0	6.7611E+00	1.2258E+01
48.0	1.0012E+00	1.0038E+00	110.0	1.2103E+00	1.0527E+00	170.0	1.9736E+00	7.5756E+00
50.0	9.6664E-01	1.0027E+00	112.0	8.9844E-01	1.0582E+00	172.0	2.3682E+01	9.0511E+00
52.0	9.7339E-01	1.0008E+00	114.0	6.9816E-01	1.0572E+00	174.0	1.1713E+02	7.8733E+01
54.0	1.0169E+00	1.0009E+00	116.0	1.0470E+00	1.0856E+00	176.0	2.9527E+02	2.5737E+02
56.0	1.0396E+00	1.0034E+00	118.0	1.2908E+00	1.0815E+00	178.0	4.8788E+02	4.7345E+02
58.0	1.0048E+00	1.0052E+00	120.0	8.8601E-01	1.0911E+00	180.0	5.7267E+02	5.7267E+02
60.0	9.5546E-01	1.0041E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=23.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0027E+00	1.0027E+00	62.0	9.4928E-01	1.0032E+00	122.0	5.9073E-01	1.0979E+00
2.0	1.0005E+00	1.0018E+00	64.0	9.8774E-01	1.0017E+00	124.0	9.0663E-01	1.1101E+00
4.0	9.9657E-01	9.9962E-01	66.0	1.0482E+00	1.0037E+00	126.0	1.4049E+00	1.1262E+00
6.0	9.9651E-01	9.9785E-01	68.0	1.0363E+00	1.0071E+00	128.0	1.0055E+00	1.1444E+00
8.0	1.0022E+00	9.9777E-01	70.0	9.5990E-01	1.0072E+00	130.0	4.5010E-01	1.1706E+00
10.0	1.0094E+00	9.9948E-01	72.0	9.3547E-01	1.0044E+00	132.0	9.6464E-01	1.1910E+00
12.0	1.0106E+00	1.0017E+00	74.0	1.0112E+00	1.0040E+00	134.0	1.5755E+00	1.2005E+00
14.0	1.0024E+00	1.0029E+00	76.0	1.0718E+00	1.0080E+00	136.0	9.2187E-01	1.2428E+00
16.0	9.8969E-01	1.0021E+00	78.0	1.0086E+00	1.0113E+00	138.0	2.8867E-01	1.3137E+00
18.0	9.8389E-01	1.0001E+00	80.0	9.1266E-01	1.0094E+00	140.0	1.1493E+00	1.3263E+00
20.0	9.9267E-01	9.9854E-01	82.0	9.4902E-01	1.0066E+00	142.0	1.8265E+00	1.3223E+00
22.0	1.0108E+00	9.9876E-01	84.0	1.0714E+00	1.0097E+00	144.0	7.7743E-01	1.4572E+00
24.0	1.0221E+00	1.0006E+00	86.0	1.0678E+00	1.0157E+00	146.0	1.6391E-01	1.6071E+00
26.0	1.0140E+00	1.0025E+00	88.0	9.2354E-01	1.0161E+00	148.0	1.5593E+00	1.5398E+00
28.0	9.9162E-01	1.0027E+00	90.0	8.6133E-01	1.0122E+00	150.0	2.2496E+00	1.5682E+00
30.0	9.7594E-01	1.0012E+00	92.0	1.0422E+00	1.0139E+00	152.0	6.7776E-01	2.0149E+00
32.0	9.8392E-01	9.9947E-01	94.0	1.1206E+00	1.0220E+00	154.0	1.9398E-01	2.2226E+00
34.0	1.0092E+00	9.9941E-01	96.0	9.5427E-01	1.0253E+00	156.0	2.4189E+00	1.8681E+00
36.0	1.0250E+00	1.0011E+00	98.0	8.2884E-01	1.0213E+00	158.0	3.3897E+00	2.3273E+00
38.0	1.0124E+00	1.0027E+00	100.0	9.9795E-01	1.0222E+00	160.0	1.2243E+00	3.7864E+00
40.0	9.8395E-01	1.0025E+00	102.0	1.1671E+00	1.0323E+00	162.0	5.8338E-01	3.6105E+00
42.0	9.7393E-01	1.0008E+00	104.0	9.9014E-01	1.0387E+00	164.0	4.8140E+00	2.5523E+00
44.0	9.9752E-01	9.9990E-01	106.0	7.6976E-01	1.0356E+00	166.0	9.3913E+00	6.3941E+00
46.0	1.0277E+00	1.0011E+00	108.0	9.5120E-01	1.0372E+00	168.0	7.2105E+00	1.2341E+01
48.0	1.0242E+00	1.0033E+00	110.0	1.2186E+00	1.0499E+00	170.0	1.9567E+00	8.0317E+00
50.0	9.8618E-01	1.0038E+00	112.0	1.0197E+00	1.0590E+00	172.0	2.2274E+01	8.4024E+00
52.0	9.6103E-01	1.0021E+00	114.0	6.9511E-01	1.0586E+00	174.0	1.1538E+02	7.6908E+01
54.0	9.6585E-01	1.0006E+00	116.0	9.1422E-01	1.0636E+00	176.0	2.9665E+02	2.5800E+02
56.0	1.0317E+00	1.0017E+00	118.0	1.2918E+00	1.0790E+00	178.0	4.9469E+02	4.7986E+02
58.0	1.0340E+00	1.0044E+00	120.0	1.2918E+00	1.0911E+00	180.0	5.8249E+02	5.8249E+02
60.0	9.8312E-01	1.0082E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=24.0

NORMALIZED CROSS SECTION E-PLANE			NORMALIZED CROSS SECTION H-PLANE			NORMALIZED CROSS SECTION E-PLANE			NORMALIZED CROSS SECTION H-PLANE		
ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE	ANGLE
2.0	1.0312E+00	1.0312E+00	62.0	9.6160E-01	1.0048E+00	122.0	6.4644E-01	1.0981E+00	122.0	6.4644E-01	1.0981E+00
4.0	1.0220E+00	1.0220E+00	64.0	9.5610E-01	1.0024E+00	124.0	7.5961E-01	1.1092E+00	124.0	7.5961E-01	1.1092E+00
6.0	1.0000E+00	1.0107E+00	66.0	1.0178E+00	1.0023E+00	126.0	1.3531E+00	1.1248E+00	126.0	1.3531E+00	1.1248E+00
8.0	9.8111E-01	1.0095E+00	68.0	1.0553E+00	1.0065E+00	128.0	1.1693E+00	1.1420E+00	128.0	1.1693E+00	1.1420E+00
10.0	9.7597E-01	1.0010E+00	70.0	1.0019E+00	1.0079E+00	130.0	4.9144E-01	1.1681E+00	130.0	4.9144E-01	1.1681E+00
12.0	9.8747E-01	9.9686E-01	72.0	9.3278E-01	1.0062E+00	132.0	7.8400E-01	1.1923E+00	132.0	7.8400E-01	1.1923E+00
14.0	1.0063E+00	9.9707E-01	74.0	9.6297E-01	1.0038E+00	134.0	1.5485E+00	1.2009E+00	134.0	1.5485E+00	1.2009E+00
16.0	1.0178E+00	9.9972E-01	76.0	1.0544E+00	1.0059E+00	136.0	1.1174E+00	1.2345E+00	136.0	1.1174E+00	1.2345E+00
18.0	1.0128E+00	1.0021E+00	78.0	1.0547E+00	1.0105E+00	138.0	2.9262E-01	1.3090E+00	138.0	2.9262E-01	1.3090E+00
19.0	9.9713E-01	1.0024E+00	80.0	9.4828E-01	1.0111E+00	140.0	9.3758E-01	1.3353E+00	140.0	9.3758E-01	1.3353E+00
20.0	9.9596E-01	1.0010E+00	82.0	9.1028E-01	1.0077E+00	142.0	1.8459E+00	1.3203E+00	142.0	1.8459E+00	1.3203E+00
22.0	9.9050E-01	9.9910E-01	84.0	1.0202E+00	1.0079E+00	144.0	9.9575E-01	1.4349E+00	144.0	9.9575E-01	1.4349E+00
24.0	1.0068E+00	9.9934E-01	86.0	1.0960E+00	1.0138E+00	146.0	1.1114E-01	1.6081E+00	146.0	1.1114E-01	1.6081E+00
26.0	1.0171E+00	1.0004E+00	88.0	9.8829E-01	1.0173E+00	148.0	1.3299E+00	1.5642E+00	148.0	1.3299E+00	1.5642E+00
28.0	1.0090E+00	1.0023E+00	90.0	8.7174E-01	1.0141E+00	150.0	2.3234E+00	1.5462E+00	150.0	2.3234E+00	1.5462E+00
30.0	9.8596E-01	1.0022E+00	92.0	9.6811E-01	1.0126E+00	152.0	9.0131E-01	1.9706E+00	152.0	9.0131E-01	1.9706E+00
32.0	9.7163E-01	1.0007E+00	94.0	1.1217E+00	1.0193E+00	154.0	8.6134E-02	2.2568E+00	154.0	8.6134E-02	2.2568E+00
34.0	9.9116E-01	9.9934E-01	96.0	1.0367E+00	1.0258E+00	156.0	2.1762E+00	1.9056E+00	156.0	2.1762E+00	1.9056E+00
36.0	1.0173E+00	9.9932E-01	98.0	8.4167E-01	1.0236E+00	158.0	3.4897E+00	2.2346E+00	158.0	3.4897E+00	2.2346E+00
38.0	1.0265E+00	1.0017E+00	100.0	9.0939E-01	1.0213E+00	160.0	1.4610E+00	3.7321E+00	160.0	1.4610E+00	3.7321E+00
40.0	1.0055E+00	1.0030E+00	102.0	1.1420E+00	1.0293E+00	162.0	4.6402E-01	3.7484E+00	162.0	4.6402E-01	3.7484E+00
42.0	9.7626E-01	1.0023E+00	104.0	1.0851E+00	1.0387E+00	164.0	4.4623E+00	2.5397E+00	164.0	4.4623E+00	2.5397E+00
44.0	9.7497E-01	1.0005E+00	106.0	8.0601E-01	1.0379E+00	166.0	9.3855E+00	6.0819E+00	166.0	9.3855E+00	6.0819E+00
46.0	1.0055E+00	1.0001E+00	108.0	8.4950E-01	1.0364E+00	168.0	7.6557E+00	1.2391E+01	168.0	7.6557E+00	1.2391E+01
48.0	1.0308E+00	1.0018E+00	110.0	1.1732E+00	1.0467E+00	170.0	1.9882E+00	8.5011E+00	170.0	1.9882E+00	8.5011E+00
50.0	1.0140E+00	1.0037E+00	112.0	1.1295E+00	1.0587E+00	172.0	2.0904E+01	7.8052E+00	172.0	2.0904E+01	7.8052E+00
52.0	9.7320E-01	1.0034E+00	114.0	7.4710E-01	1.0603E+00	174.0	1.1359E+02	7.5068E+01	174.0	1.1359E+02	7.5068E+01
54.0	9.6415E-01	1.0014E+00	116.0	7.9416E-01	1.0626E+00	176.0	2.9795E+02	2.5854E+02	176.0	2.9795E+02	2.5854E+02
56.0	1.0051E+00	1.0007E+00	118.0	1.2358E+00	1.0763E+00	178.0	5.0152E+02	4.8628E+02	178.0	5.0152E+02	4.8628E+02
58.0	1.0423E+00	1.0029E+00	120.0	1.1630E+00	1.0904E+00	180.0	5.9220E+02	5.9220E+02	180.0	5.9220E+02	5.9220E+02
60.0	1.0185E+00	1.0053E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=24.2

NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION	
E-PLANE		E-PLANE		E-PLANE	
ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE
0.0	1.0293E+00	62.0	9.9305E-01	122.0	7.5115E-01
2.0	1.0221E+00	64.0	9.4713E-01	124.0	1.1085E+00
4.0	1.0040E+00	66.0	9.7772E-01	126.0	1.1237E+00
6.0	9.8451E-01	68.0	1.0439E+00	128.0	1.1399E+00
8.0	9.7409E-01	70.0	1.0406E+00	130.0	1.1650E+00
10.0	9.7926E-01	72.0	9.6060E-01	132.0	6.2550E-01
12.0	9.9758E-01	74.0	9.3151E-01	134.0	1.4616E+00
14.0	1.0172E+00	76.0	1.0118E+00	136.0	1.2911E+00
16.0	1.0237E+00	78.0	1.0745E+00	138.0	3.5434E-01
18.0	1.0116E+00	80.0	1.0026E+00	140.0	7.3268E-01
20.0	9.9065E-01	82.0	9.0622E-01	142.0	1.8089E+00
22.0	9.7882E-01	84.0	9.5981E-01	144.0	1.2150E+00
24.0	9.8700E-01	86.0	1.0849E+00	146.0	1.1180E-01
26.0	1.0076E+00	88.0	1.0528E+00	148.0	1.0931E+00
28.0	1.0199E+00	90.0	8.9895E-01	150.0	2.3500E+00
30.0	1.0104E+00	92.0	9.0267E-01	152.0	1.1370E+00
32.0	9.8858E-01	94.0	1.0801E+00	154.0	2.1013E-02
34.0	9.7980E-01	96.0	1.1022E+00	156.0	1.9204E+00
36.0	9.9629E-01	98.0	8.9671E-01	158.0	3.5527E+00
38.0	1.0205E+00	100.0	8.4367E-01	160.0	1.7149E+00
40.0	1.0219E+00	102.0	1.0745E+00	162.0	3.7945E-01
42.0	9.9463E-01	104.0	1.1517E+00	164.0	4.1071E+00
44.0	9.6998E-01	106.0	8.8425E-01	166.0	9.3464E+00
46.0	9.8111E-01	108.0	7.7959E-01	168.0	8.0933E+00
48.0	1.0177E+00	110.0	1.0852E+00	170.0	2.0665E+00
50.0	1.0323E+00	112.0	1.2052E+00	172.0	1.9572E+01
52.0	1.0014E+00	114.0	8.4312E-01	174.0	1.1176E+02
54.0	9.6407E-01	116.0	7.0916E-01	176.0	2.9917E+02
56.0	9.7529E-01	118.0	1.1339E+00	178.0	5.0837E+02
58.0	1.0249E+00	120.0	1.2610E+00	180.0	6.0198E+02
60.0	1.0412E+00				

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BI-STATIC SCATTERING FROM CONDUCTING SPHERE

KA=24.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.9978E-01	9.9978E-01	62.0	1.0265E+00	1.0053E+00	122.0	8.8789E-01	1.0982E+00
2.0	1.0015E+00	1.0005E+00	64.0	9.5552E-01	1.0053E+00	124.0	5.7763E-01	1.1079E+00
4.0	1.0042E+00	1.0022E+00	66.0	9.4924E-01	1.0023E+00	126.0	1.1087E+00	1.1237E+00
6.0	1.0035E+00	1.0033E+00	68.0	1.0113E+00	1.0025E+00	128.0	1.3941E+00	1.1362E+00
8.0	9.9763E-01	1.0029E+00	70.0	1.0576E+00	1.0057E+00	130.0	7.2703E-01	1.1616E+00
10.0	9.9110E-01	1.0011E+00	72.0	1.0051E+00	1.0083E+00	132.0	5.0586E-01	1.1925E+00
12.0	9.9146E-01	9.9836E-01	74.0	9.3070E-01	1.0066E+00	134.0	1.3327E+00	1.2051E+00
14.0	1.0011E+00	9.9822E-01	76.0	9.6322E-01	1.0042E+00	136.0	1.4476E+00	1.2219E+00
16.0	1.0130E+00	9.9939E-01	78.0	1.0593E+00	1.0066E+00	138.0	4.6796E-01	1.2929E+00
18.0	1.0154E+00	1.0015E+00	80.0	1.0523E+00	1.0114E+00	140.0	5.5067E-01	1.3493E+00
20.0	1.0035E+00	1.0027E+00	82.0	9.3737E-01	1.0115E+00	142.0	1.7183E+00	1.3278E+00
22.0	9.8618E-01	1.0021E+00	84.0	9.1352E-01	1.0081E+00	144.0	1.4216E+00	1.3930E+00
24.0	9.7993E-01	1.0002E+00	86.0	1.0393E+00	1.0092E+00	146.0	1.6517E-01	1.5931E+00
26.0	9.9332E-01	9.9882E-01	88.0	1.0938E+00	1.0156E+00	148.0	8.5986E-01	1.6151E+00
28.0	1.0152E+00	9.9936E-01	90.0	9.5715E-01	1.0180E+00	150.0	2.3268E+00	1.5254E+00
30.0	1.0232E+00	1.0012E+00	92.0	8.6753E-01	1.0142E+00	152.0	1.3760E+00	1.8712E+00
32.0	1.0072E+00	1.0026E+00	94.0	1.0099E+00	1.0146E+00	154.0	7.9258E-05	2.2979E+00
34.0	9.8302E-01	1.0021E+00	96.0	1.1312E+00	1.0227E+00	156.0	1.6500E+00	2.0057E+00
36.0	9.7814E-01	1.0004E+00	98.0	9.7714E-01	1.0273E+00	158.0	3.5771E+00	2.0776E+00
38.0	9.9977E-01	9.9967E-01	100.0	8.1909E-01	1.0238E+00	160.0	1.9720E+00	3.5802E+00
40.0	1.0227E+00	1.0008E+00	102.0	9.8397E-01	1.0243E+00	162.0	3.3016E-01	4.0031E+00
42.0	1.0167E+00	1.0026E+00	104.0	1.1737E+00	1.0343E+00	164.0	3.7519E+00	2.5839E+00
44.0	9.8001E-01	1.0028E+00	106.0	9.8480E-01	1.0413E+00	166.0	9.2715E+00	5.4642E+00
46.0	9.6963E-01	1.0012E+00	108.0	7.5738E-01	1.0384E+00	168.0	8.5218E+00	1.2395E+01
48.0	9.9342E-01	1.0001E+00	110.0	9.7490E-01	1.0414E+00	170.0	2.1898E+00	9.4685E+00
50.0	1.0292E+00	1.0012E+00	112.0	1.2316E+00	1.0549E+00	172.0	1.8281E+01	6.7667E+00
52.0	1.0270E+00	1.0035E+00	114.0	9.6352E-01	1.0630E+00	174.0	1.0988E+02	7.1337E+01
54.0	9.8451E-01	1.0040E+00	116.0	6.7464E-01	1.0632E+00	176.0	3.0033E+02	2.5942E+01
56.0	9.5963E-01	1.0022E+00	118.0	1.0046E+00	1.0715E+00	178.0	5.1522E+02	4.9914E+02
58.0	9.9251E-01	1.0010E+00	120.0	1.3091E+00	1.0874E+00	180.0	6.1185E+02	6.1185E+02
60.0	1.0392E+00	1.0026E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=24.6

NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE
E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE	
0.0	9.7201E-01	62.0	1.0040E+00	1.0040E+00	122.0	1.0349E+00	1.0349E+00	122.0
2.0	9.8084E-01	64.0	1.0011E+00	1.0059E+00	124.0	5.6797E-01	1.1075E+00	124.0
4.0	1.0014E+00	66.0	9.4686E-01	1.0044E+00	126.0	9.5015E-01	1.1219E+00	126.0
6.0	1.0197E+00	68.0	9.7190E-01	1.0024E+00	128.0	1.4293E+00	1.1370E+00	128.0
8.0	1.0232E+00	70.0	1.0448E+00	1.0039E+00	130.0	8.9235E-01	1.1582E+00	130.0
10.0	1.0105E+00	72.0	1.0443E+00	1.0077E+00	132.0	4.3741E-01	1.1910E+00	132.0
12.0	9.9250E-01	74.0	9.5977E-01	1.0082E+00	134.0	1.1663E+00	1.2080E+00	134.0
14.0	9.8412E-01	76.0	9.2998E-01	1.0053E+00	136.0	1.5524E+00	1.2183E+00	136.0
16.0	9.9150E-01	78.0	1.0174E+00	1.0051E+00	138.0	6.2334E-01	1.2827E+00	138.0
18.0	1.0067E+00	80.0	1.0767E+00	1.0037E+00	140.0	4.0401E-01	1.3528E+00	140.0
20.0	1.0142E+00	82.0	9.9037E-01	1.0126E+00	142.0	1.5808E+00	1.3362E+00	142.0
22.0	1.0060E+00	84.0	8.9906E-01	1.0098E+00	144.0	1.6029E+00	1.3757E+00	144.0
24.0	9.9020E-01	86.0	9.7715E-01	1.0081E+00	146.0	2.6772E-01	1.5778E+00	146.0
26.0	9.8479E-01	88.0	1.0971E+00	1.0133E+00	148.0	6.4166E-01	1.6387E+00	148.0
28.0	9.9400E-01	90.0	1.0260E+00	1.0185E+00	150.0	2.2556E+00	1.5269E+00	150.0
30.0	1.0169E+00	92.0	8.7408E-01	1.0164E+00	152.0	1.6012E+00	1.8198E+00	152.0
32.0	1.0190E+00	94.0	9.3461E-01	1.0138E+00	154.0	2.3424E-02	2.3033E+00	154.0
34.0	9.9864E-01	96.0	1.1157E+00	1.0199E+00	156.0	1.3957E+00	2.0647E+00	156.0
36.0	9.7690E-01	98.0	1.0590E+00	1.0274E+00	158.0	3.5627E+00	2.0163E+00	158.0
38.0	9.8053E-01	100.0	8.4198E-01	1.0259E+00	160.0	2.2306E+00	3.4855E+00	160.0
40.0	1.0082E+00	102.0	8.9518E-01	1.0235E+00	162.0	3.1617E-01	4.1156E+00	162.0
42.0	1.0270E+00	104.0	1.1463E+00	1.0318E+00	164.0	3.4003E+00	2.6389E+00	164.0
44.0	1.0110E+00	106.0	1.0827E+00	1.0414E+00	166.0	9.1627E+00	5.1639E+00	166.0
46.0	9.7836E-01	108.0	7.8721E-01	1.0405E+00	168.0	8.9371E+00	1.2348E+01	168.0
48.0	9.7328E-01	110.0	8.6698E-01	1.0403E+00	170.0	2.3562E+00	3.9609E+00	170.0
50.0	1.0068E+00	112.0	1.2039E+00	1.0520E+00	172.0	1.7013E+01	6.3260E+00	172.0
52.0	1.0343E+00	114.0	1.0840E+00	1.0632E+00	174.0	1.0797E+02	6.9456E+01	174.0
54.0	1.0127E+00	116.0	6.9618E-01	1.0644E+00	176.0	3.0140E+02	2.5975E+02	176.0
56.0	9.6752E-01	118.0	8.7110E-01	1.0659E+00	178.0	5.2209E+02	5.0557E+02	178.0
58.0	9.6472E-01	120.0	1.2999E+00	1.0852E+00	180.0	6.2180E+02	6.2180E+02	180.0
60.0	1.0148E+00							

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=24.8

ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE	ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE	ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE
0.0	9.7285E-01	9.7285E-01	62.0	1.0367E+00	1.0024E+00	122.0	1.1630E+00	1.0971E+00
2.0	9.8003E-01	9.7520E-01	64.0	1.0343E+00	1.0053E+00	124.0	6.1607E-01	1.1071E+00
4.0	9.9403E-01	9.8160E-01	66.0	9.7073E-01	1.0058E+00	126.0	7.9547E-01	1.1212E+00
6.0	1.0173E-00	9.9020E-01	68.0	9.4604E-01	1.0034E+00	128.0	1.4053E+00	1.1361E+00
8.0	1.0264E+00	9.9838E-01	70.0	1.0089E+00	1.0028E+00	130.0	1.0640E+00	1.1550E+00
10.0	1.0191E+00	1.0037E+00	72.0	1.0601E+00	1.0061E+00	132.0	4.2649E-01	1.1884E+00
12.0	9.9987E-01	1.0049E+00	74.0	1.0046E+00	1.0088E+00	134.0	9.8224E-01	1.2108E+00
14.0	9.8215E-01	1.0028E+00	76.0	9.2648E-01	1.0070E+00	136.0	1.6034E+00	1.2168E+00
16.0	9.7533E-01	9.9966E-01	78.0	9.6637E-01	1.0047E+00	138.0	8.0709E-01	1.2721E+00
18.0	9.9394E-01	9.9800E-01	80.0	1.0664E+00	1.0076E+00	140.0	3.0365E-01	1.3533E+00
20.0	1.0137E+00	9.9877E-01	82.0	1.0438E+00	1.0123E+00	142.0	1.4060E+00	1.3467E+00
22.0	1.0705E+00	1.0009E+00	84.0	9.2165E-01	1.0118E+00	144.0	1.7479E+00	1.3621E+00
24.0	1.0077E+00	1.0024E+00	86.0	9.2232E-01	1.0094E+00	146.0	4.1330E-01	1.5582E+00
26.0	9.8794E-01	1.0019E+00	88.0	1.0625E+00	1.0109E+00	148.0	4.4843E-01	1.6590E+00
28.0	9.8232E-01	1.0003E+00	90.0	1.0616E+00	1.0176E+00	150.0	2.1397E+00	1.5358E+00
30.0	9.9751E-01	9.9942E-01	92.0	9.1044E-01	1.0184E+00	152.0	1.8281E+00	1.7696E+00
32.0	1.0164E+00	1.0003E+00	94.0	8.7843E-01	1.0145E+00	154.0	8.9766E-02	2.2983E+00
34.0	1.0155E+00	1.0019E+00	96.0	1.0614E+00	1.0174E+00	156.0	1.1403E+00	2.1270E+00
36.0	9.3342E-01	1.0024E+00	98.0	1.1181E+00	1.0262E+00	158.0	3.5049E+00	1.9680E+00
38.0	9.7643E-01	1.0011E+00	100.0	9.0492E-01	1.0280E+00	160.0	2.4817E+00	3.3807E+00
40.0	9.8853E-01	9.9974E-01	102.0	8.3195E-01	1.0241E+00	162.0	3.3701E-01	4.2157E+00
42.0	1.0181E+00	1.0002E+00	104.0	1.0773E+00	1.0289E+00	164.0	3.0549E+00	2.7140E+00
44.0	1.0272E+00	1.0021E+00	106.0	1.1539E+00	1.0401E+00	166.0	9.0213E+00	4.8726E+00
46.0	9.9598E-01	1.0032E+00	108.0	8.6111E-01	1.0426E+00	168.0	9.3370E+00	1.2270E+01
48.0	9.7003E-01	1.0022E+00	110.0	7.8512E-01	1.0403E+00	170.0	2.5638E+00	1.0455E+01
50.0	9.7993E-01	1.0005E+00	112.0	1.1287E+00	1.0491E+00	172.0	1.5829E+01	5.9377E+00
52.0	1.0196E+00	1.0009E+00	114.0	1.1805E+00	1.0624E+00	174.0	1.0602E+02	6.7567E+01
54.0	1.0322E+00	1.0031E+00	116.0	7.6879E-01	1.0659E+00	176.0	3.0240E+02	2.6000E+02
56.0	9.9378E-01	1.0043E+00	118.0	7.5681E-01	1.0690E+00	178.0	5.2897E+02	5.1201E+02
58.0	9.5765E-01	1.0028E+00	120.0	1.2358E+00	1.0829E+00	180.0	6.3183E+02	6.3183E+02
60.0	9.8243E-01	1.0012E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=25.0

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE			E-PLANE		
ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE
0.0	1.0006E+00	62.0	1.0083E+00	1.0015E+00	122.0	1.2697E+00	1.0959E+00	122.0	1.2697E+00	1.0959E+00	1.0959E+00
2.0	9.9896E-01	64.0	1.0071E+00	1.0040E+00	124.0	7.1421E-01	1.1067E+00	124.0	7.1421E-01	1.1067E+00	1.1067E+00
4.0	9.9674E-01	66.0	1.0075E+00	1.0062E+00	126.0	6.6555E-01	1.1204E+00	126.0	6.6555E-01	1.1204E+00	1.1204E+00
6.0	9.9653E-01	68.0	9.4620E-01	1.0049E+00	128.0	1.3259E+00	1.1355E+00	128.0	1.3259E+00	1.1355E+00	1.1355E+00
8.0	1.0048E+00	70.0	9.6779E-01	1.0028E+00	130.0	1.2220E+00	1.1523E+00	130.0	1.2220E+00	1.1523E+00	1.1523E+00
10.0	1.0101E+00	72.0	1.0452E+00	1.0043E+00	132.0	4.7477E-01	1.1850E+00	132.0	4.7477E-01	1.1850E+00	1.1850E+00
12.0	1.0078E+00	74.0	1.0445E+00	1.0082E+00	134.0	7.9906E-01	1.2131E+00	134.0	7.9906E-01	1.2131E+00	1.2131E+00
14.0	9.9730E-01	76.0	9.5393E-01	1.0085E+00	136.0	1.5967E+00	1.2172E+00	136.0	1.5967E+00	1.2172E+00	1.2172E+00
16.0	9.8687E-01	78.0	9.2912E-01	1.0058E+00	138.0	1.0036E+00	1.2617E+00	138.0	1.0036E+00	1.2617E+00	1.2617E+00
18.0	9.8759E-01	80.0	1.0268E+00	1.0059E+00	140.0	2.5655E-01	1.3506E+00	140.0	2.5655E-01	1.3506E+00	1.3506E+00
20.0	1.0016E+00	82.0	1.0763E+00	1.0109E+00	142.0	1.2001E+00	1.3581E+00	142.0	1.2001E+00	1.3581E+00	1.3581E+00
22.0	1.0170E+00	84.0	9.7192E-01	1.0131E+00	144.0	1.8492E+00	1.3537E+00	144.0	1.8492E+00	1.3537E+00	1.3537E+00
24.0	1.0176E+00	86.0	8.9527E-01	1.0099E+00	146.0	5.9349E-01	1.5353E+00	146.0	5.9349E-01	1.5353E+00	1.5353E+00
26.0	1.0002E+00	88.0	1.0036E+00	1.0093E+00	148.0	2.8925E-01	1.6750E+00	148.0	2.8925E-01	1.6750E+00	1.6750E+00
28.0	9.9127E-01	90.0	1.1047E+00	1.0156E+00	150.0	1.9812E+00	1.5514E+00	150.0	1.9812E+00	1.5514E+00	1.5514E+00
30.0	9.8144E-01	92.0	9.8756E-01	1.0196E+00	152.0	2.0246E+00	1.7223E+00	152.0	2.0246E+00	1.7223E+00	1.7223E+00
32.0	1.0023E+00	94.0	9.5855E-01	1.0162E+00	154.0	1.8648E-01	2.2829E+00	154.0	1.8648E-01	2.2829E+00	2.2829E+00
34.0	1.0211E+00	96.0	9.8558E-01	1.0157E+00	156.0	8.9839E-01	2.1906E+00	156.0	8.9839E-01	2.1906E+00	2.1906E+00
36.0	1.0146E+00	98.0	1.1374E+00	1.0238E+00	158.0	3.4206E+00	1.9333E+00	158.0	3.4206E+00	1.9333E+00	1.9333E+00
38.0	9.6916E-01	100.0	9.8928E-01	1.0292E+00	160.0	2.7326E+00	3.2679E+00	160.0	2.7326E+00	3.2679E+00	3.2679E+00
40.0	9.7683E-01	102.0	8.1067E-01	1.0258E+00	162.0	3.9173E-01	4.3016E+00	162.0	3.9173E-01	4.3016E+00	4.3016E+00
42.0	9.9618E-01	104.0	9.8500E-01	1.0269E+00	164.0	2.7221E+00	2.8078E+00	164.0	2.7221E+00	2.8078E+00	2.8078E+00
44.0	1.0237E+00	106.0	1.1814E+00	1.0375E+00	166.0	8.8484E+00	4.5927E+00	166.0	8.8484E+00	4.5927E+00	4.5927E+00
46.0	1.0204E+00	108.0	9.6110E-01	1.0440E+00	168.0	9.7188E+00	1.2161E+01	168.0	9.7188E+00	1.2161E+01	1.2161E+01
48.0	9.8587E-01	110.0	7.4695E-01	1.0414E+00	170.0	2.8105E+00	1.0949E+01	170.0	2.8105E+00	1.0949E+01	1.0949E+01
50.0	9.6642E-01	112.0	1.0225E+00	1.0466E+00	172.0	1.4672E+01	5.6016E+00	172.0	1.4672E+01	5.6016E+00	5.6016E+00
52.0	9.9332E-01	114.0	1.2345E+00	1.0606E+00	174.0	1.0404E+02	6.5871E+01	174.0	1.0404E+02	6.5871E+01	6.5871E+01
54.0	1.0317E+00	116.0	8.7817E-01	1.0671E+00	176.0	3.0333E+02	2.6018E+02	176.0	3.0333E+02	2.6018E+02	2.6018E+02
56.0	1.0230E+00	118.0	6.8155E-01	1.0689E+00	178.0	5.2585E+02	5.1845E+02	178.0	5.2585E+02	5.1845E+02	5.1845E+02
58.0	9.7457E-01	120.0	1.1280E+00	1.0808E+00	180.0	6.4193E+02	6.4193E+02	180.0	6.4193E+02	6.4193E+02	6.4193E+02
60.0	9.5990E-01										

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=25.2

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0276E+00	1.0276E+00	62.0	9.7488E-01	1.0015E+00	122.0	1.3219E+00	1.0944E+00
2.0	1.0186E+00	1.0244E+00	64.0	1.0333E+00	1.0029E+00	124.0	8.4754E-01	1.1082E+00
4.0	9.9840E-01	1.0164E+00	66.0	1.0382E+00	1.0055E+00	126.0	5.7803E-01	1.1196E+00
6.0	9.8165E-01	1.0070E+00	68.0	9.7198E-01	1.0063E+00	128.0	1.2019E+00	1.1352E+00
8.0	9.7996E-01	9.9980E-01	70.0	9.4209E-01	1.0038E+00	130.0	1.3479E+00	1.1502E+00
10.0	9.9326E-01	9.9638E-01	72.0	1.0080E+00	1.0031E+00	132.0	5.7518E-01	1.1809E+00
12.0	1.0098E+00	9.9806E-01	74.0	1.0617E+00	1.0066E+00	134.0	6.3492E-01	1.2143E+00
14.0	1.0155E+00	1.0007E+00	76.0	9.9970E-01	1.0092E+00	136.0	1.5335E+00	1.2194E+00
16.0	1.0080E+00	1.0022E+00	78.0	9.2150E-01	1.0072E+00	138.0	1.1964E+00	1.2532E+00
18.0	9.9172E-01	1.0017E+00	80.0	9.7510E-01	1.0052E+00	140.0	2.8592E-01	1.3450E+00
20.0	9.8789E-01	1.0000E+00	82.0	1.0754E+00	1.0088E+00	142.0	9.9510E-01	1.3695E+00
22.0	9.9903E-01	9.9924E-01	84.0	1.0296E+00	1.0133E+00	144.0	1.8978E+00	1.3479E+00
24.0	1.0123E+00	1.0001E+00	86.0	9.0533E-01	1.0115E+00	146.0	7.9800E-01	1.5104E+00
26.0	1.0125E+00	1.0016E+00	88.0	9.4167E-01	1.0090E+00	148.0	1.7136E-01	1.6875E+00
28.0	9.9599E-01	1.0021E+00	90.0	1.0879E+00	1.0132E+00	150.0	1.7960E+00	1.5727E+00
30.0	9.8120E-01	1.0010E+00	92.0	1.0551E+00	1.0195E+00	152.0	2.1915E+00	1.6797E+00
32.0	9.8749E-01	9.9958E-01	94.0	8.8127E-01	1.0184E+00	154.0	3.3968E-01	2.2577E+00
34.0	1.0108E+00	9.9959E-01	96.0	9.1179E-01	1.0153E+00	156.0	6.7604E-01	2.2533E+00
36.0	1.0240E+00	1.0012E+00	98.0	1.1118E+00	1.0211E+00	158.0	3.2950E+00	1.9136E+00
38.0	1.0085E+00	1.0026E+00	100.0	1.0709E+00	1.0292E+00	160.0	2.8666E+00	3.1431E+00
40.0	9.8105E-01	1.0021E+00	102.0	8.3635E-01	1.0280E+00	162.0	4.7894E-01	4.3721E+00
42.0	9.7701E-01	1.0005E+00	104.0	8.9359E-01	1.0260E+00	164.0	2.4020E+00	2.9186E+00
44.0	1.0042E+00	1.0000E+00	106.0	1.1593E+00	1.0350E+00	166.0	8.6456E+00	4.3265E+00
46.0	1.0268E+00	1.0015E+00	108.0	1.0636E+00	1.0444E+00	168.0	1.0080E+01	1.2022E+01
48.0	1.0108E+00	1.0031E+00	110.0	7.6032E-01	1.0431E+00	170.0	3.0942E+00	1.1439E+01
50.0	9.7466E-01	1.0027E+00	112.0	9.0813E-01	1.0449E+00	172.0	1.3562E+01	5.3177E+00
52.0	9.7181E-01	1.0009E+00	114.0	1.2359E+00	1.0582E+00	174.0	1.0203E+02	6.3773E+01
54.0	1.0118E+00	1.0007E+00	116.0	1.0034E+00	1.0677E+00	176.0	3.0418E+02	2.6028E+02
56.0	1.0372E+00	1.0028E+00	118.0	6.5843E-01	1.0695E+00	178.0	5.4274E+02	5.2488E+02
58.0	1.0046E+00	1.0045E+00	120.0	9.9537E-01	1.0767E+00	180.0	6.5212E+02	6.5212E+02
60.0	9.5912E-01	1.0034E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=25.4

ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE
0.0	1.0277E+00	1.0277E+00	62.0	9.5490E-01	1.0025E+00	122.0	1.3182E+00	1.0927E+00
2.0	1.0201E+00	1.0251E+00	64.0	1.0012E+00	1.0016E+00	124.0	9.9616E-01	1.1055E+00
4.0	1.0016E+00	1.0184E+00	66.0	1.0147E+00	1.0040E+00	126.0	5.4386E-01	1.1187E+00
6.0	9.8308E-01	1.0037E+00	68.0	1.0102E+00	1.0065E+00	128.0	1.0494E+00	1.1349E+00
8.0	9.7566E-01	1.0017E+00	70.0	9.4416E-01	1.0053E+00	130.0	1.4274E+00	1.1487E+00
10.0	9.8447E-01	9.9697E-01	72.0	9.6671E-01	1.0031E+00	132.0	7.1658E-01	1.1765E+00
12.0	1.0039E+00	9.9637E-01	74.0	1.0489E+00	1.0048E+00	134.0	5.0581E-01	1.2144E+00
14.0	1.0196E+00	9.9881E-01	76.0	1.0423E+00	1.0088E+00	136.0	1.4198E+00	1.2228E+00
16.0	1.0188E+00	1.0018E+00	78.0	9.4589E-01	1.0088E+00	138.0	1.3693E+00	1.2445E+00
18.0	1.0021E+00	1.0030E+00	80.0	9.3272E-01	1.0058E+00	140.0	3.3007E-01	1.3368E+00
20.0	9.8449E-01	1.0018E+00	82.0	1.0418E+00	1.0069E+00	142.0	7.8715E-01	1.3799E+00
22.0	9.8280E-01	9.9932E-01	84.0	1.0719E+00	1.0122E+00	144.0	1.8939E+00	1.3477E+00
24.0	9.9873E-01	9.9896E-01	86.0	9.4776E-01	1.0135E+00	146.0	1.0153E+00	1.4847E+00
26.0	1.0155E+00	9.9997E-01	88.0	8.9896E-01	1.0100E+00	148.0	9.9919E-02	1.6904E+00
28.0	1.0142E+00	1.0016E+00	90.0	1.0377E+00	1.0111E+00	150.0	1.5830E+00	1.5984E+00
30.0	9.9576E-01	1.0020E+00	92.0	1.0995E+00	1.0181E+00	152.0	2.3226E+00	1.6430E+00
32.0	9.8226E-01	1.0009E+00	94.0	9.3777E-01	1.0202E+00	154.0	5.1437E-01	2.2234E+00
34.0	9.9206E-01	9.9969E-01	96.0	8.6282E-01	1.0163E+00	156.0	4.7875E-01	2.3132E+00
36.0	1.0148E+00	1.0001E+00	98.0	1.0499E+00	1.0187E+00	158.0	3.1377E+00	1.9060E+00
38.0	1.0207E+00	1.0019E+00	100.0	1.1270E+00	1.0279E+00	160.0	3.1833E+00	3.0268E+00
40.0	9.9829E-01	1.0026E+00	102.0	9.0143E-01	1.0300E+00	162.0	5.9681E-01	4.4259E+00
42.0	9.7447E-01	1.0016E+00	104.0	8.2673E-01	1.0264E+00	164.0	2.0966E+00	3.0443E+00
44.0	9.8281E-01	1.0001E+00	106.0	1.0940E+00	1.0332E+00	166.0	9.4144E+00	4.0760E+00
46.0	1.0157E+00	1.0003E+00	108.0	1.1449E+00	1.0435E+00	168.0	1.0419E+01	1.1855E+01
48.0	1.0279E+00	1.0022E+00	110.0	8.2157E-01	1.0451E+00	170.0	3.4127E+00	1.1923E+01
50.0	9.9840E-01	1.0033E+00	112.0	8.0978E-01	1.0443E+00	172.0	1.2502E+01	5.0855E+00
52.0	9.6764E-01	1.0022E+00	114.0	1.1854E+00	1.0554E+00	174.0	9.9866E+01	6.1873E+01
54.0	9.8436E-01	1.0007E+00	116.0	1.1209E+00	1.0676E+00	176.0	3.0495E+02	2.6032E+02
56.0	1.0281E+00	1.0015E+00	118.0	6.9049E-01	1.0704E+00	178.0	5.4964E+02	5.3132E+02
58.0	1.0300E+00	1.0039E+00	120.0	8.6009E-01	1.0772E+00	180.0	6.6239E+02	6.6239E+02
60.0	9.8006E-01	1.0045E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=25.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0016E+00	1.0016E+00	62.0	9.5939E-01	1.0039E+00	122.0	1.2508E+00	1.0908E+00	122.0	1.2508E+00	1.0908E+00
2.0	1.0026E+00	1.0021E+00	64.0	9.6868E-01	1.0018E+00	124.0	1.1392E+00	1.1047E+00	124.0	1.1392E+00	1.1047E+00
4.0	1.0038E+00	1.0031E+00	66.0	1.0313E+00	1.0026E+00	126.0	5.6701E-01	1.1178E+00	126.0	5.6701E-01	1.1178E+00
6.0	1.0014E+00	1.0035E+00	68.0	1.0415E+00	1.0057E+00	128.0	8.8787E-01	1.1346E+00	128.0	8.8787E-01	1.1346E+00
8.0	9.9520E-01	1.0024E+00	70.0	9.7217E-01	1.0065E+00	130.0	1.4516E+00	1.1479E+00	130.0	1.4516E+00	1.1479E+00
10.0	9.9078E-01	1.0002E+00	72.0	9.4066E-01	1.0041E+00	132.0	8.8310E-01	1.1731E+00	132.0	8.8310E-01	1.1731E+00
12.0	9.9461E-01	9.9855E-01	74.0	1.0122E+00	1.0036E+00	134.0	4.2407E-01	1.2150E+00	134.0	4.2407E-01	1.2150E+00
14.0	1.0058E+00	9.9857E-01	76.0	1.0641E+00	1.0073E+00	136.0	1.2634E+00	1.2269E+00	136.0	1.2634E+00	1.2269E+00
16.0	1.0144E+00	1.0002E+00	78.0	9.9082E-01	1.0097E+00	138.0	1.5079E+00	1.2388E+00	138.0	1.5079E+00	1.2388E+00
18.0	1.0103E+00	1.0020E+00	80.0	9.1691E-01	1.0073E+00	140.0	4.4306E-01	1.3261E+00	140.0	4.4306E-01	1.3261E+00
20.0	9.9495E-01	1.0024E+00	82.0	9.8944E-01	1.0059E+00	142.0	5.9632E-01	1.3883E+00	142.0	5.9632E-01	1.3883E+00
22.0	9.8250E-01	1.0010E+00	84.0	1.0829E+00	1.0103E+00	144.0	1.8372E+00	1.3518E+00	144.0	1.8372E+00	1.3518E+00
24.0	9.8715E-01	9.9927E-01	86.0	1.0061E+00	1.0142E+00	146.0	1.2332E+00	1.4595E+00	146.0	1.2332E+00	1.4595E+00
26.0	1.0065E+00	9.9903E-01	88.0	8.9070E-01	1.0118E+00	148.0	7.7830E-02	1.6890E+00	148.0	7.7830E-02	1.6890E+00
28.0	1.0208E+00	1.0005E+00	90.0	9.7245E-01	1.0100E+00	150.0	1.3541E+00	1.6271E+00	150.0	1.3541E+00	1.6271E+00
30.0	1.0126E+00	1.0021E+00	92.0	1.1067E+00	1.0159E+00	152.0	2.4137E+00	1.6133E+00	152.0	2.4137E+00	1.6133E+00
32.0	9.8991E-01	1.0021E+00	94.0	1.0098E+00	1.0210E+00	154.0	7.1464E-01	2.1813E+00	154.0	7.1464E-01	2.1813E+00
34.0	9.7933E-01	1.0007E+00	96.0	8.5348E-01	1.0181E+00	156.0	3.1135E-01	2.3684E+00	156.0	3.1135E-01	2.3684E+00
36.0	9.9501E-01	9.9988E-01	98.0	9.7073E-01	1.0172E+00	158.0	2.9515E+00	1.9131E+00	158.0	2.9515E+00	1.9131E+00
38.0	1.0179E+00	1.0005E+00	100.0	1.1424E+00	1.0255E+00	160.0	3.3788E+00	2.9030E+00	160.0	3.3788E+00	2.9030E+00
40.0	1.0167E+00	1.0021E+00	102.0	9.8782E-01	1.0312E+00	162.0	7.4303E-01	4.4623E+00	162.0	7.4303E-01	4.4623E+00
42.0	9.9009E-01	1.0025E+00	104.0	8.0123E-01	1.0279E+00	164.0	1.8148E+00	3.1829E+00	164.0	1.8148E+00	3.1829E+00
44.0	9.7389E-01	1.0011E+00	106.0	1.0024E+00	1.0300E+00	166.0	8.1570E+00	3.8430E+00	166.0	8.1570E+00	3.8430E+00
46.0	9.9442E-01	1.0000E+00	108.0	1.1864E+00	1.0416E+00	168.0	1.0733E+01	1.1659E+01	168.0	1.0733E+01	1.1659E+01
48.0	1.0263E+00	1.0010E+00	110.0	9.1636E-01	1.0467E+00	170.0	3.7633E+00	1.2399E+01	170.0	3.7633E+00	1.2399E+01
50.0	1.0217E+00	1.0030E+00	112.0	7.4777E-01	1.0447E+00	172.0	1.1491E+01	4.9046E+00	172.0	1.1491E+01	4.9046E+00
52.0	9.8254E-01	1.0033E+00	114.0	1.0938E+00	1.0528E+00	174.0	9.7916E+01	5.9975E+01	174.0	9.7916E+01	5.9975E+01
54.0	9.6613E-01	1.0016E+00	116.0	1.2088E+00	1.0666E+00	176.0	3.0564E+02	2.6027E+02	176.0	3.0564E+02	2.6027E+02
56.0	1.0018E+00	1.0008E+00	118.0	7.7129E-01	1.0715E+00	178.0	5.5655E+02	5.3778E+02	178.0	5.5655E+02	5.3778E+02
58.0	1.0368E+00	1.0026E+00	120.0	7.4454E-01	1.0763E+00	180.0	6.7274E+02	6.7274E+02	180.0	6.7274E+02	6.7274E+02
60.0	1.0110E+00	1.0046E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=25.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.7534E-01	9.7534E-01	62.0	9.8533E-01	1.0048E+00	122.0	1.1564E+00	1.0889E+00
2.0	9.8390E-01	9.7835E-01	64.0	9.5277E-01	1.0029E+00	124.0	1.2530E+00	1.1037E+00
4.0	1.0032E+00	9.8600E-01	66.0	9.9836E-01	1.0018E+00	126.0	6.4356E-01	1.1167E+00
6.0	1.0188E+00	9.9491E-01	68.0	1.0499E+00	1.0043E+00	128.0	7.3771E-01	1.1341E+00
8.0	1.0190E+00	1.0015E+00	70.0	1.0115E+00	1.0068E+00	130.0	1.4184E+00	1.1478E+00
10.0	1.0050E+00	1.0037E+00	72.0	9.4150E-01	1.0056E+00	132.0	1.0565E+00	1.1681E+00
12.0	9.8983E-01	1.0023E+00	74.0	9.6894E-01	1.0034E+00	134.0	3.9726E-01	1.2102E+00
14.0	9.8699E-01	9.9930E-01	76.0	1.0544E+00	1.0055E+00	136.0	1.0682E+00	1.2311E+00
16.0	9.9790E-01	9.9884E-01	78.0	1.0366E+00	1.0095E+00	138.0	1.6012E+00	1.2354E+00
18.0	1.0104E+00	9.9976E-01	80.0	9.3381E-01	1.0090E+00	140.0	5.9739E-01	1.3141E+00
20.0	1.0105E+00	1.0013E+00	82.0	9.4053E-01	1.0061E+00	142.0	4.3539E-01	1.3941E+00
22.0	9.9762E-01	1.0018E+00	84.0	1.0591E+00	1.0083E+00	144.0	1.7316E+00	1.3597E+00
24.0	9.8686E-01	1.0007E+00	86.0	1.0585E+00	1.0137E+00	146.0	1.4399E+00	1.4361E+00
26.0	9.9224E-01	9.9949E-01	88.0	9.1940E-01	1.0136E+00	148.0	1.0563E-01	1.6812E+00
28.0	1.0099E+00	9.9961E-01	90.0	9.1525E-01	1.0102E+00	150.0	1.1193E+00	1.6572E+00
30.0	1.0186E+00	1.0011E+00	92.0	1.0752E+00	1.0135E+00	152.0	2.4602E+00	1.5915E+00
32.0	1.0048E+00	1.0022E+00	94.0	1.0741E+00	1.0205E+00	154.0	9.3383E-01	2.1328E+00
34.0	9.8268E-01	1.0017E+00	96.0	8.9591E-01	1.0202E+00	156.0	1.7788E-01	2.4172E+00
36.0	9.8008E-01	1.0002E+00	98.0	8.9801E-01	1.0170E+00	158.0	2.7407E+00	1.9334E+00
38.0	1.0031E+00	9.9965E-01	100.0	1.1135E+00	1.0229E+00	160.0	3.5497E+00	2.7800E+00
40.0	1.0233E+00	1.0009E+00	102.0	1.0718E+00	1.0312E+00	162.0	9.1510E-01	4.4807E+00
42.0	1.0121E+00	1.0025E+00	104.0	8.2284E-01	1.0300E+00	164.0	1.5533E+00	3.3322E+00
44.0	9.8239E-01	1.0022E+00	106.0	9.0700E-01	1.0268E+00	166.0	7.8757E+00	3.6294E+00
46.0	9.7655E-01	1.0007E+00	108.0	1.1790E+00	1.0390E+00	168.0	1.1021E+01	1.1438E+01
48.0	1.0067E+00	1.0003E+00	110.0	1.0231E+00	1.0475E+00	170.0	4.1437E+00	1.2864E+01
50.0	1.0298E+00	1.0019E+00	112.0	7.3435E-01	1.0460E+00	172.0	1.0531E+01	4.7741E+00
52.0	1.0071E+00	1.0035E+00	114.0	9.7962E-01	1.0506E+00	174.0	9.5823E+01	5.8081E+01
54.0	9.6827E-01	1.0028E+00	116.0	1.2509E+00	1.0649E+00	176.0	3.0626E+02	2.6015E+02
56.0	9.7482E-01	1.0010E+00	118.0	8.9582E-01	1.0723E+00	178.0	5.6346E+02	5.4420E+02
58.0	1.0220E+00	1.0014E+00	120.0	6.6752E-01	1.0760E+00	180.0	6.8317E+02	6.8317E+02
60.0	1.0346E+00	1.0038E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=26.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.7433E-01	9.7433E-01	62.0	1.0177E+00	1.0048E+00	122.0	1.0248E+00	1.0872E+00	1.0248E+00	1.0872E+00	1.0872E+00
2.0	9.8187E-01	9.7682E-01	64.0	9.6109E-01	1.0042E+00	124.0	1.3243E+00	1.1025E+00	1.3243E+00	1.1025E+00	1.1025E+00
4.0	1.0002E+00	9.8349E-01	66.0	9.6566E-01	1.0022E+00	126.0	7.6255E-01	1.1156E+00	7.6255E-01	1.1156E+00	1.1156E+00
6.0	1.0184E+00	9.9212E-01	68.0	1.0316E+00	1.0029E+00	128.0	6.1777E-01	1.1333E+00	6.1777E-01	1.1333E+00	1.1333E+00
8.0	1.0243E+00	9.9978E-01	70.0	1.0427E+00	1.0061E+00	130.0	1.3323E+00	1.1480E+00	1.3323E+00	1.1480E+00	1.1480E+00
10.0	1.0137E+00	1.0040E+00	72.0	9.6827E-01	1.0069E+00	132.0	1.2179E+00	1.1647E+00	1.2179E+00	1.1647E+00	1.1647E+00
12.0	9.9414E-01	1.0011E+00	74.0	9.3916E-01	1.0043E+00	134.0	4.2744E-01	1.2062E+00	4.2744E-01	1.2062E+00	1.2062E+00
14.0	9.8092E-01	1.0015E+00	76.0	1.0190E+00	1.0042E+00	136.0	9.0111E-01	1.2349E+00	9.0111E-01	1.2349E+00	1.2349E+00
16.0	9.6498E-01	9.9845E-01	78.0	1.0638E+00	1.0082E+00	138.0	1.6418E+00	1.2345E+00	1.6418E+00	1.2345E+00	1.2345E+00
18.0	1.0028E+00	9.9824E-01	80.0	9.7598E-01	1.0102E+00	140.0	7.7910E-01	1.3015E+00	7.7910E-01	1.3015E+00	1.3015E+00
20.0	1.0174E+00	9.9977E-01	82.0	9.1436E-01	1.0073E+00	142.0	3.1501E-01	1.3967E+00	3.1501E-01	1.3967E+00	1.3967E+00
22.0	1.0142E+00	1.0017E+00	84.0	1.0107E+00	1.0068E+00	144.0	1.5810E+00	1.3706E+00	1.5810E+00	1.3706E+00	1.3706E+00
24.0	9.9647E-01	1.0021E+00	86.0	1.0855E+00	1.0121E+00	146.0	1.6233E+00	1.4155E+00	1.6233E+00	1.4155E+00	1.4155E+00
26.0	9.8396E-01	1.0008E+00	88.0	9.7400E-01	1.0149E+00	148.0	1.8144E-01	1.6676E+00	1.8144E-01	1.6676E+00	1.6676E+00
28.0	9.9144E-01	9.9959E-01	90.0	8.8578E-01	1.0116E+00	150.0	8.8828E-01	1.6871E+00	8.8828E-01	1.6871E+00	1.6871E+00
30.0	1.0102E+00	9.9985E-01	92.0	1.0101E+00	1.0117E+00	152.0	2.4622E+00	1.5781E+00	2.4622E+00	1.5781E+00	1.5781E+00
32.0	1.0162E+00	1.0013E+00	94.0	1.1101E+00	1.0189E+00	154.0	1.1647E+00	2.0789E+00	1.1647E+00	2.0789E+00	2.0789E+00
34.0	9.9952E-01	1.0021E+00	96.0	9.4923E-01	1.0218E+00	156.0	8.1439E-02	2.4581E+00	8.1439E-02	2.4581E+00	2.4581E+00
36.0	9.8075E-01	1.0013E+00	98.0	8.5283E-01	1.0180E+00	158.0	2.5093E+00	1.9659E+00	2.5093E+00	1.9659E+00	1.9659E+00
38.0	9.8553E-01	9.9931E-01	100.0	1.0431E+00	1.0205E+00	160.0	3.6927E+00	2.6602E+00	3.6927E+00	2.6602E+00	2.6602E+00
40.0	1.0130E+00	1.0000E+00	102.0	1.1307E+00	1.0300E+00	162.0	1.1093E+00	4.4899E+00	1.1093E+00	4.4899E+00	4.4899E+00
42.0	1.0245E+00	1.0017E+00	104.0	8.8509E-01	1.0319E+00	164.0	1.3163E+00	3.4899E+00	1.3163E+00	3.4899E+00	3.4899E+00
44.0	1.0017E+00	1.0027E+00	106.0	8.3131E-01	1.0289E+00	166.0	7.5728E+00	3.4366E+00	7.5728E+00	3.4366E+00	3.4366E+00
46.0	9.7403E-01	1.0019E+00	108.0	1.1251E+00	1.0362E+00	168.0	1.1281E+01	1.1193E+01	1.1281E+01	1.1193E+01	1.1193E+01
48.0	9.8292E-01	1.0004E+00	110.0	1.1180E+00	1.0472E+00	170.0	4.5513E+00	1.3315E+01	4.5513E+00	1.3315E+01	1.3315E+01
50.0	1.0185E+00	1.0008E+00	112.0	7.7170E-01	1.0477E+00	172.0	9.5245E+00	4.6935E+00	9.5245E+00	4.6935E+00	4.6935E+00
52.0	1.0265E+00	1.0027E+00	114.0	8.6598E-01	1.0493E+00	174.0	9.3708E+01	5.6192E+01	9.3708E+01	5.6192E+01	5.6192E+01
54.0	9.8938E-01	1.0035E+00	116.0	1.2400E+00	1.0626E+00	176.0	3.0679E+02	2.5996E+02	3.0679E+02	2.5996E+02	2.5996E+02
56.0	9.6317E-01	1.0020E+00	118.0	1.0135E+00	1.0728E+00	178.0	5.7037E+02	5.5083E+02	5.7037E+02	5.5083E+02	5.5083E+02
58.0	9.9459E-01	1.0039E+00	120.0	6.4131E-01	1.0762E+00	180.0	6.9367E+02	6.9367E+02	6.9367E+02	6.9367E+02	6.9367E+02
60.0	1.0376E+00	1.0025E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=26.2

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE		
ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE
0.0	9.9878E-01	62.0	1.0384E+00	122.0	8.8589E-01	1.0857E+00	1.0857E+00	1.0857E+00
2.0	9.9779E-01	64.0	9.8847E-01	124.0	1.3425E+00	1.1011E+00	1.1011E+00	1.1011E+00
4.0	9.9736E-01	66.0	9.5010E-01	126.0	9.0727E-01	1.1145E+00	1.1145E+00	1.1145E+00
6.0	1.0005E+00	68.0	9.9653E-01	128.0	5.4286E-01	1.1322E+00	1.1322E+00	1.1322E+00
8.0	1.0068E+00	70.0	1.0510E+00	130.0	1.2040E+00	1.1484E+00	1.1484E+00	1.1484E+00
10.0	1.0098E+00	72.0	1.0081E+00	132.0	1.3501E+00	1.1623E+00	1.1623E+00	1.1623E+00
12.0	1.0043E+00	74.0	9.3656E-01	134.0	5.1097E-01	1.2013E+00	1.2013E+00	1.2013E+00
14.0	9.9311E-01	76.0	9.7452E-01	136.0	7.2243E-01	1.2377E+00	1.2377E+00	1.2377E+00
16.0	9.8659E-01	78.0	1.0614E+00	138.0	1.6269E+00	1.2359E+00	1.2359E+00	1.2359E+00
18.0	9.9342E-01	80.0	1.0254E+00	140.0	9.7551E-01	1.2891E+00	1.2891E+00	1.2891E+00
20.0	1.0092E+00	82.0	9.2112E-01	142.0	2.4290E-01	1.3957E+00	1.3957E+00	1.3957E+00
22.0	1.0179E+00	84.0	9.5691E-01	144.0	1.4035E+00	1.3836E+00	1.3836E+00	1.3836E+00
24.0	1.0083E+00	86.0	1.0775E+00	146.0	1.7755E+00	1.3988E+00	1.3988E+00	1.3988E+00
26.0	9.8876E-01	88.0	1.0341E+00	148.0	3.0104E-01	1.6487E+00	1.6487E+00	1.6487E+00
28.0	9.8081E-01	90.0	8.9351E-01	150.0	6.7069E-01	1.7154E+00	1.7154E+00	1.7154E+00
30.0	9.9507E-01	92.0	9.4954E-01	152.0	2.4192E+00	1.5733E+00	1.5733E+00	1.5733E+00
32.0	1.0157E+00	94.0	1.1067E+00	154.0	1.3997E+00	2.0219E+00	2.0219E+00	2.0219E+00
34.0	1.0167E+00	96.0	1.0233E+00	156.0	2.4123E-02	2.4898E+00	2.4898E+00	2.4898E+00
36.0	9.9537E-01	98.0	8.4794E-01	158.0	2.2842E+00	2.0094E+00	2.0094E+00	2.0094E+00
38.0	9.7969E-01	100.0	9.6784E-01	160.0	3.8054E+00	2.5455E+00	2.5455E+00	2.5455E+00
40.0	9.9313E-01	102.0	1.1490E+00	162.0	1.3242E+00	4.4629E+00	4.4629E+00	4.4629E+00
42.0	1.0190E+00	104.0	9.7136E-01	164.0	1.1060E+00	3.6536E+00	3.6536E+00	3.6536E+00
44.0	1.0189E+00	106.0	7.9355E-01	166.0	7.2507E+00	3.2659E+00	3.2659E+00	3.2659E+00
46.0	9.8845E-01	108.0	1.0383E+00	168.0	1.1511E+01	1.0924E+01	1.0924E+01	1.0924E+01
48.0	9.7087E-01	110.0	1.1804E+00	170.0	4.9836E+00	1.3750E+01	1.3750E+01	1.3750E+01
50.0	9.9604E-01	112.0	8.5123E-01	172.0	8.7708E+00	4.6618E+00	4.6618E+00	4.6618E+00
52.0	1.0290E+00	114.0	7.7455E-01	174.0	9.1572E+01	5.4312E+01	5.4312E+01	5.4312E+01
54.0	1.0161E+00	116.0	1.1792E+00	176.0	3.0725E+02	2.5970E+02	2.5970E+02	2.5970E+02
56.0	9.7295E-01	118.0	1.1317E+00	178.0	5.7728E+02	5.5705E+02	5.5705E+02	5.5705E+02
58.0	9.7014E-01	120.0	6.6955E-01	180.0	7.0426E+02	7.0426E+02	7.0426E+02	7.0426E+02
60.0	1.0185E+00							

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=26.4

NORMALIZED CROSS SECTION E-PLANE		NORMALIZED CROSS SECTION H-PLANE		ANGLE	NORMALIZED CROSS SECTION E-PLANE		NORMALIZED CROSS SECTION H-PLANE		ANGLE	NORMALIZED CROSS SECTION E-PLANE		NORMALIZED CROSS SECTION H-PLANE	
ANGLE													
0.0	1.0243E+00	1.0243E+00	1.0243E+00	62.0	1.0366E+00	1.0026E+00	1.0026E+00	1.0026E+00	122.0	7.6133E-01	1.0847E+00	1.0847E+00	1.0847E+00
2.0	1.0156E+00	1.0212E+00	1.0212E+00	64.0	1.0203E+00	1.0050E+00	1.0050E+00	1.0050E+00	124.0	1.3055E+00	1.0997E+00	1.0997E+00	1.0997E+00
4.0	9.9674E-01	1.0136E+00	1.0136E+00	66.0	9.5967E-01	1.0046E+00	1.0046E+00	1.0046E+00	126.0	1.0578E+00	1.1134E+00	1.1134E+00	1.1134E+00
6.0	9.8270E-01	1.0050E+00	1.0050E+00	68.0	9.6313E-01	1.0024E+00	1.0024E+00	1.0024E+00	128.0	5.2180E-01	1.1308E+00	1.1308E+00	1.1308E+00
8.0	9.8400E-01	9.9900E-01	9.9900E-01	70.0	1.0334E+00	1.0032E+00	1.0032E+00	1.0032E+00	130.0	1.0490E+00	1.1488E+00	1.1488E+00	1.1488E+00
10.0	9.9808E-01	9.9735E-01	9.9735E-01	72.0	1.0420E+00	1.0066E+00	1.0066E+00	1.0066E+00	132.0	1.4390E+00	1.1607E+00	1.1607E+00	1.1607E+00
12.0	1.0115E+00	9.9893E-01	9.9893E-01	74.0	9.6175E-01	1.0071E+00	1.0071E+00	1.0071E+00	134.0	6.3884E-01	1.1958E+00	1.1958E+00	1.1958E+00
14.0	1.0119E+00	1.0013E+00	1.0013E+00	76.0	9.4078E-01	1.0045E+00	1.0045E+00	1.0045E+00	136.0	5.6826E-01	1.2391E+00	1.2391E+00	1.2391E+00
16.0	9.9997E-01	1.0019E+00	1.0019E+00	78.0	1.0309E+00	1.0049E+00	1.0049E+00	1.0049E+00	138.0	1.5579E+00	1.2391E+00	1.2391E+00	1.2391E+00
18.0	9.8954E-01	1.0008E+00	1.0008E+00	80.0	1.0611E+00	1.0093E+00	1.0093E+00	1.0093E+00	140.0	1.1706E+00	1.2778E+00	1.2778E+00	1.2778E+00
20.0	9.9289E-01	9.9953E-01	9.9953E-01	82.0	9.5717E-01	1.0105E+00	1.0105E+00	1.0105E+00	142.0	2.2343E-01	1.3912E+00	1.3912E+00	1.3912E+00
22.0	1.0064E+00	9.9956E-01	9.9956E-01	84.0	9.1847E-01	1.0073E+00	1.0073E+00	1.0073E+00	144.0	1.2015E+00	1.3978E+00	1.3978E+00	1.3978E+00
24.0	1.0133E+00	1.0009E+00	1.0009E+00	86.0	1.0379E+00	1.0082E+00	1.0082E+00	1.0082E+00	146.0	1.8862E+00	1.3868E+00	1.3868E+00	1.3868E+00
26.0	1.0032E+00	1.0019E+00	1.0019E+00	88.0	1.0778E+00	1.0140E+00	1.0140E+00	1.0140E+00	148.0	4.5815E-01	1.5253E+00	1.5253E+00	1.5253E+00
28.0	9.8355E-01	1.0014E+00	1.0014E+00	90.0	9.3498E-01	1.0152E+00	1.0152E+00	1.0152E+00	150.0	4.7547E-01	1.7405E+00	1.7405E+00	1.7405E+00
30.0	9.8486E-01	9.9994E-01	9.9994E-01	92.0	8.9786E-01	1.0116E+00	1.0116E+00	1.0116E+00	152.0	2.3329E+00	1.5768E+00	1.5768E+00	1.5768E+00
32.0	1.0035E+00	9.9944E-01	9.9944E-01	94.0	1.0657E+00	1.0143E+00	1.0143E+00	1.0143E+00	154.0	1.6311E+00	1.9634E+00	1.9634E+00	1.9634E+00
34.0	1.0205E+00	1.0008E+00	1.0008E+00	96.0	1.0853E+00	1.0217E+00	1.0217E+00	1.0217E+00	156.0	6.9579E-03	2.5114E+00	2.5114E+00	2.5114E+00
36.0	1.0123E+00	1.0021E+00	1.0021E+00	98.0	8.8418E-01	1.0218E+00	1.0218E+00	1.0218E+00	158.0	2.0088E+00	2.0624E+00	2.0624E+00	2.0624E+00
38.0	9.8684E-01	1.0020E+00	1.0020E+00	100.0	8.9320E-01	1.0187E+00	1.0187E+00	1.0187E+00	160.0	3.8855E+00	2.4380E+00	2.4380E+00	2.4380E+00
40.0	9.7825E-01	1.0036E+00	1.0036E+00	102.0	1.1229E+00	1.0252E+00	1.0252E+00	1.0252E+00	162.0	1.5545E+00	4.2771E+00	4.2771E+00	4.2771E+00
42.0	1.0005E+00	9.9995E-01	9.9995E-01	104.0	1.0592E+00	1.0335E+00	1.0335E+00	1.0335E+00	164.0	9.2397E-01	3.8210E+00	3.8210E+00	3.8210E+00
44.0	1.0230E+00	1.0011E+00	1.0011E+00	106.0	8.0249E-01	1.0318E+00	1.0318E+00	1.0318E+00	166.0	6.9120E+00	3.1183E+00	3.1183E+00	3.1183E+00
46.0	1.0104E+00	1.0026E+00	1.0026E+00	108.0	9.3928E-01	1.0322E+00	1.0322E+00	1.0322E+00	168.0	1.1710E+01	1.0636E+01	1.0636E+01	1.0636E+01
48.0	9.7813E-01	1.0023E+00	1.0023E+00	110.0	1.1971E+00	1.0437E+00	1.0437E+00	1.0437E+00	170.0	5.4380E+00	1.4187E+01	1.4187E+01	1.4187E+01
50.0	9.7656E-01	1.0007E+00	1.0007E+00	112.0	9.5575E-01	1.0505E+00	1.0505E+00	1.0505E+00	172.0	7.9707E+00	4.6780E+00	4.6780E+00	4.6780E+00
52.0	1.0132E+00	1.0006E+00	1.0006E+00	114.0	7.2570E-01	1.0494E+00	1.0494E+00	1.0494E+00	174.0	8.9419E+01	5.2444E+01	5.2444E+01	5.2444E+01
54.0	1.0317E+00	1.0025E+00	1.0025E+00	116.0	1.0806E+00	1.0576E+00	1.0576E+00	1.0576E+00	176.0	3.0763E+02	2.5938E+02	2.5938E+02	2.5938E+02
56.0	9.9740E-01	1.0038E+00	1.0038E+00	118.0	1.2197E+00	1.0717E+00	1.0717E+00	1.0717E+00	178.0	5.8420E+02	5.6348E+02	5.6348E+02	5.6348E+02
58.0	9.6233E-01	1.0025E+00	1.0025E+00	120.0	7.4708E-01	1.0774E+00	1.0774E+00	1.0774E+00	180.0	7.1493E+02	7.1493E+02	7.1493E+02	7.1493E+02
60.0	9.8841E-01	1.0011E+00	1.0011E+00										

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=26.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0261E+00	1.0261E+00	62.0	1.0143E+00	1.0015E+00	122.0	6.7021E-01	1.0840E+00
2.0	1.0181E+00	1.0234E+00	64.0	1.0399E+00	1.0040E+00	124.0	1.2193E+00	1.0983E+00
4.0	9.9948E-01	1.0165E+00	66.0	9.8906E-01	1.0053E+00	126.0	1.1935E+00	1.1123E+00
6.0	9.8219E-01	1.0078E+00	68.0	9.4809E-01	1.0035E+00	128.0	5.5652E-01	1.1292E+00
8.0	9.7785E-01	1.0004E+00	70.0	9.9875E-01	1.0024E+00	130.0	8.8559E-01	1.1491E+00
10.0	9.8968E-01	9.9671E-01	72.0	1.0540E+00	1.0052E+00	132.0	1.4754E+00	1.1602E+00
12.0	1.0089E+00	9.9713E-01	74.0	1.0023E+00	1.0076E+00	134.0	7.9778E-01	1.1902E+00
14.0	1.0196E+00	9.9990E-01	76.0	9.3225E-01	1.0058E+00	136.0	4.5231E-01	1.2388E+00
16.0	1.0124E+00	1.0023E+00	78.0	9.8573E-01	1.0042E+00	138.0	1.4413E+00	1.2499E+00
18.0	9.9418E-01	1.0024E+00	80.0	1.0686E+00	1.0076E+00	140.0	1.3499E+00	1.2681E+00
20.0	9.8308E-01	1.0008E+00	82.0	1.0073E+00	1.0110E+00	142.0	2.5733E-01	1.3834E+00
22.0	9.9058E-01	9.9924E-01	84.0	9.0956E-01	1.0089E+00	144.0	9.9039E-01	1.4114E+00
24.0	1.0083E+00	9.9940E-01	86.0	9.8234E-01	1.0073E+00	146.0	1.9504E+00	1.3794E+00
26.0	1.0155E+00	1.0009E+00	88.0	1.0898E+00	1.0121E+00	148.0	6.4474E-01	1.5987E+00
28.0	1.0031E+00	1.0018E+00	90.0	9.9531E-01	1.0161E+00	150.0	3.1056E-01	1.7613E+00
30.0	9.8650E-01	1.0012E+00	92.0	8.7821E-01	1.0131E+00	152.0	2.2057E+00	1.5883E+00
32.0	9.8838E-01	9.9932E-01	94.0	1.0012E+00	1.0127E+00	154.0	1.8516E+00	1.9052E+00
34.0	1.0082E+00	9.9984E-01	96.0	1.1165E+00	1.0200E+00	156.0	2.9915E-02	2.5222E+00
36.0	1.0192E+00	1.0012E+00	98.0	9.5031E-01	1.0234E+00	158.0	1.7493E+00	2.1234E+00
38.0	1.0031E+00	1.0022E+00	100.0	8.4620E-01	1.0196E+00	160.0	3.9319E+00	2.3395E+00
40.0	9.7934E-01	1.0016E+00	102.0	1.0601E+00	1.0228E+00	162.0	1.7972E+00	4.3742E+00
42.0	9.8261E-01	1.0002E+00	104.0	1.1262E+00	1.0326E+00	164.0	7.7170E-01	3.9895E+00
44.0	1.0118E+00	1.0002E+00	106.0	8.5521E-01	1.0337E+00	166.0	6.5594E+00	2.9946E+00
46.0	1.0249E+00	1.0018E+00	108.0	8.5159E-01	1.0317E+00	168.0	1.1872E+01	1.0328E+01
48.0	9.9902E-01	1.0028E+00	110.0	1.1652E+00	1.0411E+00	170.0	5.9118E+00	1.4564E+01
50.0	9.7176E-01	1.0018E+00	112.0	1.0630E+00	1.0509E+00	172.0	7.2250E+00	4.7410E+00
52.0	9.8878E-01	1.0005E+00	114.0	7.2594E-01	1.0505E+00	174.0	8.7251E+01	5.0586E+01
54.0	1.0268E+00	1.0014E+00	116.0	9.6302E-01	1.0557E+00	176.0	3.0794E+02	2.5895E+02
56.0	1.0218E+00	1.0035E+00	118.0	1.2625E+00	1.0701E+00	178.0	5.9112E+02	5.6900E+02
58.0	9.7546E-01	1.0036E+00	120.0	8.6002E-01	1.0780E+00	180.0	7.2568E+02	7.2568E+02
60.0	9.6482E-01	1.0017E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

$\kappa A = 26.8$

ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE
0.0	1.0031E+00	1.0031E+00	62.0	9.8424E-01	1.0013E+00	122.0	6.2620E-01	1.0838E+00
2.0	1.0035E+00	1.0034E+00	64.0	1.0372E+00	1.0027E+00	124.0	1.0971E+00	1.0969E+00
4.0	1.0032E+00	1.0035E+00	66.0	1.0235E+00	1.0052E+00	126.0	1.2962E+00	1.1113E+00
6.0	9.9940E-01	1.0035E+00	68.0	9.5823E-01	1.0048E+00	128.0	6.4195E-01	1.1275E+00
8.0	9.9340E-01	1.0018E+00	70.0	9.6415E-01	1.0027E+00	130.0	7.3295E-01	1.1489E+00
10.0	9.9144E-01	9.9958E-01	72.0	1.0386E+00	1.0037E+00	132.0	1.4559E+00	1.1605E+00
12.0	9.9819E-01	9.9810E-01	74.0	1.0391E+00	1.0072E+00	134.0	9.7164E-01	1.1849E+00
14.0	1.0093E+00	9.9910E-01	76.0	9.5206E-01	1.0073E+00	136.0	3.8471E-01	1.2368E+00
16.0	1.0133E+00	1.0010E+00	78.0	9.4566E-01	1.0046E+00	138.0	1.2870E+00	1.2494E+00
18.0	1.0039E+00	1.0022E+00	80.0	1.0452E+00	1.0059E+00	140.0	1.5000E+00	1.2607E+00
20.0	9.8968E-01	1.0017E+00	82.0	1.0513E+00	1.0104E+00	142.0	3.4172E-01	1.3727E+00
22.0	9.8414E-01	9.9999E-01	84.0	9.3426E-01	1.0105E+00	144.0	7.8309E-01	1.4241E+00
24.0	9.9742E-01	9.9893E-01	86.0	9.3208E-01	1.0075E+00	146.0	1.9649E+00	1.3773E+00
26.0	1.0152E+00	9.9975E-01	88.0	1.0667E+00	1.0101E+00	148.0	8.5145E-01	1.5699E+00
28.0	1.0164E+00	1.0014E+00	90.0	1.0534E+00	1.0158E+00	150.0	1.8261E-01	1.7768E+00
30.0	9.3788E-01	1.0020E+00	92.0	8.9669E-01	1.0150E+00	152.0	2.0454E+00	1.6070E+00
32.0	9.8205E-01	1.0010E+00	94.0	9.3433E-01	1.0122E+00	154.0	2.0542E+00	1.8490E+00
34.0	9.9007E-01	9.9980E-01	96.0	1.1080E+00	1.0177E+00	156.0	9.1904E-02	2.5220E+00
36.0	1.0122E+00	1.0001E+00	98.0	1.0263E+00	1.0239E+00	158.0	1.4914E+00	2.1906E+00
38.0	1.0172E+00	1.0015E+00	100.0	8.3956E-01	1.0213E+00	160.0	3.9437E+00	2.2516E+00
40.0	9.9542E-01	1.0022E+00	102.0	9.7817E-01	1.0212E+00	162.0	2.0404E+00	4.3050E+00
42.0	9.7742E-01	1.0011E+00	104.0	1.1554E+00	1.0307E+00	164.0	6.5027E-01	4.1568E+00
44.0	9.9285E-01	1.0006E+00	106.0	9.3799E-01	1.0353E+00	166.0	6.1960E+00	2.8954E+00
46.0	1.0221E+00	1.0008E+00	108.0	7.9479E-01	1.0322E+00	168.0	1.2012E+01	1.0005E+01
48.0	1.0192E+00	1.0025E+00	110.0	1.0924E+00	1.0385E+00	170.0	6.4021E+00	1.4939E+01
50.0	9.8405E-01	1.0027E+00	112.0	1.1503E+00	1.0504E+00	172.0	6.5343E+00	4.8495E+00
52.0	9.7116E-01	1.0012E+00	114.0	7.7528E-01	1.0520E+00	174.0	8.5071E+01	4.8744E+01
54.0	1.0053E+00	1.0007E+00	116.0	8.4878E-01	1.0544E+00	176.0	3.0816E+02	2.5847E+02
56.0	1.0323E+00	1.0024E+00	118.0	1.2530E+00	1.0681E+00	178.0	5.9804E+02	5.7630E+02
58.0	1.0019E+00	1.0039E+00	120.0	9.8924E-01	1.0783E+00	180.0	7.3651E+02	7.3651E+02
60.0	9.6108E-01	1.0028E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=27.0

NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION	
E-PLANE		E-PLANE		E-PLANE		E-PLANE	
ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE
0.0	9.7835E-01	62.0	9.6275E-01	122.0	6.3559E-01	122.0	1.0838E+00
2.0	9.8660E-01	64.0	1.0138E+00	124.0	9.5705E-01	124.0	1.0956E+00
4.0	1.0046E+00	66.0	1.0422E+00	126.0	1.3525E+00	126.0	1.1103E+00
6.0	1.0175E+00	68.0	9.8762E-01	128.0	7.6676E-01	128.0	1.1257E+00
8.0	1.0149E+00	70.0	9.4623E-01	130.0	6.0888E-01	130.0	1.1482E+00
10.0	1.0006E+00	72.0	1.0037E+00	132.0	1.3834E+00	132.0	1.1614E+00
12.0	9.8896E-01	74.0	1.0032E+00	134.0	1.1430E+00	134.0	1.1804E+00
14.0	9.9098E-01	76.0	9.9102E-01	136.0	3.7114E-01	136.0	1.2332E+00
16.0	1.0031E+00	78.0	9.2805E-01	138.0	1.1084E+00	138.0	1.2551E+00
18.0	1.0109E+00	80.0	1.0017E+00	140.0	1.6097E+00	140.0	1.2560E+00
20.0	1.0047E+00	82.0	1.0718E+00	142.0	4.7033E-01	142.0	1.3598E+00
22.0	9.9160E-01	84.0	9.8147E-01	144.0	5.9223E-01	144.0	1.4347E+00
24.0	9.8891E-01	86.0	9.0596E-01	146.0	1.9212E+00	146.0	1.3801E+00
26.0	1.0022E+00	88.0	1.0175E+00	148.0	1.0680E+00	148.0	1.5404E+00
28.0	1.0158E+00	90.0	1.0891E+00	150.0	9.6628E-02	150.0	1.7860E+00
30.0	1.0103E+00	92.0	9.4634E-01	152.0	1.8511E+00	152.0	1.6318E+00
32.0	9.8972E-01	94.0	8.8673E-01	154.0	2.2324E+00	154.0	1.7965E+00
34.0	9.8039E-01	96.0	1.0630E+00	156.0	1.9080E-01	156.0	2.5107E+00
36.0	9.9709E-01	98.0	1.0895E+00	158.0	1.2405E+00	158.0	2.2619E+00
38.0	1.0190E+00	100.0	8.7432E-01	160.0	3.9209E+00	160.0	2.1756E+00
40.0	1.0143E+00	102.0	8.9935E-01	162.0	2.3041E+00	162.0	4.2206E+00
42.0	9.8754E-01	104.0	1.1397E+00	164.0	5.6045E-01	164.0	4.3207E+00
44.0	9.7854E-01	106.0	1.0300E+00	166.0	5.8245E+00	166.0	2.8211E+00
46.0	1.0040E+00	108.0	7.8210E-01	168.0	1.2113E+01	168.0	9.6667E+00
48.0	1.0258E+00	110.0	9.9534E-01	170.0	6.9064E+00	170.0	1.5291E+01
50.0	1.0056E+00	112.0	1.1997E+00	172.0	5.8990E+00	172.0	5.0022E+00
52.0	9.7149E-01	114.0	8.6325E-01	174.0	8.2881E+01	174.0	4.6920E+01
54.0	9.8095E-01	116.0	7.5920E-01	176.0	3.0831E+02	176.0	2.5792E+02
56.0	1.0233E+00	118.0	1.1936E+00	178.0	6.0496E+02	178.0	5.8271E+02
58.0	1.0263E+00	120.0	1.1132E+00	180.0	7.4742E+02	180.0	7.4742E+02
60.0	9.7865E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=27.2

