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A MONTE CARLO CALCULATION OF AIR-SCATTERED GAMMA RAYS

R. E. Lynch
J. W. Benoit
W. P. Johnson
C. D. Zerby

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A MONTE CARLO CALCULATION OF AIR-SCATTERED GAMMA RAYS

R. E. Lynch* W. P. Johnson*
J. W. Benoit* C. D. Zerby

DATE ISSUED

JAN 28 1958

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*Because volumes 2 through 5 of this report total approximately 1050 pages and they will be of limited interest, only an abbreviated distribution is being used. Volume 1, which summarizes and explains the data, will be sent to the entire Physics and Mathematics distribution with the note that upon request volumes 2 through 5 will be made available to those listed on the distribution of volume 1.

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INDEX TO THE PROBLEMS

Volume 2: FLUX DATA

Volume 4: DOSE RATE DATA

		d_o = 100 ft		d_o = 65 ft		d_o = 40 ft	
E_o (Mev)	A_o (deg)	Prob. No.	Pg. No.	Prob. No.	Pg. No.	Prob. No.	Pg. No.
12	1	100	2	200	88	300	174
	15	101	4	201	90	301	176
	30	102	6	202	92	302	178
	60	103	8	203	94	303	180
	90	104	10	204	96	304	182
	135	105	12	205	98	305	184
	180	106	14	206	100	306	186
7	1	107	16	207	102	307	188
	15	108	18	208	104	308	190
	30	109	20	209	106	309	192
	60	110	22	210	108	310	194
	90	111	24	211	110	311	196
	135	112	26	212	112	312	198
	180	113	28	213	114	313	200
4	1	114	30	214	116	314	202
	15	115	32	215	118	315	204
	30	116	34	216	120	316	206
	60	117	36	217	122	317	208
	90	118	38	218	124	318	210
	135	119	40	219	126	319	212
	180	120	42	220	128	320	214
2	1	121	44	221	130	321	216
	15	122	46	222	132	322	218
	30	123	48	223	134	323	220
	60	124	50	224	136	324	222
	90	125	52	225	138	325	224
	135	126	54	226	140	326	226
	180	127	56	227	142	327	228
1	1	128	58	228	144	328	230
	15	129	60	229	146	329	232
	30	130	62	230	148	330	234
	60	131	64	231	150	331	236
	90	132	66	232	152	332	238
	135	133	68	233	154	333	240
	180	134	70	234	156	334	242
0.6	1	135	72	235	158	335	244
	15	136	74	236	160	336	246
	30	137	76	237	162	337	248
	60	138	78	238	164	338	250
	90	139	80	239	166	339	252
	135	140	82	240	168	340	254
	180	141	84	241	170	341	256

Volume 3: FLUX DATA

Volume 5: DOSE RATE DATA

		d_o = 20 ft		d_o = 10 ft		d_o = 5 ft	
E_o (Mev)	A_o (deg)	Prob. No.	Pg. No.	Prob. No.	Pg. No.	Prob. No.	Pg. No.
12	1	400	260	500	346	600	432
	15	401	262	501	348	601	434
	30	402	264	502	350	602	436
	60	403	266	503	352	603	438
	90	404	268	504	354	604	440
	135	405	270	505	356	605	442
	180	406	272	506	358	606	444
7	1	407	274	507	360	607	446
	15	408	276	508	362	608	448
	30	409	278	509	364	609	450
	60	410	280	510	366	610	452
	90	411	282	511	368	611	454
	135	412	284	512	370	612	456
	180	413	286	513	372	613	458
4	1	414	288	514	374	614	460
	15	415	290	515	376	615	462
	30	416	292	516	378	616	464
	60	417	294	517	380	617	466
	90	418	296	518	382	618	468
	135	419	298	519	384	619	470
	180	420	300	520	386	620	472
2	1	421	302	521	388	621	474
	15	422	304	522	390	622	476
	30	423	306	523	392	623	478
	60	424	308	524	394	624	480
	90	425	310	525	396	625	482
	135	426	312	526	398	626	484
	180	427	314	527	400	627	486
1	1	428	316	528	402	628	488
	15	429	318	529	404	629	490
	30	430	320	530	406	630	492
	60	431	322	531	408	631	494
	90	432	324	532	410	632	496
	135	433	326	533	412	633	498
	180	434	328	534	414	634	500
0.6	1	435	330	535	416	635	502
	15	436	332	536	418	636	504
	30	437	334	537	420	637	506
	60	438	336	538	422	638	508
	90	439	338	539	424	639	510
	135	440	340	540	426	640	512
	180	441	342	541	428	641	514

PREFACE

This calculation was performed by the Power Plant Laboratory at Wright Air Development Center. The problem was initiated at Oak Ridge National Laboratory (ORNL) during the one-month visit of Lt. R. E. Lynch of WADC. It was suggested by and designed from a theoretical point of view by C. D. Zerby of ORNL who also acted as advisor throughout the duration of the computation. The calculation was set up and coded for the Remington Rand 1103 computer, located at WADC, by Lt. Lynch, who obtained aid with the coding of a portion of the problem from Lt. L. W. Benoit. Lieutenants Lynch, Benoit, and W. P. Johnson, all of WADC, carried out the analysis of the completed calculation.

ABSTRACT

A calculation is presented of air-scattered gamma rays using the Monte Carlo method of computation. For simplicity, the problem was idealized to have a monoenergetic, monodirectional point source of gamma rays in an infinite body of air. The results of the calculation included the angular distributions, energy spectra, and tissue dose rates at source-detector separation distances of from 5 to 100 ft. A complete parameter survey was completed for source energies from 0.6 to 12 Mev and for beam angles with respect to the source-detector axis of from 0 to 180 deg. The report is divided into five volumes: Volume 1 gives a complete description of the mathematical procedure used in the calculation, while volumes 2 and 3 present tables of data representing the energy spectra and angular distributions obtained from the calculation. Volumes 4 and 5 present information similar to that in volumes 2 and 3, except that the data have been converted to tissue dose rates.

INTRODUCTION

A knowledge of the energy and angular distribution of gamma rays which escape from a source into the air is always of importance in the design of experiments involving radiation. In the past various attempts have been made to calculate, for specific point source--point detector distances, the flux resulting from air-scattered gamma rays. Because it has long been recognized that the total scattered flux at a point in air is in most cases largely made up of gamma rays that scatter only once before reaching the point, the flux resulting from gamma rays that have undergone multiple collisions always has been ignored. For accurate interpretation of radiation experiments performed in air, the contribution by all scattered gamma rays, including multiple scattered gamma rays, must be known. Therefore, the calculation reported here and in other volumes was undertaken.

For the calculation it was decided to postulate a monoenergetic point source. This source was thus quite general, and the results of calculations for different source energies and beam angles could be integrated to provide data for any specific source geometry. The source was assumed to be located in an infinite body of air and the angular distributions, energy spectra, and resulting tissue dose rates[1] at various source-detector separation distances were calculated.

The techniques available for determining the multiply scattered contribution are rather limited, particularly for the type of source chosen. The only practical technique available is the Monte Carlo method, which was chosen for this calculation. A complete description of the theory and the technique of the computation is given in volume 1 of this report.

The results of the computation are presented in volumes 2 through 5 of this report. In particular, the flux data are tabulated in volumes 2 and 3 and the dose-rate data are tabulated in volumes 4 and 5. At the

---

1. The conversion factors were obtained from TID-7004, Reactor Shielding Design Manual, T. Rockwell, editor, Office of Technical Service, Dept. of Commerce, Washington 25, D. C. (1956).

beginning of each of the volumes 2 through 5 is the same detailed Index to the Problems which indicates where all the results of the calculation can be located. It is to be noted that the page numbering is consecutive throughout volumes 2 and 3. Similarly, the numbering is consecutive throughout volumes 4 and 5. By using this scheme, the flux data appearing on a particular page in volume 2 correspond to the dose rate data appearing on the same page in volume 4. Volumes 3 and 5 have the same correspondence.

The geometry assumed for the calculations and the use of the data tables are discussed in the sections below. There is also a section on "cautions" which should be studied thoroughly before any attempt is made to use the data.

GEOMETRY

The gamma-ray source was assumed to be a monoenergetic point source from which a monodirectional line beam was emitted in the x,y plane as shown in Fig. 1. Three parameters characterized the source: the energy, E_o, of the photons leaving the point source; the distance, d_o, between the source and the detector; and the angle, A_o, between the beam and the source-detector axis (x axis). Six different values of E_o, six values of d_o, and seven values of A_o (Table 1) were used to give a total of 252 possible combinations. The source and detector were considered to be in an essentially infinite medium of dry air with a density of 0.00125 g/cm^3. (A method of transformation of the results to apply at other densities has been previously described.[2]) The air medium was approximated by assuming that it consisted of 23.5 wt % oxygen and 76.5 wt % nitrogen.

In order to determine the angular distribution of the flux received at the point detector, the space about the detector was divided into a number of solid angles with apexes at the detector (Fig. 2). A spherical coordinate system was used, with the polar angle θ measured from the positive x axis and the azimuthal angle ϕ measured from the positive y axis in the y,z plane. The solid angles were formed by dividing the 0 - π range of θ and the 0 - π range of ϕ into the intervals listed in Table 2.*

2. C. D. Zerby, Radiation Flux Transformation as a Function of Density of an Infinite Medium with Anisotropic Point Sources, ORNL-2100 (Oct, 1956).

* The flux is symmetric with respect to the x,y plane, since both the source beam and the detector lie in that plane. Therefore, only values of ϕ between 0 and π need be considered for angular distribution.

Table 1. Numerical Values of the Source Parameters Which Were Used in the Computation

d_o(ft)	A_o(deg)	E_o(Mev)
100	1	12
65	15	7
40	30	4
20	60	2
10	90	1
5	135	0.6
	180	

d_o = source-detector separation distance

A_o = angle between the beam of gamma rays and the source-detector axis

E_o = energy of the photons leaving the source.

Table 2. Polar Angle and the Azimuthal Angle Intervals at the Detector

θ, Polar Angle Intervals (deg)	ϕ, Azimuthal Angle Intervals (deg)
0 - 20	0 - 45
20 - 40	45 - 90
40 - 60	90 - 135
60 - 80	135 - 180
80 - 90	
90 - 100	
100 - 120	
120 - 140	
140 - 160	
160 - 180	

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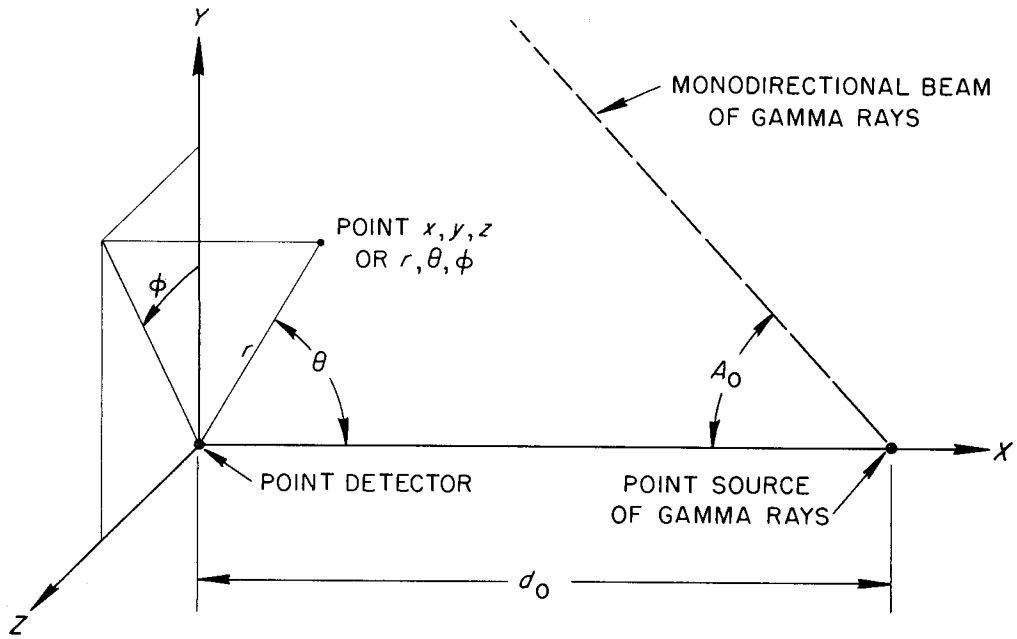

Fig. 1. Geometrical Relationship of Source and Detector.

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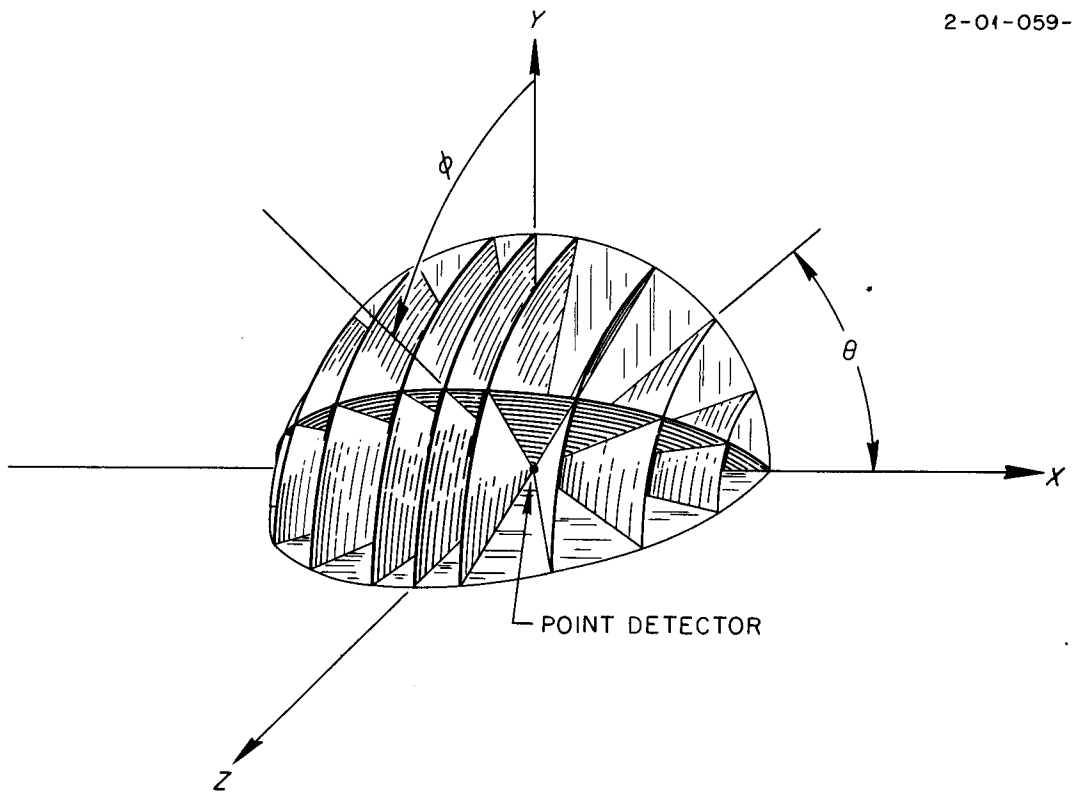


Fig. 2. The Spacial Grid System at the Detector.

Y.YY-YY THE MAXIMUM DISTANCE CUT-OFF IN MEAN FREE PATHS.

S.SS-SS THE PROBLEM NUMBER.

X.XX-XX THE CUT-OFF ENERGY IN MEV.

T.TT-TT SOURCE PHOTON ENERGY, E_0, IN MEV.

a.aa-aa THE NUMBER OF HISTORIES STOPPED DUE TO ENERGY CUT-OFF.

U.UU-UU SOURCE BEAM ANGLE, A_0, IN DEGREES.

β.ββ-ββ THE NUMBER OF HISTORIES STOPPED DUE TO DISTANCE CUT-OFF.

γ.γγ-γγ THE NUMBER OF HIGHER ORDER COLLISIONS (THIS DOES NOT INCLUDE THE NUMBER OF FIRST COLLISIONS).

δ.δδ-δδ THE MAXIMUM NUMBER OF HIGHER ORDER COLLISIONS ALLOWED PER HISTORY.

THE WORDS "AIR SCATTERING" OR "DOSE R PER H" WHICH APPEAR IN THE UPPER LEFT HAND CORNER OF EACH DATA SHEET IDENTIFIES THE DATA AS FLUX OR DOSE RATE DATA RESPECTIVELY.

W.WW-WW DENSITY OF AIR IN GM PER CC.

E_ε THE UPPER END POINT OF THE ε^{TH} ENERGY INTERVAL IN MEV.

A.AA-AA $(x'_{\varepsilon\theta 1})/\Delta\varepsilon_\varepsilon \; \Delta \cos\theta_\theta$. THE AVERAGE PROBABILITY OF ENTERING THE DETECTOR THROUGH THE ε^{TH} ENERGY INTERVAL AND THROUGH THE θ^{TH} POLAR ANGLE INTERVAL AFTER ONE COLLISION: PARTICLES PER MEV PER UNIT $\cos\theta$ PER SOURCE PHOTON.

$\Delta\varepsilon_\varepsilon$ $E_\varepsilon - E_{\varepsilon+1}$. THE WIDTH IN MEV OF THE ε^{TH} ENERGY INTERVAL.

C.CC-CC $\sum_\theta (x'_{\varepsilon\theta 1})/\Delta\varepsilon_\varepsilon$. THE AVERAGE PROBABILITY OF ENTERING THE DETECTOR THROUGH THE ε^{TH} ENERGY INTERVAL AFTER ONE COLLISION: PARTICLES PER MEV PER SOURCE PHOTON.

$x'_{\varepsilon\theta 1}$ THE PROBABILITY THAT A GAMMA RAY ENTERS THE DETECTOR THROUGH THE ε^{TH} ENERGY INTERVAL, THE θ^{TH} POLAR ANGLE INTERVAL, AFTER SUFFERING ONLY ONE COLLISION: PHOTONS PER SOURCE PHOTON.

$\Delta \cos\theta_\theta$ $\cos\theta_{\theta-1} - \cos\theta_\theta$. THE DIFFERENCE OF THE COSINES OF THE END POINTS OF THE θ^{TH} POLAR ANGLE INTERVAL.

F.FF-FF $(x_{\varepsilon\theta\phi})/\Delta\varepsilon_\varepsilon \; \Delta \cos\theta_\theta \; \Delta\phi_\phi$. THE AVERAGE PROBABILITY OF ENTERING THE DETECTOR THROUGH THE ε^{TH} ENERGY INTERVAL, THE θ^{TH} POLAR ANGLE INTERVAL, AND THE ϕ^{TH} AZIMUTHAL ANGLE INTERVAL: PARTICLES PER MEV PER STERADIAN PER SOURCE PHOTON.

J.JJ-JJ THE ESTIMATED STANDARD DEVIATION OF 1.11-11.

θ_θ THE UPPER END POINT OF THE θ^{TH} POLAR ANGLE INTERVAL IN DEGREES.

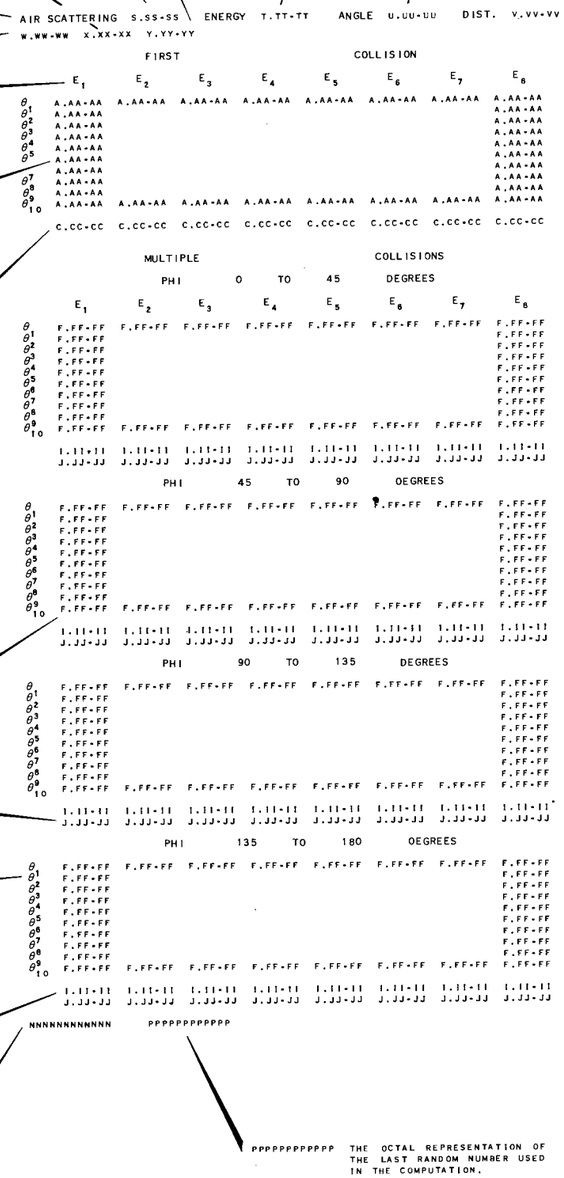
1.11-11 $\sum_\theta (x_{\varepsilon\theta\phi})/\Delta\varepsilon_\varepsilon \; \Delta\phi_\phi$ THE AVERAGE PROBABILITY OF ENTERING THE DETECTOR THROUGH THE ε^{TH} ENERGY INTERVAL AND THE ϕ^{TH} AZIMUTHAL ANGLE INTERVAL: PARTICLES PER MEV PER RADIAN PER SOURCE PHOTON.

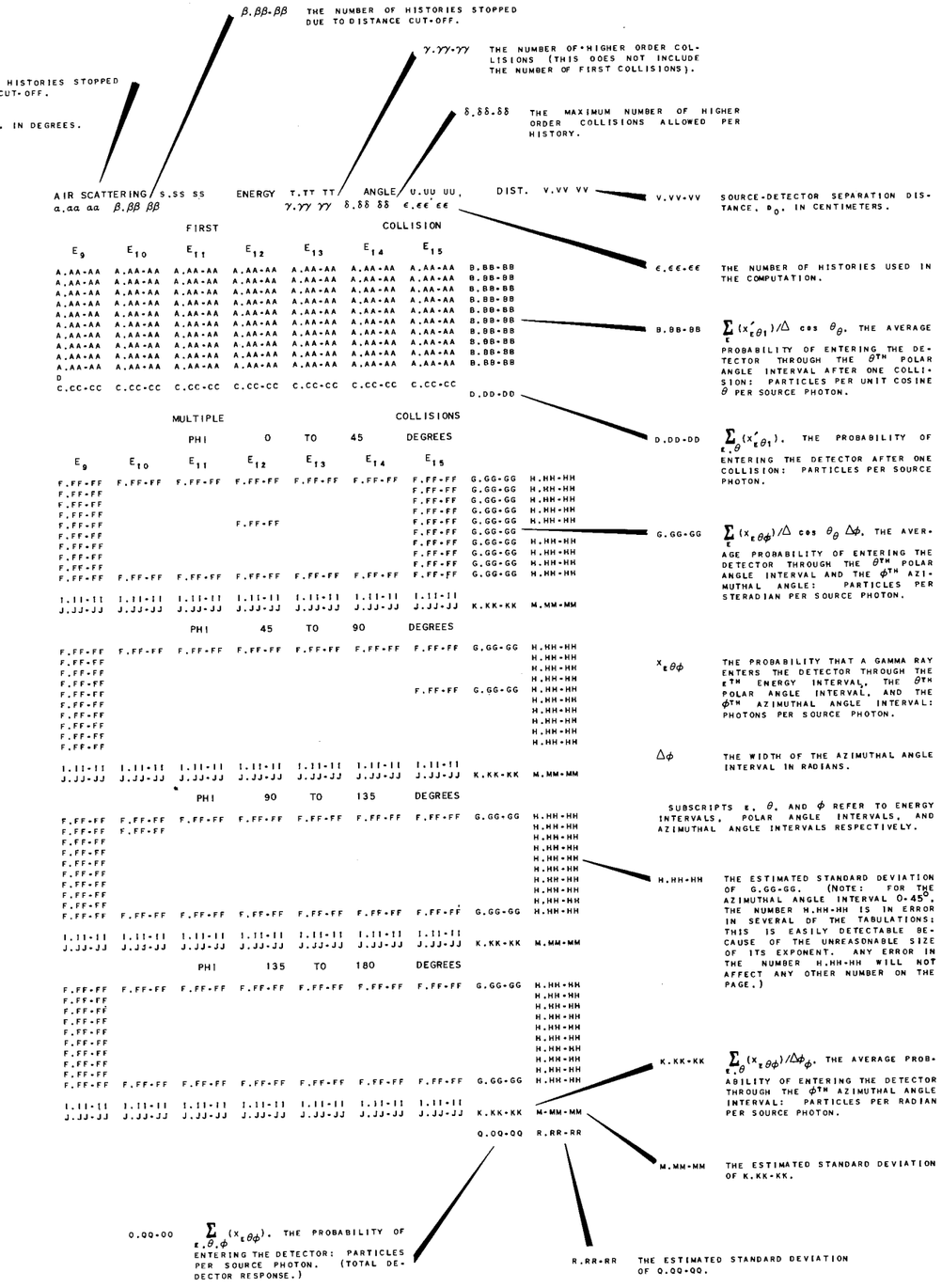
NNNNNNNNNNNN THE OCTAL REPRESENTATION OF THE FIRST RANDOM NUMBER USED IN THE COMPUTATION.

PPPPPPPPPPPP THE OCTAL REPRESENTATION OF THE LAST RANDOM NUMBER USED IN THE COMPUTATION.

ERRATUM:

FOR SOURCE PHOTON ENERGY E_0 = 2.00 MEV, VALUES SHOWN UNDER COLUMN HEADED E = 1.40 MUST BE MULTIPLIED BY 4/3, AND VALUES UNDER COLUMN HEADED E = 1.00 MUST BE MULTIPLIED BY 3/4. ALL OTHER VALUES MAY BE READ DIRECTLY FROM COLUMNS.





V.VV-VV SOURCE-DETECTOR SEPARATION DISTANCE, D_0, IN CENTIMETERS.

ε.εε-εε THE NUMBER OF HISTORIES USED IN THE COMPUTATION.

B.BB-BB $\sum_\varepsilon (x'_{\varepsilon\theta 1})/\Delta \cos\theta_\theta$. THE AVERAGE PROBABILITY OF ENTERING THE DETECTOR THROUGH THE θ^{TH} POLAR ANGLE INTERVAL AFTER ONE COLLISION: PARTICLES PER UNIT COSINE θ PER SOURCE PHOTON.

D.DD-DD $\sum_{\varepsilon,\theta} (x'_{\varepsilon\theta 1})$. THE PROBABILITY OF ENTERING THE DETECTOR AFTER ONE COLLISION: PARTICLES PER SOURCE PHOTON.

G.GG-GG $\sum_\varepsilon (x_{\varepsilon\theta\phi})/\Delta \cos\theta_\theta \; \Delta\phi$. THE AVERAGE PROBABILITY OF ENTERING THE DETECTOR THROUGH THE θ^{TH} POLAR ANGLE INTERVAL AND THE ϕ^{TH} AZIMUTHAL ANGLE: PARTICLES PER STERADIAN PER SOURCE PHOTON.

$x_{\varepsilon\theta\phi}$ THE PROBABILITY THAT A GAMMA RAY ENTERS THE DETECTOR THROUGH THE ε^{TH} ENERGY INTERVAL, THE θ^{TH} POLAR ANGLE INTERVAL, AND THE ϕ^{TH} AZIMUTHAL ANGLE INTERVAL: PHOTONS PER SOURCE PHOTON.

$\Delta\phi$ THE WIDTH OF THE AZIMUTHAL ANGLE INTERVAL IN RADIANS.

SUBSCRIPTS ε, θ, AND ϕ REFER TO ENERGY INTERVALS, POLAR ANGLE INTERVALS, AND AZIMUTHAL ANGLE INTERVALS RESPECTIVELY.

H.HH-HH THE ESTIMATED STANDARD DEVIATION OF G.GG-GG. (NOTE: FOR THE AZIMUTHAL ANGLE INTERVAL 0-45°, THE NUMBER H.HH-HH IS IN ERROR IN SEVERAL OF THE TABULATIONS: THIS IS EASILY DETECTABLE BECAUSE OF THE UNREASONABLE SIZE OF ITS EXPONENT. ANY ERROR IN THE NUMBER H.HH-HH WILL NOT AFFECT ANY OTHER NUMBER ON THE PAGE.)

K.KK-KK $\sum_{\varepsilon,\theta} (x_{\varepsilon\theta\phi})/\Delta\phi_\phi$. THE AVERAGE PROBABILITY OF ENTERING THE DETECTOR THROUGH THE ϕ^{TH} AZIMUTHAL ANGLE INTERVAL: PARTICLES PER RADIAN PER SOURCE PHOTON.

M.MM-MM THE ESTIMATED STANDARD DEVIATION OF K.KK-KK.

Q.QQ-QQ $\sum_{\varepsilon,\theta,\phi} (x_{\varepsilon\theta\phi})$. THE PROBABILITY OF ENTERING THE DETECTOR: PARTICLES PER SOURCE PHOTON. (TOTAL DETECTOR RESPONSE.)

R.RR-RR THE ESTIMATED STANDARD DEVIATION OF Q.QQ-QQ.

Fig. 3. Key to Tables of Data.

In order to determine the energy spectrum at the detector, energy intervals were formed by dividing the energy range between the source energy and the cutoff energy (0.01 Mev) into 15 approximately equal logarithmic steps.

DESCRIPTION OF THE DATA TABLES

The data sheets printed out by the 1103 computer have been photographed directly to make up volumes 2 through 5. Because of the limitation of the machine only a minimum of labeling was possible on each sheet. In order to understand the data tables reference must therefore be made to Fig. 3, which is, in effect, a "dummy" or code table, using letters rather than numbers and having appropriate callout explanations. Since the flux tables and the dose rate tables are identical in their arrangement, the same code table may be used for both sets of data. The flux tables are identified by the words "Air Scattering" in the upper left hand corner, while the dose rate tables are identified by the words "Dose R per H."

Because of the large amount of data tabulated for each computation, two pages are required to give the flux (or dose rate) data for a given set of source parameters. These two pages are bound facing each other. Across the top of each page is a heading which identifies the data appearing on that page; that is, the source parameters are listed. For each set of parameters the results are tabulated in five matrices, each extending across the two facing pages and each representing a different azimuthal angle interval $\Delta \phi$. Each row in a matrix represents the flux (dose rate) arriving at the detector through one of the polar angle intervals $\Delta \theta$. Each column in a matrix represents the flux (dose rate) arriving at the detector within one of the 15 spectral energy intervals between the source energy and the cutoff energy.

The first of the five matrices on each data table shows only the flux (dose rate) at the detector which has resulted from <u>singly</u> scattered gamma rays. It was necessary to determine these values in a separate Monte Carlo computation since the calculation of the multiply scattered flux does not distinguish between single and multiple scatters. Therefore, before the contribution by multiply scattered gamma rays can be determined, the contribution by singly scattered gamma rays must first be subtracted. This

would occur only in the case of one $\Delta\phi$ interval, the 0- to 45-deg interval, since all singly scattered gamma rays would reach the detector only if they remain within the x,y plane; that is, they would enter the detector at $\phi = 0$. The results for this interval are given in the second matrix on each data table. The values given in the third, fourth, and fifth matrices represent the fluxes (dose rates) resulting entirely from multiple scatterings.

All of the definitions on Fig. 3 are given in terms of probabilities with units of "particles per source photon." These probabilities are simply the fractions of the total number of particles leaving the source which arrives at the detector. Since they were computed by assuming that the photons reach the point detector by passing through a sphere with unit cross-sectional area around the point, the addition of the words "per cm^2 per second" to each of the units of the definitions changes the quantities defined (probabilities) to fluxes; this will define the numbers which appear in volumes 2 and 3. If the numerical values of the fluxes are multiplied by the appropriate flux-dose conversion factors,[1] the fluxes become tissue dose rates. The results of this conversion are given in volumes 4 and 5. Hence, if the units are changed from "particles per source photon" to "dose in roentgens per hour per source photon per second" in the definitions on Fig. 3, the quantities defined (probabilities) are changed to dose rates; this will define the numbers which appear in volumes 4 and 5.

All the data are written either in the form z.zz-yy or z.zz yy, which mean z.zz x 10^{-yy} and z.zz x 10^{yy}, respectively.

CAUTIONS

The following points should be emphasized:

1. The effects of first collisions are recorded in two different places on the tables. They are listed separately in the first matrix and are included with the multiple scattering data in the second matrix.
2. The fluxes (dose rates) which appear in the first matrix (first-collision data) are normalized differently from the fluxes (dose rates) which appear in the other matrices (multiple collision data). These normalizations are described on Fig. 3.

3. Because of the normalizations the sum of any row of data is not equal to the number at the end of the row; similarly, the sum of any column of data is not equal to the number below the column. Figure 3 gives the exact definition of these numbers.
4. The data entries are statistical estimates of the flux (dose rate); hence, these estimates will differ from the true values of the flux (dose rate). In fact, some of the differences will be considerable. The best method for using the data is by plotting it.* A comparison of neighboring entries will greatly aid in obtaining a good estimate of the variation of the flux and of particular values of the flux.
5. The standard deviations which are given on the data sheets are estimates of the standard deviation of the mean. That is:

$$(\sigma)^2 = \frac{\sum_{i=1}^{N} (x_i)^2 - \frac{1}{N}\left(\sum_{i=1}^{N} x_i\right)^2}{N^2}$$

where σ is the standard deviation, x_i is the estimation of x obtained from the ith history, and N is the number of histories.
6. Since the calculation has been completed it has been discovered that, for source energies of 2 Mev, the values shown under columns headed E = 1.40 and E = 1.00 are incorrect. They can be corrected by multiplying those under E = 1.40 by 4/3 and those under E = 1.00 by 3/4.

*In order to facilitate the plotting of these data, special graph paper is being prepared at ORNL.

d_o, Source-Detector Separation Distance = 20 ft

AIR SCATTERING 4.00 02 ENERGY 1.20 01 ANGLE 1.00 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.97-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	1.63-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	5.94-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	2.27-06	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	3.79-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	8.36-07
	9.85-08	0.	1.03-07	0.	0.	0.	3.94-07	1.16-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	1.04-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	3.78-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	1.44-06	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.86-19
1.60 02	0.	0.	0.	0.	0.	0.	5.58-14	2.41-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	5.33-07
	6.27-08	0.	6.56-08	0.	0.	0.	2.51-07	7.40-08
	2.33-08	0.	6.56-08	0.	0.	0.	2.51-07	4.42-08

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.29-15
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.24-12
1.80 02	0.	0.	0.	0.	0.	0.	2.54-12	5.21-11
	0.	0.	0.	0.	0.	0.	1.53-13	3.35-12
	0.	0.	0.	0.	0.	0.	1.51-13	2.86-12

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	6.20-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.06-13
1.40 02	0.	0.	0.	0.	0.	0.	7.68-13	4.41-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.05-11
1.80 02	0.	0.	0.	0.	0.	8.77-19	3.48-13	1.43-11
	0.	0.	0.	0.	0.	5.29-20	2.25-13	9.23-12
	0.	0.	0.	0.	0.	5.29-20	2.05-13	7.07-12

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	5.50-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.44-11
1.60 02	0.	0.	0.	0.	0.	0.	1.22-15	9.58-12
1.80 02	0.	0.	0.	0.	0.	0.	4.61-13	8.69-12
	0.	0.	0.	0.	0.	0.	2.80-14	7.82-12
	0.	0.	0.	0.	0.	0.	2.79-14	4.93-12

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AIR SCATTERING 4.00 02 ENERGY 1.20 01 ANGLE 1.00 DIST. 6.10 02
2.00 01 1.77 03 0. 0. 4.56 04 5.00 01 1.80 03

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	0.	0.	0.	0.	0.	0.	8.16-06	
0.	0.	0.	0.	0.	0.	0.	1.04-06	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	5.90-07	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	5.69-08	
0.	0.	0.	0.	0.	0.	0.	1.25-07	
0.	0.	0.	0.	0.	0.	0.	7.93-07	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	1.28-09	4.83-12	1.79-11	2.71-11	1.04-12	3.85-22	5.20-06	1.93-06
0.	3.26-11	4.95-11	9.26-11	5.01-11	4.98-14	3.43-23	6.61-07	6.61-07
0.	9.50-11	3.08-11	4.28-11	1.28-10	8.64-12	2.48-21	9.84-12	3.36-12
0.	2.25-11	2.86-11	1.15-11	4.12-11	6.18-13	3.83-24	3.28-12	9.06-13
2.41-14	1.12-10	1.89-11	8.18-11	3.54-11	5.55-13	7.77-25	9.90-12	6.05-12
2.51-12	1.44-10	2.54-10	1.25-10	8.73-11	3.67-12	3.56-25	3.76-07	3.75-07
7.51-11	1.23-10	1.94-10	4.42-10	1.79-10	8.49-13	3.66-24	3.44-11	1.09-11
1.78-10	3.73-11	8.63-11	1.99-10	1.32-11	7.11-15	1.53-24	2.64-11	1.24-11
4.06-10	7.82-11	1.56-10	2.11-10	2.08-11	7.05-13	2.94-24	3.63-08	3.62-08
3.00-08	3.05-11	4.06-10	2.33-10	2.42-11	7.27-15	2.55-22	8.26-08	3.55-08
1.95-09	2.26-10	2.12-10	3.16-10	1.46-10	3.71-12	7.08-22		
1.67-09	8.73-11	6.39-11	1.24-10	5.63-11	2.71-12	4.72-22	5.05-07	1.76-07

PHI 45 TO 90 DEGREES

0.	2.05-10	1.09-13	2.51-12	1.02-11	1.05-14	2.72-22	1.25-11	1.22-11
0.	3.21-11	8.91-12	3.14-11	1.21-11	4.53-12	2.67-23	3.22-12	1.25-12
0.	4.22-11	4.60-11	8.90-11	2.02-11	1.25-12	3.40-21	6.64-12	2.40-12
2.70-12	3.90-11	5.85-11	4.76-11	6.48-11	4.51-14	1.53-18	6.81-12	2.28-12
7.12-12	7.43-11	4.75-11	1.37-10	1.01-11	1.00-12	2.51-22	1.03-11	3.19-12
1.36-12	2.19-11	7.10-11	2.54-11	1.57-11	2.64-15	1.89-25	4.84-12	2.12-12
5.69-11	9.81-11	3.82-11	1.11-10	4.17-11	2.23-12	6.01-26	1.57-11	5.46-12
1.54-10	7.18-11	1.60-10	1.49-10	2.40-11	2.71-13	5.15-24	2.76-11	9.49-12
9.78-11	4.59-11	5.96-10	1.31-10	4.82-11	5.73-14	1.30-24	3.71-11	1.34-11
1.32-09	3.65-11	1.64-10	2.52-10	9.89-12	1.37-13	3.93-23	1.41-10	4.58-11
1.58-10	1.20-10	2.22-10	1.84-10	6.27-11	2.13-12	5.02-19		
4.39-11	2.76-11	6.86-11	3.73-11	2.20-11	1.04-12	5.01-19	3.54-11	5.55-12

PHI 90 TO 135 DEGREES

0.	0.	1.07-12	2.71-12	4.63-12	3.90-15	2.06-22	1.73-13	1.11-13
0.	1.40-09	1.39-11	2.80-11	2.60-11	1.69-13	2.23-21	8.54-11	8.21-11
0.	8.49-12	9.20-12	2.29-11	1.19-11	1.91-13	5.37-25	1.57-12	4.26-13
1.21-12	2.36-11	1.87-10	4.97-11	8.81-12	4.79-15	1.79-23	9.58-12	5.75-12
2.36-13	2.80-11	4.41-11	3.15-11	1.32-11	4.22-15	9.58-20	4.24-12	1.92-12
1.03-11	3.63-11	7.06-12	8.56-11	1.27-10	5.84-15	2.18-21	8.25-12	2.80-12
8.63-10	5.63-11	9.47-11	7.66-11	9.81-12	3.33-14	9.72-23	8.65-11	7.61-11
1.39-09	5.79-11	1.87-10	3.44-11	6.50-11	3.79-13	6.59-21	1.38-10	8.11-11
2.05-10	7.36-10	2.30-10	1.74-09	2.33-11	1.45-15	1.80-20	1.19-10	5.70-11
3.24-10	1.42-10	6.48-11	2.17-10	3.81-11	1.30-13	4.35-22	4.81-11	1.27-11
7.09-10	4.34-10	1.99-10	3.98-10	6.20-11	2.03-13	2.32-20		
3.65-10	2.67-10	6.45-11	2.81-10	2.85-11	1.16-13	1.83-20	1.09-10	4.18-11

PHI 135 TO 180 DEGREES

0.	1.48-11	1.14-11	1.36-11	1.12-13	1.32-12	1.58-24	1.63-12	9.94-13
0.	1.03-10	2.82-11	1.95-11	3.92-12	6.89-15	1.42-23	7.73-12	4.99-12
1.64-11	3.68-11	2.53-11	1.59-11	1.28-11	8.16-14	1.61-24	5.15-12	2.52-12
6.55-11	8.97-11	3.18-11	3.81-11	9.95-12	1.97-14	6.00-25	1.35-11	6.90-12
1.52-10	1.67-11	1.28-11	2.77-10	2.26-11	6.36-16	2.48-26	2.21-11	1.50-11
8.17-12	1.24-09	3.58-11	1.56-10	2.05-11	6.53-15	8.95-25	8.03-11	6.93-11
1.92-11	9.62-11	5.32-11	4.39-11	9.43-12	2.50-14	1.49-23	1.14-11	3.50-12
1.32-10	6.11-11	1.71-10	6.22-11	1.38-09	8.03-15	7.69-22	4.60-11	2.18-11
1.24-10	5.58-11	6.70-11	8.78-11	2.64-11	7.78-15	2.32-23	2.09-11	5.24-12
5.29-10	3.96-10	2.95-10	5.07-11	1.24-11	1.86-15	1.28-25	8.48-11	2.65-11
1.48-10	3.57-10	1.23-10	1.45-10	3.90-10	1.22-13	2.17-22		
3.87-11	2.04-10	2.92-11	5.16-11	3.66-10	8.10-14	1.99-22	4.97-11	1.42-11
							7.93-07	2.76-07

AIR SCATTERING 4.01 02 ENERGY 1.20 01 ANGLE 1.50 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	3.81-08	3.81-08	2.78-08	0.	0.	0.	0.
4.00 01	0.	0.	0.	9.72-09	2.19-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	1.87-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	1.37-08	0.
9.00 01	0.	0.	0.	0.	0.	0.	1.04-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.78-08
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.40-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.89-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.32-08
1.80 02	0.	0.	0.	0.	0.	0.	0.	8.84-09
	0.	2.30-09	2.30-09	3.36-09	3.80-09	4.99-09	6.27-09	1.90-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	2.43-08	2.43-08	1.77-08	1.00-08	0.	0.	0.
4.00 01	0.	0.	0.	6.19-09	1.39-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	1.19-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	8.71-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	6.61-09	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.77-08
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.33-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.20-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.82-08
1.80 02	0.	0.	0.	0.	0.	0.	2.71-12	5.86-09
	0.	1.46-09	1.46-09	2.14-09	3.03-09	3.17-09	3.99-09	1.91-08
	0.	5.17-10	6.54-10	1.07-09	1.52-09	1.83-09	2.32-09	7.68-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	8.61-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.83-12
1.80 02	0.	0.	0.	0.	0.	0.	4.15-11	1.13-10
	0.	0.	0.	0.	0.	0.	2.50-12	7.38-12
	0.	0.	0.	0.	0.	0.	2.39-12	5.91-12

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.44-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.13-12
1.80 02	0.	0.	0.	0.	0.	0.	1.54-14	2.09-09
	0.	0.	0.	0.	0.	0.	9.29-16	1.27-10
	0.	0.	0.	0.	0.	0.	9.28-16	1.26-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	6.21-14
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.35-14
1.60 02	0.	0.	0.	0.	0.	0.	4.75-14	2.48-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	4.42-12
	0.	0.	0.	0.	0.	0.	8.25-15	4.60-12
	0.	0.	0.	0.	0.	0.	8.25-15	4.29-12

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AIR SCATTERING 4.01 02 ENERGY 1.20 01 ANGLE 1.50 01 DIST. 6.10 02
2.00 01 1.77 03 0. 0. 4.52 04 5.00 01 1.80 03

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	0.	0.	0.	0.	0.	0.	1.90-07	
0.	0.	0.	0.	0.	0.	0.	2.40-08	
0.	0.	0.	0.	0.	0.	0.	8.25-09	
0.	0.	0.	0.	0.	0.	0.	3.56-09	
0.	0.	0.	0.	0.	0.	0.	2.70-09	
0.	0.	0.	0.	0.	0.	0.	4.17-09	
0.	0.	0.	0.	0.	0.	0.	2.09-09	
0.	0.	0.	0.	0.	0.	0.	2.84-09	
0.	0.	0.	0.	0.	0.	0.	3.48-09	
0.	0.	0.	0.	0.	0.	0.	1.33-09	
0.	0.	0.	0.	0.	0.	0.		
							2.23-08	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	1.39-11	2.63-12	1.90-11	1.07-12	8.51-16	1.31-20	1.27-07	3.33-08
0.	4.79-11	1.31-10	8.05-11	5.96-12	3.05-14	3.17-29	1.53-08	6.81-09
0.	9.38-11	1.16-10	1.55-11	4.12-12	3.12-14	3.10-25	5.26-09	3.03-09
1.78-12	1.62-10	1.38-11	3.90-11	3.00-11	7.44-15	5.17-20	2.28-09	1.60-09
7.61-12	2.17-11	4.08-11	1.36-11	2.25-11	2.00-13	1.11-24	1.72-09	1.72-09
9.28-11	4.84-11	5.98-11	3.20-12	2.78-12	2.07-13	5.66-21	2.67-09	1.89-09
1.50-10	2.62-11	3.10-11	3.41-10	6.35-12	2.67-14	2.99-21	3.51-09	2.29-09
2.47-10	2.49-10	8.42-11	2.47-11	2.22-11	2.85-13	8.11-23	1.85-09	6.78-10
9.74-10	3.51-10	9.17-11	8.23-11	1.97-11	1.43-13	3.28-23	4.35-09	2.06-09
1.38-09	1.83-10	1.62-10	1.17-10	1.99-11	4.29-12	7.39-26	1.02-09	9.82-11
3.85-10	2.66-10	1.34-10	1.74-10	2.90-11	4.55-13	1.96-20		
8.27-11	6.95-11	2.56-11	7.47-11	9.48-12	2.74-13	1.69-20	1.57-08	2.77-09

PHI 45 TO 90 DEGREES

0.	1.70-11	1.90-12	8.21-12	1.72-12	2.29-14	1.90-23	1.31-12	7.30-13
0.	8.15-11	2.68-12	6.52-12	1.52-11	1.48-14	3.97-25	4.17-12	2.22-12
0.	5.30-10	1.30-11	1.14-11	1.76-12	7.64-16	5.75-25	3.26-11	3.01-11
6.32-11	3.21-10	1.98-10	2.18-10	3.48-12	3.41-13	6.47-21	3.74-11	1.71-11
1.47-12	9.55-11	1.87-10	4.74-11	1.30-11	8.11-14	3.55-19	1.39-11	6.37-12
1.25-10	7.52-11	4.02-11	1.33-10	1.65-11	2.35-13	9.83-25	2.07-11	1.14-11
1.62-10	5.94-11	2.83-11	8.42-11	1.18-11	1.74-13	2.49-20	2.13-11	1.14-11
2.66-10	8.92-11	7.90-11	2.31-11	2.17-11	1.29-13	7.93-24	3.32-11	1.09-11
2.85-10	6.24-11	9.15-11	1.12-10	5.44-11	5.59-14	2.32-25	5.45-11	2.62-11
7.14-10	3.00-10	2.11-10	1.53-10	6.50-12	2.46-13	2.02-21	1.21-10	4.31-11
2.94-10	3.59-10	1.66-10	1.69-10	2.89-11	2.86-13	7.21-20		
8.57-11	1.65-10	5.82-11	5.35-11	9.23-12	1.24-13	6.62-20	6.02-11	1.57-11

PHI 90 TO 135 DEGREES

0.	3.96-12	1.70-11	2.97-12	4.87-12	1.87-15	4.72-26	9.93-13	5.53-13
0.	2.68-11	4.07-12	5.16-12	1.23-11	1.49-13	6.63-25	2.06-12	1.19-12
0.	3.40-10	1.26-10	6.49-11	8.79-12	8.72-14	2.12-25	2.66-11	1.61-11
1.31-11	7.32-11	3.97-11	3.43-11	3.14-11	1.51-12	9.54-21	8.31-12	2.72-12
0.	1.05-10	1.04-10	1.06-10	2.64-12	4.56-14	3.70-22	1.26-11	8.16-12
8.77-11	1.16-09	6.32-11	2.06-11	1.37-12	3.04-15	1.53-20	7.87-11	6.42-11
1.51-10	7.27-11	3.25-11	2.94-11	4.29-12	1.47-14	3.03-22	1.99-11	1.35-11
1.32-10	3.59-11	6.15-11	3.40-11	2.31-12	5.86-15	3.36-22	1.73-11	8.65-12
1.64-10	3.03-11	6.07-11	4.42-10	7.52-11	3.84-14	5.29-26	3.08-11	1.24-11
5.23-10	1.02-10	3.56-10	1.69-10	7.75-12	8.90-15	4.63-27	3.83-10	3.14-10
1.61-10	3.84-10	1.36-10	1.57-10	3.13-11	5.66-13	6.03-21		
8.01-11	1.99-10	3.35-11	6.72-11	1.31-11	4.75-13	3.52-21	6.56-11	2.32-11

PHI 135 TO 180 DEGREES

0.	1.45-11	3.83-11	2.08-11	1.56-11	1.47-15	1.30-24	2.98-12	1.34-12
0.	4.84-11	1.87-11	9.13-12	7.98-12	2.61-14	6.25-24	3.73-12	1.57-12
0.	7.92-11	2.98-11	6.28-11	1.79-11	2.22-15	3.12-25	7.60-12	3.34-12
3.79-10	1.90-10	9.44-11	8.89-11	3.10-11	2.38-14	2.04-21	5.13-11	3.50-11
1.36-11	1.05-10	7.70-11	5.38-11	5.74-11	4.50-15	1.77-22	1.25-11	4.75-12
3.11-11	1.50-10	4.38-11	3.10-12	6.40-12	1.06-14	1.85-25	1.35-11	7.85-12
8.70-12	8.21-10	2.69-11	4.68-11	7.27-12	3.23-13	3.77-19	5.23-11	4.63-11
1.99-11	2.28-11	1.07-10	1.80-10	9.02-12	3.12-13	3.09-24	9.53-12	4.66-12
1.81-10	3.25-11	5.06-11	6.78-11	2.05-11	3.12-15	2.86-23	2.57-11	9.14-12
4.85-10	5.47-11	6.52-11	2.29-10	4.19-11	4.53-10	2.22-21	5.61-11	2.61-11
2.00-10	4.19-10	1.15-10	1.23-10	3.91-11	2.05-13	1.24-19		
1.26-10	2.56-10	3.05-11	3.05-11	1.34-11	1.02-13	1.23-19	5.16-11	1.94-11
							2.49-08	4.36-09