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.7577E-01	9.7577E-01	62.0	9.6092E-01	1.0031E+00	122.0	6.9627E-01	1.0840E+00			
2.0	9.8362E-01	9.7839E-01	64.0	9.8244E-01	1.0015E+00	124.0	8.1990E-01	1.0944E+00			
4.0	1.0022E+00	9.8527E-01	66.0	1.0385E+00	1.0029E+00	126.0	1.3552E+00	1.1093E+00			
6.0	1.0189E+00	9.9383E-01	68.0	1.0212E+00	1.0056E+00	128.0	9.1475E-01	1.1240E+00			
8.0	1.0218E+00	1.0009E+00	70.0	9.5358E-01	1.0050E+00	130.0	5.2752E-01	1.1469E+00			
10.0	1.0085E+00	1.0041E+00	72.0	9.6651E-01	1.0029E+00	132.0	1.2661E+00	1.1627E+00			
12.0	9.8991E-01	1.0032E+00	74.0	1.0448E+00	1.0044E+00	134.0	1.2947E+00	1.1769E+00			
14.0	9.8196E-01	1.0005E+00	76.0	1.0317E+00	1.0078E+00	136.0	4.1221E-01	1.2281E+00			
16.0	9.9167E-01	9.9849E-01	78.0	9.4017E-01	1.0073E+00	138.0	9.2042E-01	1.2602E+00			
18.0	1.0094E+00	9.9892E-01	80.0	9.5666E-01	1.0048E+00	140.0	1.6711E+00	1.2541E+00			
20.0	1.0166E+00	1.0006E+00	82.0	1.0611E+00	1.0075E+00	142.0	6.3388E-01	1.3456E+00			
22.0	1.0055E+00	1.0019E+00	84.0	1.0327E+00	1.0115E+00	144.0	4.2928E-01	1.4424E+00			
24.0	9.8903E-01	1.0014E+00	86.0	9.1315E-01	1.0103E+00	146.0	1.8456E+00	1.3875E+00			
26.0	9.8740E-01	1.0000E+00	88.0	9.6028E-01	1.0090E+00	148.0	1.2837E+00	1.5115E+00			
28.0	1.0028E+00	9.9959E-01	90.0	1.0903E+00	1.0125E+00	150.0	5.5803E-02	1.7886E+00			
30.0	1.0143E+00	1.0007E+00	92.0	1.0098E+00	1.0172E+00	152.0	1.6428E+00	1.6614E+00			
32.0	1.0057E+00	1.0018E+00	94.0	8.7288E-01	1.0145E+00	154.0	2.3805E+00	1.7493E+00			
34.0	9.8622E-01	1.0014E+00	96.0	9.9591E-01	1.0140E+00	156.0	3.2349E-01	2.4886E+00			
36.0	9.8476E-01	1.0001E+00	98.0	1.1215E+00	1.0216E+00	158.0	1.0019E+00	2.3355E+00			
38.0	1.0068E+00	9.9934E-01	100.0	9.3996E-01	1.0249E+00	160.0	3.8638E+00	2.1127E+00			
40.0	1.0220E+00	1.0012E+00	102.0	8.4484E-01	1.0212E+00	162.0	2.5604E+00	4.1225E+00			
42.0	1.0052E+00	1.0023E+00	104.0	1.0841E+00	1.0257E+00	164.0	5.0263E-01	4.4787E+00			
44.0	9.7847E-01	1.0017E+00	106.0	1.1087E+00	1.0355E+00	166.0	5.4479E+00	2.7717E+00			
46.0	9.8341E-01	1.0004E+00	108.0	8.1568E-01	1.0355E+00	168.0	1.2180E+01	9.3169E+00			
48.0	1.0154E+00	1.0006E+00	110.0	8.9598E-01	1.0352E+00	170.0	7.4218E+00	1.5617E+01			
50.0	1.0230E+00	1.0023E+00	112.0	1.2016E+00	1.0467E+00	172.0	5.3192E+00	5.1977E+00			
52.0	9.8939E-01	1.0029E+00	114.0	9.7197E-01	1.0544E+00	174.0	8.0663E+01	4.5114E+01			
54.0	9.6855E-01	1.0015E+00	116.0	7.1078E-01	1.0543E+00	176.0	3.0838E+02	2.5729E+02			
56.0	1.0005E+00	1.0007E+00	118.0	1.0958E+00	1.0637E+00	178.0	6.1188E+02	5.8910E+02			
58.0	1.0343E+00	1.0024E+00	120.0	1.2114E+00	1.0774E+00	180.0	7.5840E+02	7.5840E+02			
60.0	1.0068E+00	1.0041E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=27.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.9723E-01	9.9723E-01	62.0	9.7932E-01	1.0041E+00	122.0	7.9814E-01	1.0842E+00
2.0	9.9689E-01	9.9695E-01	64.0	9.6005E-01	1.0022E+00	124.0	7.0549E-01	1.0935E+00
4.0	9.9783E-01	9.9665E-01	66.0	1.0140E+00	1.0019E+00	126.0	1.3046E+00	1.1084E+00
6.0	1.0024E+00	9.9734E-01	68.0	1.0424E+00	1.0046E+00	128.0	1.0669E+00	1.1224E+00
8.0	1.0081E+00	9.9927E-01	70.0	9.8232E-01	1.0059E+00	130.0	4.9787E-01	1.1451E+00
10.0	1.0086E+00	1.0014E+00	72.0	9.4488E-01	1.0038E+00	132.0	1.1173E+00	1.1640E+00
12.0	1.0007E+00	1.0024E+00	74.0	1.0125E+00	1.0033E+00	134.0	1.4119E+00	1.1748E+00
14.0	9.9027E-01	1.0014E+00	76.0	1.0559E+00	1.0087E+00	136.0	5.0355E-01	1.2219E+00
16.0	9.8860E-01	9.9960E-01	78.0	9.7607E-01	1.0083E+00	138.0	7.3875E-01	1.2643E+00
18.0	9.9998E-01	9.9876E-01	80.0	9.2870E-01	1.0058E+00	140.0	1.6798E+00	1.2549E+00
20.0	1.0138E+00	9.9969E-01	82.0	1.0239E+00	1.0058E+00	142.0	8.2076E-01	1.3308E+00
22.0	1.0139E+00	1.0014E+00	84.0	1.0679E+00	1.0105E+00	144.0	3.0865E-01	1.4465E+00
24.0	9.9788E-01	1.0020E+00	86.0	9.5013E-01	1.0118E+00	146.0	1.7188E+00	1.3987E+00
26.0	9.8342E-01	1.0010E+00	88.0	9.1578E-01	1.0086E+00	148.0	1.4880E+00	1.4844E+00
28.0	9.8873E-01	9.9959E-01	90.0	1.0572E+00	1.0105E+00	150.0	6.1372E-02	1.7844E+00
30.0	1.0086E+00	2.9962E-01	92.0	1.0658E+00	1.0167E+00	152.0	1.4165E+00	1.6945E+00
32.0	1.0174E+00	1.0010E+00	94.0	8.9674E-01	1.0153E+00	154.0	2.4939E+00	1.7086E+00
34.0	1.0022E+00	1.0019E+00	96.0	9.2783E-01	1.0135E+00	156.0	4.8602E-01	2.4564E+00
36.0	9.8348E-01	1.0012E+00	98.0	1.1135E+00	1.0194E+00	158.0	7.8070E-01	2.4094E+00
38.0	9.8953E-01	1.0000E+00	100.0	1.0176E+00	1.0256E+00	160.0	3.7735E+00	2.0637E+00
40.0	1.0135E+00	1.0003E+00	102.0	8.2905E-01	1.0227E+00	162.0	2.8134E+00	4.0123E+00
42.0	1.0185E+00	1.0018E+00	104.0	1.0037E+00	1.0238E+00	164.0	4.7683E-01	4.6289E+00
44.0	9.9286E-01	1.0023E+00	106.0	1.1552E+00	1.0341E+00	166.0	5.0689E+00	2.7472E+00
46.0	9.7443E-01	1.0012E+00	108.0	8.8711E-01	1.0372E+00	168.0	1.2213E+01	8.9578E+00
48.0	9.9548E-01	1.0002E+00	110.0	8.1644E-01	1.0350E+00	170.0	7.9458E+00	1.5916E+01
50.0	1.0255E+00	1.0013E+00	112.0	1.1564E+00	1.0442E+00	172.0	4.7948E+00	5.4343E+00
52.0	1.0131E+00	1.0029E+00	114.0	1.0797E+00	1.0547E+00	174.0	7.8479E+01	4.3330E+01
54.0	9.7486E-01	1.0026E+00	116.0	7.1206E-01	1.0552E+00	176.0	3.0837E+02	2.5660E+02
56.0	9.7716E-01	1.0010E+00	118.0	9.7712E-01	1.0618E+00	178.0	6.1879E+02	5.9548E+02
58.0	1.0215E+00	1.0013E+00	120.0	1.2680E+00	1.0763E+00	180.0	7.6948E+02	7.8948E+02
60.0	1.0294E+00	1.0035E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=27.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0213E+00	1.0213E+00	62.0	1.0078E+00	1.0043E+00	122.0	9.2477E-01	1.0844E+00
2.0	1.0130E+00	1.0183E+00	64.0	9.5865E-01	1.0033E+00	124.0	6.3011E-01	1.0928E+00
4.0	9.9554E-01	1.0111E+00	66.0	9.8210E-01	1.0017E+00	126.0	1.2083E+00	1.1075E+00
6.0	9.8413E-01	1.0034E+00	68.0	1.0410E+00	1.0033E+00	128.0	1.2040E+00	1.1211E+00
8.0	9.8789E-01	9.9855E-01	70.0	1.0180E+00	1.0059E+00	130.0	5.2272E-01	1.1429E+00
10.0	1.0018E+00	9.9787E-01	72.0	9.4853E-01	1.0051E+00	132.0	9.5321E-01	1.1650E+00
12.0	1.0016E+00	9.9977E-01	74.0	9.7373E-01	1.0031E+00	134.0	1.4832E+00	1.1735E+00
14.0	1.0076E+00	1.0015E+00	76.0	1.0531E+00	1.0052E+00	136.0	6.3624E-01	1.2151E+00
16.0	9.9549E-01	1.0015E+00	78.0	1.0196E+00	1.0085E+00	138.0	5.7836E-01	1.2668E+00
18.0	9.9041E-01	1.0002E+00	80.0	9.2887E-01	1.0072E+00	140.0	1.6356E+00	1.2582E+00
20.0	9.9904E-01	9.9941E-01	82.0	9.7568E-01	1.0052E+00	142.0	1.0179E+00	1.3164E+00
22.0	1.0105E+00	1.0001E+00	84.0	1.0736E+00	1.0088E+00	144.0	2.2327E-01	1.4467E+00
24.0	1.0087E+00	1.0014E+00	86.0	1.0025E+00	1.0124E+00	146.0	1.5561E+00	1.4128E+00
26.0	9.9370E-01	1.0016E+00	88.0	8.9983E-01	1.0100E+00	148.0	1.6709E+00	1.4604E+00
28.0	9.8470E-01	1.0004E+00	90.0	1.0021E+00	1.0052E+00	150.0	1.1262E-01	1.7736E+00
30.0	9.9614E-01	9.9948E-01	92.0	1.0957E+00	1.0152E+00	152.0	1.1843E+00	1.7294E+00
32.0	1.0153E+00	1.0001E+00	94.0	9.5016E-01	1.0178E+00	154.0	2.5892E-00	1.6755E+00
34.0	1.0155E+00	1.0015E+00	96.0	8.7988E-01	1.0142E+00	156.0	6.7355E-01	2.4149E+00
36.0	9.9372E-01	1.0019E+00	98.0	1.0687E+00	1.0171E+00	158.0	5.8144E-01	2.4814E+00
38.0	9.7995E-01	1.0008E+00	100.0	1.0853E+00	1.0251E+00	160.0	3.6517E+00	2.0291E+00
40.0	9.9568E-01	9.9991E-01	102.0	8.5567E-01	1.0246E+00	162.0	3.0892E+00	3.8916E+00
42.0	1.0189E+00	1.0007E+00	104.0	9.1948E-01	1.0229E+00	164.0	4.8274E-01	4.7692E+00
44.0	1.0120E+00	1.0022E+00	106.0	1.1586E+00	1.0318E+00	166.0	4.6805E+00	2.7471E+00
46.0	9.8275E-01	1.0020E+00	108.0	9.7918E-01	1.0383E+00	168.0	1.2212E+01	8.5913E+00
48.0	9.7893E-01	1.0006E+00	110.0	7.7396E-01	1.0358E+00	170.0	8.4755E+00	1.8187E+01
50.0	1.0114E+00	1.0005E+00	112.0	1.0741E+00	1.0418E+00	172.0	4.3258E+00	5.7105E+00
52.0	1.0275E+00	1.0022E+00	114.0	1.1649E+00	1.0541E+00	174.0	7.6272E+01	4.1570E+01
54.0	9.9526E-01	1.0032E+00	116.0	7.6203E-01	1.0546E+00	176.0	3.0828E+02	2.5583E+02
56.0	9.6689E-01	1.0019E+00	118.0	8.5888E-01	1.0604E+00	178.0	6.2571E+02	6.0186E+02
58.0	9.9577E-01	1.0009E+00	120.0	1.2741E+00	1.0746E+00	180.0	7.8063E+02	7.8063E+02
60.0	1.0342E+00	1.0024E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=27.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0245E+00	1.0245E+00	62.0	1.0308E+00	1.0037E+00	122.0	1.0551E+00	1.0843E+00
2.0	1.0163E+00	1.0218E+00	64.0	9.7857E-01	1.0043E+00	124.0	6.0426E-01	1.0923E+00
4.0	9.9769E-01	1.0147E+00	66.0	9.5938E-01	1.0024E+00	126.0	1.0796E+00	1.1066E+00
6.0	9.8181E-01	1.0061E+00	68.0	1.0181E+00	1.0029E+00	128.0	1.3087E+00	1.1201E+00
8.0	9.6049E-01	9.9940E-01	70.0	1.0428E+00	1.0051E+00	130.0	5.9854E-01	1.1404E+00
10.0	9.9463E-01	9.9675E-01	72.0	9.7490E-01	1.0061E+00	132.0	7.9175E-01	1.1655E+00
12.0	1.0123E+00	9.9797E-01	74.0	9.4617E-01	1.0038E+00	134.0	1.5019E+00	1.1737E+00
14.0	1.0175E+00	1.0008E+00	76.0	1.0250E+00	1.0039E+00	136.0	7.9773E-01	1.2082E+00
16.0	1.0055E+00	1.0024E+00	78.0	1.0518E+00	1.0077E+00	138.0	4.5237E-01	1.2673E+00
18.0	9.8995E-01	1.0017E+00	80.0	9.5658E-01	1.0085E+00	140.0	1.5424E+00	1.2635E+00
20.0	9.8580E-01	9.9944E-01	82.0	9.3608E-01	1.0057E+00	142.0	1.2117E+00	1.3033E+00
22.0	9.9929E-01	9.9917E-01	84.0	1.0485E+00	1.0071E+00	144.0	1.9193E-01	1.4429E+00
24.0	1.0130E+00	1.0001E+00	86.0	1.0506E+00	1.0120E+00	146.0	1.3667E+00	1.4289E+00
26.0	1.0093E+00	1.0014E+00	88.0	9.1785E-01	1.0116E+00	148.0	1.8238E+00	1.4404E+00
28.0	9.9290E-01	1.0014E+00	90.0	9.4466E-01	1.0089E+00	150.0	2.0690E-01	1.7564E+00
30.0	9.8667E-01	1.0003E+00	92.0	1.0904E+00	1.0132E+00	152.0	9.5475E-01	1.7647E+00
32.0	1.0011E+00	9.9971E-01	94.0	1.0156E+00	1.0185E+00	154.0	2.5041E+00	1.6509E+00
34.0	1.0164E+00	1.0006E+00	96.0	8.6649E-01	1.0157E+00	156.0	8.8104E-01	2.3654E+00
36.0	1.0082E+00	1.0018E+00	98.0	1.0010E+00	1.0155E+00	158.0	4.0825E-01	2.5499E+00
38.0	9.9514E-01	1.0016E+00	100.0	1.1240E+00	1.0236E+00	160.0	3.5008E+00	2.0094E+00
40.0	9.8182E-01	1.0003E+00	102.0	9.1679E-01	1.0263E+00	162.0	3.2942E+00	3.7624E+00
42.0	1.0065E+00	1.0000E+00	104.0	8.5319E-01	1.0230E+00	164.0	5.1970E-01	4.8977E+00
44.0	1.0225E+00	1.0014E+00	106.0	1.1188E+00	1.0295E+00	166.0	4.3158E+00	2.7709E+00
46.0	1.0019E+00	1.0024E+00	108.0	1.0701E+00	1.0385E+00	168.0	1.2177E+01	8.2202E+00
48.0	9.7582E-01	1.0016E+00	110.0	7.7730E-01	1.0372E+00	170.0	9.0082E+00	1.6429E+01
50.0	9.8970E-01	1.0004E+00	112.0	9.7261E-01	1.0399E+00	172.0	3.9122E+00	6.0245E+00
52.0	1.0237E+00	1.0012E+00	114.0	1.2112E+00	1.0526E+00	174.0	7.4065E+01	3.9834E+01
54.0	1.0173E+00	1.0030E+00	116.0	8.5060E-01	1.0576E+00	176.0	3.0811E+02	2.5499E+02
56.0	9.7574E-01	1.0029E+00	118.0	7.6182E-01	1.0597E+00	178.0	6.3261E+02	6.0822E+02
58.0	9.7261E-01	1.0012E+00	120.0	1.2294E+00	1.0726E+00	180.0	7.9185E+02	7.9185E+02
60.0	1.0193E+00	1.0014E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=28.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0044E+00	1.0044E+00	62.0	1.0359E+00	1.0020E+00	122.0	1.1718E+00	1.0839E+00	122.0	1.1718E+00	1.0839E+00
2.0	1.0042E+00	1.0045E+00	64.0	1.0085E+00	1.0045E+00	124.0	6.3097E-01	1.0919E+00	124.0	6.3097E-01	1.0919E+00
4.0	1.0024E+00	1.0044E+00	66.0	9.5897E-01	1.0035E+00	126.0	9.3667E-01	1.1056E+00	126.0	9.3667E-01	1.1056E+00
6.0	9.9753E-01	1.0033E+00	68.0	9.8525E-01	1.0020E+00	128.0	1.3685E+00	1.1194E+00	128.0	1.3685E+00	1.1194E+00
8.0	9.9224E-01	1.0011E+00	70.0	1.0448E+00	1.0038E+00	130.0	7.1594E-01	1.1379E+00	130.0	7.1594E-01	1.1379E+00
10.0	9.9289E-01	9.9907E-01	72.0	1.0110E+00	1.0063E+00	132.0	6.5038E-01	1.1653E+00	132.0	6.5038E-01	1.1653E+00
12.0	1.0017E+00	9.9848E-01	74.0	9.4225E-01	1.0051E+00	134.0	1.4688E+00	1.1749E+00	134.0	1.4688E+00	1.1749E+00
14.0	1.0113E+00	9.9970E-01	76.0	9.8474E-01	1.0034E+00	136.0	9.7300E-01	1.2018E+00	136.0	9.7300E-01	1.2018E+00
16.0	1.0103E+00	1.0015E+00	78.0	1.0594E+00	1.0063E+00	138.0	3.7091E-01	1.2657E+00	138.0	3.7091E-01	1.2657E+00
18.0	9.9745E-01	1.0020E+00	80.0	9.9999E-01	1.0091E+00	140.0	1.4075E+00	1.2701E+00	140.0	1.4075E+00	1.2701E+00
20.0	9.8583E-01	1.0008E+00	82.0	9.2106E-01	1.0070E+00	142.0	1.3890E+00	1.2921E+00	142.0	1.3890E+00	1.2921E+00
22.0	9.8991E-01	9.9937E-01	84.0	1.0030E+00	1.0060E+00	144.0	2.1133E-01	1.4353E+00	144.0	2.1133E-01	1.4353E+00
24.0	1.0070E+00	9.9926E-01	86.0	1.0766E+00	1.0107E+00	146.0	1.1609E+00	1.4458E+00	146.0	1.1609E+00	1.4458E+00
26.0	1.0169E+00	1.0005E+00	88.0	9.6276E-01	1.0129E+00	148.0	1.9393E+00	1.4253E+00	148.0	1.9393E+00	1.4253E+00
28.0	1.0059E+00	1.0018E+00	90.0	9.0491E-01	1.0096E+00	150.0	3.3977E-01	1.7337E+00	150.0	3.3977E-01	1.7337E+00
30.0	9.8725E-01	1.0013E+00	92.0	1.0522E+00	1.0113E+00	152.0	7.3625E-01	1.7988E+00	152.0	7.3625E-01	1.7988E+00
32.0	9.8630E-01	1.0001E+00	94.0	1.0717E+00	1.0178E+00	154.0	2.5976E+00	1.6352E+00	154.0	2.5976E+00	1.6352E+00
34.0	1.0053E+00	9.9933E-01	96.0	8.9106E-01	1.0175E+00	156.0	1.1023E+00	2.3091E+00	156.0	1.1023E+00	2.3091E+00
36.0	1.0167E+00	1.0010E+00	98.0	9.3065E-01	1.0149E+00	158.0	2.6422E-01	2.6129E+00	158.0	2.6422E-01	2.6129E+00
38.0	1.0014E+00	1.0019E+00	100.0	1.1234E+00	1.0215E+00	160.0	3.3235E+00	2.0043E+00	160.0	3.3235E+00	2.0043E+00
40.0	9.8137E-01	1.0012E+00	102.0	9.9527E-01	1.0273E+00	162.0	3.5149E+00	3.6267E+00	162.0	3.5149E+00	3.6267E+00
42.0	9.8996E-01	1.0001E+00	104.0	8.2146E-01	1.0241E+00	164.0	5.8674E-01	5.0128E+00	164.0	5.8674E-01	5.0128E+00
44.0	1.0172E+00	1.0005E+00	106.0	1.0461E+00	1.0272E+00	166.0	3.9475E+00	2.8177E+00	166.0	3.9475E+00	2.8177E+00
46.0	1.0187E+00	1.0021E+00	108.0	1.1386E+00	1.0377E+00	168.0	1.2109E+01	7.8469E+00	168.0	1.2109E+01	7.8469E+00
48.0	9.8768E-01	1.0024E+00	110.0	8.2502E-01	1.0389E+00	170.0	9.5412E+00	1.6840E+01	170.0	9.5412E+00	1.6840E+01
50.0	9.7447E-01	1.0010E+00	112.0	8.7336E-01	1.0386E+00	172.0	3.5537E+00	6.3745E+00	172.0	3.5537E+00	6.3745E+00
52.0	1.0030E+00	1.0005E+00	114.0	1.2098E+00	1.0506E+00	174.0	7.1860E+01	3.8126E+01	174.0	7.1860E+01	3.8126E+01
54.0	1.0280E+00	1.0021E+00	116.0	9.6070E-01	1.0585E+00	176.0	3.0787E+02	2.5409E+02	176.0	3.0787E+02	2.5409E+02
56.0	9.9838E-01	1.0033E+00	118.0	7.0280E-01	1.0597E+00	178.0	6.3951E+02	6.1456E+02	178.0	6.3951E+02	6.1456E+02
58.0	9.6542E-01	1.0022E+00	120.0	1.1418E+00	1.0708E+00	180.0	8.0316E+02	8.0316E+02	180.0	8.0316E+02	8.0316E+02
60.0	9.9357E-01	1.0010E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=28.2

NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE
ANGLE	E-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE	
0.0	9.8107E-01	62.0	1.0203E+00	1.0016E+00	122.0	1.2541E+00	1.0831E+00	
2.0	9.8896E-01	64.0	1.0320E+00	1.0036E+00	124.0	7.0592E-01	1.0916E+00	
4.0	1.0055E+00	66.0	9.7554E-01	1.0045E+00	126.0	7.9895E-01	1.1047E+00	
6.0	1.0159E+00	68.0	9.5288E-01	1.0025E+00	128.0	1.3762E+00	1.1188E+00	
8.0	1.0110E+00	70.0	1.0236E+00	1.0027E+00	130.0	8.6070E-01	1.1354E+00	
10.0	9.9733E-01	72.0	1.0398E+00	1.0057E+00	132.0	5.4416E-01	1.1643E+00	
12.0	9.8956E-01	74.0	9.6353E-01	1.0063E+00	134.0	1.3818E+00	1.1768E+00	
14.0	9.9531E-01	76.0	9.5067E-01	1.0038E+00	136.0	1.1459E+00	1.1963E+00	
16.0	1.0066E+00	78.0	1.0398E+00	1.0048E+00	138.0	3.4030E-01	1.2621E+00	
18.0	1.0088E+00	80.0	1.0408E+00	1.0087E+00	140.0	1.2416E+00	1.2774E+00	
20.0	9.9860E-01	82.0	9.3621E-01	1.0084E+00	142.0	1.5375E+00	1.2836E+00	
22.0	9.8942E-01	84.0	9.5515E-01	1.0059E+00	144.0	2.7975E-01	1.4243E+00	
24.0	9.9523E-01	86.0	1.0712E+00	1.0089E+00	146.0	9.5019E-01	1.4623E+00	
26.0	1.0102E+00	88.0	1.0177E+00	1.0132E+00	148.0	2.0119E+00	1.4154E+00	
28.0	1.0135E+00	90.0	8.9616E-01	1.0111E+00	150.0	5.0517E-01	1.7064E+00	
30.0	9.9772E-01	92.0	9.9423E-01	1.0101E+00	152.0	5.3659E-01	1.8302E+00	
32.0	9.8278E-01	94.0	1.1007E+00	1.0163E+00	154.0	2.5502E+00	1.6286E+00	
34.0	9.9118E-01	96.0	9.4529E-01	1.0189E+00	156.0	1.3312E+00	2.2477E+00	
36.0	1.0132E+00	98.0	8.7831E-01	1.0154E+00	158.0	1.5336E-01	2.6689E+00	
38.0	1.0163E+00	100.0	1.0842E+00	1.0193E+00	160.0	3.1230E+00	2.0136E+00	
40.0	9.9371E-01	102.0	1.0697E+00	1.0273E+00	162.0	3.7178E+00	3.4866E+00	
42.0	9.8013E-01	104.0	8.3192E-01	1.0258E+00	164.0	6.8257E-01	5.1131E+00	
44.0	9.9973E-01	106.0	9.5881E-01	1.0257E+00	166.0	3.5893E+00	2.8666E+00	
46.0	1.0221E+00	108.0	1.1692E+00	1.0360E+00	168.0	1.2007E+01	7.4738E+00	
48.0	1.0068E+00	110.0	9.0599E-01	1.0404E+00	170.0	1.0072E+01	1.6819E+01	
50.0	9.7560E-01	112.0	7.9723E-01	1.0387E+00	172.0	3.2497E+00	6.7586E+00	
52.0	9.8358E-01	114.0	1.1618E+00	1.0483E+00	174.0	6.9658E+01	3.6448E+01	
54.0	1.0215E+00	116.0	1.0715E+00	1.0588E+00	176.0	3.0755E+02	2.5311E+02	
56.0	1.0211E+00	118.0	6.9181E-01	1.0602E+00	178.0	6.4641E+02	6.2090E+02	
58.0	9.7771E-01	120.0	1.0287E+00	1.0690E+00	180.0	8.1455E+02	8.1455E+02	
60.0	9.7126E-01							

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=28.4

NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE
E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE	
0.0	9.7717E-01	0.0	9.7717E-01	9.7717E-01	62.0	9.9294E-01	1.0012E+00	122.0	1.2905E+00	1.0819E+00	122.0
2.0	9.8528E-01	2.0	9.7989E-01	9.7989E-01	64.0	1.0370E+00	1.0028E+00	124.0	6.1754E-01	1.0914E+00	124.0
4.0	1.0038E+00	4.0	9.8693E-01	9.8693E-01	66.0	1.0033E+00	1.0048E+00	126.0	6.8508E-01	1.1037E+00	126.0
6.0	1.0190E+00	6.0	9.9533E-01	9.9533E-01	68.0	9.5330E-01	1.0036E+00	128.0	1.3314E+00	1.1184E+00	128.0
8.0	1.0188E+00	8.0	1.0017E+00	1.0017E+00	70.0	9.9041E-01	1.0022E+00	130.0	1.0155E+00	1.1332E+00	130.0
10.0	1.0037E+00	10.0	1.0038E+00	1.0038E+00	72.0	1.0481E-01	1.0045E+00	132.0	4.8412E-01	1.1625E+00	132.0
12.0	9.8725E-01	12.0	1.0023E+00	1.0023E+00	74.0	9.9933E-01	1.0067E+00	134.0	1.2560E+00	1.1791E+00	134.0
14.0	9.8478E-01	14.0	9.9966E-01	9.9966E-01	76.0	9.3784E-01	1.0049E+00	136.0	1.3005E+00	1.1920E+00	136.0
16.0	9.9826E-01	16.0	9.9850E-01	9.9850E-01	78.0	1.0019E+00	1.0039E+00	138.0	3.6251E-01	1.2567E+00	138.0
18.0	1.0130E+00	18.0	9.9953E-01	9.9953E-01	80.0	1.0621E+00	1.0075E+00	140.0	1.0573E+00	1.2846E+00	140.0
20.0	1.0123E+00	20.0	1.0012E+00	1.0012E+00	82.0	9.7466E-01	1.0094E+00	142.0	1.6475E+00	1.2782E+00	142.0
22.0	9.9727E-01	22.0	1.0016E+00	1.0016E+00	84.0	9.2344E-01	1.0067E+00	144.0	3.9247E-01	1.4104E+00	144.0
24.0	9.8717E-01	24.0	1.0006E+00	1.0006E+00	86.0	1.0367E-01	1.0074E+00	146.0	7.4593E-01	1.4774E+00	146.0
26.0	9.9536E-01	26.0	9.9962E-01	9.9962E-01	88.0	1.0626E+00	1.0126E+00	148.0	2.0395E+00	1.4112E+00	148.0
28.0	1.0106E+00	28.0	1.0001E+00	1.0001E+00	90.0	9.2079E-01	1.0127E+00	150.0	6.9966E-01	1.6757E+00	150.0
30.0	1.0103E+00	30.0	1.0013E+00	1.0013E+00	92.0	9.3628E-01	1.0099E+00	152.0	3.6286E-01	1.8575E+00	152.0
32.0	9.9306E-01	32.0	1.0015E+00	1.0015E+00	94.0	1.0937E+00	1.0143E+00	154.0	2.4833E+00	1.6311E+00	154.0
34.0	9.8431E-01	34.0	1.0004E+00	1.0004E+00	96.0	1.0121E+00	1.0196E+00	156.0	1.5615E+00	2.1828E+00	156.0
36.0	1.0001E+00	36.0	9.9976E-01	9.9976E-01	98.0	8.5920E-01	1.0168E+00	158.0	7.6518E-02	2.7164E+00	158.0
38.0	1.0186E+00	38.0	1.0007E+00	1.0007E+00	100.0	1.0182E+00	1.0175E+00	160.0	2.9029E+00	2.0368E+00	160.0
40.0	1.0095E+00	40.0	1.0019E+00	1.0019E+00	102.0	1.1203E+00	1.0261E+00	162.0	3.9001E+00	3.3441E+00	162.0
42.0	9.8372E-01	42.0	1.0017E+00	1.0017E+00	104.0	8.8135E-01	1.0276E+00	164.0	8.0559E-01	5.1972E+00	164.0
44.0	9.8264E-01	44.0	1.0004E+00	1.0004E+00	106.0	8.7877E-01	1.0252E+00	166.0	3.2408E+00	2.9763E+00	166.0
46.0	1.0106E+00	46.0	1.0004E+00	1.0004E+00	108.0	1.1556E+00	1.0337E+00	168.0	1.1874E+01	7.1031E+00	168.0
48.0	1.0211E+00	48.0	1.0019E+00	1.0019E+00	110.0	1.0019E+00	1.0413E+00	170.0	1.0598E+01	1.6967E+01	170.0
50.0	9.9214E-01	50.0	1.0025E+00	1.0025E+00	112.0	7.5991E-01	1.0394E+00	172.0	2.9978E+00	7.1749E+00	172.0
52.0	9.7274E-01	52.0	1.0013E+00	1.0013E+00	114.0	1.0775E+00	1.0460E+00	174.0	6.7463E+01	3.4800E+01	174.0
54.0	1.0018E+00	54.0	1.0006E+00	1.0006E+00	116.0	1.1624E+00	1.0583E+00	176.0	3.0715E+02	2.5207E+02	176.0
56.0	1.0302E+00	56.0	1.0021E+00	1.0021E+00	118.0	7.3015E-01	1.0610E+00	178.0	6.5330E+02	6.2722E+02	178.0
58.0	1.0016E+00	58.0	1.0035E+00	1.0035E+00	120.0	9.0343E-01	1.0675E+00	180.0	8.2602E+02	8.2602E+02	180.0
60.0	9.6452E-01	60.0	1.0024E+00	1.0024E+00							

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=28.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.9593E-01	9.9593E-01	62.0	9.6931E-01	1.0016E+00	122.0	1.2761E+00	1.0805E+00
2.0	9.9623E-01	9.9588E-01	64.0	1.0215E+00	1.0018E+00	124.0	9.4903E-01	1.0912E+00
4.0	9.9663E-01	9.9617E-01	66.0	1.0308E+00	1.0042E+00	126.0	6.1015E-01	1.1023E+00
6.0	1.0041E+00	9.9753E-01	68.0	9.7002E-01	1.0046E+00	128.0	1.2403E+00	1.1181E+00
8.0	1.0088E+00	9.9893E-01	70.0	9.6163E-01	1.0026E+00	130.0	1.1621E+00	1.1314E+00
10.0	1.0067E+00	1.0016E+00	72.0	1.0323E+00	1.0032E+00	132.0	4.7621E-01	1.1600E+00
12.0	9.9725E-01	1.0021E+00	74.0	1.0341E+00	1.0063E+00	134.0	1.1020E+00	1.1813E+00
14.0	9.9898E-01	1.0007E+00	76.0	9.5129E-01	1.0062E+00	136.0	1.4221E+00	1.1892E+00
16.0	9.9429E-01	9.9915E-01	78.0	9.6216E-01	1.0039E+00	138.0	4.3512E-01	1.2497E+00
18.0	1.0059E+00	9.9902E-01	80.0	1.0551E+00	1.0090E+00	140.0	8.6871E-01	1.2910E+00
20.0	1.0147E+00	1.0004E+00	82.0	1.0204E+00	1.0096E+00	142.0	1.7114E+00	1.2759E+00
22.0	1.0067E+00	1.0017E+00	84.0	9.1975E-01	1.0051E+00	144.0	5.4210E-01	1.3945E+00
24.0	9.8983E-01	1.0015E+00	86.0	9.8682E-01	1.0055E+00	146.0	5.5916E-01	1.4900E+00
26.0	9.8522E-01	1.0001E+00	88.0	1.0815E+00	1.0111E+00	148.0	2.0179E+00	1.4125E+00
28.0	1.0001E+00	9.9945E-01	90.0	9.6975E-01	1.0138E+00	150.0	9.0207E-01	1.6428E+00
30.0	1.0151E+00	1.0003E+00	92.0	8.9781E-01	1.0107E+00	152.0	2.2116E-01	1.8797E+00
32.0	1.0085E+00	1.0015E+00	94.0	1.0538E+00	1.0124E+00	154.0	2.3399E+00	1.8422E+00
34.0	9.8903E-01	1.0013E+00	96.0	1.0708E+00	1.0191E+00	156.0	1.7867E+00	2.1161E+00
36.0	9.8668E-01	1.0002E+00	98.0	8.7853E-01	1.0185E+00	158.0	3.5408E-02	2.7543E+00
38.0	1.0070E+00	1.0000E+00	100.0	9.4464E-01	1.0166E+00	160.0	2.6671E+00	2.0728E+00
40.0	1.0179E+00	1.0012E+00	102.0	1.1339E+00	1.0242E+00	162.0	4.0590E+00	3.2015E+00
42.0	9.9841E-01	1.0020E+00	104.0	9.5648E-01	1.0289E+00	164.0	9.5300E-01	5.2640E+00
44.0	9.7789E-01	1.0012E+00	106.0	8.2545E-01	1.0257E+00	166.0	2.9075E+00	3.0855E+00
46.0	9.9285E-01	1.0003E+00	108.0	1.1015E+00	1.0314E+00	168.0	1.1709E+01	6.7373E+00
48.0	1.0215E+00	1.0005E+00	110.0	1.0914E+00	1.0413E+00	170.0	1.1117E+01	1.7081E+01
50.0	1.0130E+00	1.0024E+00	112.0	7.8863E-01	1.0407E+00	172.0	2.8031E+00	7.6213E+00
52.0	9.7845E-01	1.0022E+00	114.0	9.7407E-01	1.0442E+00	174.0	6.5276E+01	3.3185E+01
54.0	9.8077E-01	1.0008E+00	116.0	1.2165E+00	1.0572E+00	176.0	3.0867E+02	2.5096E+02
56.0	1.0205E+00	1.0012E+00	118.0	8.1036E-01	1.0620E+00	178.0	6.6018E+02	6.3353E+02
58.0	1.0231E+00	1.0031E+00	120.0	7.9249E-01	1.0664E+00	180.0	8.3757E+02	8.3757E+02
60.0	9.7691E-01	1.0035E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=28.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0186E+00	1.0186E+00	62.0	9.6242E-01	1.0025E+00	122.0	1.2136E+00	1.0789E+00	122.0	1.0812E+00	1.0908E+00
2.0	1.0107E+00	1.0157E+00	64.0	9.9441E-01	1.0014E+00	124.0	1.0812E+00	1.0908E+00	124.0	1.0812E+00	1.0908E+00
4.0	9.8474E-01	1.0030E+00	66.0	1.0392E+00	1.0030E+00	126.0	5.8386E-01	1.1019E+00	126.0	5.8386E-01	1.1019E+00
6.0	9.8584E-01	1.0021E+00	68.0	1.0004E+00	1.0050E+00	128.0	1.1143E+00	1.1177E+00	128.0	1.1143E+00	1.1177E+00
8.0	9.9149E-01	9.9837E-01	70.0	9.5097E-01	1.0036E+00	130.0	1.2833E+00	1.1302E+00	130.0	1.2833E+00	1.1302E+00
10.0	1.0045E+00	9.9845E-01	72.0	1.0003E+00	1.0025E+00	132.0	5.2072E-01	1.1569E+00	132.0	5.2072E-01	1.1569E+00
12.0	1.0103E+00	1.0004E+00	74.0	1.0504E+00	1.0050E+00	134.0	9.3555E-01	1.1831E+00	134.0	9.3555E-01	1.1831E+00
14.0	1.0033E+00	1.0015E+00	76.0	9.8435E-01	1.0070E+00	136.0	1.5022E+00	1.1880E+00	136.0	1.5022E+00	1.1880E+00
16.0	9.9295E-01	1.0009E+00	78.0	9.3768E-01	1.0048E+00	138.0	5.5159E-01	1.2418E+00	138.0	5.5159E-01	1.2418E+00
18.0	9.9350E-01	9.9973E-01	80.0	1.0234E+00	1.0048E+00	140.0	6.9007E-01	1.2960E+00	140.0	6.9007E-01	1.2960E+00
20.0	1.0045E+00	9.9961E-01	82.0	1.0550E+00	1.0089E+00	142.0	1.7255E+00	1.2767E+00	142.0	1.7255E+00	1.2767E+00
22.0	1.0106E+00	1.0007E+00	84.0	9.4513E-01	1.0094E+00	144.0	7.1910E-01	1.3775E+00	144.0	7.1910E-01	1.3775E+00
24.0	1.0014E+00	1.0015E+00	86.0	9.4053E-01	1.0067E+00	146.0	3.9991E-01	1.4993E+00	146.0	3.9991E-01	1.4993E+00
26.0	9.8798E-01	1.0009E+00	88.0	1.0683E+00	1.0093E+00	148.0	1.9514E+00	1.4189E+00	148.0	1.9514E+00	1.4189E+00
28.0	9.9032E-01	9.9975E-01	90.0	1.0258E+00	1.0141E+00	150.0	1.1178E+00	1.6050E+00	150.0	1.1178E+00	1.6050E+00
30.0	1.0081E+00	9.9968E-01	92.0	8.9143E-01	1.0121E+00	152.0	1.1635E-01	1.8956E+00	152.0	1.1635E-01	1.8956E+00
32.0	1.0166E+00	1.0009E+00	94.0	9.9442E-01	1.0112E+00	154.0	2.1841E+00	1.6613E+00	154.0	2.1841E+00	1.6613E+00
34.0	1.0012E+00	1.0018E+00	96.0	1.1036E+00	1.0178E+00	156.0	2.0007E+00	2.0493E+00	156.0	2.0007E+00	2.0493E+00
36.0	9.8305E-01	1.0011E+00	98.0	9.2996E-01	1.0200E+00	158.0	3.0525E-02	2.7816E+00	158.0	3.0525E-02	2.7816E+00
38.0	9.9065E-01	9.9998E-01	100.0	8.8431E-01	1.0167E+00	160.0	2.4200E+00	2.1208E+00	160.0	2.4200E+00	2.1208E+00
40.0	1.0137E+00	1.0034E+00	102.0	1.1074E+00	1.0220E+00	162.0	4.1924E+00	3.0607E+00	162.0	4.1924E+00	3.0607E+00
42.0	1.0141E+00	1.0017E+00	104.0	1.0375E+00	1.0293E+00	164.0	1.1254E+00	5.3129E+00	164.0	1.1254E+00	5.3129E+00
44.0	9.8837E-01	1.0019E+00	106.0	8.1141E-01	1.0270E+00	166.0	2.5909E-00	3.2126E+00	166.0	2.5909E-00	3.2126E+00
46.0	9.8002E-01	1.0007E+00	108.0	1.0201E+00	1.0294E+00	168.0	1.1515E+01	6.3786E+00	168.0	1.1515E+01	6.3786E+00
48.0	1.0075E+00	1.0003E+00	110.0	1.1546E+00	1.0404E+00	170.0	1.1626E+01	1.7163E+01	170.0	1.1626E+01	1.7163E+01
50.0	1.0245E+00	1.0018E+00	112.0	8.2085E-01	1.0422E+00	172.0	2.6591E+00	8.0958E+00	172.0	2.6591E+00	8.0958E+00
52.0	9.9653E-01	1.0027E+00	114.0	8.7220E-01	1.0430E+00	174.0	6.3100E+01	3.1604E+01	174.0	6.3100E+01	3.1604E+01
54.0	9.7105E-01	1.0016E+00	116.0	1.2241E+00	1.0554E+00	176.0	3.0612E+02	2.4978E+02	176.0	3.0612E+02	2.4978E+02
56.0	9.9825E-01	1.0007E+00	118.0	9.1770E-01	1.0628E+00	178.0	6.6705E+02	6.3981E+02	178.0	6.6705E+02	6.3981E+02
58.0	1.0302E+00	1.0022E+00	120.0	7.1208E-01	1.0659E+00	180.0	8.4920E+02	8.4920E+02	180.0	8.4920E+02	8.4920E+02
60.0	1.0014E+00	1.0036E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=29.0

NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE
E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE	
0.0	1.0230E+00	62.0	9.7556E-01	1.0034E+00	122.0	1.1133E+00	1.0773E+00	
2.0	1.0146E+00	64.0	9.7007E-01	1.0017E+00	124.0	1.1947E+00	1.0903E+00	
4.0	9.9602E-01	66.0	1.0261E+00	1.0021E+00	126.0	6.0926E-01	1.1010E+00	
6.0	9.8188E-01	68.0	1.0267E+00	1.0047E+00	128.0	9.7158E-01	1.1172E+00	
8.0	9.8345E-01	70.0	9.6304E-01	1.0047E+00	130.0	1.3656E+00	1.1294E+00	
10.0	9.9908E-01	72.0	9.6729E-01	1.0027E+00	132.0	6.1230E-01	1.1535E+00	
12.0	1.0141E+00	74.0	1.0418E+00	1.0040E+00	134.0	7.7353E-01	1.1642E+00	
14.0	1.0139L+00	76.0	1.0221E+00	1.0070E+00	136.0	1.5316E+00	1.1883E+00	
16.0	9.9928E-01	78.0	9.3881E-01	1.0061E+00	138.0	7.0178E-01	1.2335E+00	
18.0	9.8692E-01	80.0	9.8091E-01	1.0043E+00	140.0	5.3479E-01	1.2990E+00	
20.0	9.9121E-01	82.0	1.0449E+00	1.0075E+00	142.0	1.6890E+00	1.2804E+00	
22.0	1.0063E+00	84.0	9.8933E-01	1.0102E+00	144.0	9.1231E-01	1.3604E+00	
24.0	1.0122E+00	86.0	9.1525E-01	1.0077E+00	146.0	2.7661E-01	1.5048E+00	
26.0	1.0006E+00	88.0	1.0284E+00	1.0079E+00	148.0	1.8420E+00	1.4300E+00	
28.0	9.8822E-01	90.0	1.0693E+00	1.0133E+00	150.0	1.3310E+00	1.5757E+00	
30.0	9.9453E-01	92.0	9.1865E-01	1.0137E+00	152.0	5.2037E-02	1.9048E+00	
32.0	1.0115E+00	94.0	9.3494E-01	1.0109E+00	154.0	2.0009E+00	1.6874E+00	
34.0	1.0120E+00	96.0	1.1008E+00	1.0158E+00	156.0	2.1978E+00	1.9844E+00	
36.0	9.9211E-01	98.0	9.9772E-01	1.0209E+00	158.0	6.1553E-02	2.7978E+00	
38.0	9.8184E-01	100.0	8.5392E-01	1.0178E+00	160.0	2.1650E+00	2.1792E+00	
40.0	1.0003E+00	102.0	1.0485E+00	1.0199E+00	162.0	4.2982E+00	2.9239E+00	
42.0	1.0198E+00	104.0	1.1036E+00	1.0288E+00	164.0	1.3176E+00	5.3433E+00	
44.0	1.0062E+00	106.0	8.3944E-01	1.0287E+00	166.0	2.2933E+00	3.3559E+00	
46.0	9.8018E-01	108.0	9.3077E-01	1.0281E+00	168.0	1.1291E+01	6.0291E+00	
48.0	9.8840E-01	110.0	1.1781E+00	1.0388E+00	170.0	1.2123E+01	1.7212E+01	
50.0	1.0195E+00	112.0	9.0500E-01	1.0435E+00	172.0	2.5668E+00	8.5962E+00	
52.0	1.0157E+00	114.0	7.9208E-01	1.0427E+00	174.0	6.0938E+01	3.0059E+01	
54.0	9.7860E-01	116.0	1.1846E+00	1.0533E+00	176.0	3.0549E+02	2.4854E+02	
56.0	9.7726E-01	118.0	1.0329E+00	1.0633E+00	178.0	6.7390E+02	6.4609E+02	
58.0	1.0196E+00	120.0	6.7518E-01	1.0659E+00	180.0	8.6091E+02	8.6091E+02	
60.0	1.0241E+00							

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=29.2

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0055E+00	1.0055E+00	62.0	1.0008E+00	1.0038E+00	122.0	9.9150E-01	1.0758E+00	122.0	9.9150E-01	1.0758E+00
2.0	1.0047E+00	1.0054E+00	64.0	9.9108E-01	1.0026E+00	124.0	1.2733E+00	1.0897E+00	124.0	1.2733E+00	1.0897E+00
4.0	1.0015E+00	1.0047E+00	66.0	9.9872E-01	1.0016E+00	126.0	6.8232E-01	1.1002E+00	126.0	6.8232E-01	1.1002E+00
6.0	9.9587E-01	1.0029E+00	68.0	1.0408E+00	1.0037E+00	128.0	8.2850E-01	1.1165E+00	128.0	8.2850E-01	1.1165E+00
8.0	9.9170E-01	1.0005E+00	70.0	9.9154E-01	1.0035E+00	130.0	1.3944E+00	1.1291E+00	130.0	1.3944E+00	1.1291E+00
10.0	9.9491E-01	9.9874E-01	72.0	9.4918E-01	1.0035E+00	132.0	7.4055E-01	1.1501E+00	132.0	7.4055E-01	1.1501E+00
12.0	1.0049E+00	9.9874E-01	74.0	1.0128E+00	1.0030E+00	134.0	6.3173E-01	1.1843E+00	134.0	6.3173E-01	1.1843E+00
14.0	1.0117E+00	1.0003E+00	76.0	1.0478E+00	1.0002E+00	136.0	1.5089E+00	1.1900E+00	136.0	1.5089E+00	1.1900E+00
16.0	1.0060E+00	1.0017E+00	78.0	9.6473E-01	1.0071E+00	138.0	8.7279E-01	1.2254E+00	138.0	8.7279E-01	1.2254E+00
18.0	9.9230E-01	1.0015E+00	80.0	9.4557E-01	1.0047E+00	140.0	4.1437E-01	1.2997E+00	140.0	4.1437E-01	1.2997E+00
20.0	9.8661E-01	1.0001E+00	82.0	1.0469E+00	1.0080E+00	142.0	1.6050E+00	1.2868E+00	142.0	1.6050E+00	1.2868E+00
22.0	9.9765E-01	9.9917E-01	84.0	1.0348E+00	1.0101E+00	144.0	1.1096E+00	1.3440E+00	144.0	1.1096E+00	1.3440E+00
24.0	1.0129E+00	9.9985E-01	86.0	9.1998E-01	1.0091E+00	146.0	1.9565E-01	1.5059E+00	146.0	1.9565E-01	1.5059E+00
26.0	1.0120E+00	1.0012E+00	88.0	9.7657E-01	1.0072E+00	148.0	1.8968E+00	1.4450E+00	148.0	1.8968E+00	1.4450E+00
28.0	9.9494E-01	1.0015E+00	90.0	1.0854E+00	1.0118E+00	150.0	1.5335E+00	1.5442E+00	150.0	1.5335E+00	1.5442E+00
30.0	9.8531E-01	1.0005E+00	92.0	9.6969E-01	1.0148E+00	152.0	3.0067E-02	1.9067E+00	152.0	3.0067E-02	1.9067E+00
32.0	9.9786E-01	9.9974E-01	94.0	8.9429E-01	1.0116E+00	154.0	1.7961E+00	1.7194E+00	154.0	1.7961E+00	1.7194E+00
34.0	1.0140E+00	1.0005E+00	96.0	1.0637E+00	1.0139E+00	156.0	2.3725E+00	1.9228E+00	156.0	2.3725E+00	1.9228E+00
36.0	1.0072E+00	1.0015E+00	98.0	1.0615E+00	1.0207E+00	158.0	1.2740E-01	2.8020E+00	158.0	1.2740E-01	2.8020E+00
38.0	9.8658E-01	1.0013E+00	100.0	8.6153E-01	1.0194E+00	160.0	1.9044E+00	2.4682E+00	160.0	1.9044E+00	2.4682E+00
40.0	9.8702E-01	1.0002E+00	102.0	9.7359E-01	1.0186E+00	162.0	4.3749E+00	2.7930E+00	162.0	4.3749E+00	2.7930E+00
42.0	1.0113E+00	1.0002E+00	104.0	1.1379E+00	1.0273E+00	164.0	1.5279E+00	5.3547E+00	164.0	1.5279E+00	5.3547E+00
44.0	1.0188E+00	1.0016E+00	106.0	9.0209E-01	1.0303E+00	166.0	2.0165E+00	3.5136E+00	166.0	2.0165E+00	3.5136E+00
46.0	9.9278E-01	1.0021E+00	108.0	8.5443E-01	1.0278E+00	168.0	1.1041E+01	5.6911E+00	168.0	1.1041E+01	5.6911E+00
48.0	9.7678E-01	1.0010E+00	110.0	1.1572E+00	1.0365E+00	170.0	1.2606E+01	1.7227E+01	170.0	1.2606E+01	1.7227E+01
50.0	1.0021E+00	1.0004E+00	112.0	1.0031E+00	1.0443E+00	172.0	2.5253E+00	9.1205E+00	172.0	2.5253E+00	9.1205E+00
52.0	1.0246E+00	1.0017E+00	114.0	7.4938E-01	1.0431E+00	174.0	5.8791E+01	2.8552E+01	174.0	5.8791E+01	2.8552E+01
54.0	9.9870E-01	1.0028E+00	116.0	1.1060E+00	1.0512E+00	176.0	3.0478E+02	2.4722E+02	176.0	3.0478E+02	2.4722E+02
56.0	9.6991E-01	1.0018E+00	118.0	1.1357E+00	1.0631E+00	178.0	6.8075E+02	6.5234E+02	178.0	6.8075E+02	6.5234E+02
58.0	9.9752E-01	1.0008E+00	120.0	6.8743E-01	1.0663E+00	180.0	8.7270E+02	8.7270E+02	180.0	8.7270E+02	8.7270E+02
60.0	1.0322E+00	1.0023E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=29.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.8355E-01	9.8355E-01	62.0	1.0240E+00	1.0035E+00	122.0	8.6729E-01	1.0745E+00	122.0	8.6729E-01	1.0745E+00
2.0	9.9103E-01	9.8622E-01	64.0	9.7187E-01	1.0036E+00	124.0	1.3060E+00	1.0888E+00	124.0	1.3060E+00	1.0888E+00
4.0	1.0061E+00	9.9261E-01	66.0	9.7155E-01	1.0018E+00	126.0	7.9255E-01	1.0995E+00	126.0	7.9255E-01	1.0995E+00
6.0	1.0140E+00	9.9901E-01	68.0	1.0311E+00	1.0026E+00	128.0	7.0372E-01	1.1156E+00	128.0	7.0372E-01	1.1156E+00
8.0	1.0075E+00	1.0023E+00	70.0	1.0225E+00	1.0051E+00	130.0	1.3814E+00	1.1292E+00	130.0	1.3814E+00	1.1292E+00
10.0	9.9517E-01	1.0019E+00	72.0	9.5439E-01	1.0046E+00	132.0	8.9115E-01	1.1469E+00	132.0	8.9115E-01	1.1469E+00
12.0	9.9125E-01	1.0001E+00	74.0	9.7747E-01	1.0028E+00	134.0	5.2411E-01	1.1834E+00	134.0	5.2411E-01	1.1834E+00
14.0	9.9932E-01	9.9925E-01	76.0	1.0502E+00	1.0049E+00	136.0	1.4365E+00	1.1927E+00	136.0	1.4365E+00	1.1927E+00
16.0	1.0080E+00	1.0001E+00	78.0	1.0038E+00	1.0075E+00	138.0	1.0901E+00	1.2180E+00	138.0	1.0901E+00	1.2180E+00
18.0	1.0050E+00	1.0012E+00	80.0	9.3186E-01	1.0037E+00	140.0	3.3752E-01	1.2980E+00	140.0	3.3752E-01	1.2980E+00
20.0	9.9398E-01	1.0010E+00	82.0	1.0084E+00	1.0050E+00	142.0	1.4793E+00	1.2945E+00	142.0	1.4793E+00	1.2945E+00
22.0	9.9117E-01	9.9996E-01	84.0	1.0638E+00	1.0091E+00	144.0	1.2908E+00	1.3293E+00	144.0	1.2908E+00	1.3293E+00
24.0	1.0027E+00	9.9955E-01	86.0	9.5223E-01	1.0103E+00	146.0	1.6102E-01	1.5026E+00	146.0	1.6102E-01	1.5026E+00
26.0	1.0131E+00	1.0005E+00	88.0	9.3166E-01	1.0075E+00	148.0	1.5214E+00	1.4628E+00	148.0	1.5214E+00	1.4628E+00
28.0	1.0053E+00	1.0015E+00	90.0	1.0688E+00	1.0101E+00	150.0	1.7154E+00	1.5159E+00	150.0	1.7154E+00	1.5159E+00
30.0	9.8802E-01	1.0012E+00	92.0	1.0271E+00	1.0150E+00	152.0	5.0809E-02	1.9012E+00	152.0	5.0809E-02	1.9012E+00
32.0	9.8684E-01	1.0000E+00	94.0	8.8518E-01	1.0130E+00	154.0	1.5762E+00	1.7559E+00	154.0	1.5762E+00	1.7559E+00
34.0	1.0059E+00	9.9979E-01	96.0	1.0045E+00	1.0125E+00	156.0	2.5201E+00	1.8662E+00	156.0	2.5201E+00	1.8662E+00
36.0	1.0168E+00	1.0009E+00	98.0	1.1027E+00	1.0196E+00	158.0	2.2617E-01	2.7947E+00	158.0	2.2617E-01	2.7947E+00
38.0	1.0006E+00	1.0017E+00	100.0	9.0446E-01	1.0210E+00	160.0	1.6549E+00	2.3217E+00	160.0	1.6549E+00	2.3217E+00
40.0	9.8266E-01	1.0010E+00	102.0	9.0325E-01	1.0182E+00	162.0	4.4214E+00	2.6699E+00	162.0	4.4214E+00	2.6699E+00
42.0	9.9467E-01	1.0001E+00	104.0	1.1323E+00	1.0253E+00	164.0	1.7537E+00	5.3473E+00	164.0	1.7537E+00	5.3473E+00
44.0	1.0173E+00	1.0008E+00	106.0	9.8361E-01	1.0313E+00	166.0	1.7624E+00	3.6838E+00	166.0	1.7624E+00	3.6838E+00
46.0	1.0096E+00	1.0021E+00	108.0	8.0879E-01	1.0284E+00	168.0	1.0705E+01	5.3664E+00	168.0	1.0705E+01	5.3664E+00
48.0	9.8039E-01	1.0018E+00	110.0	1.0973E+00	1.0342E+00	170.0	1.3073E+01	1.7209E+01	170.0	1.3073E+01	1.7209E+01
50.0	9.8380E-01	1.0005E+00	112.0	1.0945E+00	1.0444E+00	172.0	2.5333E+00	9.6663E+00	172.0	2.5333E+00	9.6663E+00
52.0	1.0180E+00	1.0008E+00	114.0	7.5211E-01	1.0441E+00	174.0	5.8651E+01	2.7084E+01	174.0	5.8651E+01	2.7084E+01
54.0	1.0188E+00	1.0025E+00	116.0	1.0037E+00	1.0493E+00	176.0	3.0400E+02	2.4588E+02	176.0	3.0400E+02	2.4588E+02
56.0	9.7990E-01	1.0026E+00	118.0	1.2081E+00	1.0624E+00	178.0	6.8759E+02	6.5857E+02	178.0	6.8759E+02	6.5857E+02
58.0	9.7665E-01	1.0011E+00	120.0	7.4617E-01	1.0669E+00	180.0	8.8458E+02	8.8458E+02	180.0	8.8458E+02	8.8458E+02
60.0	1.0211E+00	1.0014E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=29.6

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE		
ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE
0.0	9.7852E-01	62.0	1.0328E+00	122.0	7.5999E-01	1.0735E+00	1.0735E+00	
2.0	9.8685E-01	64.0	9.9654E-01	124.0	1.2886E+00	1.0877E+00	1.0877E+00	
4.0	1.0053E+00	66.0	9.5888E-01	126.0	9.2431E-01	1.0988E+00	1.0988E+00	
6.0	1.0187E+00	68.0	1.0052E+00	128.0	6.1215E-01	1.1145E+00	1.1145E+00	
8.0	1.0157E+00	70.0	1.0409E+00	130.0	1.3141E+00	1.1295E+00	1.1295E+00	
10.0	9.9932E-01	72.0	9.7995E-01	132.0	1.0475E+00	1.1442E+00	1.1442E+00	
12.0	9.8611E-01	74.0	9.5188E-01	134.0	4.6010E-01	1.1813E+00	1.1813E+00	
14.0	9.8875E-01	76.0	1.0293E+00	136.0	1.3214E+00	1.1959E+00	1.1959E+00	
16.0	1.0038E+00	78.0	1.0387E+00	138.0	1.2188E+00	1.2119E+00	1.2119E+00	
18.0	1.0135E+00	80.0	9.4488E-01	140.0	3.0912E-01	1.2938E+00	1.2938E+00	
20.0	1.0061E+00	82.0	9.6525E-01	142.0	1.3205E+00	1.3034E+00	1.3034E+00	
22.0	9.9173E-01	84.0	1.0653E+00	144.0	1.4682E+00	1.3171E+00	1.3171E+00	
24.0	9.9025E-01	86.0	9.9943E-01	146.0	1.7416E-01	1.4950E+00	1.4950E+00	
26.0	1.0037E+00	88.0	9.0975E-01	148.0	1.3250E+00	1.4823E+00	1.4823E+00	
28.0	1.0117E+00	90.0	1.0260E+00	150.0	1.8721E+00	1.4916E+00	1.4916E+00	
30.0	1.0005E+00	92.0	1.0716E+00	152.0	1.1375E-01	1.8886E+00	1.8886E+00	
32.0	9.6553E-01	94.0	9.1013E-01	154.0	1.3493E+00	1.7955E+00	1.7955E+00	
34.0	9.9358E-01	96.0	9.4185E-01	156.0	2.6317E+00	1.8159E+00	1.8159E+00	
36.0	1.0135E+00	98.0	1.1097E+00	158.0	3.5524E-01	2.7758E+00	2.7758E+00	
38.0	1.0133E+00	100.0	9.7016E-01	160.0	1.4019E+00	2.4022E+00	2.4022E+00	
40.0	9.9016E-01	102.0	8.5642E-01	162.0	4.4371E+00	2.5562E+00	2.5562E+00	
42.0	9.8195E-01	104.0	1.0889E+00	164.0	1.9920E+00	5.3210E+00	5.3210E+00	
44.0	1.0050E+00	106.0	1.0638E+00	166.0	1.5328E+00	3.8644E+00	3.8644E+00	
46.0	1.0198E+00	108.0	8.0404E-01	168.0	1.0465E+01	5.0570E+00	5.0570E+00	
48.0	9.9664E-01	110.0	1.0123E+00	170.0	1.3520E+01	1.7158E+01	1.7158E+01	
50.0	9.7605E-01	112.0	1.1600E+00	172.0	2.5896E+00	1.0231E+01	1.0231E+01	
52.0	1.0001E+00	114.0	7.9908E-01	174.0	5.4550E+01	2.5657E+01	2.5657E+01	
54.0	1.0265E+00	116.0	8.9695E-01	176.0	3.0315E+02	2.4443E+02	2.4443E+02	
56.0	1.0007E+00	118.0	1.2377E+00	178.0	6.9441E+02	6.6479E+02	6.6479E+02	
58.0	9.6878E-01	120.0	8.4103E-01	180.0	8.9653E+02	8.9653E+02	8.9653E+02	
60.0	9.5763E-01							

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=29.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.9483E-01	9.9483E-01	62.0	1.0230E+00	1.0016E+00	122.0	6.8604E-01	1.0729E+00
2.0	9.9578E-01	9.9501E-01	64.0	1.0219E+00	1.0037E+00	124.0	1.2241E+00	1.0865E+00
4.0	9.9653E-01	9.9589E-01	66.0	9.6698E-01	1.0036E+00	126.0	1.0600E+00	1.0982E+00
6.0	1.0056E-00	9.9783E-01	68.0	9.7645E-01	1.0019E+00	128.0	5.6699E-01	1.1133E+00
8.0	1.0090E-00	1.0003E+00	70.0	1.0380E+00	1.0031E+00	130.0	1.2000E+00	1.1298E+00
10.0	1.0045E+00	1.0026E+00	72.0	1.0132E+00	1.0056E+00	132.0	1.1927E+00	1.1421E+00
12.0	9.9438E-01	1.0017E+00	74.0	9.4739E-01	1.0045E+00	134.0	4.4820E-01	1.1783E+00
14.0	9.8926E-01	1.0001E+00	76.0	9.9380E-01	1.0031E+00	136.0	1.1747E+00	1.1993E+00
16.0	9.9486E-01	9.9896E-01	78.0	1.0546E+00	1.0060E+00	138.0	1.3650E+00	1.2074E+00
18.0	1.0100E+00	9.9949E-01	80.0	9.7870E-01	1.0079E+00	140.0	3.3231E-01	1.2875E+00
20.0	1.0123E+00	1.0010E+00	82.0	9.3495E-01	1.0054E+00	142.0	1.1403E+00	1.3126E+00
22.0	9.9889E-01	1.0016E+00	84.0	1.0394E+00	1.0052E+00	144.0	1.6075E+00	1.3079E+00
24.0	9.8636E-01	1.0007E+00	86.0	1.0438E+00	1.0106E+00	146.0	2.3933E-01	1.4834E+00
26.0	9.9227E-01	9.9960E-01	88.0	9.1848E-01	1.0099E+00	148.0	1.1172E+00	1.5024E+00
28.0	1.0093E+00	9.9981E-01	90.0	9.7255E-01	1.0080E+00	150.0	1.9910E+00	1.4723E+00
30.0	1.0126E+00	1.0010E+00	92.0	1.0889E+00	1.0129E+00	152.0	2.1453E-01	1.8692E+00
32.0	9.9631E-01	1.0014E+00	94.0	9.6064E-01	1.0157E+00	154.0	1.1194E+00	1.8366E+00
34.0	9.8603E-01	1.0005E+00	96.0	8.9509E-01	1.0125E+00	156.0	2.7193E+00	1.7731E+00
36.0	9.9995E-01	9.9991E-01	98.0	1.0811E+00	1.0158E+00	158.0	5.1138E-01	2.7457E+00
38.0	1.0158E+00	1.0007E+00	100.0	1.0397E+00	1.0224E+00	160.0	1.1677E+00	2.4865E+00
40.0	1.0044E+00	1.0017E+00	102.0	8.4530E-01	1.0202E+00	162.0	4.4219E+00	2.4534E+00
42.0	9.8219E-01	1.0013E+00	104.0	1.0194E+00	1.0213E+00	164.0	2.2398E+00	5.2763E+00
44.0	9.8930E-01	1.0002E+00	106.0	1.1230E+00	1.0306E+00	166.0	1.3249E+00	4.0533E+00
46.0	1.0167E+00	1.0005E+00	108.0	8.4061E-01	1.0313E+00	168.0	1.0113E+01	4.7646E+00
48.0	1.0144E+00	1.0026E+00	110.0	9.2122E-01	1.0311E+00	170.0	1.3938E+01	1.7074E+01
50.0	9.8311E-01	1.0020E+00	112.0	1.1864E+00	1.0421E+00	172.0	2.6930E+00	1.0813E+01
52.0	9.8187E-01	1.0007E+00	114.0	8.8027E-01	1.0467E+00	174.0	5.2462E+01	2.4271E+01
54.0	1.0173E+00	1.0009E+00	116.0	8.0588E-01	1.0472E+00	176.0	3.0222E+02	2.4294E+02
56.0	1.0198E+00	1.0026E+00	118.0	1.2198E+00	1.0593E+00	178.0	7.0122E+02	6.7098E+02
58.0	9.7835E-01	1.0027E+00	120.0	9.5581E-01	1.0680E+00	180.0	9.0856E+02	9.0856E+02
60.0	9.7551E-01	1.0013E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=30.0

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE		
ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE
0.0	1.0161E+00	62.0	1.0004E+00	122.0	6.5660E-01	1.0725E+00	1.0725E+00	122.0
2.0	1.0087E+00	64.0	1.0344E+00	124.0	1.1226E+00	1.0852E+00	1.0852E+00	124.0
4.0	9.9429E-01	66.0	9.9100E-01	126.0	1.1808E+00	1.0977E+00	1.0977E+00	126.0
6.0	9.8711E-01	68.0	9.5846E-01	128.0	5.7089E-01	1.1119E+00	1.1119E+00	128.0
8.0	9.9469E-01	70.0	1.0153E+00	130.0	1.0702E+00	1.1299E+00	1.1299E+00	130.0
10.0	1.0060E+00	72.0	1.0381E+00	132.0	1.3112E+00	1.1407E+00	1.1407E+00	132.0
12.0	1.0082E+00	74.0	9.6561E-01	134.0	4.8652E-01	1.1745E+00	1.1745E+00	134.0
14.0	9.9949E-01	76.0	9.5029E-01	136.0	1.0059E+00	1.2023E+00	1.2023E+00	136.0
16.0	9.9253E-01	78.0	1.0451E+00	138.0	1.4736E+00	1.2047E+00	1.2047E+00	138.0
18.0	9.9770E-01	80.0	1.0190E+00	140.0	4.0340E-01	1.2795E+00	1.2795E+00	140.0
20.0	1.0079E+00	82.0	9.2960E-01	142.0	9.5170E-01	1.3212E+00	1.3212E+00	142.0
22.0	1.0072E+00	84.0	9.5674E-01	144.0	1.7084E+00	1.3025E+00	1.3025E+00	144.0
24.0	9.9441E-01	86.0	1.0689E+00	146.0	3.3612E-01	1.4685E+00	1.4685E+00	146.0
26.0	9.8734E-01	88.0	9.5422E-01	148.0	9.0805E-01	1.5219E+00	1.5219E+00	148.0
28.0	9.9984E-01	90.0	9.2714E-01	150.0	2.0772E+00	1.4586E+00	1.4586E+00	150.0
30.0	1.0143E+00	92.0	1.0735E+00	152.0	3.5056E-01	1.8439E+00	1.8439E+00	152.0
32.0	1.0081E+00	94.0	1.0200E+00	154.0	8.9679E-01	1.8777E+00	1.8777E+00	154.0
34.0	9.8863E-01	96.0	8.7823E-01	156.0	2.7658E+00	1.7388E+00	1.7388E+00	156.0
36.0	9.8676E-01	98.0	1.0256E+00	158.0	6.9072E-01	2.7053E+00	2.7053E+00	158.0
38.0	1.0072E+00	100.0	1.0934E+00	160.0	9.4751E-01	2.5727E+00	2.5727E+00	160.0
40.0	1.0154E+00	102.0	8.7225E-01	162.0	4.3760E+00	2.3628E+00	2.3628E+00	162.0
42.0	9.9491E-01	104.0	9.4200E-01	164.0	2.4940E+00	5.2139E+00	5.2139E+00	164.0
44.0	9.8113E-01	106.0	1.1470E+00	166.0	1.1521E+00	4.2485E+00	4.2485E+00	166.0
46.0	1.0023E+00	108.0	9.0936E-01	168.0	9.8014E+00	4.4907E+00	4.4907E+00	168.0
48.0	1.0219E+00	110.0	8.4428E-01	170.0	1.4353E+01	1.6958E+01	1.6958E+01	170.0
50.0	9.9998E-01	112.0	1.1685E+00	172.0	2.8421E+00	1.1410E+01	1.1410E+01	172.0
52.0	9.7466E-01	114.0	9.7922E-01	174.0	5.0397E+01	2.2929E+01	2.2929E+01	174.0
54.0	9.9737E-01	116.0	7.4732E-01	176.0	3.0121E+02	2.4138E+02	2.4138E+02	176.0
56.0	1.0265E+00	118.0	1.1582E+00	178.0	7.0802E+02	6.7715E+02	6.7715E+02	178.0
58.0	9.9974E-01	120.0	1.0713E+00	180.0	9.2067E+02	9.2067E+02	9.2067E+02	180.0
60.0	9.6713E-01		1.0020E+00					

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA=30.2

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=30.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0064E+00	1.0064E+00	62.0	9.6611E-01	1.0021E+00	122.0	7.3993E-01	1.0730E+00
2.0	1.0050E+00	1.0061E+00	64.0	1.0051E+00	1.0014E+00	124.0	8.7230E-01	1.0828E+00
4.0	1.0006E+00	1.0048E+00	66.0	1.0341E+00	1.0034E+00	126.0	1.3174E+00	1.0966E+00
6.0	9.9446E-01	1.0025E+00	68.0	9.8182E-01	1.0043E+00	128.0	7.1954E-01	1.1091E+00
8.0	9.9174E-01	1.0000E+00	70.0	9.6077E-01	1.0035E+00	130.0	7.8138E-01	1.1294E+00
10.0	9.5725E-01	9.9857E-01	72.0	1.0268E+00	1.0028E+00	132.0	1.4219E+00	1.1402E+00
12.0	1.0074E+00	9.9911E-01	74.0	1.0293E+00	1.0056E+00	134.0	6.9449E-01	1.1658E+00
14.0	1.0106E+00	1.0008E+00	76.0	9.5121E-01	1.0053E+00	136.0	6.8722E-01	1.2058E+00
16.0	1.0012E+00	1.0017E+00	78.0	9.7750E-01	1.0035E+00	138.0	1.5635E+00	1.2050E+00
18.0	9.8922E-01	1.0010E+00	80.0	1.0565E+00	1.0080E+00	140.0	6.6412E-01	1.2603E+00
20.0	9.9036E-01	9.9958E-01	82.0	9.8972E-01	1.0085E+00	142.0	5.9729E-01	1.3338E+00
22.0	1.0045E+00	9.9935E-01	84.0	9.2833E-01	1.0062E+00	144.0	1.7738E+00	1.3014E+00
24.0	1.0138E+00	1.0005E+00	86.0	1.0357E+00	1.0067E+00	146.0	6.4453E-01	1.4317E+00
26.0	1.0036E+00	1.0014E+00	88.0	1.0485E+00	1.0113E+00	148.0	5.2551E-01	1.5547E+00
28.0	9.8838E-01	1.0009E+00	90.0	9.1414E-01	1.0107E+00	150.0	2.1153E+00	1.4493E+00
30.0	9.9143E-01	9.9930E-01	92.0	9.7639E-01	1.0089E+00	152.0	7.0422E-01	1.7790E+00
32.0	1.0085E+00	1.0000E+00	94.0	1.0921E+00	1.0142E+00	154.0	4.9747E-01	1.9538E+00
34.0	1.0112E+00	1.0011E+00	96.0	9.4235E-01	1.0166E+00	156.0	2.7464E+00	1.6960E+00
36.0	9.9334E-01	1.0014E+00	98.0	9.0432E-01	1.0135E+00	158.0	1.1017E+00	2.5974E+00
38.0	9.8547E-01	1.0004E+00	100.0	1.1027E+00	1.0183E+00	160.0	5.6260E-01	2.7430E+00
40.0	1.0044E+00	1.0000E+00	102.0	1.0011E+00	1.0240E+00	162.0	4.1955E+00	2.2227E+00
42.0	1.0181E+00	1.0011E+00	104.0	8.4034E-01	1.0210E+00	164.0	3.0090E+00	5.0395E+00
44.0	9.9891E-01	1.0019E+00	106.0	1.0783E+00	1.0249E+00	166.0	8.8302E-01	4.6487E+00
46.0	9.7920E-01	1.0011E+00	108.0	1.0744E+00	1.0338E+00	168.0	9.0867E+00	4.0046E+00
48.0	9.9770E-01	1.0003E+00	110.0	7.9326E-01	1.0324E+00	170.0	1.5089E+01	1.6634E+01
50.0	1.0215E+00	1.0013E+00	112.0	1.0263E+00	1.0359E+00	172.0	3.2713E+00	1.2639E+01
52.0	1.0015E+00	1.0024E+00	114.0	1.1519E+00	1.0474E+00	174.0	4.6346E+01	2.0379E+01
54.0	9.7395E-01	1.0016E+00	116.0	7.6191E-01	1.0489E+00	176.0	2.9899E+02	2.3809E+02
56.0	9.9760E-01	1.0007E+00	118.0	9.5545E-01	1.0539E+00	178.0	7.2156E+02	6.8943E+02
58.0	1.0283E+00	1.0020E+00	120.0	1.2312E+00	1.0672E+00	180.0	9.4513E+02	9.4513E+02
60.0	9.9632E-01	1.0032E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=30.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.8580E-01	9.8580E-01	62.0	9.7282E-01	1.0039E+00	122.0	8.3857E-01	1.0733E+00
2.0	9.9282E-01	9.8833E-01	64.0	9.7973E-01	1.0014E+00	124.0	7.6016E-01	1.0817E+00
4.0	1.0054E+00	9.9422E-01	66.0	1.0315E+00	1.0024E+00	126.0	1.3155E+00	1.0959E+00
6.0	1.0120E+00	9.9978E-01	68.0	1.0103E+00	1.0043E+00	128.0	8.4417E-01	1.1079E+00
8.0	1.0045E+00	1.0021E+00	70.0	9.5579E-01	1.0035E+00	130.0	6.6215E-01	1.1285E+00
10.0	9.9404E-01	1.0013E+00	72.0	9.9705E-01	1.0033E+00	132.0	1.4030E+00	1.1408E+00
12.0	9.9361E-01	9.9971E-01	74.0	1.0455E+00	1.0047E+00	134.0	8.4250E-01	1.1616E+00
14.0	1.0025E+00	9.9947E-01	76.0	9.7881E-01	1.0061E+00	136.0	5.5872E-01	1.2057E+00
16.0	1.0075E+00	1.0005E+00	78.0	9.4894E-01	1.0040E+00	138.0	1.5332E+00	1.2076E+00
18.0	1.0006E+00	1.0012E+00	80.0	1.0386E+00	1.0048E+00	140.0	8.3323E-01	1.2505E+00
20.0	9.9183E-01	1.0005E+00	82.0	1.0300E+00	1.0084E+00	142.0	4.5601E-01	1.3368E+00
22.0	9.9572E-01	9.9954E-01	84.0	9.2859E-01	1.0074E+00	144.0	1.7317E+00	1.3060E+00
24.0	1.0085E+00	9.9998E-01	86.0	9.9069E-01	1.0059E+00	146.0	8.3221E-01	1.4118E+00
26.0	1.0103E+00	1.0010E+00	88.0	1.0724E+00	1.0102E+00	148.0	3.7049E-01	1.5661E+00
28.0	9.9571E-01	1.0014E+00	90.0	9.5011E-01	1.0119E+00	150.0	2.0670E+00	1.4536E+00
30.0	9.8582E-01	1.0004E+00	92.0	9.2777E-01	1.0030E+00	152.0	9.0819E-01	1.7418E+00
32.0	9.9790E-01	9.9971E-01	94.0	1.0825E+00	1.0125E+00	154.0	3.3298E-01	1.9860E+00
34.0	1.0143E+00	1.0004E+00	96.0	1.0025E+00	1.0172E+00	156.0	2.6813E+00	1.6921E+00
36.0	1.0072E+00	1.0014E+00	98.0	8.7433E-01	1.0144E+00	158.0	1.3234E+00	2.5324E+00
38.0	9.8719E-01	1.0012E+00	100.0	1.0569E+00	1.0164E+00	160.0	4.0635E-01	2.8234E+00
40.0	9.8995E-01	1.0002E+00	102.0	1.0677E+00	1.0239E+00	162.0	4.0635E+00	2.1746E+00
42.0	1.0125E+00	1.0004E+00	104.0	8.4172E-01	1.0224E+00	164.0	3.2635E+00	4.9297E+00
44.0	1.0126E+00	1.0016E+00	106.0	1.0037E+00	1.0233E+00	166.0	7.9200E-01	4.8494E+00
46.0	9.8613E-01	1.0017E+00	108.0	1.3229E+00	1.0330E+00	168.0	8.6782E+00	3.7947E+00
48.0	9.8289E-01	1.0005E+00	110.0	8.2952E-01	1.0339E+00	170.0	1.5418E+01	1.6428E+01
50.0	1.0132E+00	1.0006E+00	112.0	9.3272E-01	1.0346E+00	172.0	3.5480E+00	1.3267E+01
52.0	1.0184E+00	1.0020E+00	114.0	1.1917E+00	1.0462E+00	174.0	4.4365E+01	1.9173E+01
54.0	9.8391E-01	1.0023E+00	116.0	8.3118E-01	1.0500E+00	176.0	2.9776E+02	2.3636E+02
56.0	9.7921E-01	1.0010E+00	118.0	8.5062E-01	1.0528E+00	178.0	7.2831E+02	6.9553E+02
58.0	1.0190E+00	1.0012E+00	120.0	1.2497E+00	1.0660E+00	180.0	9.5748E+02	9.5748E+02
60.0	1.0195E+00	1.0030E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=30.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.7985E-01	9.7985E-01	62.0	9.9359E-01	1.0034E+00	122.0	9.5512E-01	1.0736E+00
2.0	9.8834E-01	9.8274E-01	64.0	9.6510E-01	1.0020E+00	124.0	6.7900E-01	1.0809E+00
4.0	1.0064E+00	9.8952E-01	66.0	1.0120E+00	1.0016E+00	126.0	1.2656E+00	1.0952E+00
6.0	1.0179E+00	9.9773E-01	68.0	1.0322E+00	1.0039E+00	128.0	9.8212E-01	1.1069E+00
8.0	1.0124E+00	1.0025E+00	70.0	9.7144E-01	1.0043E+00	130.0	5.7891E-01	1.1272E+00
10.0	9.9613E-01	1.0030E+00	72.0	9.6809E-01	1.0025E+00	132.0	1.3362E+00	1.1418E+00
12.0	9.8634E-01	1.0007E+00	74.0	1.0391E+00	1.0036E+00	134.0	1.0007E+00	1.1579E+00
14.0	9.9325E-01	9.9890E-01	76.0	1.0137E+00	1.0063E+00	136.0	4.6776E-01	1.2043E+00
16.0	1.0078E+00	9.9922E-01	78.0	9.4120E-01	1.0050E+00	138.0	1.4541E+00	1.2113E+00
18.0	1.0114E+00	1.0007E+00	80.0	1.0032E+00	1.0040E+00	140.0	1.0113E+00	1.2414E+00
20.0	9.9987E-01	1.0014E+00	82.0	1.0556E+00	1.0075E+00	142.0	3.5187E-01	1.3370E+00
22.0	9.8990E-01	1.0005E+00	84.0	9.5454E-01	1.0085E+00	144.0	1.6506E+00	1.3134E+00
24.0	9.9626E-01	9.9970E-01	86.0	9.4791E-01	1.0060E+00	146.0	1.0287E+00	1.3921E+00
26.0	1.0089E+00	1.0001E+00	88.0	1.0678E+00	1.0087E+00	148.0	2.4958E-01	1.5732E+00
28.0	1.0068E+00	1.0011E+00	90.0	1.0004E+00	1.0125E+00	150.0	1.9815E+00	1.4633E+00
30.0	9.9184E-01	1.0010E+00	92.0	9.0156E-01	1.0098E+00	152.0	1.1201E+00	1.7033E+00
32.0	9.8936E-01	1.0001E+00	94.0	1.0439E+00	1.0109E+00	154.0	1.9838E-01	2.0127E+00
34.0	1.0064E+00	9.9991E-01	96.0	1.0582E+00	1.0170E+00	156.0	2.5815E+00	1.6958E+00
36.0	1.0150E+00	1.0010E+00	98.0	8.7872E-01	1.0159E+00	158.0	1.5491E+00	2.4620E+00
38.0	9.9763E-01	1.0016E+00	100.0	9.9245E-01	1.0151E+00	160.0	2.7782E-01	2.8984E+00
40.0	9.8275E-01	1.0008E+00	102.0	1.1115E+00	1.0229E+00	162.0	3.9065E+00	2.1419E+00
42.0	9.9853E-01	1.0001E+00	104.0	8.7994E-01	1.0240E+00	164.0	3.5120E+00	4.8057E+00
44.0	1.0176E+00	1.0009E+00	106.0	9.2524E-01	1.0224E+00	166.0	7.3036E-01	5.0477E+00
46.0	1.0021E+00	1.0019E+00	108.0	1.1541E+00	1.0314E+00	168.0	8.2787E+00	3.6083E+00
48.0	9.7940E-01	1.0012E+00	110.0	8.9850E-01	1.0352E+00	170.0	1.5718E+01	1.6193E+01
50.0	9.9644E-01	1.0004E+00	112.0	8.4986E-01	1.0340E+00	172.0	3.8640E+00	1.3900E+01
52.0	1.0230E+00	1.0013E+00	114.0	1.1881E+00	1.0444E+00	174.0	4.2414E+01	1.8015E+01
54.0	1.0028E+00	1.0025E+00	116.0	9.2618E-01	1.0510E+00	176.0	2.9647E+02	2.3457E+02
56.0	9.7272E-01	1.0017E+00	118.0	7.6837E-01	1.0522E+00	178.0	7.3503E+02	7.0160E+02
58.0	9.9826E-01	1.0008E+00	120.0	1.2214E+00	1.0645E+00	180.0	9.6992E+02	9.6992E+02
60.0	1.0287E+00	1.0022E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=31.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.9392E-01	9.9302E-01	62.0	1.0169E+00	1.0032E+00	122.0	1.0736E+00	1.0736E+00
2.0	9.9500E-01	9.9433E-01	64.0	9.6863E-01	1.0029E+00	124.0	6.4030E-01	1.0803E+00
4.0	1.0005E+00	9.9574E-01	66.0	9.8595E-01	1.0015E+00	126.0	1.1751E+00	1.0944E+00
6.0	1.0068E+00	9.9819E-01	68.0	1.0365E+00	1.0029E+00	128.0	1.1159E+00	1.1061E+00
8.0	1.0085E+00	1.0038E+00	70.0	9.9947E-01	1.0047E+00	130.0	5.4107E-01	1.1255E+00
10.0	1.0020E+00	1.0020E+00	72.0	9.5352E-01	1.0033E+00	132.0	1.2291E+00	1.1428E+00
12.0	9.9230E-01	1.0013E+00	74.0	1.0135E+00	1.0029E+00	134.0	1.1531E+00	1.1550E+00
14.0	9.9080E-01	9.9904E-01	76.0	1.0404E+00	1.0057E+00	136.0	4.2287E-01	1.2015E+00
16.0	1.0015E+00	9.9901E-01	78.0	9.5732E-01	1.0061E+00	138.0	1.3357E+00	1.2157E+00
18.0	1.0119E+00	1.0000E+00	80.0	9.6545E-01	1.0040E+00	140.0	1.1848E+00	1.2306E+00
20.0	1.0074E+00	1.0013E+00	82.0	1.0566E+00	1.0062E+00	142.0	2.9166E-01	1.3344E+00
22.0	9.9258E-01	1.0013E+00	84.0	9.9581E-01	1.0091E+00	144.0	1.5268E+00	1.3298E+00
24.0	9.8767E-01	1.0001E+00	86.0	9.2341E-01	1.0068E+00	146.0	1.2231E+00	1.3738E+00
26.0	1.0010E+00	9.9955E-01	88.0	1.0367E+00	1.0073E+00	148.0	1.6844E-01	1.5757E+00
28.0	1.0127E+00	1.0004E+00	90.0	1.0473E+00	1.0122E+00	150.0	1.8567E+00	1.4779E+00
30.0	1.0040E+00	1.0013E+00	92.0	9.0611E-01	1.0113E+00	152.0	1.3319E+00	1.6847E+00
32.0	9.8879E-01	1.0008E+00	94.0	9.8905E-01	1.0099E+00	154.0	9.9047E-02	2.0329E+00
34.0	9.9351E-01	9.9948E-01	96.0	1.0920E+00	1.0159E+00	156.0	2.4488E+00	1.7087E+00
36.0	1.0113E+00	1.0003E+00	98.0	9.1556E-01	1.0173E+00	158.0	1.7735E+00	2.3879E+00
38.0	1.0095E+00	1.0014E+00	100.0	9.2771E-01	1.0147E+00	160.0	1.7899E-01	2.9665E+00
40.0	9.8807E-01	1.0003E+00	102.0	1.1210E+00	1.0212E+00	162.0	3.7254E+00	2.1245E+00
42.0	9.8012E-01	1.0002E+00	104.0	9.4457E-01	1.0253E+00	164.0	3.7515E+00	4.6720E+00
44.0	1.0107E+00	1.0003E+00	106.0	8.6219E-01	1.0224E+00	166.0	6.9812E-01	5.2414E+00
46.0	1.0162E+00	1.0015E+00	108.0	1.1356E+00	1.0294E+00	168.0	7.8705E+00	3.4462E+00
48.0	9.8893E-01	1.0018E+00	110.0	9.8449E-01	1.0362E+00	170.0	1.5989E+01	1.5931E+01
50.0	9.8172E-01	1.0007E+00	112.0	7.9495E-01	1.0342E+00	172.0	4.2173E+00	1.4536E+01
52.0	1.0126E+00	1.0007E+00	114.0	1.1425E+00	1.0424E+00	174.0	4.0497E+01	1.6905E+01
54.0	1.0187E+00	1.0022E+00	116.0	1.0288E+00	1.0515E+00	176.0	2.9511E+02	2.3272E+02
56.0	9.8194E-01	1.0024E+00	118.0	7.2296E-01	1.0522E+00	178.0	7.4174E+02	7.0655E+02
58.0	9.7864E-01	1.0010E+00	120.0	1.1516E+00	1.0627E+00	180.0	9.8243E+02	9.8243E+02
60.0	1.0212E+00	1.0014E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=31.2

NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE
E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE	
0.0	1.0139E+00	0.0	1.0139E+00	1.0139E+00	62.0	1.0298E+00	1.0025E+00	122.0	1.1732E+00	1.0734E+00	122.0
2.0	1.0070E+00	2.0	1.0114E+00	1.0035E+00	64.0	9.8785E-01	1.0035E+00	124.0	6.4925E-01	1.0799E+00	124.0
4.0	9.9413E-01	4.0	1.0056E+00	1.0020E+00	66.0	9.6662E-01	1.0020E+00	126.0	1.0568E+00	1.0934E+00	126.0
6.0	9.8967E-01	6.0	1.0005E+00	1.0021E+00	68.0	1.0213E+00	1.0021E+00	128.0	1.2286E+00	1.1055E+00	128.0
8.0	9.9741E-01	8.0	9.9854E-01	1.0044E+00	70.0	1.0260E+00	1.0044E+00	130.0	5.5258E-01	1.1236E+00	130.0
10.0	1.0067E+00	10.0	9.9954E-01	1.0042E+00	72.0	9.5996E-01	1.0042E+00	132.0	1.0938E+00	1.1437E+00	132.0
12.0	1.0056E+00	12.0	1.0010E+00	1.0026E+00	74.0	9.8099E-01	1.0026E+00	134.0	1.2847E+00	1.1530E+00	134.0
14.0	9.9673E-01	14.0	1.0010E+00	1.0046E+00	76.0	1.0472E+00	1.0046E+00	136.0	4.2750E-01	1.1975E+00	136.0
16.0	9.9377E-01	16.0	9.9939E-01	1.0067E+00	78.0	9.9006E-01	1.0067E+00	138.0	1.1872E+00	1.2203E+00	138.0
18.0	1.0019E+00	18.0	9.9861E-01	1.0046E+00	80.0	9.4132E-01	1.0046E+00	140.0	1.3404E+00	1.2275E+00	140.0
20.0	1.0086E+00	20.0	1.0004E+00	1.0050E+00	82.0	1.0332E+00	1.0050E+00	142.0	2.7909E-01	1.2490E+00	142.0
22.0	1.0019E+00	22.0	1.0012E+00	1.0089E+00	84.0	1.0361E+00	1.0089E+00	144.0	1.3712E+00	1.3337E+00	144.0
24.0	9.9026E-01	24.0	1.0007E+00	1.0080E+00	86.0	9.2601E-01	1.0080E+00	146.0	1.4016E+00	1.3577E+00	146.0
26.0	9.9289E-01	26.0	9.9975E-01	1.0066E+00	88.0	9.9066E-01	1.0066E+00	148.0	1.3063E-01	1.5732E+00	148.0
28.0	1.0083E+00	28.0	9.9983E-01	1.0746E+00	90.0	1.0746E+00	1.0111E+00	150.0	1.7001E+00	1.4964E+00	150.0
30.0	1.0124E+00	30.0	1.0009E+00	1.0125E+00	92.0	9.3300E-01	1.0125E+00	152.0	1.5356E+00	1.6275E+00	152.0
32.0	9.9636E-01	32.0	1.0014E+00	1.0098E+00	94.0	9.3583E-01	1.0098E+00	154.0	3.6389E-02	2.0459E+00	154.0
34.0	9.8567E-01	34.0	1.0005E+00	1.0143E+00	96.0	1.0939E+00	1.0143E+00	156.0	2.2897E+00	1.7302E+00	156.0
36.0	9.9964E-01	36.0	9.9991E-01	1.0183E+00	98.0	9.7345E-01	1.0183E+00	158.0	1.9914E+00	2.3116E+00	158.0
38.0	1.0145E+00	38.0	1.0007E+00	1.0151E+00	100.0	8.8093E-01	1.0151E+00	160.0	1.1134E-01	3.0260E+00	160.0
40.0	1.0019E+00	40.0	1.0015E+00	1.0193E+00	102.0	1.0941E+00	1.0193E+00	162.0	3.5260E+00	2.1235E+00	162.0
42.0	9.8358E-01	42.0	1.0009E+00	1.0258E+00	104.0	1.0187E+00	1.0258E+00	164.0	3.9790E+00	4.5274E+00	164.0
44.0	9.9643E-01	44.0	1.0001E+00	1.0233E+00	106.0	8.2376E-01	1.0233E+00	166.0	6.9501E-01	5.4287E+00	166.0
46.0	1.0167E+00	46.0	1.0009E+00	1.0274E+00	108.0	1.0815E+00	1.0274E+00	168.0	7.4550E+00	3.3090E+00	168.0
48.0	1.0047E+00	48.0	1.0020E+00	1.0363E+00	110.0	1.0683E+00	1.0363E+00	170.0	1.6229E+01	1.5644E+01	170.0
50.0	9.7838E-01	50.0	1.0014E+00	1.0351E+00	112.0	7.7919E-01	1.0351E+00	172.0	4.6052E+00	1.5174E+01	172.0
52.0	9.9436E-01	52.0	1.0005E+00	1.0404E+00	114.0	1.0645E+00	1.0404E+00	174.0	3.8615E+01	1.5945E+01	174.0
54.0	1.0239E+00	54.0	1.0014E+00	1.0515E+00	116.0	1.1199E+00	1.0515E+00	176.0	2.9358E+02	2.3082E+02	176.0
56.0	1.0013E+00	56.0	1.0026E+00	1.0527E+00	118.0	7.2199E-01	1.0527E+00	178.0	7.4843E+02	7.1368E+02	178.0
58.0	9.7138E-01	58.0	1.0017E+00	1.0611E+00	120.0	1.0524E+00	1.0611E+00	180.0	9.9502E+02	9.9502E+02	180.0
60.0	1.0016E+00	60.0	1.0009E+00								