AIR SCATTERING 4.02 02 ENERGY 1.20 01 ANGLE 3.00 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	2.58-08	2.25-08	0.	0.	0.
4.00 01	0.	0.	0.	0.	3.79-09	1.05-08	0.	0.
6.00 01	0.	0.	0.	0.	0.	1.57-09	9.36-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	4.48-09	4.15-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	6.44-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	9.59-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	7.18-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	7.87-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	3.22-09
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	1.56-09	2.01-09	2.24-09	3.95-09	9.14-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	1.64-08	1.43-08	0.	0.	0.
4.00 01	0.	0.	0.	0.	2.41-09	6.67-09	0.	0.
6.00 01	0.	0.	0.	0.	0.	1.00-09	5.96-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	2.85-09	2.64-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.10-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	6.11-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.57-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	5.01-09
1.60 02	0.	0.	0.	0.	0.	0.	4.96-15	2.12-09
1.80 02	0.	0.	0.	0.	0.	0.	0.	3.10-12
	0.	0.	0.	9.91-10	1.28-09	1.43-09	2.52-09	5.83-09
	0.	0.	0.	3.74-10	5.23-10	6.37-10	9.58-10	1.08-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.76-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	8.32-13
1.60 02	0.	0.	0.	0.	0.	0.	6.27-16	4.08-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.07-12
	0.	0.	0.	0.	0.	0.	1.09-16	1.05-12
	0.	0.	0.	0.	0.	0.	1.09-16	5.01-13

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.20-15
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.63-11
1.80 02	0.	0.	0.	0.	0.	0.	8.99-13	2.14-12
	0.	0.	0.	0.	0.	0.	5.42-14	2.97-12
	0.	0.	0.	0.	0.	0.	5.42-14	2.20-12

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.24-12
	0.	0.	0.	0.	0.	0.	0.	7.45-14
	0.	0.	0.	0.	0.	0.	0.	4.80-14

174632407145 313673267521

AIR SCATTERING 4.02 02 ENERGY 1.20 01 ANGLE 3.00 01 DIST. 6.10 02
2.00 01 1.77 03 0. 0. 4.54 04 5.00 01 1.80 03

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02	
0.	0.	0.	0.	0.	0.	0.	4.04-08
0.	0.	0.	0.	0.	0.	0.	7.07-09
0.	0.	0.	0.	0.	0.	0.	3.13-09
0.	0.	0.	0.	0.	0.	0.	1.79-09
0.	0.	0.	0.	0.	0.	0.	9.66-10
0.	0.	0.	0.	0.	0.	0.	1.44-09
0.	0.	0.	0.	0.	0.	0.	1.08-09
0.	0.	0.	0.	0.	0.	0.	1.18-09
0.	0.	0.	0.	0.	0.	0.	4.83-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	6.25-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	9.22-11	2.08-11	4.66-11	2.99-12	4.87-14	0.	2.58-08	7.74-09
0.	1.12-10	1.34-11	2.33-11	9.62-12	1.38-15	6.35-27	4.51-09	1.84-09
9.04-13	3.58-10	1.95-10	6.04-11	3.87-12	0.27-15	5.56-19	2.02-09	8.92-10
2.58-09	1.52-10	1.73-10	1.17-10	3.75-12	2.60-14	9.08-22	1.39-09	6.47-10
1.36-10	2.34-11	6.71-11	2.85-11	1.48-11	3.39-14	8.63-25	6.32-10	4.35-10
9.24-11	2.57-11	9.18-11	9.12-11	3.08-11	7.85-15	1.54-24	9.32-10	4.60-10
2.35-10	5.56-11	7.25-11	6.23-11	1.16-11	1.26-13	2.15-20	7.15-10	2.14-10
7.60-10	9.33-11	1.04-10	2.90-10	1.93-11	8.91-12	6.24-17	8.37-10	1.32-10
9.67-10	1.36-10	1.09-10	4.91-11	1.36-11	7.67-13	5.38-24	4.19-10	4.46-11
2.90-10	5.50-11	1.24-10	5.24-11	2.04-12	3.67-14	8.08-27	3.56-11	1.78-11
1.35-09	2.48-10	2.17-10	1.89-10	2.34-11	2.57-12	1.68-17		
8.37-10	8.18-11	5.51-11	6.96-11	7.19-12	2.35-12	1.66-17	4.13-09	6.58-10

PHI 45 TO 90 DEGREES

0.	3.23-12	1.23-11	2.76-11	5.87-12	1.70-14	1.57-29	1.39-12	6.72-13
0.	2.13-11	2.89-11	2.45-11	8.96-12	2.97-15	8.96-27	3.04-12	9.43-13
0.	1.01-10	6.49-11	6.73-10	1.67-11	1.80-13	6.46-24	2.48-11	1.49-11
5.52-11	4.16-11	2.59-11	2.57-10	1.01-10	1.50-12	5.56-24	1.61-11	5.41-12
1.74-10	1.78-10	4.79-11	1.52-11	9.76-11	5.42-12	1.75-23	3.00-11	1.53-11
8.11-11	1.65-11	5.46-10	7.44-11	3.44-11	4.02-12	3.15-22	3.03-11	1.71-11
3.16-10	3.01-10	4.52-10	4.82-11	6.58-11	1.04-12	3.06-23	6.50-11	3.15-11
5.71-10	1.59-10	1.35-10	2.66-10	1.43-11	4.84-15	3.26-24	7.25-11	3.53-11
1.18-10	8.89-11	8.26-11	2.16-10	4.12-12	9.49-12	3.53-25	2.49-11	5.85-12
1.19-10	5.00-11	3.97-11	6.02-11	1.64-11	3.24-14	1.95-23	1.70-11	7.82-12
3.45-10	2.37-10	3.35-10	4.12-10	8.91-11	4.17-12	7.34-23		
1.25-10	7.80-11	2.00-10	1.76-10	3.16-11	2.41-12	5.53-23	6.88-11	2.19-11

PHI 90 TO 135 DEGREES

0.	4.86-11	5.72-12	2.76-11	1.53-11	1.10-13	3.35-23	4.01-12	2.83-12
0.	9.36-10	1.36-11	6.97-11	5.21-12	3.39-14	2.32-21	5.84-11	5.10-11
0.	6.26-12	2.59-10	3.32-10	3.04-11	6.58-15	3.36-23	1.81-11	1.03-11
5.48-11	9.18-11	1.79-10	1.29-10	7.43-11	1.14-12	5.12-21	2.11-11	7.98-12
7.17-13	4.00-11	1.28-09	1.14-10	3.99-10	8.02-14	7.33-24	5.73-11	4.30-11
1.29-12	9.18-11	8.79-11	4.00-11	1.21-11	1.78-13	1.35-24	9.93-12	3.86-12
2.06-11	7.52-11	2.11-10	6.87-11	3.23-11	3.06-13	3.33-19	1.61-11	5.13-12
8.47-11	1.14-10	2.04-10	7.73-11	4.48-12	6.14-14	1.62-22	2.37-11	9.32-12
4.93-11	1.94-10	7.40-11	3.57-11	1.27-11	3.02-14	1.67-23	2.23-11	1.04-11
4.94-11	3.74-11	2.97-11	1.11-10	3.21-11	1.37-14	4.47-20	1.15-11	2.91-12
5.90-11	3.11-10	5.06-10	2.27-10	1.21-10	5.53-13	1.13-19		
2.42-11	1.53-10	2.19-10	8.90-11	6.79-11	3.47-13	1.09-19	4.99-11	1.32-11

PHI 135 TO 180 DEGREES

0.	2.40-10	1.68-12	1.16-11	9.16-12	1.61-13	4.65-22	1.49-11	7.01-12
0.	5.21-12	7.06-12	2.78-10	7.12-12	3.68-14	1.11-22	7.34-12	3.81-12
0.	4.20-11	1.28-11	3.10-10	1.09-10	5.77-14	1.48-21	1.21-11	5.87-12
0.	3.62-10	2.30-11	4.01-11	7.48-12	1.45-15	1.24-23	2.36-11	1.99-11
0.	5.02-13	8.75-12	2.46-10	3.16-12	1.57-14	1.07-25	6.30-12	3.64-12
1.48-12	2.17-11	5.95-11	8.54-11	6.34-10	6.59-15	5.24-26	1.51-11	9.73-12
1.69-13	3.79-11	2.84-11	1.63-10	2.69-11	4.12-14	1.10-20	7.62-12	3.16-12
1.09-12	1.85-10	7.25-11	2.97-11	1.09-11	2.82-13	4.28-23	1.47-11	8.08-12
1.55-10	5.39-10	1.05-09	3.86-11	5.06-11	9.46-14	2.62-26	8.59-11	5.67-11
5.61-11	3.22-11	4.36-11	1.02-10	1.45-11	2.11-14	7.29-18	1.14-11	3.98-12
3.09-11	3.06-10	2.38-10	2.76-10	1.65-10	1.42-13	4.44-19		
2.10-11	1.31-10	1.75-10	1.15-10	1.11-10	8.41-14	4.40-19	3.88-11	1.25-11
							6.73-09	1.04-09

AIR SCATTERING 4.03 02 ENERGY 1.20 01 ANGLE 6.00 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.9T-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	1.41-08	1.06-08	0.
4.00 01	0.	0.	0.	0.	0.	0.	7.18-09	0.
6.00 01	0.	0.	0.	0.	0.	0.	1.09-09	5.19-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	4.71-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.73-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.33-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.19-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	8.49-10	2.18-09	4.86-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	8.96-09	6.77-09	0.
4.00 01	0.	0.	0.	0.	0.	0.	4.57-09	0.
6.00 01	0.	0.	0.	0.	0.	0.	6.92-10	3.31-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.00-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.38-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.12-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.46-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.90-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.61-15
1.80 02	0.	0.	0.	0.	0.	0.	0.	5.80-13
	0.	0.	0.	0.	0.	5.40-10	1.39-09	3.12-09
	0.	0.	0.	0.	0.	2.20-10	4.03-10	4.49-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.98-16
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.82-15
1.80 02	0.	0.	0.	0.	0.	0.	0.	9.16-13
	0.	0.	0.	0.	0.	0.	0.	5.65-14
	0.	0.	0.	0.	0.	0.	0.	3.99-14

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.33-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	2.31-13
	0.	0.	0.	0.	0.	0.	0.	2.31-13

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.

321574662465 050003705415

AIR SCATTERING 4.03 02 ENERGY 1.20 01 ANGLE 6.00 01 DIST. 6.10 02
2.00 01 1.77 03 0. 0. 4.52 04 5.00 01 1.80 03

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02	
0.	0.	0.	0.	0.	0.	0.	8.96-09
0.	0.	0.	0.	0.	0.	0.	1.87-09
0.	0.	0.	0.	0.	0.	0.	1.06-09
0.	0.	0.	0.	0.	0.	0.	7.07-10
0.	0.	0.	0.	0.	0.	0.	5.60-10
0.	0.	0.	0.	0.	0.	0.	4.99-10
0.	0.	0.	0.	0.	0.	0.	3.29-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.67-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	3.09-11	1.26-12	7.89-12	1.61-11	1.64-17	6.28-26	5.70-09	1.90-09
1.58-13	1.11-10	1.11-10	8.62-12	1.05-10	8.71-15	9.00-26	1.20-09	4.51-10
1.76-10	2.04-10	6.32-11	2.23-10	2.18-11	6.15-14	2.19-22	7.12-10	2.28-10
2.09-10	7.65-11	3.49-11	4.45-11	1.75-11	2.28-12	1.64-21	4.76-10	1.23-10
9.56-10	3.77-11	6.53-11	9.55-11	8.91-11	5.68-13	4.32-22	4.51-10	1.22-10
1.11-09	5.01-11	5.66-11	1.48-10	5.30-11	9.20-14	6.62-22	4.27-10	1.00-10
6.76-10	8.31-11	8.98-11	4.07-11	3.58-11	1.77-12	6.63-22	2.89-10	3.16-11
4.91-10	7.36-11	1.17-10	3.40-09	9.73-10	2.58-13	1.39-21	1.49-10	9.53-11
2.56-11	9.58-11	2.11-11	5.00-11	3.79-10	4.18-14	1.94-22	1.57-11	6.70-12
2.90-12	3.39-11	4.91-12	1.20-11	1.89-12	5.90-14	7.25-23	2.88-12	1.40-12
8.30-10	1.81-10	1.33-10	1.05-09	3.92-10	1.53-12	1.41-21		
2.42-10	4.87-11	2.81-11	8.90-10	3.15-10	8.25-13	5.87-22	1.19-09	~~1.49-30~~

PHI 45 TO 90 DEGREES

0.	4.90-10	2.10-11	4.84-12	1.34-11	5.01-15	1.59-24	3.05-11	2.93-11
6.36-10	6.12-10	6.52-12	7.71-10	2.37-11	5.47-15	1.57-25	1.13-10	6.72-11
7.48-12	1.43-10	9.90-11	6.02-11	3.08-11	3.46-14	2.22-24	1.47-11	5.49-12
8.02-12	1.04-10	4.57-11	1.02-10	5.99-12	4.28-14	1.78-23	1.11-11	3.29-12
2.63-11	9.32-11	1.47-10	4.47-11	7.34-12	3.61-13	7.27-22	1.44-11	7.23-12
1.18-10	3.22-11	3.52-10	2.05-11	1.20-11	4.21-14	2.22-24	2.59-11	1.49-11
1.73-11	9.63-11	1.06-10	4.61-11	3.66-11	1.81-13	1.04-22	1.28-11	4.36-12
4.17-11	1.22-11	2.34-10	7.91-11	8.09-11	1.24-12	4.19-21	1.60-11	5.78-12
6.18-10	1.39-10	2.49-11	2.05-09	2.75-12	1.47-13	1.62-22	1.14-10	6.82-11
1.06-11	1.14-11	1.07-11	3.49-10	2.73-12	3.86-15	2.28-22	1.06-11	7.98-12
2.65-10	2.89-10	2.32-10	6.08-10	5.25-11	5.09-13	1.32-21		
1.45-10	1.14-10	8.95-11	3.79-10	2.52-11	3.31-13	1.11-21	6.49-11	1.79-11

PHI 90 TO 135 DEGREES

0.	4.03-11	1.32-12	7.50-13	5.58-12	1.45-16	3.70-25	2.57-12	2.09-12
0.	6.13-11	2.78-11	2.05-11	1.18-13	1.54-15	6.17-23	5.17-12	2.78-12
0.	1.97-10	4.11-11	1.58-11	6.35-12	4.61-16	5.91-25	1.38-11	5.21-12
0.	5.35-11	7.96-11	1.41-10	1.29-11	2.62-15	1.42-19	9.64-12	3.56-12
4.23-12	5.87-11	3.25-10	2.39-11	5.75-12	3.88-14	2.69-24	1.62-11	1.02-11
1.21-11	1.08-11	7.36-11	6.28-11	7.29-12	2.74-13	7.55-23	6.20-12	2.78-12
8.96-12	1.52-10	6.09-11	2.47-10	3.97-12	3.04-13	2.79-23	1.81-11	5.77-12
5.33-11	2.94-11	3.90-11	8.41-11	2.12-11	3.51-14	7.74-23	1.03-11	4.77-12
1.64-11	1.33-10	1.79-10	1.08-10	3.67-11	1.85-15	1.50-24	1.91-11	8.35-12
3.77-11	2.07-11	4.39-12	3.49-11	3.34-12	6.17-14	5.31-24	5.69-12	3.52-12
2.51-11	1.77-10	1.73-10	1.92-10	2.20-11	1.68-13	4.63-20		
1.29-11	4.02-11	5.68-11	7.95-11	7.95-12	8.90-14	4.63-20	2.41-11	4.43-12

PHI 135 TO 180 DEGREES

0.	2.92-14	2.58-10	2.57-12	3.96-12	3.43-14	6.37-30	9.41-12	8.07-12
0.	3.44-11	1.03-10	4.82-12	9.80-13	7.17-16	5.67-29	5.91-12	3.07-12
0.	1.68-11	9.61-12	2.77-10	7.98-12	2.56-15	5.51-25	8.13-12	5.49-12
0.	9.60-11	2.16-11	2.09-10	6.01-12	9.79-15	3.71-24	1.16-11	6.06-12
1.54-13	2.48-10	1.65-10	9.36-11	1.34-11	8.33-15	4.19-23	2.33-11	1.56-11
0.	4.17-10	8.44-12	1.67-11	2.23-11	4.52-15	3.85-22	2.61-11	1.96-11
1.17-12	4.38-11	1.49-10	1.06-10	6.75-12	2.89-13	3.85-24	1.07-11	4.39-12
4.85-12	1.12-10	7.73-11	3.00-11	3.34-11	5.50-15	1.03-22	1.12-11	5.03-12
0.	1.35-10	6.07-11	2.86-11	2.12-11	1.04-14	2.51-18	1.13-11	7.02-12
2.66-13	3.42-12	4.65-11	2.23-09	2.18-11	2.47-14	3.03-21	5.58-11	5.33-11
1.71-12	2.25-10	1.56-10	3.44-10	2.68-11	1.08-13	4.37-19		
1.32-12	8.00-11	4.68-11	1.73-10	1.04-11	8.75-14	4.36-19	2.79-11	6.80-12
							2.05-09	2.09-10

AIR SCATTERING 4.04 02 ENERGY 1.20 01 ANGLE 9.00 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.97-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	0.	1.15-08	8.16-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	7.93-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	4.39-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.77-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	9.78-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	6.94-10	4.11-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	0.	7.32-09	5.19-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	5.05-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.80-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.80-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	6.41-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	8.61-13
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.46-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	4.42-10	2.63-09
	0.	0.	0.	0.	0.	0.	1.80-10	3.56-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	6.43-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	2.10-13
	0.	0.	0.	0.	0.	0.	0.	1.74-13

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	4.84-14
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.10-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	2.04-13
	0.	0.	0.	0.	0.	0.	0.	2.04-13

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.

050003705415 330607126635

AIR SCATTERING 4.04 02 ENERGY 1.20 01 ANGLE 9.00 01 DIST. 6.10 02
1.90 01 1.77 03 0. 0. 4.55 04 5.00 01 1.80 03

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	0.	0.	0.	0.	0.	0.	4.21-09	
0.	0.	0.	0.	0.	0.	0.	1.19-09	
0.	0.	0.	0.	0.	0.	0.	6.59-10	
0.	0.	0.	0.	0.	0.	0.	4.15-10	
0.	0.	0.	0.	0.	0.	0.	1.47-10	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							7.97-10	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
1.93-12	5.35-11	6.18-10	6.76-10	4.45-12	5.32-16	2.56-27	2.72-09	8.98-10
5.23-10	1.24-10	6.84-11	3.86-11	6.16-12	1.14-14	7.68-23	8.16-10	2.37-10
6.17-10	4.55-11	1.48-10	2.38-11	4.43-11	8.28-15	1.48-23	4.84-10	1.00-10
8.49-10	1.01-10	1.64-10	1.64-10	3.61-11	1.34-13	1.51-22	3.63-10	4.59-11
1.07-09	1.14-09	2.82-10	1.73-10	2.04-11	4.33-14	1.37-24	2.75-10	7.12-11
2.29-10	1.04-10	4.71-11	5.73-11	2.23-11	2.06-14	1.07-24	3.04-11	9.81-12
1.21-10	5.10-11	2.18-10	7.39-11	2.03-11	3.71-14	1.36-21	2.41-11	5.14-12
5.35-11	7.96-11	1.06-10	4.39-11	1.07-11	1.01-13	1.04-22	1.46-11	4.45-12
7.81-11	5.76-11	7.49-11	3.60-11	1.94-11	1.02-13	1.24-17	1.43-11	4.19-12
3.59-11	5.33-11	4.64-12	2.70-11	6.68-12	5.37-13	3.55-28	7.35-12	3.61-12
8.27-10	3.36-10	3.12-10	1.91-10	4.55-11	1.48-13	2.15-18		
1.68-10	1.78-10	7.05-11	5.23-11	1.36-11	6.05-14	2.15-18	6.21-10	7.72-11

PHI 45 TO 90 DEGREES

6.27-12	1.62-11	1.36-10	6.83-10	4.48-12	2.21-15	1.05-25	2.29-11	1.43-11
3.65-12	4.61-11	2.06-11	4.35-11	3.16-11	1.74-12	1.59-23	5.37-12	1.69-12
2.05-10	3.75-11	1.26-11	6.50-11	2.62-11	2.15-13	1.53-23	2.31-11	1.10-11
1.68-11	6.86-11	1.38-10	1.17-10	1.68-11	4.85-13	7.88-23	1.36-11	4.86-12
1.44-11	6.32-10	2.26-10	6.78-10	2.77-11	2.49-14	2.76-22	6.41-11	3.92-11
5.02-11	8.24-11	5.52-10	6.96-11	1.53-11	2.55-13	6.71-25	3.12-11	1.46-11
5.45-11	2.29-11	2.58-10	6.41-11	1.48-10	7.51-14	5.70-23	1.94-11	6.58-12
4.66-11	9.13-11	3.30-11	2.72-11	6.17-12	9.84-12	9.17-22	1.17-11	5.22-12
1.52-11	4.21-11	8.98-11	4.53-10	1.49-11	5.19-15	2.19-24	1.82-11	1.16-11
3.82-11	4.03-11	1.33-12	4.50-12	6.23-11	1.81-14	5.77-22	6.95-12	3.05-12
1.07-10	2.07-10	3.04-10	3.41-10	8.19-11	3.21-12	3.78-22		
3.59-11	9.11-11	1.07-10	1.35-10	3.98-11	2.63-12	2.35-22	4.25-11	1.04-11

PHI 90 TO 135 DEGREES

0.	2.76-11	1.12-12	9.70-11	1.84-11	1.54-15	4.60-28	4.30-12	2.44-12
1.49-12	1.00-10	1.33-11	5.64-11	5.99-12	1.79-14	5.11-26	8.08-12	3.13-12
0.	7.33-11	1.42-11	1.28-11	1.34-11	5.53-14	2.54-23	5.42-12	2.66-12
1.57-10	4.28-10	6.92-10	4.86-11	6.25-12	1.79-14	9.62-23	6.60-11	4.46-11
0.	6.71-10	1.66-11	1.78-10	1.53-11	5.73-14	9.28-22	4.54-11	3.71-11
3.03-13	1.12-11	1.09-10	3.75-11	6.18-12	2.53-14	6.18-22	5.62-12	2.83-12
1.17-11	4.75-10	5.45-11	2.22-11	5.18-11	2.23-13	6.16-22	3.28-11	2.40-11
8.58-13	1.24-10	5.37-11	1.00-11	1.37-11	3.20-12	1.56-25	9.93-12	5.32-12
0.	1.23-12	1.47-11	7.57-10	1.45-10	1.84-13	4.39-27	2.11-11	1.82-11
9.57-12	3.42-11	1.36-10	6.21-12	1.87-11	7.01-15	1.11-22	8.24-12	4.42-12
5.62-11	4.87-10	2.97-10	2.14-10	5.83-11	9.93-13	5.14-22		
5.08-11	2.05-10	2.16-10	1.35-10	2.85-11	8.51-13	3.11-22	5.10-11	1.83-11

PHI 135 TO 180 DEGREES

0.	1.06-13	1.38-10	2.62-11	1.14-11	3.93-14	1.02-24	5.78-12	4.99-12
0.	2.59-10	1.77-12	1.50-11	1.46-10	1.19-14	9.95-24	1.82-11	8.69-12
9.30-14	3.55-10	3.82-11	1.03-10	6.33-11	2.62-13	4.52-23	2.61-11	1.45-11
0.	9.33-12	9.11-12	1.39-10	1.66-11	4.82-13	9.14-22	4.48-12	3.18-12
0.	1.31-10	8.37-11	3.04-11	7.18-12	4.60-14	4.60-26	1.17-11	1.03-11
0.	6.14-12	7.37-12	3.90-11	2.49-11	9.88-14	2.43-22	1.94-12	8.14-13
0.	2.45-11	1.71-11	1.14-10	2.96-11	6.11-13	6.06-20	5.27-12	2.12-12
8.73-13	6.97-11	1.99-11	1.03-10	1.54-10	8.14-14	9.21-19	9.75-12	3.86-12
0.	5.91-11	7.46-11	1.45-10	8.67-11	1.89-16	1.12-23	1.10-11	5.07-12
7.52-11	3.23-11	1.48-10	1.04-10	9.35-12	3.31-16	1.83-24	1.67-11	8.63-12
4.79-12	2.05-10	7.04-11	1.85-10	1.20-10	4.77-13	2.65-19		
4.54-12	8.90-11	2.11-11	6.72-11	5.80-11	1.65-13	2.46-19	2.15-11	6.19-12
							1.16-09	1.33-10

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AIR SCATTERING   4.05 02 ENERGY   1.20 01 ANGLE    1.35 02   DIST.   6.10 02
1.25-03 1.07-02 3.20 01 1.97-06

                         FIRST                        COLLISION

            1.20 01 7.00      4.50      2.75      1.75      1.10      6.60-01 4.00-01

2.00 01     0.      0.        0.        0.        0.        0.        0.      2.65-08
4.00 01     0.      0.        0.        0.        0.        0.        0.      7.14-09
6.00 01     0.      0.        0.        0.        0.        0.        0.      3.12-10
8.00 01     0.      0.        0.        0.        0.        0.        0.      0.
9.00 01     0.      0.        0.        0.        0.        0.        0.      0.
1.00 02     0.      0.        0.        0.        0.        0.        0.      0.
1.20 02     0.      0.        0.        0.        0.        0.        0.      0.
1.40 02     0.      0.        0.        0.        0.        0.        0.      0.
1.60 02     0.      0.        0.        0.        0.        0.        0.      0.
1.80 02     0.      0.        0.        0.        0.        0.        0.      0.

            0.      0.        0.        0.        0.        0.        0.      2.92-09

                       MULTIPLE                      COLLISIONS

                         PHI        0    TO    45    DEGREES

            1.20 01 7.00      4.50      2.75      1.75      1.10      6.60-01 4.00-01

2.00 01     0.      0.        0.        0.        0.        0.        0.      1.69-08
4.00 01     0.      0.        0.        0.        0.        0.        0.      7.19-09
6.00 01     0.      0.        0.        0.        0.        0.        0.      2.45-10
8.00 01     0.      0.        0.        0.        0.        0.        8.76-15 2.69-13
9.00 01     0.      0.        0.        0.        0.        0.        0.      0.
1.00 02     0.      0.        0.        0.        0.        0.        0.      0.
1.20 02     0.      0.        0.        0.        0.        0.        0.      0.
1.40 02     0.      0.        0.        0.        0.        0.        0.      0.
1.60 02     0.      0.        0.        0.        0.        0.        0.      0.
1.80 02     0.      0.        0.        0.        0.        0.        0.      0.

            0.      0.        0.        0.        0.        0.        2.86-15 2.33-09
            0.      0.        0.        0.        0.        0.        2.86-15 5.39-10

                         PHI       45    TO    90    DEGREES

2.00 01     0.      0.        0.        0.        0.        0.        0.      0.
4.00 01     0.      0.        0.        0.        0.        0.        0.      7.36-25
6.00 01     0.      0.        0.        0.        0.        0.        0.      5.04-13
8.00 01     0.      0.        0.        0.        0.        0.        0.      0.
9.00 01     0.      0.        0.        0.        0.        0.        0.      0.
1.00 02     0.      0.        0.        0.        0.        0.        0.      0.
1.20 02     0.      0.        0.        0.        0.        0.        0.      0.
1.40 02     0.      0.        0.        0.        0.        0.        0.      0.
1.60 02     0.      0.        0.        0.        0.        0.        0.      0.
1.80 02     0.      0.        0.        0.        0.        0.        0.      0.

            0.      0.        0.        0.        0.        0.        0.      1.34-13
            0.      0.        0.        0.        0.        0.        0.      1.14-13

                         PHI       90    TO   135    DEGREES

2.00 01     0.      0.        0.        0.        0.        0.        0.      0.
4.00 01     0.      0.        0.        0.        0.        0.        0.      1.96-10
6.00 01     0.      0.        0.        0.        0.        0.        0.      0.
8.00 01     0.      0.        0.        0.        0.        0.        0.      0.
9.00 01     0.      0.        0.        0.        0.        0.        0.      1.60-10
1.00 02     0.      0.        0.        0.        0.        0.        0.      0.
1.20 02     0.      0.        0.        0.        0.        0.        0.      0.
1.40 02     0.      0.        0.        0.        0.        0.        0.      0.
1.60 02     0.      0.        0.        0.        0.        0.        0.      0.
1.80 02     0.      0.        0.        0.        0.        0.        0.      0.

            0.      0.        0.        0.        0.        0.        0.      6.19-11
            0.      0.        0.        0.        0.        0.        0.      4.39-11

                         PHI      135    TO   180    DEGREES

2.00 01     0.      0.        0.        0.        0.        0.        0.      0.
4.00 01     0.      0.        0.        0.        0.        0.        0.      0.
6.00 01     0.      0.        0.        0.        0.        0.        0.      0.
8.00 01     0.      0.        0.        0.        0.        0.        0.      0.
9.00 01     0.      0.        0.        0.        0.        0.        0.      0.
1.00 02     0.      0.        0.        0.        0.        0.        0.      0.
1.20 02     0.      0.        0.        0.        0.        0.        0.      0.
1.40 02     0.      0.        0.        0.        0.        0.        0.      0.
1.60 02     0.      0.        0.        0.        0.        0.        0.      0.
1.80 02     0.      0.        0.        0.        0.        0.        0.      0.

            0.      0.        0.        0.        0.        0.        0.      0.
            0.      0.        0.        0.        0.        0.        0.      0.

330607126635        326312427121
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AIR SCATTERING 4.05 02 ENERGY 1.20 01 ANGLE 1.35 02 DIST. 6.10 02
2.40 01 1.77 03 0. 0. 4.49 04 5.00 01 1.80 03

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02	
0.	0.	0.	0.	0.	0.	0.	3.97-09
0.	0.	0.	0.	0.	0.	0.	1.07-09
0.	0.	0.	0.	0.	0.	0.	4.69-11
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	4.38-10

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
2.17-09	7.73-11	9.07-11	1.47-11	1.02-11	7.53-13	7.32-24	2.73-09	6.29-10
3.16-10	2.01-10	1.57-10	1.36-10	3.69-12	4.28-15	5.11-22	1.13-09	3.68-10
6.10-10	6.29-11	9.30-11	9.76-11	6.72-11	2.21-14	6.15-21	1.02-10	2.03-11
2.26-10	6.52-11	4.95-11	2.44-10	4.67-11	2.76-12	6.93-24	3.27-11	7.39-12
2.75-10	3.73-11	3.03-11	4.84-11	1.18-11	2.94-14	4.13-20	2.94-11	1.69-11
1.33-11	1.00-11	6.87-11	9.94-12	7.54-12	2.11-14	2.71-23	4.48-12	1.49-12
9.76-11	5.79-11	7.24-11	4.80-11	3.34-12	7.62-15	2.37-22	1.61-11	7.21-12
2.21-12	3.62-11	1.16-11	2.75-11	4.66-12	1.68-15	3.28-20	3.52-12	1.34-12
0.	5.45-11	1.33-11	2.11-11	4.03-12	1.19-14	2.54-24	4.32-12	2.41-12
0.	0.	1.02-09	1.04-12	3.80-13	2.88-16	0.	3.66-11	3.07-11
5.04-10	1.24-10	1.81-10	1.66-10	4.08-11	9.67-13	8.98-21		
1.40-10	2.69-11	5.56-11	5.43-11	1.77-11	8.98-13	7.35-21	4.14-10	8.29-11

PHI 45 TO 90 DEGREES

5.11-10	4.03-10	5.24-10	1.43-10	3.07-12	1.26-14	1.38-25	9.25-11	5.15-11
9.14-11	3.25-11	4.35-11	4.70-11	1.10-11	9.66-14	1.78-21	1.30-11	3.76-12
1.42-10	4.32-11	4.32-11	3.42-11	9.47-12	2.02-14	1.18-21	1.80-11	5.76-12
2.98-11	1.38-10	3.77-11	6.35-11	5.05-11	4.95-15	2.95-23	1.46-11	5.26-12
4.93-11	3.93-11	6.57-11	8.43-11	2.41-12	2.07-14	3.83-22	1.12-11	4.67-12
5.28-12	1.32-10	1.21-10	7.07-11	3.84-11	2.09-14	6.48-24	1.50-11	6.16-12
4.54-11	3.21-10	9.48-11	1.32-11	3.50-12	2.43-14	1.97-24	2.72-11	1.23-11
0.	9.47-11	9.56-12	2.64-11	7.29-11	3.00-14	9.84-27	7.76-12	3.45-12
0.	2.62-11	4.20-11	9.87-11	5.57-12	4.32-17	3.96-30	5.53-12	2.58-12
2.39-13	2.22-11	1.77-11	6.51-11	1.60-12	9.18-17	0.	3.58-12	1.92-12
1.19-10	2.52-10	1.37-10	1.06-10	4.98-11	4.76-14	7.02-22		
3.55-11	8.32-11	3.50-11	2.39-11	2.33-11	1.89-14	4.30-22	3.41-11	6.53-12

PHI 90 TO 135 DEGREES

1.21-11	1.99-11	2.10-10	3.08-11	1.04-12	5.67-14	1.47-24	1.06-11	4.95-12
3.88-11	3.41-11	1.52-11	2.83-11	9.84-12	2.49-13	2.94-23	3.63-11	2.95-11
2.30-10	4.14-11	5.09-11	4.26-11	6.54-12	1.87-14	5.47-26	2.61-11	1.75-11
2.66-13	1.80-10	8.81-12	4.30-11	8.72-12	8.22-15	8.36-23	1.23-11	6.41-12
8.08-13	8.72-11	1.13-10	2.85-11	4.05-11	3.73-15	2.94-23	3.47-11	2.47-11
0.	5.84-11	5.94-11	3.24-12	2.44-12	6.69-14	3.53-29	5.76-12	2.85-12
0.	1.63-11	3.04-11	1.20-11	9.00-12	9.03-14	2.78-25	2.50-12	1.04-12
0.	1.77-11	1.12-11	8.78-12	1.49-11	1.38-14	1.22-24	1.90-12	9.68-13
1.14-11	1.57-11	5.42-11	7.80-12	2.07-12	2.36-15	4.40-27	4.13-12	1.81-12
0.	5.66-11	3.82-10	1.64-11	8.80-12	5.66-14	0.	1.77-11	1.13-11
7.08-11	1.18-10	1.07-10	4.82-11	2.16-11	1.04-13	3.80-23		
5.13-11	3.83-11	2.99-11	9.75-12	7.52-12	3.91-14	2.75-23	2.80-11	8.76-12

PHI 135 TO 180 DEGREES

2.99-11	1.41-10	4.05-11	8.03-11	1.54-12	1.69-13	8.36-25	1.46-11	7.34-12
4.19-11	8.61-11	1.03-10	1.57-11	2.18-12	3.66-15	1.27-21	1.31-11	4.39-12
4.03-12	7.01-11	2.02-11	3.14-11	5.97-12	1.29-13	2.12-25	6.14-12	4.00-12
4.81-14	1.48-11	7.12-11	1.35-11	1.21-11	1.74-14	6.82-23	3.96-12	1.46-12
9.12-14	5.75-12	2.25-11	1.76-11	4.35-13	1.22-14	3.21-20	1.59-12	4.63-13
1.87-12	2.42-12	3.74-11	1.81-11	7.56-12	1.46-15	5.47-20	2.21-12	1.06-12
0.	3.62-11	3.44-11	1.94-11	3.56-10	9.69-16	1.61-18	9.22-12	5.43-12
0.	3.40-11	2.89-11	1.06-11	2.44-11	4.14-15	1.06-20	3.70-12	2.18-12
0.	4.35-11	6.47-11	7.52-12	2.44-13	1.69-14	3.27-29	5.12-12	2.87-12
0.	1.61-11	1.43-12	7.17-12	4.97-12	6.01-14	7.94-25	1.26-12	9.26-13
1.05-11	7.77-11	8.96-11	3.74-11	1.30-10	6.13-14	5.43-19		
3.48-12	2.47-11	2.29-11	7.28-12	1.15-10	4.06-14	5.20-19	1.17-11	2.55-12
							7.65-10	1.33-10

AIR SCATTERING 4.06 02 ENERGY 1.20 01 ANGLE 1.80 02 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.9T-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	4.03-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	2.43-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	2.57-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.15-14
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.55-09
	0.	0.	0.	0.	0.	0.	0.	2.06-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.00-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.61-15
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	6.04-13
	0.	0.	0.	0.	0.	0.	0.	4.02-13

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	3.51-13
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.70-12
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	3.16-13
	0.	0.	0.	0.	0.	0.	0.	2.04-13

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	3.39-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.27-13
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	2.07-12
	0.	0.	0.	0.	0.	0.	0.	1.44-12

3117122 01371 136147504665

AIR SCATTERING 4.06 02 ENERGY 1.20 01 ANGLE 1.80 02 DIST. 6.10 02
2.30 01 1.77 03 0. 0. 4.54 04 5.00 01 1.80 03

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02	
0.	0.	0.	0.	0.	0.	0.	6.05-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
							3.65-10

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
5.49-10	7.48-11	4.28-11	2.34-11	8.96-12	1.18-14	1.88-20	3.91-09	5.12-10
3.59-10	9.39-11	4.39-11	3.30-11	3.79-11	1.19-12	6.98-23	4.09-11	2.20-11
1.41-10	3.61-11	5.22-11	4.48-11	1.73-11	2.28-13	9.32-21	1.81-11	4.44-12
2.58-10	3.94-11	1.05-10	1.46-10	6.60-12	5.61-13	3.67-23	3.39-11	1.86-11
7.81-13	4.95-11	3.47-11	2.24-11	1.12-11	4.02-14	1.91-18	4.99-12	1.65-12
1.08-12	2.73-11	7.41-12	3.59-11	1.06-11	3.75-14	9.25-19	3.02-12	1.11-12
1.17-13	2.75-11	7.18-11	3.89-11	1.28-11	1.86-13	1.56-19	5.33-12	1.89-12
0.	4.16-10	6.79-12	4.84-11	1.86-11	1.07-12	3.60-21	2.67-11	2.41-11
0.	2.82-11	1.09-11	1.31-11	6.19-13	6.71-13	8.30-25	2.41-12	1.33-12
0.	0.	1.81-11	6.14-11	1.20-11	2.80-14	1.12-27	2.31-12	1.95-12
2.18-10	1.81-10	9.40-11	1.08-10	2.76-11	9.29-13	5.47-19		
7.43-11	1.08-10	2.59-11	4.90-11	7.71-12	4.25-13	4.89-19	2.69-10	3.52-11

PHI 45 TO 90 DEGREES

5.99-10	7.29-10	3.05-10	1.54-10	1.84-11	3.58-13	7.72-24	1.14-10	4.35-11
8.59-11	1.48-10	5.15-11	3.21-11	1.25-11	5.05-13	3.13-24	1.95-11	6.23-12
5.20-11	4.95-11	7.98-11	6.28-11	2.02-11	1.36-12	5.96-28	1.23-11	3.01-12
5.73-11	4.42-11	8.76-11	6.05-10	9.68-11	3.78-13	8.60-22	2.69-11	1.40-11
1.60-11	2.48-11	1.41-10	5.01-11	6.23-12	8.26-15	2.01-20	9.30-12	3.28-12
1.18-12	4.74-11	3.19-11	5.80-11	8.82-12	1.48-13	5.80-25	5.62-12	2.29-12
0.	2.68-10	4.65-11	1.56-11	1.15-11	3.18-13	5.52-17	1.83-11	8.93-12
5.04-12	2.31-11	1.11-11	8.60-11	2.04-11	1.20-13	4.92-16	4.61-12	1.54-12
0.	1.64-11	1.29-11	5.51-11	1.57-12	2.25-15	9.29-25	2.80-12	1.30-12
0.	1.28-11	1.91-11	4.08-11	5.43-12	1.86-18	5.59-34	2.52-12	1.24-12
8.79-11	2.07-10	1.29-10	2.88-10	5.26-11	7.58-13	1.49-16		
2.11-11	5.71-11	3.23-11	1.75-10	1.87-11	4.59-13	1.49-16	3.28-11	6.75-12

PHI 90 TO 135 DEGREES

1.19-09	5.85-10	6.34-11	4.10-11	1.44-11	1.34-13	2.62-26	1.46-10	6.03-11
1.94-10	7.87-11	6.86-11	9.39-11	2.53-12	2.96-14	6.71-24	2.72-11	1.03-11
1.05-10	2.31-11	6.66-11	1.22-10	3.38-11	5.96-13	1.50-22	1.67-11	6.38-12
3.67-11	2.00-11	3.27-11	1.82-10	1.08-11	1.90-12	7.87-23	1.02-11	3.55-12
4.55-13	1.61-11	2.69-11	1.46-11	2.51-11	1.50-13	1.80-20	2.70-12	7.86-13
4.97-12	1.26-11	4.48-11	6.52-11	2.60-11	1.40-12	7.54-20	4.79-12	1.68-12
0.	1.46-11	8.54-11	2.53-11	6.79-12	2.89-13	4.82-21	4.66-12	1.58-12
3.26-13	2.87-12	5.06-11	7.70-11	1.86-11	3.06-13	5.04-24	4.15-12	2.50-12
0.	1.43-10	2.82-12	5.47-11	1.28-12	3.43-14	1.73-24	1.00-11	5.70-12
0.	5.73-12	6.57-12	2.03-11	1.33-11	1.91-18	3.94-24	1.27-12	4.89-13
1.46-10	9.73-11	9.88-11	1.64-10	3.09-11	1.24-12	1.79-20		
4.13-11	3.09-11	2.24-11	5.04-11	9.87-12	6.31-13	1.40-20	2.70-11	4.96-12

PHI 135 TO 180 DEGREES

7.38-10	5.37-11	8.65-11	2.93-11	1.92-11	1.47-14	3.65-22	7.88-11	2.73-11
5.72-10	2.64-10	8.30-11	4.12-11	4.14-12	2.21-14	6.05-22	6.60-11	3.76-11
4.77-11	2.23-11	5.58-11	2.61-11	1.36-11	1.99-14	2.99-24	8.46-12	2.06-12
1.31-10	5.87-11	6.76-11	1.25-10	1.17-11	2.37-13	1.03-18	2.10-11	7.81-12
2.59-12	1.91-10	3.19-11	3.74-11	4.33-11	1.50-15	2.28-23	1.44-11	7.57-12
7.95-14	4.09-11	4.44-11	3.24-11	8.04-13	4.28-15	2.01-26	4.85-12	1.79-12
1.12-13	3.77-11	1.38-11	2.59-10	4.38-11	1.19-15	2.73-25	9.65-12	5.15-12
9.16-13	4.83-11	1.22-11	3.30-11	1.56-11	2.32-14	4.29-22	4.44-12	2.26-12
0.	9.38-11	4.23-12	7.20-11	1.42-15	5.20-14	1.54-23	7.51-12	5.77-12
0.	1.25-12	1.10-10	2.63-11	3.04-11	5.46-14	0.	5.11-12	3.94-12
1.90-10	1.56-10	8.49-11	1.76-10	3.73-11	1.07-13	3.37-19		
5.84-11	5.06-11	1.75-11	8.22-11	1.59-11	6.31-14	3.37-19	3.46-11	8.91-12
							5.71-10	6.50-11

AIR SCATTERING 4.07 02 ENERGY 7.00 ANGLE 1.00 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	3.26-06	2.07-06	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	1.95-06	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	1.42-06	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	7.71-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.24-06
	1.97-07	1.25-07	0.	3.38-07	0.	0.	4.64-07	2.69-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	2.08-06	1.32-06	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	1.24-06	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	9.06-07	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.23-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.91-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.43-06
	1.25-07	7.96-08	0.	2.15-07	0.	0.	2.96-07	1.71-07
	4.41-08	7.96-08	0.	2.15-07	0.	0.	2.95-07	9.23-08

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.45-13
1.60 02	0.	0.	0.	0.	0.	0.	2.24-17	1.03-10
1.80 02	0.	0.	0.	0.	0.	1.34-15	1.63-14	1.69-09
	0.	0.	0.	0.	0.	8.06-17	9.87-16	1.20-10
	0.	0.	0.	0.	0.	8.06-17	8.22-16	6.24-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.48-12
1.20 02	0.	0.	0.	0.	1.49-16	0.	0.	7.05-14
1.40 02	0.	0.	0.	0.	0.	0.	2.43-14	8.20-13
1.60 02	0.	0.	0.	0.	0.	0.	8.23-13	7.71-10
1.80 02	0.	0.	0.	0.	0.	1.89-12	2.04-12	4.16-09
	0.	0.	0.	0.	0.	1.14-13	2.73-13	3.85-10
	0.	0.	0.	0.	0.	1.14-13	1.52-13	1.62-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	6.73-16
1.40 02	0.	0.	0.	0.	0.	0.	6.50-11	1.29-12
1.60 02	0.	0.	0.	0.	0.	0.	1.77-11	6.60-10
1.80 02	0.	0.	0.	0.	0.	0.	1.60-10	6.91-10
	0.	0.	0.	0.	0.	0.	3.00-11	1.57-10
	0.	0.	0.	0.	0.	0.	1.91-11	8.61-11

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AIR SCATTERING 4.07 02 ENERGY 7.00 ANGLE 1.00 DIST. 6.10 02
3.40 01 1.75 03 0. 0. 4.80 04 5.00 01 1.80 03

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	1.13-05
0.	0.	0.	0.	0.	0.	0.	1.36-06
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	2.56-07
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	7.71-08
0.	0.	0.	0.	0.	0.	0.	2.24-07
0.	0.	0.	0.	0.	0.	0.	1.03-06

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
0.	7.49-11	6.43-11	3.86-10	2.79-11	1.13-13	6.60-25	7.18-06	2.69-06
1.52-12	8.84-11	6.13-11	7.37-11	2.97-13	1.19-14	7.51-27	8.68-07	8.68-07
3.16-12	1.79-10	1.20-10	5.19-11	3.28-11	6.87-14	1.82-26	1.45-11	6.29-12
5.01-11	2.57-10	2.36-11	9.41-11	3.99-11	7.84-15	9.83-21	2.00-11	1.13-11
5.35-11	6.63-10	1.98-11	1.04-11	5.62-12	1.30-13	1.83-26	3.83-11	2.39-11
2.25-09	7.58-11	1.11-10	6.55-11	3.90-12	4.44-14	8.99-24	1.89-10	1.30-10
6.91-11	1.30-10	8.15-10	5.27-10	2.74-11	2.05-13	1.93-22	1.63-07	1.63-07
3.41-10	4.90-11	1.02-10	1.26-10	9.35-11	2.10-13	4.19-29	3.80-11	1.31-11
5.77-10	2.55-10	9.95-11	3.64-11	5.19-11	6.10-13	4.64-25	4.91-08	4.90-08
4.43-09	3.42-10	6.35-11	1.68-10	1.18-11	1.53-13	2.08-23	1.43-07	5.91-08
8.98-10	4.00-10	3.91-10	3.16-10	6.86-11	2.98-13	3.27-21		
3.97-10	1.18-10	2.20-10	1.20-10	2.62-11	1.23-13	3.17-21	6.54-07	2.28-07

PHI 45 TO 90 DEGREES

0.	4.94-10	6.02-11	2.95-10	7.16-11	3.26-14	5.17-22	3.35-11	1.70-11
1.21-12	1.26-10	2.62-10	8.77-11	2.25-11	1.81-14	1.58-23	1.69-11	6.27-12
1.26-11	3.29-10	1.16-10	1.21-10	2.71-11	1.39-14	4.19-25	2.40-11	1.04-11
6.15-11	1.28-10	2.65-11	1.98-10	5.12-12	1.83-13	8.67-25	1.62-11	5.36-12
2.67-10	3.48-11	9.74-11	3.04-11	9.72-12	7.11-15	2.19-29	2.69-11	2.05-11
4.60-11	1.26-10	2.50-10	1.11-10	4.94-12	2.06-14	8.57-27	2.02-11	8.56-12
3.56-10	1.70-10	2.42-10	1.42-10	2.88-10	1.16-13	1.76-22	5.13-11	1.27-11
3.60-10	1.46-10	1.52-10	1.50-10	3.26-11	2.58-14	3.26-23	4.44-11	1.61-11
1.13-10	2.97-11	1.77-10	1.22-10	2.50-10	5.85-14	2.07-23	3.21-11	1.05-11
1.71-09	1.56-10	3.92-10	4.30-11	2.66-11	9.23-14	1.58-26	3.27-10	1.40-10
4.12-10	3.18-10	3.23-10	2.04-10	1.67-10	1.34-13	1.04-22		
1.15-10	7.27-11	8.22-11	5.90-11	9.89-11	4.72-14	6.61-23	7.87-11	1.26-11

PHI 90 TO 135 DEGREES

0.	1.20-10	3.88-11	6.39-11	4.67-11	6.68-14	1.39-24	9.15-12	4.28-12
8.66-13	4.39-09	9.68-11	9.78-11	2.81-11	3.98-13	6.95-24	2.25-10	2.15-10
1.62-14	6.11-10	4.66-11	4.62-11	8.89-12	3.09-13	9.31-26	3.31-11	2.03-11
1.44-11	1.83-10	6.60-11	6.02-10	2.17-11	2.75-12	2.62-17	2.48-11	1.20-11
1.46-10	9.84-11	5.97-11	2.30-12	1.07-11	4.84-12	4.12-27	1.87-11	7.60-12
1.98-10	7.45-11	3.14-10	2.01-11	8.39-11	1.29-13	5.42-23	3.13-11	1.41-11
3.44-10	3.34-10	9.34-11	6.80-11	5.55-09	2.10-12	5.77-22	1.21-10	7.71-11
3.43-10	3.72-10	8.91-11	7.87-10	1.66-10	2.64-14	3.50-21	6.69-11	2.75-11
1.35-10	1.70-10	6.19-11	1.33-10	1.30-10	5.12-12	1.34-28	1.03-10	7.57-11
2.85-10	4.09-10	1.93-10	2.66-10	2.72-11	1.19-13	1.22-30	4.72-10	1.59-10
3.09-10	1.28-09	1.95-10	5.04-10	1.91-09	3.50-12	8.55-18		
1.30-10	7.64-10	4.31-11	2.25-10	1.81-09	2.06-12	8.55-18	1.69-10	5.20-11

PHI 135 TO 180 DEGREES

0.	4.20-10	1.31-11	1.81-11	2.16-12	1.47-13	2.50-21	2.18-11	2.08-11
0.	1.31-10	1.17-10	3.06-11	9.49-12	9.95-13	6.37-17	1.11-11	6.24-12
1.09-10	1.70-10	4.79-11	1.90-11	1.07-11	8.05-14	2.41-24	1.93-11	1.04-11
2.27-10	1.98-10	5.29-11	3.92-11	1.15-11	1.39-13	2.33-22	3.07-11	1.47-11
1.27-10	5.04-11	7.40-11	4.38-10	1.91-11	8.13-15	1.91-22	2.41-11	1.02-11
3.51-10	8.91-11	8.95-11	9.83-11	9.74-12	1.06-13	1.54-20	3.75-11	1.72-11
1.93-10	1.01-10	3.08-10	2.86-11	1.60-11	2.86-13	2.22-23	3.11-11	1.00-11
2.20-10	9.61-11	1.36-10	1.10-10	2.97-11	5.74-13	7.60-20	4.12-11	1.63-11
1.28-10	5.91-11	3.00-10	3.45-10	3.28-11	4.29-13	2.18-22	9.93-11	5.01-11
1.98-10	2.03-10	1.83-10	1.38-10	5.41-09	2.16-13	8.22-27	2.02-10	8.32-11
3.42-10	2.63-10	2.78-10	2.24-10	3.58-10	6.02-13	1.11-17		
8.97-11	7.66-11	7.28-11	8.13-11	3.26-10	2.26-13	1.11-17	7.96-11	1.40-11
							1.03-06	3.58-07