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=31.4

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE		
ANGLE			ANGLE			ANGLE		
0.0	1.0202E+00	1.0202E+00	62.0	1.0254E+00	1.0017E+00	122.0	1.2397E+00	1.0728E+00
2.0	1.0115E+00	1.0172E+00	64.0	1.0121E+00	1.0035E+00	124.0	7.0399E-01	1.0797E+00
4.0	9.9360E-01	1.0100E+00	66.0	9.6391E-01	1.0028E+00	126.0	9.2687E-01	1.0924E+00
6.0	9.8317E-01	1.0023E+00	68.0	9.9472E-01	1.0017E+00	128.0	1.3062E+00	1.1050E+00
8.0	9.8970E-01	9.9793E-01	70.0	1.0383E+00	1.0036E+00	130.0	6.1157E-01	1.1215E+00
10.0	1.0057E+00	9.9789E-01	72.0	9.8413E-01	1.0049E+00	132.0	9.4517E-01	1.1443E+00
12.0	1.0136E+00	1.0002E+00	74.0	9.5667E-01	1.0031E+00	134.0	1.3825E+00	1.1521E+00
14.0	1.0050E+00	1.0017E+00	76.0	1.0318E+00	1.0035E+00	136.0	4.8073E-01	1.1926E+00
16.0	9.9141E-01	1.0012E+00	78.0	1.0251E+00	1.0065E+00	138.0	1.0214E+00	1.2246E+00
18.0	9.9076E-01	9.9978E-01	80.0	9.4050E-01	1.0057E+00	140.0	1.4666E+00	1.2235E+00
20.0	1.0031E+00	9.9950E-01	82.0	9.9520E-01	1.0044E+00	142.0	3.1456E-01	1.3213E+00
22.0	1.0100E+00	1.0005E+00	84.0	1.0598E+00	1.0079E+00	144.0	1.1936E+00	1.3450E+00
24.0	1.0008E+00	1.0011E+00	86.0	9.5414E-01	1.0091E+00	146.0	1.5633E+00	1.3445E+00
26.0	9.9051E-01	1.0005E+00	88.0	9.4655E-01	1.0066E+00	148.0	1.3759E-01	1.5660E+00
28.0	9.9719E-01	9.9980E-01	90.0	1.0730E+00	1.0097E+00	150.0	1.5184E+00	1.5178E+00
30.0	1.0107E+00	1.0003E+00	92.0	9.8953E-01	1.0133E+00	152.0	1.7236E+00	1.5930E+00
32.0	1.0065E+00	1.0012E+00	94.0	9.0124E-01	1.0105E+00	154.0	1.2526E-02	2.0512E+00
34.0	9.8903E-01	1.0011E+00	96.0	1.0639E+00	1.0128E+00	156.0	2.1056E+00	1.7593E+00
36.0	9.8891E-01	1.0001E+00	98.0	1.0351E+00	1.0185E+00	158.0	2.1978E+00	2.2350E+00
38.0	1.0092E+00	1.0001E+00	100.0	8.6508E-01	1.0163E+00	160.0	7.5728E-02	3.0760E+00
40.0	1.0139E+00	1.0012E+00	102.0	1.0387E+00	1.0176E+00	162.0	3.3081E+00	2.1354E+00
42.0	9.9202E-01	1.0015E+00	104.0	1.0831E+00	1.0256E+00	164.0	4.1921E+00	4.3746E+00
44.0	9.8442E-01	1.0005E+00	106.0	8.3555E-01	1.0245E+00	166.0	7.2052E-01	5.6075E+00
46.0	1.0083E+00	1.0004E+00	108.0	1.0051E+00	1.0258E+00	168.0	7.0375E+00	3.1972E+00
48.0	1.0168E+00	1.0016E+00	110.0	1.1318E+00	1.0388E+00	170.0	1.6437E+01	1.5332E+01
50.0	9.8859E-01	1.0019E+00	112.0	8.0541E-01	1.0363E+00	172.0	5.0287E+00	1.5810E+01
52.0	9.7988E-01	1.0008E+00	114.0	9.7005E-01	1.0388E+00	174.0	3.6769E+01	1.4835E+01
54.0	1.0130E+00	1.0008E+00	116.0	1.1825E+00	1.0508E+00	176.0	2.9218E+02	2.2887E+02
56.0	1.0191E+00	1.0023E+00	118.0	7.6511E-01	1.0536E+00	178.0	7.5509E+02	7.1967E+02
58.0	9.8017E-01	1.0024E+00	120.0	9.4062E-01	1.0596E+00	180.0	1.0077E+03	1.0077E+03
60.0	9.8081E-01	1.0011E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=31.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0072E+00	1.0072E+00	62.0	1.0064E+00	1.0012E+00	122.0	1.2638E+00	1.0719E+00
2.0	1.0051E+00	1.0066E+00	64.0	1.0286E+00	1.0029E+00	124.0	7.9601E-01	1.0797E+00
4.0	9.9937E-01	1.0048E+00	66.0	9.7905E-01	1.0035E+00	126.0	8.0319E-01	1.0914E+00
6.0	9.9333E-01	1.0021E+00	68.0	9.7057E-01	1.0019E+00	128.0	1.3393E+00	1.1048E+00
8.0	9.9228E-01	9.9855E-01	70.0	1.0308E+00	1.0026E+00	130.0	7.1059E-01	1.1195E+00
10.0	9.9969E-01	9.9855E-01	72.0	1.0143E+00	1.0043E+00	132.0	7.9937E-01	1.1443E+00
12.0	1.0089E+00	9.9954E-01	74.0	9.5156E-01	1.0040E+00	134.0	1.4370E+00	1.1521E+00
14.0	1.0084E+00	1.0011E+00	76.0	1.0012E+00	1.0029E+00	136.0	5.7770E-01	1.1873E+00
16.0	9.9685E-01	1.0015E+00	78.0	1.0472E+00	1.0059E+00	138.0	8.5210E-01	1.2279E+00
18.0	9.8856E-01	1.0004E+00	80.0	9.6276E-01	1.0067E+00	140.0	1.5530E+00	1.2217E+00
20.0	9.9581E-01	9.9834E-01	82.0	9.5799E-01	1.0045E+00	142.0	3.9520E-01	1.3116E+00
22.0	1.0098E+00	9.9976E-01	84.0	1.0578E+00	1.0066E+00	144.0	1.0019E+00	1.3558E+00
24.0	1.0102E+00	1.0010E+00	86.0	9.9678E-01	1.0097E+00	146.0	1.6906E+00	1.3348E+00
26.0	9.9540E-01	1.0012E+00	88.0	9.2020E-01	1.0074E+00	148.0	1.8859E-01	1.5542E+00
28.0	9.8838E-01	1.0003E+00	90.0	1.0437E+00	1.0083E+00	150.0	1.3156E+00	1.5409E+00
30.0	1.0009E+00	9.9880E-01	92.0	1.0398E+00	1.0132E+00	152.0	1.8889E+00	1.5622E+00
32.0	1.0119E+00	1.0006E+00	94.0	8.9616E-01	1.0117E+00	154.0	2.7800E-02	2.0487E+00
34.0	1.0009E+00	1.0013E+00	96.0	1.0118E+00	1.0113E+00	156.0	1.9035E+00	1.7950E+00
36.0	9.8669E-01	1.0007E+00	98.0	1.0823E+00	1.0178E+00	158.0	2.3807E+00	2.1597E+00
38.0	9.9724E-01	9.9997E-01	100.0	8.8425E-01	1.0177E+00	160.0	7.2400E-02	3.1152E+00
40.0	1.0154E+00	1.0006E+00	102.0	9.7023E-01	1.0165E+00	162.0	3.0700E+00	2.1628E+00
42.0	1.0053E+00	1.0016E+00	104.0	1.1216E+00	1.0244E+00	164.0	4.3881E+00	4.2154E+00
44.0	9.8289E-01	1.0012E+00	106.0	8.7763E-01	1.0260E+00	166.0	7.7392E-01	5.7760E+00
46.0	9.9261E-01	1.0002E+00	108.0	9.2449E-01	1.0248E+00	168.0	6.6175E+00	3.1109E+00
48.0	1.0178E+00	1.0009E+00	110.0	1.1605E+00	1.0344E+00	170.0	1.6614E+01	1.4998E+01
50.0	1.0057E+00	1.0020E+00	112.0	8.6755E-01	1.0377E+00	172.0	5.4827E+00	1.6443E+01
52.0	9.7798E-01	1.0015E+00	114.0	8.7807E-01	1.0379E+00	174.0	3.4962E+01	1.3875E+01
54.0	9.9516E-01	1.0005E+00	116.0	1.2053E+00	1.0495E+00	176.0	2.9061E+02	2.2686E+02
56.0	1.0247E+00	1.0016E+00	118.0	8.4413E-01	1.0545E+00	178.0	7.6174E+02	7.2564E+02
58.0	9.9938E-01	1.0027E+00	120.0	8.3494E-01	1.0589E+00	180.0	1.0204E+03	1.0204E+03
60.0	9.7038E-01	1.0017E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=31.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.8785E-01	9.8785E-01	62.0	9.8369E-01	1.0012E+00	122.0	1.2397E+00	1.0707E+00
2.0	9.9428E-01	9.9323E-01	64.0	1.0290E+00	1.0021E+00	124.0	9.1149E-01	1.0797E+00
4.0	1.0064E+00	9.9559E-01	66.0	1.0040E+00	1.0038E+00	126.0	7.0244E-01	1.0904E+00
6.0	1.0100E+00	1.0003E+00	68.0	9.6089E-01	1.0027E+00	128.0	1.3241E+00	1.1045E+00
8.0	1.0019E+00	1.0018E+00	70.0	1.0076E+00	1.0020E+00	130.0	8.3766E-01	1.1177E+00
10.0	9.9379E-01	1.0008E+00	72.0	1.0360E+00	1.0043E+00	132.0	6.7206E-01	1.1436E+00
12.0	9.5624E-01	9.9953E-01	74.0	9.6745E-01	1.0049E+00	134.0	1.4432E+00	1.1530E+00
14.0	1.0046E+00	9.9977E-01	76.0	9.6926E-01	1.0030E+00	136.0	7.0770E-01	1.1818E+00
16.0	1.0056E+00	1.0008E+00	78.0	1.0470E+00	1.0047E+00	138.0	6.9347E-01	1.2301E+00
18.0	9.9681E-01	1.0010E+00	80.0	9.9838E-01	1.0071E+00	140.0	1.5961E+00	1.2222E+00
20.0	9.9236E-01	1.0001E+00	82.0	9.3652E-01	1.0052E+00	142.0	5.1509E-01	1.3006E+00
22.0	1.0013E+00	9.9961E-01	84.0	1.0315E+00	1.0055E+00	144.0	8.1692E-01	1.3655E+00
24.0	1.0107E+00	1.0003E+00	86.0	1.0378E+00	1.0095E+00	146.0	1.7736E+00	1.3290E+00
26.0	1.0038E+00	1.0012E+00	88.0	9.2093E-01	1.0086E+00	148.0	2.8077E-01	1.5385E+00
28.0	9.8927E-01	1.0009E+00	90.0	9.9743E-01	1.0073E+00	150.0	1.1121E+00	1.5647E+00
30.0	9.5122E-01	9.989E-01	92.0	1.0735E+00	1.0123E+00	152.0	2.0255E+00	1.5363E+00
32.0	1.0064E+00	9.9995E-01	94.0	9.2181E-01	1.0131E+00	154.0	8.1552E-02	2.0383E+00
34.0	1.0118E+00	1.0010E+00	96.0	9.5417E-01	1.0108E+00	156.0	1.6859E+00	1.8359E+00
36.0	9.9394E-01	1.0013E+00	98.0	1.1015E+00	1.0164E+00	158.0	2.5579E+00	2.0873E+00
38.0	9.8708E-01	1.0004E+00	100.0	9.3249E-01	1.0190E+00	160.0	1.0123E-01	3.1430E+00
40.0	1.0057E+00	1.0001E+00	102.0	9.0738E-01	1.0163E+00	162.0	2.8330E+00	2.2037E+00
42.0	1.0144E+00	1.0012E+00	104.0	1.1245E+00	1.0227E+00	164.0	4.5649E+00	4.0519E+00
44.0	9.9297E-01	1.0015E+00	106.0	9.4514E-01	1.0272E+00	166.0	8.5425E-01	5.9327E+00
46.0	9.8226E-01	1.0005E+00	108.0	8.5846E-01	1.0247E+00	168.0	6.1984E+00	3.0503E+00
48.0	1.0072E+00	1.0004E+00	110.0	1.1492E+00	1.0326E+00	170.0	1.6757E+01	1.4643E+01
50.0	1.0186E+00	1.0016E+00	112.0	9.5207E-01	1.0387E+00	172.0	5.9663E+00	1.7070E+01
52.0	9.8925E-01	1.0020E+00	114.0	8.0675E-01	1.0376E+00	174.0	3.3195E+01	1.2967E+01
54.0	9.7999E-01	1.0009E+00	116.0	1.1844E+00	1.0478E+00	176.0	2.8897E+02	2.2481E+02
56.0	1.0150E+00	1.0009E+00	118.0	9.4466E-01	1.0552E+00	178.0	7.6836E+02	7.3157E+02
58.0	1.0178E+00	1.0025E+00	120.0	7.5278E-01	1.0578E+00	180.0	1.0333E+03	1.0333E+03
60.0	9.7607E-01	1.0025E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=32.0

ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE	ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE	ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE
0.0	9.8113E-01	9.8113E-01	62.0	9.9992E-01	1.0017E+00	122.0	1.1744E+00	1.0693E+00
2.0	9.8973E-01	9.8408E-01	64.0	1.0134E+00	1.0014E+00	124.0	1.0334E+00	1.0797E+00
4.0	1.0074E+00	9.9125E-01	66.0	1.0256E+00	1.0034E+00	126.0	6.3809E-01	1.0894E+00
6.0	1.0163E+00	9.9866E-01	68.0	9.7008E-01	1.0035E+00	128.0	1.2631E+00	1.1043E+00
8.0	1.0093E+00	1.0027E+00	70.0	9.8005E-01	1.0030E+00	130.0	9.7764E-01	1.1162E+00
10.0	9.9357E-01	1.0024E+00	72.0	1.0391E+00	1.0034E+00	132.0	5.7697E-01	1.1423E+00
12.0	9.8769E-01	1.0001E+00	74.0	9.9659E-01	1.0033E+00	134.0	1.4010E+00	1.1545E+00
14.0	9.7670E-01	9.9889E-01	76.0	9.5013E-01	1.0037E+00	136.0	8.6000E-01	1.1766E+00
16.0	1.0038E+00	9.9970E-01	78.0	1.0251E+00	1.0037E+00	138.0	5.5835E-01	1.2306E+00
18.0	1.0076E+00	1.0010E+00	80.0	1.0324E+00	1.0069E+00	140.0	1.5902E+00	1.2246E+00
20.0	9.9511E-01	1.0010E+00	82.0	9.3928E-01	1.0063E+00	142.0	6.6506E-01	1.2889E+00
22.0	9.9151E-01	1.0001E+00	84.0	9.9170E-01	1.0048E+00	144.0	6.4107E-01	1.3732E+00
24.0	1.0025E+00	9.9977E-01	86.0	1.0621E+00	1.0095E+00	146.0	1.8258E+00	1.3272E+00
26.0	1.0091E+00	1.0006E+00	88.0	9.4808E-01	1.0097E+00	148.0	4.0929E-01	1.5195E+00
28.0	9.9912E-01	1.0011E+00	90.0	9.5059E-01	1.0072E+00	150.0	9.0476E-01	1.5878E+00
30.0	9.9966E-01	1.0005E+00	92.0	1.0797E+00	1.0109E+00	152.0	2.1205E+00	1.5159E+00
32.0	9.9961E-01	9.9992E-01	94.0	9.6945E-01	1.0140E+00	154.0	1.7134E-01	2.0205E+00
34.0	1.0023E+00	1.0004E+00	96.0	9.0866E-01	1.0111E+00	156.0	1.4617E+00	1.8008E+00
36.0	1.0050E+00	1.0013E+00	98.0	1.0874E+00	1.0147E+00	158.0	2.7073E+00	2.0194E+00
38.0	9.8921E-01	1.0010E+00	100.0	9.9571E-01	1.0198E+00	160.0	1.6116E-01	3.1588E+00
40.0	9.9256E-01	1.0001E+00	102.0	8.6689E-01	1.0168E+00	162.0	2.5876E+00	2.2573E+00
42.0	1.0136E+00	1.0005E+00	104.0	1.0917E+00	1.0209E+00	164.0	4.7203E+00	3.8860E+00
44.0	1.0077E+00	1.0016E+00	106.0	1.0211E+00	1.0278E+00	166.0	9.6035E-01	6.0759E+00
46.0	9.8380E-01	1.0013E+00	108.0	8.2216E-01	1.0253E+00	168.0	5.7895E+00	3.0154E+00
48.0	9.9197E-01	1.0003E+00	110.0	1.1008E+00	1.0306E+00	170.0	1.6808E+01	1.4268E+01
50.0	1.0150E+00	1.0009E+00	112.0	1.0410E+00	1.0392E+00	172.0	6.4774E+00	1.7690E+01
52.0	1.0063E+00	1.0021E+00	114.0	7.6997E-01	1.0380E+00	174.0	3.1469E-01	1.2111E+01
54.0	9.7662E-01	1.0016E+00	116.0	1.1245E+00	1.0499E+00	176.0	2.8727E+02	2.2270E+02
56.0	9.5607E-01	1.0007E+00	118.0	1.0487E+00	1.0556E+00	178.0	7.7495E+02	7.3748E+02
58.0	1.0251E+00	1.0018E+00	120.0	7.0754E-01	1.0576E+00	180.0	1.0462E+03	1.0462E+03
60.0	9.9457E-01	1.0029E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=32.2

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.9318E-01	9.9318E-01	62.0	9.7223E-01	1.0034E+00	122.0	1.0776E+00	1.0678E+00
2.0	9.9537E-01	9.9381E-01	64.0	9.9028E-01	1.0012E+00	124.0	1.1440E+00	1.0795E+00
4.0	1.0014E+00	9.9573E-01	66.0	1.0327E+00	1.0026E+00	126.0	6.1849E-01	1.0885E+00
6.0	1.0077E+00	9.9860E-01	68.0	9.9300E-01	1.0040E+00	128.0	1.1646E+00	1.1039E+00
8.0	1.0078E+00	1.0012E+00	70.0	9.6163E-01	1.0025E+00	130.0	1.1140E+00	1.1150E+00
10.0	9.9959E-01	1.0019E+00	72.0	1.0224E+00	1.0025E+00	132.0	5.2403E-01	1.1404E+00
12.0	9.9114E-01	1.0008E+00	74.0	1.0255E+00	1.0051E+00	134.0	1.3149E+00	1.1563E+00
14.0	9.9349E-01	9.9931E-01	76.0	9.5221E-01	1.0046E+00	136.0	1.0199E+00	1.1721E+00
16.0	1.0054E+00	9.9925E-01	78.0	9.9146E-01	1.0032E+00	138.0	4.5865E-01	1.2298E+00
18.0	1.0113E+00	1.0005E+00	80.0	1.0509E+00	1.0060E+00	140.0	1.5371E+00	1.2287E+00
20.0	1.0016E+00	1.0014E+00	82.0	9.6478E-01	1.0072E+00	142.0	8.3630E-01	1.2773E+00
22.0	9.8931E-01	1.0007E+00	84.0	9.5408E-01	1.0049E+00	144.0	4.8803E-01	1.3785E+00
24.0	9.9307E-01	9.9970E-01	86.0	1.0607E+00	1.0072E+00	146.0	1.8208E+00	1.3293E+00
26.0	1.0078E+00	9.9985E-01	88.0	9.9137E-01	1.0103E+00	148.0	5.6754E-01	1.4982E+00
28.0	1.0096E+00	1.0009E+00	90.0	9.1937E-01	1.0078E+00	150.0	7.0639E-01	1.6092E+00
30.0	9.9500E-01	1.0011E+00	92.0	1.0566E+00	1.0094E+00	152.0	2.1939E+00	1.5017E+00
32.0	9.8971E-01	1.0002E+00	94.0	1.0234E+00	1.0143E+00	154.0	2.9460E-01	1.9957E+00
34.0	1.0045E+00	1.0000E+00	96.0	8.8904E-01	1.0131E+00	156.0	1.2358E+00	1.9282E+00
36.0	1.0121E+00	1.0009E+00	98.0	1.0447E+00	1.0132E+00	158.0	2.8211E+00	1.9575E+00
38.0	9.9545E-01	1.0013E+00	100.0	1.0558E+00	1.0197E+00	160.0	2.5078E-01	3.1623E+00
40.0	9.8484E-01	1.0005E+00	102.0	8.5934E-01	1.0180E+00	162.0	2.3283E+00	2.3224E+00
42.0	1.0035E+00	1.0001E+00	104.0	1.0320E+00	1.0192E+00	164.0	4.8527E+00	3.7196E+00
44.0	1.0167E+00	1.0011E+00	106.0	1.0870E+00	1.0275E+00	166.0	1.0908E+00	6.2042E+00
46.0	9.9551E-01	1.0017E+00	108.0	8.2367E-01	1.0255E+00	168.0	5.3721E+00	3.0058E+00
48.0	9.8174E-01	1.0003E+00	110.0	1.0268E+00	1.0289E+00	170.0	1.6945E+01	1.3877E+01
50.0	1.0068E+00	1.0005E+00	112.0	1.1156E+00	1.0390E+00	172.0	7.0138E+00	1.8300E+01
52.0	1.0186E+00	1.0017E+00	114.0	7.7464E-01	1.0389E+00	174.0	2.9785E+01	1.1308E+01
54.0	9.9703E-01	1.0021E+00	116.0	1.0372E+00	1.0441E+00	176.0	2.8550E+02	2.2055E+02
56.0	9.7963E-01	1.0009E+00	118.0	1.1380E+00	1.0555E+00	178.0	7.8152E+02	7.4335E+02
58.0	1.0176E+00	1.0011E+00	120.0	7.0632E-01	1.0579E+00	180.0	1.0592E+03	1.0592E+03
60.0	1.0153E+00	1.0027E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=32.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0118E+00	1.0118E+00	62.0	9.8881E-01	1.0030E+00	122.0	9.6478E-01	1.0664E+00
2.0	1.0055E+00	1.0095E+00	64.0	9.7188E-01	1.0018E+00	124.0	1.2273E+00	1.0792E+00
4.0	9.9422E-01	1.0043E+00	66.0	1.0217E+00	1.0018E+00	126.0	6.4591E-01	1.0878E+00
6.0	9.9163E-01	9.9938E-01	68.0	1.0180E+00	1.0038E+00	128.0	1.0413E+00	1.1033E+00
8.0	9.9961E-01	9.9879E-01	70.0	9.6122E-01	1.0033E+00	130.0	1.2308E+00	1.1143E+00
10.0	1.0065E+00	9.9958E-01	72.0	9.9440E-01	1.0021E+00	132.0	5.1854E-01	1.1380E+00
12.0	1.0030E+00	1.0010E+00	74.0	1.0410E+00	1.0043E+00	134.0	1.1940E+00	1.1581E+00
14.0	9.9517E-01	1.0006E+00	76.0	9.7428E-01	1.0054E+00	136.0	1.1728E+00	1.1686E+00
16.0	9.9617E-01	9.9974E-01	78.0	9.6085E-01	1.0034E+00	138.0	4.0146E-01	1.2688E+00
18.0	1.0050E+00	9.9944E-01	80.0	1.0464E+00	1.0049E+00	140.0	1.4412E+00	1.2398E+00
20.0	1.0063E+00	1.0008E+00	82.0	1.0023E+00	1.0075E+00	142.0	1.0151E+00	1.2665E+00
22.0	9.9653E-01	1.0010E+00	84.0	9.3311E-01	1.0057E+00	144.0	3.6700E-01	1.3807E+00
24.0	9.9608E-01	1.0002E+00	86.0	1.0347E+00	1.0061E+00	146.0	1.7828E+00	1.3350E+00
26.0	1.0002E+00	9.9964E-01	88.0	1.0348E+00	1.0102E+00	148.0	7.4755E-01	1.4755E+00
28.0	1.0121E+00	1.0003E+00	90.0	9.1430E-01	1.0090E+00	150.0	5.2528E-01	1.6277E+00
30.0	9.8864E-01	1.0012E+00	92.0	1.0125E+00	1.0083E+00	152.0	2.2197E+00	1.4841E+00
32.0	9.9273E-01	1.0008E+00	94.0	1.0662E+00	1.0137E+00	154.0	4.4650E-01	1.9647E+00
34.0	1.0104E+00	9.9598E-01	96.0	9.0096E-01	1.0134E+00	156.0	1.0143E+00	1.9764E+00
36.0	1.0080E+00	1.0003E+00	98.0	9.8636E-01	1.0121E+00	158.0	2.9087E+00	1.9027E+00
38.0	9.8832E-01	1.0012E+00	100.0	1.0961E+00	1.0188E+00	160.0	3.6812E-01	3.1534E+00
40.0	9.9106E-01	1.0011E+00	102.0	8.8635E-01	1.0195E+00	162.0	2.0738E+00	2.3975E+00
42.0	1.0138E+00	1.0002E+00	104.0	9.6142E-01	1.0182E+00	164.0	4.9604E+00	3.5446E+00
44.0	1.0095E+00	1.0005E+00	106.0	1.1268E+00	1.0265E+00	166.0	1.2442E+00	6.3165E+00
46.0	9.8312E-01	1.0016E+00	108.0	8.6221E-01	1.0279E+00	168.0	4.9635E+00	3.0211E+00
48.0	9.9033E-01	1.0014E+00	110.0	9.4293E-01	1.0277E+00	170.0	1.6988E+01	1.3469E+01
50.0	1.0190E+00	1.0034E+00	112.0	1.1607E+00	1.0380E+00	172.0	7.5734E+00	1.8998E+01
52.0	1.0049E+00	1.0010E+00	114.0	8.1935E-01	1.0401E+00	174.0	2.8146E+01	1.0558E+01
54.0	9.7527E-01	1.0022E+00	116.0	9.3233E-01	1.0427E+00	176.0	2.8367E+02	2.1835E+02
56.0	9.9969E-01	1.0008E+00	118.0	1.1970E+00	1.0549E+00	178.0	7.8807E+02	7.4319E+02
58.0	1.0264E+00	1.0021E+00	120.0	7.4382E-01	1.0584E+00	180.0	1.0723E+03	1.0723E+03

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=32.6

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE		
ANGLE	ANGLE	CROSS SECTION	ANGLE	ANGLE	CROSS SECTION	ANGLE	ANGLE	CROSS SECTION
0.0	62.0	1.0189E+00	62.0	1.0103E+00	1.0030E+00	122.0	8.530E-01	1.0652E+00
2.0	64.0	1.0191E+00	64.0	9.6793E-01	1.0033E+00	124.0	1.2714E+00	1.0786E+00
4.0	66.0	9.9275E-01	66.0	9.5022E-01	1.0014E+00	126.0	7.158E-01	1.0872E+00
6.0	68.0	9.8427E-01	68.0	1.0326E+00	1.0032E+00	128.0	9.0879E-01	1.1026E+00
8.0	70.0	9.9273E-01	70.0	9.7885E-01	1.0040E+00	130.0	1.3135E+00	1.1140E+00
10.0	72.0	9.9841E-01	72.0	9.6869E-01	1.0023E+00	132.0	5.6059E-01	1.1354E+00
12.0	74.0	1.0078E+00	74.0	1.0364E+00	1.0033E+00	134.0	1.0505E+00	1.1597E+00
14.0	76.0	1.0007E+00	76.0	1.0061E+00	1.0056E+00	136.0	1.3045E+00	1.1662E+00
16.0	78.0	9.9035E-01	78.0	9.4623E-01	1.0042E+00	138.0	3.9142E-01	1.2226E+00
18.0	80.0	9.9496E-01	80.0	1.0211E+00	1.0039E+00	140.0	1.3100E+00	1.2398E+00
20.0	82.0	1.0088E+00	82.0	1.0365E+00	1.0073E+00	142.0	1.1817E+00	1.2571E+00
22.0	84.0	1.0069E+00	84.0	9.3656E-01	1.0068E+00	144.0	2.8512E-01	1.3799E+00
24.0	86.0	9.9531E-01	86.0	9.9405E-01	1.0054E+00	146.0	1.6944E+00	1.3438E+00
26.0	88.0	9.9240E-01	88.0	1.0628E+00	1.0094E+00	148.0	9.4033E-01	1.4525E+00
28.0	90.0	1.0046E+00	90.0	9.3672E-01	1.0103E+00	150.0	3.6817E-01	1.6424E+00
30.0	92.0	1.0101E+00	92.0	9.6244E-01	1.0079E+00	152.0	2.2019E+00	1.4929E+00
32.0	94.0	9.9645E-01	94.0	1.0845E+00	1.0125E+00	154.0	6.2212E-01	1.9287E+00
34.0	96.0	1.0012E+00	96.0	9.4034E-01	1.0145E+00	156.0	8.0287E-01	2.0240E+00
36.0	98.0	9.8703E-01	98.0	9.3000E-01	1.0119E+00	158.0	2.9642E+00	1.8562E+00
38.0	100.0	1.0014E+00	100.0	1.1054E+00	1.0173E+00	160.0	5.1070E-01	3.1324E+00
40.0	102.0	9.9961E-01	102.0	9.4020E-01	1.0207E+00	162.0	1.8227E+00	2.4812E+00
42.0	104.0	9.8461E-01	104.0	8.9817E-01	1.0180E+00	164.0	5.0423E+00	3.3931E+00
44.0	106.0	1.0013E+00	106.0	1.1312E+00	1.0249E+00	166.0	1.4185E+00	6.4116E+00
46.0	108.0	1.0166E+00	108.0	9.2829E-01	1.0291E+00	168.0	4.5788E+00	3.0606E+00
48.0	110.0	9.9525E-01	110.0	8.6903E-01	1.0272E+00	170.0	1.6997E+01	1.3049E+01
50.0	112.0	9.8032E-01	112.0	1.1673E+00	1.0364E+00	172.0	8.1541E+00	1.9483E+01
52.0	114.0	1.0075E+00	114.0	8.9470E-01	1.0412E+00	174.0	2.6552E+01	9.8583E+00
54.0	116.0	1.0191E+00	116.0	8.4913E-01	1.0418E+00	176.0	2.8178E+02	2.1610E+02
56.0	118.0	9.8508E-01	118.0	1.2155E+00	1.0537E+00	178.0	7.9459E+02	7.5500E+02
58.0	120.0	9.0169E-01	120.0	8.2744E-01	1.0591E+00	180.0	1.0854E+03	1.0854E+03
60.0		1.0217E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=32.8

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE		
ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE
0.0	1.0078E+00	62.0	1.0251E+00	122.0	7.6135E-01	1.0644E+00	1.0644E+00	
2.0	1.0052E+00	64.0	9.8044E-01	124.0	1.2704E+00	1.0778E+00	1.0778E+00	
4.0	9.9859E-01	66.0	9.7664E-01	126.0	8.1855E-01	1.0868E+00	1.0868E+00	
6.0	9.9249E-01	68.0	1.0299E+00	128.0	7.8451E-01	1.1017E+00	1.1017E+00	
8.0	9.9323E-01	70.0	1.0055E+00	130.0	1.3556E+00	1.1139E+00	1.1139E+00	
10.0	1.0020E+00	72.0	9.5725E-01	132.0	6.4519E-01	1.1326E+00	1.1326E+00	
12.0	1.0096E+00	74.0	1.0140E+00	134.0	8.9915E-01	1.1607E+00	1.1607E+00	
14.0	1.0054E+00	76.0	1.0333E+00	136.0	1.4036E+00	1.1652E+00	1.1652E+00	
16.0	9.9344E-01	78.0	9.5348E-01	138.0	4.2901E-01	1.2171E+00	1.2171E+00	
18.0	9.9013E-01	80.0	9.8590E-01	140.0	1.1537E+00	1.2457E+00	1.2457E+00	
20.0	1.0015E+00	82.0	1.0537E+00	142.0	1.3481E+00	1.2966E+00	1.2966E+00	
22.0	1.0113E+00	84.0	9.6271E-01	144.0	2.4711E-01	1.3758E+00	1.3758E+00	
24.0	1.0039E+00	86.0	9.5439E-01	146.0	1.5728E+00	1.3551E+00	1.3551E+00	
26.0	9.9057E-01	88.0	1.0655E+00	148.0	1.1364E+00	1.4302E+00	1.4302E+00	
28.0	9.9375E-01	90.0	9.7851E-01	150.0	2.4392E-01	1.6527E+00	1.6527E+00	
30.0	1.0081E+00	92.0	9.2337E-01	152.0	2.1503E+00	1.4982E+00	1.4982E+00	
32.0	1.0072E+00	94.0	1.0729E+00	154.0	8.1559E-01	1.8866E+00	1.8866E+00	
34.0	9.9137E-01	96.0	9.9471E-01	156.0	6.0721E-01	2.0695E+00	2.0695E+00	
36.0	9.9151E-01	98.0	8.9219E-01	158.0	2.9863E+00	1.8188E+00	1.8188E+00	
38.0	1.0100E+00	100.0	1.0318E+00	160.0	6.7559E-01	3.0996E+00	3.0996E+00	
40.0	1.0105E+00	102.0	1.0060E+00	162.0	1.5784E+00	2.5719E+00	2.5719E+00	
42.0	9.8863E-01	104.0	8.5840E-01	164.0	5.0976E+00	3.2368E+00	3.2368E+00	
44.0	9.8808E-01	106.0	1.0996E+00	166.0	1.6121E+00	5.4887E+00	5.4887E+00	
46.0	1.0125E+00	108.0	1.0061E+00	168.0	4.1962E+00	3.1237E+00	3.1237E+00	
48.0	1.0102E+00	110.0	8.2084E-01	170.0	1.6973E+01	1.2617E+01	1.2617E+01	
50.0	9.8283E-01	112.0	1.1338E+00	172.0	8.7535E+00	2.0052E+01	2.0052E+01	
52.0	9.9137E-01	114.0	9.8535E-01	174.0	2.5005E+01	9.2133E+00	9.2133E+00	
54.0	1.0210E+00	116.0	7.8360E-01	176.0	2.7982E+02	2.1381E+02	2.1381E+02	
56.0	1.0027E+00	118.0	1.1909E+00	178.0	8.0108E+02	7.6077E+02	7.6077E+02	
58.0	9.7388E-01	120.0	9.2873E-01	180.0	1.0986E+03	1.0986E+03	1.0986E+03	
60.0	1.0043E+00							

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=33.0

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
ANGLE	E-PLANE		ANGLE	H-PLANE		ANGLE	E-PLANE	
		H-PLANE			H-PLANE			H-PLANE
0.0	9.8972E-01	9.8972E-01	62.0	1.0254E+00	1.0017E+00	122.0	7.0219E-01	1.0638E+00
2.0	9.9572E-01	9.9191E-01	64.0	1.0025E+00	1.0032E+00	124.0	1.2249E+00	1.0769E+00
4.0	1.0061E+00	9.9675E-01	66.0	9.6607E-01	1.0032E+00	126.0	9.3976E-01	1.0865E+00
6.0	1.0000E+00	1.0007E+00	68.0	1.0114E+00	1.0017E+00	128.0	6.8353E-01	1.1006E+00
8.0	9.9996E-01	1.0016E+00	70.0	1.0280E+00	1.0038E+00	130.0	1.3498E+00	1.1141E+00
10.0	9.9427E-01	1.0004E+00	72.0	9.6508E-01	1.0039E+00	132.0	7.6272E-01	1.1299E+00
12.0	9.9880E-01	9.9951E-01	74.0	9.8435E-01	1.0024E+00	134.0	7.5485E-01	1.1609E+00
14.0	1.0056E+00	1.0001E+00	76.0	1.0438E+00	1.0044E+00	136.0	1.4609E+00	1.1654E+00
16.0	1.0028E+00	1.0009E+00	78.0	9.7913E-01	1.0038E+00	138.0	5.1032E-01	1.2108E+00
18.0	9.9432E-01	1.0005E+00	80.0	9.5560E-01	1.0038E+00	140.0	9.8433E-01	1.2511E+00
20.0	9.9506E-01	9.9978E-01	82.0	1.0473E+00	1.0032E+00	142.0	1.4796E+00	1.2444E+00
22.0	1.0059E+00	9.9981E-01	84.0	1.0011E+00	1.0081E+00	144.0	2.5433E-01	1.3688E+00
24.0	1.0089E+00	1.0008E+00	86.0	9.3062E-01	1.0061E+00	146.0	1.4198E+00	1.3679E+00
26.0	9.9647E-01	1.0011E+00	88.0	1.0426E+00	1.0059E+00	148.0	1.3260E+00	1.4096E+00
28.0	9.8853E-01	1.0003E+00	90.0	1.0249E+00	1.0110E+00	150.0	1.5510E-01	1.6580E+00
30.0	1.0003E+00	9.9976E-01	92.0	9.0816E-01	1.0093E+00	152.0	2.0582E+00	1.5093E+00
32.0	1.0123E+00	1.0005E+00	94.0	1.0355E+00	1.0037E+00	154.0	1.0205E+00	1.8458E+00
34.0	1.0018E+00	1.0012E+00	96.0	1.0471E+00	1.0132E+00	156.0	4.3240E-01	2.1114E+00
36.0	9.8767E-01	1.0007E+00	98.0	8.8375E-01	1.0136E+00	158.0	2.9747E+00	1.7912E+00
38.0	9.5822E-01	1.0000E+00	100.0	1.0323E+00	1.0142E+00	160.0	8.5944E-01	3.0558E+00
40.0	1.0135E+00	1.0007E+00	102.0	1.0658E+00	1.0211E+00	162.0	1.3444E+00	2.6679E+00
42.0	1.0004E+00	1.0014E+00	104.0	8.5197E-01	1.0157E+00	164.0	5.1256E+00	3.0875E+00
44.0	9.8335E-01	1.0008E+00	106.0	1.0403E+00	1.0214E+00	166.0	1.8228E+00	6.5471E+00
46.0	1.0003E+00	1.0002E+00	108.0	1.0774E+00	1.0238E+00	168.0	3.8257E+00	3.2093E+00
48.0	1.0180E+00	1.0011E+00	110.0	8.0867E-01	1.0285E+00	170.0	1.6916E+01	1.2175E+01
50.0	9.9572E-01	1.0018E+00	112.0	1.0686E+00	1.0328E+00	172.0	9.3689E+00	2.0604E+01
52.0	9.8036E-01	1.0009E+00	114.0	1.0731E+00	1.0423E+00	174.0	2.3506E+01	8.6216E+01
54.0	1.0096E+00	1.0007E+00	116.0	7.5465E-01	1.0419E+00	176.0	2.7781E+02	2.1148E+02
56.0	1.0179E+00	1.0020E+00	118.0	1.1280E+00	1.0504E+00	178.0	8.0755E+02	7.6851E+02
58.0	9.8070E-01	1.0022E+00	120.0	1.0357E+00	1.0601E+00	180.0	1.1120E+03	1.1120E+03
60.0	9.8443E-01	1.0010E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=33.2

ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE	ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE	ANGLE	NORMALIZED E-PLANE	CROSS SECTION H-PLANE
0.0	9.8238E-01	9.8238E-01	62.0	1.0114E+00	1.0012E+00	122.0	6.8500E-01	1.0837E+00
2.0	9.9103E-01	9.8537E-01	64.0	1.0221E+00	1.0039E+00	124.0	1.1421E+00	1.0757E+00
4.0	1.0081E+00	9.9247E-01	66.0	9.7235E-01	1.0039E+00	126.0	1.0628E+00	1.0863E+00
6.0	1.0157E+00	9.9943E-01	68.0	9.8657E-01	1.0016E+00	128.0	6.1857E-01	1.0594E+00
8.0	1.0063E+00	1.0027E+00	70.0	1.0353E+00	1.0030E+00	130.0	1.2983E+00	1.1144E+00
10.0	9.9188E-01	1.0018E+00	72.0	9.8804E-01	1.0044E+00	132.0	9.0031E-01	1.1276E+00
12.0	9.8985E-01	9.9968E-01	74.0	9.6120E-01	1.0028E+00	134.0	6.3202E-01	1.1603E+00
14.0	1.0015E+00	9.9904E-01	76.0	1.0334E+00	1.0034E+00	136.0	1.4716E+00	1.1666E+00
16.0	1.0099E+00	1.0002E+00	78.0	1.0119E+00	1.0060E+00	138.0	6.2906E-01	1.2041E+00
18.0	1.0032E+00	1.0011E+00	80.0	9.4299E-01	1.0046E+00	140.0	8.1502E-01	1.2554E+00
20.0	9.9265E-01	1.0006E+00	82.0	1.0205E+00	1.0043E+00	142.0	1.5752E+00	1.2417E+00
22.0	9.9561E-01	9.9961E-01	84.0	1.0368E+00	1.0078E+00	144.0	3.0759E-01	1.3592E+00
24.0	1.0067E+00	1.0000E+00	86.0	9.3138E-01	1.0071E+00	146.0	1.2431E+00	1.3815E+00
26.0	1.0055E+00	1.0009E+00	88.0	1.0027E+00	1.0060E+00	148.0	1.5000E+00	1.3916E+00
28.0	9.9290E-01	1.0008E+00	90.0	1.0596E+00	1.0104E+00	150.0	1.0625E-01	1.6580E+00
30.0	9.9256E-01	9.9993E-01	92.0	9.2143E-01	1.0105E+00	152.0	1.9320E+00	1.5258E+00
32.0	1.0078E+00	1.0000E+00	94.0	9.8472E-01	1.0089E+00	154.0	1.2302E+00	1.8016E+00
34.0	1.0103E+00	1.0010E+00	96.0	1.0813E+00	1.0143E+00	156.0	2.8292E-01	2.1486E+00
36.0	9.9259E-01	1.0011E+00	98.0	9.6667E-01	1.0149E+00	158.0	2.9256E+00	1.7737E+00
38.0	9.8796E-01	1.0003E+00	100.0	9.7114E-01	1.0133E+00	160.0	1.0586E+00	3.0017E+00
40.0	1.0072E+00	1.0002E+00	102.0	1.1036E+00	1.0202E+00	162.0	1.1239E+00	2.7674E+00
42.0	1.0118E+00	1.0012E+00	104.0	8.8007E-01	1.0210E+00	164.0	5.1260E+00	2.9468E+00
44.0	9.8996E-01	1.0013E+00	106.0	9.6802E-01	1.0202E+00	166.0	2.0485E+00	6.5863E+00
46.0	9.8795E-01	1.0004E+00	108.0	1.1257E+00	1.0290E+00	168.0	3.4791E+00	3.3165E+00
48.0	1.0136E+00	1.0006E+00	110.0	8.3478E-01	1.0297E+00	170.0	1.6826E+01	1.1728E+01
50.0	1.0105E+00	1.0017E+00	112.0	9.8546E-01	1.0313E+00	172.0	9.9998E+00	2.1137E+01
52.0	9.8120E-01	1.0015E+00	114.0	1.1408E+00	1.0419E+00	174.0	2.2056E+01	8.0831E+00
54.0	9.9225E-01	1.0006E+00	116.0	7.6729E-01	1.047E+00	176.0	2.7573E+02	2.0910E+02
56.0	1.0218E+00	1.0014E+00	118.0	1.0384E+00	1.0488E+00	178.0	8.1398E+02	7.7321E+02
58.0	9.9611E-01	1.0025E+00	120.0	1.1305E+00	1.0601E+00	180.0	1.1254E+03	1.1264E+03
60.0	9.7329E-01	1.0015E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=33.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.9258E-01	9.9258E-01	62.0	9.9075E-01	1.0010E+00	122.0	7.1198E-01	1.0638E+00
2.0	9.9327E-01	9.9342E-01	64.0	9.9287E+00	1.0022E+00	124.0	1.0345E+00	1.0745E+00
4.0	1.0024E+00	9.9382E-01	66.0	9.9181E-01	1.0033E+00	126.0	1.1710E+00	1.0860E+00
6.0	1.0084E+00	9.9901E-01	68.0	9.6801E-01	1.0022E+00	128.0	5.9745E-01	1.0982E+00
8.0	1.0066E+00	1.0014E+00	70.0	1.0243E+00	1.0022E+00	130.0	1.2074E+00	1.1146E+00
10.0	9.9735E-01	1.0018E+00	72.0	1.0152E+00	1.0044E+00	132.0	1.0427E+00	1.1258E+00
12.0	9.9092E-01	1.0003E+00	74.0	9.5520E-01	1.0039E+00	134.0	5.4265E-01	1.1588E+00
14.0	9.9665E-01	9.9916E-01	76.0	1.0072E+00	1.0027E+00	136.0	1.4352E+00	1.1887E+00
16.0	1.0082E+00	9.9859E-01	78.0	1.0377E+00	1.0055E+00	138.0	7.7407E-01	1.1976E+00
18.0	1.0088E+00	1.0009E+00	80.0	9.5285E-01	1.0059E+00	140.0	6.5829E-01	1.2582E+00
20.0	9.9636E-01	1.0012E+00	82.0	9.8441E-01	1.0039E+00	142.0	1.6288E+00	1.2416E+00
22.0	9.9949E-01	1.0002E+00	84.0	1.0558E+00	1.0069E+00	144.0	4.0176E-01	1.3475E+00
24.0	9.9965E-01	9.9962E-01	86.0	9.5589E-01	1.0081E+00	146.0	1.0555E+00	1.3949E+00
26.0	1.0103E+00	1.0003E+00	88.0	9.6035E-01	1.0059E+00	148.0	1.6499E+00	1.3770E+00
28.0	1.0028E+00	1.0010E+00	90.0	1.0708E+00	1.0093E+00	150.0	9.8855E-02	1.6527E+00
30.0	9.9045E-01	1.0006E+00	92.0	9.5826E-01	1.0113E+00	152.0	1.7765E+00	1.5457E+00
32.0	9.9710E-01	9.9994E-01	94.0	9.3704E-01	1.0088E+00	154.0	1.4378E+00	1.7574E+00
34.0	1.0108E+00	1.0004E+00	96.0	1.0873E+00	1.0129E+00	156.0	1.6256E-01	2.1798E+00
36.0	1.0031E+00	1.0012E+00	98.0	9.5376E-01	1.0160E+00	158.0	2.8521E+00	1.7685E+00
38.0	9.8684E-01	1.0008E+00	100.0	9.1594E-01	1.0137E+00	160.0	1.2692E+00	2.9385E+00
40.0	9.9610E-01	1.0000E+00	102.0	1.1096E+00	1.0187E+00	162.0	9.1993E-01	2.8686E+00
42.0	1.0147E+00	1.0006E+00	104.0	9.3506E-01	1.0222E+00	164.0	5.0983E+00	2.8163E+00
44.0	1.0029E+00	1.0015E+00	106.0	9.0966E-01	1.0198E+00	166.0	2.2868E+00	6.6059E+00
46.0	9.8335E-01	1.0009E+00	108.0	1.1402E+00	1.0276E+00	168.0	3.1462E+00	3.4441E+00
48.0	1.0000E+00	1.0003E+00	110.0	8.9297E-01	1.0310E+00	170.0	1.6703E+01	1.1271E+01
50.0	1.0179E+00	1.0013E+00	112.0	9.0213E-01	1.0304E+00	172.0	1.0842E+01	2.1649E+01
52.0	9.9336E-01	1.0019E+00	114.0	1.1752E+00	1.0409E+00	174.0	2.0655E+01	7.5979E+01
54.0	9.7979E-01	1.0009E+00	116.0	8.1668E-01	1.0438E+00	176.0	2.7360E+02	2.0689E+02
56.0	1.0126E+00	1.0008E+00	118.0	9.3828E-01	1.0474E+00	178.0	8.2039E+02	7.7688E+02
58.0	1.0159E+00	1.0022E+00	120.0	1.1976E+00	1.0597E+00	180.0	1.1388E+03	1.1388E+03
60.0	9.7674E-01	1.0021E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=33.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0100E+00	1.0100E+00	62.0	9.7478E-01	1.0014E+00	122.0	7.7841E-01	1.0642E+00
2.0	1.0042E+00	1.0079E+00	64.0	1.0192E+00	1.0015E+00	124.0	9.1706E-01	1.0733E+00
4.0	9.9451E-01	1.0032E+00	66.0	1.0143E+00	1.0033E+00	126.0	1.2496E+00	1.0858E+00
6.0	9.9553E-01	9.9966E-01	68.0	9.6503E-01	1.0027E+00	128.0	6.2238E-01	1.0970E+00
8.0	1.0013E+00	9.9908E-01	70.0	1.0008E+00	1.0018E+00	130.0	1.0892E+00	1.1147E+00
10.0	1.0057E+00	1.0003E+00	72.0	1.0338E+00	1.0038E+00	132.0	1.1743E+00	1.1245E+00
12.0	1.0005E+00	1.0010E+00	74.0	9.6881E-01	1.0043E+00	134.0	4.9534E-01	1.1565E+00
14.0	9.9481E-01	1.0003E+00	76.0	9.7718E-01	1.0027E+00	136.0	1.3554E+00	1.1714E+00
16.0	9.9908E-01	9.9965E-01	78.0	1.0455E+00	1.0046E+00	138.0	9.3331E-01	1.1915E+00
18.0	1.0066E+00	1.0001E+00	80.0	9.8063E-01	1.0062E+00	140.0	5.2599E-01	1.2591E+00
20.0	1.0034E+00	1.0009E+00	82.0	9.5354E-01	1.0042E+00	142.0	1.6366E+00	1.2439E+00
22.0	9.9281E-01	1.0007E+00	84.0	1.0510E+00	1.0058E+00	144.0	5.3099E-01	1.3344E+00
24.0	9.9345E-01	9.9983E-01	86.0	9.9451E-01	1.0086E+00	146.0	8.6629E-01	1.4072E+00
26.0	1.0067E+00	9.9984E-01	88.0	9.3092E-01	1.0084E+00	148.0	1.7619E+00	1.3663E+00
28.0	1.0099E+00	1.0008E+00	90.0	1.0550E+00	1.0079E+00	150.0	1.3247E-01	1.6422E+00
30.0	9.9549E-01	1.0011E+00	92.0	1.0060E+00	1.0119E+00	152.0	1.5977E+00	1.5711E+00
32.0	9.8890E-01	1.0003E+00	94.0	9.0775E-01	1.0095E+00	154.0	1.6355E+00	1.7146E+00
34.0	1.0034E+00	9.9996E-01	96.0	1.0635E+00	1.0114E+00	156.0	7.4313E-02	2.2041E+00
36.0	1.0112E+00	1.0008E+00	98.0	1.0109E+00	1.0164E+00	158.0	2.7442E+00	1.7695E+00
38.0	9.9532E-01	1.0011E+00	100.0	8.8217E-01	1.0138E+00	160.0	1.4871E+00	2.8674E+00
40.0	9.8795E-01	1.0004E+00	102.0	1.0827E+00	1.0171E+00	162.0	7.3524E-01	2.9698E+00
42.0	1.0071E+00	1.0002E+00	104.0	1.0025E+00	1.0229E+00	164.0	5.0446E+00	2.6973E+00
44.0	1.0131E+00	1.0012E+00	106.0	8.5539E-01	1.0202E+00	166.0	2.5355E+00	6.6059E+00
46.0	9.8949E-01	1.0014E+00	108.0	1.1179E+00	1.0259E+00	168.0	2.8328E+00	3.5906E+00
48.0	9.8657E-01	1.0005E+00	110.0	9.6944E-01	1.0319E+00	170.0	1.6549E+01	1.0813E+01
50.0	1.0138E+00	1.0007E+00	112.0	8.3607E-01	1.0301E+00	172.0	1.1295E-01	2.2139E+01
52.0	1.0092E+00	1.0018E+00	114.0	1.1699E+00	1.0393E+00	174.0	1.9306E-01	7.1658E+00
54.0	9.7956E-01	1.0015E+00	116.0	8.9871E-01	1.0448E+00	176.0	2.7141E+02	2.0424E+02
56.0	9.9580E-01	1.0006E+00	118.0	8.4539E-01	1.0465E+00	178.0	8.2676E+02	7.8351E+02
58.0	1.0236E+00	1.0017E+00	120.0	1.2262E+00	1.0588E+00	180.0	1.1524E+03	1.1524E+03
60.0	9.9240E-01	1.0025E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BI-STATIC SCATTERING FROM CONDUCTING SPHERE

KA=33.8

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE		
ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE
0.0	1.0176E+00	52.0	1.0176E+00	122.0	1.0648E+00	8.7353E-01	1.0648E+00	
2.0	1.0088E+00	64.0	1.0146E+00	124.0	1.0722E+00	8.0935E-01	1.0722E+00	
4.0	9.9213E-01	66.0	1.0074E+00	126.0	1.0855E+00	1.2885E+00	1.0855E+00	
6.0	9.8559E-01	68.0	1.0007E+00	128.0	1.0959E+00	6.8975E-01	1.0959E+00	
8.0	9.9554E-01	70.0	9.7660E-01	130.0	1.1144E+00	9.5493E-01	1.1144E+00	
10.0	1.0091E+00	72.0	1.0350E+00	132.0	1.1239E+00	1.2813E+00	1.1239E+00	
12.0	1.0093E+00	74.0	9.9533E-01	134.0	1.1535E+00	4.9442E-01	1.1535E+00	
14.0	9.9728E-01	76.0	1.0014E+00	136.0	1.1741E+00	1.2398E+00	1.1741E+00	
16.0	9.9103E-01	78.0	1.0002E+00	138.0	1.1865E+00	1.0934E+00	1.1865E+00	
18.0	9.9930E-01	80.0	9.9953E-01	140.0	1.2581E+00	4.2795E-01	1.2581E+00	
20.0	1.0080E+00	82.0	1.0002E+00	142.0	1.2484E+00	1.5991E+00	1.2484E+00	
22.0	1.0023E+00	84.0	1.0247E+00	144.0	1.3207E+00	6.8712E-01	1.3207E+00	
24.0	9.9266E-01	86.0	1.0265E+00	146.0	1.4177E+00	6.8591E-01	1.4177E+00	
26.0	9.9750E-01	88.0	9.2488E-01	148.0	1.3598E+00	1.8501E+00	1.3598E+00	
28.0	1.0085E+00	90.0	1.0182E+00	150.0	1.6270E+00	2.0681E-01	1.6270E+00	
30.0	1.0040E+00	92.0	1.0487E+00	152.0	1.5978E+00	1.4023E+00	1.5978E+00	
32.0	9.8967E-01	94.0	9.0603E-01	154.0	1.6743E+00	1.8201E+00	1.6743E+00	
34.0	9.9403E-01	96.0	1.0180E+00	156.0	2.3209E+00	2.0241E-02	2.3209E+00	
36.0	1.0111E+00	98.0	1.0611E+00	158.0	1.7823E+00	2.603E+00	1.7823E+00	
38.0	1.0067E+00	100.0	8.7997E-01	160.0	2.7898E+00	1.7091E+00	2.7898E+00	
40.0	9.8796E-01	102.0	1.0307E+00	162.0	3.0691E+00	5.7279E-01	3.0691E+00	
42.0	9.9436E-01	104.0	1.0648E+00	164.0	2.5911E+00	4.9639E+00	2.5911E+00	
44.0	1.0140E+00	106.0	8.4214E-01	166.0	6.5863E+00	2.7921E+00	6.5863E+00	
46.0	1.0023E+00	108.0	1.0645E+00	168.0	3.7547E+00	2.5402E+00	3.7547E+00	
48.0	9.8207E-01	110.0	1.0484E+00	170.0	1.0354E+01	1.6355E+01	1.0354E+01	
50.0	1.0005E+00	112.0	8.0088E-01	172.0	2.3605E+01	1.1955E+01	2.3605E+01	
52.0	1.0188E+00	114.0	1.1264E+00	174.0	6.7866E+00	1.8008E+01	6.7866E+00	
54.0	9.9120E-01	116.0	9.9203E-01	176.0	2.0175E+02	2.6916E+02	2.0175E+02	
56.0	9.8125E-01	118.0	7.7604E-01	178.0	7.8910E+02	8.3310E+02	7.8910E+02	
58.0	1.0165E+00	120.0	1.2120E+00	180.0	1.1660E+03	1.1660E+03	1.1660E+03	
60.0	1.0113E+00							

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=34.0

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE		
ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	CROSS SECTION
0.0	1.0082E+00	62.0	1.0026E+00	122.0	1.0649E+00
2.0	1.0051E+00	64.0	9.7930E-01	124.0	1.0713E+00
4.0	9.9764E-01	66.0	1.0268E+00	126.0	1.0850E+00
6.0	9.9195E-01	68.0	1.0023E+00	128.0	1.0949E+00
8.0	9.9449E-01	70.0	9.6331E-01	130.0	1.1138E+00
10.0	1.0041E+00	72.0	1.0187E+00	132.0	1.1238E+00
12.0	1.0093E+00	74.0	1.0223E+00	134.0	1.1501E+00
14.0	1.0021E+00	76.0	9.5427E-01	136.0	1.1767E+00
16.0	9.9143E-01	78.0	1.0038E+00	138.0	1.1827E+00
18.0	9.9334E-01	80.0	1.0401E+00	140.0	1.2552E+00
20.0	1.0063E+00	82.0	9.4954E-01	142.0	1.5186E+00
22.0	1.0096E+00	84.0	9.8765E-01	144.0	8.6030E-01
24.0	9.9756E-01	86.0	1.0561E+00	146.0	5.2390E-01
26.0	9.9041E-01	88.0	9.4410E-01	148.0	1.8911E+00
28.0	1.0011E+00	90.0	9.7358E-01	150.0	3.1638E-01
30.0	1.0095E+00	92.0	1.0722E+00	152.0	1.1976E+00
32.0	9.9857E-01	94.0	9.3199E-01	154.0	1.9826E+00
34.0	9.8933E-01	96.0	9.6497E-01	156.0	1.6287E-03
36.0	1.0026E+00	98.0	1.0897E+00	158.0	2.4475E+00
38.0	1.0127E+00	100.0	9.0701E-01	160.0	1.9275E+00
40.0	9.9235E-01	102.0	9.6785E-01	162.0	4.332E-01
42.0	9.8576E-01	104.0	1.1061E+00	164.0	4.8577E+00
44.0	1.0055E+00	106.0	8.6400E-01	166.0	3.0541E+00
46.0	1.0134E+00	108.0	9.9291E-01	168.0	2.2700E+00
48.0	9.8913E-01	110.0	1.1110E+00	170.0	1.6150E+01
50.0	9.8752E-01	112.0	8.0355E-01	172.0	1.2630E+01
52.0	1.0161E+00	114.0	1.0539E+00	174.0	1.6763E+01
54.0	1.0073E+00	116.0	1.0811E+00	176.0	2.6686E+02
56.0	9.7744E-01	118.0	7.4220E-01	178.0	8.3941E+02
58.0	1.0002E+00	120.0	1.1579E+00	180.0	1.1797E+03
60.0	1.0230E+00				

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=34.2

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE		
ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE
0.0	9.9142E-01	62.0	1.0043E+00	1.0027E+00	1.0851E+00	122.0	1.0876E+00	1.0706E+00
2.0	9.9636E-01	64.0	9.7029E-01	1.0019E+00	6.7599E-01	124.0	6.7599E-01	1.0706E+00
4.0	1.0057E+00	66.0	1.0107E+00	1.0014E+00	1.2336E+00	126.0	1.2336E+00	1.0843E+00
6.0	1.0061E+00	68.0	1.0232E+00	1.0033E+00	9.1203E-01	128.0	9.1203E-01	1.0942E+00
8.0	9.9852E-01	70.0	9.6709E-01	1.0032E+00	7.0832E-01	130.0	7.0832E-01	1.1128E+00
10.0	9.9527E-01	72.0	9.9266E-01	1.0020E+00	1.3745E+00	132.0	1.3745E+00	1.1242E+00
12.0	1.0010E+00	74.0	1.0373E+00	1.0039E+00	6.2595E-01	134.0	6.2595E-01	1.1465E+00
14.0	1.0033E+00	76.0	9.7110E-01	1.0047E+00	9.4631E-01	136.0	9.4631E-01	1.1787E+00
16.0	9.9986E-01	78.0	9.7306E-01	1.0030E+00	1.3635E+00	138.0	1.3635E+00	1.1804E+00
18.0	9.9354E-01	80.0	1.0473E+00	1.0049E+00	3.5976E-01	140.0	3.5976E-01	1.2504E+00
20.0	9.9895E-01	82.0	9.7751E-01	1.0066E+00	1.4010E+00	142.0	1.4010E+00	1.2615E+00
22.0	1.0084E+00	84.0	9.5440E-01	1.0048E+00	1.0397E+00	144.0	1.0397E+00	1.2944E+00
24.0	1.0042E+00	86.0	1.0564E+00	1.0066E+00	3.8927E-01	146.0	3.8927E-01	1.4305E+00
26.0	9.9145E-01	88.0	9.8120E-01	1.0091E+00	1.8875E+00	148.0	1.8875E+00	1.3601E+00
28.0	9.9308E-01	90.0	9.3673E-01	1.0068E+00	4.5817E-01	150.0	4.5817E-01	1.5852E+00
30.0	1.0079E+00	92.0	1.0689E+00	1.0093E+00	9.9138E-01	152.0	9.9138E-01	1.6534E+00
32.0	1.0093E+00	94.0	9.7683E-01	1.0125E+00	2.1108E+00	154.0	2.1108E+00	1.6063E+00
34.0	9.9243E-01	96.0	9.2080E-01	1.0099E+00	1.8552E-02	156.0	1.8552E-02	2.297E+00
36.0	9.9207E-01	98.0	1.0885E+00	1.0137E+00	2.2654E+00	158.0	2.2654E+00	1.8351E+00
38.0	1.0092E+00	100.0	9.5765E-01	1.0173E+00	2.1424E+00	160.0	2.1424E+00	2.6209E+00
40.0	1.0070E+00	102.0	9.1127E-01	1.0146E+00	3.1978E-01	162.0	3.1978E-01	3.2555E+00
42.0	9.8731E-01	104.0	1.1161E+00	1.0206E+00	4.7272E+00	164.0	4.7272E+00	2.4207E+00
44.0	9.9357E-01	106.0	9.1516E-01	1.0237E+00	3.3190E+00	166.0	3.3190E+00	6.4896E+00
46.0	1.0152E+00	108.0	9.2002E-01	1.0220E+00	2.0233E+00	168.0	2.0233E+00	4.1294E+00
48.0	1.0027E+00	110.0	1.1442E+00	1.0309E+00	1.5907E+01	170.0	1.5907E+01	9.4402E+00
50.0	9.8179E-01	112.0	8.4310E-01	1.0328E+00	1.3289E+01	172.0	1.3289E+01	2.3480E+01
52.0	1.0030E+00	114.0	9.6719E-01	1.0344E+00	1.5572E+01	174.0	1.5572E+01	6.1857E+01
54.0	1.0182E+00	116.0	1.1492E+00	1.0453E+00	2.6451E+02	176.0	2.6451E+02	1.9667E+02
56.0	9.8658E-01	118.0	7.4948E-01	1.0467E+00	8.4568E+02	178.0	8.4568E+02	9.0017E+02
58.0	9.6334E-01	120.0	1.0732E+00	1.0545E+00	1.1935E+03	180.0	1.1935E+03	1.1935E+03
60.0	1.0212E+00							

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=34.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.8360E-01	9.8360E-01	62.0	1.0208E+00	1.0024E+00	122.0	1.1732E+00	1.0650E+00			
2.0	9.9255E-01	9.8660E-01	64.0	9.7643E-01	1.0025E+00	124.0	6.6994E-01	1.0703E+00			
4.0	1.0066E+00	9.9358E-01	66.0	9.8858E-01	1.0013E+00	126.0	1.1482E+00	1.0836E+00			
6.0	1.0142E+00	1.0000E+00	68.0	1.0311E+00	1.0026E+00	128.0	1.0383E+00	1.0937E+00			
8.0	1.0036E+00	1.0025E+00	70.0	9.8584E-01	1.0037E+00	130.0	6.2480E-01	1.1115E+00			
10.0	9.9101E-01	1.0013E+00	72.0	9.6962E-01	1.0022E+00	132.0	1.3608E+00	1.1249E+00			
12.0	9.9250E-01	9.9401E-01	74.0	1.0339E+00	1.0031E+00	134.0	7.4427E-01	1.1430E+00			
14.0	1.0044E+00	9.9931E-01	76.0	9.9932E-01	1.0050E+00	136.0	7.9659E-01	1.1798E+00			
16.0	1.0085E+00	1.0005E+00	78.0	9.5320E-01	1.0035E+00	138.0	1.4512E+00	1.1796E+00			
18.0	9.9910E-01	1.0010E+00	80.0	1.0333E+00	1.0040E+00	140.0	3.9422E-01	1.2441E+00			
20.0	9.9265E-01	1.0002E+00	82.0	1.0125E+00	1.0069E+00	142.0	1.2547E+00	1.2690E+00			
22.0	1.0033E+00	9.9978E-01	84.0	9.3774E-01	1.0053E+00	144.0	1.2141E+00	1.2833E+00			
24.0	1.0076E+00	1.0004E+00	86.0	1.0338E+00	1.0055E+00	146.0	2.8908E-01	1.4319E+00			
26.0	9.9977E-01	1.0009E+00	88.0	1.0225E+00	1.0092E+00	148.0	1.8457E+00	1.3655E+00			
28.0	9.9101E-01	1.0004E+00	90.0	9.2025E-01	1.0076E+00	150.0	6.2434E-01	1.5803E+00			
30.0	1.0001E+00	9.9965E-01	92.0	1.0403E+00	1.0081E+00	152.0	7.9044E-01	1.6799E+00			
32.0	1.0112E+00	1.0005E+00	94.0	1.0259E+00	1.0127E+00	154.0	2.2244E+00	1.5805E+00			
34.0	1.0308E+00	1.0011E+00	96.0	8.9896E-01	1.0107E+00	156.0	7.0286E-02	2.2215E+00			
36.0	9.8757E-01	1.0006E+00	98.0	1.0584E+00	1.0123E+00	158.0	2.0663E+00	1.8733E+00			
38.0	9.9938E-01	1.0000E+00	100.0	1.0164E+00	1.0177E+00	160.0	2.3475E+00	2.5329E+00			
40.0	1.0128E+00	1.0007E+00	102.0	8.7616E-01	1.0152E+00	162.0	2.3355E-01	3.3394E+00			
42.0	9.0761E-01	1.0013E+00	104.0	1.0926E+00	1.0190E+00	164.0	4.5740E+00	2.3581E+00			
44.0	9.8603E-01	1.0006E+00	106.0	9.8278E-01	1.0245E+00	166.0	3.5844E+00	6.4135E+00			
46.0	1.0066E+00	1.0003E+00	108.0	8.6291E-01	1.0220E+00	168.0	1.8013E+00	4.3265E+00			
48.0	1.0138E+00	1.0013E+00	110.0	1.1410E+00	1.0293E+00	170.0	1.5636E+01	8.9893E+00			
50.0	9.8725E-01	1.0015E+00	112.0	9.1081E-01	1.0339E+00	172.0	1.3959E+01	2.3847E+01			
52.0	9.8203E-01	1.0006E+00	114.0	8.8363E-01	1.0336E+00	174.0	1.4434E+01	5.9832E+00			
54.0	1.0176E+00	1.0010E+00	116.0	1.1840E+00	1.0444E+00	176.0	2.6210E+02	1.9408E+02			
56.0	1.0032E+00	1.0021E+00	118.0	7.9615E-01	1.0475E+00	178.0	8.5193E+02	8.0564E+02			
58.0	9.7608E-01	1.0014E+00	120.0	9.7257E-01	1.0531E+00	180.0	1.2074E+03	1.2074E+03			
60.0	1.0071E+00	1.0009E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=34.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
C.0	9.9212E-01	9.9212E-01	62.0	1.0250E+00	1.0019E+00	122.0	1.2259E+00	1.0645E+00
2.0	9.9546E-01	9.9317E-01	64.0	9.9413E-01	1.0029E+00	124.0	7.0694E-01	1.0701E+00
4.0	1.0033E+00	9.9539E-01	66.0	9.7194E-01	1.0017E+00	126.0	1.0374E+00	1.0826E+00
6.0	1.0087E+00	9.9942E-01	68.0	1.0224E+00	1.0019E+00	128.0	1.1535E+00	1.0934E+00
8.0	1.0052E+00	1.0016E+00	70.0	1.0103E+00	1.0037E+00	130.0	5.8055E-01	1.1100E+00
10.0	9.9546E-01	1.0015E+00	72.0	9.6047E-01	1.0029E+00	132.0	1.2934E+00	1.1258E+00
12.0	9.9156E-01	9.9936E-01	74.0	1.0141E+00	1.0024E+00	134.0	8.8277E-01	1.1399E+00
14.0	9.9994E-01	9.9916E-01	76.0	1.0262E+00	1.0048E+00	136.0	6.6232E-01	1.1799E+00
16.0	1.0094E+00	9.9998E-01	78.0	9.5256E-01	1.0043E+00	138.0	1.4970E+00	1.1804E+00
18.0	1.0050E+00	1.0010E+00	80.0	1.0044E+00	1.0033E+00	140.0	4.7165E-01	1.2367E+00
20.0	9.9274E-01	1.0008E+00	82.0	1.0403E+00	1.0063E+00	142.0	1.0898E+00	1.2763E+00
22.0	9.9256E-01	9.9935E-01	84.0	9.4378E-01	1.0063E+00	144.0	1.3728E+00	1.2743E+00
24.0	1.0052E+00	9.9980E-01	86.0	9.9698E-01	1.0049E+00	146.0	2.2854E-01	1.4298E+00
26.0	1.0083E+00	1.0007E+00	88.0	1.0529E+00	1.0086E+00	148.0	1.7621E+00	1.3764E+00
28.0	9.9594E-01	1.0009E+00	90.0	9.2955E-01	1.0087E+00	150.0	8.0807E-01	1.5340E+00
30.0	9.9210E-01	1.0002E+00	92.0	9.9635E-01	1.0073E+00	152.0	6.0302E-01	1.7039E+00
32.0	1.0053E+00	1.0000E+00	94.0	1.0634E+00	1.0127E+00	154.0	2.2962E+00	1.5610E+00
34.0	1.0084E+00	1.0008E+00	96.0	9.0590E-01	1.0119E+00	156.0	1.5513E-01	2.2052E+00
36.0	9.9251E-01	1.0010E+00	98.0	1.0687E+00	1.0112E+00	158.0	1.8542E+00	1.9178E+00
38.0	9.9043E-01	1.0002E+00	100.0	1.0668E+00	1.0174E+00	160.0	2.5392E+00	2.4474E+00
40.0	1.0094E+00	1.0002E+00	102.0	8.7173E-01	1.0162E+00	162.0	1.7498E-01	3.4152E+00
42.0	1.0091E+00	1.0012E+00	104.0	1.0423E+00	1.0175E+00	164.0	4.3998E+00	2.3113E+00
44.0	9.8768E-01	1.0011E+00	106.0	1.0501E+00	1.0247E+00	166.0	3.8470E+00	6.3201E+00
46.0	9.9339E-01	1.0003E+00	108.0	8.3467E-01	1.0227E+00	168.0	1.6047E+00	4.5546E+00
48.0	1.0154E+00	1.0008E+00	110.0	1.1027E+00	1.0276E+00	170.0	1.5338E+01	8.5451E+00
50.0	1.0005E+00	1.0017E+00	112.0	9.9215E-01	1.0347E+00	172.0	1.4627E+01	2.4204E+01
52.0	9.8062E-01	1.0010E+00	114.0	8.1976E-01	1.0334E+00	174.0	1.3350E+01	5.7920E+01
54.0	1.0063E+00	1.0006E+00	116.0	1.1794E+00	1.0430E+00	176.0	2.5964E+02	1.9145E+02
56.0	1.0172E+00	1.0018E+00	118.0	8.7348E-01	1.0484E+00	178.0	8.5813E+02	8.1107E+02
58.0	9.8226E-01	1.0019E+00	120.0	8.7268E-01	1.0520E+00	180.0	1.2214E+03	1.2214E+03
60.0	9.8875E-01	1.0009E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=34.8

ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE
0.0	1.0083E+00	1.0083E+00	62.0	1.0148E+00	1.0012E+00	122.0	1.2378E+00	1.0637E+00
2.0	1.0031E+00	1.0064E+00	64.0	1.0139E+00	1.0029E+00	124.0	7.8119E-01	1.0701E+00
4.0	9.9490E-01	1.0023E+00	66.0	9.6944E-01	1.0023E+00	126.0	9.1964E-01	1.0816E+00
6.0	9.9332E-01	9.9949E-01	68.0	1.0020E+00	1.0015E+00	128.0	1.2431E+00	1.0932E+00
8.0	1.0024E+00	9.9939E-01	70.0	1.0028E+00	1.0033E+00	130.0	5.8098E-01	1.1083E+00
10.0	1.0045E+00	1.0005E+00	72.0	9.6927E-01	1.0036E+00	132.0	1.1907E+00	1.1266E+00
12.0	9.9850E-01	1.0009E+00	74.0	9.8712E-01	1.0022E+00	134.0	1.0272E+00	1.1374E+00
14.0	9.9549E-01	1.0000E+00	76.0	1.0398E+00	1.0041E+00	136.0	5.5593E-01	1.1789E+00
16.0	1.0019E+00	9.9871E-01	78.0	9.7096E-01	1.0051E+00	138.0	1.4974E+00	1.1824E+00
18.0	1.0065E+00	1.0004E+00	80.0	9.7260E-01	1.0033E+00	140.0	5.8545E-01	1.2088E+00
20.0	9.9934E-01	1.0005E+00	82.0	1.0498E+00	1.0054E+00	142.0	9.1786E-01	1.2827E+00
22.0	9.9168E-01	1.0003E+00	84.0	9.6981E-01	1.0070E+00	144.0	1.5061E+00	1.2679E+00
24.0	9.9881E-01	9.9969E-01	86.0	9.6011E-01	1.0049E+00	146.0	2.1068E-01	1.4242E+00
26.0	1.0098E+00	1.0002E+00	88.0	1.0618E+00	1.0076E+00	148.0	1.6428E+00	1.3892E+00
28.0	1.0036E+00	1.0010E+00	90.0	9.6108E-01	1.0095E+00	150.0	1.0013E+00	1.5075E+00
30.0	9.9029E-01	1.0006E+00	92.0	9.5213E-01	1.0072E+00	152.0	4.3565E-01	1.7246E+00
32.0	9.9570E-01	9.9994E-01	94.0	1.0776E+00	1.0110E+00	154.0	2.3313E+00	1.5483E+00
34.0	1.0099E+00	1.0003E+00	96.0	9.3911E-01	1.0129E+00	156.0	2.7049E-01	2.1811E+00
36.0	1.0030E+00	1.0010E+00	98.0	9.5450E-01	1.0107E+00	158.0	1.6350E+00	1.9674E+00
38.0	9.8851E-01	1.0006E+00	100.0	1.0946E+00	1.0164E+00	160.0	2.7141E+00	2.3578E+00
40.0	9.9926E-01	1.0001E+00	102.0	8.9874E-01	1.0175E+00	162.0	1.4494E-01	3.4817E+00
42.0	1.0136E+00	1.0008E+00	104.0	9.7846E-01	1.0164E+00	164.0	4.2067E+00	2.2805E+00
44.0	9.9729E-01	1.0013E+00	106.0	1.1007E+00	1.0242E+00	166.0	4.1067E+00	6.2101E+00
46.0	9.8469E-01	1.0006E+00	108.0	8.4149E-01	1.0236E+00	168.0	1.4344E+00	4.7816E+00
48.0	1.0069E+00	1.0004E+00	110.0	1.0381E+00	1.0260E+00	170.0	1.5016E+00	8.1095E+00
50.0	1.0130E+00	1.0014E+00	112.0	1.0699E+00	1.0349E+00	172.0	1.5293E+00	2.4533E+00
52.0	9.8515E-01	1.0015E+00	114.0	7.8798E-01	1.0338E+00	174.0	1.2322E+00	5.6716E+00
54.0	9.9104E-01	1.0006E+00	116.0	1.1366E+00	1.0414E+00	176.0	2.5713E+00	1.8880E+00
56.0	1.0203E+00	1.0013E+00	118.0	9.6749E-01	1.0491E+00	178.0	8.8430E+00	8.1646E+00
58.0	9.9778E-01	1.0022E+00	120.0	7.9015E-01	1.0512E+00	180.0	1.2354E+00	1.2384E+00
60.0	9.7834E-01	1.0013E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

$\kappa_A = 35.0$

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=35.2

NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION	
E-PLANE		E-PLANE		E-PLANE		E-PLANE	
ANGLE		ANGLE		ANGLE		ANGLE	
0.0	1.0086E+00	62.0	9.7969E-01	1.0012E+00	122.0	1.1407E+00	1.0613E+00
2.0	1.0049E+00	64.0	1.0027E+00	1.0016E+00	124.0	9.9302E-01	1.0705E+00
4.0	9.9675E-01	66.0	1.0031E+00	1.0030E+00	126.0	7.1821E-01	1.0795E+00
6.0	9.9170E-01	68.0	9.6799E-01	1.0021E+00	128.0	1.3063E+00	1.0930E+00
8.0	9.9597E-01	70.0	1.0183E+00	1.0019E+00	130.0	7.0889E-01	1.1049E+00
10.0	1.0057E+00	72.0	1.0161E+00	1.0035E+00	132.0	9.3953E-01	1.1273E+00
12.0	1.0082E+00	74.0	9.5875E-01	1.0032E+00	134.0	1.2775E+00	1.1547E+00
14.0	9.9887E-01	76.0	1.0123E+00	1.0026E+00	136.0	4.6156E-01	1.1736E+00
16.0	9.9094E-01	78.0	1.0275E+00	1.0051E+00	138.0	1.3658E+00	1.1890E+00
18.0	9.9738E-01	80.0	9.4934E-01	1.0046E+00	140.0	8.8496E-01	1.2132E+00
20.0	1.0086E+00	82.0	1.0091E+00	1.0039E+00	142.0	5.9947E-01	1.2910E+00
22.0	1.0055E+00	84.0	1.0369E+00	1.0069E+00	144.0	1.6602E+00	1.2636E+00
24.0	9.9322E-01	86.0	9.3622E-01	1.0064E+00	146.0	3.0316E-01	1.4037E+00
26.0	9.9416E-01	88.0	1.0127E+00	1.0056E+00	148.0	1.3230E+00	1.4200E+00
28.0	1.0065E+00	90.0	1.0421E+00	1.0097E+00	150.0	1.3828E+00	1.4579E+00
30.0	1.0053E+00	92.0	9.1678E-01	1.0087E+00	152.0	1.8419E-01	1.7522E+00
32.0	9.9211E-01	94.0	1.0283E+00	1.0086E+00	154.0	2.2924E+00	1.5441E+00
34.0	9.9530E-01	96.0	1.0372E+00	1.0136E+00	156.0	5.7842E-01	2.1126E+00
36.0	1.0104E+00	98.0	8.9271E-01	1.0118E+00	158.0	1.1922E+00	2.0764E+00
38.0	1.0041E+00	100.0	1.0611E+00	1.0135E+00	160.0	3.0005E+00	2.1945E+00
40.0	9.8726E-01	102.0	1.0099E+00	1.0190E+00	162.0	1.7076E-01	3.5822E+00
42.0	9.9769E-01	104.0	8.7537E-01	1.0164E+00	164.0	3.7728E+00	2.2669E+00
44.0	1.0137E+00	106.0	1.1100E+00	1.0214E+00	166.0	4.6017E+00	5.9452E+00
46.0	9.9689E-01	108.0	9.4447E-01	1.0261E+00	168.0	1.1749E+00	5.2554E+00
48.0	9.9522E-01	110.0	8.9115E-01	1.0243E+00	170.0	1.4303E+01	7.2713E+00
50.0	1.0096E+00	112.0	1.1540E+00	1.0333E+00	172.0	1.6606E+01	2.5096E+01
52.0	1.0119E+00	114.0	8.3688E-01	1.0357E+00	174.0	1.0432E+01	5.5803E+00
54.0	9.8212E-01	116.0	9.7601E-01	1.0384E+00	176.0	2.5197E+02	1.8342E+02
56.0	9.9476E-01	118.0	1.1388E+00	1.0493E+00	178.0	8.7653E+02	8.2711E+02
58.0	1.0211E+00	120.0	7.2600E-01	1.0511E+00	180.0	1.2637E+03	1.2637E+03
60.0	9.8996E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=35.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.9297E-01	9.9297E-01	62.0	9.7395E-01	1.0017E+00	122.0	1.0476E+00	1.0600E+00			
2.0	9.9782E-01	9.9477E-01	64.0	1.0072E+00	1.0012E+00	124.0	1.0994E+00	1.0706E+00			
4.0	1.0052E+00	9.9850E-01	66.0	1.0212E+00	1.0028E+00	126.0	6.6284E-01	1.0786E+00			
6.0	1.0043E+00	1.0010E+00	68.0	9.7105E-01	1.0027E+00	128.0	1.2726E+00	1.0928E+00			
8.0	9.9760E-01	1.0009E+00	70.0	9.9540E-01	1.0016E+00	130.0	8.2059E-01	1.1036E+00			
10.0	9.9662E-01	9.9982E-01	72.0	1.0317E+00	1.0034E+00	132.0	8.0666E-01	1.1270E+00			
12.0	1.0025E+00	9.9978E-01	74.0	9.7011E-01	1.0039E+00	134.0	1.3586E+00	1.1346E+00			
14.0	1.0042E+00	1.0006E+00	76.0	9.8428E-01	1.0028E+00	136.0	4.8148E-01	1.1697E+00			
16.0	9.9730E-01	1.0007E+00	78.0	1.0414E+00	1.0044E+00	138.0	1.2474E+00	1.1928E+00			
18.0	9.9443E-01	9.9988E-01	80.0	9.6715E-01	1.0054E+00	140.0	1.0475E+00	1.2066E+00			
20.0	1.0223E+00	9.9973E-01	82.0	9.7594E-01	1.0036E+00	142.0	4.7465E-01	1.2921E+00			
22.0	1.0081E+00	1.0005E+00	84.0	1.0518E+00	1.0061E+00	144.0	1.6836E+00	1.2657E+00			
24.0	9.9864E-01	1.0005E+00	86.0	9.5751E-01	1.0073E+00	146.0	4.0771E-01	1.3898E+00			
26.0	9.9044E-01	1.0003E+00	88.0	9.7298E-01	1.0053E+00	148.0	1.1381E+00	1.4383E+00			
28.0	1.0001E+00	9.9979E-01	90.0	1.0633E+00	1.0088E+00	150.0	1.5545E+00	1.4368E+00			
30.0	1.0102E+00	1.0004E+00	92.0	9.3676E-01	1.0097E+00	152.0	1.0898E-01	1.7580E+00			
32.0	1.0000E+00	1.0010E+00	94.0	9.8123E-01	1.0080E+00	154.0	2.2186E+00	1.5523E+00			
34.0	9.8989E-01	1.0004E+00	96.0	1.0716E+00	1.0129E+00	156.0	7.6214E-01	2.0700E+00			
36.0	1.0020E+00	1.0000E+00	98.0	9.0285E-01	1.0129E+00	158.0	9.7875E-01	2.1328E+00			
38.0	1.0103E+00	1.0008E+00	100.0	1.0101E+00	1.0129E+00	160.0	3.1065E+00	2.1210E+00			
40.0	9.9416E-01	1.0011E+00	102.0	1.0536E+00	1.0198E+00	162.0	2.2551E-01	3.6147E+00			
42.0	9.8882E-01	1.0003E+00	104.0	8.6242E-01	1.0174E+00	164.0	3.5358E+00	2.2836E+00			
44.0	1.0096E+00	1.0003E+00	106.0	1.0675E+00	1.0199E+00	166.0	4.8333E+00	5.7928E+00			
46.0	1.0090E+00	1.0013E+00	108.0	1.0160E+00	1.0267E+00	168.0	1.0863E+00	5.4982E+00			
48.0	9.8558E-01	1.0011E+00	110.0	8.4141E-01	1.0245E+00	170.0	1.3915E+01	6.8722E+00			
50.0	9.9598E-01	1.0004E+00	112.0	1.1435E+00	1.0319E+00	172.0	1.7249E+01	2.5330E+01			
52.0	1.0173E+00	1.0011E+00	114.0	9.0703E-01	1.0367E+00	174.0	9.5714E+00	5.6080E+00			
54.0	9.9363E-01	1.0018E+00	116.0	8.8891E-01	1.0374E+00	176.0	2.4933E+02	1.8089E+02			
56.0	9.6162E-01	1.0009E+00	118.0	1.1861E+00	1.0487E+00	178.0	8.8259E+02	8.3237E+02			
58.0	1.0159E+00	1.0010E+00	120.0	7.5429E-01	1.0515E+00	180.0	1.2780E+03	1.2780E+03			
60.0	1.0080E+00	1.0023E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BI-STATIC SCATTERING FROM CONDUCTING SPHERE

KA=35.6

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE			E-PLANE		
ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE
0.0	9.8478E-01	62.0	9.8181E-01	1.0022E+00	122.0	9.4316E-01	1.0587E+00	122.0	9.4316E-01	1.0587E+00	1.0587E+00
2.0	9.9237E-01	64.0	9.8750E-01	1.0011E+00	124.0	1.1872E+00	1.0765E+00	124.0	1.1872E+00	1.0765E+00	1.0765E+00
4.0	1.0039E+00	66.0	1.0272E+00	1.0022E+00	126.0	6.4816E-01	1.0778E+00	126.0	6.4816E-01	1.0778E+00	1.0778E+00
6.0	1.0126E+00	68.0	9.8775E-01	1.0031E+00	128.0	1.1944E+00	1.0925E+00	128.0	1.1944E+00	1.0925E+00	1.0925E+00
8.0	1.0012E+00	70.0	9.7435E-01	1.0019E+00	130.0	9.4737E-01	1.1025E+00	130.0	9.4737E-01	1.1025E+00	1.1025E+00
10.0	9.9088E-01	72.0	1.0313E+00	1.0026E+00	132.0	6.9121E-01	1.1261E+00	132.0	6.9121E-01	1.1261E+00	1.1261E+00
12.0	9.9533E-01	74.0	9.9401E-01	1.0043E+00	134.0	1.3947E+00	1.1352E+00	134.0	1.3947E+00	1.1352E+00	1.1352E+00
14.0	1.0062E+00	76.0	9.6268E-01	1.0029E+00	136.0	5.4477E-01	1.1654E+00	136.0	5.4477E-01	1.1654E+00	1.1654E+00
16.0	1.0060E+00	78.0	1.0360E+00	1.0036E+00	138.0	1.1047E+00	1.1964E+00	138.0	1.1047E+00	1.1964E+00	1.1964E+00
18.0	9.9611E-01	80.0	9.9595E-01	1.0057E+00	140.0	1.2021E+00	1.2014E+00	140.0	1.2021E+00	1.2014E+00	1.2014E+00
20.0	9.9468E-01	82.0	9.5153E-01	1.0040E+00	142.0	3.8438E-01	1.2909E+00	142.0	3.8438E-01	1.2909E+00	1.2909E+00
22.0	1.0041E+00	84.0	1.0448E+00	1.0051E+00	144.0	1.6573E+00	1.2703E+00	144.0	1.6573E+00	1.2703E+00	1.2703E+00
24.0	1.0054E+00	86.0	9.9254E-01	1.0077E+00	146.0	5.4376E-01	1.3745E+00	146.0	5.4376E-01	1.3745E+00	1.3745E+00
26.0	9.9485E-01	88.0	9.4169E-01	1.0057E+00	148.0	9.4853E-01	1.4519E+00	148.0	9.4853E-01	1.4519E+00	1.4519E+00
28.0	9.9386E-01	90.0	1.0501E+00	1.0077E+00	150.0	1.7036E+00	1.4192E+00	150.0	1.7036E+00	1.4192E+00	1.4192E+00
30.0	1.0068E+00	92.0	9.7531E-01	1.0105E+00	152.0	7.1244E-02	1.7582E+00	152.0	7.1244E-02	1.7582E+00	1.7582E+00
32.0	1.0075E+00	94.0	9.3852E-01	1.0080E+00	154.0	2.1117E+00	1.5667E+00	154.0	2.1117E+00	1.5667E+00	1.5667E+00
34.0	9.9202E-01	96.0	1.0810E+00	1.0118E+00	156.0	9.5893E-01	2.0235E+00	156.0	9.5893E-01	2.0235E+00	2.0235E+00
36.0	9.9250E-01	98.0	9.3875E-01	1.0140E+00	158.0	7.7677E-01	2.1884E+00	158.0	7.7677E-01	2.1884E+00	2.1884E+00
38.0	1.0094E+00	100.0	9.5416E-01	1.0119E+00	160.0	3.1871E+00	2.0545E+00	160.0	3.1871E+00	2.0545E+00	2.0545E+00
40.0	1.0051E+00	102.0	1.0964E+00	1.0180E+00	162.0	3.0681E-01	3.6347E+00	162.0	3.0681E-01	3.6347E+00	3.6347E+00
42.0	9.8774E-01	104.0	8.8171E-01	1.0186E+00	164.0	3.2917E+00	2.3153E+00	164.0	3.2917E+00	2.3153E+00	2.3153E+00
44.0	9.9874E-01	106.0	1.0056E+00	1.0186E+00	166.0	5.0516E+00	5.6292E+00	166.0	5.0516E+00	5.6292E+00	5.6292E+00
46.0	1.0145E+00	108.0	1.0792E+00	1.0265E+00	168.0	1.0253E+00	5.7425E+00	168.0	1.0253E+00	5.7425E+00	5.7425E+00
48.0	9.9488E-01	110.0	8.2347E-01	1.0252E+00	170.0	1.3505E+01	6.4885E+00	170.0	1.3505E+01	6.4885E+00	6.4885E+00
50.0	9.8494E-01	112.0	1.0989E+00	1.0301E+00	172.0	1.7882E+01	2.5531E+01	172.0	1.7882E+01	2.5531E+01	2.5531E+01
52.0	1.0118E+00	114.0	9.9047E-01	1.0374E+00	174.0	8.7667E+00	5.6834E+00	174.0	8.7667E+00	5.6834E+00	5.6834E+00
54.0	1.0086E+00	116.0	8.1913E-01	1.0370E+00	176.0	2.4664E+02	1.7794E+02	176.0	2.4664E+02	1.7794E+02	1.7794E+02
56.0	9.7957E-01	118.0	1.1954E+00	1.0476E+00	178.0	8.8860E+02	8.3758E+02	178.0	8.8860E+02	8.3758E+02	8.3758E+02
58.0	1.0013E+00	120.0	8.1822E-01	1.0522E+00	180.0	1.2923E+03	1.2923E+03	180.0	1.2923E+03	1.2923E+03	1.2923E+03
60.0	1.0208E+00										