AIR SCATTERING 4.08 02 ENERGY 7.00 ANGLE 1.50 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	1.00-08	1.08-07	7.70-08	0.	0.	0.	0.	0.
4.00 01	0.	0.	5.52-09	3.48-08	1.50-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	1.89-08	2.31-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	1.63-08	1.17-08	0.
9.00 01	0.	0.	0.	0.	0.	0.	1.94-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	3.16-08	0.
1.20 02	0.	0.	0.	0.	0.	0.	6.71-09	2.69-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	4.52-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.13-08
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.17-08
	6.05-10	6.49-09	5.60-09	6.05-09	7.62-09	1.15-08	1.49-08	3.28-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	6.39-09	6.86-08	4.90-08	0.	1.86-08	0.	0.	0.
4.00 01	0.	0.	3.51-09	2.22-08	9.53-09	0.	0.	0.
6.00 01	0.	0.	0.	0.	1.20-08	1.47-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	1.04-08	7.44-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	1.24-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	2.01-08	0.
1.20 02	0.	0.	0.	0.	0.	0.	4.27-09	1.71-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.88-08
1.60 02	0.	0.	0.	0.	0.	0.	1.08-12	3.93-08
1.80 02	0.	0.	0.	0.	0.	4.16-11	9.50-12	1.68-08
	3.85-10	4.13-09	3.57-09	3.85-09	5.97-09	7.31-09	9.47-09	2.11-08
	2.72-10	1.25-09	1.45-09	1.92-09	3.01-09	3.66-09	4.31-09	4.35-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.20-11
1.60 02	0.	0.	0.	0.	0.	0.	2.58-12	5.34-11
1.80 02	0.	0.	0.	0.	0.	6.26-13	2.79-12	3.22-10
	0.	0.	0.	0.	0.	3.78-14	6.17-13	3.72-11
	0.	0.	0.	0.	0.	3.77-14	4.78-13	1.23-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.15-13
1.40 02	0.	0.	0.	0.	0.	0.	1.94-12	1.11-13
1.60 02	0.	0.	0.	0.	0.	0.	6.84-12	5.99-11
1.80 02	0.	0.	0.	0.	0.	0.	1.22-10	2.25-11
	0.	0.	0.	0.	0.	0.	9.07-12	1.19-11
	0.	0.	0.	0.	0.	0.	7.05-12	9.80-12

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.79-13
1.40 02	0.	0.	0.	0.	0.	0.	1.07-10	1.10-11
1.60 02	0.	0.	0.	0.	0.	0.	1.68-11	2.52-11
1.80 02	0.	0.	0.	0.	0.	0.	1.00-11	4.66-12
	0.	0.	0.	0.	0.	0.	3.20-11	7.67-12
	0.	0.	0.	0.	0.	0.	3.13-11	5.03-12

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AIR SCATTERING 4.08 02 ENERGY 7.00 ANGLE 1.50 01 DIST. 6.10 02
2.90 01 1.76 03 0. 0. 4.78 04 5.00 01 1.80 03

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	2.71-07
0.	0.	0.	0.	0.	0.	0.	3.64-08
0.	0.	0.	0.	0.	0.	0.	1.45-08
0.	0.	0.	0.	0.	0.	0.	7.00-09
0.	0.	0.	0.	0.	0.	0.	3.50-09
0.	0.	0.	0.	0.	0.	0.	5.70-09
0.	0.	0.	0.	0.	0.	0.	3.89-09
0.	0.	0.	0.	0.	0.	0.	4.52-09
0.	0.	0.	0.	0.	0.	0.	6.13-09
0.	0.	0.	0.	0.	0.	0.	2.17-09
0.	0.	0.	0.	0.	0.	0.	3.41-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
0.	2.53-12	8.93-11	1.12-10	7.39-12	6.37-14	1.08-32	1.80-07	4.29-08
4.91-13	2.10-11	1.74-11	6.61-11	2.99-11	1.06-14	2.23-24	2.32-08	9.46-09
2.03-12	1.80-10	4.72-11	1.76-11	1.10-11	9.86-14	2.68-25	9.23-09	4.61-09
9.80-11	1.02-10	1.03-10	2.81-11	6.63-10	7.76-14	3.21-24	4.48-09	2.58-09
2.11-10	2.50-11	7.62-11	9.70-11	4.55-10	1.13-13	2.16-27	2.26-09	2.23-09
4.53-10	2.35-10	5.09-11	4.70-11	9.34-12	6.88-14	9.55-22	3.68-09	2.57-09
2.34-10	1.81-10	5.15-11	1.28-10	1.57-10	2.39-14	2.07-22	2.51-09	1.26-09
1.13-09	1.72-10	6.87-11	5.84-11	1.81-11	1.61-13	7.93-24	2.98-09	1.01-09
2.62-10	4.55-10	3.32-10	2.30-10	1.12-09	6.23-14	3.19-25	4.01-09	6.66-10
2.61-10	1.95-10	1.82-10	4.41-11	2.20-12	1.74-13	9.26-26	1.73-09	1.65-10
5.85-10	3.26-10	1.80-10	1.56-10	5.56-10	1.61-13	2.37-22		
1.84-10	7.92-11	3.98-11	4.39-11	3.71-10	4.88-14	1.78-22	2.23-08	3.47-09

PHI 45 TO 90 DEGREES

0.	8.20-11	2.48-14	5.08-11	3.83-12	1.58-13	1.46-29	5.17-12	2.45-12
0.	7.18-11	2.31-11	5.14-11	1.11-11	1.84-13	3.45-23	5.51-12	2.53-12
4.65-12	7.31-11	3.26-11	1.06-10	2.14-11	9.00-15	4.43-24	7.46-12	2.32-12
2.30-10	7.07-11	7.22-11	3.47-11	6.57-11	2.65-13	5.39-26	2.58-11	1.36-11
8.05-10	9.84-11	2.69-10	2.54-10	2.56-11	8.53-16	4.34-24	8.34-11	6.32-11
1.11-10	8.73-11	1.66-10	4.97-11	8.60-12	9.09-14	7.22-24	1.96-11	6.34-12
5.60-10	8.95-10	8.45-11	6.62-11	1.12-11	6.16-13	9.86-24	9.38-11	5.48-11
1.14-10	1.77-10	2.39-10	9.86-11	1.30-11	1.54-13	4.70-25	3.10-11	6.98-12
6.81-10	1.32-10	1.22-10	8.58-11	4.37-12	5.58-13	1.74-25	7.26-11	2.74-11
2.27-10	7.39-11	1.21-10	1.93-10	6.50-12	2.51-14	6.89-21	6.26-11	1.51-11
5.81-10	4.59-10	2.32-10	1.79-10	4.35-11	4.87-13	4.28-22		
2.26-10	1.99-10	5.81-11	4.58-11	2.19-11	2.34-13	4.13-22	8.48-11	2.42-11

PHI 90 TO 135 DEGREES

0.	4.15-11	2.44-10	2.07-10	7.17-13	3.26-14	6.65-31	1.40-11	8.11-12
0.	2.48-11	1.89-11	2.58-11	7.77-12	6.88-14	5.46-24	2.47-12	9.21-13
2.85-12	5.74-10	6.53-11	9.52-12	5.10-12	3.03-14	1.01-29	3.13-11	1.82-11
2.43-11	4.79-11	2.78-10	6.64-11	9.55-12	3.50-13	5.27-25	1.47-11	5.38-12
2.80-11	2.22-11	7.18-11	3.98-10	2.07-12	5.40-14	1.50-23	1.36-11	5.48-12
9.26-11	1.10-10	8.84-11	4.17-10	1.12-11	1.91-14	1.54-25	2.42-11	8.75-12
2.23-10	5.06-11	4.20-11	9.83-11	2.74-10	2.85-14	1.16-23	2.73-11	1.51-11
2.75-10	1.35-10	1.52-10	1.59-10	5.44-11	9.19-12	1.13-23	3.80-11	1.45-11
1.57-10	8.61-11	1.08-10	6.88-11	3.99-11	3.68-13	2.81-24	2.94-11	8.85-12
1.57-10	1.71-10	1.68-10	3.80-11	9.96-11	1.99-13	1.08-25	5.28-11	2.28-11
2.12-10	2.76-10	2.37-10	2.71-10	1.25-10	2.68-12	1.10-23		
7.66-11	1.01-10	5.80-11	9.46-11	6.44-11	2.43-12	7.33-24	4.83-11	8.91-12

PHI 135 TO 180 DEGREES

0.	1.04-10	3.59-11	3.50-10	6.72-15	2.33-15	5.54-34	1.34-11	8.59-12
0.	1.12-10	3.56-10	4.06-10	3.04-12	6.92-14	9.09-28	2.51-11	1.27-11
0.	3.02-10	4.51-11	1.21-11	1.95-11	5.53-14	3.36-25	1.70-11	8.73-12
2.96-11	7.84-11	3.86-11	6.55-11	3.42-12	2.05-14	3.97-26	8.88-12	3.26-12
3.01-10	1.70-10	2.91-11	7.34-11	1.98-11	8.21-14	1.42-30	3.53-11	1.64-11
3.49-11	6.68-11	1.09-10	3.04-10	3.55-11	6.93-13	7.17-22	1.62-11	5.19-12
6.84-10	1.32-10	2.20-10	2.84-10	6.52-11	4.42-12	5.00-25	7.45-11	5.01-11
1.58-10	3.73-10	2.43-10	4.72-11	1.54-11	4.19-14	1.22-22	6.05-11	2.46-11
3.04-10	2.21-10	1.34-10	2.47-10	7.78-11	3.13-12	3.97-20	5.12-11	1.34-11
4.39-10	8.45-11	1.40-10	4.14-11	1.22-11	2.25-14	8.77-30	4.70-11	1.93-11
4.13-10	3.58-10	2.81-10	3.26-10	5.61-11	2.17-12	7.04-21		
2.09-10	1.02-10	7.17-11	1.86-10	2.01-11	1.50-12	6.89-21	7.37-11	1.88-11
							3.53-08	5.45-09

AIR SCATTERING 4.09 02 ENERGY 7.00 ANGLE 3.00 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	2.50-08	5.29-08	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	1.92-08	9.60-09	0.	0.
6.00 01	0.	0.	0.	0.	0.	1.40-08	4.05-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	1.60-08	0.
9.00 01	0.	0.	0.	0.	0.	0.	1.07-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	3.04-09	1.40-08
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.90-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.95-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	8.04-09
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	1.51-09	3.19-09	3.34-09	5.38-09	8.68-09	1.52-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	1.59-08	3.37-08	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	1.22-08	6.11-09	0.	0.
6.00 01	0.	0.	0.	0.	0.	8.88-09	2.58-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	1.02-08	0.
9.00 01	0.	0.	0.	0.	0.	0.	6.83-09	0.
1.00 02	0.	0.	0.	0.	0.	0.	1.94-09	8.91-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.21-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.29-08
1.60 02	0.	0.	0.	0.	0.	1.14-16	2.66-11	7.77-09
1.80 02	0.	0.	0.	0.	0.	0.	3.19-13	4.43-10
	0.	0.	9.61-10	2.03-09	2.12-09	3.42-09	5.53-09	1.03-08
	0.	0.	3.92-10	7.17-10	9.49-10	1.30-09	1.70-09	1.52-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.37-10
1.60 02	0.	0.	0.	0.	0.	0.	3.47-12	2.20-11
1.80 02	0.	0.	0.	0.	0.	1.88-12	9.52-13	1.33-11
	0.	0.	0.	0.	0.	1.13-13	6.61-13	4.10-11
	0.	0.	0.	0.	0.	1.13-13	3.74-13	3.15-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	4.90-13	0.
1.40 02	0.	0.	0.	0.	0.	0.	1.30-11	3.38-12
1.60 02	0.	0.	0.	0.	0.	0.	8.36-14	2.17-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.57-11
	0.	0.	0.	0.	0.	0.	3.63-12	2.22-12
	0.	0.	0.	0.	0.	0.	3.37-12	1.17-12

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.43-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.19-12
1.60 02	0.	0.	0.	0.	0.	0.	3.90-14	1.41-14
1.80 02	0.	0.	0.	0.	0.	0.	2.08-11	5.86-12
	0.	0.	0.	0.	0.	0.	1.26-12	9.85-13
	0.	0.	0.	0.	0.	0.	1.26-12	6.83-13

301064331275 247553726415

AIR SCATTERING 4.09 02 ENERGY 7.00 ANGLE 3.00 01 DIST. 6.10 02
2.40 01 1.77 03 0. 0. 4.84 04 5.00 01 1.80 03

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	6.46-08
0.	0.	0.	0.	0.	0.	0.	1.06-08
0.	0.	0.	0.	0.	0.	0.	4.91-09
0.	0.	0.	0.	0.	0.	0.	2.88-09
0.	0.	0.	0.	0.	0.	0.	1.93-09
0.	0.	0.	0.	0.	0.	0.	1.95-09
0.	0.	0.	0.	0.	0.	0.	1.90-09
0.	0.	0.	0.	0.	0.	0.	1.95-09
0.	0.	0.	0.	0.	0.	0.	8.04-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	9.93-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
0.	8.01-11	5.14-10	7.96-11	6.25-12	4.94-12	0.	4.11-08	1.09-08
7.17-11	1.46-10	1.02-10	5.03-11	1.58-11	1.70-14	1.05-27	6.75-09	2.54-09
3.54-09	8.76-11	2.93-11	5.53-11	3.51-11	1.31-13	1.49-25	3.42-09	1.38-09
4.37-10	2.51-09	2.69-09	1.16-10	9.15-11	1.17-13	2.75-24	2.08-09	8.44-10
8.17-11	1.49-10	1.04-10	4.82-10	1.38-11	4.79-13	3.72-22	1.26-09	7.11-10
2.32-10	3.55-10	1.97-10	4.47-11	9.65-11	2.81-13	2.40-23	1.28-09	6.22-10
6.24-10	2.39-10	3.11-09	2.26-10	6.02-11	1.36-12	6.40-22	1.38-09	3.74-10
3.24-10	2.44-10	1.89-10	1.25-10	4.08-11	1.31-13	2.55-23	1.34-09	1.98-10
2.80-10	2.18-10	3.83-10	2.37-10	2.41-10	1.18-14	3.67-23	8.36-10	1.36-10
6.14-10	3.32-10	5.50-10	7.28-11	7.04-12	4.71-13	4.30-29	1.29-10	4.14-11
1.53-09	1.16-09	2.15-09	3.10-10	1.34-10	1.02-12	2.92-22		
7.13-10	8.07-10	1.22-09	8.58-11	4.66-11	5.68-13	2.19-22	6.64-09	9.31-10

PHI 45 TO 90 DEGREES

0.	1.22-10	1.87-11	6.68-11	3.14-11	5.06-17	2.07-23	8.43-12	6.14-12
2.27-12	2.29-09	1.72-10	1.50-10	5.67-11	6.10-13	1.90-27	1.24-10	1.11-10
7.94-11	1.10-10	1.09-10	5.78-11	9.53-13	5.03-14	2.84-28	1.65-11	5.13-12
8.38-10	1.10-10	1.80-10	2.78-10	3.85-11	1.58-13	4.58-25	8.44-11	4.81-11
8.87-10	2.37-10	1.89-10	1.37-10	2.68-11	1.10-13	8.87-25	6.09-11	2.67-11
1.24-09	2.19-10	4.26-11	4.91-10	1.48-10	2.92-14	8.05-24	1.40-10	9.44-11
4.13-10	3.30-10	1.97-10	2.77-09	1.17-10	4.28-13	1.72-26	1.13-10	5.95-11
3.44-10	2.00-10	2.41-10	3.48-10	1.66-11	5.97-14	5.86-21	6.61-11	2.34-11
6.83-10	1.47-10	1.68-10	4.16-10	9.09-12	1.11-15	1.60-26	7.87-11	3.43-11
1.80-10	4.19-11	1.73-10	8.50-10	3.09-11	2.25-14	6.65-27	3.99-11	1.64-11
9.85-10	7.39-10	3.27-10	1.37-09	1.01-10	3.52-13	1.56-21		
3.19-10	3.98-10	7.27-11	8.71-10	4.33-11	1.50-13	1.56-21	1.59-10	3.87-11

PHI 90 TO 135 DEGREES

0.	2.51-11	1.08-11	9.93-11	4.77-12	1.04-13	8.01-32	3.65-12	2.23-12
0.	7.49-11	4.36-11	9.70-11	6.74-12	7.51-13	4.02-22	7.17-12	2.96-12
4.50-12	7.76-11	1.16-10	4.48-12	1.00-10	3.70-12	2.66-24	9.39-12	3.60-12
3.06-14	2.53-10	6.66-11	3.86-10	9.13-12	3.00-15	8.69-24	2.26-11	8.04-12
1.85-11	1.88-10	4.44-11	5.88-11	3.21-11	1.64-15	4.32-26	1.39-11	5.67-12
7.31-11	4.09-11	2.69-10	4.23-11	2.09-10	3.14-14	3.56-24	2.01-11	6.65-12
6.31-12	9.16-10	1.65-10	8.89-09	5.46-11	4.77-12	1.92-22	2.30-10	1.69-10
1.42-10	8.33-11	1.91-10	1.07-10	2.43-10	5.09-14	5.49-19	2.95-11	9.74-12
2.54-10	5.54-11	1.07-10	1.16-10	4.90-10	1.60-14	2.06-25	3.54-11	1.76-11
1.27-10	5.11-11	3.59-10	9.79-11	2.10-11	1.11-15	5.11-27	2.80-11	8.81-12
1.09-10	4.91-10	2.60-10	3.12-09	2.42-10	2.70-12	1.46-19		
4.69-11	2.61-10	6.04-11	2.69-09	1.19-10	1.45-12	1.46-19	1.08-10	5.60-11

PHI 135 TO 180 DEGREES

0.	5.54-09	5.50-11	1.45-11	1.37-11	3.95-13	2.95-30	2.79-10	2.75-10
0.	1.82-10	1.90-11	3.75-11	9.75-11	6.78-11	2.90-22	1.24-11	7.96-12
0.	4.62-11	4.36-11	5.04-11	2.17-11	1.13-11	6.33-21	5.11-12	1.91-12
1.82-14	5.90-11	4.76-11	3.75-11	1.32-11	2.21-12	8.14-27	5.42-12	1.99-12
2.69-10	4.46-11	3.44-10	1.46-10	3.90-11	5.07-14	6.20-30	3.82-11	2.40-11
7.84-10	9.06-10	3.67-10	9.28-11	1.21-11	2.06-13	1.56-24	1.22-10	9.77-11
9.74-11	3.00-10	2.80-10	2.14-10	2.54-10	6.49-15	1.82-22	3.94-11	1.26-11
1.52-11	1.11-10	1.91-10	1.13-10	5.06-11	1.69-13	2.45-21	1.60-11	5.94-12
8.25-11	2.80-10	4.43-10	2.29-10	5.24-11	2.37-12	3.33-24	4.07-11	1.67-11
8.53-11	6.80-11	9.09-11	2.13-10	9.79-12	8.26-15	3.73-22	2.19-11	6.55-12
2.38-10	7.43-10	3.82-10	2.27-10	1.43-10	1.60-11	2.47-21		
1.43-10	3.61-10	1.65-10	6.88-11	7.90-11	1.48-11	1.80-21	7.53-11	2.53-11
							1.10-08	1.49-09

AIR SCATTERING 4.10 02 ENERGY 7.00 ANGLE 6.00 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	6.97-09	3.83-08	0.	0.
4.00 01	0.	0.	0.	0.	0.	3.86-09	1.12-08	0.
6.00 01	0.	0.	0.	0.	0.	0.	9.55-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	5.34-10	1.06-08
9.00 01	0.	0.	0.	0.	0.	0.	0.	8.96-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	8.48-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	5.45-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	4.20-10	2.98-09	4.66-09	8.25-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	4.44-09	2.44-08	0.	8.82-09
4.00 01	0.	0.	0.	0.	0.	2.46-09	7.11-09	0.
6.00 01	0.	0.	0.	0.	0.	0.	6.08-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	3.40-10	6.72-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	6.50-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	5.50-09
1.20 02	0.	0.	0.	0.	0.	0.	2.23-13	4.58-09
1.40 02	0.	0.	0.	0.	0.	0.	8.61-13	4.26-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.12-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	2.67-10	1.90-09	2.96-09	6.42-09
	0.	0.	0.	0.	1.89-10	5.47-10	7.11-10	7.70-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.27-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.76-13
1.00 02	0.	0.	0.	0.	0.	0.	0.	7.36-14
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	4.39-12	2.03-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.35-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	5.07-12
	0.	0.	0.	0.	0.	0.	1.17-12	7.43-10
	0.	0.	0.	0.	0.	0.	9.74-13	7.41-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.47-14
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	4.29-15
	0.	0.	0.	0.	0.	0.	0.	4.29-15

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.55-15
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	2.70-16
	0.	0.	0.	0.	0.	0.	0.	2.70-16

2475537264 15 2447725620 35

AIR SCATTERING 4.10 02 ENERGY 7.00 ANGLE 6.00 01 DIST. 6.10 02
2.90 01 1.76 03 0. 0. 4.78 04 5.00 01 1.80 03

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	1.43-08
0.	0.	0.	0.	0.	0.	0.	3.17-09
0.	0.	0.	0.	0.	0.	0.	1.72-09
0.	0.	0.	0.	0.	0.	0.	1.15-09
0.	0.	0.	0.	0.	0.	0.	8.96-10
0.	0.	0.	0.	0.	0.	0.	8.48-10
0.	0.	0.	0.	0.	0.	0.	5.45-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							2.73-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
2.19-09	3.94-11	1.87-11	2.90-10	5.93-12	9.37-16	6.14-28	1.02-08	3.05-09
1.04-10	2.18-10	1.60-10	2.41-10	4.09-11	3.18-13	9.88-24	2.05-09	6.74-10
1.45-09	7.47-11	2.37-10	6.83-11	5.85-11	6.85-13	1.36-19	1.22-09	3.48-10
8.61-10	4.44-10	2.51-10	6.15-11	1.77-11	6.53-12	4.88-21	8.34-10	1.86-10
1.52-09	1.86-10	2.05-10	3.52-11	5.52-12	9.85-14	7.53-24	7.88-10	1.86-10
7.07-10	3.55-10	4.70-10	1.21-10	2.68-11	8.63-13	2.64-25	6.47-10	1.11-10
2.73-10	2.21-10	1.92-10	7.08-11	2.68-11	1.04-13	3.64-21	4.98-10	5.07-11
2.41-10	1.14-10	5.10-10	1.20-10	2.50-11	3.16-13	4.62-23	8.68-11	1.77-11
1.44-10	5.73-11	2.56-10	1.14-10	3.64-11	5.76-14	1.71-23	2.95-11	9.92-12
2.89-11	1.76-11	7.37-11	6.43-11	1.43-10	3.42-14	7.72-24	8.69-12	3.29-12
1.39-09	4.12-10	5.38-10	2.04-10	6.47-11	2.66-12	3.89-20		
4.18-10	8.38-11	1.40-10	4.08-11	2.27-11	1.61-12	3.77-20	2.01-09	2.49-10

PHI 45 TO 90 DEGREES

3.76-12	7.78-11	3.95-10	1.89-11	2.43-11	1.68-14	1.56-26	1.75-11	1.28-11
3.51-12	3.59-11	3.54-11	2.23-11	2.85-12	1.50-14	1.61-28	3.69-12	9.58-13
5.38-11	1.53-10	1.79-10	1.28-10	3.45-11	2.36-14	1.48-24	2.07-11	6.42-12
1.85-10	2.30-10	1.66-10	7.16-11	4.62-12	7.79-14	5.67-24	2.56-10	2.28-10
3.63-11	1.02-09	3.56-11	1.14-10	5.23-11	2.41-13	3.29-23	5.78-11	4.70-11
6.57-10	1.84-10	2.26-10	1.77-10	2.12-11	1.25-13	2.76-20	7.29-11	5.60-11
2.12-10	1.03-10	2.13-10	1.97-10	4.56-11	1.03-11	3.10-23	3.36-11	1.11-11
1.93-10	5.79-11	7.00-11	6.07-11	6.40-12	2.87-12	8.42-25	2.30-11	6.19-12
1.56-10	2.76-11	2.52-11	6.12-11	1.06-10	8.24-13	8.91-25	1.76-11	1.04-11
1.43-11	9.71-11	8.42-11	2.57-11	1.01-11	7.82-14	4.17-24	9.85-12	4.94-12
3.25-10	3.95-10	2.75-10	2.07-10	6.11-11	4.37-12	4.81-21		
9.78-11	1.74-10	6.19-11	6.24-11	1.78-11	3.14-12	3.62-21	1.34-10	7.52-11

PHI 90 TO 135 DEGREES

3.17-11	7.10-11	4.52-10	2.84-11	1.40-11	7.12-14	6.89-21	2.13-11	1.41-11
1.89-13	7.65-11	2.53-11	1.28-10	7.58-12	4.74-14	2.88-29	7.32-12	2.14-12
4.49-12	1.37-09	6.60-11	7.64-11	5.20-12	1.67-14	1.26-26	7.24-11	6.45-11
1.08-10	5.01-11	5.02-11	4.58-11	1.01-11	1.52-13	1.39-27	1.38-11	8.58-12
9.37-10	3.93-11	3.38-11	2.76-11	1.32-11	9.19-13	9.26-27	7.88-11	7.29-11
2.84-11	2.17-11	1.11-10	6.53-11	5.46-10	3.05-12	7.23-19	1.52-11	5.70-12
1.04-10	1.43-11	5.56-11	1.29-10	1.61-10	1.38-11	2.61-25	1.56-11	6.88-12
1.28-11	8.67-12	1.38-10	3.46-10	5.70-11	1.87-15	1.75-29	1.35-11	8.95-12
1.06-11	3.06-11	1.58-10	1.89-10	4.62-10	3.51-14	1.66-23	1.72-11	6.82-12
3.08-11	6.32-11	7.33-10	1.94-11	2.42-10	6.47-15	1.03-25	3.26-11	2.15-11
2.47-10	4.24-10	2.17-10	2.44-10	2.67-10	5.27-12	1.26-19		
1.03-10	3.43-10	5.96-11	9.45-11	1.72-10	4.56-12	1.26-19	5.63-11	2.20-11

PHI 135 TO 180 DEGREES

0.	2.21-10	8.14-12	7.32-11	8.43-14	8.53-15	5.72-27	1.28-11	9.97-12
0.	2.65-10	1.17-11	1.15-11	8.71-12	1.75-14	6.22-25	1.40-11	1.25-11
0.	1.25-10	6.76-11	3.29-11	2.95-11	4.85-12	1.40-20	9.52-12	3.54-12
3.10-12	1.20-10	8.15-11	8.21-11	3.90-11	8.69-13	2.71-24	1.10-11	4.46-12
6.83-14	1.21-10	6.42-12	4.57-11	8.94-12	1.88-14	2.66-24	7.31-12	4.27-12
2.35-14	1.62-10	2.19-11	2.03-11	2.88-11	9.68-16	8.91-27	9.68-12	4.88-12
8.46-12	1.26-11	2.83-11	4.75-11	7.72-12	1.46-15	4.07-22	3.26-12	1.15-12
2.59-11	8.35-11	1.23-11	6.76-11	2.00-11	2.42-15	1.34-28	8.25-12	2.27-12
9.51-14	9.79-11	5.85-11	1.31-10	3.97-11	2.37-14	4.14-23	9.91-12	3.66-12
7.98-11	2.03-11	3.49-11	2.49-10	1.55-11	2.75-14	1.76-25	1.35-11	7.18-12
1.55-11	2.15-10	7.68-11	1.25-10	4.43-11	1.53-12	3.87-21		
7.63-12	6.29-11	2.41-11	4.70-11	1.32-11	1.20-12	3.61-21	1.75-11	3.72-12
							3.48-09	4.34-10

AIR SCATTERING 4.11 02 ENERGY 7.00 ANGLE 9.00 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	0.	3.84-08	0.
4.00 01	0.	0.	0.	0.	0.	0.	6.80-09	7.89-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.09-08
8.00 01	0.	0.	0.	0.	0.	0.	0.	6.88-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.40-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	3.50-09	6.03-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	0.	2.44-08	6.98-09
4.00 01	0.	0.	0.	0.	0.	0.	4.33-09	5.02-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	7.49-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	5.92-09
9.00 01	0.	0.	0.	0.	0.	0.	5.63-13	2.35-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.77-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	8.83-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.05-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.32-14
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	2.23-09	5.70-09
	0.	0.	0.	0.	0.	0.	5.18-10	7.14-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.73-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.02-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.19-20
1.40 02	0.	0.	0.	0.	0.	0.	1.10-12	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.21-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	2.93-13	6.36-12
	0.	0.	0.	0.	0.	0.	2.93-13	5.68-12

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.

2515376 13345 1347601712 35

AIR SCATTERING 4.11 02 ENERGY 7.00 ANGLE 9.00 01 DIST. 6.10 02
2.20 01 1.77 03 0. 0. 4.75 04 5.00 01 1.80 03

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	6.91-09
0.	0.	0.	0.	0.	0.	0.	2.01-09
0.	0.	0.	0.	0.	0.	0.	1.09-09
0.	0.	0.	0.	0.	0.	0.	6.88-10
0.	0.	0.	0.	0.	0.	0.	2.40-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
							1.32-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
6.75-11	5.39-12	9.33-12	2.19-10	7.41-13	2.47-15	7.57-26	5.11-09	1.68-09
3.41-10	1.47-10	6.59-11	2.20-10	1.18-11	4.35-14	1.56-21	1.32-09	3.35-10
4.58-10	4.41-10	2.07-10	8.55-11	1.02-11	8.03-15	2.52-25	8.06-10	1.48-10
5.41-10	4.29-10	1.56-10	1.80-10	8.77-11	2.47-14	5.72-27	6.55-10	8.45-11
3.08-10	2.55-10	1.22-10	7.29-11	8.50-12	1.18-14	2.97-25	2.77-10	2.94-11
1.58-10	1.57-10	4.94-10	3.33-11	2.97-11	1.64-13	1.48-25	6.50-11	1.53-11
2.64-10	1.10-10	2.29-10	1.97-10	1.41-11	4.96-14	5.14-23	4.55-11	1.28-11
1.39-10	7.64-11	5.11-10	2.23-10	2.76-10	1.05-13	8.08-26	4.44-11	1.63-11
2.24-10	2.65-09	1.34-10	1.84-10	1.26-11	2.35-13	6.71-20	1.59-10	1.32-10
9.97-12	2.34-11	9.61-12	9.05-11	1.04-10	7.94-14	9.60-20	5.43-12	2.32-12
6.19-10	7.54-10	4.59-10	2.90-10	1.26-10	1.38-13	1.77-20		
1.18-10	4.58-10	1.35-10	6.58-11	5.64-11	5.13-14	1.74-20	1.08-09	~~1.40-38~~

PHI 45 TO 90 DEGREES

3.54-11	5.61-11	9.97-12	1.23-11	1.44-12	3.31-16	1.22-26	6.22-12	2.84-12
1.46-09	2.01-11	3.39-11	1.32-10	5.06-11	2.22-13	7.53-25	1.22-10	9.07-11
6.72-11	2.34-10	5.36-11	4.49-11	1.30-10	6.41-15	8.02-25	2.14-11	1.10-11
2.85-10	2.76-10	1.85-10	8.03-10	2.01-11	1.84-13	3.45-22	5.90-11	2.15-11
7.98-11	5.29-10	7.35-11	8.08-11	5.74-12	6.89-14	8.73-24	3.73-11	2.11-11
1.60-11	2.41-11	6.91-11	1.03-10	7.29-11	1.75-14	5.56-26	7.71-12	2.29-12
1.60-09	8.15-11	2.00-10	1.32-10	1.06-11	5.43-14	2.69-21	1.41-10	1.21-10
5.23-11	1.92-10	8.29-11	3.62-11	6.89-12	1.73-13	7.27-28	1.74-11	5.89-12
8.28-12	1.07-10	4.26-10	6.71-11	4.38-11	9.47-13	4.50-26	2.16-11	1.31-11
9.60-12	5.87-12	2.15-10	1.85-11	1.33-11	3.08-13	8.72-22	8.49-12	4.16-12
9.10-10	3.52-10	2.80-10	3.95-10	7.75-11	3.62-13	1.05-21		
5.40-10	1.13-10	8.57-11	2.29-10	3.45-11	1.47-13	6.34-22	1.09-10	4.40-11

PHI 90 TO 135 DEGREES

7.84-10	1.44-11	2.81-11	5.14-11	5.08-12	2.04-17	1.05-27	6.54-11	5.01-11
5.39-11	1.53-10	6.20-11	8.63-11	1.77-11	2.94-13	9.69-22	1.59-11	6.27-12
3.05-11	1.50-10	1.36-10	2.21-10	4.15-11	9.09-13	3.42-25	1.93-11	6.36-12
3.86-11	4.11-10	4.51-11	6.73-11	3.69-11	2.97-13	1.05-26	2.69-11	1.18-11
5.46-11	3.68-11	3.94-11	3.89-10	1.76-11	1.24-14	5.72-25	1.63-11	5.99-12
5.91-12	3.12-10	1.68-10	2.71-10	1.36-11	8.06-14	1.98-23	2.70-11	1.50-11
4.81-11	3.09-10	4.38-11	5.20-11	8.75-11	6.54-14	2.32-23	2.29-11	1.18-11
2.99-11	9.51-12	4.00-11	1.19-10	5.33-11	9.95-13	1.68-20	7.24-12	2.17-12
8.23-11	1.86-11	3.76-11	2.49-10	4.60-11	2.26-14	8.89-25	1.43-11	6.06-12
1.24-12	2.76-11	4.24-10	2.48-11	9.69-12	1.58-12	3.98-26	1.57-11	1.04-11
1.28-10	3.70-10	1.56-10	3.07-10	8.32-11	7.91-13	4.65-21		
4.42-11	1.19-10	4.15-11	1.02-10	2.87-11	3.53-13	4.47-21	4.09-11	8.33-12

PHI 135 TO 180 DEGREES

1.00-11	2.38-10	1.03-10	5.53-12	2.58-11	4.03-13	3.90-26	1.64-11	9.20-12
3.59-13	1.86-10	3.92-11	1.84-11	1.34-11	1.50-12	1.44-22	1.11-11	4.76-12
5.31-12	3.25-10	1.20-10	3.46-11	7.86-12	1.70-13	4.36-23	2.13-11	9.37-12
0.	7.01-10	1.99-09	1.24-10	1.70-11	3.37-12	4.43-23	1.01-10	9.08-11
0.	4.82-10	3.16-10	1.55-11	6.63-12	1.21-12	1.17-21	3.46-11	2.13-11
0.	5.23-11	3.81-11	1.23-11	1.72-12	1.95-13	3.50-29	4.10-12	1.86-12
2.15-14	1.18-10	7.85-11	7.98-11	9.33-11	2.58-13	3.59-25	1.12-11	3.77-12
0.	2.57-09	7.00-11	5.69-11	1.36-10	2.75-13	2.77-25	1.34-10	1.25-10
8.19-12	9.38-11	2.00-11	2.45-11	2.47-11	2.43-16	9.28-22	6.80-12	2.82-12
6.61-12	5.92-11	1.18-11	1.40-11	3.07-11	3.23-14	1.44-28	4.54-12	2.33-12
3.00-12	1.20-09	8.04-10	1.04-10	8.58-11	1.83-12	4.16-22		
1.85-12	6.94-10	6.44-10	2.92-11	3.86-11	1.05-12	2.73-22	8.91-11	4.52-11
							2.07-09	2.57-10

AIR SCATTERING 4.12 02 ENERGY 7.00 ANGLE 1.35 02 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	6.60-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.83-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	7.60-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	7.36-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	4.21-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.64-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	8.88-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	5.68-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.43-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	5.64-09
	0.	0.	0.	0.	0.	0.	0.	6.96-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.52-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	7.51-12
6.00 01	0.	0.	0.	0.	0.	0.	0.	9.78-19
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	2.22-12
	0.	0.	0.	0.	0.	0.	0.	1.21-12

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.

234641466631 156412076745

AIR SCATTERING 4.12 02 ENERGY 7.00 ANGLE 1.35 02 DIST. 6.10 02
3.30 01 1.76 03 0. 0. 4.75 04 5.00 01 1.80 03

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	6.60-09
0.	0.	0.	0.	0.	0.	0.	1.83-09
0.	0.	0.	0.	0.	0.	0.	7.60-11
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
							7.36-10

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
2.31-10	1.06-10	8.60-11	6.38-11	9.05-12	2.33-15	4.03-30	4.24-09	8.83-10
4.47-10	1.57-10	8.23-11	7.46-11	8.64-10	1.98-14	1.63-22	1.70-09	2.58-10
2.10-10	3.59-09	1.40-10	9.95-11	1.21-11	2.80-13	1.57-24	2.92-10	1.70-10
2.91-10	8.74-11	9.54-11	3.13-10	8.38-12	1.29-12	5.05-23	4.27-11	1.16-11
1.61-10	5.67-11	1.08-10	6.54-11	2.18-11	2.99-13	6.50-22	2.09-11	1.03-11
1.47-10	1.15-10	5.87-11	6.81-11	3.72-11	1.08-13	3.00-24	2.12-11	7.06-12
5.10-10	4.94-11	5.21-11	1.67-10	1.98-11	1.61-13	9.55-28	4.85-11	3.70-11
1.03-10	2.55-11	1.00-10	7.91-11	3.50-12	1.73-13	1.39-23	1.43-11	6.19-12
3.29-13	2.73-12	1.04-10	1.04-10	2.79-11	5.15-15	8.86-24	5.91-12	2.14-12
0.	1.29-14	7.07-11	1.43-11	3.74-11	1.49-14	1.51-30	3.04-12	1.81-12
4.89-10	1.07-09	1.83-10	2.63-10	1.81-10	6.71-13	1.64-22		
1.66-10	9.05-10	3.00-11	7.16-11	1.47-10	4.24-13	9.11-23	6.70-10	9.37-11

PHI 45 TO 90 DEGREES

9.32-11	7.94-11	3.61-11	1.14-11	3.74-12	5.99-15	3.84-23	1.44-11	4.34-12
1.59-10	2.92-10	7.85-11	1.79-10	1.73-11	2.16-13	6.94-24	3.43-11	1.18-11
9.65-10	2.64-10	8.11-11	5.44-10	2.16-11	1.03-12	1.41-25	1.04-10	5.99-11
3.56-10	1.08-10	3.86-10	3.78-11	1.22-09	7.58-14	6.56-25	6.28-11	2.57-11
5.58-11	5.72-09	4.05-11	1.85-11	9.95-13	5.80-13	9.49-24	2.92-10	2.79-10
3.81-11	8.17-12	9.86-11	2.75-11	9.87-12	2.64-12	2.07-24	7.32-12	3.60-12
8.32-11	3.71-11	1.71-11	1.81-10	2.24-10	8.48-14	1.20-23	1.56-11	4.72-12
1.28-11	1.13-10	2.68-11	4.00-11	3.97-11	1.67-13	3.05-23	8.83-12	3.49-12
3.09-12	1.62-11	2.09-11	4.03-11	7.94-11	2.18-12	0.	3.58-12	1.84-12
1.26-13	1.72-10	4.71-11	2.17-10	1.03-12	2.34-14	1.99-34	1.43-11	8.81-12
4.54-10	1.21-09	2.06-10	2.87-10	5.05-10	1.35-12	1.78-23		
2.64-10	9.71-10	7.63-11	9.53-11	4.04-10	6.39-13	9.53-24	1.16-10	5.34-11

PHI 90 TO 135 DEGREES

3.70-09	1.20-10	8.27-11	3.13-11	2.56-12	3.09-15	1.00-24	3.65-10	1.79-10
1.95-10	8.63-11	4.50-11	7.64-11	5.32-12	2.37-14	2.60-25	2.30-11	1.05-11
5.22-11	3.83-11	1.21-10	1.96-10	6.31-11	5.45-14	2.56-21	1.47-11	4.98-12
5.02-11	3.62-11	1.02-10	4.40-11	8.98-12	5.62-13	3.39-23	1.01-11	3.01-12
1.22-11	7.51-11	2.25-11	6.93-11	1.84-12	2.72-13	1.36-22	6.86-12	3.40-12
9.38-12	8.99-11	1.20-10	2.95-11	1.63-11	5.62-15	2.21-24	9.88-12	3.97-12
1.67-11	7.46-11	8.71-11	2.72-11	7.47-12	2.77-14	2.98-23	8.50-12	3.05-12
3.15-13	1.17-10	9.17-12	4.32-12	2.09-11	2.26-13	1.03-26	6.54-12	2.80-12
2.96-11	1.41-11	3.10-11	5.94-11	5.34-12	2.21-14	5.79-28	5.33-12	2.64-12
0.	8.19-12	6.67-12	1.52-12	1.74-10	9.08-14	1.54-29	2.92-12	2.29-12
3.02-10	1.31-10	1.40-10	1.19-10	4.34-11	3.29-13	7.26-22		
1.38-10	2.84-11	3.98-11	3.86-11	1.81-11	2.30-13	6.81-22	3.81-11	1.14-11

PHI 135 TO 180 DEGREES

6.71-11	1.16-10	7.28-11	3.48-11	7.64-12	4.27-14	1.24-26	1.43-11	4.47-12
4.31-10	2.48-10	4.19-11	8.82-11	3.96-12	3.06-14	5.72-23	5.00-11	3.35-11
1.70-10	5.48-11	7.91-12	2.49-11	6.61-12	3.45-13	1.12-22	1.72-11	1.17-11
3.37-12	9.44-11	3.86-10	2.93-11	1.27-11	1.73-12	1.15-27	1.81-11	1.15-11
5.48-15	1.41-12	1.50-10	2.10-11	6.12-12	1.54-12	1.42-31	5.40-12	3.97-12
1.90-12	3.58-11	3.87-11	3.64-11	1.01-11	2.13-13	1.81-34	4.04-12	1.37-12
7.51-13	8.66-11	4.36-11	7.95-11	4.24-12	5.36-13	1.73-26	7.44-12	3.07-12
0.	6.19-11	2.91-11	1.13-11	3.54-10	2.51-11	3.09-22	9.11-12	4.62-12
3.70-12	7.90-12	2.93-11	3.32-10	1.48-10	2.63-14	6.15-23	1.04-11	6.54-12
0.	6.61-11	5.97-11	1.70-10	1.87-12	4.86-14	4.21-29	8.64-12	4.93-12
1.27-10	1.52-10	2.03-10	1.40-10	1.31-10	7.82-12	1.33-22		
7.98-11	4.29-11	1.18-10	6.47-11	8.81-11	6.65-12	8.59-23	2.88-11	7.95-12
							1.34-09	2.17-10

AIR SCATTERING 4.13 02 ENERGY 7.00 ANGLE 1.80 02 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.9T-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	1.02-07
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	6.15-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	6.59-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	7.13-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	9.70-14
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	4.10-09
	0.	0.	0.	0.	0.	0.	0.	4.88-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.10-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.28-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	7.39-11
	0.	0.	0.	0.	0.	0.	0.	2.69-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.17-15	2.59-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.06-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.00-17
8.00 01	0.	0.	0.	0.	0.	0.	1.76-13	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	5.77-14	1.63-10
	0.	0.	0.	0.	0.	0.	5.76-14	8.86-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.09-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.42-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	9.88-15
8.00 01	0.	0.	0.	0.	0.	0.	0.	6.12-14
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.82-13
1.00 02	0.	0.	0.	0.	0.	0.	0.	5.81-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.31-10
	0.	0.	0.	0.	0.	0.	0.	5.89-11

304604761305 055177274161

AIR SCATTERING 4.13 02 ENERGY 7.00 ANGLE 1.80 02 DIST. 6.10 02
1.20 01 1.78 03 0. 0. 4.74 04 5.00 01 1.80 03

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	1.02-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	6.15-10

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
1.64-10	2.32-10	9.44-10	1.26-10	1.13-11	1.28-15	1.61-25	6.65-09	7.86-10
5.11-10	8.13-11	2.08-10	5.82-11	3.28-11	1.06-13	2.91-24	1.24-10	6.09-11
5.76-10	6.39-10	1.24-10	9.08-11	9.69-12	1.15-13	3.92-26	8.40-11	4.88-11
5.35-11	5.22-11	1.35-10	1.57-10	3.68-10	2.72-12	4.10-24	1.92-11	6.25-12
1.67-10	3.67-11	6.06-11	2.70-11	5.05-10	1.50-13	2.22-28	2.42-11	1.24-11
3.29-11	1.20-10	4.35-10	1.82-10	6.76-11	1.12-14	1.90-30	2.71-11	1.28-11
1.15-10	8.68-11	4.60-11	1.07-10	3.02-11	6.00-14	3.71-26	1.75-11	9.01-12
3.42-12	2.16-10	1.54-11	2.31-10	2.76-11	4.02-14	4.40-23	1.66-11	1.02-11
0.	6.75-11	5.06-11	4.89-10	3.24-11	6.05-13	6.55-29	1.52-11	1.02-11
0.	5.52-12	4.08-12	1.86-10	6.56-12	1.54-12	5.25-31	4.22-12	2.82-12
3.42-10	3.40-10	2.84-10	3.22-10	2.52-10	1.19-12	1.36-23		
1.45-10	1.71-10	8.02-11	1.15-10	2.04-10	8.93-13	1.16-23	4.73-10	5.63-11

PHI 45 TO 90 DEGREES

5.28-10	2.96-10	1.79-10	6.20-10	1.65-10	1.68-14	5.87-24	1.88-10	5.74-11
2.22-10	1.68-10	1.31-10	1.63-10	2.86-11	2.53-15	3.13-22	3.83-11	6.95-12
4.48-10	1.79-10	8.92-11	6.89-11	8.86-11	9.56-14	1.10-24	5.02-11	1.86-11
3.53-10	1.03-10	9.86-11	7.12-11	5.38-12	5.95-12	1.77-25	3.81-11	1.62-11
6.51-10	5.76-11	1.87-09	1.57-10	1.75-11	4.65-14	1.69-26	1.18-10	6.65-11
5.76-11	4.87-11	4.48-11	4.95-11	4.22-10	1.85-13	1.65-20	1.50-11	6.71-12
7.72-12	1.38-10	1.33-10	3.62-11	5.12-10	2.89-12	1.09-22	1.92-11	8.51-12
0.	2.69-10	8.86-11	1.56-11	8.27-11	6.36-14	9.38-26	1.77-11	1.32-11
0.	5.36-10	5.37-11	5.79-11	3.33-10	2.86-13	2.49-24	3.40-11	2.28-11
0.	1.65-10	1.28-12	6.89-12	1.43-11	6.13-14	1.21-33	8.60-12	7.20-12
4.30-10	3.67-10	4.97-10	1.89-10	3.65-10	3.02-12	2.95-21		
1.15-10	1.13-10	3.12-10	4.59-11	2.59-10	2.79-12	2.89-21	8.42-11	1.72-11

PHI 90 TO 135 DEGREES

1.85-10	3.52-10	2.86-10	9.52-11	2.71-11	6.94-13	2.98-28	3.03-10	1.48-10
1.78-10	1.74-10	1.71-10	1.05-10	1.73-11	3.20-14	1.90-24	3.47-11	8.95-12
1.14-10	1.67-10	2.85-11	1.33-10	3.08-11	2.88-12	1.03-25	2.14-11	6.22-12
1.30-10	1.76-10	7.31-11	4.76-11	2.64-11	5.59-13	7.69-25	2.29-11	6.60-12
5.65-11	3.37-10	1.99-11	7.22-11	5.99-12	1.09-12	2.94-27	2.36-11	1.46-11
1.32-10	1.32-11	9.30-11	2.23-11	2.10-11	1.95-14	1.13-23	1.49-11	7.56-12
3.13-11	3.15-10	2.27-11	2.12-11	7.02-12	6.54-15	2.44-27	1.95-11	1.39-11
5.36-12	1.50-11	2.96-11	9.77-12	8.88-12	4.29-14	2.31-24	2.44-12	6.76-13
3.99-13	2.23-09	7.40-11	4.15-10	2.04-12	6.54-15	5.08-27	1.22-10	1.10-10
0.	1.34-10	6.07-11	2.04-11	4.21-12	4.12-16	8.37-26	9.11-12	6.43-12
1.59-10	7.16-10	1.30-10	1.74-10	3.14-11	1.20-12	3.19-24		
3.41-11	3.98-10	2.53-11	7.39-11	8.12-12	8.94-13	2.05-24	7.29-11	2.21-11

PHI 135 TO 180 DEGREES

4.70-10	1.59-10	2.63-10	2.21-10	6.74-12	1.87-15	3.69-25	2.68-10	9.96-11
5.66-10	7.23-11	8.41-11	9.64-11	4.74-11	1.30-12	1.62-26	5.65-11	2.14-11
4.72-11	2.49-11	4.07-11	5.96-11	8.44-11	2.52-14	6.44-25	8.61-12	1.88-12
9.77-11	1.12-09	2.68-10	1.01-10	4.07-11	1.71-11	8.85-27	7.50-11	5.24-11
2.10-12	1.70-11	1.99-10	3.00-11	3.84-12	2.56-14	1.94-30	8.07-12	4.23-12
5.06-11	2.78-11	7.63-11	2.68-11	5.00-11	6.30-14	7.76-28	9.65-12	3.27-12
7.38-12	2.75-11	4.09-11	6.04-11	6.58-12	2.36-14	3.97-23	4.57-12	1.23-12
0.	5.62-11	1.32-11	3.84-11	1.10-11	3.05-14	1.37-26	4.14-12	1.84-12
5.05-14	6.74-10	5.74-11	2.68-11	3.65-12	6.43-15	1.62-26	3.61-11	3.27-11
0.	1.11-10	6.11-11	3.29-11	3.07-12	8.79-17	0.	8.20-12	5.34-12
1.83-10	5.49-10	2.07-10	1.25-10	5.96-11	5.86-12	1.32-23		
4.94-11	3.57-10	7.51-11	2.76-11	2.48-11	5.58-12	9.15-24	6.51-11	1.95-11
							1.09-09	1.27-10

AIR SCATTERING 4.14 02 ENERGY 4.00 ANGLE 1.00 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	7.42-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	1.60-06	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	1.70-06	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	2.30-06	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	1.85-06	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	6.61-06
	4.48-07	2.78-07	4.53-07	0.	0.	7.52-07	3.22-07	3.99-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	4.73-06	0.	0.	0.	0.	1.32-08	0.	0.
4.00 01	0.	1.02-06	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	1.08-06	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	5.62-08	2.27-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.85-12
1.20 02	0.	0.	0.	0.	0.	1.47-06	0.	9.07-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.75-10
1.60 02	0.	0.	0.	0.	0.	0.	1.18-06	4.99-10
1.80 02	0.	0.	0.	0.	0.	3.73-19	7.66-11	4.21-06
	2.85-07	1.77-07	2.89-07	0.	0.	4.79-07	2.15-07	2.54-07
	9.62-08	1.77-07	2.88-07	0.	0.	4.78-07	2.05-07	1.07-07

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.47-12
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.89-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.25-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.17-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.94-10
1.40 02	0.	0.	0.	0.	0.	0.	1.21-14	2.22-10
1.60 02	0.	0.	0.	0.	0.	0.	1.34-11	5.71-10
1.80 02	0.	0.	0.	0.	4.24-14	5.81-14	4.80-10	1.98-08
	0.	0.	0.	0.	2.56-15	3.50-15	3.13-11	1.69-09
	0.	0.	0.	0.	2.56-15	3.50-15	2.79-11	9.95-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.82-12
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	8.96-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.57-09
1.20 02	0.	0.	0.	0.	0.	0.	1.38-10	1.02-10
1.40 02	0.	0.	0.	0.	1.24-13	2.85-11	7.04-14	5.73-10
1.60 02	0.	0.	0.	0.	0.	6.63-12	1.28-11	3.77-10
1.80 02	0.	0.	0.	0.	1.86-14	3.37-11	3.60-10	6.43-09
	0.	0.	0.	0.	3.42-14	1.08-11	6.89-11	2.81-09
	0.	0.	0.	0.	3.31-14	7.84-12	4.68-11	1.68-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	5.37-12
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.84-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.07-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	5.17-11	1.07-11
1.40 02	0.	0.	0.	0.	0.	0.	4.32-11	2.81-09
1.60 02	0.	0.	0.	0.	0.	1.12-13	1.25-11	4.70-10
1.80 02	0.	0.	0.	0.	7.14-13	2.86-12	2.09-12	3.96-09
	0.	0.	0.	0.	4.31-14	1.92-13	3.06-11	1.26-09
	0.	0.	0.	0.	4.31-14	8.86-14	1.64-11	6.19-10

055177274161 307722764721

AIR SCATTERING 4.14 02 ENERGY 4.00 ANGLE 1.00 DIST. 6.10 02
3.20 01 1.75 03 0. 0. 5.10 04 5.00 01 1.80 03

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	1.04-05
0.	0.	0.	0.	0.	0.	0.	1.28-06
0.	0.	0.	0.	0.	0.	0.	1.02-06
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	4.61-07
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.85-07
0.	0.	0.	0.	0.	0.	0.	5.29-07
0.	0.	0.	0.	0.	0.	0.	1.34-06

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
1.35-10	7.79-15	3.00-10	1.15-10	2.01-12	2.44-15	3.11-28	6.62-06	2.23-06
2.81-08	1.30-10	3.47-10	4.33-10	8.51-12	1.42-13	4.64-22	8.16-07	8.14-07
2.17-10	4.22-10	1.03-10	2.76-10	2.05-10	1.10-13	3.21-26	6.51-07	6.50-07
6.16-10	1.36-11	1.94-10	2.11-11	1.49-11	1.67-15	3.23-21	4.26-11	2.76-11
1.19-10	2.33-10	8.70-11	4.84-10	5.15-11	4.34-13	1.51-25	5.67-09	5.64-09
1.68-10	7.37-11	2.21-11	8.93-11	5.88-12	5.35-14	1.15-27	1.48-11	6.86-12
2.18-10	2.59-10	1.75-10	1.70-10	5.27-12	9.05-14	5.45-27	2.93-07	2.93-07
1.80-10	2.65-10	2.60-10	5.72-10	4.11-10	4.67-14	2.43-24	5.41-11	1.25-11
1.06-10	7.23-10	2.91-10	1.91-10	4.02-11	2.56-13	8.35-22	1.18-07	1.18-07
2.28-10	1.31-09	7.38-10	5.37-11	2.78-10	1.02-12	5.23-29	3.37-07	1.41-07
5.36-09	5.52-10	4.10-10	5.06-10	2.06-10	2.87-13	1.28-21		
4.86-09	1.53-10	9.22-11	1.91-10	8.98-11	1.56-13	1.06-21	8.51-07	1.56-38

PHI 45 TO 90 DEGREES

1.09-09	1.74-11	2.50-10	4.19-12	8.04-13	9.95-15	3.85-31	7.23-11	5.67-11
1.87-10	3.63-11	2.34-11	1.52-10	7.72-12	8.47-14	1.37-24	1.44-11	8.52-12
3.49-10	5.60-09	7.41-11	1.23-10	1.16-12	1.66-14	1.69-25	2.26-10	1.99-10
8.84-10	1.83-10	8.83-11	4.36-11	7.39-11	1.52-13	5.19-23	7.85-11	2.86-11
2.50-10	8.67-11	1.46-10	6.71-10	1.61-10	5.35-15	1.68-21	3.54-11	1.29-11
6.90-11	2.33-10	5.99-11	7.78-11	8.57-12	5.02-14	3.22-23	1.09-10	7.80-11
1.13-09	3.35-10	1.65-10	2.06-10	2.27-11	4.01-13	1.24-21	1.03-10	3.92-11
1.85-10	1.85-10	1.14-10	1.91-10	3.55-11	5.90-13	4.91-22	4.15-11	7.93-12
2.01-10	2.38-10	4.59-10	8.72-10	4.60-11	6.29-15	2.80-26	9.23-11	1.88-11
3.35-10	5.22-10	2.03-10	4.13-10	2.97-11	8.83-13	5.07-25	1.69-09	1.30-09
1.01-09	1.84-09	2.79-10	4.98-10	8.19-11	4.21-13	8.49-22		
2.54-10	1.49-09	5.60-11	1.73-10	3.01-11	2.01-13	5.18-22	2.80-10	9.90-11

PHI 90 TO 135 DEGREES

3.08-11	1.34-11	1.69-11	3.08-10	2.76-12	3.69-15	3.81-31	7.39-12	4.88-12
9.47-10	2.51-10	2.22-10	4.55-11	4.80-12	2.23-14	8.75-25	7.19-11	5.60-11
1.69-10	4.15-11	4.06-11	7.76-11	4.39-11	2.83-15	8.60-26	1.44-11	4.78-12
2.34-10	2.00-10	5.40-11	1.07-10	4.56-12	5.19-14	5.22-25	2.42-11	9.81-12
5.42-10	1.78-10	1.19-10	1.35-10	1.26-11	1.35-13	3.83-29	7.61-10	7.17-10
4.24-11	1.43-10	1.72-11	2.89-10	2.26-11	1.70-15	3.08-23	2.98-10	2.80-10
3.79-11	7.13-11	2.97-10	1.24-10	5.28-11	1.81-14	3.87-24	3.64-11	1.86-11
9.35-11	2.26-09	3.57-10	1.64-10	8.64-11	2.68-14	4.07-23	1.51-10	7.88-11
1.67-10	5.12-10	5.56-10	1.45-10	3.16-11	1.24-12	8.58-23	7.71-11	1.81-11
5.23-10	9.88-11	2.64-10	1.69-11	9.98-12	6.72-13	2.90-22	5.99-10	2.64-10
4.87-10	8.96-10	3.96-10	2.66-10	6.66-11	3.14-13	5.02-23		
1.85-10	5.60-10	8.64-11	6.22-11	2.12-11	1.89-13	2.27-23	3.10-10	1.37-10

PHI 135 TO 180 DEGREES

2.03-10	9.81-11	1.17-10	5.52-10	1.94-11	3.66-16	1.01-28	1.87-11	1.02-11
5.79-10	9.61-11	2.49-11	3.82-11	2.66-12	5.33-14	1.09-23	3.98-11	2.11-11
4.65-09	1.35-10	2.83-10	4.65-10	5.11-12	1.52-14	6.90-24	2.97-10	1.93-10
1.95-10	1.39-10	9.17-11	3.00-11	3.32-12	3.98-14	9.61-21	1.94-11	5.86-12
6.70-10	1.02-10	2.17-10	7.88-11	4.28-11	9.07-14	6.30-22	1.36-10	8.90-11
2.77-10	9.19-11	1.76-10	1.30-11	8.05-11	5.10-14	1.99-26	2.53-11	8.36-12
4.84-10	1.94-10	2.67-10	7.31-11	7.93-12	3.59-15	1.06-25	4.96-11	1.78-11
8.91-11	4.02-10	1.30-10	8.35-11	1.18-11	1.42-12	8.50-22	2.52-10	1.76-10
1.26-10	1.88-10	3.59-10	2.40-10	1.52-10	3.77-12	2.51-22	6.73-11	1.63-11
2.29-10	8.38-10	5.19-10	2.53-10	1.38-11	2.89-12	1.53-21	3.78-10	1.14-10
1.79-09	3.91-10	3.95-10	2.59-10	5.84-11	1.26-12	3.61-21		
8.64-10	6.94-11	1.01-10	8.49-11	2.90-11	1.02-12	3.15-21	2.39-10	7.21-11
							1.34-06	4.37-07

AIR SCATTERING 4.15 02 ENERGY 4.00 ANGLE 1.50 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	1.19-07	2.47-07	6.59-08	0.	0.	0.	0.	0.
4.00 01	0.	0.	4.66-08	5.21-08	0.	0.	0.	0.
6.00 01	0.	0.	0.	2.20-08	4.94-08	0.	0.	0.
8.00 01	0.	0.	0.	0.	1.24-08	4.09-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	4.17-08	0.	0.
1.00 02	0.	0.	0.	0.	0.	1.80-08	3.23-08	0.
1.20 02	0.	0.	0.	0.	0.	0.	7.09-08	0.
1.40 02	0.	0.	0.	0.	0.	0.	7.13-08	0.
1.60 02	0.	0.	0.	0.	0.	0.	4.95-09	1.17-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	4.47-08
	7.16-09	1.49-08	.21-08	1.49-08	1.72-08	2.37-08	4.86-08	2.30-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	7.56-08	1.57-07	4.20-08	0.	0.	0.	0.	0.
4.00 01	0.	0.	2.97-08	3.32-08	0.	0.	0.	0.
6.00 01	0.	0.	0.	1.40-08	3.15-08	0.	0.	0.
8.00 01	0.	0.	0.	0.	7.87-09	2.61-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	2.66-08	0.	1.18-11
1.00 02	0.	0.	0.	0.	0.	1.14-08	2.06-08	2.52-09
1.20 02	0.	0.	0.	0.	0.	0.	4.51-08	7.04-10
1.40 02	0.	0.	0.	0.	0.	0.	4.54-08	1. 3-08
1.60 02	0.	0.	0.	0.	0.	1.22-10	3.26-09	8.01-08
1.80 02	0.	0.	0.	0.	0.	1.72-10	2.49-10	5.08-08
	4.56-09	9.50-09	7.68-09	9.49-09	1.09-08	1.51-08	3.10-08	2.07-08
	1.32-09	2.86-09	3.13-09	4.24-09	5.47-09	6.22-09	7.96-09	3.58-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.44-12
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.25-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.12-10
1.20 02	0.	0.	0.	0.	0.	0.	1.66-12	2.76-09
1.40 02	0.	0.	0.	0.	0.	0.	1.57-12	1.68-09
1.60 02	0.	0.	0.	0.	0.	0.	4.55-11	5.13-10
1.80 02	0.	0.	0.	0.	0.	0.	8.02-11	7.73-09
	0.	0.	0.	0.	0.	0.	1.37-11	2.16-09
	0.	0.	0.	0.	0.	0.	7.06-12	9.85-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.85-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	6.26-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.19-13
1.00 02	0.	0.	0.	0.	0.	0.	0.	5.68-13
1.20 02	0.	0.	0.	0.	0.	5.29-13	2.79-15	6.56-11
1.40 02	0.	0.	0.	0.	0.	3.57-17	4.70-12	2.26-10
1.60 02	0.	0.	0.	0.	0.	2.10-12	2.16-12	5.83-10
1.80 02	0.	0.	0.	0.	0.	4.23-13	2.11-10	1.78-09
	0.	0.	0.	0.	0.	5.63-13	1.44-11	1.05-09
	0.	0.	0.	0.	0.	3.15-13	1.02-11	7.65-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.65-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.28-12
1.40 02	0.	0.	0.	0.	0.	0.	1.08-10	6.22-11
1.60 02	0.	0.	0.	0.	0.	5.30-13	8.46-13	1.21-09
1.80 02	0.	0.	0.	0.	0.	0.	4.53-12	3.42-10
	0.	0.	0.	0.	0.	9.20-14	2.91-11	2.49-10
	0.	0.	0.	0.	0.	8.66-14	2.86-11	1.43-10

372025023515 301356774415

AIR SCATTERING 4.15 02 ENERGY 4.00 ANGLE 1.50 01 DIST. 6.10 02
2.70 01 1.76 03 0. 0. 5.04 04 5.00 01 1.80 03

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	4.04-07
0.	0.	0.	0.	0.	0.	0.	4.88-08
0.	0.	0.	0.	0.	0.	0.	2.12-08
0.	0.	0.	0.	0.	0.	0.	1.13-08
0.	0.	0.	0.	0.	0.	0.	8.34-09
0.	0.	0.	0.	0.	0.	0.	6.82-09
0.	0.	0.	0.	0.	0.	0.	7.09-09
0.	0.	0.	0.	0.	0.	0.	7.13-09
0.	0.	0.	0.	0.	0.	0.	9.83-09
0.	0.	0.	0.	0.	0.	0.	3.58-09
0.	0.	0.	0.	0.	0.	0.	5.09-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
1.70-11	0.	9.17-12	2.99-11	6.14-11	1.50-13	1.37-22	2.57-07	5.17-08
2.49-10	5.22-11	9.92-11	1.23-10	1.28-11	2.22-16	1.03-23	3.11-08	1.17-08
2.36-10	4.96-11	1.67-10	2.25-11	3.62-12	5.07-14	2.38-24	1.35-08	6.02-09
4.76-10	1.10-10	2.88-11	8.57-11	1.08-11	3.36-13	2.42-20	7.21-09	3.59-09
2.22-10	1.82-10	1.96-10	8.73-12	1.12-11	8.80-16	4.30-21	5.34-09	3.76-09
6.95-10	1.37-09	1.91-10	9.52-11	1.65-11	4.67-14	2.13-22	4.64-09	3.08-09
7.06-10	2.31-10	1.72-10	5.18-11	3.74-11	2.01-14	9.49-22	4.62-09	1.87-09
6.49-10	9.95-10	1.15-10	3.27-10	8.73-12	3.19-15	1.10-24	5.53-09	1.74-09
6.22-10	6.63-10	2.74-10	8.39-11	1.97-11	2.38-14	9.28-21	6.83-09	9.72-10
2.55-10	7.34-10	1.48-10	3.90-11	1.33-11	2.03-15	9.48-31	4.17-09	1.20-09
9.48-10	8.27-10	2.82-10	1.96-10	3.40-11	1.52-13	1.06-20		
2.17-10	2.79-10	6.76-11	8.00-11	1.02-11	7.99-14	8.76-21	3.30-08	4.34-09

PHI 45 TO 90 DEGREES

7.24-12	4.78-12	5.13-11	2.43-11	5.84-15	7.15-19	2.14-26	2.20-12	1.23-12
4.69-09	4.30-10	1.44-10	3.29-11	4.61-11	7.17-14	4.21-29	3.01-10	2.38-10
6.97-10	4.57-11	4.79-10	5.89-10	1.09-11	1.72-14	4.67-27	6.39-11	2.45-11
1.73-10	3.29-10	7.73-11	6.59-11	6.40-12	6.25-14	1.17-24	2.52-11	1.01-11
3.47-11	1.75-10	7.05-11	1.08-10	4.55-12	2.56-14	1.90-23	1.12-10	9.86-11
1.77-10	1.94-10	1.86-10	3.03-10	6.92-12	2.96-14	3.04-29	4.36-11	1.79-11
2.48-10	1.34-10	1.49-10	5.57-11	9.67-12	1.15-14	1.41-23	2.45-10	1.97-10
1.66-10	2.65-10	4.23-10	9.81-11	2.03-10	8.42-16	4.12-24	1.68-10	1.05-10
2.80-10	3.06-10	1.15-10	4.15-11	1.08-11	5.59-14	6.61-27	7.69-11	1.66-11
9.22-10	6.64-11	2.28-10	7.39-11	1.87-11	3.81-15	1.62-28	6.91-10	5.07-10
1.32-09	4.30-10	4.20-10	3.12-10	7.52-11	6.09-14	9.37-24		
6.99-10	1.01-10	1.11-10	1.20-10	4.92-11	2.58-14	5.92-24	2.84-10	8.04-11

PHI 90 TO 135 DEGREES

1.81-09	0.	2.28-11	1.04-10	1.04-11	1.83-14	8.54-28	1.11-10	9.70-11
6.44-11	3.38-11	5.22-11	1.25-11	1.94-12	6.70-15	3.97-25	5.95-12	2.42-12
2.03-10	1.42-10	1.34-10	2.54-11	1.05-12	6.10-15	8.55-25	2.49-10	2.28-10
2.00-10	6.63-10	2.30-10	4.49-10	1.21-11	9.87-15	1.17-20	4.83-11	2.40-11
7.19-11	6.75-11	3.73-11	3.02-11	2.66-12	3.89-14	9.53-22	8.16-12	2.52-12
2.57-10	2.52-10	5.01-11	4.14-11	3.32-11	3.83-14	1.17-24	2.67-11	7.21-12
5.47-10	1.89-10	3.66-09	6.94-10	5.60-11	4.96-14	6.75-25	1.44-10	8.39-11
1.40-09	4.17-10	5.60-10	8.06-11	2.11-11	1.46-13	6.32-22	1.32-10	5.26-11
1.59-10	4.85-10	3.00-10	9.70-11	1.76-11	4.11-14	4.51-26	8.31-11	3.64-11
7.96-11	2.52-10	1.98-10	4.80-10	1.24-10	2.59-14	3.14-28	1.91-10	9.90-11
8.78-10	5.88-10	1.54-09	4.68-10	4.59-11	8.41-14	4.17-21		
2.87-10	2.20-10	1.09-09	1.58-10	1.62-11	3.96-14	4.00-21	2.04-10	6.93-11

PHI 135 TO 180 DEGREES

1.65-10	1.19-10	5.83-11	6.59-11	3.09-13	1.20-18	1.87-25	1.66-11	6.83-12
6.43-10	3.50-10	2.09-11	3.03-10	4.26-12	2.91-16	1.41-24	5.63-11	3.21-11
8.57-11	3.11-10	1.43-10	4.73-11	7.27-12	1.97-14	1.04-23	2.06-11	9.07-12
1.09-10	1.36-10	3.11-10	1.73-10	1.63-11	1.78-15	2.99-24	2.17-11	8.14-12
8.18-10	6.89-11	2.14-10	4.74-11	3.06-12	3.36-16	6.77-18	5.77-11	3.72-11
2.05-10	8.15-11	9.15-11	2.45-11	3.77-11	7.50-13	2.55-21	1.82-11	8.81-12
3.56-10	1.10-10	1.48-10	1.47-10	1.84-11	4.75-15	2.40-24	3.15-11	1.20-11
2.75-10	8.08-10	6.16-10	4.05-11	1.11-10	2.74-13	1.16-21	7.81-11	3.40-11
1.83-10	1.14-10	4.61-10	4.09-11	4.72-11	3.94-13	3.72-23	1.25-10	6.66-11
2.77-10	5.04-10	6.58-11	3.42-11	3.07-11	2.00-14	3.17-26	6.50-11	2.18-11
5.95-10	5.22-10	4.96-10	2.06-10	6.08-11	2.80-13	1.18-18		
1.59-10	2.32-10	1.72-10	6.98-11	2.96-11	1.85-13	1.17-18	9.31-11	1.01-11
							5.27-08	6.86-09

AIR SCATTERING 4.16 02 ENERGY 4.00 ANGLE 3.00 01 DIST. 6.10 02
1.25-03 1.07-02 5.20 01 1.91-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	1.92-08	1.06-07	3.98-08	0.	0.	0.	0.
4.00 01	0.	0.	0.	2.70-08	2.72-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	1.64-08	1.83-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	2.08-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	4.05-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	3.02-08	0.
1.20 02	0.	0.	0.	0.	0.	0.	3.12-08	0.
1.40 02	0.	0.	0.	0.	0.	0.	1.12-08	2.74-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.66-08
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	1.16-09	6.37-09	7.08-09	9.10-09	1.16-08	2.54-08	1.02-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	1.22-08	6.72-08	2.53-08	0.	0.	0.	0.
4.00 01	0.	0.	0.	1.72-08	1.73-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	1.05-08	1.16-08	0.	3.16-11
8.00 01	0.	0.	0.	0.	0.	1.32-08	0.	1.33-09
9.00 01	0.	0.	0.	0.	0.	0.	2.58-08	6.18-09
1.00 02	0.	0.	0.	0.	0.	0.	1.92-08	5.87-11
1.20 02	0.	0.	0.	0.	0.	0.	1.98-08	5.62-09
1.40 02	0.	0.	0.	0.	0.	0.	9.80-09	2.55-08
1.60 02	0.	0.	0.	0.	5.10-13	1.72-12	1.81-10	1.29-08
1.80 02	0.	0.	0.	0.	0.	1.34-13	7.41-13	3.46-10
	0.	7.38-10	4.05-09	4.51-09	5.80-09	7.41-09	1.69-08	1.24-08
	0.	4.26-10	1.17-09	1.50-09	2.05-09	2.25-09	3.12-09	2.37-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	8.91-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.03-12
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.83-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.90-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	9.72-10
1.40 02	0.	0.	0.	0.	0.	0.	6.95-14	2.21-10
1.60 02	0.	0.	0.	0.	0.	8.88-12	5.20-12	5.30-10
1.80 02	0.	0.	0.	0.	0.	8.98-13	2.77-12	2.33-10
	0.	0.	0.	0.	0.	1.60-12	1.09-12	7.27-10
	0.	0.	0.	0.	0.	1.52-12	8.82-13	3.48-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	6.47-12
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.29-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.55-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.43-10
1.60 02	0.	0.	0.	0.	0.	2.36-14	1.33-16	2.75-10
1.80 02	0.	0.	0.	0.	0.	1.40-13	0.	8.37-10
	0.	0.	0.	0.	0.	1.25-14	2.32-17	1.44-10
	0.	0.	0.	0.	0.	9.31-15	2.32-17	4.75-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.30-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.91-12
1.20 02	0.	0.	0.	0.	0.	0.	9.30-11	2.89-12
1.40 02	0.	0.	0.	0.	0.	0.	7.77-12	8.69-11
1.60 02	0.	0.	0.	0.	0.	0.	1.11-11	2.04-10
1.80 02	0.	0.	0.	0.	0.	0.	6.85-13	4.50-10
	0.	0.	0.	0.	0.	0.	3.44-11	9.29-11
	0.	0.	0.	0.	0.	0.	3.04-11	4.52-11

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AIR SCATTERING 4.16 02 ENERGY 4.00 ANGLE 3.00 01 DIST. 6.10 02
3.40 01 1.76 03 0. 0. 5.05 04 5.00 01 1.80 03

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	9.46-08
0.	0.	0.	0.	0.	0.	0.	1.76-08
0.	0.	0.	0.	0.	0.	0.	7.77-09
0.	0.	0.	0.	0.	0.	0.	4.15-09
0.	0.	0.	0.	0.	0.	0.	4.05-09
0.	0.	0.	0.	0.	0.	0.	3.02-09
0.	0.	0.	0.	0.	0.	0.	3.12-09
0.	0.	0.	0.	0.	0.	0.	3.30-09
0.	0.	0.	0.	0.	0.	0.	1.33-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.55-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
4.78-11	3.46-10	5.81-11	5.26-12	6.89-10	5.47-14	6.62-36	6.03-08	1.41-08
7.63-10	8.95-10	2.52-10	1.45-11	3.20-10	2.62-17	1.02-18	1.13-08	3.53-09
1.93-10	1.47-10	2.77-09	6.23-11	6.39-11	6.14-13	3.16-26	5.03-09	1.75-09
8.43-10	1.94-10	6.22-11	4.20-11	4.63-11	4.66-15	2.28-24	2.81-09	1.01-09
7.29-11	8.16-11	4.98-11	6.51-11	1.97-10	4.65-14	2.70-26	3.08-09	1.26-09
1.09-10	8.88-11	7.24-11	1.88-09	1.34-11	4.59-14	6.24-25	1.96-09	8.61-10
3.16-10	2.40-09	2.58-10	1.89-10	5.43-11	7.28-14	6.98-21	2.55-09	6.68-10
4.27-10	5.71-10	2.05-10	1.45-10	7.03-11	4.07-15	4.90-25	3.07-09	4.91-10
1.67-10	2.62-10	4.29-10	3.85-10	7.33-12	4.76-13	6.96-24	1.08-09	8.44-11
1.06-10	8.32-11	1.35-10	4.73-11	1.49-11	2.09-15	3.18-27	4.13-11	9.96-12
7.45-10	1.26-09	1.05-09	5.34-10	2.04-10	2.92-13	1.79-19		
1.93-10	6.92-10	7.23-10	3.17-10	1.02-10	1.82-13	1.77-19	1.06-08	1.25-09

PHI 45 TO 90 DEGREES

4.69-09	4.48-11	1.58-11	7.50-11	3.06-12	7.50-16	2.36-25	2.85-10	2.49-10
1.74-10	3.70-12	8.44-11	3.50-11	6.36-12	2.83-16	9.78-20	1.32-11	7.28-12
2.70-10	1.64-10	1.77-09	1.95-10	4.48-11	5.37-15	8.45-26	1.39-10	8.23-11
5.34-10	3.87-10	3.70-10	6.14-10	6.44-12	2.19-15	2.63-24	6.44-11	2.47-11
7.05-10	3.64-10	1.26-10	3.13-10	2.87-11	1.05-13	2.72-22	6.36-11	3.64-11
1.47-10	3.27-10	1.40-10	4.48-11	2.08-11	5.52-15	2.71-27	2.80-11	9.97-12
6.26-11	2.05-10	7.96-11	1.39-10	8.27-11	6.31-14	2.88-22	9.57-11	6.17-11
1.54-10	1.00-09	2.57-10	2.04-10	1.60-11	1.97-14	9.18-24	7.25-11	3.53-11
5.04-10	9.35-10	9.62-11	3.04-10	1.68-11	8.53-14	1.93-25	1.04-10	3.61-11
8.85-11	7.45-11	7.86-11	7.73-11	4.66-11	1.55-15	1.68-25	3.07-11	1.36-11
8.37-10	7.94-10	7.70-10	4.82-10	6.09-11	6.22-14	1.71-20		
2.96-10	3.12-10	4.56-10	1.58-10	2.65-11	2.62-14	1.70-20	1.64-10	4.09-11

PHI 90 TO 135 DEGREES

1.16-09	5.05-10	1.84-11	5.57-13	1.34-10	1.30-15	1.96-26	8.99-11	6.24-11
1.82-09	1.29-10	7.74-11	1.04-11	4.22-12	3.76-14	6.61-24	1.16-10	1.05-10
1.03-09	1.38-10	2.60-11	1.76-11	6.50-11	4.95-14	3.54-20	6.86-11	3.77-11
1.90-10	1.37-10	1.76-10	5.89-11	7.16-12	3.27-13	4.70-26	2.21-11	7.57-12
8.39-11	7.16-11	6.24-11	6.95-10	3.56-12	1.92-13	3.12-27	1.84-11	8.22-12
3.14-10	8.80-11	1.82-10	1.05-10	3.77-11	7.41-14	1.71-25	2.87-11	1.54-11
3.35-10	5.03-11	1.63-10	1.76-10	9.09-11	5.80-14	2.51-25	3.08-11	1.51-11
1.94-10	3.61-10	2.22-10	1.66-10	3.76-11	7.10-14	9.59-24	4.44-11	1.55-11
2.77-10	4.17-11	2.59-10	1.05-10	9.79-11	2.33-14	3.20-24	4.91-11	1.91-11
4.29-10	1.95-10	7.24-11	3.31-10	2.83-11	7.76-16	3.09-21	1.07-10	4.67-11
1.02-09	2.93-10	2.83-10	3.04-10	9.40-11	2.15-13	9.60-21		
4.83-10	6.30-11	5.92-11	9.65-11	3.82-11	8.55-14	9.34-21	9.59-11	2.97-11

PHI 135 TO 180 DEGREES

1.44-10	3.61-10	1.78-10	6.54-11	7.51-12	4.44-14	1.34-25	2.70-11	1.59-11
1.48-11	9.08-10	8.42-11	3.02-11	4.88-12	2.07-11	1.73-24	3.63-11	3.24-11
8.41-11	5.02-11	6.72-10	1.53-10	2.16-12	3.33-15	1.97-26	2.53-11	1.23-11
1.98-10	3.11-10	1.15-09	5.61-11	1.31-11	9.65-12	5.39-22	5.19-11	2.87-11
7.19-11	8.14-11	6.04-11	5.56-11	3.45-12	2.69-14	4.10-25	1.22-11	4.32-12
1.27-11	1.72-10	1.52-10	4.32-11	4.87-11	1.86-13	3.89-23	1.21-11	4.33-12
1.59-10	2.36-10	9.14-11	1.01-10	2.21-11	1.96-12	1.57-21	3.16-11	1.22-11
3.44-10	1.41-10	2.12-10	1.90-10	6.36-11	3.49-14	5.29-21	4.21-11	1.50-11
1.97-10	5.03-10	2.65-10	4.25-10	1.96-11	2.06-13	1.25-22	6.04-11	2.03-11
1.83-11	1.64-10	9.04-11	2.39-10	7.09-11	7.55-15	4.03-28	4.96-11	2.55-11
2.92-10	5.50-10	7.55-10	2.57-10	4.70-11	7.47-12	2.12-21		
7.68-11	2.52-10	3.87-10	7.16-11	1.72-11	6.85-12	1.93-21	7.08-11	1.53-11
							1.71-08	1.99-09

AIR SCATTERING 4.17 02 ENERGY 4.00 ANGLE 6.00 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	8.03-08	7.05-09	0.	0.
4.00 01	0.	0.	0.	0.	0.	2.77-08	0.	0.
6.00 01	0.	0.	0.	0.	0.	6.50-09	1.39-08	0.
8.00 01	0.	0.	0.	0.	0.	0.	1.89-08	0.
9.00 01	0.	0.	0.	0.	0.	0.	1.56-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	9.08-09	6.21-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.12-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	4.84-09	6.97-09	1.42-08	4.74-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	5.11-08	4.49-09	0.	0.
4.00 01	0.	0.	0.	0.	0.	1.76-08	0.	0.
6.00 01	0.	0.	0.	0.	0.	4.14-09	8.84-09	2.75-11
8.00 01	0.	0.	0.	0.	0.	0.	1.21-08	8.25-10
9.00 01	0.	0.	0.	0.	0.	0.	9.91-09	2.41-09
1.00 02	0.	0.	0.	0.	0.	0.	6.99-09	5.64-09
1.20 02	0.	0.	0.	0.	0.	0.	5.71-12	9.10-09
1.40 02	0.	0.	0.	0.	0.	4.34-15	1.63-10	1.39-09
1.60 02	0.	0.	0.	0.	0.	0.	2.47-12	7.63-10
1.80 02	0.	0.	0.	0.	0.	0.	2.08-12	8.06-11
	0.	0.	0.	0.	3.08-09	4.43-09	9.27-09	5.15-09
	0.	0.	0.	0.	8.53-10	9.96-10	1.30-09	4.95-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.63-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.97-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.09-10
1.20 02	0.	0.	0.	0.	0.	0.	8.11-12	4.25-10
1.40 02	0.	0.	0.	0.	0.	1.54-13	0.	1.78-10
1.60 02	0.	0.	0.	0.	0.	3.04-12	3.44-13	1.52-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	4.38-11
	0.	0.	0.	0.	0.	5.68-13	2.71-12	4.74-10
	0.	0.	0.	0.	0.	5.68-13	2.10-12	1.51-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.06-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.66-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.92-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.41-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.20-11
1.60 02	0.	0.	0.	0.	0.	0.	1.21-13	3.91-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	7.66-12
	0.	0.	0.	0.	0.	0.	2.10-14	2.65-10
	0.	0.	0.	0.	0.	0.	2.10-14	1.92-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.24-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.69-11
1.80 02	0.	0.	0.	0.	0.	0.	1.81-13	4.12-11
	0.	0.	0.	0.	0.	0.	1.09-14	7.49-12
	0.	0.	0.	0.	0.	0.	1.09-14	5.20-12

13476017 1235 13652143 6575

AIR SCATTERING 4.17 02 ENERGY 4.00 ANGLE 6.00 01 DIST. 6.10 02
2.60 01 1.76 03 0. 0. 5.02 04 5.00 01 1.80 03

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	2.15-08
0.	0.	0.	0.	0.	0.	0.	5.54-09
0.	0.	0.	0.	0.	0.	0.	2.69-09
0.	0.	0.	0.	0.	0.	0.	1.89-09
0.	0.	0.	0.	0.	0.	0.	1.56-09
0.	0.	0.	0.	0.	0.	0.	1.40-09
0.	0.	0.	0.	0.	0.	0.	8.98-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	4.40-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
1.06-10	1.62-11	1.06-11	9.82-11	9.23-13	6.51-15	8.66-36	1.37-08	3.65-09
5.04-10	1.91-10	6.41-11	3.00-11	5.21-11	2.29-12	4.38-26	3.57-09	9.79-10
6.14-10	5.53-11	1.68-10	1.47-10	3.22-11	6.31-15	6.03-25	1.76-09	4.60-10
1.63-10	1.27-10	2.44-10	1.69-10	1.91-11	2.86-14	9.12-23	1.30-09	2.71-10
1.69-10	6.02-10	1.26-10	6.61-11	2.52-11	9.27-14	1.69-25	1.22-09	2.68-10
3.98-10	3.20-10	7.32-11	3.81-11	1.46-11	2.63-13	4.10-25	1.19-09	2.09-10
4.68-10	3.79-10	5.93-10	2.06-10	1.13-11	1.95-14	5.39-23	7.88-10	6.30-11
1.15-10	1.40-10	9.59-11	3.88-11	8.13-11	4.06-15	7.66-24	1.44-10	3.97-11
1.68-10	2.36-10	6.46-10	1.20-10	2.40-11	2.16-15	1.87-26	9.75-11	3.10-11
5.46-12	5.00-11	2.76-11	1.64-10	1.29-12	6.35-12	3.81-27	1.20-11	5.84-12
6.22-10	4.55-10	5.03-10	2.31-10	6.04-11	8.61-13	4.97-23		
1.67-10	9.72-11	1.93-10	6.59-11	1.97-11	5.52-13	2.83-23	3.07-09	3.20-10

PHI 45 TO 90 DEGREES

5.47-11	1.34-11	1.53-10	2.77-12	1.06-12	9.14-12	4.94-26	7.56-12	3.49-12
2.09-10	2.82-10	8.21-11	2.06-10	1.94-12	3.37-16	2.10-24	2.78-11	1.32-11
8.04-10	3.07-10	8.10-11	8.00-11	3.89-12	2.53-15	9.60-26	6.25-11	3.46-11
9.58-11	1.60-10	1.71-10	2.99-11	5.87-12	1.46-14	3.64-25	4.52-11	2.15-11
6.36-10	6.05-11	6.50-10	2.40-10	3.24-11	1.03-15	4.39-28	1.08-10	4.57-11
3.16-10	5.29-11	7.65-11	1.33-10	2.26-11	2.00-13	9.36-27	4.17-11	1.03-11
3.85-10	1.30-10	8.97-11	3.25-10	2.72-11	9.59-15	1.16-24	7.00-11	2.59-11
2.27-10	3.12-09	1.99-10	9.14-11	3.69-11	8.37-14	5.85-22	1.47-10	1.09-10
4.88-11	2.35-10	9.73-11	1.65-10	4.30-11	3.95-14	1.58-22	2.95-11	8.51-12
1.86-11	2.21-10	2.95-11	6.19-11	1.47-11	7.33-13	6.22-27	1.44-11	5.95-12
6.46-10	1.13-09	3.28-10	2.95-10	4.00-11	6.68-13	1.84-22		
1.89-10	8.03-10	7.62-11	1.13-10	1.37-11	5.54-13	1.13-22	1.30-10	3.44-11

PHI 90 TO 135 DEGREES

6.20-11	4.28-11	5.40-11	1.25-10	1.70-12	3.99-13	6.34-24	8.45-12	2.45-12
4.36-10	1.18-10	5.51-11	2.73-10	3.31-12	9.38-15	5.97-27	1.21-10	8.67-11
4.90-10	2.27-09	1.44-10	1.88-10	9.86-12	6.75-15	7.63-26	1.18-10	6.31-11
1.64-10	9.09-12	2.95-09	3.35-11	3.94-12	1.45-12	3.93-25	8.16-11	5.54-11
1.25-10	3.00-10	2.90-11	2.20-11	1.02-11	2.45-14	1.86-19	1.97-11	9.67-12
1.55-10	1.70-10	4.70-11	3.23-11	2.62-11	5.24-16	5.38-24	1.76-11	4.74-12
3.22-10	2.38-10	1.37-10	5.31-11	6.11-12	5.20-14	2.63-26	3.31-11	1.03-11
3.26-10	6.92-11	2.02-10	1.79-09	1.06-11	1.15-14	4.84-28	5.56-11	3.23-11
4.08-11	1.04-10	3.77-11	6.42-11	5.38-11	6.49-14	3.38-22	4.00-11	2.22-11
1.16-09	1.65-10	2.07-10	4.90-10	2.25-13	1.01-14	1.39-29	8.87-11	6.93-11
5.81-10	8.36-10	1.15-09	6.60-10	2.51-11	5.37-13	3.23-20		
1.54-10	4.51-10	7.47-10	4.67-10	1.01-11	4.70-13	3.22-20	1.24-10	3.93-11

PHI 135 TO 180 DEGREES

2.57-10	3.99-10	2.01-10	2.59-11	2.26-12	2.37-17	1.60-24	3.50-11	1.76-11
2.32-09	5.33-11	4.49-11	1.47-10	8.79-12	2.91-15	2.41-29	1.44-10	1.32-10
4.31-11	2.34-12	1.59-10	9.27-12	4.27-12	1.82-13	1.33-23	6.67-12	2.92-12
2.95-10	3.29-11	6.10-11	5.97-11	1.36-11	7.71-13	1.67-23	2.14-11	1.03-11
4.83-11	4.05-11	3.02-09	9.64-11	2.18-12	2.16-13	2.21-29	7.89-11	7.08-11
3.80-11	7.94-10	1.04-09	3.96-10	2.91-11	8.41-14	3.15-23	6.21-11	2.99-11
7.44-10	8.70-10	2.91-11	1.84-09	9.49-13	8.56-15	1.82-19	1.04-10	4.63-11
2.31-10	1.48-10	2.05-10	5.44-11	9.07-11	1.53-12	4.17-21	2.56-11	1.08-11
1.30-11	3.70-11	1.10-10	2.92-10	1.22-12	1.02-12	3.66-24	1.13-11	4.66-12
2.75-10	9.09-11	2.40-11	8.43-12	1.95-11	4.40-14	5.81-27	2.41-11	1.45-11
8.63-10	5.25-10	8.76-10	8.00-10	2.79-11	9.44-13	6.05-20		
4.10-10	2.87-10	5.28-10	6.02-10	9.65-12	6.55-13	5.96-20	1.05-10	3.46-11
							5.38-09	5.33-10

AIR SCATTERING 4.18 02 ENERGY 4.00 ANGLE 9.00 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	0.	5.43-08	6.38-09	0.
4.00 01	0.	0.	0.	0.	0.	0.	3.31-08	0.
6.00 01	0.	0.	0.	0.	0.	0.	1.77-08	0.
8.00 01	0.	0.	0.	0.	0.	0.	4.10-09	9.31-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.83-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	3.27-09	1.22-08	3.88-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	0.	3.46-08	4.06-09	2.22-11
4.00 01	0.	0.	0.	0.	0.	0.	2.11-08	9.26-10
6.00 01	0.	0.	0.	0.	0.	0.	1.13-08	1.35-09
8.00 01	0.	0.	0.	0.	0.	0.	2.88-09	7.74-09
9.00 01	0.	0.	0.	0.	0.	0.	8.28-12	5.19-09
1.00 02	0.	0.	0.	0.	0.	0.	1.31-12	1.34-09
1.20 02	0.	0.	0.	0.	0.	0.	1.44-13	3.69-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.14-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	5.75-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	7.70-12
	0.	0.	0.	0.	0.	2.08-09	7.85-09	4.37-09
	0.	0.	0.	0.	0.	5.58-10	1.02-09	4.11-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	6.06-15
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.26-12
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.61-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.00-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	6.46-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.51-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.25-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	7.52-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	3.57-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.99-14
	0.	0.	0.	0.	0.	0.	0.	5.69-10
	0.	0.	0.	0.	0.	0.	0.	2.82-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	4.17-15
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.68-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.66-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.15-14
	0.	0.	0.	0.	0.	0.	0.	1.64-12
	0.	0.	0.	0.	0.	0.	0.	1.27-12

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	6.85-14
	0.	0.	0.	0.	0.	0.	0.	4.13-15
	0.	0.	0.	0.	0.	0.	0.	4.13-15

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AIR SCATTERING 4.18 02 ENERGY 4.00 ANGLE 9.00 01 DIST. 6.10 02
3.10 01 1.76 03 0. 0. 5.04 04 5.00 01 1.80 03

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	1.15-08
0.	0.	0.	0.	0.	0.	0.	3.31-09
0.	0.	0.	0.	0.	0.	0.	1.77-09
0.	0.	0.	0.	0.	0.	0.	1.16-09
0.	0.	0.	0.	0.	0.	0.	3.87-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							2.18-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
1.07-10	2.21-10	1.84-10	4.20-10	5.10-12	1.23-14	1.29-23	7.35-09	1.89-09
3.86-10	3.42-10	1.74-10	1.81-10	4.65-11	2.24-14	1.00-24	2.23-09	4.80-10
3.15-10	8.58-10	2.09-10	9.33-11	1.69-10	4.39-15	2.35-27	1.29-09	2.08-10
3.83-10	9.41-10	5.35-10	2.53-10	1.59-11	4.04-14	3.44-23	9.80-10	9.95-11
3.07-10	2.34-10	8.06-10	6.22-10	1.59-11	3.40-13	1.06-23	4.72-10	5.47-11
5.32-10	1.03-09	1.88-09	6.41-11	3.01-11	1.54-11	3.68-25	2.18-10	5.21-11
1.47-10	5.00-10	4.78-10	4.50-10	3.15-11	9.10-15	3.44-24	7.49-11	1.74-11
9.80-11	1.84-10	1.26-10	7.88-11	3.81-11	1.43-13	6.09-24	3.43-11	8.62-12
1.92-10	4.71-10	7.76-11	7.28-11	1.43-11	5.59-14	1.72-26	3.62-11	1.44-11
1.44-10	9.76-12	6.01-10	4.49-11	3.07-11	1.77-14	2.09-27	2.51-11	1.55-11
5.38-10	1.12-09	9.43-10	4.67-10	9.11-11	2.80-12	1.68-23		
8.80-11	2.70-10	3.59-10	2.15-10	3.39-11	2.67-12	9.10-24	1.65-09	1.56-10

PHI 45 TO 90 DEGREES

6.34-11	2.09-10	2.77-10	3.72-11	2.34-12	1.35-14	2.84-22	1.86-11	7.30-12
8.09-10	1.59-10	1.45-10	1.43-10	1.39-11	2.32-14	2.40-23	6.02-11	2.41-11
7.90-10	9.89-11	4.95-11	1.40-10	1.15-10	7.14-13	1.30-21	7.66-11	3.73-11
2.82-10	1.24-10	2.61-10	1.97-10	9.34-11	1.53-12	3.86-25	1.12-10	6.76-11
1.54-10	6.78-10	1.74-10	1.05-10	3.91-11	1.27-12	7.26-23	9.16-11	3.49-11
3.44-10	2.52-10	6.36-11	2.94-11	1.54-11	3.36-14	3.51-23	4.39-11	1.66-11
7.24-10	2.96-10	1.99-10	4.96-10	1.15-11	7.87-14	4.25-19	6.82-11	2.68-11
8.45-11	7.90-10	1.46-10	2.09-10	5.24-11	2.11-14	3.02-22	4.68-11	2.19-11
9.11-10	3.88-10	9.13-11	1.52-10	1.73-11	5.90-14	1.84-19	7.62-11	3.93-11
3.53-12	3.44-11	5.88-11	1.10-10	1.35-11	4.83-14	4.23-27	4.67-12	1.69-12
9.50-10	6.45-10	3.05-10	4.03-10	9.47-11	9.63-13	1.71-19		
2.53-10	2.02-10	6.11-11	1.86-10	3.15-11	5.68-13	1.42-19	1.40-10	2.92-11

PHI 90 TO 135 DEGREES

2.16-10	6.17-11	3.28-10	5.13-10	9.43-12	2.30-14	1.25-23	3.09-11	1.16-11
3.37-10	8.29-11	1.92-10	5.01-11	7.52-11	3.77-14	2.90-24	2.94-11	1.00-11
3.21-10	1.40-10	1.82-10	4.57-10	3.80-11	3.10-15	1.71-24	3.59-11	1.68-11
1.01-10	8.91-11	1.27-10	6.81-11	1.65-11	2.39-14	1.17-22	1.35-11	4.55-12
1.27-11	1.12-10	8.36-11	6.71-11	4.38-11	1.73-14	9.32-28	8.45-12	2.83-12
2.10-10	9.90-11	6.38-10	1.29-10	3.31-11	5.15-15	1.89-28	3.55-11	1.49-11
1.56-09	1.89-09	6.15-11	3.57-11	5.33-11	8.49-15	9.72-20	1.64-10	1.48-10
1.51-10	8.72-11	1.03-09	5.48-11	5.86-12	4.77-12	4.65-21	3.79-11	2.41-11
6.06-10	1.06-11	3.59-10	4.95-11	2.23-11	3.62-12	1.39-20	4.64-11	3.16-11
1.86-10	2.25-11	3.38-10	3.37-10	8.69-12	4.83-14	1.54-28	2.48-11	1.10-11
8.97-10	7.66-10	6.44-10	2.71-10	6.58-11	1.92-12	3.54-20		
2.80-10	5.73-10	2.76-10	1.12-10	2.30-11	1.31-12	3.30-20	1.02-10	5.52-11

PHI 135 TO 180 DEGREES

1.20-10	1.86-10	4.18-11	2.41-11	1.60-11	2.10-13	3.51-29	1.54-11	5.66-12
2.19-09	1.27-09	1.18-10	4.16-10	4.27-11	1.81-14	5.74-23	1.87-10	1.24-10
5.16-10	1.34-10	3.02-10	1.39-11	3.80-12	2.47-14	4.30-25	4.33-11	2.25-11
6.08-11	3.94-11	1.64-11	4.99-11	3.70-11	2.29-14	6.35-27	7.02-12	3.15-12
4.09-11	1.59-10	2.18-10	2.21-11	2.58-12	1.75-14	9.64-24	1.38-11	5.57-12
1.29-11	1.50-10	1.63-10	2.01-10	1.18-10	1.40-16	1.04-28	1.45-11	6.19-12
4.41-11	3.28-10	1.29-11	5.79-11	8.02-12	9.96-14	1.88-25	1.57-11	9.14-12
6.40-11	3.39-10	3.46-10	7.79-11	3.81-11	9.86-14	1.22-27	2.60-11	1.10-11
7.04-11	1.43-10	1.90-10	5.96-10	2.53-12	7.43-14	3.19-22	2.33-11	9.14-12
1.16-11	1.52-10	3.22-10	1.44-10	8.33-14	2.04-15	2.35-20	1.60-11	1.16-11
6.02-10	5.65-10	3.24-10	2.84-10	5.57-11	1.04-13	1.48-21		
3.54-10	2.42-10	1.08-10	1.08-10	2.10-11	6.03-14	1.47-21	6.92-11	2.48-11
							3.09-09	2.93-10

AIR SCATTERING 4.19 02 ENERGY 4.00 ANGLE 1.35 02 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	0.	0.	1.12-07	0.
4.00 01	0.	0.	0.	0.	0.	0.	2.46-09	3.55-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.50-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	7.17-09	6.56-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	0.	0.	7.12-08	5.00-09
4.00 01	0.	0.	0.	0.	0.	0.	2.03-09	2.67-08
6.00 01	0.	0.	0.	0.	0.	0.	6.65-12	3.67-09
8.00 01	0.	0.	0.	0.	0.	0.	5.76-13	7.13-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.04-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.20-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.24-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.10-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	4.65-09	6.24-09
	0.	0.	0.	0.	0.	0.	7.94-10	5.81-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	6.53-10
4.00 01	0.	0.	0.	0.	0.	0.	2.22-14	2.57-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.70-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.37-10
9.00 01	0.	0.	0.	0.	0.	0.	3.22-12	2.92-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.97-13
1.20 02	0.	0.	0.	0.	0.	0.	0.	6.55-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	5.62-13	1.79-10
	0.	0.	0.	0.	0.	0.	5.58-13	3.75-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.06-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.93-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.96-12
8.00 01	0.	0.	0.	0.	0.	0.	0.	7.67-12
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	4.19-12	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.20-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	7.27-13	5.09-11
	0.	0.	0.	0.	0.	0.	7.27-13	2.55-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.60-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.03-12
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.07-14
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.68-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	8.15-13
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.09-14
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	2.71-12
	0.	0.	0.	0.	0.	0.	0.	9.84-13

054676321015 141353442425

AIR SCATTERING 4.19 02 ENERGY 4.00 ANGLE 1.35 02 DIST. 6.10 02
3.30 01 1.75 03 0. 0. 5.05 04 5.00 01 1.80 03

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	1.12-08
0.	0.	0.	0.	0.	0.	0.	3.09-09
0.	0.	0.	0.	0.	0.	0.	1.20-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.24-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
1.21-10	2.47-10	1.67-10	4.22-11	1.65-12	9.47-16	4.34-27	7.54-09	1.32-09
1.83-10	2.41-10	8.86-11	1.63-10	3.56-12	5.60-15	3.15-23	2.36-09	2.29-10
5.59-10	2.14-10	1.65-10	1.06-10	1.31-11	2.92-14	6.65-22	3.41-10	6.78-11
2.66-10	1.82-10	1.13-10	7.97-11	2.88-11	4.64-14	7.22-22	8.38-11	2.24-11
3.10-10	2.11-10	4.42-11	3.20-10	6.24-11	4.93-13	4.73-24	4.91-11	1.30-11
8.46-11	1.28-10	1.40-09	1.39-10	2.02-11	5.81-13	8.08-27	6.32-11	2.86-11
1.31-09	2.03-10	5.35-10	8.41-11	1.32-11	6.42-14	4.61-21	1.03-10	5.41-11
1.25-10	3.95-10	2.79-10	3.05-10	1.41-11	3.85-16	1.14-23	3.40-11	1.27-11
5.38-10	1.59-10	3.66-11	5.29-12	6.56-12	7.36-13	1.13-24	3.91-11	3.09-11
2.32-11	2.48-11	9.52-12	6.16-11	4.31-13	8.95-13	9.05-26	3.45-12	1.70-12
8.94-10	4.33-10	6.12-10	2.78-10	3.72-11	4.13-13	1.93-21		
3.08-10	9.85-11	3.41-10	8.66-11	1.08-11	1.55-13	1.66-21	1.05-09	1.04-10

PHI 45 TO 90 DEGREES

1.33-10	7.23-11	9.96-11	1.04-11	7.42-13	1.48-15	4.35-32	6.54-11	2.59-11
2.71-10	5.75-10	3.50-10	4.73-10	4.19-10	1.06-14	1.27-26	7.80-11	2.56-11
9.74-11	1.74-10	3.87-10	3.55-10	7.03-11	8.77-15	3.28-25	4.12-11	7.92-12
3.05-10	4.57-10	3.28-10	8.33-11	1.11-11	1.10-12	1.73-25	4.77-11	1.13-11
9.39-11	1.21-09	2.30-10	5.54-11	1.37-11	3.06-13	2.89-26	5.84-11	3.88-11
3.54-10	7.75-10	1.97-10	7.88-11	2.24-11	5.52-13	2.41-21	5.53-11	1.78-11
3.78-10	2.51-10	1.29-10	3.18-10	1.29-10	7.43-14	1.44-24	4.12-11	1.48-11
1.54-10	2.29-10	9.47-11	5.65-11	4.78-11	6.15-15	5.03-21	2.11-11	7.65-12
2.49-11	8.35-11	1.02-10	4.41-11	1.09-10	9.41-15	7.89-23	8.82-12	2.86-12
1.06-11	6.10-10	1.39-10	1.93-10	7.56-12	1.22-13	1.32-29	2.89-11	2.22-11
4.27-10	7.73-10	4.44-10	3.66-10	1.74-10	5.49-13	1.77-21		
9.57-11	2.38-10	9.95-11	1.24-10	7.25-11	3.80-13	1.40-21	8.61-11	1.31-11