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=35.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.9177E-01	9.9177E-01	62.0	9.9875E-01	1.0025E+00	122.0	8.4375E-01	1.0576E+00
2.0	9.9565E-01	9.9301E-01	64.0	9.7413E-01	1.0015E+00	124.0	1.2382E+00	1.0702E+00
4.0	1.0041E+00	9.9622E-01	66.0	1.0185E+00	1.0015E+00	126.0	6.7759E-01	1.0772E+00
6.0	1.0088E+00	9.9980E-01	68.0	1.0096E+00	1.0032E+00	128.0	1.0976E+00	1.0920E+00
8.0	1.0036E+00	1.0017E+00	70.0	9.6544E-01	1.0024E+00	130.0	1.0742E+00	1.1018E+00
10.0	9.9401E-01	1.0012E+00	72.0	1.0151E+00	1.0020E+00	132.0	6.0553E-01	1.1247E+00
12.0	9.9292E-01	9.9965E-01	74.0	1.0192E+00	1.0041E+00	134.0	1.3942E+00	1.1364E+00
14.0	1.0029E+00	9.9928E-01	76.0	9.5688E-01	1.0035E+00	136.0	6.446E-01	1.1609E+00
16.0	1.0091E+00	1.0003E+00	78.0	1.0140E+00	1.0039E+00	138.0	9.5062E-01	1.1993E+00
18.0	1.0009E+00	1.0011E+00	80.0	1.0261E+00	1.0055E+00	140.0	1.3371E+00	1.1978E+00
20.0	9.9135E-01	1.0004E+00	82.0	9.4546E-01	1.0048E+00	142.0	3.3487E-01	1.2874E+00
22.0	9.9718E-01	9.9970E-01	84.0	1.0188E+00	1.0043E+00	144.0	1.5891E+00	1.2770E+00
24.0	1.0080E+00	1.0001E+00	86.0	1.0280E+00	1.0079E+00	146.0	7.0356E-01	1.3585E+00
26.0	1.0033E+00	1.0008E+00	88.0	9.3006E-01	1.0065E+00	148.0	7.6343E-01	1.4658E+00
28.0	9.9238E-01	1.0005E+00	90.0	1.0341E+00	1.0066E+00	150.0	1.8237E+00	1.4058E+00
30.0	9.9804E-01	9.995E-01	92.0	1.0194E+00	1.0106E+00	152.0	7.2116E-02	1.7525E+00
32.0	1.0090E+00	1.0004E+00	94.0	9.1386E-01	1.0087E+00	154.0	1.9732E+00	1.5867E+00
34.0	1.0002E+00	1.0010E+00	96.0	1.0628E+00	1.0103E+00	156.0	1.1633E+00	1.9742E+00
36.0	9.8891E-01	1.0005E+00	98.0	9.8951E-01	1.0148E+00	158.0	5.9118E-01	2.2420E+00
38.0	1.0017E+00	1.0000E+00	100.0	9.0902E-01	1.0120E+00	160.0	3.2351E+00	1.9963E+00
40.0	1.0121E+00	1.0008E+00	102.0	1.0997E+00	1.0168E+00	162.0	4.1315E-01	3.6417E+00
42.0	9.9480E-01	1.0011E+00	104.0	9.2786E-01	1.0197E+00	164.0	3.0402E+00	2.3614E+00
44.0	9.8864E-01	1.0004E+00	106.0	9.3956E-01	1.0175E+00	166.0	5.2545E+00	5.4557E+00
46.0	1.0101E+00	1.0004E+00	108.0	1.1194E+00	1.0257E+00	168.0	9.9181E-01	5.9862E+00
48.0	1.0071E+00	1.0014E+00	110.0	8.4085E-01	1.0263E+00	170.0	1.3086E+01	6.1218E+00
50.0	9.8356E-01	1.0011E+00	112.0	1.0300E+00	1.0286E+00	172.0	1.8501E+01	2.5698E+01
52.0	9.9904E-01	1.0004E+00	114.0	1.0705E+00	1.0377E+00	174.0	8.0184E+00	5.8056E+00
54.0	1.0178E+00	1.0013E+00	116.0	7.7952E-01	1.0371E+00	176.0	2.4390E+02	1.7516E+02
56.0	9.8893E-01	1.0018E+00	118.0	1.1654E+00	1.0462E+00	178.0	8.9458E+02	8.4275E+02
58.0	9.8568E-01	1.0008E+00	120.0	9.0686E-01	1.0529E+00	180.0	1.3068E+03	1.3068E+03
60.0	1.0208E+00	1.0014E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=36.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0068E+00	1.0068E+00	62.0	1.0155E+00	1.0023E+00	122.0	7.6483E-01	1.0568E+00	122.0	7.6483E-01	1.0568E+00
2.0	1.0022E+00	1.0051E+00	64.0	9.7420E-01	1.0021E+00	124.0	1.2510E+00	1.0896E+00	124.0	1.2510E+00	1.0896E+00
4.0	9.9554E-01	1.0016E+00	66.0	9.9978E-01	1.0012E+00	126.0	7.4492E-01	1.0769E+00	126.0	7.4492E-01	1.0769E+00
6.0	9.9594E-01	9.9942E-01	68.0	1.0255E+00	1.0028E+00	128.0	9.7893E-01	1.0913E+00	128.0	9.7893E-01	1.0913E+00
8.0	1.0031E+00	9.9969E-01	70.0	9.7269E-01	1.0030E+00	130.0	1.1864E+00	1.1014E+00	130.0	1.1864E+00	1.1014E+00
10.0	1.0030E+00	1.0007E+00	72.0	9.9123E-01	1.0018E+00	132.0	5.5864E-01	1.1228E+00	132.0	5.5864E-01	1.1228E+00
12.0	9.9713E-01	1.0006E+00	74.0	1.0341E+00	1.0038E+00	134.0	1.3459E+00	1.1378E+00	134.0	1.3459E+00	1.1378E+00
14.0	9.9694E-01	9.9932E-01	76.0	9.6912E-01	1.0042E+00	136.0	7.7236E-01	1.1566E+00	136.0	7.7236E-01	1.1566E+00
16.0	1.0040E+00	9.9987E-01	78.0	9.8504E-01	1.0027E+00	138.0	7.9829E-01	1.2012E+00	138.0	7.9829E-01	1.2012E+00
18.0	1.0049E+00	1.0006E+00	80.0	1.0425E+00	1.0049E+00	140.0	1.4424E+00	1.1960E+00	140.0	1.4424E+00	1.1960E+00
20.0	9.9584E-01	1.0007E+00	82.0	9.5994E-01	1.0056E+00	142.0	3.2891E-01	1.2819E+00	142.0	3.2891E-01	1.2819E+00
22.0	9.9320E-01	9.9908E-01	84.0	9.8441E-01	1.0040E+00	144.0	1.4835E+00	1.2852E+00	144.0	1.4835E+00	1.2852E+00
24.0	1.0041E+00	9.9979E-01	86.0	1.0508E+00	1.0070E+00	146.0	8.7811E-01	1.3427E+00	146.0	8.7811E-01	1.3427E+00
26.0	1.0087E+00	1.0006E+00	88.0	9.4202E-01	1.0074E+00	148.0	5.9175E-01	1.4774E+00	148.0	5.9175E-01	1.4774E+00
28.0	9.9670E-01	1.0009E+00	90.0	5.9468E-01	1.0060E+00	150.0	1.9098E+00	1.3969E+00	150.0	1.9098E+00	1.3969E+00
30.0	9.9100E-01	1.0002E+00	92.0	1.0541E+00	1.0102E+00	152.0	1.1125E-01	1.7412E+00	152.0	1.1125E-01	1.7412E+00
32.0	1.0039E+00	9.9999E-01	94.0	9.1489E-01	1.0097E+00	154.0	1.8138E+00	1.6115E+00	154.0	1.8138E+00	1.6115E+00
34.0	1.0083E+00	1.0007E+00	96.0	1.0231E+00	1.0094E+00	156.0	1.3695E+00	1.9235E+00	156.0	1.3695E+00	1.9235E+00
36.0	9.9357E-01	1.0008E+00	98.0	1.0399E+00	1.0146E+00	158.0	4.2553E-01	2.2919E+00	158.0	4.2553E-01	2.2919E+00
38.0	9.9277E-01	1.0002E+00	100.0	8.8728E-01	1.0128E+00	160.0	3.2552E+00	1.9472E+00	160.0	3.2552E+00	1.9472E+00
40.0	1.0101E+00	1.0004E+00	102.0	1.0730E+00	1.0152E+00	162.0	5.4266E-01	3.6358E+00	162.0	5.4266E-01	3.6358E+00
42.0	1.0050E+00	1.0011E+00	104.0	9.8862E-01	1.0204E+00	164.0	2.7852E+00	2.4209E+00	164.0	2.7852E+00	2.4209E+00
44.0	9.8628E-01	1.0008E+00	106.0	8.8570E-01	1.0179E+00	166.0	5.4403E+00	5.2742E+00	166.0	5.4403E+00	5.2742E+00
46.0	9.9903E-01	1.0002E+00	108.0	1.1276E+00	1.0244E+00	168.0	9.8556E-01	6.2276E+00	168.0	9.8556E-01	6.2276E+00
48.0	1.0145E+00	1.0010E+00	110.0	8.929E-01	1.0275E+00	170.0	1.2647E+01	5.7735E+00	170.0	1.2647E+01	5.7735E+00
50.0	9.9246E-01	1.0014E+00	112.0	9.5156E-01	1.0275E+00	172.0	1.9105E+01	2.5832E+01	172.0	1.9105E+01	2.5832E+01
52.0	9.8684E-01	1.0006E+00	114.0	1.1312E+00	1.0373E+00	174.0	7.3265E+00	5.9736E+00	174.0	7.3265E+00	5.9736E+00
54.0	1.0156E+00	1.0009E+00	116.0	7.7718E-01	1.0373E+00	176.0	2.4113E+02	1.7237E+02	176.0	2.4113E+02	1.7237E+02
56.0	1.0040E+00	1.0019E+00	118.0	1.1019E+00	1.0447E+00	178.0	9.0052E+02	8.4787E+02	178.0	9.0052E+02	8.4787E+02
58.0	9.7801E-01	1.0013E+00	120.0	1.0051E+00	1.0534E+00	180.0	1.3213E+03	1.3213E+03	180.0	1.3213E+03	1.3213E+03
60.0	1.0088E+00	1.0009E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=36.2

ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE
0.0	1.0151E+00	1.0151E+00	62.0	1.0231E+00	1.0019E+00	122.0	7.1849E-01	1.0584E+00			
2.0	1.0065E+00	1.0121E+00	64.0	9.8742E-01	1.0028E+00	124.0	1.2202E+00	1.0688E+00			
4.0	9.9150E-01	1.0033E+00	66.0	9.8090E-01	1.0013E+00	126.0	8.4127E-01	1.0766E+00			
6.0	9.8868E-01	9.9970E-01	68.0	1.0276E+00	1.0021E+00	128.0	8.5917E-01	1.0904E+00			
8.0	1.0002E+00	9.9822E-01	70.0	9.9217E-01	1.0034E+00	130.0	1.2700E+00	1.1013E+00			
10.0	1.0093E+00	9.9992E-01	72.0	9.7087E-01	1.0021E+00	132.0	5.5527E-01	1.1206E+00			
12.0	1.0037E+00	1.0012E+00	74.0	1.0320E+00	1.0028E+00	134.0	1.2591E+00	1.1394E+00			
14.0	9.9365E-01	1.0007E+00	76.0	9.9369E-01	1.0045E+00	136.0	9.1500E-01	1.1528E+00			
16.0	9.9577E-01	9.9972E-01	78.0	9.6180E-01	1.0030E+00	138.0	6.6034E-01	1.2019E+00			
18.0	1.0051E+00	9.9991E-01	80.0	1.0396E+00	1.0040E+00	140.0	1.5102E+00	1.1961E+00			
20.0	1.0041E+00	1.0007E+00	82.0	9.8887E-01	1.0061E+00	142.0	3.6614E-01	1.2746E+00			
22.0	9.9499E-01	1.0005E+00	84.0	9.5512E-01	1.0042E+00	144.0	1.3473E+00	1.2943E+00			
24.0	9.9667E-01	9.9991E-01	86.0	1.0525E+00	1.0060E+00	146.0	1.0576E+00	1.3278E+00			
26.0	1.0068E+00	1.0001E+00	88.0	9.7290E-01	1.0081E+00	148.0	4.4174E-01	1.4800E+00			
28.0	1.0036E+00	1.0008E+00	90.0	9.5576E-01	1.0060E+00	150.0	1.9584E+00	1.3929E+00			
30.0	9.9140E-01	1.0026E+00	92.0	1.0682E+00	1.0092E+00	152.0	1.8602E-01	1.7248E+00			
32.0	9.9624E-01	9.9945E-01	94.0	9.4084E-01	1.0107E+00	154.0	1.6324E+00	1.6400E+00			
34.0	1.0101E+00	1.0023E+00	96.0	9.7439E-01	1.0088E+00	156.0	1.5719E+00	1.8737E+00			
36.0	1.0026E+00	1.0010E+00	98.0	1.0752E+00	1.0140E+00	158.0	2.8353E-01	2.3371E+00			
38.0	9.8894E-01	1.0006E+00	100.0	8.9472E-01	1.0139E+00	160.0	3.2452E+00	1.9080E+00			
40.0	1.0000E+00	1.0001E+00	102.0	1.0239E+00	1.0139E+00	162.0	6.9317E-01	3.6170E+00			
42.0	1.0115E+00	1.0008E+00	104.0	1.0482E+00	1.0205E+00	164.0	2.5205E+00	2.4928E+00			
44.0	9.9327E-01	1.0011E+00	106.0	8.5705E-01	1.0185E+00	166.0	5.6072E+00	5.082E+00			
46.0	9.6890E-01	1.0004E+00	108.0	1.1022E+00	1.0229E+00	168.0	1.0061E+00	6.4648E+00			
48.0	1.0122E+00	1.0005E+00	110.0	9.5773E-01	1.0284E+00	170.0	1.2186E+01	5.4450E+00			
50.0	1.0056E+00	1.0015E+00	112.0	8.8014E-01	1.0270E+00	172.0	1.9692E+01	2.5933E+01			
52.0	9.8255E-01	1.0010E+00	114.0	1.1610E+00	1.0364E+00	174.0	6.6909E+00	6.1865E+00			
54.0	1.0035E+00	1.0005E+00	116.0	8.1216E-01	1.0368E+00	176.0	2.3831E+02	1.6956E+02			
56.0	1.0150E+00	1.0016E+00	118.0	1.0166E+00	1.0432E+00	178.0	9.0641E+02	8.5294E+02			
58.0	9.8268E-01	1.0017E+00	120.0	1.0967E+00	1.0535E+00	180.0	1.3359E+03	1.3359E+03			
60.0	9.9180E-01	1.0006E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=36.4

NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION		NORMALIZED CROSS SECTION	
E-PLANE		E-PLANE		E-PLANE		E-PLANE	
ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE	ANGLE	H-PLANE
0.0	1.0089E+00	52.0	1.0174E+00	1.0012E+00	1.0564E+00	122.0	7.1160E-01
2.0	1.0046E+00	64.0	1.0064E+00	1.0026E+00	1.0564E+00	124.0	1.1566E+00
4.0	9.9593E-01	66.0	9.7146E-01	1.0018E+00	1.0767E+00	126.0	9.5326E-01
6.0	9.9171E-01	68.0	1.0149E+00	1.0016E+00	1.0894E+00	128.0	7.5339E-01
8.0	9.9756E-01	70.0	1.0142E+00	1.0033E+00	1.1015E+00	130.0	1.3177E+00
10.0	1.0069E+00	72.0	9.6368E-01	1.0027E+00	1.1183E+00	132.0	5.9538E-01
12.0	1.0065E+00	74.0	1.0142E+00	1.0022E+00	1.1408E+00	134.0	1.1427E+00
14.0	9.9619E-01	76.0	1.0196E+00	1.0044E+00	1.1497E+00	136.0	1.0614E+00
16.0	9.9188E-01	78.0	9.5424E-01	1.0037E+00	1.2013E+00	138.0	5.4815E-01
18.0	1.0014E+00	80.0	1.0191E+00	1.0033E+00	1.1978E+00	140.0	1.5355E+00
20.0	1.0088E+00	82.0	1.0204E+00	1.0060E+00	1.2660E+00	142.0	4.4513E-01
22.0	1.0006E+00	84.0	9.4220E-01	1.0049E+00	1.3036E+00	144.0	1.1889E+00
24.0	9.9202E-01	86.0	1.0329E+00	1.0051E+00	1.3145E+00	146.0	1.2321E+00
26.0	9.9963E-01	88.0	1.0112E+00	1.0083E+00	1.4911E+00	148.0	3.2051E-01
28.0	1.0078E+00	90.0	9.3079E-01	1.0065E+00	1.9675E+00	150.0	1.9675E+00
30.0	9.9871E-01	92.0	1.0571E+00	1.0080E+00	1.7037E+00	152.0	2.9596E-01
32.0	9.9162E-01	94.0	9.8303E-01	1.0113E+00	1.6711E+00	154.0	1.4371E+00
34.0	1.0040E+00	96.0	9.3172E-01	1.0089E+00	1.8231E+00	156.0	1.7647E+00
36.0	1.0092E+00	98.0	1.0850E+00	1.0126E+00	1.8231E+00	158.0	1.6819E-01
38.0	9.9300E-01	100.0	9.2886E-01	1.0150E+00	1.8793E+00	160.0	3.2053E+00
40.0	9.9126E-01	102.0	9.6600E-01	1.0132E+00	3.5857E+00	162.0	8.6218E-01
42.0	1.0100E+00	104.0	1.0914E+00	1.0199E+00	2.2759E+00	164.0	2.2759E+00
44.0	1.0047E+00	106.0	8.6035E-01	1.0195E+00	5.7541E+00	166.0	5.7541E+00
46.0	9.8614E-01	108.0	1.0498E+00	1.0214E+00	6.6960E+00	168.0	1.0529E+00
48.0	1.0017E+00	110.0	1.0308E+00	1.0288E+00	6.6960E+00	170.0	1.1733E+01
50.0	1.0145E+00	112.0	8.3088E-01	1.0270E+00	5.1373E+00	172.0	2.0262E+01
52.0	9.8870E-01	114.0	1.1542E+00	1.0350E+00	6.4431E+00	174.0	6.1116E+00
54.0	9.8929E-01	116.0	8.7751E-01	1.0396E+00	1.6673E+02	176.0	2.3546E+02
56.0	1.0180E+00	118.0	9.2468E-01	1.0420E+00	8.5797E+02	178.0	9.1226E+02
58.0	9.9689E-01	120.0	1.1666E+00	1.0533E+00	1.3505E+03	180.0	1.3505E+03
60.0	9.7931E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=36.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.9438E-01	9.9438E-01	62.0	1.0018E+00	1.0009E+00	122.0	7.44R1E-01	1.0566E+00
2.0	9.9863E-01	9.9597E-01	64.0	1.0209E+00	1.0023E+00	124.0	1.0676E+00	1.0667E+00
4.0	1.0045E+00	9.9915E-01	66.0	9.7512E-01	1.0024E+00	126.0	1.0655E+00	1.0766E+00
6.0	1.0027E+00	1.0010E+00	68.0	9.9423E-01	1.0014E+00	128.0	6.74R1E-01	1.0882E+00
8.0	9.9715E-01	1.0006E+00	70.0	1.0281E+00	1.0029E+00	130.0	1.3222E+00	1.1017E+00
10.0	9.9812E-01	9.9971E-01	72.0	9.7292E-01	1.0033E+00	132.0	6.7424E-01	1.1161E+00
12.0	1.0036E+00	9.9998E-01	74.0	9.9940E-01	1.0020E+00	134.0	1.00R5E+00	1.1417E+00
14.0	1.0025E+00	1.0007E+00	76.0	1.0353E+00	1.0039E+00	136.0	1.1961E+00	1.1477E+00
16.0	9.9588E-01	1.0005E+00	78.0	9.6532E-01	1.0044E+00	138.0	4.70R6E-01	1.1992E+00
18.0	9.9659E-01	9.9979E-01	80.0	9.9972E-01	1.0030E+00	140.0	1.5168E+00	1.2009E+00
20.0	1.0057E+00	9.9992E-01	82.0	1.0418E+00	1.0055E+00	142.0	5.58R6E-01	1.2566E+00
22.0	1.0055E+00	1.0007E+00	84.0	9.5032E-01	1.0057E+00	144.0	1.0184E+00	1.3123E+00
24.0	9.9417E-01	1.0007E+00	86.0	9.9952E-01	1.0045E+00	146.0	1.3921E+00	1.3035E+00
26.0	9.9332E-01	9.9996E-01	88.0	1.0430E+00	1.0079E+00	148.0	2.3375E-01	1.4923E+00
28.0	1.0061E+00	9.9997E-01	90.0	9.2821E-01	1.0074E+00	150.0	1.93C9E+00	1.3990E+00
30.0	1.0068E+00	1.0007E+00	92.0	1.0249E+00	1.0071E+00	152.0	4.3410E-01	1.6788E+00
32.0	9.9321E-01	1.0007E+00	94.0	1.0277E+00	1.0114E+00	154.0	1.2340E+00	1.7036E+00
34.0	9.9489E-01	1.0001E+00	96.0	9.0821E-01	1.0096E+00	156.0	1.9429E+00	1.7761E+00
36.0	1.0089E+00	1.0003E+00	98.0	1.0671E+00	1.0115E+00	158.0	8.1875E-02	2.4086E+00
38.0	1.0021E+00	1.0010E+00	100.0	9.7979E-01	1.0157E+00	160.0	3.1365E+00	1.8613E+00
40.0	9.8821E-01	1.0006E+00	102.0	9.1504E-01	1.0132E+00	162.0	1.0459E+00	3.5424E+00
42.0	1.0017E+00	1.0001E+00	104.0	1.1073E+00	1.0187E+00	164.0	2.0271E+00	2.6689E+00
44.0	1.0124E+00	1.0009E+00	106.0	8.9439E-01	1.0207E+00	166.0	5.8795E+00	4.6981E+00
46.0	9.9223E-01	1.0012E+00	108.0	9.8282E-01	1.0203E+00	168.0	1.1252E+00	6.9194E+00
48.0	9.8997E-01	1.0004E+00	110.0	1.0924E+00	1.0286E+00	170.0	1.1201E+01	4.8517E+00
50.0	1.0137E+00	1.0007E+00	112.0	8.1329E-01	1.0277E+00	172.0	2.0811E+01	2.6031E+01
52.0	1.0014E+00	1.0016E+00	114.0	1.1128E+00	1.0335E+00	174.0	5.5884E+00	6.7422E+00
54.0	9.8158E-01	1.0009E+00	116.0	9.6063E-01	1.0403E+00	176.0	2.3257E+02	1.6388E+02
56.0	1.0092E+00	1.0007E+00	118.0	8.4252E-01	1.0412E+00	178.0	9.1807E+02	8.6294E+02
58.0	1.0122E+00	1.0019E+00	120.0	1.2034E+00	1.0527E+00	180.0	1.3653E+03	1.3653E+03
60.0	9.7812E-01	1.0016E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=36.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.8592E-01	9.8592E-01	62.0	9.8480E-01	1.0010E+00	122.0	8.1254E-01	1.0570E+00
2.0	9.9440E-01	9.8890E-01	64.0	1.0234E+00	1.0017E+00	124.0	9.5717E-01	1.0655E+00
4.0	1.0089E+00	9.9505E-01	66.0	9.9235E-01	1.0027E+00	126.0	1.1628E+00	1.0766E+00
6.0	1.0109E+00	1.0009E+00	68.0	9.7615E-01	1.0016E+00	128.0	6.3313E-01	1.0871E+00
8.0	9.9920E-01	1.0020E+00	70.0	1.0273E+00	1.0023E+00	130.0	1.2839E+00	1.1020E+00
10.0	9.9138E-01	1.0004E+00	72.0	9.9397E-01	1.0036E+00	132.0	7.8296E-01	1.1140E+00
12.0	9.9803E-01	9.9927E-01	74.0	9.8891E-01	1.0033E+00	134.0	8.7016E-01	1.1421E+00
14.0	1.0069E+00	9.9993E-01	76.0	1.0340E+00	1.0031E+00	136.0	1.3076E+00	1.1467E+00
16.0	1.0031E+00	1.0008E+00	78.0	9.8990E-01	1.0048E+00	138.0	4.3465E-01	1.1959E+00
18.0	9.9484E-01	1.0005E+00	80.0	9.6373E-01	1.0032E+00	140.0	1.4558E+00	1.2052E+00
20.0	9.9780E-01	9.984E-01	82.0	1.0445E+00	1.0046E+00	142.0	6.9918E-01	1.2470E+00
22.0	1.0059E+00	1.0002E+00	84.0	9.7599E-01	1.004E+00	144.0	8.4619E-01	1.3199E+00
24.0	1.0014E+00	1.0007E+00	86.0	9.6519E-01	1.0045E+00	146.0	1.5287E+00	1.2953E+00
26.0	9.9278E-01	1.0004E+00	88.0	1.0570E+00	1.0071E+00	148.0	1.8503E-01	1.4895E+00
28.0	9.9352E-01	9.9988E-01	90.0	9.4865E-01	1.0083E+00	150.0	1.8691E+00	1.4086E+00
30.0	1.0092E+00	1.0004E+00	92.0	9.8286E-01	1.0066E+00	152.0	5.9594E-01	1.6510E+00
32.0	9.9973E-01	1.0009E+00	94.0	1.0606E+00	1.0108E+00	154.0	1.0297E+00	1.7363E+00
34.0	9.8982E-01	1.0004E+00	96.0	9.1087E-01	1.0106E+00	156.0	2.1015E+00	1.7328E+00
36.0	1.0023E+00	1.0000E+00	98.0	1.0271E+00	1.0104E+00	158.0	2.6333E-02	2.4331E+00
38.0	1.0037E+00	1.0007E+00	100.0	1.0329E+00	1.0156E+00	160.0	3.0399E+00	1.8541E+00
40.0	9.9349E-01	1.0009E+00	102.0	8.8467E-01	1.0137E+00	162.0	1.2415E+00	3.4878E+00
42.0	9.9216E-01	1.0003E+00	104.0	1.0922E+00	1.0173E+00	164.0	1.7859E+00	2.7704E+00
44.0	1.0113E+00	1.0035E+00	106.0	9.5045E-01	1.0217E+00	166.0	5.9824E+00	4.5014E+00
46.0	1.0030E+00	1.0013E+00	108.0	9.1708E-01	1.0197E+00	168.0	1.2220E+00	7.1335E+00
48.0	9.8475E-01	1.0008E+00	110.0	1.1289E+00	1.0278E+00	170.0	1.0782E+01	4.5891E+00
50.0	1.0042E+00	1.0004E+00	112.0	8.3121E-01	1.0287E+00	172.0	2.1338E+01	2.6029E+01
52.0	1.0129E+00	1.0013E+00	114.0	1.0452E+00	1.0319E+00	174.0	5.1211E+00	7.0827E+00
54.0	9.8490E-01	1.0014E+00	116.0	1.0458E+00	1.0408E+00	176.0	2.2965E+02	1.6102E+02
56.0	9.8472E-01	1.0006E+00	118.0	7.8448E-01	1.0409E+00	178.0	9.2384E+02	8.6787E+02
58.0	1.0197E+00	1.0014E+00	120.0	1.2012E+00	1.0517E+00	180.0	1.3801E+03	1.3801E+03
60.0	9.8857E-01	1.0020E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA=37.0

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=37.2

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0054E+00	1.0054E+00	62.0	9.7988E-01	1.0019E+00	122.0	1.0045E+00	1.0579E+00
2.0	1.0014E+00	1.0039E+00	64.0	9.9530E-01	1.0010E+00	124.0	7.6747E-01	1.0635E+00
4.0	9.9621E-01	1.0010E+00	66.0	1.0240E+00	1.0023E+00	126.0	1.2613E+00	1.0763E+00
6.0	9.9837E-01	9.9944E-01	68.0	9.7782E-01	1.0026E+00	128.0	6.7486E-01	1.0850E+00
8.0	1.0033E+00	9.9996E-01	70.0	9.9103E-01	1.0015E+00	130.0	1.1032E+00	1.1021E+00
10.0	1.0015E+00	1.0007E+00	72.0	1.0300E+00	1.0030E+00	132.0	1.0401E+00	1.1111E+00
12.0	9.9644E-01	1.0003E+00	74.0	9.7155E-01	1.0035E+00	134.0	6.3502E-01	1.1407E+00
14.0	9.9881E-01	9.9973E-01	76.0	9.9084E-01	1.0023E+00	136.0	1.4239E+00	1.1476E+00
16.0	1.0052E+00	1.0001E+00	78.0	1.0354E+00	1.0043E+00	138.0	4.9258E-01	1.1865E+00
18.0	1.0023E+00	1.0007E+00	80.0	9.5903E-01	1.0045E+00	140.0	1.2294E+00	1.2148E+00
20.0	9.9373E-01	1.0005E+00	82.0	9.9902E-01	1.0034E+00	142.0	1.0206E+00	1.2296E+00
22.0	9.9664E-01	9.9978E-01	84.0	1.0366E+00	1.0062E+00	144.0	5.3869E-01	1.3293E+00
24.0	1.0074E+00	1.0000E+00	86.0	9.4059E-01	1.0058E+00	146.0	1.7040E+00	1.2884E+00
26.0	1.0044E+00	1.0008E+00	88.0	1.0208E+00	1.0053E+00	148.0	2.1039E-01	1.4728E+00
28.0	9.9235E-01	1.0005E+00	90.0	1.0236E+00	1.0089E+00	150.0	1.6299E+00	1.4378E+00
30.0	9.9632E-01	9.9995E-01	92.0	9.2418E-01	1.0073E+00	152.0	9.6512E-01	1.5908E+00
32.0	1.0083E+00	1.0003E+00	94.0	1.0569E+00	1.0087E+00	154.0	6.4312E-01	1.7978E+00
34.0	1.0011E+00	1.0008E+00	96.0	9.8219E-01	1.0122E+00	156.0	2.3433E+00	1.6616E+00
36.0	9.9057E-01	1.0004E+00	98.0	9.3185E-01	1.0098E+00	158.0	1.0816E-02	2.4568E+00
38.0	1.0030E+00	1.0001E+00	100.0	1.0895E+00	1.0143E+00	160.0	2.7714E+00	1.8718E+00
40.0	1.0099E+00	1.0008E+00	102.0	9.0948E-01	1.0158E+00	162.0	1.6651E+00	3.3484E+00
42.0	9.9195E-01	1.0010E+00	104.0	9.9310E-01	1.0149E+00	164.0	1.3368E+00	2.9925E+00
44.0	9.9199E-01	1.0003E+00	106.0	1.0708E+00	1.0220E+00	166.0	6.1172E+00	4.1119E+00
46.0	1.0122E+00	1.0006E+00	108.0	8.4645E-01	1.0205E+00	168.0	1.4852E+00	7.5274E+00
48.0	1.0008E+00	1.0013E+00	110.0	1.1033E+00	1.0250E+00	170.0	9.8097E+00	4.1361E+00
50.0	9.8503E-01	1.0007E+00	112.0	9.4988E-01	1.0307E+00	172.0	2.2323E+01	2.5923E+01
52.0	1.0087E+00	1.0005E+00	114.0	8.8891E-01	1.0300E+00	174.0	4.3526E+00	7.8826E+00
54.0	1.0100E+00	1.0015E+00	116.0	1.1611E+00	1.0401E+00	176.0	2.2370E+02	1.5528E+02
56.0	9.8128E-01	1.0013E+00	118.0	7.7464E-01	1.0417E+00	178.0	9.3523E+02	8.7757E+02
58.0	1.0016E+00	1.0007E+00	120.0	1.0899E+00	1.0491E+00	180.0	1.4101E+03	1.4101E+03
60.0	1.0174E+00	1.0018E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=37.4

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0140E+00	1.0140E+00	62.0	9.9427E-01	1.0022E+00	122.0	1.0985E+00	1.0581E+00	180.0	1.4251E+03	1.4251E+03
2.0	1.0055E+00	1.0110E+00	64.0	9.7993E-01	1.0012E+00	124.0	7.1105E-01	1.0628E+00			
4.0	9.9148E-01	1.0045E+00	66.0	1.0230E+00	1.0017E+00	126.0	1.2553E+00	1.0759E+00			
6.0	9.9030E-01	9.9938E-01	68.0	9.9608E-01	1.0029E+00	128.0	7.5222E-01	1.0843E+00			
8.0	1.0020E+00	9.9849E-01	70.0	9.7342E-01	1.0018E+00	130.0	9.8253E-01	1.1017E+00			
10.0	1.0085E+00	1.0002E+00	72.0	1.0281E+00	1.0024E+00	132.0	1.1604E+00	1.1104E+00			
12.0	1.0011E+00	1.0011E+00	74.0	9.9300E-01	1.0038E+00	134.0	5.6143E-01	1.1390E+00			
14.0	9.9350E-01	1.0004E+00	76.0	9.6868E-01	1.0025E+00	136.0	1.4187E+00	1.1493E+00			
16.0	9.9868E-01	9.9968E-01	78.0	1.0370E+00	1.0035E+00	138.0	5.8115E-01	1.1810E+00			
18.0	1.0058E+00	1.0002E+00	80.0	9.8186E-01	1.0051E+00	140.0	1.0816E+00	1.2196E+00			
20.0	1.0008E+00	1.0007E+00	82.0	9.6966E-01	1.0034E+00	142.0	1.1792E+00	1.2228E+00			
22.0	9.9430E-01	1.0002E+00	84.0	1.0480E+00	1.0054E+00	144.0	4.2208E-01	1.3305E+00			
24.0	1.0009E+00	9.9989E-01	86.0	9.5903E-01	1.0065E+00	146.0	1.7333E+00	1.2898E+00			
26.0	1.0071E+00	1.0004E+00	88.0	9.8437E-01	1.0049E+00	148.0	2.8184E-01	1.4595E+00			
28.0	9.9769E-01	1.0008E+00	90.0	1.0518E+00	1.0082E+00	150.0	1.4710E+00	1.4559E+00			
30.0	9.9170E-01	1.0002E+00	92.0	9.2677E-01	1.0082E+00	152.0	1.1584E+00	1.5605E+00			
32.0	1.0040E+00	9.9998E-01	94.0	1.0221E+00	1.0077E+00	154.0	4.7300E-01	1.8240E+00			
34.0	1.0084E+00	1.0007E+00	96.0	1.0283E+00	1.0123E+00	156.0	2.4200E+00	1.6354E+00			
36.0	9.9357E-01	1.0008E+00	98.0	9.0477E-01	1.0103E+00	158.0	5.0676E-02	2.4553E+00			
38.0	9.9370E-01	1.0002E+00	100.0	1.0776E+00	1.0130E+00	160.0	2.6045E+00	1.8957E+00			
40.0	1.0098E+00	1.0004E+00	102.0	9.5726E-01	1.0167E+00	162.0	1.8817E+00	3.2658E+00			
42.0	1.0015E+00	1.0010E+00	104.0	9.3512E-01	1.0145E+00	164.0	1.1356E+00	3.1101E+00			
44.0	9.8730E-01	1.0006E+00	106.0	1.1057E+00	1.0212E+00	166.0	6.1486E+00	3.9224E+00			
46.0	1.0047E+00	1.0003E+00	108.0	8.5753E-01	1.0215E+00	168.0	1.6491E+00	7.7044E+00			
48.0	1.0111E+00	1.0011E+00	110.0	1.0477E+00	1.0236E+00	170.0	9.3202E+00	3.9471E+00			
50.0	9.8714E-01	1.0011E+00	112.0	1.0252E+00	1.0312E+00	172.0	2.2778E+01	2.5820E+01			
52.0	9.9580E-01	1.0004E+00	114.0	8.3139E-01	1.0298E+00	174.0	4.0505E+00	8.3393E+00			
54.0	1.0164E+00	1.0012E+00	116.0	1.1703E+00	1.0390E+00	176.0	2.2068E+02	1.5238E+02			
56.0	9.9009E-01	1.0016E+00	118.0	8.2384E-01	1.0425E+00	178.0	9.4086E+02	8.8235E+02			
58.0	9.8707E-01	1.0008E+00	120.0	9.9995E-01	1.0477E+00	180.0	1.4251E+03	1.4251E+03			
60.0	1.0198E+00	1.0013E+00									

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=37.6

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0090E+00	1.0050E+00	62.0	1.0109E+00	1.0021E+00	122.0	1.1716E+00	1.0580E+00
2.0	1.0043E+00	1.0075E+00	64.0	9.7480E-01	1.0017E+00	124.0	6.9238E-01	1.0624E+00
4.0	9.9523E-01	1.0037E+00	66.0	1.0094E+00	1.0013E+00	126.0	1.2008E+00	1.0753E+00
6.0	9.9197E-01	1.0001E+00	68.0	1.0152E+00	1.0028E+00	128.0	8.5525E-01	1.0837E+00
8.0	9.9916E-01	9.9868E-01	70.0	9.6925E-01	1.0023E+00	130.0	8.6025E-01	1.1010E+00
10.0	1.0075E+00	9.9971E-01	72.0	1.0121E+00	1.0019E+00	132.0	1.2577E+00	1.1102E+00
12.0	1.0045E+00	1.0010E+00	74.0	1.0164E+00	1.0038E+00	134.0	5.2708E-01	1.1366E+00
14.0	9.9426E-01	1.0008E+00	76.0	9.5983E-01	1.0030E+00	136.0	1.3710E+00	1.1515E+00
16.0	9.9392E-01	9.9975E-01	78.0	1.0216E+00	1.0028E+00	138.0	7.0025E-01	1.1755E+00
18.0	1.0045E+00	9.9968E-01	80.0	1.0106E+00	1.0052E+00	140.0	9.2538E-01	1.2234E+00
20.0	1.0076E+00	1.0005E+00	82.0	9.5159E-01	1.0039E+00	142.0	1.3217E+00	1.2178E+00
22.0	9.9651E-01	1.0007E+00	84.0	1.0391E+00	1.0046E+00	144.0	3.4011E-01	1.3291E+00
24.0	9.9384E-01	1.0000E+00	86.0	9.9084E-01	1.0070E+00	146.0	1.7217E+00	1.2941E+00
26.0	1.0043E+00	9.9999E-01	88.0	9.5231E-01	1.0051E+00	148.0	3.9820E-01	1.4438E+00
28.0	1.0050E+00	1.0006E+00	90.0	1.0596E+00	1.0074E+00	150.0	1.2944E+00	1.4750E+00
30.0	9.9374E-01	1.0006E+00	92.0	9.5168E-01	1.0090E+00	152.0	1.3477E+00	1.5315E+00
32.0	9.9666E-01	1.0000E+00	94.0	9.7847E-01	1.0072E+00	154.0	3.2500E-01	1.8462E+00
34.0	1.0090E+00	1.0003E+00	96.0	1.0627E+00	1.0117E+00	156.0	2.4643E+00	1.6162E+00
36.0	1.0010E+00	1.0009E+00	98.0	9.0358E-01	1.0113E+00	158.0	1.2047E-01	2.4449E+00
38.0	9.8917E-01	1.0005E+00	100.0	1.0413E+00	1.0118E+00	160.0	2.4200E+00	1.9289E+00
40.0	1.0027E+00	1.0001E+00	102.0	1.0130E+00	1.0171E+00	162.0	2.0979E+00	3.1763E+00
42.0	1.0098E+00	1.0008E+00	104.0	8.9147E-01	1.0147E+00	164.0	9.4749E-01	3.2297E+00
44.0	9.9115E-01	1.0009E+00	106.0	1.1110E+00	1.0200E+00	166.0	6.1543E+00	3.7387E+00
46.0	9.9408E-01	1.0003E+00	108.0	8.9814E-01	1.0227E+00	168.0	1.8325E+00	7.8663E+00
48.0	1.0137E+00	1.0007E+00	110.0	9.7844E-01	1.0225E+00	170.0	8.8312E+00	3.7838E+00
50.0	9.9697E-01	1.0014E+00	112.0	1.0905E+00	1.0311E+00	172.0	2.3206E+01	2.5684E+01
52.0	9.8549E-01	1.0007E+00	114.0	8.0384E-01	1.0302E+00	174.0	3.8026E+00	8.8321E+00
54.0	1.0126E+00	1.0007E+00	116.0	1.1431E+00	1.0376E+00	176.0	2.1763E+02	1.4949E+02
56.0	1.0043E+00	1.0017E+00	118.0	8.9909E-01	1.0433E+00	178.0	9.4644E+02	8.8707E+02
58.0	9.7989E-01	1.0011E+00	120.0	9.0631E-01	1.0466E+00	180.0	1.4403E+03	1.4403E+03
60.0	1.0107E+00	1.0009E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=37.8

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
E-PLANE			E-PLANE			E-PLANE		
ANGLE	H-PLANE		ANGLE	H-PLANE		ANGLE	H-PLANE	
0.0	9.9565E-01	9.9565E-01	62.0	1.0207E+00	1.0018E+00	122.0	1.2124E+00	1.0576E+00
2.0	9.9928E-01	9.9704E-01	64.0	9.8247E-01	1.0022E+00	124.0	7.1343E-01	1.0622E+00
4.0	1.0038E+00	9.9666E-01	66.0	9.9062E-01	1.0012E+00	126.0	1.1257E+00	1.0745E+00
6.0	1.0014E+00	1.0009E+00	68.0	1.0257E+00	1.0023E+00	128.0	9.7070E-01	1.0834E+00
8.0	9.9711E-01	1.0003E+00	70.0	9.7792E-01	1.0028E+00	130.0	7.5050E-01	1.1000E+00
10.0	9.9960E-01	9.9969E-01	72.0	9.8989E-01	1.0017E+00	132.0	1.3212E+00	1.1105E+00
12.0	1.0040E+00	1.0002E+00	74.0	1.0310E+00	1.0033E+00	134.0	5.3612E-01	1.1338E+00
14.0	1.0005E+00	1.0007E+00	76.0	9.6793E-01	1.0025E+00	136.0	1.2815E+00	1.1538E+00
16.0	9.9491E-01	1.0003E+00	78.0	9.9606E-01	1.0025E+00	138.0	8.3946E-01	1.1704E+00
18.0	9.9941E-01	9.9972E-01	80.0	1.0332E+00	1.0048E+00	140.0	7.7271E-01	1.2260E+00
20.0	1.0069E+00	1.0002E+00	82.0	9.5186E-01	1.0036E+00	142.0	1.4345E+00	1.2148E+00
22.0	1.0015E+00	1.0008E+00	84.0	1.0137E+00	1.0036E+00	144.0	2.9758E-01	1.3251E+00
24.0	9.3221E-01	1.0004E+00	86.0	1.0239E+00	1.0069E+00	146.0	1.6684E+00	1.3011E+00
26.0	9.9844E-01	9.9983E-01	88.0	9.3619E-01	1.0057E+00	148.0	5.2403E-01	1.4263E+00
28.0	1.0034E+00	1.0003E+00	90.0	1.0448E+00	1.0064E+00	150.0	1.1073E+00	1.4943E+00
30.0	1.0004E+00	1.0008E+00	92.0	9.9033E-01	1.0095E+00	152.0	1.5206E+00	1.5049E+00
32.0	9.9176E-01	1.0003E+00	94.0	9.4024E-01	1.0073E+00	154.0	2.0547E-01	1.8634E+00
34.0	1.0028E+00	1.0001E+00	96.0	1.0750E+00	1.0108E+00	156.0	2.4751E+00	1.6044E+00
36.0	1.0076E+00	1.0007E+00	98.0	9.2831E-01	1.0123E+00	158.0	2.1945E-01	2.4258E+00
38.0	9.9267E-01	1.0008E+00	100.0	9.9107E-01	1.0110E+00	160.0	2.2213E+00	1.9704E+00
40.0	9.9414E-01	1.0002E+00	102.0	1.0616E+00	1.0169E+00	162.0	2.3103E+00	3.0813E+00
42.0	1.0111E+00	1.0005E+00	104.0	8.7319E-01	1.0154E+00	164.0	7.8051E-01	3.3497E+00
44.0	1.0008E+00	1.0011E+00	106.0	1.0857E+00	1.0185E+00	166.0	6.1357E-01	3.5624E+00
46.0	9.8721E-01	1.0006E+00	108.0	9.5845E-01	1.0233E+00	168.0	2.0343E+00	8.0120E+00
48.0	1.0071E+00	1.0004E+00	110.0	9.1111E-01	1.0219E+00	170.0	8.3447E+00	3.6466E+00
50.0	1.0083E+00	1.0013E+00	112.0	1.1320E+00	1.0304E+00	172.0	2.3605E+01	2.5516E+01
52.0	9.8420E-01	1.0010E+00	114.0	8.1138E-01	1.0310E+00	174.0	3.6081E+00	9.3594E+00
54.0	1.0011E+00	1.0005E+00	116.0	1.0851E+00	1.0361E+00	176.0	2.1455E+02	1.4659E+02
56.0	1.0154E+00	1.0014E+00	118.0	9.8684E-01	1.0435E+00	178.0	9.5197E+02	8.9174E+02
58.0	9.8393E-01	1.0016E+00	120.0	8.2454E-01	1.0458E+00	180.0	1.4555E+03	1.4555E+03
60.0	9.9519E-01	1.0008E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=38.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.8703E-01	9.8703E-01	62.0	1.0184E+00	1.0013E+00	122.0	1.2143E+00	1.0568E+00
2.0	9.9535E-01	9.8947E-01	64.0	9.9874E-01	1.0024E+00	124.0	7.7190E-01	1.0623E+00
4.0	1.0089E+00	9.9632E-01	66.0	9.7642E-01	1.0014E+00	126.0	1.0295E+00	1.0736E+00
6.0	1.0093E+00	1.0011E+00	68.0	1.0225E+00	1.0015E+00	128.0	1.0839E+00	1.0833E+00
8.0	9.9762E-01	1.0017E+00	70.0	9.9744E-01	1.0037E+00	130.0	6.6613E-01	1.0988E+00
10.0	9.9238E-01	1.0001E+00	72.0	9.7202E-01	1.0020E+00	132.0	1.3438E+00	1.1111E+00
12.0	1.0004E+00	9.9935E-01	74.0	1.0301E+00	1.0026E+00	134.0	5.8758E-01	1.1308E+00
14.0	1.0065E+00	1.0007E+00	76.0	9.8904E-01	1.0041E+00	136.0	1.1712E+00	1.1560E+00
16.0	1.0003E+00	1.0007E+00	78.0	9.7138E-01	1.0026E+00	138.0	9.8757E-01	1.1661E+00
18.0	9.9471E-01	1.0002E+00	80.0	1.0403E+00	1.0041E+00	140.0	6.3511E-01	1.2272E+00
20.0	1.0010E+00	9.9935E-01	82.0	9.7008E-01	1.0052E+00	142.0	1.5216E+00	1.2140E+00
22.0	1.0054E+00	1.0004E+00	84.0	9.8185E-01	1.0037E+00	144.0	2.9682E-01	1.3187E+00
24.0	9.9733E-01	1.0006E+00	86.0	1.0460E+00	1.0064E+00	146.0	1.5735E+00	1.3101E+00
26.0	9.9413E-01	1.0001E+00	88.0	9.4164E-01	1.0065E+00	148.0	6.8212E-01	1.4078E+00
28.0	1.0049E+00	9.9990E-01	90.0	1.0128E+00	1.0052E+00	150.0	9.1907E-01	1.5127E+00
30.0	1.0064E+00	1.0007E+00	92.0	1.0297E+00	1.0095E+00	152.0	1.6837E-01	1.4815E+00
32.0	9.9316E-01	1.0007E+00	94.0	9.1958E-01	1.0080E+00	154.0	1.1624E-01	1.8750E+00
34.0	9.9477E-01	1.0001E+00	96.0	1.0617E+00	1.0096E+00	156.0	2.4521E+00	1.6002E+00
36.0	1.0087E+00	1.0003E+00	98.0	9.7131E-01	1.0130E+00	158.0	3.4467E-01	2.3986E+00
38.0	1.0014E+00	1.0009E+00	100.0	9.4138E-01	1.0107E+00	160.0	2.0120E+00	2.0192E+00
40.0	9.8971E-01	1.0005E+00	102.0	1.0901E+00	1.0161E+00	162.0	2.5159E+00	2.9823E+00
42.0	1.0044E+00	1.0002E+00	104.0	8.8462E-01	1.0165E+00	164.0	6.3430E-01	3.4686E+00
44.0	1.0091E+00	1.0010E+00	106.0	1.0365E+00	1.0173E+00	166.0	6.0927E+00	3.3949E+00
46.0	9.8874E-01	1.0009E+00	108.0	1.0242E+00	1.0239E+00	168.0	2.2516E+00	8.1406E+00
48.0	9.9599E-01	1.0003E+00	110.0	8.6052E-01	1.0219E+00	170.0	7.8626E+00	3.5557E+00
50.0	1.0141E+00	1.0009E+00	112.0	1.1415E+00	1.0298E+00	172.0	2.3976E+01	2.5317E+01
52.0	9.9251E-01	1.0014E+00	114.0	8.5213E-01	1.0320E+00	174.0	3.4666E+00	9.9199E+00
54.0	9.8883E-01	1.0006E+00	116.0	1.0076E+00	1.0348E+00	176.0	2.1145E+02	1.4369E+02
56.0	1.0168E+00	1.0010E+00	118.0	1.0715E+00	1.0442E+00	178.0	9.5745E+02	8.9835E+02
58.0	9.9657E-01	1.0018E+00	120.0	7.6814E-01	1.0454E+00	180.0	1.4708E+03	1.4708E+03
60.0	9.8213E-01	1.0010E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=38.2

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.9137E-01	9.9137E-01	62.0	1.0099E+00	1.0099E+00	122.0	1.1793E+00	1.0558E+00
2.0	9.9620E-01	9.9298E-01	64.0	1.0149E+00	1.0022E+00	124.0	8.5780E-01	1.0625E+00
4.0	1.0055E+00	9.9602E-01	66.0	9.7408E-01	1.0019E+00	126.0	9.1412E-01	1.0728E+00
6.0	1.0082E+00	1.0005E+00	68.0	1.0074E+00	1.0014E+00	128.0	1.1806E+00	1.0833E+00
8.0	1.0004E+00	1.0017E+00	70.0	1.0170E+00	1.0029E+00	130.0	6.1680E-01	1.0974E+00
10.0	9.9269E-01	1.0005E+00	72.0	9.6677E-01	1.0025E+00	132.0	1.3251E+00	1.1118E+00
12.0	9.9639E-01	9.9934E-01	74.0	1.0145E+00	1.0021E+00	134.0	6.7456E-01	1.1279E+00
14.0	1.0067E+00	9.9975E-01	76.0	1.0136E+00	1.0041E+00	136.0	1.0361E+00	1.1578E+00
16.0	1.0051E+00	1.0008E+00	78.0	9.5832E-01	1.0031E+00	138.0	1.1316E+00	1.1628E+00
18.0	9.9462E-01	1.0007E+00	80.0	1.0293E+00	1.0033E+00	140.0	5.2290E-01	1.2268E+00
20.0	9.9473E-01	9.9966E-01	82.0	9.9872E-01	1.0035E+00	142.0	1.5657E+00	1.2152E+00
22.0	1.0051E+00	9.9993E-01	84.0	9.5616E-01	1.0039E+00	144.0	3.3756E-01	1.3103E+00
24.0	1.0046E+00	1.0006E+00	86.0	1.0490E+00	1.0055E+00	146.0	1.4559E+00	1.3205E+00
26.0	9.9438E-01	1.0005E+00	88.0	9.6637E-01	1.0072E+00	148.0	8.5555E-01	1.3892E+00
28.0	9.9746E-01	9.9998E-01	90.0	9.7498E-01	1.0054E+00	150.0	7.3638E-01	1.5294E+00
30.0	1.0073E+00	1.0003E+00	92.0	1.0565E+00	1.0089E+00	152.0	1.8230E+00	1.4620E+00
32.0	9.9991E-01	1.0008E+00	94.0	9.2282E-01	1.0089E+00	154.0	6.0540E-02	1.8807E+00
34.0	9.9106E-01	1.0003E+00	96.0	1.0273E+00	1.0086E+00	156.0	2.3962E+00	1.6034E+00
36.0	1.0034E+00	1.0001E+00	98.0	1.0196E+00	1.0132E+00	158.0	4.9280E-01	2.3637E+00
38.0	1.0068E+00	1.0007E+00	100.0	9.0616E-01	1.0111E+00	160.0	1.7950E+00	2.0741E+00
40.0	9.9233E-01	1.0008E+00	102.0	1.0910E+00	1.0149E+00	162.0	2.7113E+00	2.8808E+00
42.0	9.9459E-01	1.0002E+00	104.0	9.2248E-01	1.0175E+00	164.0	5.1032E-01	3.5846E+00
44.0	1.0112E+00	1.0006E+00	106.0	9.7563E-01	1.0164E+00	166.0	6.0256E+00	3.2376E+00
46.0	9.9765E-01	1.0011E+00	108.0	1.0800E+00	1.0237E+00	168.0	2.4857E+00	8.2512E+00
48.0	9.8766E-01	1.0005E+00	110.0	8.3770E-01	1.0225E+00	170.0	7.3866E+00	3.4511E+00
50.0	1.0107E+00	1.0005E+00	112.0	1.1173E+00	1.0279E+00	172.0	2.4317E+01	2.5086E+01
52.0	1.0049E+00	1.0014E+00	114.0	9.1767E-01	1.0329E+00	174.0	3.3771E+00	1.0512E+01
54.0	9.8308E-01	1.0009E+00	116.0	9.2517E-01	1.0337E+00	176.0	2.0833E+02	1.4078E+02
56.0	1.0078E+00	1.0007E+00	118.0	1.1382E+00	1.0441E+00	178.0	9.8289E+02	9.0092E+02
58.0	1.0105E+00	1.0017E+00	120.0	7.4621E-01	1.0454E+00	180.0	1.4862E+03	1.4862E+03
60.0	9.7888E-01	1.0014E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=38.4

NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE
E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE	
0.0	1.0042E+00	62.0	9.8981E-01	1.0009E+00	122.0	1.1114E+00	1.0546E+00	
2.0	1.0008E+00	64.0	1.0223E+00	1.0018E+00	124.0	9.5874E-01	1.0628E+00	
4.0	9.9694E-01	66.0	9.8447E-01	1.0024E+00	126.0	8.1261E-01	1.0715E+00	
6.0	9.9958E-01	68.0	9.8812E-01	1.0013E+00	128.0	1.2485E+00	1.0833E+00	
8.0	1.0031E+00	70.0	1.0271E+00	1.0025E+00	130.0	6.0709E-01	1.0959E+00	
10.0	1.0001E+00	72.0	9.7639E-01	1.0030E+00	132.0	1.2675E+00	1.1126E+00	
12.0	9.9640E-01	74.0	9.9155E-01	1.0019E+00	134.0	7.8874E-01	1.1252E+00	
14.0	1.0008E+00	76.0	1.0306E+00	1.0036E+00	136.0	8.9550E-01	1.1589E+00	
16.0	1.0053E+00	78.0	9.6232E-01	1.0038E+00	138.0	1.2599E+00	1.1607E+00	
18.0	9.9942E-01	80.0	1.0052E+00	1.0028E+00	140.0	4.4439E-01	1.2248E+00	
20.0	9.9343E-01	82.0	1.0251E+00	1.0053E+00	142.0	1.5678E+00	1.2182E+00	
22.0	1.0008E+00	84.0	9.4647E-01	1.0046E+00	144.0	4.1608E-01	1.3004E+00	
24.0	1.0079E+00	86.0	1.0320E+00	1.0047E+00	146.0	1.3081E+00	1.3317E+00	
26.0	9.9904E-01	88.0	1.0011E+00	1.0075E+00	148.0	1.0317E+00	1.3714E+00	
28.0	9.9219E-01	90.0	9.4458E-01	1.0057E+00	150.0	5.6739E-01	1.5435E+00	
30.0	1.0027E+00	92.0	1.0621E+00	1.0080E+00	152.0	1.9319E+00	1.4472E+00	
32.0	1.0068E+00	94.0	9.4858E-01	1.0097E+00	154.0	3.9921E-02	1.8801E+00	
34.0	9.9413E-01	96.0	9.8264E-01	1.0080E+00	156.0	2.3068E+00	1.6138E+00	
36.0	9.9557E-01	98.0	1.0590E+00	1.0129E+00	158.0	6.6071E-01	2.3222E+00	
38.0	1.0094E+00	100.0	8.9519E-01	1.0119E+00	160.0	1.5772E+00	2.1399E+00	
40.0	1.0001E+00	102.0	1.0645E+00	1.0136E+00	162.0	2.8936E+00	2.7783E+00	
42.0	9.8859E-01	104.0	9.7669E-01	1.0182E+00	164.0	4.0974E-01	3.6961E+00	
44.0	1.0057E+00	106.0	9.1827E-01	1.0160E+00	166.0	5.9350E+00	3.0919E+00	
46.0	1.0079E+00	108.0	1.1130E+00	1.0230E+00	168.0	2.7318E+00	8.3429E+00	
48.0	9.8728E-01	110.0	8.4741E-01	1.0234E+00	170.0	6.9186E+00	3.3929E+00	
50.0	1.0003E+00	112.0	1.0650E+00	1.0264E+00	172.0	2.4627E+01	2.4826E+01	
52.0	1.0137E+00	114.0	9.9475E-01	1.0336E+00	174.0	3.3389E+00	1.1134E+01	
54.0	9.8723E-01	116.0	8.5347E-01	1.0332E+00	176.0	2.0518E+02	1.3787E+02	
56.0	9.9403E-01	118.0	1.1754E+00	1.0435E+00	178.0	9.6827E+02	9.0542E+02	
58.0	1.0178E+00	120.0	7.6204E-01	1.0458E+00	180.0	1.5017E+03	1.5017E+03	
60.0	9.8715E-01							

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=38.6

NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION			NORMALIZED CROSS SECTION		
ANGLE	E-PLANE		ANGLE	E-PLANE		ANGLE	E-PLANE	
	H-PLANE	H-PLANE		H-PLANE	H-PLANE		H-PLANE	H-PLANE
0.0	1.0129E+00	1.0129E+00	62.0	9.7915E-01	1.0012E+00	122.0	1.0221E+00	1.0533E+00
2.0	1.0046E+00	1.0039E+00	64.0	1.0017E+00	1.0013E+00	124.0	1.0599E+00	1.0630E+00
4.0	9.9158E-01	1.0037E+00	66.0	1.0020E+00	1.0025E+00	126.0	7.3253E-01	1.0705E+00
6.0	9.5193E-01	9.9917E-01	68.0	9.7438E-01	1.0016E+00	128.0	1.2797E+00	1.0834E+00
8.0	1.0033E+00	9.9878E-01	70.0	1.0231E+00	1.0019E+00	130.0	6.4037E-01	1.0944E+00
10.0	1.0073E+00	1.0004E+00	72.0	9.9618E-01	1.0033E+00	132.0	1.1757E+00	1.1132E+00
12.0	9.9992E-01	1.0010E+00	74.0	9.7201E-01	1.0021E+00	134.0	9.1853E-01	1.1230E+00
14.0	9.9426E-01	1.0001E+00	76.0	1.0329E+00	1.0030E+00	136.0	7.6127E-01	1.1592E+00
16.0	1.0012E+00	9.9975E-01	78.0	9.8139E-01	1.0043E+00	138.0	1.3610E+00	1.1599E+00
18.0	1.0050E+00	1.0004E+00	80.0	9.7810E-01	1.0028E+00	140.0	4.0529E-01	1.2212E+00
20.0	9.9787E-01	1.0006E+00	82.0	1.0413E+00	1.0048E+00	142.0	1.5283E+00	1.2227E+00
22.0	9.9572E-01	1.0000E+00	84.0	9.5625E-01	1.0053E+00	144.0	5.2963E-01	1.2884E+00
24.0	1.0044E+00	1.0000E+00	86.0	1.0017E+00	1.0041E+00	146.0	1.1432E+00	1.3429E+00
26.0	1.0043E+00	1.0006E+00	88.0	1.0332E+00	1.0073E+00	148.0	1.2112E+00	1.3551E+00
28.0	9.9346E-01	1.0005E+00	90.0	9.3200E-01	1.0063E+00	150.0	4.1941E-01	1.5544E+00
30.0	9.9642E-01	9.995E-01	92.0	1.0449E+00	1.0070E+00	152.0	2.0075E+00	1.4374E+00
32.0	1.0084E+00	1.0003E+00	94.0	9.8929E-01	1.0103E+00	154.0	5.4792E-02	1.8733E+00
34.0	1.0013E+00	1.0008E+00	96.0	9.4164E-01	1.0080E+00	156.0	2.1925E+00	1.6309E+00
36.0	9.9090E-01	1.0004E+00	98.0	1.0780E+00	1.0120E+00	158.0	8.4306E-01	2.2748E+00
38.0	1.0032E+00	1.0001E+00	100.0	9.1127E-01	1.0129E+00	160.0	1.3598E+00	2.1972E+00
40.0	1.0077E+00	1.0008E+00	102.0	1.0182E+00	1.0125E+00	162.0	3.0601E+00	2.6763E+00
42.0	9.9078E-01	1.0008E+00	104.0	1.0332E+00	1.0184E+00	164.0	3.3345E-01	3.8018E+00
44.0	9.9645E-01	1.0002E+00	106.0	8.7844E-01	1.0163E+00	166.0	5.8215E+00	2.9588E+00
46.0	1.0125E+00	1.0007E+00	108.0	1.1159E+00	1.0218E+00	168.0	2.9891E+00	8.4153E+00
48.0	9.9479E-01	1.00012E+00	110.0	8.8711E-01	1.0248E+00	170.0	6.4604E+00	3.3610E+00
50.0	9.8952E-01	1.0005E+00	112.0	9.9581E-01	1.0252E+00	172.0	2.4906E+01	2.4536E+01
52.0	1.0135E+00	1.0008E+00	114.0	1.0680E+00	1.0338E+00	174.0	3.3512E+00	1.1784E+01
54.0	9.9873E-01	1.0015E+00	116.0	8.0576E-01	1.0331E+00	176.0	2.0201E+02	1.3497E+02
56.0	9.8382E-01	1.0008E+00	118.0	1.1768E+00	1.0424E+00	178.0	9.7361E+02	9.0988E+02
58.0	1.0144E+00	1.0009E+00	120.0	8.1262E-01	1.0464E+00	180.0	1.5173E+03	1.5173E+03
60.0	1.0020E+00	1.0019E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=38.8

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	1.0091E+00	1.0091E+00	62.0	9.7943E-01	1.0016E+00	122.0	9.2503E-01	1.0522E+00
2.0	1.0040E+00	1.0074E+00	64.0	1.0023E+00	1.0010E+00	124.0	1.1405E+00	1.0631E+00
4.0	9.9460E-01	1.0034E+00	66.0	1.0175E+00	1.0020E+00	126.0	6.8487E-01	1.0697E+00
6.0	9.9244E-01	9.9976E-01	68.0	9.7306E-01	1.0021E+00	128.0	1.2703E+00	1.0833E+00
8.0	1.0007E+00	9.9874E-01	70.0	1.0072E+00	1.0015E+00	130.0	7.0979E-01	1.0931E+00
10.0	1.0077E+00	9.9999E-01	72.0	1.0167E+00	1.0032E+00	132.0	1.0609E+00	1.1134E+00
12.0	1.0022E+00	1.0011E+00	74.0	9.6476E-01	1.0026E+00	134.0	1.0508E+00	1.1214E+00
14.0	9.9324E-01	1.0005E+00	76.0	1.0195E+00	1.0024E+00	136.0	6.4565E-01	1.1585E+00
16.0	9.9659E-01	9.9932E-01	78.0	1.0070E+00	1.0044E+00	138.0	1.4276E+00	1.1604E+00
18.0	1.0064E+00	9.9932E-01	80.0	9.5933E-01	1.0032E+00	140.0	4.0826E-01	1.2162E+00
20.0	1.0039E+00	1.0007E+00	82.0	1.0333E+00	1.0040E+00	142.0	1.4498E+00	1.2284E+00
22.0	9.9418E-01	1.0005E+00	84.0	9.8137E-01	1.0058E+00	144.0	6.6908E-01	1.2781E+00
24.0	9.9753E-01	9.9990E-01	86.0	9.6972E-01	1.0041E+00	146.0	9.7031E-01	1.3533E+00
26.0	1.0063E+00	1.0002E+00	88.0	1.0512E+00	1.0067E+00	148.0	1.3732E+00	1.3411E+00
28.0	1.0001E+00	1.0007E+00	90.0	9.4139E-01	1.0072E+00	150.0	2.9844E-01	1.5615E+00
30.0	9.9305E-01	1.0002E+00	92.0	1.0110E+00	1.0062E+00	152.0	2.0479E+00	1.4327E+00
32.0	1.0034E+00	1.0000E+00	94.0	1.0291E+00	1.0103E+00	154.0	1.0432E-01	1.8605E+00
34.0	1.0071E+00	1.0006E+00	96.0	9.1690E-01	1.0086E+00	156.0	2.0505E+00	1.6540E+00
36.0	9.9294E-01	1.0007E+00	98.0	1.0713E+00	1.0109E+00	158.0	1.0370E+00	2.2228E+00
38.0	9.9493E-01	1.0001E+00	100.0	9.4954E-01	1.0138E+00	160.0	1.1477E+00	2.2626E+00
40.0	1.0098E+00	1.0004E+00	102.0	9.6479E-01	1.0119E+00	162.0	3.2081E+00	2.5765E+00
42.0	9.9914E-01	1.0010E+00	104.0	1.0774E+00	1.0180E+00	164.0	2.8209E-01	3.9003E+00
44.0	9.8954E-01	1.0004E+00	106.0	8.6565E-01	1.0171E+00	166.0	5.6872E+00	2.8394E+00
46.0	1.0084E+00	1.0004E+00	108.0	1.0884E+00	1.0204E+00	168.0	3.2557E+00	8.4679E+00
48.0	1.0052E+00	1.0012E+00	110.0	9.4767E-01	1.0254E+00	170.0	6.0138E+00	3.3550E+00
50.0	9.8538E-01	1.0008E+00	112.0	9.2447E-01	1.0244E+00	172.0	2.5152E+01	2.4218E+01
52.0	1.0048E+00	1.0005E+00	114.0	1.1228E+00	1.0335E+00	174.0	3.4130E+00	1.2462E+01
54.0	1.0106E+00	1.0014E+00	116.0	7.9073E-01	1.0335E+00	176.0	1.9882E+02	1.3206E+02
56.0	9.8305E-01	1.0012E+00	118.0	1.1426E+00	1.0412E+00	178.0	9.7889E+02	9.1427E+02
58.0	1.0025E+00	1.0007E+00	120.0	8.8920E-01	1.0471E+00	180.0	1.5329E+03	1.5329E+03
60.0	1.0150E+00	1.0017E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=39.0

ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION	
	E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE
0.0	9.9680E-01	9.9600E-01	62.0	9.9036E-01	1.0020E+00	122.0	8.3700E-01	1.0512E+00
2.0	9.9981E-01	9.9777E-01	64.0	9.8603E-01	1.0010E+00	124.0	1.2052E+00	1.0630E+00
4.0	1.0030E+00	1.0001E+00	66.0	1.0231E+00	1.0018E+00	126.0	6.7554E-01	1.0690E+00
6.0	1.0003E+00	1.0009E+00	68.0	9.8466E-01	1.0025E+00	128.0	1.2213E+00	1.0831E+00
8.0	9.9740E-01	1.0031E+00	70.0	9.8735E-01	1.0014E+00	130.0	8.0779E-01	1.0920E+00
10.0	1.0709E+00	9.9474E-01	72.0	1.0281E+00	1.0032E+00	132.0	9.3562E-01	1.1133E+00
12.0	1.0037E+00	1.0004E+00	74.0	9.7286E-01	1.0032E+00	134.0	1.1725E+00	1.1204E+00
14.0	9.9654E-01	1.0006E+00	76.0	9.9668E-01	1.0021E+00	136.0	5.5916E-01	1.1569E+00
16.0	9.9531E-01	1.0000E+00	78.0	1.0281E+00	1.0041E+00	138.0	1.4541E+00	1.1619E+00
18.0	1.0022E+00	9.9977E-01	80.0	5.5653E-01	1.0038E+00	140.0	4.5276E-01	1.2103E+00
20.0	1.0063E+00	1.0004E+00	82.0	1.0186E+00	1.0033E+00	142.0	1.3362E+00	1.2346E+00
22.0	9.9756E-01	1.0007E+00	84.0	1.0119E+00	1.0059E+00	144.0	8.2575E-01	1.2671E+00
24.0	9.9313E-01	1.0001E+00	86.0	9.4799E-01	1.0045E+00	146.0	7.9907E-01	1.3623E+00
26.0	1.0035E+00	9.9990E-01	88.0	1.0487E+00	1.0058E+00	148.0	1.5219E+00	1.3299E+00
28.0	1.0065E+00	1.0005E+00	90.0	9.6922E-01	1.0078E+00	150.0	2.0953E-01	1.5644E+00
30.0	9.9493E-01	1.0006E+00	92.0	9.7197E-01	1.0060E+00	152.0	2.0513E+00	1.4333E+00
32.0	9.9574E-01	1.0001E+00	94.0	1.0579E+00	1.0097E+00	154.0	1.8897E-01	1.8421E+00
34.0	1.0075E+00	1.0003E+00	96.0	9.1582E-01	1.0094E+00	156.0	1.8867E+00	1.6823E+00
36.0	1.0002E+00	1.0003E+00	98.0	1.0413E+00	1.0096E+00	158.0	1.2375E+00	2.1672E+00
38.0	9.9660E-01	1.0004E+00	100.0	9.9890E-01	1.0142E+00	160.0	9.4462E-01	2.3287E+00
40.0	1.0049E+00	1.0002E+00	102.0	9.1874E-01	1.0119E+00	162.0	3.3555E+00	2.4802E+00
42.0	1.0077E+00	1.0009E+00	104.0	1.0982E+00	1.0171E+00	164.0	2.5598E-01	3.9901E+00
44.0	9.9853E-01	1.0008E+00	106.0	8.8270E-01	1.0181E+00	166.0	5.5322E+00	2.7346E+00
46.0	9.9865E-01	1.0003E+00	108.0	1.0372E+00	1.0191E+00	168.0	3.5297E+00	8.5003E+00
48.0	1.0119E+00	1.0005E+00	110.0	1.0155E+00	1.0259E+00	170.0	5.5803E+00	3.3746E+00
50.0	9.9045E-01	1.0011E+00	112.0	8.6595E-01	1.0242E+00	172.0	2.5366E+00	2.3874E+00
52.0	9.9320E-01	1.0004E+00	114.0	1.1487E+00	1.0326E+00	174.0	3.5234E+00	1.3164E+01
54.0	1.0156E+00	1.0010E+00	116.0	8.1085E-01	1.0343E+00	176.0	1.9562E+02	1.2916E+02
56.0	9.9187E-01	1.0015E+00	118.0	1.0792E+00	1.0398E+00	178.0	9.8412E+02	9.1861E+02
58.0	9.8888E-01	1.0007E+00	120.0	9.7884E-01	1.0477E+00	180.0	1.5486E+03	1.5486E+03
60.0	1.0188E+00	1.0013E+00						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=39.2

NORMALIZED CROSS SECTION E-PLANE		ANGLE	NORMALIZED CROSS SECTION H-PLANE		ANGLE	NORMALIZED CROSS SECTION E-PLANE		ANGLE	NORMALIZED CROSS SECTION H-PLANE	
ANGLE										
0.0	9.8909E-01		9.8809E-01	1.0059E+00	62.0	1.0059E+00	1.0020E+00	122.0	7.6997E-01	1.0508E+00
2.0	9.9620E-01		9.9098E-01	9.7696E-01	64.0	9.7696E-01	1.0014E+00	124.0	1.2336E+00	1.0626E+00
4.0	1.0087E-00		9.9703E-01	1.0162E+00	66.0	1.0162E+00	1.0013E+00	126.0	7.0555E-01	1.0686E+00
6.0	1.0076E+00		1.0012E+00	1.0031E+00	68.0	1.0031E+00	1.0026E+00	128.0	1.1411E+00	1.0826E+00
8.0	9.9647E-01		1.0014E+00	9.7329E-01	70.0	9.7329E-01	1.0018E+00	130.0	9.2266E-01	1.0913E+00
10.0	9.9372E-01		9.9985E-01	1.0252E+00	72.0	1.0252E+00	1.0031E+00	132.0	8.1374E-01	1.1128E+00
12.0	1.0022E+00		9.9951E-01	9.9228E-01	74.0	9.9228E-01	1.0035E+00	134.0	1.2714E+00	1.1202E+00
14.0	1.0054E+00		1.0004E+00	9.7464E-01	76.0	9.7464E-01	1.0032E+00	136.0	5.0938E-01	1.1544E+00
16.0	9.9305E-01		1.0006E+00	1.0356E+00	78.0	1.0356E+00	1.0035E+00	138.0	1.4385E+00	1.1644E+00
18.0	9.9604E-01		1.0000E+00	9.7068E-01	80.0	9.7068E-01	1.0044E+00	140.0	5.3512E-01	1.2038E+00
20.0	1.0034E+00		9.9939E-01	9.9048E-01	82.0	9.9048E-01	1.0031E+00	142.0	1.2013E+00	1.2408E+00
22.0	1.0022E+00		1.0005E+00	1.0360E+00	84.0	1.0360E+00	1.0055E+00	144.0	9.9009E-01	1.2570E+00
24.0	9.9473E-01		1.0004E+00	9.4458E-01	86.0	9.4458E-01	1.0052E+00	146.0	6.3883E-01	1.3693E+00
26.0	9.9796E-01		9.9911E-01	1.0272E+00	88.0	1.0272E+00	1.0050E+00	148.0	1.6410E+00	1.3219E+00
28.0	1.0075E+00		1.0002E+00	1.0055E+00	90.0	1.0055E+00	1.0081E+00	150.0	1.5626E-01	1.5630E+00
30.0	1.0005E+00		1.0007E+00	9.4098E-01	92.0	9.4098E-01	1.0082E+00	152.0	2.0181E+00	1.4390E+00
32.0	9.9157E-01		1.0003E+00	1.0657E+00	94.0	1.0657E+00	1.0088E+00	154.0	2.9953E-01	1.8188E+00
34.0	1.0025E+00		1.0000E+00	9.3836E-01	96.0	9.3836E-01	1.0103E+00	156.0	1.7058E+00	1.7148E+00
36.0	1.0073E+00		1.0006E+00	9.9706E-01	98.0	9.9706E-01	1.0090E+00	158.0	1.4398E+00	2.1095E+00
38.0	9.9304E-01		1.0007E+00	1.0453E+00	100.0	1.0453E+00	1.0142E+00	160.0	7.5436E-01	2.3941E+00
40.0	9.9646E-01		1.0001E+00	8.9235E-01	102.0	8.9235E-01	1.0125E+00	162.0	3.4404E+00	2.3888E+00
42.0	1.0105E+00		1.0006E+00	1.0905E+00	104.0	1.0905E+00	1.0159E+00	164.0	2.5515E-01	4.0703E+00
44.0	9.9640E-01		1.0010E+00	9.2505E-01	106.0	9.2505E-01	1.0191E+00	166.0	5.3562E+00	2.6452E+00
46.0	9.8989E-01		1.0004E+00	9.7451E-01	108.0	9.7451E-01	1.0182E+00	168.0	3.8091E+00	8.5124E+00
48.0	1.0107E+00		1.0005E+00	1.0754E+00	110.0	1.0754E+00	1.0258E+00	170.0	5.1615E+00	3.4192E+00
50.0	1.0013E+00		1.0012E+00	8.3241E-01	112.0	8.3241E-01	1.0245E+00	172.0	2.5546E+01	2.3503E+01
52.0	9.8578E-01		1.0007E+00	1.1408E+00	114.0	1.1408E+00	1.0314E+00	174.0	3.6813E+00	1.3890E+01
54.0	1.0107E+00		1.0006E+00	8.6200E-01	116.0	8.6200E-01	1.0322E+00	176.0	1.9240E+02	1.2627E+02
56.0	1.0048E+00		1.0016E+00	9.9816E-01	118.0	9.9816E-01	1.0385E+00	178.0	9.8930E+02	9.8289E+02
58.0	9.8141E-01		1.0010E+00	1.0666E+00	120.0	1.0666E+00	1.0480E+00	180.0	1.5644E+03	1.5644E+03
60.0	1.0115E+00		1.0009E+00							

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

KA=39.4

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=39.6

NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE	NORMALIZED CROSS SECTION		ANGLE
ANGLE	E-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE		E-PLANE	H-PLANE	
0.0	1.0031E+00	0.0	1.0031E+00	1.0031E+00	62.0	1.0189E+00	1.0021E+00	122.0	7.3656E-01	1.0503E+00	122.0
2.0	1.0003E+00	2.0	1.0003E+00	1.0021E+00	64.0	9.9265E-01	1.0021E+00	124.0	1.1610E+00	1.0611E+00	124.0
4.0	9.9771E-01	4.0	1.0001E+00	1.0012E+00	66.0	9.8409E-01	1.0012E+00	126.0	8.6114E-01	1.0603E+00	126.0
6.0	1.0006E+00	6.0	9.9964E-01	1.0019E+00	68.0	1.0243E+00	1.0019E+00	128.0	9.2675E-01	1.0811E+00	128.0
8.0	1.0027E+00	8.0	1.0004E+00	1.0027E+00	70.0	9.8307E-01	1.0027E+00	130.0	1.1493E+00	1.0907E+00	130.0
10.0	9.9881E-01	10.0	1.0006E+00	1.0030E+00	72.0	9.8890E-01	1.0030E+00	132.0	6.3008E-01	1.1103E+00	132.0
12.0	9.9594E-01	12.0	9.9994E-01	1.0030E+00	74.0	1.0281E+00	1.0030E+00	134.0	1.3654E+00	1.1214E+00	134.0
14.0	1.0025E+00	14.0	9.9981E-01	1.0032E+00	76.0	9.6745E-01	1.0032E+00	136.0	5.3334E-01	1.1477E+00	136.0
16.0	1.0044E+00	16.0	1.0005E+00	1.0042E+00	78.0	1.0054E+00	1.0042E+00	138.0	1.2908E+00	1.1706E+00	138.0
18.0	9.9888E-01	18.0	1.0006E+00	1.0046E+00	80.0	1.0209E+00	1.0046E+00	140.0	7.8481E-01	1.1908E+00	140.0
20.0	9.9481E-01	20.0	9.9995E-01	1.0037E+00	82.0	9.5338E-01	1.0037E+00	142.0	8.9032E-01	1.2514E+00	142.0
22.0	1.0042E+00	22.0	9.9988E-01	1.0041E+00	84.0	1.0340E+00	1.0041E+00	144.0	1.3011E+00	1.2415E+00	144.0
24.0	1.0057E+00	24.0	1.0005E+00	1.0063E+00	86.0	9.8938E-01	1.0063E+00	146.0	3.8502E-01	1.3756E+00	146.0
26.0	9.9486E-01	26.0	1.0006E+00	1.0046E+00	88.0	9.6259E-01	1.0046E+00	148.0	1.7787E+00	1.3167E+00	148.0
28.0	9.9567E-01	28.0	9.9999E-01	1.0071E+00	90.0	1.0544E+00	1.0071E+00	150.0	1.6317E-01	1.5475E+00	150.0
30.0	1.0066E+00	30.0	1.0002E+00	1.0077E+00	92.0	9.3761E-01	1.0077E+00	152.0	1.8484E+00	1.4638E+00	152.0
32.0	1.0012E+00	32.0	1.0007E+00	1.0070E+00	94.0	1.0167E+00	1.0070E+00	154.0	5.9851E-01	1.7597E+00	154.0
34.0	9.9236E-01	34.0	1.0003E+00	1.0111E+00	96.0	1.0248E+00	1.0111E+00	156.0	1.3122E+00	1.7881E+00	156.0
36.0	1.0036E+00	36.0	1.0001E+00	1.0091E+00	98.0	9.1909E-01	1.0091E+00	158.0	1.8310E+00	1.9925E+00	158.0
38.0	1.0068E+00	38.0	1.0007E+00	1.0125E+00	100.0	1.0818E+00	1.0125E+00	160.0	4.2349E-01	2.5171E+00	160.0
40.0	9.9122E-01	40.0	1.0007E+00	1.0144E+00	102.0	9.1890E-01	1.0144E+00	162.0	3.5767E+00	2.2260E+00	162.0
42.0	9.9740E-01	42.0	1.0002E+00	1.0137E+00	104.0	1.0037E+00	1.0137E+00	164.0	3.2799E-01	4.1974E+00	164.0
44.0	1.0108E+00	44.0	1.0007E+00	1.0199E+00	106.0	1.0397E+00	1.0199E+00	166.0	4.9594E+00	2.5143E+00	166.0
46.0	9.9390E-01	46.0	1.0010E+00	1.0180E+00	108.0	8.7304E-01	1.0180E+00	168.0	4.3761E+00	8.4759E+00	168.0
48.0	9.9261E-01	48.0	1.0004E+00	1.0241E+00	110.0	1.1242E+00	1.0241E+00	170.0	4.3740E+00	3.5810E+00	170.0
50.0	1.0133E+00	50.0	1.0007E+00	1.0262E+00	112.0	8.6084E-01	1.0262E+00	172.0	2.5805E+01	2.2688E+01	172.0
52.0	9.9572E-01	52.0	1.0013E+00	1.0387E+00	114.0	1.0379E+00	1.0387E+00	174.0	4.1352E+00	1.5406E+01	174.0
54.0	9.8793E-01	54.0	1.0006E+00	1.0365E+00	116.0	1.0140E+00	1.0365E+00	176.0	1.8591E+02	1.2050E+02	176.0
56.0	1.0149E+00	56.0	1.0009E+00	1.0369E+00	118.0	8.4152E-01	1.0369E+00	178.0	9.9949E+02	9.3128E+02	178.0
58.0	9.9598E-01	58.0	1.0016E+00	1.0475E+00	120.0	1.1810E+00	1.0475E+00	180.0	1.5963E+03	1.5963E+03	180.0
60.0	9.8499E-01	60.0	1.0009E+00								

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=39.8

ANGLE	NORMALIZED CROSS SECTION E-PLANE	ANGLE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	ANGLE	NORMALIZED CROSS SECTION H-PLANE
0.0	1.0118E+00	62.0	1.0094E+00	122.0	7.7471E-01	1.0506E+00	
2.0	1.0037E+00	64.0	1.0086E+00	124.0	1.0875E+00	1.0601E+00	
4.0	9.8184E-01	66.0	9.7554E-01	126.0	9.6504E-01	1.0684E+00	
6.0	9.9352E-01	68.0	1.0167E+00	128.0	8.2053E-01	1.0801E+00	
8.0	1.0043E+00	70.0	1.0018E+00	130.0	1.2326E+00	1.0908E+00	
10.0	1.0059E+00	72.0	9.7306E-01	132.0	5.8818E-01	1.1085E+00	
12.0	9.9736E-01	74.0	1.0282E+00	134.0	1.3515E+00	1.1227E+00	
14.0	9.9567E-01	76.0	9.8509E-01	136.0	6.0423E-01	1.1439E+00	
16.0	1.0030E+00	78.0	9.8110E-01	138.0	1.1716E+00	1.1736E+00	
18.0	1.0032E+00	80.0	1.0359E+00	140.0	9.3278E-01	1.1851E+00	
20.0	9.9606E-01	82.0	9.5897E-01	142.0	7.3890E-01	1.2548E+00	
22.0	9.9845E-01	84.0	1.0092E+00	144.0	1.4285E+00	1.2368E+00	
24.0	1.0059E+00	86.0	1.0203E+00	146.0	3.0524E-01	1.3744E+00	
26.0	9.9992E-01	88.0	9.4303E-01	148.0	1.7908E+00	1.3194E+00	
28.0	9.9779E-01	90.0	1.0503E+00	150.0	2.2353E-01	1.5341E+00	
30.0	1.0025E+00	92.0	9.6582E-01	152.0	1.7185E+00	1.4817E+00	
32.0	1.0071E+00	94.0	9.7634E-01	154.0	7.7495E-01	1.7262E+00	
34.0	9.9443E-01	96.0	1.0545E+00	156.0	1.1103E+00	1.8265E+00	
36.0	9.9572E-01	98.0	9.0824E-01	158.0	2.0110E+00	1.9360E+00	
38.0	1.0085E+00	100.0	1.0622E+00	160.0	2.9270E-01	2.5722E+00	
40.0	9.9825E-01	102.0	9.6406E-01	162.0	3.6061E+00	2.1568E+00	
42.0	9.9090E-01	104.0	9.5105E-01	164.0	4.0029E-01	4.2428E+00	
44.0	1.0085E+00	106.0	1.0837E+00	166.0	4.7383E+00	2.4737E+00	
46.0	1.0035E+00	108.0	8.5761E-01	168.0	4.6598E+00	8.4276E+00	
48.0	9.8735E-01	110.0	1.1028E+00	170.0	4.0080E+00	3.6965E+00	
50.0	1.0066E+00	112.0	9.1577E-01	172.0	2.5886E+01	2.2248E+01	
52.0	1.0068E+00	114.0	9.6386E-01	174.0	4.4290E+00	1.6192E+01	
54.0	9.8410E-01	116.0	1.0860E+00	176.0	1.8265E+02	1.1764E+02	
56.0	1.0065E+00	118.0	7.9348E-01	178.0	1.0045E+03	9.3539E+02	
58.0	1.0093E+00	120.0	1.1893E+00	180.0	1.6123E+03	1.6123E+03	
60.0	9.8047E-01						

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

BISTATIC SCATTERING FROM CONDUCTING SPHERE

KA=40.0

ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE	ANGLE	NORMALIZED CROSS SECTION E-PLANE	NORMALIZED CROSS SECTION H-PLANE
0.0	1.0091E+00	1.0091E+00	62.0	9.9445E-01	1.0008E+00
2.0	1.0036E+00	1.0072E+00	64.0	1.0191E+00	1.0018E+00
4.0	9.9410E-01	1.0030E+00	66.0	9.7920E-01	1.0020E+00
6.0	9.9309E-01	9.9950E-01	68.0	1.0003E+00	1.0012E+00
8.0	1.0021E+00	9.9886E-01	70.0	1.0187E+00	1.0026E+00
10.0	1.0073E+00	1.0002E+00	72.0	9.6946E-01	1.0023E+00
12.0	1.0001E+00	1.0010E+00	74.0	1.0146E+00	1.0019E+00
14.0	9.9314E-01	1.0002E+00	76.0	1.0081E+00	1.0037E+00
16.0	9.9942E-01	9.9950E-01	78.0	9.6422E-01	1.0027E+00
18.0	1.0068E+00	1.0002E+00	80.0	1.0345E+00	1.0034E+00
20.0	1.0004E+00	1.0007E+00	82.0	9.7907E-01	1.0049E+00
22.0	9.9401E-01	1.0002E+00	84.0	9.7985E-01	1.0034E+00
24.0	1.0015E+00	9.9992E-01	86.0	1.0417E+00	1.0058E+00
26.0	1.0052E+00	1.0004E+00	88.0	9.4272E-01	1.0057E+00
28.0	9.9581E-01	1.0005E+00	90.0	1.0270E+00	1.0054E+00
30.0	9.9851E-01	1.0000E+00	92.0	1.0032E+00	1.0087E+00
32.0	1.0073E+00	1.0003E+00	94.0	9.4211E-01	1.0067E+00
34.0	1.0005E+00	1.0007E+00	96.0	1.0692E+00	1.0099E+00
36.0	9.9119E-01	1.0003E+00	98.0	9.2221E-01	1.0108E+00
38.0	1.0041E+00	1.0001E+00	100.0	1.0229E+00	1.0104E+00
40.0	1.0084E+00	1.0008E+00	102.0	1.0156E+00	1.0154E+00
42.0	9.9086E-01	1.0006E+00	104.0	9.0673E-01	1.0130E+00
44.0	1.0003E+00	1.0002E+00	106.0	1.1036E+00	1.0186E+00
46.0	1.0103E+00	1.0008E+00	108.0	8.7219E-01	1.0196E+00
48.0	9.9015E-01	1.0009E+00	110.0	1.0554E+00	1.0215E+00
50.0	9.9605E-01	1.0003E+00	112.0	9.8419E-01	1.0278E+00
52.0	1.0133E+00	1.0010E+00	114.0	8.9391E-01	1.0270E+00
54.0	9.8971E-01	1.0012E+00	116.0	1.1371E+00	1.0363E+00
56.0	9.9412E-01	1.0006E+00	118.0	7.7809E-01	1.0389E+00
58.0	1.0168E+00	1.0013E+00	120.0	1.1615E+00	1.0457E+00
60.0	9.9643E-01	1.0016E+00			

ANGLE IN DEGREES FROM BACKSCATTER DIRECTION

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