PHI 90 TO 135 DEGREES

1.88-10	4.13-10	8.43-11	1.20-11	5.01-12	5.47-16	1.01-31	2.93-11	1.40-11
1.08-09	7.95-10	1.42-10	5.90-11	2.66-11	1.23-14	4.82-27	1.14-10	7.48-11
1.33-10	2.66-11	1.07-10	4.48-11	1.93-11	6.03-15	6.90-25	1.26-11	3.85-12
1.46-10	1.91-10	6.75-11	4.28-11	2.07-11	1.12-15	8.95-19	1.88-11	6.03-12
5.09-10	3.49-11	4.14-11	1.83-11	5.46-12	7.35-15	4.67-29	3.31-11	1.87-11
1.89-10	1.68-10	6.71-11	1.17-10	2.09-12	9.93-15	1.50-24	2.09-11	6.28-12
2.25-10	9.53-11	1.76-09	5.75-11	8.53-12	3.05-14	1.69-26	6.32-11	4.19-11
1.46-10	3.36-11	7.63-11	4.68-11	1.90-11	3.43-15	1.40-22	1.27-11	4.95-12
2.49-11	1.41-10	6.73-11	5.54-10	4.60-12	2.33-14	9.07-24	1.65-11	6.77-12
5.48-10	2.30-11	1.72-09	4.19-12	3.99-12	5.82-15	3.75-27	7.50-11	4.61-11
5.49-10	3.34-10	8.08-10	1.88-10	2.70-11	2.24-14	2.92-19		
1.82-10	1.10-10	5.65-10	6.81-11	8.32-12	9.60-15	2.91-19	7.16-11	2.01-11

PHI 135 TO 180 DEGREES

7.58-10	7.30-11	4.69-11	4.57-11	3.26-12	1.02-17	4.14-26	5.20-11	3.36-11
3.45-10	2.45-10	1.28-10	9.23-11	1.39-12	1.03-14	1.18-26	3.43-11	1.24-11
5.02-10	7.46-11	3.00-11	1.07-11	2.21-11	1.77-14	1.85-22	3.40-11	2.53-11
4.95-10	4.05-11	1.40-10	1.36-10	3.22-11	2.81-15	8.89-23	3.70-11	1.72-11
2.19-10	4.21-11	7.60-11	4.85-11	6.88-11	8.85-15	1.48-21	1.82-11	1.04-11
6.98-11	2.55-09	6.61-11	8.63-10	6.37-10	1.77-14	2.50-25	1.18-10	8.90-11
5.96-10	9.28-10	2.26-10	1.69-10	1.24-11	1.10-13	1.70-25	7.73-11	2.72-11
3.86-11	7.38-10	7.13-11	3.04-10	6.42-12	1.16-12	9.09-22	3.53-11	2.48-11
1.21-10	3.90-11	8.44-11	5.30-10	2.02-10	3.08-17	4.79-22	2.06-11	9.19-12
0.	2.34-10	5.75-10	3.66-10	1.28-11	2.34-14	1.08-26	2.79-11	1.75-11
6.77-10	1.05-09	2.42-10	4.74-10	1.81-10	3.57-13	6.61-22		
1.94-10	5.23-10	5.75-11	2.34-10	1.11-10	2.11-13	3.65-22	9.38-11	2.29-11
							2.05-09	1.82-10

AIR SCATTERING 4.20 02 ENERGY 4.00 ANGLE 1.80 02 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	2.17-07
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.31-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	0.	0.	1.19-12	1.41-07
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.27-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.44-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	9.74-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	6.17-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	7.85-13
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	7.17-14	8.82-09
	0.	0.	0.	0.	0.	0.	4.43-14	8.97-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.10-10	2.10-09
4.00 01	0.	0.	0.	0.	0.	0.	5.99-16	5.68-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	4.17-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.17-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.11-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	6.62-12	3.94-10
	0.	0.	0.	0.	0.	0.	6.05-12	9.65-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.13-11	2.40-09
4.00 01	0.	0.	0.	0.	0.	0.	5.41-13	5.44-10
6.00 01	0.	0.	0.	0.	0.	0.	2.41-13	1.74-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.28-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.83-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	7.38-14
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	8.40-13	2.93-10
	0.	0.	0.	0.	0.	0.	5.24-13	9.05-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.79-13	2.82-09
4.00 01	0.	0.	0.	0.	0.	0.	1.47-13	7.78-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.43-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	5.71-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.36-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.74-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.09-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	3.63-14	4.58-10
	0.	0.	0.	0.	0.	0.	2.17-14	9.61-11

141353442425 213004004665

AIR SCATTERING 4.20 02 ENERGY 4.00 ANGLE 1.80 02 DIST. 6.10 02
2.70 01 1.76 03 0. 0. 5.03 04 5.00 01 1.80 03

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	1.73-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.05-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
2.94-10	5.24-10	4.01-10	1.41-10	1.45-11	1.49-15	4.37-28	1.14-08	1.17-09
1.92-10	1.06-10	3.94-10	1.61-10	1.58-11	2.67-15	1.45-22	1.29-10	5.33-11
1.57-10	1.04-10	1.52-10	9.92-11	5.64-11	4.19-14	7.22-22	3.05-11	7.38-12
3.00-10	1.59-10	3.53-10	1.09-09	7.75-10	1.71-14	1.35-23	6.57-11	2.67-11
2.07-10	4.84-11	1.51-09	1.35-10	8.54-12	3.45-15	3.13-28	5.31-11	3.66-11
7.65-11	8.66-11	7.36-11	7.50-10	4.97-12	1.30-14	1.27-24	2.08-11	9.10-12
4.54-10	6.19-10	9.76-11	8.73-11	5.19-11	3.17-14	3.25-24	5.38-11	3.02-11
5.48-11	1.91-10	1.63-10	2.97-10	1.57-10	1.83-15	8.19-27	2.04-11	8.46-12
1.18-10	1.56-11	2.72-10	1.42-11	1.26-12	5.34-15	2.58-29	1.44-11	7.68-12
7.97-10	0.	5.50-10	2.02-11	4.85-12	8.08-14	1.44-28	6.14-11	3.90-11
4.71-10	4.08-10	6.80-10	6.84-10	3.33-10	3.68-14	2.23-22		
1.03-10	1.62-10	3.20-10	3.60-10	2.50-10	1.14-14	2.10-22	7.79-10	7.51-11

PHI 45 TO 90 DEGREES

2.20-10	3.88-10	1.91-10	4.28-10	1.45-11	2.93-14	9.87-24	2.17-10	9.01-11
7.25-09	2.70-10	1.13-10	3.12-11	7.19-12	7.47-14	9.54-28	4.93-10	4.27-10
1.20-10	2.51-10	7.02-10	4.55-10	3.02-12	4.22-13	1.16-23	7.33-11	2.10-11
3.19-10	2.07-09	4.15-10	9.19-11	8.58-11	2.38-16	1.70-26	1.15-10	7.18-11
1.66-10	2.40-10	2.27-10	6.16-11	1.45-10	1.04-16	2.48-22	3.55-11	1.14-11
1.17-09	3.27-11	5.85-11	3.58-10	4.75-11	5.89-15	7.27-27	7.88-11	5.07-11
4.38-10	1.92-10	2.11-11	1.40-10	3.90-11	3.64-14	2.66-22	3.62-11	1.57-11
1.81-10	2.68-09	8.82-11	8.41-11	3.70-10	3.66-15	1.40-24	1.15-10	9.08-11
4.40-11	5.30-11	7.48-11	1.78-10	1.22-11	5.83-15	3.63-24	9.15-12	3.09-12
2.13-11	6.67-11	2.04-11	2.17-12	2.11-12	3.22-15	1.19-36	4.23-12	2.66-12
1.84-09	1.65-09	4.47-10	3.54-10	1.78-10	1.42-13	1.35-22		
1.25-09	9.27-10	1.71-10	1.23-10	9.79-11	1.05-13	8.48-23	2.20-10	8.37-11

PHI 90 TO 135 DEGREES

3.16-10	2.82-10	6.19-10	4.49-11	4.16-11	7.05-15	5.95-23	2.38-10	1.06-10
1.02-09	4.54-10	3.07-10	1.52-09	3.94-11	5.65-15	1.30-23	1.52-10	5.23-11
3.98-10	3.25-10	5.42-10	5.35-11	3.45-12	1.26-14	2.95-24	6.34-11	2.08-11
7.92-10	7.45-11	1.42-10	1.77-10	3.18-11	3.02-13	9.41-27	5.85-11	3.06-11
1.85-10	6.13-11	8.78-11	1.52-10	1.71-11	1.13-12	1.82-18	1.81-11	5.43-12
7.09-11	1.99-10	2.28-10	2.26-10	1.19-11	6.97-13	1.90-27	2.04-11	8.53-12
2.44-11	3.14-10	1.19-09	1.15-10	5.58-11	4.88-14	2.94-25	4.37-11	2.72-11
1.47-10	1.09-10	1.85-10	2.82-11	3.93-11	1.65-12	1.71-25	1.80-11	7.06-12
1.11-10	7.04-11	2.61-10	1.47-09	3.27-11	4.74-16	1.59-19	3.78-11	2.09-11
3.89-12	5.99-11	1.05-12	4.55-11	7.09-12	4.50-14	1.03-26	3.18-12	2.00-12
6.71-10	3.99-10	8.18-10	7.07-10	6.04-11	8.78-13	3.44-19		
2.18-10	1.08-10	3.78-10	3.48-10	1.81-11	5.49-13	3.44-19	1.09-10	2.05-11

PHI 135 TO 180 DEGREES

1.82-10	3.87-10	6.71-10	9.53-10	1.04-10	1.60-14	1.02-31	2.82-10	6.86-11
1.23-10	8.72-11	4.53-10	1.19-10	2.95-11	3.68-13	5.26-24	8.58-11	2.38-11
1.27-10	7.36-10	2.26-10	1.85-10	1.20-10	1.06-14	3.09-24	7.12-11	2.28-11
1.46-10	4.02-10	4.56-10	1.52-10	1.76-10	1.27-13	1.16-25	4.31-11	1.47-11
2.88-10	2.61-11	4.20-10	1.40-10	1.08-11	1.66-13	5.34-19	3.24-11	1.02-11
5.63-10	7.71-11	1.96-10	3.29-11	1.20-11	1.09-14	6.87-26	4.11-11	2.79-11
1.07-10	3.67-11	8.77-11	4.11-11	3.18-11	2.06-15	1.39-22	1.95-11	7.42-12
4.60-11	2.34-10	1.67-10	2.47-10	1.54-11	6.84-15	7.86-26	1.91-11	7.49-12
4.47-11	1.12-10	9.57-11	1.77-10	3.75-11	1.18-14	1.49-18	1.21-11	4.17-12
2.58-11	2.19-09	2.98-11	1.09-12	1.68-10	3.23-12	1.18-33	8.32-11	7.67-11
3.18-10	6.09-10	5.11-10	3.17-10	1.36-10	3.39-13	3.52-19		
9.07-11	2.02-10	1.35-10	8.96-11	6.65-11	2.09-13	2.75-19	9.63-11	1.52-11
							1.89-09	2.06-10

AIR SCATTERING 4.21 02 ENERGY 2.00 ANGLE 1.00 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	2.15-05	0.	0.	0.	0.	0.	0.	0.
4.00 01	2.28-06	0.	4.30-06	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	3.95-06	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	3.84-06	0.	0.
1.60 02	0.	0.	0.	0.	0.	2.13-06	1.56-06	0.
1.80 02	0.	0.	0.	0.	0.	0.	1.09-05	0.
	1.69-06	0.	7.46-07	1.29-06	0.	1.39-06	9.30-07	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	1.37-05	0.	0.	0.	0.	0.	0.	7.93-10
4.00 01	1.45-06	0.	2.73-06	0.	0.	0.	0.	5.96-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.17-09
8.00 01	0.	0.	0.	2.52-06	0.	0.	0.	2.31-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.72-10
1.00 02	0.	0.	0.	0.	0.	0.	4.88-13	3.08-10
1.20 02	0.	0.	0.	0.	0.	0.	1.70-10	1.34-09
1.40 02	0.	0.	0.	0.	0.	2.44-06	5.51-10	6.08-10
1.60 02	0.	0.	0.	0.	0.	1.36-06	1.01-06	6.41-10
1.80 02	0.	0.	0.	0.	0.	1.30-11	6.97-06	3.49-10
	1.08-06	0.	4.75-07	8.21-07	0.	8.85-07	5.95-07	1.62-09
	3.59-07	0.	4.75-07	8.21-07	0.	6.91-07	2.18-07	4.21-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.69-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	8.41-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.91-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.08-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.51-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	4.13-09
1.20 02	0.	0.	0.	0.	0.	4.01-13	1.83-10	1.17-09
1.40 02	0.	0.	0.	0.	0.	6.54-14	1.15-09	3.67-10
1.60 02	0.	0.	0.	0.	0.	7.32-12	7.03-09	2.06-10
1.80 02	0.	0.	0.	0.	1.53-11	3.41-12	4.04-09	4.60-10
	0.	0.	0.	0.	9.21-13	1.62-12	1.83-09	1.96-09
	0.	0.	0.	0.	9.21-13	1.14-12	5.95-10	6.15-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.28-08	1.61-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.50-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	5.75-10
8.00 01	0.	0.	0.	0.	0.	0.	1.64-13	3.41-09
9.00 01	0.	0.	0.	0.	0.	0.	8.78-16	1.38-10
1.00 02	0.	0.	0.	0.	0.	0.	1.50-09	8.14-10
1.20 02	0.	0.	0.	0.	0.	0.	3.79-11	2.25-10
1.40 02	0.	0.	0.	1.87-13	3.20-14	2.98-12	6.35-10	7.01-10
1.60 02	0.	0.	0.	0.	0.	1.53-10	8.82-10	1.03-09
1.80 02	0.	0.	0.	1.51-12	4.43-10	2.15-11	6.02-09	1.94-10
	0.	0.	0.	1.41-13	2.67-11	2.87-11	1.73-09	2.14-09
	0.	0.	0.	1.04-13	2.66-11	2.40-11	8.29-10	8.74-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	3.30-11
4.00 01	0.	0.	0.	0.	0.	0.	3.90-09	2.39-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.42-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.33-10
9.00 01	0.	0.	0.	0.	0.	0.	4.23-11	5.15-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.35-10
1.20 02	0.	0.	0.	0.	0.	1.23-12	3.24-11	8.61-10
1.40 02	0.	0.	0.	0.	9.36-13	1.67-11	1.60-09	8.29-10
1.60 02	0.	0.	0.	0.	5.62-11	1.75-11	1.26-09	4.25-10
1.80 02	0.	0.	0.	0.	8.61-13	7.55-10	4.58-09	5.65-10
	0.	0.	0.	0.	1.01-11	5.34-11	1.62-09	9.80-10
	0.	0.	0.	0.	9.75-12	4.40-11	7.52-10	2.04-10

213004004665 120330352755

AIR SCATTERING 4.21 02 ENERGY 2.00 ANGLE 1.00 DIST. 6.10 02

4.60 01	1.74 03	0.	0.	5.39 04	5.00 01	1.80 03	

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	1.29-05
0.	0.	0.	0.	0.	0.	0.	3.08-06
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	7.91-07
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	4.22-07
0.	0.	0.	0.	0.	0.	0.	3.44-07
0.	0.	0.	0.	0.	0.	0.	7.65-07
0.	0.	0.	0.	0.	0.	0.	1.79-06

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
5.78-10	2.93-11	1.47-11	4.65-12	7.51-13	3.10-17	4.81-22	8.21-06	2.55-06
4.82-10	8.68-10	7.61-11	2.66-11	2.43-12	2.98-15	9.96-24	1.96-06	1.40-06
1.14-10	6.97-11	2.03-10	5.58-11	6.31-12	4.14-15	1.07-21	1.19-10	6.55-11
7.88-10	3.35-10	7.25-10	1.31-10	8.30-11	1.37-15	4.52-23	5.03-07	5.03-07
2.86-10	5.69-11	1.64-09	5.72-10	5.31-12	7.62-15	8.13-26	5.87-11	3.21-11
6.07-11	1.92-10	9.75-10	1.17-10	2.72-12	1.58-15	1.25-22	4.29-11	1.43-11
2.54-10	3.70-10	9.91-11	7.42-11	8.62-10	1.13-15	3.36-24	1.08-10	3.48-11
2.73-10	5.44-10	2.74-10	2.21-10	1.71-12	9.48-17	1.40-19	2.69-07	2.69-07
5.72-10	4.56-10	4.34-10	1.84-10	1.15-12	3.12-16	1.06-21	2.20-07	1.64-07
4.63-10	4.62-10	2.52-10	4.67-11	1.92-12	5.56-17	2.58-23	4.88-07	1.55-07
7.49-10	6.96-10	9.54-10	3.00-10	3.13-10	4.12-15	3.78-20		
2.41-10	1.65-10	3.17-10	9.13-11	2.51-10	1.93-15	3.72-20	1.14-06	3.39-07

PHI 45 TO 90 DEGREES

2.68-10	4.84-11	1.58-12	2.53-11	2.99-13	6.67-18	2.31-31	1.46-10	1.32-10
1.42-10	3.41-10	8.61-10	4.14-11	3.09-11	2.06-12	3.29-28	3.55-11	1.60-11
3.52-10	9.57-10	2.12-10	3.57-11	7.96-12	1.86-14	2.60-24	5.49-11	1.89-11
5.78-10	8.41-10	2.78-10	4.81-11	1.14-10	1.62-15	1.52-23	1.02-10	4.34-11
6.47-10	1.50-10	1.14-10	2.44-11	3.14-11	7.14-12	1.03-24	5.73-11	2.65-11
2.54-10	1.19-10	9.91-11	2.03-11	4.58-10	1.16-15	5.14-20	2.25-10	1.43-10
5.12-10	8.70-10	1.62-10	4.82-11	9.00-12	2.89-15	4.36-19	1.14-10	3.10-11
5.24-10	1.15-09	4.70-10	1.53-10	3.91-11	1.51-15	4.30-24	1.57-10	3.93-11
4.67-10	7.44-10	4.15-10	3.26-11	3.59-09	7.78-16	2.97-26	5.82-10	2.35-10
7.99-10	2.77-10	9.03-11	1.76-10	1.79-12	9.43-17	2.19-26	3.47-10	8.24-11
9.15-10	1.37-09	5.89-10	1.14-10	7.67-10	1.61-12	1.51-19		
1.78-10	3.25-10	1.60-10	2.98-11	7.41-10	1.30-12	1.51-19	3.13-10	5.39-11

PHI 90 TO 135 DEGREES

2.44-10	3.12-10	1.00-10	3.41-09	2.32-11	2.42-15	2.70-27	9.48-10	8.95-10
6.95-10	7.34-11	3.66-09	1.37-11	2.73-12	1.36-17	9.82-23	1.75-10	9.87-11
6.80-10	3.01-10	2.02-10	2.96-10	7.21-12	1.34-13	5.13-24	6.75-11	2.62-11
1.91-10	1.19-10	5.54-10	4.99-11	8.60-11	4.88-16	7.67-25	1.93-10	1.25-10
6.92-11	2.89-10	1.70-10	1.73-10	2.35-11	1.73-16	2.98-21	2.17-11	5.87-12
3.76-10	1.37-10	2.21-10	9.11-12	4.49-11	7.46-15	2.97-19	1.67-10	1.05-10
8.18-09	1.36-10	2.53-10	4.54-11	4.46-11	5.41-12	5.44-21	3.17-10	1.62-10
9.78-10	4.31-10	2.62-10	1.01-10	1.65-11	7.77-16	9.06-22	1.32-10	3.37-11
3.51-10	4.97-10	5.72-10	1.76-10	5.11-12	2.00-14	1.68-24	1.68-10	4.82-11
4.14-10	1.37-10	1.50-10	2.34-10	2.85-11	2.80-13	4.70-26	5.24-10	1.86-10
3.47-09	4.78-10	1.21-09	4.21-10	6.53-11	1.82-12	5.41-20		
1.48-09	1.04-10	6.34-10	2.24-10	3.08-11	1.76-12	5.35-20	4.01-10	1.05-10

PHI 135 TO 180 DEGREES

8.62-10	2.34-10	3.97-10	1.11-10	8.11-13	3.03-15	6.15-25	4.74-11	3.22-11
2.99-10	1.32-10	9.68-11	3.46-11	4.20-12	3.96-16	2.87-24	3.01-10	2.73-10
6.90-09	5.56-10	3.24-10	5.31-10	4.84-12	1.31-16	7.68-22	3.06-10	1.67-10
1.82-10	2.63-10	9.90-10	3.02-11	1.85-12	3.64-13	5.60-21	3.97-11	1.32-11
1.72-10	7.35-11	4.75-10	5.02-11	8.30-11	4.57-16	3.78-24	4.75-11	2.07-11
3.98-11	2.43-10	5.68-11	1.68-11	6.57-13	3.29-14	1.38-17	1.53-11	3.70-12
9.08-10	5.25-10	9.29-11	3.56-11	1.49-12	2.23-16	1.81-25	9.30-11	2.62-11
2.26-10	7.40-10	2.20-10	1.69-10	1.79-11	9.46-14	3.58-24	1.88-10	8.31-11
5.95-10	5.67-10	2.42-10	1.78-10	2.72-11	7.26-14	4.42-24	1.62-10	4.62-11
1.14-09	3.18-10	4.73-10	2.39-11	1.57-12	1.63-16	7.58-27	4.90-10	1.32-10
2.56-09	8.12-10	7.02-10	2.64-10	2.73-11	1.63-13	2.40-18		
1.23-09	2.04-10	2.15-10	1.10-10	1.45-11	1.24-13	2.40-18	2.98-10	7.48-11
							1.79-06	5.33-07

AIR SCATTERING 4.22 02 ENERGY 2.00 ANGLE 1.50 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	6.24-07	6.07-07	0.	0.	0.	0.	0.	0.
4.00 01	0.	5.04-08	1.73-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	1.22-08	1.39-07	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	1.07-07	0.	0.	0.
9.00 01	0.	0.	0.	0.	6.86-08	4.29-08	0.	0.
1.00 02	0.	0.	0.	0.	0.	1.13-07	0.	0.
1.20 02	0.	0.	0.	0.	0.	1.10-07	0.	0.
1.40 02	0.	0.	0.	0.	0.	9.97-08	3.74-08	0.
1.60 02	0.	0.	0.	0.	0.	0.	2.67-07	0.
1.80 02	0.	0.	0.	0.	0.	0.	8.96-08	0.
	3.77-08	4.54-08	3.33-08	3.69-08	4.69-08	9.94-08	6.18-08	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	3.97-07	3.87-07	0.	0.	1.03-08	0.	0.	4.15-13
4.00 01	0.	3.21-08	1.10-07	0.	0.	0.	0.	2.86-08
6.00 01	0.	0.	7.80-09	8.83-08	0.	0.	0.	1.45-10
8.00 01	0.	0.	0.	0.	6.83-08	0.	1.18-12	7.55-09
9.00 01	0.	0.	0.	0.	4.37-08	2.73-08	1.03-11	4.27-10
1.00 02	0.	0.	0.	0.	0.	7.22-08	5.21-11	6.53-10
1.20 02	0.	0.	0.	0.	0.	6.97-08	2.12-09	9.95-10
1.40 02	0.	0.	0.	0.	0.	6.35-08	2.59-08	1.19-09
1.60 02	0.	0.	0.	0.	0.	1.01-10	1.82-07	8.61-10
1.80 02	0.	0.	0.	0.	7.38-11	2.90-11	7.60-08	7.79-10
	2.40-08	2.89-08	2.12-08	2.35-08	3.05-08	5.69-08	4.38-08	8.50-09
	4.66-09	8.69-09	6.68-09	9.58-09	1.13-08	1.28-08	4.76-09	5.40-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	7.27-09	0.	8.40-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.19-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.59-09
8.00 01	0.	0.	0.	0.	0.	0.	1.34-09	8.97-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.26-10
1.00 02	0.	0.	0.	0.	0.	0.	2.17-10	6.16-10
1.20 02	0.	0.	0.	0.	0.	7.52-10	1.63-10	8.37-10
1.40 02	0.	0.	0.	0.	0.	0.	1.67-09	3.36-09
1.60 02	0.	0.	0.	0.	0.	7.36-12	4.12-09	2.71-10
1.80 02	0.	0.	0.	0.	0.	6.28-11	5.11-09	5.09-10
	0.	0.	0.	0.	0.	6.89-10	2.00-09	2.74-09
	0.	0.	0.	0.	0.	5.02-10	5.56-10	1.02-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	2.84-08	0.	0.	0.	2.31-08
4.00 01	0.	0.	0.	0.	0.	0.	3.63-09	1.05-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.68-09
8.00 01	0.	0.	0.	0.	0.	0.	4.33-11	4.89-10
9.00 01	0.	0.	0.	0.	0.	0.	1.52-11	1.41-09
1.00 02	0.	0.	0.	0.	0.	0.	5.40-11	5.76-10
1.20 02	0.	0.	0.	0.	0.	0.	2.84-11	3.24-10
1.40 02	0.	0.	0.	0.	4.85-12	0.	1.29-09	3.80-10
1.60 02	0.	0.	0.	0.	0.	1.52-11	7.18-10	3.40-10
1.80 02	0.	0.	0.	0.	3.13-11	1.50-11	9.10-10	2.44-10
	0.	0.	0.	1.71-09	3.18-12	3.55-12	1.19-09	3.07-09
	0.	0.	0.	1.71-09	2.29-12	2.67-12	6.62-10	1.27-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.12-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.15-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.61-10
9.00 01	0.	0.	0.	0.	0.	0.	1.43-10	6.33-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.81-10
1.20 02	0.	0.	0.	0.	0.	4.80-11	7.04-12	1.92-09
1.40 02	0.	0.	0.	0.	0.	1.99-12	1.23-10	2.90-10
1.60 02	0.	0.	0.	0.	9.14-11	9.43-12	3.77-09	5.29-10
1.80 02	0.	0.	0.	0.	1.93-13	7.96-13	6.47-10	3.08-09
	0.	0.	0.	0.	1.59-11	1.79-11	7.53-10	1.84-09
	0.	0.	0.	0.	1.59-11	1.52-11	5.82-10	5.99-10

120330352755 065034664071

AIR SCATTERING 4.22 02 ENERGY 2.00 ANGLE 1.50 01 DIST. 6.10 02
4.00 01 1.75 03 0. 0. 5.38 04 5.00 01 1.80 03

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	5.57-07
0.	0.	0.	0.	0.	0.	0.	8.43-08
0.	0.	0.	0.	0.	0.	0.	3.27-08
0.	0.	0.	0.	0.	0.	0.	1.61-08
0.	0.	0.	0.	0.	0.	0.	1.50-08
0.	0.	0.	0.	0.	0.	0.	1.25-08
0.	0.	0.	0.	0.	0.	0.	1.20-08
0.	0.	0.	0.	0.	0.	0.	1.36-08
0.	0.	0.	0.	0.	0.	0.	1.87-08
0.	0.	0.	0.	0.	0.	0.	6.27-09
0.	0.	0.	0.	0.	0.	0.	7.81-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
8.36-11	8.62-10	7.80-12	3.12-10	3.32-11	3.13-17	1.52-23	3.56-07	6.02-08
1.04-10	2.39-11	4.84-10	3.20-09	5.46-12	1.54-16	1.03-22	5.51-08	1.62-08
1.34-10	4.73-11	3.70-11	2.42-10	8.54-11	1.50-15	1.27-23	2.08-08	7.85-09
6.98-10	2.30-10	1.85-10	9.54-10	7.29-11	2.05-15	1.12-22	1.07-08	4.73-09
2.98-10	3.95-10	2.52-10	1.82-10	2.33-12	2.99-16	4.83-24	9.60-09	5.52-09
3.22-10	6.68-10	5.81-10	8.77-11	1.01-11	4.88-16	1.14-22	8.01-09	4.59-09
8.28-10	7.05-10	2.87-10	2.65-10	1.89-11	1.50-16	1.34-24	7.92-09	2.75-09
8.64-10	4.66-10	3.18-10	7.31-09	4.14-12	2.24-14	8.56-23	8.98-09	2.19-09
6.71-10	3.68-09	1.13-09	8.35-11	9.40-12	7.34-18	5.61-24	1.29-08	1.53-09
1.23-09	8.45-11	8.11-10	1.35-09	3.71-12	6.24-18	1.55-26	5.45-09	4.66-10
1.09-09	1.33-09	7.22-10	3.13-09	6.07-11	7.25-15	1.04-22		
2.72-10	4.34-10	2.29-10	1.98-09	3.41-11	6.02-15	4.77-23	5.07-08	5.45-09

PHI 45 TO 90 DEGREES

2.47-10	6.61-11	4.19-11	5.09-11	1.06-12	8.60-18	9.54-22	8.16-10	8.00-10
3.85-10	6.02-11	2.45-10	1.03-10	6.57-11	2.33-15	2.36-23	1.32-10	6.22-11
3.22-10	5.46-11	9.38-11	4.31-11	3.72-12	5.45-15	2.79-21	1.45-10	1.20-10
1.35-10	2.39-10	6.96-10	4.71-09	5.79-12	1.88-15	1.95-23	2.10-10	1.04-10
2.80-10	2.55-10	6.25-10	5.17-11	2.42-12	3.69-17	1.09-27	3.56-11	1.34-11
5.41-10	4.18-10	2.32-09	1.09-10	1.02-11	4.92-16	2.82-23	1.23-10	5.15-11
1.63-10	6.28-10	2.25-09	1.48-10	8.71-12	9.99-17	2.84-24	2.04-10	9.52-11
4.81-10	5.60-10	2.05-10	6.86-11	6.29-12	1.12-15	4.23-24	3.20-10	1.53-10
8.56-10	4.57-10	1.08-09	3.18-11	2.65-12	6.26-17	1.64-24	3.66-10	1.02-10
1.20-08	1.40-10	1.04-10	3.61-10	9.89-13	3.07-15	4.80-24	8.32-10	3.89-10
1.41-09	6.65-10	1.79-09	1.69-09	2.16-11	3.09-15	8.17-22		
7.07-10	1.70-10	9.81-10	1.53-09	1.17-11	1.16-15	7.44-22	4.72-10	9.47-11

PHI 90 TO 135 DEGREES

1.57-10	1.13-10	1.10-10	5.08-13	3.31-11	2.15-13	7.39-30	6.84-09	5.75-09
5.03-10	1.26-09	3.03-10	3.50-11	6.77-12	1.14-13	1.23-24	3.61-10	2.58-10
2.65-10	5.85-11	1.76-10	1.12-10	1.33-10	2.54-15	1.82-21	1.51-10	9.35-11
6.74-10	3.91-10	7.63-10	7.96-11	2.69-12	3.15-15	3.98-23	7.73-11	2.52-11
1.35-09	2.18-09	1.49-10	1.02-10	8.72-12	1.17-16	2.04-23	1.76-10	1.41-10
2.47-10	3.91-10	3.56-10	2.30-11	1.29-12	2.43-17	1.03-26	5.82-11	1.90-11
1.57-09	1.11-10	5.44-10	4.45-11	4.20-12	1.64-15	1.39-24	8.88-11	3.27-11
1.44-10	7.38-10	1.25-09	3.27-11	5.57-12	1.70-15	2.87-22	1.58-10	6.05-11
3.51-10	4.40-10	3.98-10	1.06-10	3.40-12	1.04-14	2.41-25	1.01-10	2.27-11
4.24-10	1.39-09	6.14-10	3.03-11	1.80-12	1.75-16	2.17-22	1.43-10	5.23-11
1.30-09	1.21-09	1.06-09	1.27-10	4.48-11	3.73-14	5.91-22		
4.10-10	4.56-10	4.07-10	2.82-11	3.47-11	3.16-14	4.93-22	6.79-10	3.53-10

PHI 135 TO 180 DEGREES

7.35-11	3.41-11	1.79-10	1.60-13	2.01-15	1.00-14	6.51-32	7.05-12	4.26-12
7.54-11	4.64-11	4.76-11	1.06-11	4.29-12	3.82-15	1.43-24	2.05-11	1.23-11
7.71-11	4.20-10	6.00-09	1.25-10	1.30-11	3.23-14	1.71-21	2.42-10	1.20-10
1.59-10	6.32-10	1.33-09	1.97-10	6.67-12	1.12-14	4.79-21	5.76-11	2.57-11
6.28-10	3.10-10	6.95-10	7.39-11	8.61-12	9.07-16	8.80-26	8.65-11	3.01-11
3.41-10	1.85-10	9.45-11	1.71-10	1.22-11	1.36-16	3.52-23	3.95-11	1.39-11
3.44-10	1.15-09	2.80-10	6.82-10	5.78-12	3.99-14	2.57-25	1.55-10	7.39-11
2.20-10	1.45-09	1.51-10	1.32-10	4.03-11	5.72-15	2.49-18	7.08-11	2.48-11
3.94-10	1.02-09	3.95-10	1.22-10	1.14-12	1.26-17	6.35-23	3.53-10	2.35-10
1.07-09	2.45-10	2.00-10	3.17-10	1.08-11	5.67-16	4.70-25	2.51-10	1.02-10
5.62-10	1.37-09	2.40-09	4.40-10	2.35-11	2.82-14	6.63-19		
1.13-10	5.50-10	1.41-09	2.12-10	8.69-12	1.35-14	6.61-19	2.55-10	5.97-11
							8.18-08	8.66-09

AIR SCATTERING 4.23 02 ENERGY 2.00 ANGLE 3.00 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	2.41-07	2.04-07	0.	0.	0.	0.	0.
4.00 01	0.	0.	3.00-08	7.61-08	0.	0.	0.	0.
6.00 01	0.	0.	0.	2.32-08	4.95-08	0.	0.	0.
8.00 01	0.	0.	0.	0.	2.97-08	2.87-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	5.33-08	0.	0.
1.00 02	0.	0.	0.	0.	0.	5.44-08	0.	0.
1.20 02	0.	0.	0.	0.	0.	5.09-08	0.	0.
1.40 02	0.	0.	0.	0.	0.	1.44-09	8.27-08	0.
1.60 02	0.	0.	0.	0.	0.	0.	3.31-08	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	1.45-08	1.75-08	1.94-08	2.29-08	4.51-08	2.78-08	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	1.53-07	1.30-07	0.	0.	0.	0.	4.58-12
4.00 01	0.	0.	1.91-08	4.85-08	0.	0.	0.	1.16-08
6.00 01	0.	0.	0.	1.48-08	3.15-08	5.93-09	1.51-08	1.09-09
8.00 01	0.	0.	0.	0.	1.89-08	1.82-08	3.00-11	2.65-09
9.00 01	0.	0.	0.	0.	0.	3.39-08	1.44-09	1.90-09
1.00 02	0.	0.	0.	0.	0.	3.47-08	1.48-10	4.39-10
1.20 02	0.	0.	0.	0.	0.	3.24-08	1.54-09	1.53-09
1.40 02	0.	0.	0.	0.	0.	1.68-09	5.86-08	3.90-10
1.60 02	0.	0.	0.	0.	4.57-13	2.19-11	2.73-08	4.84-10
1.80 02	0.	0.	0.	0.	5.04-11	1.29-11	3.06-09	6.30-10
	0.	9.25-09	1.12-08	1.23-08	1.46-08	3.05-08	2.53-08	4.30-09
	0.	2.56-09	2.48-09	3.56-09	4.04-09	4.92-09	4.38-09	1.63-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	5.63-11
4.00 01	0	0.	0.	0.	0.	0.	0.	1.07-10
6.00 01	0.	0.	0.	0.	0.	0.	2.98-15	3.27-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	5.57-10
9.00 01	0.	0.	0.	0.	0.	0.	1.36-12	1.82-09
1.00 02	0.	0.	0.	0.	0.	0.	7.20-12	4.95-10
1.20 02	0.	0.	0.	0.	0.	0.	1.56-10	7.02-10
1.40 02	0.	0.	0.	0.	0.	1.17-13	5.15-10	3.85-10
1.60 02	0.	0.	0.	0.	0.	1.04-11	2.46-09	2.36-10
1.80 02	0.	0.	0.	0.	5.90-11	2.17-11	7.81-10	1.67-10
	0.	0.	0.	0.	3.56-12	3.14-12	6.63-10	1.08-09
	0.	0.	0.	0.	3.56-12	2.15-12	2.15-10	3.13-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	2.62-09	0.	4.56-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	7.17-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	9.85-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.08-10
1.00 02	0.	0.	0.	0.	0.	0.	9.75-12	4.54-10
1.20 02	0.	0.	0.	0.	0.	0.	3.92-11	7.34-10
1.40 02	0.	0.	0.	0.	0.	8.06-13	1.26-10	2.73-10
1.60 02	0.	0.	0.	0.	0.	6.75-12	1.85-09	3.09-10
1.80 02	0.	0.	0.	0.	0.	2.68-17	1.96-10	2.27-09
	0.	0.	0.	0.	0.	4.56-10	3.81-10	9.20-10
	0.	0.	0.	0.	0.	4.54-10	2.91-10	2.11-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.37-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.42-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.10-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.90-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.35-10
1.00 02	0.	0.	0.	0.	0.	0.	1.15-11	1.97-10
1.20 02	0.	0.	0.	0.	0.	7.72-11	3.79-12	8.59-10
1.40 02	0.	0.	0.	0.	0.	3.89-12	6.10-12	2.58-10
1.60 02	0.	0.	0.	0.	0.	7.67-14	5.26-11	2.09-09
1.80 02	0.	0.	0.	0.	0.	3.31-13	4.12-09	1.95-10
	0.	0.	0.	0.	0.	2.63-11	2.62-10	9.57-10
	0.	0.	0.	0.	0.	2.52-11	1.61-10	3.09-10

065034664071 040172417465

AIR SCATTERING 4.23 02 ENERGY 2.00 ANGLE 3.00 01 DIST. 6.10 02
5.00 01 1.74 03 0. 0. 5.35 04 5.00 01 1.80 03

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	1.54-07
0.	0.	0.	0.	0.	0.	0.	2.72-08
0.	0.	0.	0.	0.	0.	0.	1.21-08
0.	0.	0.	0.	0.	0.	0.	7.61-09
0.	0.	0.	0.	0.	0.	0.	5.87-09
0.	0.	0.	0.	0.	0.	0.	5.99-09
0.	0.	0.	0.	0.	0.	0.	5.60-09
0.	0.	0.	0.	0.	0.	0.	5.95-09
0.	0.	0.	0.	0.	0.	0.	2.32-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	2.56-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
6.95-10	1.17-10	7.64-09	7.67-11	3.42-10	7.79-17	1.96-24	9.83-08	1.87-08
1.01-10	3.69-10	3.67-09	1.75-10	9.17-13	4.97-15	2.61-25	1.80-08	4.70-09
1.21-09	2.88-10	2.17-10	3.56-10	7.09-12	1.68-16	1.01-26	9.50-09	2.62-09
1.14-09	3.61-10	7.79-10	4.23-10	4.18-11	1.43-15	6.58-23	5.05-09	1.47-09
5.97-10	3.63-10	8.03-10	5.12-10	3.42-12	1.58-15	2.55-21	3.98-09	1.53-09
1.62-10	3.78-10	4.98-10	5.21-10	1.74-12	8.66-15	4.12-22	3.87-09	1.35-09
7.76-10	4.73-10	3.84-10	1.01-09	8.40-12	1.34-13	3.85-23	3.81-09	7.24-10
5.40-10	4.25-10	2.08-10	1.43-10	4.67-10	8.01-15	1.13-21	4.35-09	4.71-10
8.36-10	7.01-10	5.09-10	6.82-11	3.65-12	1.73-15	4.53-19	1.99-09	1.40-10
4.50-10	3.06-10	4.11-10	8.88-11	5.28-12	5.74-17	8.45-20	2.87-10	1.29-10
1.45-09	8.02-10	1.93-09	8.32-10	1.65-10	4.93-14	8.45-20		
4.14-10	1.39-10	6.29-10	3.05-10	1.24-10	4.06-14	8.37-20	1.74-08	1.71-09

PHI 45 TO 90 DEGREES

1.23-10	8.58-11	1.59-10	3.63-10	2.48-13	3.70-18	1.19-18	1.61-11	5.41-12
4.67-11	5.96-10	1.87-10	1.56-10	6.88-12	2.20-14	3.20-22	2.67-11	1.40-11
2.26-10	3.69-11	2.82-10	9.80-11	1.12-11	3.19-17	6.57-23	3.21-11	1.03-11
1.89-10	3.59-10	1.11-10	9.68-11	6.24-11	4.42-17	2.92-24	4.71-11	1.46-11
1.67-10	6.94-10	7.76-10	1.12-10	2.25-12	6.81-16	1.97-21	1.30-10	8.01-11
1.02-09	2.05-10	3.25-10	6.43-11	1.02-11	1.28-18	1.12-29	7.41-11	3.57-11
5.58-10	1.92-10	7.18-10	1.03-10	6.69-11	1.02-15	1.12-22	8.71-11	1.90-11
9.13-10	1.08-09	5.81-10	4.41-11	2.55-12	4.01-15	2.33-21	1.26-10	3.01-11
7.73-10	3.69-10	4.28-10	3.27-10	3.96-11	2.15-16	6.76-22	2.34-10	8.55-11
2.07-10	1.26-09	3.97-10	3.87-11	3.87-12	3.02-16	6.71-24	1.20-10	3.61-11
9.15-10	8.82-10	8.32-10	2.42-10	5.63-11	5.42-15	7.28-20		
2.20-10	2.15-10	1.88-10	6.39-11	2.84-11	3.94-15	7.16-20	1.75-10	2.69-11

PHI 90 TO 135 DEGREES

2.71-10	9.88-11	4.63-11	2.82-11	1.26-12	1.53-13	4.95-25	1.33-11	7.92-12
8.22-11	3.99-09	8.91-11	8.70-11	6.75-11	6.51-17	2.52-21	4.13-10	3.03-10
1.11-10	3.60-10	3.73-11	2.68-10	2.42-11	5.11-15	5.00-27	5.22-11	1.94-11
1.05-09	7.37-11	2.17-10	1.33-10	3.53-11	9.45-15	2.15-24	5.05-11	3.13-11
9.19-09	1.18-10	4.82-10	1.21-10	5.15-11	6.88-17	3.08-25	3.55-10	3.22-10
5.00-10	1.07-09	3.12-10	1.14-11	3.39-10	3.36-16	3.26-23	7.67-11	2.79-11
2.97-10	1.56-10	2.84-10	6.57-11	3.45-11	1.75-14	8.39-24	6.06-11	1.85-11
6.93-10	3.54-10	7.17-10	1.18-10	7.38-11	1.15-13	3.86-21	7.22-11	1.55-11
1.01-09	2.67-10	2.70-10	1.69-10	1.37-11	9.60-19	9.76-26	1.96-10	1.20-10
6.80-10	2.24-09	1.56-10	2.57-11	1.50-12	9.85-17	9.10-24	2.09-10	1.13-10
2.58-09	1.35-09	5.77-10	2.38-10	1.31-10	5.02-14	1.47-21		
1.84-09	7.13-10	1.41-10	8.81-11	7.17-11	3.27-14	1.09-21	2.63-10	8.89-11

PHI 135 TO 180 DEGREES

3.30-11	2.02-10	1.65-10	1.69-09	4.30-12	6.93-21	8.30-29	2.70-11	1.39-11
1.57-10	1.72-10	3.26-09	1.97-10	1.30-11	6.23-17	7.41-24	8.42-11	6.15-11
2.49-10	1.67-09	2.58-10	1.14-10	2.87-11	2.58-16	3.47-27	6.61-11	3.29-11
1.11-09	1.79-10	5.25-10	3.45-10	1.24-11	7.74-16	1.17-25	7.30-11	3.88-11
4.75-10	2.80-10	2.71-10	5.14-12	1.06-10	1.08-16	6.21-25	3.71-11	9.99-12
1.73-10	2.14-10	1.33-10	4.88-11	2.24-11	1.94-15	2.12-22	2.54-11	7.86-12
7.31-10	2.52-10	8.03-11	2.50-10	1.89-11	1.35-14	1.51-20	8.84-11	3.11-11
1.86-10	1.86-10	3.81-10	7.09-11	1.13-11	5.97-16	1.88-23	3.22-11	7.77-12
4.43-10	2.27-10	8.08-11	6.36-11	1.54-11	2.18-17	3.82-25	1.32-10	8.54-11
2.11-10	2.81-10	1.74-10	1.15-10	3.04-12	6.21-15	3.92-24	3.17-10	1.87-10
9.44-10	8.18-10	1.03-09	4.07-10	4.85-11	5.64-15	4.96-21		
3.59-10	3.61-10	5.63-10	1.72-10	1.75-11	4.40-15	4.79-21	1.48-10	3.05-11
							2.82-08	2.71-09

AIR SCATTERING 4.24 02 ENERGY 2.00 ANGLE 6.00 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.9T-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	1.47-07	4.27-08	0.	0.	0.
4.00 01	0.	0.	0.	0.	5.88-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	3.66-09	3.89-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	3.00-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	2.56-08	0.	0.
1.00 02	0.	0.	0.	0.	0.	2.07-09	3.36-08	0.
1.20 02	0.	0.	0.	0.	0.	0.	2.27-08	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	8.89-09	1.38-08	2.50-08	1.32-08	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	9.38-08	2.72-08	0.	0.	2.29-10
4.00 01	0.	0.	0.	0.	3.74-08	3.71-09	1.03-08	4.26-09
6.00 01	0.	0.	0.	0.	4.62-09	2.48-08	2.92-09	3.10-09
8.00 01	0.	0.	0.	0.	0.	1.91-08	1.36-09	7.08-10
9.00 01	0.	0.	0.	0.	0.	1.63-08	6.05-10	1.14-09
1.00 02	0.	0.	0.	0.	0.	1.32-09	2.63-08	1.14-09
1.20 02	0.	0.	0.	0.	0.	2.05-10	1.88-08	1.48-09
1.40 02	0.	0.	0.	0.	0.	1.74-12	1.41-09	1.21-09
1.60 02	0.	0.	0.	0.	0.	4.43-13	7.84-10	2.93-10
1.80 02	0.	0.	0.	0.	0.	0.	2.95-10	9.43-11
	0.	0.	0.	5.66-09	9.37-09	1.66-08	1.44-08	3.08-09
	0.	0.	0.	1.37-09	1.98-09	2.05-09	2.03-09	9.52-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	5.19-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.38-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.71-10
8.00 01	0.	0.	0.	0.	0.	0.	7.64-11	8.83-10
9.00 01	0.	0.	0.	0.	0.	0.	1.51-09	5.82-10
1.00 02	0.	0.	0.	0.	0.	0.	6.58-11	1.65-09
1.20 02	0.	0.	0.	0.	0.	1.13-11	2.99-10	3.12-10
1.40 02	0.	0.	0.	0.	0.	5.31-11	2.60-10	1.01-09
1.60 02	0.	0.	0.	0.	0.	2.04-11	2.92-09	1.04-10
1.80 02	0.	0.	0.	0.	0.	4.53-13	5.31-10	1.18-10
	0.	0.	0.	0.	0.	2.14-11	1.01-09	1.43-09
	0.	0.	0.	0.	0.	1.50-11	5.46-10	3.54-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	7.19-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.45-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.62-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	5.90-10
9.00 01	0.	0.	0.	0.	0.	0.	2.07-12	3.06-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	6.05-10
1.20 02	0.	0.	0.	0.	0.	3.23-11	2.52-12	3.07-10
1.40 02	0.	0.	0.	0.	0.	1.69-12	1.40-11	5.14-10
1.60 02	0.	0.	0.	0.	0.	1.86-14	4.25-11	5.93-11
1.80 02	0.	0.	0.	0.	0.	0.	5.64-11	3.91-10
	0.	0.	0.	0.	0.	1.10-11	1.57-11	7.16-10
	0.	0.	0.	0.	0.	8.27-12	8.20-12	2.15-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	3.14-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.57-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.87-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.49-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.99-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.00-09
1.20 02	0.	0.	0.	0.	0.	1.10-14	0.	6.00-10
1.40 02	0.	0.	0.	0.	0.	0.	4.17-12	3.06-10
1.60 02	0.	0.	0.	0.	0.	0.	1.64-11	9.74-10
1.80 02	0.	0.	0.	0.	0.	0.	5.34-13	3.91-11
	0.	0.	0.	0.	0.	3.58-15	3.98-12	1.06-09
	0.	0.	0.	0.	0.	3.58-15	2.31-12	3.12-10

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AIR SCATTERING 4.24 02 ENERGY 2.00 ANGLE 6.00 01 DIST. 6.10 02
3.70 01 1.75 03 0. 0. 5.36 04 5.00 01 1.80 03

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	3.59-08
0.	0.	0.	0.	0.	0.	0.	8.81-09
0.	0.	0.	0.	0.	0.	0.	4.83-09
0.	0.	0.	0.	0.	0.	0.	3.30-09
0.	0.	0.	0.	0.	0.	0.	2.82-09
0.	0.	0.	0.	0.	0.	0.	2.58-09
0.	0.	0.	0.	0.	0.	0.	1.59-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							7.51-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
3.03-11	3.25-11	5.58-10	1.81-10	1.26-12	7.46-18	2.47-28	2.29-08	4.06-09
7.15-10	1.12-10	1.23-11	7.98-12	3.73-12	3.56-15	3.12-26	6.99-09	1.70-09
2.42-10	2.22-10	1.78-10	4.08-11	4.61-12	1.28-16	5.76-24	3.80-09	9.46-10
3.56-10	2.30-10	1.77-10	7.49-11	7.13-12	1.96-15	1.32-21	2.26-09	3.89-10
8.15-09	4.15-10	4.93-10	5.02-11	4.52-12	6.25-17	3.77-20	2.20-09	4.30-10
4.85-10	3.52-10	1.30-10	1.67-10	2.40-11	1.28-15	2.50-22	2.07-09	2.71-10
1.27-09	8.51-10	2.27-10	1.63-10	9.08-12	2.77-16	2.58-24	1.49-09	1.07-10
1.18-09	7.79-10	1.00-10	6.32-11	6.60-12	9.94-15	5.42-22	2.23-10	4.39-11
2.51-10	9.79-10	3.28-10	4.81-11	3.31-11	1.19-13	6.94-21	1.35-10	3.86-11
8.13-10	3.85-09	2.18-10	1.95-10	2.03-12	2.21-18	2.14-29	1.53-10	9.14-11
2.75-09	1.18-09	3.85-10	1.76-10	1.98-11	2.49-14	8.37-21		
1.40-09	2.95-10	7.67-11	4.13-11	6.74-12	2.29-14	6.70-21	5.66-09	5.20-10

PHI 45 TO 90 DEGREES

2.72-10	7.54-12	2.03-11	6.08-10	7.37-11	1.63-15	1.91-23	4.31-11	1.00-11
2.17-10	1.88-10	1.12-10	3.14-11	7.31-12	8.51-17	1.04-21	8.38-11	6.46-11
5.41-10	2.11-10	5.06-10	1.69-11	1.75-11	1.01-15	9.02-24	4.46-11	1.15-11
2.65-10	2.91-10	3.56-10	7.03-11	1.79-12	1.48-15	1.43-22	7.34-11	2.59-11
3.97-10	9.85-11	3.01-10	8.30-11	1.55-12	8.16-15	1.51-25	1.57-10	8.75-11
4.24-10	2.10-10	5.31-11	3.13-11	3.10-12	3.81-17	2.82-22	1.09-10	5.08-11
2.05-09	2.95-10	2.78-10	1.08-10	1.88-12	1.09-14	3.50-19	1.26-10	5.39-11
2.91-10	8.82-10	5.01-10	1.02-10	6.90-12	1.42-16	1.42-22	1.15-10	3.26-11
1.32-10	2.71-10	6.09-11	5.16-11	2.54-12	9.98-16	5.81-19	2.29-10	1.99-10
2.84-10	2.07-11	1.26-10	2.46-10	6.94-13	1.67-18	4.00-23	5.24-11	4.01-11
1.22-09	5.15-10	4.62-10	1.76-10	1.47-11	5.39-15	2.33-19		
4.75-10	1.48-10	1.31-10	4.91-11	6.63-12	3.67-15	1.64-19	2.14-10	4.92-11

PHI 90 TO 135 DEGREES

6.37-10	3.34-11	1.66-10	1.83-11	9.13-14	1.94-15	1.86-20	7.05-11	3.07-11
5.73-10	5.62-11	1.12-10	1.11-10	4.98-12	3.75-16	3.54-24	2.76-11	1.45-11
1.16-09	7.12-10	1.60-10	1.28-10	2.90-13	2.83-16	1.28-22	7.62-11	3.41-11
5.77-10	5.09-11	4.77-10	4.42-10	1.01-11	1.03-14	8.06-25	6.56-11	2.99-11
8.17-10	1.57-10	1.01-10	1.27-10	1.42-10	3.29-17	1.83-24	5.34-11	2.89-11
1.30-10	4.18-10	1.24-10	2.58-10	3.57-12	1.69-16	1.88-23	4.52-11	2.73-11
1.12-09	4.72-10	7.34-10	1.28-10	5.62-12	5.36-16	4.60-25	8.20-11	3.24-11
5.15-10	1.69-10	5.94-11	5.13-11	3.24-12	5.70-16	7.78-26	5.11-11	1.75-11
2.14-10	1.80-10	1.75-10	3.28-11	3.53-11	3.29-16	1.85-25	2.22-11	8.65-12
5.86-11	1.92-10	2.41-10	3.11-11	1.24-12	7.16-20	2.88-20	3.54-11	1.58-11
1.35-09	5.13-10	5.67-10	3.29-10	3.85-11	4.04-15	2.90-21		
4.19-10	4.25-10	2.16-10	1.46-10	2.34-11	3.18-15	2.07-21	1.14-10	2.26-11

PHI 135 TO 180 DEGREES

5.79-11	8.44-11	5.33-11	8.13-12	1.01-13	1.70-21	2.80-25	1.62-10	1.49-10
2.77-10	8.31-11	1.35-10	2.54-11	1.05-12	6.36-17	1.06-22	3.28-11	1.09-11
9.45-11	3.58-10	1.58-10	1.16-10	2.35-12	6.02-15	2.37-23	2.57-11	7.52-12
5.77-11	3.01-10	1.56-10	7.78-11	7.50-12	2.61-16	5.81-22	2.07-11	5.86-12
7.24-11	3.22-10	1.74-10	1.53-10	7.87-13	3.22-18	4.45-26	4.03-11	1.51-11
8.07-11	4.31-11	1.17-10	1.95-10	1.56-11	2.21-16	1.70-25	5.85-11	3.66-11
2.28-10	9.83-10	1.28-10	1.99-10	2.49-12	2.43-16	3.07-27	6.64-11	2.72-11
7.19-10	3.20-10	5.61-10	8.76-11	6.26-11	2.74-16	8.87-28	6.19-11	2.20-11
5.36-11	2.23-11	1.22-10	2.62-11	6.17-12	1.12-19	2.66-27	5.51-11	4.14-11
1.35-10	5.58-10	1.93-10	7.07-12	8.57-13	2.91-18	1.56-21	2.04-11	6.09-12
4.03-10	7.08-10	3.94-10	2.15-10	2.47-11	1.91-15	3.09-22		
1.41-10	2.59-10	1.43-10	1.01-10	1.59-11	1.48-15	1.65-22	9.52-11	1.90-11
							9.55-09	8.47-10

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AIR SCATTERING  4.25 02 ENERGY  2.00      ANGLE    9.00 01   DIST.   6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

                        FIRST                        COLLISION

            2.00      1.40      1.00      7.00-01   5.00-01   3.50-01   2.40-01   1.70-01

2.00 01     0.        0.        0.        0.        7.76-08   7.49-08   0.        0.
4.00 01     0.        0.        0.        0.        0.        5.21-08   0.        0.
6.00 01     0.        0.        0.        0.        0.        3.02-08   0.        0.
8.00 01     0.        0.        0.        0.        0.        8.05-10   2.84-08   0.
9.00 01     0.        0.        0.        0.        0.        0.        9.36-09   0.
1.00 02     0.        0.        0.        0.        0.        0.        0.        0.
1.20 02     0.        0.        0.        0.        0.        0.        0.        0.
1.40 02     0.        0.        0.        0.        0.        0.        0.        0.
1.60 02     0.        0.        0.        0.        0.        0.        0.        0.
1.80 02     0.        0.        0.        0.        0.        0.        0.        0.

            0.        0.        0.        0.        4.68-09   2.19-08   1.09-08   0.

                     MULTIPLE                        COLLISIONS

                       PHI          0     TO     45     DEGREES

            2.00      1.40      1.00      7.00-01   5.00-01   3.50-01   2.40-01   1.70-01

2.00 01     0.        0.        0.        0.        4.94-08   4.77-08   0.        2.85-09
4.00 01     0.        0.        0.        0.        0.        3.48-08   6.39-11   1.78-09
6.00 01     0.        0.        0.        0.        0.        1.92-08   1.32-09   5.43-09
8.00 01     0.        0.        0.        0.        0.        5.13-10   2.21-08   5.59-10
9.00 01     0.        0.        0.        0.        0.        3.86-11   9.57-09   6.10-10
1.00 02     0.        0.        0.        0.        0.        2.54-13   2.96-09   9.38-10
1.20 02     0.        0.        0.        0.        0.        4.42-14   1.23-09   5.17-10
1.40 02     0.        0.        0.        0.        0.        0.        2.62-10   3.28-10
1.60 02     0.        0.        0.        0.        0.        4.99-13   1.94-10   4.48-10
1.80 02     0.        0.        0.        0.        0.        0.        9.59-13   5.12-11

            0.        0.        0.        0.        2.98-09   1.42-08   1.03-08   2.71-09
            0.        0.        0.        0.        8.58-10   1.65-09   7.09-10   1.42-09

                       PHI         45     TO     90     DEGREES

2.00 01     0.        0.        0.        0.        0.        0.        0.        3.97-09
4.00 01     0.        0.        0.        0.        0.        0.        8.89-14   6.58-10
6.00 01     0.        0.        0.        0.        0.        0.        2.95-10   3.75-10
8.00 01     0.        0.        0.        0.        0.        0.        3.83-10   2.62-09
9.00 01     0.        0.        0.        0.        0.        0.        5.50-11   2.90-10
1.00 02     0.        0.        0.        0.        0.        0.        1.06-10   5.03-10
1.20 02     0.        0.        0.        0.        0.        0.        1.18-10   3.12-10
1.40 02     0.        0.        0.        0.        0.        0.        2.90-11   7.00-10
1.60 02     0.        0.        0.        0.        0.        2.99-11   1.22-16   4.02-10
1.80 02     0.        0.        0.        0.        0.        0.        0.        4.57-10

            0.        0.        0.        0.        0.        5.20-12   2.77-10   1.83-09
            0.        0.        0.        0.        0.        5.20-12   1.10-10   6.54-10

                       PHI         90     TO    135     DEGREES

2.00 01     0.        0.        0.        0.        0.        0.        0.        3.38-09
4.00 01     0.        0.        0.        0.        0.        0.        0.        4.10-10
6.00 01     0.        0.        0.        0.        0.        0.        0.        7.14-10
8.00 01     0.        0.        0.        0.        0.        0.        0.        5.77-11
9.00 01     0.        0.        0.        0.        0.        0.        0.        3.73-10
1.00 02     0.        0.        0.        0.        0.        0.        0.        1.34-10
1.20 02     0.        0.        0.        0.        0.        1.14-11   6.02-12   1.49-09
1.40 02     0.        0.        0.        0.        0.        2.01-13   1.70-11   2.21-10
1.60 02     0.        0.        0.        0.        0.        0.        0.        2.38-10
1.80 02     0.        0.        0.        0.        0.        0.        0.        4.52-12

            0.        0.        0.        0.        0.        3.76-12   6.49-12   1.16-09
            0.        0.        0.        0.        0.        3.71-12   4.30-12   3.59-10

                       PHI        135     TO    180     DEGREES

2.00 01     0.        0.        0.        0.        0.        0.        0.        1.61-10
4.00 01     0.        0.        0.        0.        0.        0.        0.        2.78-09
6.00 01     0.        0.        0.        0.        0.        0.        0.        3.57-10
8.00 01     0.        0.        0.        0.        0.        0.        0.        2.88-10
9.00 01     0.        0.        0.        0.        0.        0.        0.        6.32-10
1.00 02     0.        0.        0.        0.        0.        0.        5.47-11   7.14-10
1.20 02     0.        0.        0.        0.        0.        0.        3.08-11   1.33-11
1.40 02     0.        0.        0.        0.        0.        0.        2.23-11   2.17-10
1.60 02     0.        0.        0.        0.        0.        0.        0.        5.44-10
1.80 02     0.        0.        0.        0.        0.        0.        1.95-12   2.10-10

            0.        0.        0.        0.        0.        0.        2.56-11   1.08-09
            0.        0.        0.        0.        0.        0.        1.50-11   3.62-10

251253045035          034540160565
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AIR SCATTERING 4.25 02 ENERGY 2.00 ANGLE 9.00 01 DIST. 6.10 02
4.30 01 1.74 03 0. 0. 5.38 04 5.00 01 1.80 03

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	1.99-08
0.	0.	0.	0.	0.	0.	0.	5.73-09
0.	0.	0.	0.	0.	0.	0.	3.32-09
0.	0.	0.	0.	0.	0.	0.	2.08-09
0.	0.	0.	0.	0.	0.	0.	6.55-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							3.87-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
2.31-09	1.48-09	3.11-10	3.22-10	1.35-11	1.19-17	2.88-24	1.29-08	2.72-09
4.55-10	5.55-10	1.65-10	7.89-11	5.98-11	1.70-15	3.45-24	3.96-09	7.17-10
6.69-10	2.76-10	3.07-10	9.25-11	1.20-10	1.65-14	2.43-24	2.52-09	4.20-10
1.06-09	6.11-10	4.03-10	1.30-09	6.50-11	3.16-15	1.01-21	1.71-09	1.41-10
2.36-09	1.77-09	1.64-10	2.62-10	2.98-12	5.20-14	1.21-22	8.38-10	1.04-10
6.88-10	1.86-09	9.12-09	4.63-09	2.69-11	2.18-15	3.98-20	5.53-10	2.29-10
4.56-10	1.19-09	2.78-09	2.36-10	9.68-11	2.47-15	2.89-23	2.16-10	6.85-11
5.34-10	1.14-09	2.13-10	1.00-10	1.60-11	1.28-16	7.08-20	8.68-11	1.76-11
1.71-10	3.03-10	1.38-09	3.42-10	1.99-11	3.61-17	1.80-24	8.07-11	2.69-11
1.02-10	4.56-11	7.33-11	1.95-10	2.73-13	3.77-17	1.28-26	1.08-11	3.87-12
1.60-09	1.84-09	3.08-09	1.50-09	1.09-10	1.60-14	2.61-20		
3.34-10	4.20-10	2.35-09	1.14-09	4.66-11	1.00-14	2.00-20	3.04-09	2.51-10

PHI 45 TO 90 DEGREES

1.41-10	2.17-09	4.43-11	1.12-10	7.35-12	4.65-19	1.60-31	2.58-10	1.32-10
2.40-10	1.18-10	1.17-10	5.91-11	4.58-11	8.46-16	1.47-26	4.77-11	2.04-11
1.10-09	1.49-09	3.86-10	1.46-10	7.20-12	2.97-15	6.64-23	1.24-10	3.38-11
2.96-10	2.89-10	4.24-10	9.95-11	1.25-11	3.43-16	2.94-24	1.85-10	9.75-11
2.20-09	1.76-10	5.76-10	4.46-10	4.54-12	9.05-17	3.69-23	1.18-10	6.43-11
5.00-10	1.38-10	7.99-11	1.46-10	1.44-11	3.38-15	2.67-25	5.70-11	1.71-11
4.25-10	7.17-10	5.19-10	5.24-11	3.61-11	2.50-15	9.86-19	6.83-11	1.56-11
1.63-10	1.13-09	2.18-10	2.09-11	5.30-11	1.68-15	5.42-21	7.50-11	2.18-11
3.50-11	1.55-10	2.58-10	1.02-09	6.22-13	3.74-17	5.25-20	4.37-11	1.32-11
5.87-12	1.66-10	3.84-10	2.04-10	3.13-11	7.44-20	1.01-28	3.71-11	2.08-11
1.10-09	1.27-09	6.73-10	4.03-10	4.55-11	2.92-15	3.32-19		
3.59-10	2.94-10	1.66-10	1.39-10	1.86-11	1.14-15	3.31-19	2.00-10	4.60-11

PHI 90 TO 135 DEGREES

2.00-09	8.64-10	1.98-10	1.54-10	1.25-13	5.66-20	8.20-33	2.67-10	1.27-10
1.40-10	1.65-10	9.83-11	2.02-11	3.46-12	4.17-15	1.16-25	3.17-11	1.04-11
8.15-11	4.62-10	1.74-10	4.06-11	1.00-11	3.22-15	5.07-23	5.37-11	2.62-11
5.17-10	2.06-10	3.45-10	1.49-11	3.81-12	1.89-15	1.15-24	3.35-11	1.54-11
8.82-11	1.31-10	3.34-10	7.55-11	5.02-12	1.64-14	3.55-24	3.24-11	1.41-11
1.26-10	1.78-09	4.30-11	9.60-11	4.22-12	4.49-15	2.02-23	5.57-11	4.18-11
1.16-10	1.56-10	4.27-10	5.70-11	9.75-12	5.42-15	7.72-21	9.33-11	4.28-11
1.71-10	1.01-09	2.35-10	1.75-10	8.05-12	2.63-16	7.53-20	4.91-11	2.33-11
1.54-10	1.57-10	6.33-11	2.59-11	1.64-11	2.36-15	4.18-26	2.29-11	8.27-12
9.95-11	4.38-12	3.54-11	5.66-11	8.95-13	2.96-18	8.77-27	5.19-12	2.69-12
4.88-10	9.49-10	4.68-10	1.31-10	1.44-11	8.07-15	2.26-20		
1.54-10	3.98-10	1.27-10	3.68-11	3.99-12	4.00-15	2.02-20	1.10-10	2.30-11

PHI 135 TO 180 DEGREES

4.11-10	4.48-09	3.18-10	3.83-10	7.48-13	1.14-19	1.66-30	1.41-10	8.12-11
2.95-09	6.54-10	5.00-11	3.01-10	4.46-12	4.42-17	2.59-26	2.65-10	1.29-10
1.48-10	1.21-10	3.70-10	8.52-11	8.92-12	5.46-19	1.65-19	3.42-11	1.25-11
3.72-10	2.74-09	1.85-10	2.31-11	3.43-12	4.20-15	8.52-23	9.75-11	5.80-11
3.31-10	1.86-11	1.99-10	2.55-11	6.67-12	3.00-17	9.26-25	4.83-11	1.91-11
1.41-10	5.66-11	8.97-10	7.51-11	5.16-13	2.81-16	7.87-25	6.07-11	3.19-11
4.08-10	2.72-10	5.26-10	4.42-11	2.48-11	2.40-17	1.61-25	3.53-11	1.38-11
5.48-11	2.22-10	7.66-10	1.02-09	1.28-11	1.29-15	2.50-24	4.54-11	1.58-11
2.86-09	2.29-11	1.29-09	1.55-09	3.37-12	1.34-15	9.81-26	1.65-10	8.04-11
1.97-11	7.91-11	6.45-10	2.42-10	9.68-13	6.03-17	2.90-25	2.86-11	1.61-11
1.39-09	1.48-09	9.81-10	6.87-10	1.77-11	2.02-15	4.39-20		
5.34-10	8.01-10	4.05-10	3.02-10	7.66-12	1.45-15	4.39-20	1.68-10	3.54-11
							5.53-09	4.36-10

AIR SCATTERING 4.26 02 ENERGY 2.00 ANGLE 1.35 02 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	0.	0.	1.51-07	6.08-08	0.
4.00 01	0.	0.	0.	0.	0.	0.	8.09-08	0.
6.00 01	0.	0.	0.	0.	0.	0.	2.83-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	9.12-09	1.85-08	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	0.	0.	9.63-08	5.40-08	2.08-09
4.00 01	0.	0.	0.	0.	0.	3.53-10	5.69-08	3.54-09
6.00 01	0.	0.	0.	0.	0.	5.00-11	3.85-09	4.62-10
8.00 01	0.	0.	0.	0.	0.	3.65-14	9.45-10	2.28-10
9.00 01	0.	0.	0.	0.	0.	0.	2.06-10	2.97-10
1.00 02	0.	0.	0.	0.	0.	0.	2.50-10	3.97-10
1.20 02	0.	0.	0.	0.	0.	0.	3.43-11	4.54-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	6.69-10
1.60 02	0.	0.	0.	0.	0.	0.	3.64-14	1.85-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	4.34-11
	0.	0.	0.	0.	0.	5.88-09	1.46-08	1.42-09
	0.	0.	0.	0.	0.	1.03-09	1.22-09	5.33-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	4.53-09	2.96-10
4.00 01	0.	0.	0.	0.	0.	0.	2.23-09	5.24-10
6.00 01	0.	0.	0.	0.	0.	0.	9.47-10	1.35-10
8.00 01	0.	0.	0.	0.	0.	7.32-14	2.63-10	1.55-10
9.00 01	0.	0.	0.	0.	0.	6.29-11	1.05-10	2.81-10
1.00 02	0.	0.	0.	0.	0.	0.	7.67-12	9.82-11
1.20 02	0.	0.	0.	0.	0.	0.	7.60-15	8.04-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	7.48-10
1.60 02	0.	0.	0.	0.	0.	0.	1.22-11	1.62-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	1.10-11	1.02-09	7.50-10
	0.	0.	0.	0.	0.	7.75-12	3.19-10	1.91-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.23-09	2.70-09
4.00 01	0.	0.	0.	0.	0.	0.	3.33-10	1.26-09
6.00 01	0.	0.	0.	0.	0.	2.92-12	1.93-11	2.80-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.02-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.02-10
1.00 02	0.	0.	0.	0.	0.	1.72-11	0.	6.71-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	6.16-10
1.40 02	0.	0.	0.	0.	0.	0.	1.49-11	5.97-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.21-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	3.45-10
	0.	0.	0.	0.	0.	3.76-12	1.41-10	1.15-09
	0.	0.	0.	0.	0.	3.08-12	5.72-11	2.95-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.60-10	6.04-09
4.00 01	0.	0.	0.	0.	0.	0.	1.67-10	2.86-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	5.10-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.46-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.14-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.01-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.09-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	7.54-11
1.60 02	0.	0.	0.	0.	0.	0.	6.95-12	1.58-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	3.05-10
	0.	0.	0.	0.	0.	0.	4.58-11	1.52-09
	0.	0.	0.	0.	0.	0.	2.82-11	4.61-10

034540160565 343404533321

AIR SCATTERING 4.26 02 ENERGY 2.00 ANGLE 1.35 02 DIST. 6.10 02
3.40 01 1.75 03 0. 0. 5.32 04 5.00 01 1.80 03

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	2.09-08
0.	0.	0.	0.	0.	0.	0.	5.67-09
0.	0.	0.	0.	0.	0.	0.	1.98-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	2.30-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
1.69-10	2.42-10	2.60-10	2.00-11	9.40-13	3.52-18	2.74-27	1.45-08	2.32-09
7.68-10	1.51-10	3.18-10	3.34-11	8.53-13	1.68-16	4.36-22	4.24-09	3.43-10
9.45-10	4.98-10	3.76-10	1.47-09	4.19-12	2.21-15	1.80-22	3.67-10	3.46-11
6.13-10	7.32-10	1.94-10	1.38-10	1.92-11	3.78-15	1.19-23	1.23-10	2.95-11
3.67-10	5.57-10	5.26-10	1.44-10	6.51-12	5.66-12	3.91-23	6.79-11	1.69-11
1.06-09	3.67-10	3.03-10	2.78-10	3.84-12	5.25-15	4.70-22	9.32-11	3.87-11
2.76-10	1.73-10	5.94-10	8.77-11	1.04-11	1.42-14	1.69-23	5.21-11	1.36-11
1.64-10	3.35-10	8.30-10	6.60-11	5.88-12	6.34-15	5.74-25	6.47-11	2.25-11
4.59-11	1.61-10	6.84-11	2.07-10	2.09-11	6.35-16	1.14-28	1.84-11	5.74-12
1.29-11	2.44-11	8.31-12	5.67-10	5.15-14	6.36-20	9.55-33	9.05-12	6.08-12
9.85-10	7.48-10	8.05-10	6.33-10	1.80-11	9.92-13	2.21-22		
1.99-10	1.38-10	1.93-10	3.89-10	5.93-12	9.82-13	1.13-22	1.81-09	1.56-10

PHI 45 TO 90 DEGREES

2.49-10	1.85-10	4.64-10	3.57-11	2.59-12	5.34-19	1.98-27	3.55-10	2.06-10
8.91-10	4.01-10	1.25-10	6.20-11	1.16-11	2.15-14	1.54-23	2.27-10	8.13-11
5.88-10	3.60-10	7.58-10	6.60-11	2.59-12	2.40-16	2.50-22	1.19-10	4.79-11
6.56-10	1.64-10	3.11-10	2.18-10	1.10-11	5.57-15	1.35-19	6.22-11	2.05-11
7.91-11	4.00-10	1.26-10	5.44-10	2.15-12	3.54-15	4.06-19	4.87-11	1.33-11
1.26-10	1.72-10	4.88-10	3.07-11	1.53-11	6.91-15	7.21-25	2.43-11	7.90-12
1.83-10	2.54-10	1.93-10	1.74-10	5.59-11	1.65-14	1.65-22	5.90-11	2.08-11
2.95-09	6.71-10	1.36-10	1.01-10	2.76-11	6.14-14	2.70-24	1.64-10	9.66-11
7.89-11	2.83-10	1.84-10	2.63-10	2.98-12	5.07-17	3.21-31	2.49-11	1.16-11
3.86-11	2.17-13	1.26-10	7.57-10	2.52-12	6.90-18	1.76-37	1.15-11	7.73-12
1.44-09	6.40-10	5.98-10	3.76-10	3.57-11	2.91-14	1.15-19		
6.97-10	1.37-10	1.83-10	1.25-10	2.01-11	1.54-14	8.75-20	1.93-10	3.66-11

PHI 90 TO 135 DEGREES

6.11-10	1.54-10	2.14-10	3.72-11	1.46-12	2.36-18	3.38-26	2.52-10	1.18-10
5.13-10	1.70-10	2.03-10	5.36-11	6.58-13	7.00-17	5.00-28	1.14-10	3.69-11
2.03-10	3.28-10	2.20-10	1.55-10	2.78-11	1.11-16	1.33-23	3.71-11	1.01-11
1.06-10	2.82-10	3.62-10	1.09-10	7.76-12	7.09-13	1.23-23	6.99-11	2.90-11
1.84-10	1.30-10	3.22-10	2.09-10	5.33-12	3.14-14	4.36-23	3.84-11	1.14-11
5.07-10	2.24-10	5.98-11	8.14-11	4.19-12	2.22-15	1.86-21	3.09-11	1.66-11
3.31-10	2.63-10	2.12-10	3.98-11	2.31-11	4.13-15	1.33-25	5.39-11	2.30-11
1.34-10	8.10-11	8.58-11	5.16-11	4.49-12	7.17-15	1.02-23	1.31-11	2.94-12
4.10-10	1.61-10	4.52-10	9.05-11	2.84-11	3.63-17	3.50-27	3.99-11	1.26-11
8.00-11	1.00-10	4.28-11	7.43-11	9.81-12	9.31-19	3.46-30	2.42-11	1.25-11
5.55-10	4.21-10	4.64-10	1.85-10	2.60-11	2.40-13	3.40-22		
1.29-10	1.03-10	9.42-11	4.58-11	9.78-12	2.36-13	3.26-22	1.09-10	1.66-11

PHI 135 TO 180 DEGREES

1.08-09	8.64-10	8.22-11	1.61-10	8.61-14	6.96-20	1.95-34	3.83-10	1.83-10
1.62-10	1.10-10	2.56-10	4.68-11	1.73-12	5.87-17	4.98-26	1.69-10	9.25-11
1.76-10	4.23-10	1.42-10	1.18-10	5.90-12	2.92-15	1.98-26	4.61-11	1.48-11
1.61-10	2.98-10	2.43-10	1.35-10	1.47-11	4.68-16	1.68-24	2.66-11	6.64-12
1.68-10	5.89-11	2.44-10	2.86-11	7.78-13	9.92-16	6.51-19	1.83-11	5.70-12
1.02-10	3.01-11	5.24-11	1.41-11	1.18-11	2.12-14	1.57-22	1.06-10	7.02-11
4.36-11	6.49-11	7.67-11	3.04-10	4.76-12	5.46-15	1.17-22	1.32-11	3.63-12
1.32-10	4.11-11	5.73-11	1.21-10	1.08-12	1.30-16	2.15-21	1.19-11	4.32-12
2.02-10	7.86-10	2.93-10	5.51-12	7.08-11	2.50-16	1.27-26	4.12-11	2.24-11
9.59-11	1.62-10	3.53-11	3.37-11	2.96-12	1.61-18	7.15-30	2.37-11	1.54-11
3.30-10	4.75-10	3.11-10	2.35-10	2.32-11	6.65-15	1.14-19		
7.26-11	1.57-10	7.19-11	9.06-11	1.52-11	5.46-15	1.13-19	1.11-10	2.41-11
							3.50-09	2.82-10

AIR SCATTERING 4.27 02 ENERGY 2.00 ANGLE 1.80 02 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	0.	0.	0.	4.65-07	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	2.80-08	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	0.	0.	8.62-12	3.04-07	6.50-09
4.00 01	0.	0.	0.	0.	0.	0.	8.11-10	2.31-10
6.00 01	0.	0.	0.	0.	0.	0.	6.77-10	3.76-10
8.00 01	0.	0.	0.	0.	0.	0.	3.26-12	1.42-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.00-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.22-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.03-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	5.38-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.37-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.86-13
	0.	0.	0.	0.	0.	5.20-13	1.87-08	1.11-09
	0.	0.	0.	0.	0.	5.20-13	1.60-09	3.96-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	3.42-13	6.73-09	8.06-10
4.00 01	0.	0.	0.	0.	0.	0.	2.17-09	2.10-10
6.00 01	0.	0.	0.	0.	0.	0.	2.52-09	2.82-10
8.00 01	0.	0.	0.	0.	0.	0.	7.03-12	7.40-10
9.00 01	0.	0.	0.	0.	0.	0.	3.93-12	4.95-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	8.20-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	9.91-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	7.84-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.11-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	2.06-14	1.46-09	6.25-10
	0.	0.	0.	0.	0.	1.17-14	5.14-10	1.61-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.14-11	5.80-09	5.53-10
4.00 01	0.	0.	0.	0.	0.	6.81-13	1.74-09	8.07-10
6.00 01	0.	0.	0.	0.	0.	0.	1.19-09	7.68-10
8.00 01	0.	0.	0.	0.	0.	3.12-13	3.97-12	1.56-09
9.00 01	0.	0.	0.	0.	0.	0.	1.93-13	1.03-10
1.00 02	0.	0.	0.	0.	0.	7.41-14	0.	2.18-10
1.20 02	0.	0.	0.	0.	0.	0.	2.67-13	1.04-09
1.40 02	0.	0.	0.	0.	0.	0.	5.05-12	1.99-10
1.60 02	0.	0.	0.	0.	0.	0.	1.49-13	5.19-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	9.18-13	9.72-10	1.43-09
	0.	0.	0.	0.	0.	7.02-13	2.80-10	3.56-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	4.67-13	8.49-09	9.87-10
4.00 01	0.	0.	0.	0.	0.	0.	2.61-09	6.97-10
6.00 01	0.	0.	0.	0.	0.	0.	2.48-10	6.33-10
8.00 01	0.	0.	0.	0.	0.	0.	9.58-11	1.84-10
9.00 01	0.	0.	0.	0.	0.	0.	5.08-12	2.14-10
1.00 02	0.	0.	0.	0.	0.	0.	7.27-11	9.96-11
1.20 02	0.	0.	0.	0.	0.	0.	5.23-12	9.48-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	5.60-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.31-10
1.80 02	0.	0.	0.	0.	0.	0.	4.53-14	1.16-14
	0.	0.	0.	0.	0.	2.82-14	1.08-09	6.66-10
	0.	0.	0.	0.	0.	1.93-14	3.44-10	1.98-10

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AIR SCATTERING 4.27 02 ENERGY 2.00 ANGLE 1.80 02 DIST. 6.10 02
4.40 01 1.75 03 0. 0. 5.33 04 5.00 01 1.80 03

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	3.25-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.96-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
6.11-09	3.85-10	2.82-10	4.20-11	1.12-11	7.01-19	6.19-26	2.19-08	1.90-09
2.10-09	1.26-09	3.89-10	1.86-10	3.69-11	3.04-15	3.56-24	1.84-10	5.19-11
1.05-09	3.07-10	4.66-10	1.20-10	1.45-11	6.99-16	6.14-23	1.22-10	4.22-11
1.17-10	9.64-11	2.69-10	2.70-10	9.46-12	1.22-16	2.59-22	2.20-11	4.36-12
3.25-10	2.11-10	1.92-10	2.33-10	1.53-11	4.21-15	1.66-25	7.31-11	3.21-11
4.54-10	1.74-10	9.80-11	3.57-11	2.04-11	3.36-15	9.11-28	3.91-11	1.46-11
2.00-10	2.09-10	6.15-10	9.20-11	3.67-11	1.60-14	3.91-20	4.59-11	1.20-11
5.10-11	6.84-10	1.25-10	5.75-11	2.16-11	7.81-15	1.90-19	4.85-11	2.08-11
1.04-10	1.02-10	8.17-11	2.98-11	4.91-12	1.76-17	9.57-28	1.50-11	6.20-12
1.08-11	3.21-12	1.61-10	3.16-10	7.27-11	1.51-14	2.19-29	7.58-12	2.88-12
1.28-09	6.89-10	6.04-10	2.71-10	4.32-11	1.03-14	6.33-20		
4.19-10	1.63-10	1.54-10	7.08-11	1.67-11	4.89-15	6.32-20	1.44-09	1.19-10

PHI 45 TO 90 DEGREES

8.72-10	3.32-10	4.25-09	7.56-10	3.38-12	9.70-18	3.74-27	6.48-10	1.85-10
2.05-10	2.73-10	2.11-10	5.38-11	2.62-11	2.12-16	1.55-21	1.81-10	6.49-11
2.46-10	4.41-10	2.02-10	1.33-10	1.62-11	7.73-14	1.44-22	2.16-10	1.23-10
3.72-10	2.30-10	2.20-10	2.44-10	1.08-10	1.51-14	1.71-19	6.43-11	2.01-11
3.04-10	1.84-10	3.95-10	4.78-11	1.17-10	1.15-15	8.34-21	2.77-11	7.21-12
3.66-10	4.78-10	1.88-10	6.40-11	3.57-11	6.89-15	4.08-23	7.04-11	3.13-11
9.21-10	7.79-10	4.66-10	4.68-11	1.05-10	2.36-15	6.27-21	6.76-11	2.86-11
6.38-10	9.70-10	4.12-10	2.10-10	4.18-12	4.81-16	1.78-24	6.06-11	3.56-11
3.18-11	2.83-10	1.32-10	2.55-11	5.40-11	6.41-16	1.43-23	1.69-11	6.27-12
7.17-11	1.19-11	1.22-11	7.47-10	4.22-11	4.54-22	3.87-32	1.10-11	5.59-12
8.71-10	9.49-10	8.06-10	3.10-10	1.18-10	2.79-14	5.96-20		
2.83-10	2.65-10	2.67-10	8.86-11	5.35-11	2.32-14	4.61-20	2.08-10	4.63-11

PHI 90 TO 135 DEGREES

3.33-09	1.21-09	7.93-10	1.79-10	3.56-11	2.30-16	6.49-28	6.02-10	1.27-10
4.40-10	1.70-09	2.16-10	1.21-10	2.09-11	3.13-15	2.18-26	2.32-10	6.82-11
4.54-10	6.41-10	3.36-10	8.22-11	6.60-11	1.18-14	6.94-24	1.69-10	6.73-11
3.51-10	3.32-10	2.14-10	3.89-10	4.93-12	2.10-15	5.11-21	1.07-10	4.45-11
1.38-10	3.89-10	8.96-10	6.82-11	2.14-11	1.83-16	2.16-26	3.90-11	1.41-11
4.83-11	1.24-10	1.00-10	1.20-10	2.95-11	7.11-16	1.79-24	1.91-11	8.80-12
1.26-10	5.45-10	1.46-09	1.27-10	6.41-12	6.22-19	5.93-22	1.01-10	3.72-11
2.11-10	2.66-10	9.40-09	2.14-11	9.85-12	4.87-16	1.20-19	2.13-10	1.84-10
4.02-10	2.65-10	1.49-10	8.90-11	2.02-12	2.51-17	5.30-22	5.07-11	2.12-11
7.66-12	4.36-13	4.45-10	1.90-10	3.75-13	1.24-19	8.67-30	1.11-11	5.38-12
8.04-10	1.03-09	3.45-09	2.88-10	3.89-11	4.87-15	3.39-20		
1.73-10	3.20-10	2.47-09	1.11-10	1.23-11	2.97-15	3.20-20	2.65-10	5.90-11

PHI 135 TO 180 DEGREES

1.11-09	7.34-10	3.43-10	4.41-11	2.00-12	6.38-18	2.06-25	7.08-10	3.05-10
7.33-10	5.46-10	6.76-10	1.23-10	4.44-11	5.72-14	6.26-22	2.72-10	9.86-11
1.04-09	3.72-10	2.18-10	2.22-10	6.91-12	2.48-14	1.22-22	1.02-10	2.53-11
5.06-10	9.07-10	2.04-10	1.49-10	1.79-11	6.35-15	1.33-17	6.16-11	1.85-11
4.71-10	4.52-10	1.97-10	1.47-10	1.73-11	1.83-17	4.53-21	4.45-11	1.92-11
1.07-09	2.82-10	1.89-10	3.24-09	3.55-12	8.74-17	2.42-19	9.17-11	3.93-11
3.85-10	2.95-10	4.83-10	1.36-10	5.89-12	5.63-15	3.20-25	3.71-11	1.23-11
6.65-11	1.46-09	9.46-10	2.29-11	1.39-11	4.86-14	4.50-24	8.48-11	4.29-11
3.25-12	1.45-09	9.74-10	1.65-10	2.15-12	1.59-15	5.20-22	6.27-11	3.67-11
2.40-10	2.53-11	6.59-11	5.48-10	5.67-13	2.03-16	5.41-23	1.61-11	8.21-12
1.06-09	1.40-09	9.12-10	8.33-10	2.52-11	3.37-14	4.38-18		
2.48-10	4.47-10	2.30-10	5.61-10	7.78-12	1.69-14	4.37-18	2.07-10	3.68-11
							3.33-09	2.54-10

AIR SCATTERING 4.28 02 ENERGY 1.00 ANGLE 1.00 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	5.51-05	0.	0.	0.	0.	0.	0.	0.
4.00 01	1.12-05	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	6.29-06	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	1.47-05	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	5.13-06	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	7.32-06	2.77-06	0.	0.
1.80 02	0.	0.	0.	0.	0.	2.88-05	0.	0.
	5.26-06	1.67-06	0.	2.55-06	2.95-06	2.22-06	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	3.51-05	0.	0.	0.	0.	0.	8.27-10	5.43-07
4.00 01	7.10-06	0.	0.	0.	0.	0.	3.33-10	8.92-10
6.00 01	0.	4.00-06	0.	0.	0.	0.	2.98-09	4.00-09
8.00 01	0.	0.	0.	0.	0.	0.	9.08-09	1.09-10
9.00 01	0.	0.	0.	9.34-06	0.	0.	1.46-09	2.18-10
1.00 02	0.	0.	0.	0.	0.	1.17-11	7.47-10	6.39-10
1.20 02	0.	0.	0.	0.	3.27-06	8.14-11	6.33-09	2.05-09
1.40 02	0.	0.	0.	0.	0.	5.03-09	3.34-09	6.36-10
1.60 02	0.	0.	0.	0.	4.66-06	1.78-06	8.77-10	1.01-09
1.80 02	0.	0.	0.	0.	1.05-11	1.85-05	4.24-10	8.86-10
	3.35-06	1.06-06	0.	1.62-06	1.88-06	1.42-06	7.38-09	3.52-08
	1.06-06	1.06-06	0.	1.62-06	1.22-06	4.31-07	2.58-09	3.28-08

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.68-10
4.00 01	0.	0.	0.	0.	0.	0.	4.71-10	4.10-09
6.00 01	0.	0.	0.	0.	0.	0.	9.55-09	7.96-10
8.00 01	0.	0.	0.	0.	0.	2.02-11	3.06-09	1.95-10
9.00 01	0.	0.	0.	0.	0.	5.47-12	2.92-10	5.87-11
1.00 02	0.	0.	0.	0.	0.	0.	1.58-09	3.36-10
1.20 02	0.	0.	0.	0.	0.	7.44-09	1.73-09	6.21-10
1.40 02	0.	0.	0.	0.	7.59-11	6.68-10	1.67-08	1.43-09
1.60 02	0.	0.	0.	3.07-14	2.27-10	5.45-09	6.88-10	2.62-09
1.80 02	0.	0.	0.	2.59-11	1.02-10	3.84-08	2.20-09	9.27-10
	0.	0.	0.	1.57-12	6.58-11	5.88-09	9.21-09	2.17-09
	0.	0.	0.	1.20-12	3.98-11	3.07-09	4.77-09	5.69-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	9.31-10
4.00 01	0.	0.	0.	0.	0.	0.	3.38-09	2.52-09
6.00 01	0.	0.	0.	0.	0.	0.	1.63-09	2.34-08
8.00 01	0.	0.	0.	0.	1.21-08	1.15-08	1.04-09	1.54-09
9.00 01	0.	0.	0.	0.	0.	3.30-12	5.95-09	4.62-10
1.00 02	0.	0.	0.	0.	0.	4.83-10	6.49-09	1.52-10
1.20 02	0.	0.	0.	0.	0.	1.58-11	2.50-09	4.93-10
1.40 02	0.	0.	0.	1.81-11	4.30-12	3.90-10	1.39-09	2.40-09
1.60 02	0.	0.	0.	1.88-11	2.38-11	3.52-09	1.80-10	6.54-10
1.80 02	0.	0.	3.83-12	3.55-11	1.64-11	4.58-08	2.70-10	8.30-10
	0.	0.	2.31-13	1.02-11	3.96-09	7.31-09	4.75-09	8.30-09
	0.	0.	2.31-13	5.94-12	3.96-09	4.27-09	1.23-09	5.80-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.14-10
4.00 01	0.	0.	0.	0.	0.	0.	4.28-10	8.17-10
6.00 01	0.	0.	0.	0.	0.	0.	8.10-10	1.27-09
8.00 01	0.	0.	0.	0.	0.	3.47-10	1.46-09	6.22-10
9.00 01	0.	0.	0.	0.	0.	2.35-13	6.21-10	2.20-10
1.00 02	0.	0.	0.	0.	0.	1.19-12	2.28-09	5.12-10
1.20 02	0.	0.	0.	0.	0.	1.65-10	8.70-09	3.01-10
1.40 02	0.	0.	0.	0.	1.15-11	7.89-10	7.59-10	1.13-09
1.60 02	0.	0.	6.21-14	2.09-12	1.04-09	1.45-08	4.06-10	1.21-09
1.80 02	0.	0.	0.	5.24-11	1.02-10	1.10-08	2.94-09	4.54-10
	0.	0.	1.08-14	3.52-12	1.89-10	3.57-09	4.56-09	1.46-09
	0.	0.	1.08-14	2.14-12	1.74-10	1.63-09	2.41-09	2.63-10

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AIR SCATTERING 4.28 02 ENERGY 1.00 ANGLE 1.00 DIST. 6.10 02
4.00 01 1.75 03 0. 0. 5.54 04 5.00 01 1.80 03

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	1.43-05
0.	0.	0.	0.	0.	0.	0.	2.90-06
0.	0.	0.	0.	0.	0.	0.	1.19-06
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.47-06
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	4.62-07
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	7.97-07
0.	0.	0.	0.	0.	0.	0.	1.44-06
0.	0.	0.	0.	0.	0.	0.	
							2.32-06

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
2.40-10	5.06-10	2.46-11	1.77-09	7.22-13	1.19-16	4.73-31	9.14-06	2.56-06
3.99-11	2.26-08	6.43-11	2.46-10	4.56-13	5.22-15	1.25-20	1.85-06	1.32-06
2.98-10	3.12-10	2.39-10	1.19-10	2.69-12	5.54-16	7.54-24	7.61-07	7.60-07
4.46-10	3.48-10	9.79-10	8.73-11	3.41-13	1.48-14	3.11-29	3.96-10	2.79-10
3.05-10	3.88-10	5.05-10	2.28-10	7.34-13	7.23-16	4.75-27	9.34-07	9.34-07
3.65-10	4.99-10	1.31-09	5.72-10	8.34-13	5.69-17	8.32-30	8.97-11	2.42-11
8.86-10	1.71-09	9.30-10	6.07-11	1.36-11	2.38-15	2.22-25	2.95-07	2.94-07
1.93-09	1.05-09	1.19-09	8.08-10	2.34-13	6.35-14	3.21-25	4.92-10	2.13-10
4.73-09	3.03-10	5.81-10	3.43-10	4.67-12	6.00-17	2.60-23	5.08-07	3.22-07
3.96-09	3.27-10	1.28-09	4.29-11	2.14-12	2.61-17	2.28-27	9.23-07	2.52-07
2.23-09	5.21-09	1.51-09	6.46-10	6.67-12	2.37-14	2.18-21		
7.21-10	3.67-09	5.11-10	3.70-10	4.12-12	1.76-14	2.18-21	1.48-06	3.94-07

PHI 45 TO 90 DEGREES

1.68-10	2.04-09	4.20-10	1.89-12	4.82-12	8.51-19	4.49-30	4.90-11	2.58-11
1.21-10	4.73-10	2.73-10	4.97-11	1.83-12	8.91-17	5.69-24	1.72-10	8.16-11
3.18-10	2.57-10	2.13-10	2.13-11	2.76-13	6.84-17	1.85-24	4.24-10	3.67-10
5.07-10	3.12-10	4.09-10	1.50-10	4.82-12	7.04-19	9.94-23	1.54-10	8.03-11
4.64-10	1.19-10	4.51-10	3.62-11	4.58-12	8.43-16	2.52-25	3.31-11	9.04-12
3.18-08	3.60-10	1.71-10	4.84-10	4.40-13	1.19-17	3.07-24	8.81-10	7.82-10
3.44-10	3.90-10	4.58-10	1.40-10	2.40-12	1.86-15	5.81-28	4.83-10	3.65-10
1.08-09	3.84-10	4.35-10	1.86-10	2.83-12	1.08-16	1.27-24	7.97-10	6.08-10
1.34-09	2.28-10	2.68-10	7.00-11	3.42-10	1.61-15	9.24-25	4.53-10	1.39-10
1.08-09	9.31-11	1.48-10	3.13-12	5.03-11	5.67-17	2.28-29	2.08-09	1.58-09
6.58-09	7.33-10	6.92-10	2.56-10	6.71-11	1.10-15	3.50-23		
5.43-09	1.71-10	1.64-10	8.23-11	6.23-11	5.47-16	3.16-23	9.28-10	2.82-10

PHI 90 TO 135 DEGREES

1.28-10	1.79-10	2.06-09	2.67-10	5.88-12	4.99-19	5.94-30	6.47-11	2.95-11
2.68-09	1.63-10	4.47-11	1.78-10	3.26-14	4.72-18	1.99-27	2.92-10	1.48-10
2.07-10	1.11-10	1.16-10	9.73-12	5.69-13	5.17-15	9.03-26	8.70-10	7.19-10
7.88-10	8.02-10	2.07-10	6.19-11	2.02-10	2.03-15	1.45-22	1.79-09	1.66-09
5.43-10	2.39-10	1.79-10	8.03-11	2.93-13	7.61-18	3.89-22	2.74-10	1.46-10
4.69-10	5.18-10	2.45-10	1.70-11	8.14-13	4.05-15	1.24-29	3.12-10	1.41-10
2.46-10	1.98-10	2.28-10	8.71-11	1.15-12	2.26-18	3.95-27	1.30-10	3.35-11
1.85-09	1.19-09	2.49-10	5.92-11	8.52-13	9.55-18	1.95-26	2.27-10	6.37-11
6.03-10	2.27-09	1.95-10	3.40-11	4.45-13	1.51-17	2.52-22	2.61-10	7.19-11
1.17-09	3.88-10	1.09-09	4.95-11	1.22-11	2.26-18	2.07-28	2.38-09	1.68-09
1.71-09	1.26-09	5.44-10	1.40-10	6.82-11	2.75-15	1.59-22		
5.52-10	4.49-10	1.47-10	3.54-11	6.60-11	1.59-15	9.33-23	1.27-09	5.89-10

PHI 135 TO 180 DEGREES

2.75-10	2.73-10	4.80-10	1.72-10	5.01-13	5.62-19	5.27-37	2.55-11	1.07-11
5.58-10	3.01-10	5.85-11	2.47-11	2.33-13	4.28-18	7.80-25	6.43-11	2.29-11
3.40-10	5.58-10	2.43-10	5.44-11	8.32-13	5.40-16	1.71-26	9.58-11	3.07-11
4.01-10	4.08-10	1.89-10	2.15-11	3.45-13	3.58-18	4.38-28	1.16-10	4.33-11
1.58-10	9.30-11	3.19-11	1.11-11	4.72-12	8.34-16	2.09-24	3.82-11	1.14-11
4.18-10	3.35-10	1.68-10	2.43-11	2.08-11	1.02-15	4.80-22	1.27-10	6.52-11
7.61-10	6.20-10	1.23-10	5.51-11	5.07-13	2.62-16	4.11-29	3.97-10	2.90-10
8.24-10	9.24-10	2.33-10	6.77-11	2.17-12	6.69-18	6.45-25	1.47-10	3.51-11
9.13-10	8.07-10	3.48-10	7.09-12	5.52-11	1.15-17	1.73-26	9.17-10	4.68-10
1.89-09	3.18-09	4.61-10	2.33-11	6.44-12	2.59-17	3.49-28	7.99-10	2.14-10
1.17-09	1.21-09	3.91-10	8.09-11	1.56-11	5.59-16	8.41-23		
2.17-10	3.10-10	7.71-11	2.39-11	1.09-11	2.53-16	8.24-23	4.81-10	1.35-10
							2.32-06	6.19-07

AIR SCATTERING 4.29 02 ENERGY 1.00 ANGLE 1.50 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60 01	1.20-01
2.00 01	2.66-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	6.31-07	5.38-08	0.	0.	0.	0.	0.
6.00 01	0.	0.	2.99-07	0.	0.	0.	0.	0.
8.00 01	0.	0.	2.49-08	2.39-07	0.	0.	0.	0.
9.00 01	0.	0.	0.	1.13-07	1.18-07	0.	0.	0.
1.00 02	0.	0.	0.	0.	2.10-07	0.	0.	0.
1.20 02	0.	0.	0.	0.	2.20-07	0.	0.	0.
1.40 02	0.	0.	0.	0.	2.67-07	0.	0.	0.
1.60 02	0.	0.	0.	0.	4.47-08	5.80-07	0.	0.
1.80 02	0.	0.	0.	0.	0.	2.09-07	0.	0.
	1.60-07	1.10-07	9.70-08	9.77-08	2.07-07	1.13-07	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	1.69-06	0.	0.	0.	0.	0.	0.	3.68-10
4.00 01	0.	4.02-07	3.43-08	0.	0.	2.63-09	1.19-09	1.80-08
6.00 01	0.	0.	1.90-07	0.	0.	0.	4.26-09	6.49-10
8.00 01	0.	0.	1.59-08	1.52-07	0.	0.	2.63-09	3.09-10
9.00 01	0.	0.	0.	7.21-08	7.49-08	0.	2.15-09	5.21-10
1.00 02	0.	0.	0.	0.	1.33-07	1.28-09	1.75-08	5.78-10
1.20 02	0.	0.	0.	0.	1.40-07	7.68-08	7.71-09	7.20-10
1.40 02	0.	0.	0.	0.	1.70-07	1.14-08	6.95-10	5.24-09
1.60 02	0.	0.	0.	3.84-11	2.85-08	4.13-07	1.32-09	5.10-10
1.80 02	0.	0.	0.	4.88-15	1.00-10	1.56-07	7.26-10	2.78-09
	1.02-07	6.98-08	6.17-08	6.22-08	1.32-07	1.10-07	8.59-09	5.49-09
	1.47-08	1.79-08	1.86-08	2.07-08	2.24-08	2.60-08	3.02-09	2.98-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.49-08	7.77-10
4.00 01	0.	0.	0.	0.	0.	0.	5.75-12	1.80-09
6.00 01	0.	0.	0.	0.	0.	0.	1.69-09	2.60-10
8.00 01	0.	0.	0.	0.	0.	1.23-12	2.79-08	6.71-10
9.00 01	0.	0.	0.	0.	0.	8.98-13	3.35-09	6.56-09
1.00 02	0.	0.	0.	0.	0.	3.35-12	1.51-09	4.11-10
1.20 02	0.	0.	0.	0.	2.65-12	6.33-10	6.71-09	4.74-10
1.40 02	0.	0.	0.	0.	3.82-14	2.75-09	1.83-09	6.74-10
1.60 02	0.	0.	0.	9.09-13	1.31-10	8.78-09	5.90-10	5.71-10
1.80 02	0.	0.	0.	2.40-11	3.21-10	4.48-09	3.05-10	1.61-09
	0.	0.	0.	1.61-12	4.30-11	2.73-09	1.41-08	2.39-09
	0.	0.	0.	1.42-12	2.21-11	8.28-10	7.78-09	1.15-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	5.64-11	2.45-09
4.00 01	0.	0.	0.	0.	0.	0.	8.00-13	3.72-09
6.00 01	0.	0.	0.	0.	0.	0.	4.21-09	1.48-09
8.00 01	0.	0.	0.	0.	0.	0.	9.58-10	4.67-10
9.00 01	0.	0.	0.	0.	0.	2.75-09	3.73-09	1.21-08
1.00 02	0.	0.	0.	0.	0.	3.51-10	7.80-10	4.90-10
1.20 02	0.	0.	0.	0.	1.58-12	6.08-12	6.06-10	7.12-10
1.40 02	0.	0.	0.	2.79-13	3.12-11	5.27-09	1.81-09	6.64-10
1.60 02	0.	0.	0.	0.	1.31-11	2.74-09	1.60-09	2.74-09
1.80 02	0.	0.	0.	0.	2.84-11	2.73-09	2.69-10	4.25-09
	0.	0.	0.	7.43-14	1.28-11	2.58-09	3.19-09	4.67-09
	0.	0.	0.	7.43-14	5.56-12	1.09-09	1.28-09	1.99-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.98-08	3.54-10	9.74-10
4.00 01	0.	0.	0.	0.	0.	0.	8.54-09	1.03-09
6.00 01	0.	0.	0.	0.	0.	0.	8.18-10	1.31-09
8.00 01	0.	0.	0.	0.	0.	0.	7.77-10	5.56-10
9.00 01	0.	0.	0.	0.	0.	0.	5.23-10	2.67-10
1.00 02	0.	0.	0.	0.	0.	4.37-11	2.37-10	5.50-10
1.20 02	0.	0.	0.	0.	6.47-10	5.60-10	9.47-10	3.41-10
1.40 02	0.	0.	0.	0.	9.85-11	5.73-10	1.08-09	9.15-10
1.60 02	0.	0.	0.	0.	6.31-12	2.23-10	1.50-09	4.08-10
1.80 02	0.	0.	0.	0.	1.80-10	2.54-09	8.77-10	2.70-10
	0.	0.	0.	0.	2.49-10	1.73-09	3.02-09	1.35-09
	0.	0.	0.	0.	2.12-10	1.21-09	1.53-09	3.13-10

171121132075 113572072725

AIR SCATTERING 4.29 02 ENERGY 1.00 ANGLE 1.50 01 DIST. 6.10 02
4.20 01 1.74 03 0. 0. 5.52 04 5.00 01 1.80 03

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	6.91-07
0.	0.	0.	0.	0.	0.	0.	1.28-07
0.	0.	0.	0.	0.	0.	0.	4.48-08
0.	0.	0.	0.	0.	0.	0.	2.76-08
0.	0.	0.	0.	0.	0.	0.	2.19-08
0.	0.	0.	0.	0.	0.	0.	1.89-08
0.	0.	0.	0.	0.	0.	0.	1.98-08
0.	0.	0.	0.	0.	0.	0.	2.40-08
0.	0.	0.	0.	0.	0.	0.	3.30-08
0.	0.	0.	0.	0.	0.	0.	1.04-08
0.	0.	0.	0.	0.	0.	0.	1.11-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
4.80-11	1.71-10	6.98-10	1.56-09	1.81-12	2.74-16	4.87-24	4.40-07	6.36-08
4.62-11	2.24-09	1.21-09	1.48-11	1.52-13	1.34-16	1.29-22	8.23-08	2.04-08
6.75-09	1.18-09	2.43-10	7.34-11	6.96-14	2.87-15	2.16-23	2.89-08	9.49-09
1.08-09	6.68-10	1.78-10	8.05-11	7.89-12	4.86-16	1.48-27	1.78-08	6.22-09
1.64-09	2.46-10	2.49-10	5.85-11	4.74-12	3.05-17	1.84-25	1.41-08	6.98-09
2.32-10	2.50-10	1.42-10	3.41-10	1.51-13	1.91-16	4.26-28	1.28-08	6.03-09
2.70-10	5.22-10	2.38-10	1.60-10	1.06-13	9.53-17	1.77-24	1.68-08	6.19-09
1.55-09	5.10-10	2.15-10	2.09-11	1.70-12	2.94-18	1.57-25	1.61-08	3.28-09
1.17-09	5.40-10	3.05-10	1.37-10	1.44-11	7.71-15	1.82-25	2.33-08	2.40-09
1.52-09	5.46-10	1.15-10	7.45-11	1.04-12	3.73-16	1.06-23	7.99-09	5.02-10
3.28-09	1.45-09	6.37-10	2.98-10	6.63-12	2.39-15	2.98-23		
1.47-09	3.64-10	1.49-10	1.05-10	2.57-12	1.44-15	1.99-23	7.33-08	6.57-09

PHI 45 TO 90 DEGREES

3.96-11	1.13-11	1.51-11	8.47-11	3.34-11	2.60-15	5.98-23	6.26-10	5.97-10
1.67-10	5.64-10	2.51-10	4.64-11	1.64-12	6.95-15	1.32-24	7.75-11	4.96-11
1.88-09	2.39-10	1.69-09	2.18-10	1.36-12	1.27-14	2.47-24	1.49-10	6.61-11
1.27-09	5.54-10	4.12-10	8.46-11	1.05-11	6.59-16	1.67-27	1.19-09	9.20-10
5.64-10	2.20-10	1.55-10	4.22-11	1.02-11	1.29-18	6.36-27	3.77-10	2.37-10
1.08-09	2.20-10	2.31-10	4.48-11	2.81-13	1.29-15	1.24-25	1.08-10	3.25-11
6.49-10	4.12-10	9.18-10	9.67-11	7.91-13	3.10-15	8.62-29	3.51-10	2.20-10
7.35-10	8.47-10	4.25-10	8.90-11	1.01-12	3.26-17	3.78-25	2.68-10	6.99-11
2.08-09	1.84-10	8.03-11	6.30-11	4.40-13	6.20-17	1.27-21	5.50-10	2.17-10
5.22-10	4.31-10	4.17-10	1.28-10	5.26-13	4.26-15	3.62-25	3.48-10	8.15-11
2.03-09	7.84-10	1.15-09	1.81-10	8.53-12	6.46-15	2.25-22		
5.63-10	1.49-10	3.99-10	4.99-11	4.02-12	3.64-15	2.21-22	8.64-10	3.18-10

PHI 90 TO 135 DEGREES

2.19-10	1.97-10	7.90-11	8.66-12	1.22-11	1.50-11	1.44-31	9.53-11	5.83-11
5.75-10	2.12-10	3.04-10	1.14-11	2.94-13	3.09-14	3.75-31	1.48-10	9.59-11
4.61-10	3.08-10	9.43-10	3.64-11	3.60-12	1.23-14	4.92-28	2.46-10	1.66-10
4.51-10	9.43-11	7.73-10	1.89-10	2.13-13	2.50-17	3.74-23	7.79-11	2.09-11
1.22-10	1.23-10	7.31-11	2.29-11	2.52-13	2.22-16	4.91-24	7.05-10	4.16-10
3.00-10	2.17-10	1.28-10	1.05-10	3.41-12	4.70-16	1.73-28	7.86-11	2.41-11
2.15-10	3.75-10	1.76-10	1.26-10	3.05-13	5.71-17	3.79-28	6.31-11	1.45-11
3.09-10	1.24-09	9.65-11	9.94-10	5.32-12	2.90-18	8.37-24	3.98-10	1.76-10
4.21-10	5.22-10	9.25-10	1.58-10	4.98-14	3.69-17	5.43-29	3.26-10	1.19-10
3.71-09	1.97-10	2.78-10	2.32-11	7.57-14	7.63-17	6.87-25	3.94-10	2.05-10
9.06-10	7.74-10	8.56-10	4.30-10	3.98-12	9.16-13	1.53-23		
2.66-10	2.12-10	3.38-10	2.40-10	1.86-12	9.12-13	1.25-23	4.65-10	1.03-10

PHI 135 TO 180 DEGREES

1.58-10	4.29-11	2.60-10	2.33-12	1.30-13	2.64-15	1.28-32	1.05-09	9.92-10
1.03-10	1.32-10	4.74-10	1.98-11	4.33-12	7.29-15	1.62-22	3.87-10	3.42-10
4.73-10	9.86-10	3.70-10	3.25-11	1.29-14	1.41-12	3.00-23	1.09-10	5.01-11
1.10-10	1.15-10	9.94-10	4.76-11	5.19-11	2.57-17	4.97-29	6.70-11	2.32-11
1.56-10	2.16-10	1.71-10	2.54-12	2.04-13	2.42-13	1.09-24	3.92-11	1.24-11
9.01-11	1.13-10	1.18-09	2.88-12	9.35-11	4.32-19	5.77-23	4.91-11	1.66-11
2.75-10	9.31-10	6.96-10	3.83-10	6.72-11	8.89-17	2.56-28	1.69-10	7.99-11
1.20-09	2.80-10	3.00-10	6.24-10	2.89-11	4.52-18	3.27-26	1.56-10	4.12-11
4.41-10	2.88-10	8.07-10	9.94-12	1.32-13	7.71-16	1.51-27	1.11-10	4.74-11
1.50-09	6.32-10	7.96-10	7.97-12	1.78-13	9.29-16	3.70-27	2.44-10	7.52-11
8.09-10	8.49-10	1.25-09	3.22-10	5.71-11	4.18-13	4.64-23		
1.96-10	2.72-10	5.50-10	1.98-10	3.91-11	3.77-13	3.75-23	3.27-10	9.16-11
							1.18-07	1.05-08

AIR SCATTERING 4.30 02 ENERGY 1.00 ANGLE 3.00 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	4.45-07	8.21-07	0.	0.	0.	0.	0.	0.
4.00 01	0.	5.63-08	2.05-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	4.13-08	1.14-07	0.	0.	0.	0.
8.00 01	0.	0.	0.	7.37-08	5.54-08	0.	0.	0.
9.00 01	0.	0.	0.	0.	1.01-07	0.	0.	0.
1.00 02	0.	0.	0.	0.	1.11-07	0.	0.	0.
1.20 02	0.	0.	0.	0.	1.09-07	0.	0.	0.
1.40 02	0.	0.	0.	0.	4.59-08	1.30-07	0.	0.
1.60 02	0.	0.	0.	0.	0.	7.73-08	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	1.48-08	5.93-08	4.65-08	5.45-08	1.03-07	4.80-08	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	1.56-07	5.23-07	0.	0.	1.32-08	0.	3.00-08	9.93-09
4.00 01	0.	3.59-08	1.30-07	0.	0.	0.	4.17-09	1.85-09
6.00 01	0.	0.	2.63-08	7.28-08	4.01-09	0.	1.22-08	1.91-09
8.00 01	0.	0.	0.	4.69-08	3.52-08	1.21-13	2.71-09	6.22-10
9.00 01	0.	0.	0.	0.	6.45-08	6.80-10	2.49-09	6.46-10
1.00 02	0.	0.	0.	0.	7.06-08	9.14-10	1.94-09	5.86-10
1.20 02	0.	0.	0.	0.	6.93-08	6.04-08	3.59-09	7.69-10
1.40 02	0.	0.	0.	0.	3.34-08	9.90-08	1.75-09	2.24-08
1.60 02	0.	0.	0.	0.	2.73-10	6.78-08	3.11-09	1.85-09
1.80 02	0.	0.	0.	0.	1.34-10	2.40-09	1.12-09	1.19-09
	9.41-09	3.77-08	2.96-08	3.47-08	6.94-08	5.83-08	9.67-09	8.44-09
	4.71-09	6.72-09	6.59-09	7.94-09	8.19-09	1.53-08	2.35-09	5.83-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.72-10
4.00 01	0.	0.	0.	0.	0.	0.	9.38-10	2.78-09
6.00 01	0.	0.	0.	0.	0.	0.	2.94-09	1.72-09
8.00 01	0.	0.	0.	0.	0.	7.26-12	1.21-09	3.30-10
9.00 01	0.	0.	0.	0.	1.70-12	0.	1.88-09	8.25-10
1.00 02	0.	0.	0.	0.	0.	7.88-10	4.70-10	4.12-10
1.20 02	0.	0.	0.	0.	0.	1.11-09	2.89-09	1.41-09
1.40 02	0.	0.	0.	2.25-11	0.	6.46-09	1.75-09	1.46-09
1.60 02	0.	0.	0.	0.	5.02-12	3.70-09	6.41-10	1.68-09
1.80 02	0.	0.	0.	1.57-10	2.12-10	5.94-09	5.74-11	5.29-10
	0.	0.	0.	1.54-11	1.39-11	3.22-09	3.27-09	2.45-09
	0.	0.	0.	1.12-11	1.27-11	1.53-09	7.64-10	5.64-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.04-11	1.80-10
4.00 01	0.	0.	0.	0.	0.	0.	1.11-08	2.08-09
6.00 01	0.	0.	0.	0.	0.	0.	4.27-11	7.88-09
8.00 01	0.	0.	0.	0.	6.87-11	0.	2.42-10	9.02-10
9.00 01	0.	0.	0.	0.	0.	0.	8.49-10	3.36-10
1.00 02	0.	0.	0.	0.	0.	4.25-11	1.65-09	4.68-11
1.20 02	0.	0.	0.	0.	1.30-10	1.77-11	7.73-10	1.50-10
1.40 02	0.	0.	0.	6.13-13	1.40-13	7.92-10	2.06-09	3.82-10
1.60 02	0.	0.	0.	0.	3.27-11	1.16-10	9.14-10	2.16-09
1.80 02	0.	0.	0.	0.	0.	5.24-10	4.54-10	9.93-10
	0.	0.	0.	1.63-13	7.06-11	2.76-10	3.45-09	3.41-09
	0.	0.	0.	1.63-13	4.55-11	1.29-10	1.98-09	1.95-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.30-09
4.00 01	0.	0.	0.	0.	0.	0.	8.50-09	3.32-09
6.00 01	0.	0.	0.	0.	0.	0.	3.78-11	5.60-09
8.00 01	0.	0.	0.	0.	0.	0.	1.22-11	1.87-09
9.00 01	0.	0.	0.	0.	0.	0.	1.82-10	1.57-10
1.00 02	0.	0.	0.	0.	0.	0.	1.82-09	3.20-09
1.20 02	0.	0.	0.	0.	0.	1.19-13	6.74-10	3.47-09
1.40 02	0.	0.	0.	0.	0.	9.18-12	9.00-10	1.07-09
1.60 02	0.	0.	0.	0.	2.16-09	1.61-09	2.44-09	4.36-10
1.80 02	0.	0.	0.	0.	1.39-13	1.41-09	1.93-10	3.95-09
	0.	0.	0.	0.	3.75-10	3.67-10	2.73-09	5.13-09
	0.	0.	0.	0.	3.74-10	2.54-10	1.21-09	1.59-09

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AIR SCATTERING 4.30 02 ENERGY 1.00 ANGLE 3.00 01 DIST. 6.10 02
5.20 01 1.73 03 0. 0. 5.60 04 5.00 01 1.80 03

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	2.20-07
0.	0.	0.	0.	0.	0.	0.	4.14-08
0.	0.	0.	0.	0.	0.	0.	1.76-08
0.	0.	0.	0.	0.	0.	0.	1.24-08
0.	0.	0.	0.	0.	0.	0.	9.12-09
0.	0.	0.	0.	0.	0.	0.	9.97-09
0.	0.	0.	0.	0.	0.	0.	9.80-09
0.	0.	0.	0.	0.	0.	0.	1.06-08
0.	0.	0.	0.	0.	0.	0.	3.87-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	3.92-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
7.21-10	1.40-09	2.10-10	2.33-11	3.31-14	9.35-17	4.69-26	1.43-07	2.28-08
2.63-10	7.29-09	1.67-10	8.80-11	2.68-12	4.98-17	1.37-24	2.67-08	5.90-09
1.09-09	1.37-09	6.82-10	7.69-11	4.65-12	8.43-16	1.04-27	1.22-08	2.95-09
4.90-10	3.58-09	3.96-10	1.23-10	8.53-11	2.53-16	3.34-23	8.07-09	1.97-09
5.96-10	2.19-10	6.00-09	2.86-11	1.92-12	4.55-17	3.97-23	6.05-09	2.06-09
4.42-10	9.31-10	1.64-10	1.16-09	3.66-13	9.66-15	2.52-23	6.53-09	1.92-09
7.51-10	1.52-09	3.85-10	4.21-10	5.22-12	6.82-15	9.07-21	9.48-09	2.78-09
2.47-10	8.22-10	3.28-10	2.98-10	1.36-12	1.52-14	3.31-27	8.82-09	1.14-09
1.06-09	1.51-09	4.42-10	1.34-10	1.05-13	1.67-15	1.29-25	3.66-09	2.75-10
1.15-09	2.95-09	1.05-09	1.77-11	8.63-13	5.40-15	3.16-28	3.03-10	8.40-11
1.46-09	4.24-09	1.78-09	5.24-10	3.21-11	8.90-15	2.98-21		
2.05-10	1.56-09	9.74-10	2.41-10	2.78-11	5.55-15	2.96-21	2.74-08	2.22-09

PHI 45 TO 90 DEGREES

2.42-10	1.53-09	2.80-11	2.36-10	3.64-12	2.17-19	3.28-28	4.08-11	1.57-11
1.01-09	8.91-09	2.82-10	2.34-10	3.47-12	1.21-16	9.28-28	2.96-10	1.48-10
1.02-09	2.12-10	8.75-11	1.95-10	1.03-12	1.15-16	1.17-27	2.08-10	6.85-11
4.44-10	3.42-10	2.50-10	1.79-10	1.52-12	1.36-15	1.02-24	8.07-11	3.38-11
2.90-10	4.88-10	5.99-11	5.08-10	1.93-12	2.59-15	3.10-21	1.23-10	5.33-11
1.27-10	2.07-10	2.18-10	7.64-11	2.84-13	1.06-16	9.28-29	8.17-11	3.37-11
2.44-10	1.91-10	4.37-10	7.72-11	2.73-12	9.50-17	2.00-24	2.34-10	7.54-11
2.54-09	2.68-10	6.71-10	5.21-11	1.39-12	1.03-14	4.79-26	5.21-10	2.78-10
9.52-10	3.76-10	2.52-10	1.56-10	9.31-12	6.16-18	1.81-25	3.02-10	1.02-10
1.21-09	2.74-10	1.21-09	4.65-11	3.01-13	1.45-16	1.77-22	4.01-10	1.91-10
1.67-09	2.14-09	6.41-10	3.36-10	4.87-12	3.76-15	5.51-22		
4.16-10	1.47-09	1.36-10	1.08-10	1.40-12	2.81-15	5.39-22	4.63-10	8.93-11

PHI 90 TO 135 DEGREES

6.34-11	3.59-10	1.44-10	1.86-12	6.55-14	1.19-16	2.42-31	1.52-11	4.61-12
8.88-10	1.44-10	2.42-10	8.87-11	6.45-11	3.76-18	8.07-28	5.45-10	4.44-10
9.30-10	2.83-10	1.73-10	4.20-11	1.37-10	1.20-16	1.07-27	3.00-10	2.42-10
3.93-10	1.98-10	4.07-10	3.89-10	4.41-13	1.80-17	1.83-28	6.87-11	2.31-11
4.61-10	6.62-10	9.74-11	3.64-11	8.16-13	2.54-18	4.89-27	6.83-11	1.99-11
9.95-10	4.96-09	1.29-10	6.77-11	8.20-14	2.63-17	1.86-27	1.71-10	7.98-11
7.54-10	3.33-10	1.02-10	1.03-09	9.48-14	6.47-16	6.65-24	8.29-11	2.57-11
6.56-10	7.55-10	2.90-10	4.33-10	4.32-12	1.28-17	1.94-24	1.70-10	7.05-11
4.02-10	2.61-10	2.69-10	3.06-11	6.59-13	3.71-19	3.86-32	1.36-10	5.77-11
1.07-08	6.06-10	5.21-10	1.17-11	5.62-13	8.38-19	4.38-24	3.60-10	1.60-10
1.92-09	1.56-09	4.84-10	6.28-10	4.94-11	3.80-16	2.95-24		
4.78-10	8.32-10	1.02-10	3.64-10	3.81-11	2.14-16	2.20-24	3.57-10	1.05-10

PHI 135 TO 180 DEGREES

2.47-10	1.02-10	1.00-11	4.06-11	5.39-13	1.66-18	6.34-37	8.65-11	4.24-11
3.26-10	1.80-10	2.47-09	1.27-10	3.88-12	8.67-17	5.70-26	4.92-10	2.75-10
7.66-09	5.52-10	8.80-10	1.84-11	2.57-13	1.69-15	5.63-29	4.03-10	2.32-10
1.02-09	4.45-10	1.16-09	8.31-11	5.81-12	1.41-16	3.33-27	1.11-10	3.78-11
1.98-10	2.82-10	7.33-10	1.13-10	4.56-12	4.77-18	9.57-28	3.16-11	9.81-12
1.11-10	1.00-10	3.64-10	3.36-11	1.93-13	3.34-17	1.21-26	1.91-10	1.21-10
3.12-10	1.30-09	2.98-10	8.76-11	7.52-13	1.03-16	4.73-25	1.77-10	7.26-11
2.45-10	4.99-10	7.60-10	2.92-10	2.14-13	2.64-17	6.45-30	9.83-11	2.51-11
3.23-10	1.09-09	4.08-10	1.65-11	8.90-13	3.32-16	5.07-28	4.17-10	2.72-10
3.45-10	1.25-10	1.20-10	9.25-12	1.51-12	4.00-16	2.53-24	2.25-10	1.24-10
2.74-09	1.15-09	1.57-09	1.92-10	4.01-12	6.40-16	3.21-25		
1.84-09	3.82-10	7.04-10	7.72-11	2.29-12	4.74-16	1.93-25	4.42-10	1.04-10
							4.50-08	3.55-09

AIR SCATTERING 4.31 02 ENERGY 1.00 ANGLE 6.00 01 DIST. 6.10 02

1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	3.05-07	8.47-08	0.	0.	0.	0.
4.00 01	0.	0.	0.	1.37-07	0.	0.	0.	0.
6.00 01	0.	0.	0.	3.05-09	8.05-08	0.	0.	0.
8.00 01	0.	0.	0.	0.	6.14-08	0.	0.	0.
9.00 01	0.	0.	0.	0.	5.50-08	0.	0.	0.
1.00 02	0.	0.	0.	0.	3.57-08	2.45-08	0.	0.
1.20 02	0.	0.	0.	0.	0.	5.35-08	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	1.84-08	2.97-08	5.72-08	2.17-08	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	1.94-07	5.39-08	0.	0.	5.22-09	1.06-10
4.00 01	0.	0.	0.	8.72-08	4.39-09	0.	2.41-09	4.54-10
6.00 01	0.	0.	0.	5.09-09	5.12-08	4.09-10	3.69-09	2.00-09
8.00 01	0.	0.	0.	0.	5.40-08	1.72-09	7.80-10	1.19-09
9.00 01	0.	0.	0.	0.	3.69-08	5.25-09	9.98-10	9.34-09
1.00 02	0.	0.	0.	0.	2.28-08	2.13-08	3.96-10	9.61-10
1.20 02	0.	0.	0.	0.	1.03-09	4.15-08	7.23-09	8.76-10
1.40 02	0.	0.	0.	2.64-14	6.42-12	1.70-08	1.23-09	1.50-09
1.60 02	0.	0.	0.	0.	1.01-10	3.25-09	2.37-09	8.02-10
1.80 02	0.	0.	0.	0.	1.42-12	1.95-09	8.53-10	5.48-10
	0.	0.	1.17-08	1.97-08	4.27-08	2.40-08	5.36-09	3.65-09
	0.	0.	2.33-09	3.42-09	6.35-09	3.16-09	2.23-09	1.78-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.94-09	7.74-10
4.00 01	0.	0.	0.	0.	0.	0.	2.01-09	1.79-10
6.00 01	0.	0.	0.	0.	0.	0.	5.40-09	1.00-09
8.00 01	0.	0.	0.	0.	0.	1.99-11	7.28-10	3.07-09
9.00 01	0.	0.	0.	0.	0.	1.25-09	1.47-09	9.57-10
1.00 02	0.	0.	0.	0.	0.	2.17-10	1.37-08	2.66-10
1.20 02	0.	0.	0.	0.	0.	1.10-09	2.76-09	6.17-10
1.40 02	0.	0.	0.	0.	0.	1.65-09	6.35-09	1.71-09
1.60 02	0.	0.	0.	0.	3.24-13	2.01-10	4.89-10	2.82-10
1.80 02	0.	0.	0.	0.	2.28-11	1.58-11	3.31-10	4.98-10
	0.	0.	0.	0.	1.43-12	1.10-09	7.48-09	2.29-09
	0.	0.	0.	0.	1.38-12	4.43-10	2.78-09	7.90-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	9.55-10	1.15-10
4.00 01	0.	0.	0.	0.	0.	0.	8.21-10	2.27-09
6.00 01	0.	0.	0.	0.	0.	0.	6.36-10	1.14-09
8.00 01	0.	0.	0.	0.	0.	0.	7.79-09	5.12-10
9.00 01	0.	0.	0.	0.	1.05-10	0.	2.52-09	5.45-09
1.00 02	0.	0.	0.	0.	0.	5.34-12	5.91-10	3.39-10
1.20 02	0.	0.	0.	0.	0.	3.55-12	1.21-09	3.09-10
1.40 02	0.	0.	0.	0.	7.08-15	1.32-11	4.50-10	5.91-10
1.60 02	0.	0.	0.	0.	0.	2.60-11	2.30-10	9.46-10
1.80 02	0.	0.	0.	0.	1.34-12	7.55-11	3.38-09	7.11-10
	0.	0.	0.	0.	1.84-11	1.47-11	4.21-09	2.34-09
	0.	0.	0.	0.	1.83-11	6.87-12	1.49-09	7.02-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.14-11	2.89-09
4.00 01	0.	0.	0.	0.	0.	0.	4.83-11	1.56-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.60-09
8.00 01	0.	0.	0.	0.	0.	0.	1.44-10	1.58-09
9.00 01	0.	0.	0.	0.	0.	0.	3.33-11	3.09-09
1.00 02	0.	0.	0.	0.	0.	0.	1.92-11	3.31-10
1.20 02	0.	0.	0.	0.	0.	1.79-12	2.41-09	9.99-10
1.40 02	0.	0.	0.	0.	7.96-13	4.53-12	4.50-10	7.61-10
1.60 02	0.	0.	0.	0.	0.	3.78-12	1.68-10	2.60-10
1.80 02	0.	0.	0.	0.	0.	4.06-12	1.08-09	2.54-10
	0.	0.	0.	0.	2.12-13	2.69-12	1.07-09	2.57-09
	0.	0.	0.	0.	2.12-13	1.13-12	7.62-10	5.94-10

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AIR SCATTERING 4.31 02 ENERGY 1.00 ANGLE 6.00 01 DIST. 6.10 02

6.20 01 1.72 03 0. 0. 5.53 04 5.00 01 1.80 03

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	5.43-08
0.	0.	0.	0.	0.	0.	0.	1.37-08
0.	0.	0.	0.	0.	0.	0.	7.55-09
0.	0.	0.	0.	0.	0.	0.	5.53-09
0.	0.	0.	0.	0.	0.	0.	4.95-09
0.	0.	0.	0.	0.	0.	0.	4.44-09
0.	0.	0.	0.	0.	0.	0.	2.67-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							1.20-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
4.20-10	1.43-10	7.03-11	4.75-11	1.48-14	5.97-18	2.06-34	3.48-08	6.26-09
6.77-10	3.66-10	3.33-10	3.39-11	7.44-13	9.50-19	5.13-21	9.25-09	1.75-09
2.66-09	5.32-10	6.15-10	9.06-11	1.92-11	3.03-16	3.60-22	5.44-09	1.01-09
2.84-09	8.48-10	1.03-10	1.27-11	4.83-13	5.17-16	1.13-24	5.10-09	1.45-09
3.15-09	4.75-10	9.87-10	1.05-11	4.04-12	1.16-16	2.59-27	4.04-09	6.34-10
1.17-09	2.00-09	1.51-09	2.14-10	2.79-12	1.43-18	4.72-26	3.24-09	3.73-10
1.02-09	8.16-10	4.76-10	9.93-11	2.29-13	2.43-16	7.29-26	2.53-09	2.92-10
1.62-09	4.45-10	2.58-10	8.03-11	1.32-12	1.45-17	8.50-24	1.00-09	5.53-10
1.20-09	7.72-10	3.08-10	2.21-11	1.87-12	2.76-16	1.94-24	3.39-10	9.69-11
5.42-10	4.13-10	3.75-10	1.12-10	2.29-12	6.54-16	3.90-27	1.76-10	9.54-11
3.53-09	1.46-09	9.92-10	1.40-10	7.46-12	4.76-16	9.90-22		
1.10-09	4.57-10	4.04-10	4.28-11	5.09-12	1.82-16	9.87-22	9.24-09	7.82-10

PHI 45 TO 90 DEGREES

1.81-10	4.35-10	1.30-10	6.74-12	1.45-14	1.45-19	4.75-31	1.17-10	4.57-11
2.30-10	1.16-09	4.77-10	3.73-11	2.24-13	7.15-15	3.00-30	1.16-10	4.61-11
3.45-10	5.05-10	2.16-10	8.63-11	2.82-13	7.07-17	1.39-27	2.70-10	1.23-10
1.62-10	8.58-10	5.74-10	1.25-10	1.47-11	4.56-16	4.29-22	1.59-10	7.90-11
1.06-09	3.38-10	4.02-10	4.92-11	2.89-12	5.11-15	3.32-23	1.91-10	7.09-11
5.02-10	6.47-10	3.60-10	4.53-11	9.92-13	1.98-16	1.65-24	5.96-10	5.38-10
8.72-10	3.57-10	1.62-09	4.31-10	6.43-13	1.01-15	4.42-23	2.37-10	6.73-11
2.93-09	3.28-10	1.14-09	3.40-10	4.79-13	5.81-16	8.11-24	4.89-10	1.99-10
7.95-10	1.12-09	1.08-10	1.54-11	1.03-12	4.59-16	1.16-24	7.73-11	2.42-11
8.42-10	6.37-11	1.41-10	1.28-11	1.81-13	1.09-15	1.17-23	5.68-11	2.20-11
1.72-09	1.22-09	1.33-09	3.22-10	6.12-12	2.96-15	1.64-22		
8.31-10	3.58-10	4.57-10	1.33-10	4.47-12	1.58-15	1.47-22	5.12-10	1.19-10

PHI 90 TO 135 DEGREES

3.03-10	9.18-10	4.78-11	1.49-11	4.27-14	6.12-17	8.57-18	6.42-11	4.05-11
6.88-10	3.77-10	3.94-11	2.42-11	3.74-14	3.62-17	3.12-27	1.33-10	6.52-11
1.83-10	1.09-09	1.20-09	1.53-11	2.63-13	1.42-18	3.19-28	9.96-11	3.07-11
1.12-09	1.00-10	2.19-10	1.00-10	4.56-13	8.27-16	7.01-26	3.62-10	1.82-10
2.95-09	3.88-10	1.24-09	1.23-11	1.19-12	1.45-16	1.05-25	3.90-10	1.70-10
4.03-10	4.64-10	9.28-11	6.44-12	1.39-13	1.37-17	4.70-31	5.37-11	2.33-11
7.44-10	3.08-10	6.44-11	3.95-10	7.62-13	1.83-17	4.75-26	8.67-11	2.21-11
2.22-09	9.87-10	5.12-10	2.37-11	1.90-11	9.12-17	1.00-24	1.15-10	3.12-11
2.06-10	5.32-10	8.30-11	1.46-10	2.29-10	8.44-17	3.02-25	6.10-11	2.35-11
1.16-09	4.22-11	3.63-10	6.54-11	1.47-13	1.86-18	3.72-28	1.98-10	1.25-10
2.08-09	1.05-09	8.26-10	2.10-10	4.55-11	3.53-16	5.17-19		
5.29-10	3.16-10	3.88-10	1.22-10	4.31-11	2.67-16	5.16-19	3.30-10	7.29-11

PHI 135 TO 180 DEGREES

2.76-10	2.31-10	6.89-11	8.10-12	5.09-13	1.22-17	1.80-27	1.10-10	5.55-11
1.31-10	1.24-10	1.40-10	1.58-11	2.08-13	5.84-15	2.70-30	6.19-11	3.19-11
2.24-10	1.57-10	2.84-10	4.97-10	4.02-13	2.00-15	1.87-27	7.01-11	3.91-11
1.61-10	7.71-10	2.91-10	1.61-11	2.21-13	5.26-20	3.29-28	7.87-11	2.38-11
8.40-10	8.51-10	9.15-11	7.62-12	2.28-13	1.77-16	5.16-25	1.41-10	7.58-11
3.23-10	3.88-10	2.79-10	3.99-11	1.51-13	1.98-16	3.80-26	2.96-11	8.29-12
2.06-10	8.15-10	2.73-11	1.76-11	1.51-12	2.03-15	1.14-22	1.48-10	9.57-11
3.62-10	1.16-09	7.84-11	1.55-11	1.88-12	2.58-15	1.50-24	7.17-11	2.28-11
1.75-09	1.04-10	4.36-11	2.27-09	1.00-10	7.07-15	2.50-31	8.27-11	4.31-11
3.01-10	7.27-10	8.95-11	3.09-11	3.60-13	1.92-17	1.05-28	7.20-11	3.60-11
8.40-10	1.18-09	3.06-10	5.56-10	1.87-11	4.19-15	3.77-23		
3.25-10	4.29-10	1.09-10	3.98-10	1.76-11	2.34-15	3.65-23	1.78-10	4.01-11
							1.61-08	1.30-09

AIR SCATTERING 4.32 02 ENERGY 1.00 ANGLE 9.00 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	0.	1.70-07	1.55-07	0.	0.	0.
4.00 01	0.	0.	0.	0.	1.07-07	0.	0.	0.
6.00 01	0.	0.	0.	0.	6.29-08	0.	0.	0.
8.00 01	0.	0.	0.	0.	1.65-08	4.29-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	2.07-08	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	1.03-08	5.00-08	1.76-08	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	0.	1.08-07	9.88-08	0.	5.21-10	3.13-09
4.00 01	0.	0.	0.	0.	6.79-08	2.49-10	5.03-09	4.89-10
6.00 01	0.	0.	0.	0.	4.20-08	8.32-09	6.27-09	7.50-10
8.00 01	0.	0.	0.	0.	1.11-08	3.54-08	3.88-09	1.09-09
9.00 01	0.	0.	0.	0.	6.53-10	2.22-08	3.66-10	8.70-10
1.00 02	0.	0.	0.	0.	1.39-11	6.24-09	7.06-10	7.48-10
1.20 02	0.	0.	0.	0.	1.36-10	3.15-09	1.20-09	1.03-09
1.40 02	0.	0.	0.	0.	0.	1.77-09	6.78-10	4.24-10
1.60 02	0.	0.	0.	0.	0.	9.67-11	6.81-10	2.14-10
1.80 02	0.	0.	0.	0.	0.	2.23-11	1.64-10	2.85-10
	0.	0.	0.	6.54-09	3.27-08	2.03-08	4.72-09	1.61-09
	0.	0.	0.	1.63-09	2.78-09	1.49-09	1.58-09	2.91-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	1.73-08	0.	7.57-09	6.82-10
4.00 01	0.	0.	0.	0.	0.	1.44-16	2.52-10	7.75-10
6.00 01	0.	0.	0.	0.	1.05-08	1.93-11	1.53-08	1.28-09
8.00 01	0.	0.	0.	0.	0.	4.45-10	9.65-10	6.56-10
9.00 01	0.	0.	0.	0.	0.	3.26-11	1.16-09	2.01-08
1.00 02	0.	0.	0.	0.	3.84-11	2.08-09	4.18-10	3.61-10
1.20 02	0.	0.	0.	0.	9.91-11	1.92-10	4.03-09	1.17-09
1.40 02	0.	0.	0.	0.	1.71-15	4.68-12	7.42-10	5.02-10
1.60 02	0.	0.	0.	0.	0.	8.48-12	1.43-09	5.97-10
1.80 02	0.	0.	0.	0.	0.	0.	7.07-11	3.21-10
	0.	0.	0.	0.	3.87-09	5.82-10	6.91-09	4.92-09
	0.	0.	0.	0.	2.97-09	3.63-10	3.54-09	3.45-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	7.84-11	2.08-09
4.00 01	0.	0.	0.	0.	0.	1.76-11	1.58-09	1.49-09
6.00 01	0.	0.	0.	0.	0.	0.	2.94-09	3.94-10
8.00 01	0.	0.	0.	0.	0.	0.	1.13-09	2.64-09
9.00 01	0.	0.	0.	0.	0.	3.51-11	4.61-10	9.87-10
1.00 02	0.	0.	0.	0.	0.	0.	2.52-09	2.34-10
1.20 02	0.	0.	0.	0.	0.	0.	3.16-09	9.96-10
1.40 02	0.	0.	0.	0.	0.	0.	4.08-10	5.38-10
1.60 02	0.	0.	0.	0.	0.	1.19-12	1.33-09	5.37-10
1.80 02	0.	0.	0.	0.	0.	0.	2.36-11	1.29-10
	0.	0.	0.	0.	0.	9.35-12	3.32-09	2.13-09
	0.	0.	0.	0.	0.	6.81-12	1.02-09	5.43-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	5.82-09	1.51-10
4.00 01	0.	0.	0.	0.	0.	0.	2.83-10	2.27-09
6.00 01	0.	0.	0.	0.	0.	0.	1.22-09	3.00-09
8.00 01	0.	0.	0.	0.	0.	0.	4.04-09	1.44-09
9.00 01	0.	0.	0.	0.	0.	0.	6.73-12	7.29-09
1.00 02	0.	0.	0.	0.	0.	1.20-12	1.27-11	2.76-10
1.20 02	0.	0.	0.	0.	0.	0.	2.75-10	9.17-09
1.40 02	0.	0.	0.	0.	0.	0.	2.49-10	3.03-10
1.60 02	0.	0.	0.	0.	0.	1.40-12	4.88-10	3.97-10
1.80 02	0.	0.	0.	0.	0.	0.	1.47-10	4.77-11
	0.	0.	0.	0.	0.	4.52-13	2.30-09	6.13-09
	0.	0.	0.	0.	0.	3.20-13	1.36-09	3.05-09

20137660 0235 327726202331

AIR SCATTERING 4.32 02 ENERGY 1.00 ANGLE 9.00 01 DIST. 6.10 02
5.40 01 1.74 03 0. 0. 5.56 04 5.00 01 1.80 03

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
0.	0.	0.	0.	0.	0.	0.	3.10-08	
0.	0.	0.	0.	0.	0.	0.	9.60-09	
0.	0.	0.	0.	0.	0.	0.	5.66-09	
0.	0.	0.	0.	0.	0.	0.	3.63-09	
0.	0.	0.	0.	0.	0.	0.	1.03-09	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							6.41-09	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
4.04-09	5.64-10	5.12-10	5.71-11	3.82-12	2.92-16	4.24-25	2.00-08	3.53-09
2.31-09	1.07-09	3.93-10	9.59-11	4.48-12	1.97-16	1.35-27	6.42-09	9.69-10
8.23-10	5.06-10	2.94-09	1.10-10	2.07-12	6.61-17	8.83-25	4.54-09	5.54-10
1.07-09	3.09-09	2.63-09	7.76-11	7.78-12	2.04-17	7.32-23	3.06-09	2.30-10
1.73-09	2.67-10	3.62-10	2.52-11	5.49-13	2.92-16	1.85-26	1.26-09	1.01-10
1.26-09	2.29-09	1.69-10	2.99-11	7.88-13	1.83-17	6.03-26	4.35-10	1.41-10
4.46-10	2.60-10	4.09-10	3.49-11	8.38-12	8.88-15	1.74-26	2.73-10	6.94-11
3.97-10	5.67-10	4.70-10	1.94-11	2.76-13	5.82-17	1.71-25	1.54-10	5.54-11
7.27-10	3.52-10	2.59-10	5.20-11	2.47-13	2.34-16	7.31-25	6.64-11	2.23-11
3.94-11	4.79-10	4.99-10	1.26-11	1.32-13	5.55-18	3.13-24	3.16-11	1.12-11
2.11-09	2.13-09	2.17-09	1.10-10	7.19-12	3.08-15	2.45-23		
3.75-10	7.75-10	9.63-10	2.97-11	3.33-12	2.89-15	2.29-23	4.96-09	3.23-10

PHI 45 TO 90 DEGREES

4.12-09	1.62-10	4.22-11	1.70-11	1.18-12	3.29-17	7.85-24	1.99-09	1.58-09
3.51-10	8.15-10	8.14-10	1.33-10	3.72-12	4.67-17	1.10-26	6.54-11	1.42-11
9.73-10	1.59-10	3.25-10	4.48-11	1.06-12	1.32-15	1.81-26	1.63-09	1.48-09
9.28-10	6.31-10	2.66-10	7.27-10	2.04-11	1.43-15	2.94-25	1.26-10	2.80-11
2.68-09	1.48-09	4.55-09	1.50-11	1.32-11	4.63-17	5.31-23	8.74-10	6.78-10
5.18-10	3.15-09	1.31-09	5.02-11	3.13-12	5.35-17	4.87-24	2.13-10	1.07-10
2.10-09	7.03-09	6.26-10	1.46-10	3.42-12	3.45-15	7.80-22	3.86-10	1.31-10
2.62-09	8.86-11	2.15-09	6.05-12	1.33-13	3.21-15	9.04-27	1.40-10	4.51-11
7.80-10	1.16-10	5.40-10	4.51-10	3.18-11	2.85-16	3.12-27	1.10-10	3.25-11
4.42-11	6.68-10	1.93-10	4.47-10	4.61-13	2.20-13	1.09-27	3.12-11	8.64-12
2.95-09	3.55-09	2.22-09	4.39-10	1.72-11	1.61-14	2.65-22		
8.00-10	1.64-09	9.05-10	1.90-10	9.98-12	1.33-14	2.52-22	9.78-10	5.16-10

PHI 90 TO 135 DEGREES

8.32-10	3.98-10	1.20-10	3.37-11	3.69-13	5.24-16	5.28-30	1.02-10	5.33-11
2.40-10	1.19-10	3.58-10	6.87-11	7.20-12	5.25-16	4.37-25	1.28-10	4.62-11
3.90-10	2.04-10	2.06-10	9.36-11	9.95-13	5.45-17	1.52-24	1.47-10	6.90-11
1.82-09	6.90-10	2.85-10	3.69-10	4.36-13	1.19-16	1.27-25	1.90-10	6.60-11
1.49-09	1.03-10	1.21-10	1.19-10	9.58-14	1.80-16	3.48-26	9.50-11	2.44-11
3.80-10	3.20-10	9.14-10	1.06-09	8.10-12	1.11-15	1.23-26	1.44-10	7.61-11
1.90-10	5.08-10	2.31-10	2.35-10	5.10-12	5.38-14	2.18-24	1.78-10	1.03-10
1.31-09	6.13-10	6.46-11	1.63-10	1.07-11	7.86-15	7.18-25	7.88-11	2.26-11
4.84-10	1.91-10	1.52-10	5.24-11	2.97-11	1.01-17	9.97-28	8.91-11	2.98-11
6.06-11	9.08-11	2.55-10	2.63-11	2.63-14	5.93-19	5.67-26	1.15-11	3.77-12
1.51-09	7.65-10	5.32-10	4.95-10	1.28-11	2.00-14	1.44-24		
3.61-10	1.89-10	1.40-10	1.87-10	6.67-12	1.55-14	8.38-25	2.66-10	5.02-11

PHI 135 TO 180 DEGREES

1.46-09	2.21-10	1.53-10	3.48-11	1.31-13	3.00-18	2.26-26	2.80-10	2.25-10
2.61-10	7.39-10	6.39-11	3.98-11	8.70-14	1.65-15	4.07-27	1.07-10	4.92-11
2.19-10	4.82-10	2.84-10	6.98-11	3.38-12	1.37-17	4.01-27	1.67-10	6.91-11
8.15-10	2.37-10	4.37-10	1.88-10	2.55-13	1.05-17	1.49-25	2.41-10	1.60-10
3.37-10	8.55-10	7.43-11	7.68-11	1.10-12	4.39-18	9.83-26	2.71-10	2.29-10
5.67-10	4.20-10	9.30-11	5.61-12	2.16-10	2.47-16	3.46-27	3.29-11	1.08-11
1.70-09	5.89-10	7.53-10	1.29-11	3.37-11	1.40-14	1.56-25	3.83-10	2.91-10
9.51-10	3.92-09	8.84-10	5.75-11	1.17-12	3.83-16	1.13-27	1.14-10	5.78-11
1.50-10	1.56-10	3.56-10	1.43-10	1.69-13	1.63-16	4.15-26	4.47-11	1.76-11
8.41-10	3.04-11	7.57-11	7.18-11	1.23-14	1.09-16	1.13-28	3.05-11	1.69-11
1.50-09	1.83-09	8.09-10	1.52-10	5.00-11	5.04-15	1.28-25		
5.22-10	9.74-10	4.28-10	6.47-11	4.83-11	4.57-15	7.46-28	3.77-10	1.24-10
							1.03-08	1.05-09

AIR SCATTERING 4.33 02 ENERGY 1.00 ANGLE 1.35 02 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	0.	0.	4.15-07	0.	0.	0.
4.00 01	0.	0.	0.	0.	1.39-08	1.72-07	0.	0.
6.00 01	0.	0.	0.	0.	0.	6.01-09	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	2.74-08	3.15-08	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	0.	0.	2.64-07	5.70-08	1.15-09	7.58-10
4.00 01	0.	0.	0.	0.	1.18-08	1.34-07	9.45-10	2.09-09
6.00 01	0.	0.	0.	0.	1.84-10	1.43-08	1.39-09	1.41-09
8.00 01	0.	0.	0.	0.	2.71-14	5.36-09	1.03-09	7.25-10
9.00 01	0.	0.	0.	0.	0.	1.34-09	7.30-10	4.82-10
1.00 02	0.	0.	0.	0.	0.	6.35-10	1.58-09	3.93-10
1.20 02	0.	0.	0.	0.	0.	6.90-12	4.45-09	1.85-09
1.40 02	0.	0.	0.	0.	0.	6.69-15	2.82-10	3.45-10
1.60 02	0.	0.	0.	0.	0.	0.	7.77-10	2.15-10
1.80 02	0.	0.	0.	0.	0.	0.	1.05-11	1.10-10
	0.	0.	0.	0.	1.80-08	3.25-08	3.00-09	1.91-09
	0.	0.	0.	0.	2.10-09	3.21-09	8.51-10	5.22-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.72-09	1.35-09	6.47-10
4.00 01	0.	0.	0.	0.	8.29-13	2.24-09	2.57-09	1.10-09
6.00 01	0.	0.	0.	0.	0.	1.66-09	8.95-10	1.11-09
8.00 01	0.	0.	0.	0.	0.	3.79-10	1.09-09	7.24-10
9.00 01	0.	0.	0.	0.	0.	5.47-11	1.40-09	1.86-10
1.00 02	0.	0.	0.	0.	0.	0.	3.93-09	2.05-10
1.20 02	0.	0.	0.	0.	0.	5.34-11	5.45-10	8.13-10
1.40 02	0.	0.	0.	0.	0.	0.	3.98-10	5.48-10
1.60 02	0.	0.	0.	0.	0.	0.	4.16-10	2.47-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.11-11
	0.	0.	0.	0.	1.44-13	1.08-09	2.40-09	1.25-09
	0.	0.	0.	0.	1.44-13	2.36-10	6.78-10	2.18-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	7.31-10	3.45-09	2.13-10
4.00 01	0.	0.	0.	0.	0.	7.58-11	2.42-09	3.86-10
6.00 01	0.	0.	0.	0.	0.	2.83-10	2.82-09	1.03-09
8.00 01	0.	0.	0.	0.	0.	5.49-14	9.17-10	5.71-10
9.00 01	0.	0.	0.	0.	0.	1.03-14	2.62-09	2.97-10
1.00 02	0.	0.	0.	0.	0.	0.	9.79-10	2.77-10
1.20 02	0.	0.	0.	0.	0.	0.	2.93-10	5.84-10
1.40 02	0.	0.	0.	0.	0.	0.	1.94-11	1.02-09
1.60 02	0.	0.	0.	0.	0.	0.	8.10-10	6.29-10
1.80 02	0.	0.	0.	0.	0.	0.	1.05-11	9.79-11
	0.	0.	0.	0.	0.	1.33-10	2.54-09	1.22-09
	0.	0.	0.	0.	0.	7.60-11	5.76-10	3.10-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	8.73-12	4.77-12	6.59-09	5.40-10
4.00 01	0.	0.	0.	0.	0.	3.75-12	1.04-09	4.95-10
6.00 01	0.	0.	0.	0.	0.	0.	2.15-09	4.94-10
8.00 01	0.	0.	0.	0.	0.	2.46-13	1.03-09	2.80-10
9.00 01	0.	0.	0.	0.	0.	4.01-13	1.41-09	1.42-09
1.00 02	0.	0.	0.	0.	0.	0.	4.62-10	1.51-09
1.20 02	0.	0.	0.	0.	0.	4.58-12	5.29-11	3.19-10
1.40 02	0.	0.	0.	0.	0.	0.	4.67-11	8.00-10
1.60 02	0.	0.	0.	0.	0.	3.53-12	7.41-11	3.65-09
1.80 02	0.	0.	0.	0.	0.	0.	1.63-10	1.30-11
	0.	0.	0.	0.	5.27-13	3.19-12	1.86-09	1.80-09
	0.	0.	0.	0.	5.27-13	1.69-12	6.59-10	5.75-10

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AIR SCATTERING 4.33 02 ENERGY 1.00 ANGLE 1.35 02 DIST. 6.10 02

4.20 01	1.75 03	0.	0.	5.54 04	5.00 01	1.80 03	

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	3.73-08
0.	0.	0.	0.	0.	0.	0.	9.86-09
0.	0.	0.	0.	0.	0.	0.	3.00-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	4.04-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
9.49-10	7.51-10	8.76-11	3.42-11	5.44-13	8.36-17	1.29-26	2.67-08	3.68-09
1.64-09	1.14-09	2.80-10	2.78-11	1.27-12	2.86-16	7.12-27	7.92-09	6.28-10
2.01-09	7.66-10	3.11-10	1.28-10	2.73-12	4.80-18	8.73-25	9.00-10	1.55-10
5.70-10	2.68-10	5.62-10	3.37-11	1.01-12	2.80-17	8.87-27	3.59-10	1.01-10
5.40-10	4.12-10	1.27-10	1.13-10	2.89-11	2.45-17	5.61-28	1.35-10	3.72-11
6.69-10	9.07-10	4.12-10	1.69-11	6.49-12	6.45-17	7.03-27	1.44-10	5.71-11
3.87-10	7.55-10	3.18-10	6.03-11	2.03-13	4.11-18	4.45-27	2.66-10	1.37-10
1.37-09	6.23-10	5.70-10	3.96-11	3.89-12	7.36-17	7.36-23	7.40-11	2.43-11
9.02-11	1.12-10	7.45-11	3.86-11	2.68-12	3.29-15	3.53-31	4.36-11	2.19-11
1.44-10	4.79-11	6.79-11	1.28-10	4.64-18	1.58-19	1.87-28	1.05-11	4.25-12
1.79-09	1.20-09	6.86-10	1.21-10	9.02-12	8.06-16	1.98-23		
3.99-10	2.40-10	1.27-10	3.06-11	6.08-12	5.90-18	1.96-23	3.51-09	2.73-10

PHI 45 TO 90 DEGREES

9.09-10	6.25-10	3.11-10	1.18-10	4.96-13	1.18-16	6.00-22	1.99-10	5.72-11
8.00-10	2.34-10	2.36-09	1.01-09	2.50-11	1.19-15	9.09-20	3.13-10	6.47-11
5.76-10	8.18-10	3.15-10	4.80-10	8.04-13	6.56-15	9.14-25	1.91-10	4.03-11
9.97-10	7.68-10	2.85-10	1.73-11	8.81-12	1.36-15	6.31-27	1.27-10	2.31-11
2.79-09	3.50-10	4.79-10	1.04-10	4.44-12	7.43-17	1.26-21	1.47-10	6.51-11
3.84-10	1.64-09	1.46-09	4.44-10	2.07-14	4.18-15	2.03-25	2.20-10	1.42-10
9.43-10	1.54-09	6.13-10	8.03-11	4.07-12	4.81-15	1.30-26	1.07-10	2.36-11
8.51-10	4.20-10	9.35-10	1.36-10	9.71-12	7.32-16	1.96-26	7.46-11	1.98-11
2.16-10	7.72-11	1.07-10	2.51-10	4.86-13	2.26-16	4.04-22	2.78-11	1.27-11
1.10-10	3.10-10	5.34-11	6.98-10	3.40-15	4.43-16	4.92-27	1.47-11	7.86-12
1.80-09	1.54-09	1.41-09	5.54-10	1.22-11	4.97-15	1.61-20		
4.39-10	3.91-10	5.21-10	1.98-10	5.34-12	2.43-15	1.58-20	2.83-10	3.60-11

PHI 90 TO 135 DEGREES

2.03-10	4.20-10	2.16-10	2.54-11	1.10-11	4.55-17	2.05-25	1.96-10	9.06-11
1.15-09	2.55-09	1.29-10	1.92-11	5.62-13	9.90-16	3.05-29	1.82-10	7.83-11
1.73-09	2.74-10	5.29-10	3.77-11	1.27-13	7.87-17	1.62-27	2.16-10	6.69-11
2.25-10	5.51-10	1.34-10	7.43-11	6.88-12	4.84-14	3.26-27	7.23-11	2.54-11
5.22-10	2.20-10	1.07-10	2.42-11	2.38-11	1.51-14	5.91-23	1.33-10	7.99-11
5.07-10	5.45-10	4.22-11	2.66-11	1.20-12	1.34-15	3.92-24	7.02-11	2.42-11
5.76-09	1.15-10	3.47-10	4.95-10	6.77-13	1.82-16	7.57-26	1.86-10	1.32-10
7.59-10	1.03-10	2.58-10	1.44-10	2.65-12	1.20-15	8.44-27	6.04-11	2.94-11
3.90-10	9.30-11	2.87-11	5.49-11	3.34-12	7.92-16	9.51-23	6.58-11	4.71-11
1.78-10	1.65-10	5.89-12	9.59-13	1.34-12	1.13-15	1.90-25	1.08-11	5.40-12
3.08-09	9.44-10	4.33-10	2.57-10	8.98-12	1.94-14	2.75-23		
1.81-09	4.36-10	1.05-10	1.70-10	4.90-12	1.54-14	1.98-23	2.49-10	5.50-11

PHI 135 TO 180 DEGREES

4.17-09	6.21-09	2.11-09	2.27-11	7.35-12	1.77-16	1.18-32	5.06-10	2.84-10
6.92-09	5.49-10	8.13-11	1.70-11	3.30-13	1.43-16	1.14-26	2.41-10	1.47-10
2.21-10	1.23-09	1.22-10	4.63-11	7.18-12	1.82-16	1.25-27	1.29-10	6.79-11
4.71-10	5.29-10	1.13-09	3.60-11	8.79-13	1.12-15	9.35-32	8.42-11	2.04-11
1.51-09	5.35-10	4.14-10	5.33-12	9.46-14	5.98-17	2.51-22	1.55-10	6.91-11
4.20-10	3.02-10	2.34-10	3.85-11	5.47-13	6.39-17	5.26-21	8.79-11	5.17-11
4.55-10	5.49-10	1.97-10	3.10-11	3.53-12	1.76-16	2.19-22	3.55-11	1.11-11
5.23-10	1.57-09	3.87-11	3.18-11	8.55-13	4.67-15	3.61-23	6.64-11	2.82-11
3.91-10	4.40-10	9.35-11	1.04-10	1.43-12	3.60-16	3.37-32	1.46-10	9.38-11
1.36-09	1.35-10	2.73-11	2.31-12	1.85-12	8.18-19	3.15-27	4.32-11	3.19-11
2.44-09	1.80-09	7.48-10	7.24-11	4.46-12	1.83-15	1.04-21		
1.21-09	6.14-10	3.37-10	2.19-11	2.10-12	1.30-15	1.03-21	2.33-10	4.90-11
							6.71-09	4.85-10

AIR SCATTERING 4.34 02 ENERGY 1.00 ANGLE 1.80 02 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	0.	0.	0.	1.17-06	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	7.07-08	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	0.	0.	9.68-11	7.66-07	3.96-10	6.12-10
4.00 01	0.	0.	0.	0.	9.00-13	3.62-09	1.89-09	3.62-09
6.00 01	0.	0.	0.	0.	0.	1.13-09	1.07-09	6.75-10
8.00 01	0.	0.	0.	0.	0.	1.77-11	1.81-09	3.73-10
9.00 01	0.	0.	0.	0.	0.	1.03-13	5.20-10	2.88-10
1.00 02	0.	0.	0.	0.	0.	0.	6.47-10	3.29-10
1.20 02	0.	0.	0.	0.	0.	0.	2.88-10	1.02-09
1.40 02	0.	0.	0.	0.	0.	0.	1.52-10	3.46-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.00-09
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.34-09
	0.	0.	0.	0.	5.99-12	4.72-08	1.57-09	2.58-09
	0.	0.	0.	0.	4.52-12	3.40-09	3.95-10	9.61-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	2.38-11	2.83-08	4.20-10	6.37-10
4.00 01	0.	0.	0.	0.	7.92-13	8.28-09	5.59-10	1.14-09
6.00 01	0.	0.	0.	0.	7.78-15	4.81-10	2.94-09	2.25-09
8.00 01	0.	0.	0.	0.	0.	5.42-15	1.81-09	6.79-10
9.00 01	0.	0.	0.	0.	0.	0.	1.13-09	4.46-10
1.00 02	0.	0.	0.	0.	0.	0.	1.17-09	3.28-10
1.20 02	0.	0.	0.	0.	0.	0.	1.32-09	7.85-10
1.40 02	0.	0.	0.	0.	0.	0.	2.07-09	2.01-09
1.60 02	0.	0.	0.	0.	0.	0.	2.75-11	1.64-09
1.80 02	0.	0.	0.	0.	0.	0.	0.	6.01-10
	0.	0.	0.	0.	1.58-12	3.27-09	2.88-09	2.30-09
	0.	0.	0.	0.	1.10-12	1.05-09	6.48-10	5.15-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	1.56-13	2.80-08	1.94-09	2.06-09
4.00 01	0.	0.	0.	0.	3.63-16	3.93-09	5.36-10	5.36-10
6.00 01	0.	0.	0.	0.	0.	6.52-10	3.39-09	1.41-09
8.00 01	0.	0.	0.	0.	0.	3.29-12	4.65-10	3.68-10
9.00 01	0.	0.	0.	0.	0.	0.	1.85-10	2.83-10
1.00 02	0.	0.	0.	0.	0.	1.83-12	7.92-10	1.55-10
1.20 02	0.	0.	0.	0.	0.	0.	6.04-10	3.32-10
1.40 02	0.	0.	0.	0.	0.	4.09-12	1.09-09	2.45-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.28-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	6.84-11
	0.	0.	0.	0.	9.46-15	2.55-09	1.92-09	1.66-09
	0.	0.	0.	0.	8.99-15	7.91-10	5.31-10	4.21-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	4.01-11	1.73-08	1.77-09	2.41-09
4.00 01	0.	0.	0.	0.	1.67-12	4.01-09	2.19-09	9.82-10
6.00 01	0.	0.	0.	0.	7.04-14	1.17-09	2.43-09	1.43-09
8.00 01	0.	0.	0.	0.	3.89-14	5.05-11	9.76-10	1.66-10
9.00 01	0.	0.	0.	0.	2.19-13	0.	3.77-09	3.03-10
1.00 02	0.	0.	0.	0.	0.	7.11-11	1.65-09	6.28-10
1.20 02	0.	0.	0.	0.	0.	3.42-11	4.83-09	3.43-10
1.40 02	0.	0.	0.	0.	0.	1.17-11	7.08-10	9.53-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.69-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	8.27-12
	0.	0.	0.	0.	2.78-12	2.09-09	4.16-09	1.39-09
	0.	0.	0.	0.	2.41-12	4.76-10	1.62-09	2.44-10

307200201645 22470762771 1

AIR SCATTERING 4.34 02 ENERGY 1.00 ANGLE 1.80 02 DIST. 6.10 02
5.20 01 1.73 03 0. 0. 5.56 04 5.00 01 1.80 03

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	5.86-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	3.54-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
3.53-09	3.41-10	2.26-10	1.75-11	4.39-13	7.95-17	8.99-29	3.85-08	2.79-09
1.15-09	4.69-10	1.73-10	3.06-11	7.76-13	9.77-14	3.35-25	4.18-10	1.10-10
6.35-10	4.32-10	1.96-10	3.77-11	1.33-12	2.44-14	8.11-26	1.47-10	5.18-11
4.18-10	5.58-10	4.44-10	4.97-11	3.37-12	2.76-17	5.66-28	1.11-10	3.84-11
6.75-10	8.08-11	3.30-10	1.11-10	1.15-12	8.58-16	1.53-25	5.37-11	1.88-11
6.11-10	2.03-10	6.28-10	8.72-12	2.51-12	5.05-16	5.18-27	6.30-11	2.07-11
5.57-10	2.79-10	2.18-10	1.30-11	8.42-14	1.36-17	4.00-23	6.71-11	1.69-11
2.42-08	1.66-10	1.97-10	1.23-11	8.60-13	5.39-17	2.34-24	7.33-10	5.97-10
2.50-10	5.41-10	1.25-10	7.68-12	4.86-13	5.90-16	4.01-24	5.00-11	2.05-11
5.12-11	1.44-11	2.79-10	1.05-11	2.21-13	4.03-16	1.46-30	5.05-11	3.28-11
7.60-09	6.78-10	5.69-10	6.29-11	2.61-12	2.39-14	1.45-23		
6.23-09	1.39-10	1.30-10	1.47-11	1.11-12	2.34-14	1.30-23	2.72-09	2.40-10

PHI 45 TO 90 DEGREES

1.06-09	5.58-10	7.16-10	2.76-10	4.90-11	1.92-19	1.45-31	1.50-09	4.74-10
5.03-10	1.40-09	1.50-10	6.14-11	5.50-13	5.40-15	4.39-24	5.11-10	2.56-10
4.65-10	3.72-10	2.03-10	5.21-11	2.04-13	4.79-14	9.90-26	2.38-10	6.03-11
7.43-10	2.10-10	3.25-10	1.32-10	2.55-12	8.78-16	6.68-29	1.22-10	4.31-11
4.03-10	2.82-10	9.33-11	2.57-11	1.43-12	7.25-15	2.39-27	7.60-11	3.92-11
1.91-10	7.37-11	5.41-10	3.52-11	4.24-13	1.08-16	6.49-23	7.06-11	3.67-11
2.34-10	3.89-10	6.74-11	2.58-11	3.21-13	4.38-16	2.94-24	9.22-11	3.47-11
7.24-10	1.70-10	1.84-10	1.08-10	6.25-14	2.51-18	1.35-23	1.75-10	6.34-11
5.15-10	1.03-10	5.91-10	1.18-10	7.06-15	3.88-17	1.44-31	7.95-11	2.67-11
1.38-10	1.63-11	4.97-11	1.64-12	9.56-14	3.68-16	1.12-30	2.47-11	1.87-11
9.87-10	6.97-10	5.16-10	1.52-10	4.39-12	1.54-14	1.66-23		
1.76-10	1.73-10	1.77-10	5.14-11	2.98-12	1.27-14	1.27-23	4.00-10	6.25-11

PHI 90 TO 135 DEGREES

7.67-10	5.76-10	9.83-11	2.31-11	3.34-11	9.07-18	1.34-27	1.58-09	6.27-10
8.05-10	2.17-10	2.85-09	3.23-11	3.51-12	3.80-17	2.01-27	2.94-10	6.93-11
3.65-10	2.46-10	1.36-10	1.41-11	5.25-13	1.90-15	4.24-24	2.31-10	7.11-11
2.50-10	6.58-10	1.67-09	1.54-11	7.99-13	2.65-16	5.15-23	6.76-11	2.17-11
2.30-10	1.44-10	1.75-09	8.98-11	2.05-13	4.73-16	7.56-27	4.68-11	2.03-11
2.18-10	5.61-10	2.60-11	4.83-11	4.64-12	4.06-15	1.41-18	5.17-11	1.79-11
5.08-10	4.84-10	1.59-10	8.92-11	2.57-11	3.24-17	3.46-20	5.83-11	1.88-11
2.17-10	3.91-10	1.19-10	1.02-10	4.54-12	4.18-17	5.00-22	1.40-10	5.95-11
1.49-10	4.99-11	1.68-10	1.47-11	6.07-13	3.60-16	2.68-26	2.80-11	1.04-11
7.95-11	5.37-10	1.43-10	4.50-11	5.94-13	3.60-20	4.50-31	1.45-11	8.20-12
6.96-10	7.78-10	1.51-09	1.01-10	1.36-11	1.47-15	2.56-19		
1.26-10	1.88-10	1.17-09	2.82-11	7.62-12	9.04-16	2.55-19	3.09-10	4.99-11

PHI 135 TO 180 DEGREES

1.12-09	5.03-10	2.55-10	3.09-10	3.06-11	7.38-17	2.91-26	1.06-09	3.11-10
3.89-09	7.89-09	5.24-09	1.26-10	1.40-12	6.81-16	5.86-28	6.01-10	2.04-10
1.07-09	1.06-09	2.47-10	7.10-11	4.73-13	2.28-14	9.36-26	2.51-10	5.75-11
4.78-10	3.41-10	1.57-10	9.62-11	2.12-12	3.35-14	6.50-21	6.70-11	1.86-11
3.62-10	4.53-10	2.59-10	2.94-10	4.10-12	7.19-15	2.94-27	1.83-10	1.23-10
1.40-09	3.89-10	2.81-10	1.14-11	2.58-13	6.49-16	6.64-29	1.35-10	5.15-11
4.14-10	2.31-09	3.95-10	2.10-11	6.25-13	4.82-17	3.43-21	2.56-10	1.84-10
4.85-10	2.66-10	4.13-10	4.99-11	3.00-12	3.76-15	1.75-26	8.23-11	2.87-11
9.61-10	1.64-10	8.82-11	1.15-10	1.67-14	1.33-19	1.60-24	5.13-11	2.18-11
1.12-11	2.71-11	1.37-10	1.72-10	2.44-15	1.94-19	6.41-34	4.16-12	2.97-12
1.92-09	2.79-09	1.40-09	1.94-10	4.67-12	1.95-14	3.24-21		
5.34-10	1.44-09	8.56-10	6.15-11	2.10-12	1.04-14	2.40-21	4.27-10	8.62-11
							6.05-09	4.75-10

AIR SCATTERING 4.35 02 ENERGY 6.00-01 ANGLE 1.00 DIST 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	9.74-05	0.	0.	0.	0.	0.	0.	0.
4.00 01	1.65-05	0.	0.	0.	0.	0.	0.	0.
6.00 01	7.78-06	1.20-05	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	1.48-05	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	1.09-05	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	8.01-06	0.	0.	0.
1.60 02	0.	0.	0.	0.	1.52-05	0.	0.	0.
1.80 02	0.	0.	0.	0.	4.34-05	0.	0.	0.
	1.08-05	3.19-06	2.56-06	3.57-06	7.39-06	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	6.20-05	0.	0.	0.	0.	9.39-08	1.85-08	6.95-10
4.00 01	1.05-05	0.	0.	0.	0.	4.08-09	1.70-09	8.91-10
6.00 01	4.95-06	7.64-06	0.	0.	0.	4.89-09	1.53-07	3.54-10
8.00 01	0.	0.	0.	0.	0.	5.63-09	1.77-09	2.68-10
9.00 01	0.	0.	9.40-06	0.	0.	1.06-09	1.08-09	2.42-10
1.00 02	0.	0.	0.	0.	0.	9.38-10	5.98-09	1.80-09
1.20 02	0.	0.	0.	6.97-06	2.15-10	4.76-09	1.13-09	4.79-09
1.40 02	0.	0.	0.	0.	5.10-06	2.58-09	2.90-09	1.74-09
1.60 02	0.	0.	0.	4.03-13	9.68-06	4.92-10	1.64-09	2.44-09
1.80 02	0.	0.	0.	1.31-09	2.77-05	3.22-09	4.36-09	2.56-09
	6.88-06	2.03-06	1.63-06	2.27-06	4.71-06	1.24-08	4.56-08	3.34-09
	2.08-06	2.03-06	1.63-06	2.27-06	1.75-06	6.02-09	3.43-08	9.06-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	7.34-08	0.	0.	8.61-10	2.59-08	7.28-11
4.00 01	0.	0.	0.	0.	0.	9.29-12	6.37-09	5.39-09
6.00 01	0.	0.	0.	0.	1.21-12	2.75-12	7.03-10	4.44-10
8.00 01	0.	0.	0.	0.	4.99-08	6.78-10	5.22-08	6.22-10
9.00 01	0.	0.	0.	0.	1.01-08	1.59-08	4.89-10	4.08-09
1.00 02	0.	0.	0.	0.	1.06-10	1.90-09	2.39-09	1.86-09
1.20 02	0.	0.	0.	0.	1.93-10	3.23-09	9.90-10	3.02-09
1.40 02	0.	0.	0.	6.92-12	2.67-09	4.90-09	2.07-09	2.18-09
1.60 02	0.	0.	0.	1.79-10	4.13-09	1.92-09	1.77-09	8.55-10
1.80 02	0.	0.	2.83-11	2.40-09	4.53-08	7.23-09	1.44-09	5.59-09
	0.	0.	4.43-09	1.77-10	2.23-08	6.50-09	2.16-08	4.34-09
	0.	0.	4.42-09	9.73-11	1.65-08	2.64-09	1.50-08	1.24-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	7.19-12	3.29-08	1.30-10
4.00 01	0.	0.	5.23-08	0.	0.	3.55-11	3.06-08	2.26-10
6.00 01	0.	0.	0.	0.	0.	6.25-11	5.58-09	6.10-10
8.00 01	0.	0.	0.	0.	1.90-12	1.61-09	8.05-09	5.63-10
9.00 01	0.	0.	0.	0.	3.20-13	6.54-10	6.68-10	2.18-09
1.00 02	0.	0.	0.	0.	5.77-11	8.55-10	1.22-09	1.24-09
1.20 02	0.	0.	0.	0.	5.40-08	1.90-08	6.93-10	1.33-09
1.40 02	0.	0.	0.	9.34-10	1.59-09	1.94-09	1.33-09	5.71-09
1.60 02	0.	0.	7.53-11	9.37-12	8.10-09	1.19-08	1.34-09	8.00-10
1.80 02	0.	0.	2.08-10	6.58-11	4.92-08	5.76-10	2.15-09	1.74-09
	0.	0.	9.11-09	2.54-10	2.24-08	9.64-09	1.27-08	3.18-09
	0.	0.	9.08-09	2.23-10	1.76-08	5.82-09	4.28-09	1.34-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	4.38-08	4.42-08	4.06-09
4.00 01	0.	0.	0.	0.	0.	0.	8.02-09	1.21-10
6.00 01	0.	0.	0.	0.	0.	1.99-09	4.77-09	1.12-09
8.00 01	0.	0.	0.	0.	0.	1.91-09	6.30-10	2.94-10
9.00 01	0.	0.	0.	0.	0.	1.03-09	1.98-09	5.61-10
1.00 02	0.	0.	0.	2.96-11	0.	1.54-08	5.92-10	1.13-09
1.20 02	0.	0.	0.	0.	1.87-09	6.74-09	7.53-10	8.42-10
1.40 02	0.	0.	0.	1.50-09	7.38-10	3.31-09	2.02-08	9.11-10
1.60 02	0.	0.	9.91-11	1.03-09	1.16-08	9.77-09	7.86-10	1.24-09
1.80 02	0.	0.	3.55-10	4.10-11	1.92-08	1.05-09	2.68-09	1.63-09
	0.	0.	3.86-11	5.84-10	3.99-09	1.15-08	1.16-08	1.79-09
	0.	0.	2.51-11	4.10-10	1.50-09	3.63-09	5.29-09	3.64-10

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AIR SCATTERING 4.35 02 ENERGY 6.00-01 ANGLE 1.00 DIST. 6.10 02
6.40 01 1.72 03 0. 0. 5.62 04 5.00 01 1.80 03

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	1.46-05
0.	0.	0.	0.	0.	0.	0.	2.48-06
0.	0.	0.	0.	0.	0.	0.	2.37-06
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.48-06
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	5.47-07
0.	0.	0.	0.	0.	0.	0.	4.01-07
0.	0.	0.	0.	0.	0.	0.	7.60-07
0.	0.	0.	0.	0.	0.	0.	2.17-06
0.	0.	0.	0.	0.	0.	0.	
							2.75-06

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
4.59-11	4.10-10	1.05-09	1.75-12	5.44-14	9.12-17	4.83-32	9.30-06	2.38-06
6.25-10	1.30-09	2.52-10	2.57-11	3.94-12	9.34-21	1.33-22	1.58-06	1.13-06
5.03-10	1.34-09	2.47-10	1.04-11	9.12-14	1.95-16	4.65-28	1.51-06	1.07-06
5.39-10	3.94-09	2.24-10	8.08-12	7.22-13	1.59-18	8.10-27	2.80-10	1.21-10
5.07-10	3.84-10	1.97-10	5.37-12	1.10-13	1.97-17	3.03-29	9.40-07	9.39-07
3.11-09	7.30-11	6.18-11	3.41-11	3.38-14	5.21-17	9.45-26	3.07-10	1.19-10
5.52-10	1.62-10	2.32-10	2.33-11	9.18-13	1.69-15	5.27-23	3.49-07	3.48-07
5.22-10	1.15-09	2.32-10	5.23-11	6.94-12	9.52-17	3.48-22	2.55-07	2.55-07
1.95-09	4.03-10	1.35-10	6.99-11	2.05-13	3.19-17	2.08-22	4.84-07	2.95-07
8.55-10	1.42-09	1.90-10	3.30-12	1.67-14	4.09-17	3.87-29	1.39-06	3.41-07
1.76-09	2.49-09	4.63-10	5.07-11	3.15-12	6.56-16	1.69-22		
3.97-10	9.01-10	1.07-10	1.83-11	1.90-12	4.60-16	1.30-22	1.75-06	4.30-07

PHI 45 TO 90 DEGREES

2.08-10	4.75-10	3.35-10	3.14-12	4.63-14	6.58-15	1.96-25	8.15-09	7.36-09
3.74-10	2.37-09	1.61-10	4.38-12	1.28-14	6.55-18	8.22-28	3.32-10	1.74-10
2.01-09	5.26-10	1.21-09	9.93-12	2.22-13	2.02-17	1.40-26	8.77-11	3.00-11
1.62-09	2.96-10	2.75-09	8.57-11	2.11-14	3.39-17	1.74-26	4.16-09	2.85-09
6.48-09	8.26-10	1.91-10	1.27-11	4.15-14	8.88-18	3.04-27	1.22-09	6.86-10
4.39-10	2.03-10	2.23-09	1.67-11	2.62-13	2.02-16	1.34-26	2.04-10	6.72-11
1.77-09	2.07-08	3.16-10	1.35-11	9.15-13	1.37-15	1.41-22	4.42-10	2.01-10
7.63-10	2.61-09	1.45-10	8.81-12	2.26-13	3.30-16	7.25-23	4.29-10	1.26-10
5.21-09	1.38-09	8.50-10	5.96-12	1.86-13	1.01-16	4.32-19	4.70-10	9.59-11
6.44-10	5.16-10	3.91-09	8.44-12	9.57-13	9.06-19	2.59-25	2.82-09	1.43-09
4.06-09	8.58-09	2.21-09	4.49-11	5.72-13	1.00-15	7.51-20		
1.22-09	6.29-09	1.00-09	2.48-11	2.52-13	6.10-16	7.50-20	2.69-09	1.05-09

PHI 90 TO 135 DEGREES

6.76-10	2.73-10	4.09-11	9.63-13	1.93-15	1.25-19	1.80-22	1.01-09	9.49-10
6.15-10	9.97-10	3.18-10	1.91-11	2.18-12	1.28-18	8.29-22	6.18-09	5.26-09
7.71-10	1.46-09	1.50-10	1.54-10	8.46-14	2.42-17	2.01-23	2.14-10	1.08-10
1.15-09	7.12-10	4.85-09	1.88-11	5.26-15	2.75-18	1.30-26	3.80-10	1.98-10
6.57-10	1.31-09	3.58-10	1.07-10	1.32-14	1.22-19	2.51-25	1.14-10	4.11-11
7.60-10	2.18-10	9.64-10	1.74-10	2.89-14	4.29-19	1.21-27	1.18-10	3.58-11
3.18-10	2.37-10	2.71-10	7.83-10	1.10-12	6.78-17	5.72-27	3.34-09	2.73-09
6.47-10	8.10-09	8.52-11	1.13-10	1.38-12	2.45-17	1.24-23	4.34-10	1.88-10
6.79-10	2.07-08	5.21-10	8.35-12	2.24-09	1.66-15	7.25-21	1.06-09	4.64-10
1.58-09	3.72-10	2.86-10	3.51-11	1.35-13	1.46-16	6.08-28	2.64-09	1.60-09
1.46-09	6.93-09	2.13-09	3.88-10	3.90-10	3.34-16	1.42-21		
2.16-10	5.17-09	1.52-09	2.78-10	3.90-10	2.43-16	1.27-21	2.90-09	1.29-09

PHI 135 TO 180 DEGREES

3.10-09	2.94-10	9.37-11	5.53-13	6.48-14	4.76-22	1.13-33	2.79-09	1.61-09
2.13-09	2.87-10	6.40-11	4.91-11	7.10-13	7.84-20	1.97-28	2.30-10	1.15-10
1.04-09	1.36-09	1.77-09	1.57-11	1.77-14	2.54-17	5.88-29	2.77-10	8.26-11
3.17-09	6.16-10	4.24-10	3.97-11	1.80-13	9.72-19	6.46-27	1.56-10	5.44-11
7.42-10	1.40-09	1.46-10	6.18-12	1.03-13	3.93-18	5.48-26	1.32-10	3.92-11
7.80-10	1.79-09	1.84-09	1.91-12	1.13-13	2.51-18	8.89-26	5.55-10	3.11-10
6.93-10	7.16-10	6.48-10	7.46-12	2.40-13	4.08-15	4.85-24	3.63-10	1.26-10
1.34-09	2.08-09	2.53-10	5.47-11	5.65-13	4.99-18	4.30-28	8.87-10	5.55-10
1.28-09	7.35-10	3.25-10	5.29-10	4.95-14	2.46-18	7.44-27	1.02-09	4.48-10
3.20-09	5.27-10	3.34-11	7.15-11	3.42-14	1.03-17	5.16-27	1.21-09	2.89-10
3.13-09	2.13-09	1.27-09	1.40-10	4.67-13	1.34-15	1.61-24		
8.18-10	8.28-10	6.40-10	9.10-11	1.78-13	1.32-15	1.58-24	1.06-09	2.59-10
							2.76-06	6.76-07

AIR SCATTERING 4.36 02 ENERGY 6.00-01 ANGLE 1.50 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	5.04-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	5.61-07	7.47-07	0.	0.	0.	0.	0.	0.
6.00 01	0.	4.23-07	1.97-07	0.	0.	0.	0.	0.
8.00 01	0.	0.	3.24-07	0.	0.	0.	0.	0.
9.00 01	0.	0.	1.81-07	2.28-07	0.	0.	0.	0.
1.00 02	0.	0.	0.	6.16-07	0.	0.	0.	0.
1.20 02	0.	0.	0.	5.26-07	3.11-08	0.	0.	0.
1.40 02	0.	0.	0.	0.	6.89-07	0.	0.	0.
1.60 02	0.	0.	0.	0.	9.61-07	0.	0.	0.
1.80 02	0.	0.	0.	0.	2.90-07	0.	0.	0.
	4.02-07	2.42-07	1.90-07	3.18-07	3.78-07	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	3.21-06	0.	0.	1.32-07	0.	0.	6.38-11	1.02-11
4.00 01	3.57-07	4.75-07	0.	0.	0.	0.	7.45-08	3.81-10
6.00 01	0.	2.69-07	1.25-07	0.	0.	2.72-09	3.04-09	4.20-09
8.00 01	0.	0.	2.06-07	0.	0.	2.84-09	3.03-09	5.04-10
9.00 01	0.	0.	1.15-07	2.98-07	9.10-08	4.51-09	2.00-09	5.37-10
1.00 02	0.	0.	0.	3.92-07	3.02-13	6.24-09	2.34-09	1.42-09
1.20 02	0.	0.	0.	3.35-07	2.97-08	2.22-08	9.14-10	1.24-09
1.40 02	0.	0.	0.	0.	4.48-07	3.86-09	3.12-09	1.57-09
1.60 02	0.	0.	0.	1.18-10	6.36-07	7.13-10	2.07-09	2.04-09
1.80 02	0.	0.	1.70-11	1.09-10	2.23-07	1.10-09	3.62-09	1.82-09
	2.56-07	1.54-07	1.21-07	2.37-97	2.69-07	1.20-08	1.72-08	2.98-09
	3.11-08	3.72-08	3.01-08	5.26-08	2.96-08	4.61-09	1.07-08	9.63-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	3.13-08	0.	0.	1.48-09	1.14-10
4.00 01	0.	0.	0.	0.	0.	0.	2.14-08	6.41-10
6.00 01	0.	0.	0.	0.	7.99-09	7.42-11	7.18-10	4.81-10
8.00 01	0.	0.	0.	1.84-08	0.	7.54-09	2.45-09	4.88-10
9.00 01	0.	0.	0.	0.	2.93-09	2.38-09	8.96-09	5.27-09
1.00 02	0.	0.	0.	0.	2.92-13	1.30-09	1.43-09	1.67-09
1.20 02	0.	0.	0.	4.24-11	1.63-09	4.15-09	7.87-10	1.77-09
1.40 02	0.	0.	0.	2.03-10	2.01-08	4.87-09	1.54-08	1.47-09
1.60 02	0.	0.	0.	1.23-11	8.63-09	2.22-09	5.35-10	2.67-09
1.80 02	0.	0.	0.	1.43-11	6.00-09	7.90-10	8.40-10	1.06-09
	0.	0.	0.	7.97-09	1.04-08	6.20-09	1.11-08	3.11-09
	0.	0.	0.	6.30-09	5.64-09	1.90-09	5.17-09	8.35-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.64-08	9.94-10	3.62-10
4.00 01	0.	0.	0.	0.	0.	1.15-10	8.31-09	1.60-10
6.00 01	0.	0.	0.	0.	0.	2.95-09	7.61-09	4.13-10
8.00 01	0.	0.	0.	0.	1.77-13	2.63-09	7.92-10	1.18-09
9.00 01	0.	0.	0.	0.	0.	5.67-10	1.18-09	4.76-10
1.00 02	0.	0.	0.	0.	0.	5.91-10	8.36-09	7.30-10
1.20 02	0.	0.	1.56-12	9.32-13	3.85-11	2.92-09	9.68-10	9.21-10
1.40 02	0.	0.	1.32-11	0.	5.85-10	3.35-09	1.22-09	1.20-09
1.60 02	0.	0.	1.65-11	2.43-10	2.40-09	1.72-08	1.81-09	1.17-09
1.80 02	0.	0.	1.24-10	6.61-11	5.29-09	7.74-10	1.03-09	1.16-09
	0.	0.	1.44-11	4.65-11	9.05-10	7.73-09	6.46-09	1.65-09
	0.	0.	7.18-12	3.86-11	2.78-10	2.23-09	2.10-09	3.40-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.08-09	2.15-10
4.00 01	0.	0.	0.	0.	0.	0.	6.62-09	9.70-10
6.00 01	0.	0.	0.	0.	6.14-09	5.62-10	3.84-09	2.68-10
8.00 01	0.	0.	0.	0.	0.	1.00-09	1.30-09	3.41-09
9.00 01	0.	0.	0.	0.	1.93-11	3.63-12	1.93-09	1.94-10
1.00 02	0.	0.	0.	0.	0.	1.28-09	3.39-09	1.04-09
1.20 02	0.	0.	0.	1.22-10	6.74-12	7.73-09	7.19-10	4.65-10
1.40 02	0.	0.	0.	9.07-14	2.27-10	2.13-09	1.17-09	5.95-10
1.60 02	0.	0.	0.	4.57-09	1.93-09	3.48-09	7.16-09	8.12-10
1.80 02	0.	0.	3.20-11	4.31-12	2.00-09	4.09-10	9.50-10	5.20-10
	0.	0.	1.93-12	8.34-10	2.15-09	4.42-09	5.49-09	2.06-09
	0.	0.	1.93-12	7.88-10	1.65-09	1.21-09	1.52-09	5.77-10

110454317735 104212615125

AIR SCATTERING 4.36 02 ENERGY 6.00-01 ANGLE 1.50 01 DIST. 6.10 02
5.70 01 1.73 03 0. 0. 5.69 04 5.00 01 1.80 03

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	7.57-07
0.	0.	0.	0.	0.	0.	0.	1.59-07
0.	0.	0.	0.	0.	0.	0.	6.20-08
0.	0.	0.	0.	0.	0.	0.	3.24-08
0.	0.	0.	0.	0.	0.	0.	2.94-08
0.	0.	0.	0.	0.	0.	0.	3.08-08
0.	0.	0.	0.	0.	0.	0.	2.79-08
0.	0.	0.	0.	0.	0.	0.	3.44-08
0.	0.	0.	0.	0.	0.	0.	4.81-08
0.	0.	0.	0.	0.	0.	0.	1.45-08
0.	0.	0.	0.	0.	0.	0.	1.38-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
4.95-10	1.43-09	4.24-10	1.99-09	2.01-14	1.14-18	1.39-25	4.88-07	6.31-08
5.36-10	4.95-09	3.12-10	2.30-10	2.73-11	1.76-18	6.50-30	1.03-07	2.26-08
2.01-10	7.28-09	7.45-10	1.67-12	1.60-14	5.92-19	1.09-24	3.98-08	1.14-08
7.49-10	9.38-10	3.39-10	1.50-11	7.01-13	2.97-16	8.17-25	2.09-08	6.87-09
4.85-10	3.54-10	2.43-10	1.15-11	2.75-14	7.78-16	1.25-23	3.12-08	1.35-08
6.18-10	5.57-10	7.52-11	1.68-11	2.99-13	6.09-16	4.89-33	1.99-08	8.00-09
7.86-10	9.10-10	1.51-10	2.40-11	3.53-14	2.53-15	8.74-25	1.90-08	4.80-09
7.79-10	4.46-10	1.10-09	3.12-11	1.56-12	1.59-18	1.86-25	2.27-08	4.15-09
6.87-10	1.22-10	1.04-09	1.06-11	1.26-12	1.26-17	6.23-25	3.20-08	2.91-09
2.23-09	3.82-10	1.43-10	1.45-11	1.88-12	8.33-18	1.34-30	1.14-08	6.83-10
1.32-09	3.80-09	9.74-10	1.89-10	5.79-12	1.17-15	3.19-24		
2.12-10	2.71-09	3.29-10	1.56-10	4.74-12	9.67-16	2.22-24	9.21-08	7.45-09

PHI 45 TO 90 DEGREES

5.63-11	3.20-10	1.68-10	9.21-13	2.23-17	1.50-18	1.14-33	1.62-09	1.57-09
5.85-10	1.16-10	1.27-10	2.75-11	8.55-12	2.35-17	4.05-28	6.71-10	5.72-10
3.46-10	8.97-10	4.75-10	3.39-11	1.88-13	2.15-17	5.95-26	4.54-10	4.00-10
6.48-10	3.77-10	2.92-10	4.98-11	1.45-12	1.20-17	1.57-22	1.25-09	9.35-10
2.70-09	4.04-10	5.41-11	2.27-11	2.96-14	6.06-16	1.07-26	6.51-10	3.00-10
2.43-09	1.83-09	1.13-09	4.07-11	1.95-13	2.73-18	9.74-29	1.93-10	5.75-11
3.54-10	9.32-10	1.83-10	2.62-11	1.94-13	6.70-17	9.00-24	2.85-10	9.26-11
5.34-09	3.61-10	1.14-09	4.40-11	8.06-14	1.38-18	4.18-27	1.77-09	1.39-09
1.20-09	2.50-10	2.38-10	1.24-11	3.70-14	2.05-18	2.93-28	5.97-10	1.82-10
2.02-09	4.35-10	1.07-09	9.26-12	1.40-12	7.46-15	9.40-30	4.26-10	1.04-10
3.17-09	1.26-09	9.29-10	6.41-11	2.22-12	5.92-16	5.42-23		
1.33-09	3.29-10	3.75-10	1.95-11	1.54-12	4.61-16	5.12-23	1.58-09	5.14-10

PHI 90 TO 135 DEGREES

6.22-10	1.92-10	1.20-10	4.06-12	8.98-14	1.84-21	5.82-28	5.45-10	4.92-10
5.13-09	3.22-10	5.44-11	7.52-12	1.08-13	1.29-17	2.10-23	3.63-10	1.35-10
1.61-09	1.42-10	2.73-10	1.57-10	3.15-12	4.21-17	4.38-29	3.63-10	2.08-10
1.19-09	1.59-09	1.56-10	1.89-11	1.51-12	6.99-17	5.27-23	1.68-10	6.74-11
3.03-10	5.28-10	2.06-10	1.16-10	6.27-15	3.10-18	1.13-23	7.60-11	2.20-11
1.80-09	3.24-10	8.92-10	6.87-11	3.36-12	3.23-19	1.66-24	3.32-10	1.85-10
7.66-10	2.29-10	1.48-10	7.10-11	6.96-13	8.09-16	4.48-26	1.57-10	3.79-11
1.51-09	4.85-10	3.26-10	7.83-11	7.52-12	7.06-15	2.51-25	2.30-10	7.03-11
1.09-09	2.94-10	1.69-10	7.54-10	3.50-13	5.30-19	2.12-26	7.59-10	2.79-10
1.15-09	7.42-10	3.41-10	1.29-10	2.89-12	2.93-15	3.12-25	3.92-10	1.44-10
3.02-09	1.07-09	5.16-10	2.63-10	4.40-12	2.36-15	2.32-23		
9.05-10	3.48-10	1.67-10	1.34-10	1.99-12	1.83-15	1.87-23	5.86-10	9.80-11

PHI 135 TO 180 DEGREES

1.19-10	4.81-10	2.25-10	5.43-09	7.95-13	6.92-19	7.57-23	1.14-10	6.98-11
1.48-10	1.53-10	1.07-09	2.51-11	1.67-12	9.28-17	1.44-22	2.33-10	1.10-10
9.74-11	7.18-10	3.76-10	9.82-11	8.19-13	1.23-15	2.04-24	4.58-10	3.11-10
4.42-10	2.84-10	2.71-10	8.04-11	2.43-12	1.61-15	2.43-21	1.52-10	4.04-11
9.89-10	3.29-10	5.32-10	2.17-11	9.53-13	1.60-14	1.37-26	9.12-11	3.00-11
1.54-09	6.32-10	2.77-10	9.74-12	2.18-12	1.53-16	1.26-24	2.01-10	7.38-11
5.48-10	2.01-09	1.63-10	3.23-10	2.15-13	2.15-16	6.51-25	3.04-10	1.02-10
3.28-10	6.88-10	1.62-10	1.65-11	1.06-13	9.50-17	4.25-28	1.37-10	4.81-11
2.29-09	5.39-10	1.46-09	7.31-11	8.85-13	1.74-19	7.34-28	7.27-10	3.11-10
2.98-09	1.01-09	4.61-10	5.80-11	1.79-13	3.21-18	1.41-21	2.29-10	7.00-11
1.48-09	1.50-09	9.07-10	5.16-10	2.16-12	3.77-15	9.08-22		
3.58-10	5.32-10	2.93-10	3.45-10	1.07-12	3.03-15	7.62-22	5.46-10	1.14-10
							1.49-07	1.19-08

AIR SCATTERING 4.37 02 ENERGY 6.00-01 ANGLE 3.00 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	1.37-06	6.23-07	0.	0.	0.	0.	0.	0.
4.00 01	0.	4.73-07	6.10-08	0.	0.	0.	0.	0.
6.00 01	0.	0.	2.42-07	0.	0.	0.	0.	0.
8.00 01	0.	0.	8.53-08	1.37-07	0.	0.	0.	0.
9.00 01	0.	0.	0.	2.71-07	0.	0.	0.	0.
1.00 02	0.	0.	0.	2.60-07	0.	0.	0.	0.
1.20 02	0.	0.	0.	6.96-08	2.11-07	0.	0.	0.
1.40 02	0.	0.	0.	0.	3.08-07	0.	0.	0.
1.60 02	0.	0.	0.	0.	1.08-07	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	8.27-08	1.20-07	1.03-07	1.60-07	1.70-07	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	8.73-07	3.97-07	0.	0.	0.	0.	1.32-08	9.70-10
4.00 01	0.	3.01-07	3.88-08	0.	1.04-08	0.	4.12-09	7.52-10
6.00 01	0.	0.	1.91-07	0.	0.	2.56-09	6.39-09	1.76-09
8.00 01	0.	0.	5.43-08	8.72-08	4.86-09	8.87-09	5.84-10	3.29-10
9.00 01	0.	0.	0.	1.73-07	1.41-08	5.04-10	1.20-09	1.04-09
1.00 02	0.	0.	0.	1.66-07	5.50-10	6.10-09	4.80-10	1.07-09
1.20 02	0.	0.	0.	4.43-08	1.54-07	3.21-09	1.76-09	1.37-09
1.40 02	0.	0.	0.	8.37-12	2.38-07	1.19-09	1.52-09	4.21-09
1.60 02	0.	0.	7.49-12	1.02-11	1.03-07	3.41-09	6.30-09	1.04-09
1.80 02	0.	0.	9.60-12	2.35-10	1.09-08	7.30-10	2.55-09	1.82-09
	5.26-08	7.62-08	7.53-08	1.02-07	1.38-07	6.72-09	5.92-09	2.99-09
	8.48-09	1.33-08	1.63-08	1.60-08	1.18-08	1.97-09	1.35-09	7.72-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.12-08	1.42-10
4.00 01	0.	0.	0.	0.	6.35-09	0.	1.55-09	3.24-09
6.00 01	0.	0.	0.	0.	0.	4.25-08	5.60-09	6.34-10
8.00 01	0.	0.	0.	0.	0.	1.36-09	2.46-09	5.88-10
9.00 01	0.	0.	0.	0.	8.54-11	5.62-09	9.30-10	7.74-10
1.00 02	0.	0.	0.	0.	5.85-10	1.31-09	5.00-10	1.38-09
1.20 02	0.	0.	0.	0.	1.77-09	9.25-10	9.28-10	3.16-09
1.40 02	0.	0.	0.	0.	4.74-09	2.45-09	2.88-09	1.87-09
1.60 02	0.	0.	0.	7.25-12	5.41-09	2.21-09	8.24-10	1.25-09
1.80 02	0.	0.	0.	3.41-13	1.04-09	2.41-10	6.05-10	6.50-10
	0.	0.	0.	1.28-12	4.06-09	1.43-08	4.73-09	3.09-09
	0.	0.	0.	1.25-12	1.52-09	1.11-08	1.31-09	7.18-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.12-09	1.26-09
4.00 01	0.	0.	0.	0.	0.	8.77-09	3.71-10	1.59-10
6.00 01	0.	0.	0.	0.	0.	1.85-09	6.90-09	3.04-10
8.00 01	0.	0.	0.	0.	0.	1.65-10	1.03-09	7.50-10
9.00 01	0.	0.	0.	0.	0.	2.11-10	9.44-09	1.68-09
1.00 02	0.	0.	0.	0.	1.13-13	8.04-09	2.53-10	1.35-09
1.20 02	0.	0.	0.	1.69-12	3.06-10	2.32-09	9.34-10	8.70-10
1.40 02	0.	0.	1.04-11	2.96-10	4.04-11	2.54-09	1.11-09	9.13-10
1.60 02	0.	0.	0.	6.18-13	1.23-10	4.92-09	5.47-10	8.89-10
1.80 02	0.	0.	0.	0.	3.41-09	2.75-09	1.57-09	4.05-09
	0.	0.	2.76-12	7.95-11	3.38-10	5.96-09	4.84-09	1.88-09
	0.	0.	2.76-12	7.76-11	1.59-10	2.25-09	1.73-09	4.19-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	1.48-08	0.	1.45-08	2.01-10
4.00 01	0.	0.	0.	0.	7.26-09	0.	3.72-09	5.90-10
6.00 01	0.	0.	0.	0.	0.	0.	1.64-09	5.92-09
8.00 01	0.	0.	0.	0.	1.96-09	1.63-10	3.91-10	1.49-10
9.00 01	0.	0.	0.	0.	0.	1.03-09	6.13-10	9.32-10
1.00 02	0.	0.	0.	0.	0.	1.54-11	8.27-10	3.75-10
1.20 02	0.	0.	0.	0.	0.	1.10-09	6.10-10	3.02-09
1.40 02	0.	0.	0.	0.	6.62-11	2.44-09	1.87-09	4.00-09
1.60 02	0.	0.	0.	1.59-13	2.19-10	7.92-10	4.71-10	1.38-09
1.80 02	0.	0.	0.	1.23-13	2.51-09	1.24-09	5.26-10	7.65-10
	0.	0.	0.	3.51-14	3.00-09	1.45-09	3.14-09	4.30-09
	0.	0.	0.	2.82-14	1.67-09	3.88-10	1.08-09	1.81-09

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AIR SCATTERING 4.37 02 ENERGY 6.00-01 ANGLE 3.00 01 DIST. 6.10 02
6.10 01 1.73 03 0. 0. 5.67 04 5.00 01 1.80 03

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	2.68-07
0.	0.	0.	0.	0.	0.	0.	5.34-08
0.	0.	0.	0.	0.	0.	0.	2.42-08
0.	0.	0.	0.	0.	0.	0.	1.54-08
0.	0.	0.	0.	0.	0.	0.	1.36-08
0.	0.	0.	0.	0.	0.	0.	1.30-08
0.	0.	0.	0.	0.	0.	0.	1.41-08
0.	0.	0.	0.	0.	0.	0.	1.54-08
0.	0.	0.	0.	0.	0.	0.	5.38-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							5.11-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
5.83-10	1.71-09	2.09-10	1.47-11	3.59-12	5.58-18	2.66-30	1.71-07	2.45-08
4.24-10	4.26-10	2.40-10	2.22-11	1.93-12	4.21-17	1.51-24	3.47-08	6.88-09
5.14-09	4.80-10	4.49-11	5.27-11	1.40-12	2.79-16	1.25-25	1.95-08	5.58-09
6.45-10	2.72-10	4.72-10	2.34-10	1.19-13	5.40-18	9.01-29	1.03-08	2.26-09
4.11-10	2.26-10	1.11-10	2.74-11	9.70-15	1.07-20	1.13-27	9.43-09	2.69-09
9.01-10	4.79-10	1.56-10	5.75-12	1.40-13	1.85-18	9.99-26	8.56-09	2.30-09
1.06-09	6.98-10	1.17-10	3.08-11	9.52-14	1.53-17	3.23-24	1.01-08	1.50-09
2.01-09	1.27-09	1.06-10	1.35-11	8.87-12	1.93-17	5.36-26	1.21-08	1.43-09
1.39-09	2.21-10	2.58-10	7.69-11	1.24-12	7.64-17	5.34-24	5.50-09	5.72-10
1.88-09	1.41-10	2.19-10	1.59-11	1.66-12	5.91-19	1.41-26	7.36-10	2.41-10
3.15-09	1.13-09	3.71-10	1.29-10	3.69-12	1.07-16	2.31-24		
1.31-09	2.94-10	9.86-11	7.36-11	2.20-12	5.87-17	1.40-24	3.56-08	2.61-09

PHI 45 TO 90 DEGREES

5.09-11	7.67-11	6.26-11	1.54-11	2.65-12	6.05-19	1.39-25	3.42-10	2.16-10
1.86-10	2.25-10	1.12-10	1.16-11	1.93-14	1.23-16	1.95-24	4.36-10	3.22-10
3.48-10	5.13-10	1.93-10	4.30-12	2.98-13	3.42-18	4.56-26	1.47-09	1.26-09
6.46-10	3.51-10	6.26-10	5.66-12	6.77-13	6.70-16	4.93-25	1.49-10	4.64-11
7.87-10	2.01-10	1.14-10	3.70-12	1.02-13	4.97-16	5.88-21	2.35-10	9.66-11
1.43-09	2.57-09	1.74-09	5.36-12	7.25-14	1.09-19	4.04-22	1.83-10	6.11-11
1.01-09	7.34-10	2.51-10	2.44-11	1.38-13	7.34-18	6.85-26	2.37-10	7.21-11
2.17-09	4.22-09	1.39-10	1.57-10	4.55-14	4.74-16	2.83-26	5.22-10	1.82-10
9.59-10	5.36-10	1.38-10	1.94-11	1.59-13	1.68-16	7.87-22	4.13-10	1.26-10
1.06-09	1.54-10	1.47-10	1.67-10	1.51-13	1.20-18	3.05-23	1.16-10	2.76-11
1.86-09	2.24-09	7.51-10	7.06-11	5.87-13	4.85-16	1.23-21		
3.78-10	9.60-10	3.93-10	3.47-11	2.31-13	2.48-16	1.10-21	9.04-10	3.46-10

PHI 90 TO 135 DEGREES

7.72-11	8.18-11	3.77-10	4.38-12	5.21-13	2.58-20	9.33-29	9.50-11	3.64-11
2.33-09	8.23-09	2.76-10	2.29-11	1.98-14	5.73-16	6.92-24	4.09-10	2.84-10
2.15-09	4.41-10	6.23-11	9.49-11	2.13-12	2.60-15	3.85-24	3.17-10	1.58-10
9.65-10	5.85-10	2.02-09	1.86-09	3.93-14	4.18-18	6.17-28	1.08-10	3.25-11
1.18-09	8.36-10	3.68-10	5.71-11	1.34-14	1.95-17	1.28-23	3.59-10	1.97-10
2.38-09	1.48-09	3.45-10	6.38-11	5.25-13	6.98-17	5.40-30	3.42-10	2.31-10
6.42-10	8.82-10	7.61-11	7.99-11	8.18-14	2.37-16	1.98-22	1.53-10	5.09-11
5.67-10	4.45-10	1.89-10	4.81-11	5.25-13	2.21-15	8.46-22	1.64-10	5.32-11
1.81-09	2.29-10	9.55-11	2.32-11	1.85-13	4.56-16	1.81-26	2.28-10	1.14-10
2.16-10	4.59-10	1.29-09	1.09-11	2.39-14	7.47-16	9.95-29	4.03-10	1.46-10
2.60-09	2.62-09	1.04-09	6.37-10	9.09-13	1.60-15	2.94-22		
6.72-10	1.25-09	5.27-10	5.42-10	4.36-13	8.34-16	2.34-22	4.76-10	9.32-11

PHI 135 TO 180 DEGREES

1.23-09	1.51-09	1.48-11	6.03-11	2.23-14	1.58-18	4.21-22	1.22-09	1.15-09
1.36-09	4.57-10	3.15-10	1.07-11	1.06-13	2.07-16	8.13-25	5.21-10	3.74-10
2.02-09	1.28-09	1.87-09	2.68-11	5.57-12	3.74-17	2.06-24	2.40-10	1.17-10
9.30-10	5.47-10	1.86-10	9.08-12	2.53-14	1.60-16	1.48-23	1.44-10	9.47-11
4.13-10	1.07-10	1.27-10	1.18-11	2.03-14	1.73-18	2.78-23	7.86-11	2.96-11
2.43-09	1.72-09	2.74-10	1.34-11	1.08-13	1.17-18	5.77-24	1.01-10	2.97-11
3.83-10	2.67-09	6.13-11	2.98-12	1.03-13	3.49-17	1.98-24	1.47-10	5.86-11
8.83-10	5.88-10	6.37-11	3.35-11	3.64-14	1.48-18	5.62-26	2.37-10	7.59-11
1.45-09	3.46-10	3.83-10	1.69-11	1.59-13	8.46-19	1.13-29	1.13-10	3.56-11
1.05-09	3.01-10	1.21-09	1.80-12	4.47-14	2.27-19	2.78-23	2.30-10	9.34-11
2.32-09	2.11-09	8.59-10	3.29-11	1.61-12	1.11-16	3.91-23		
5.45-10	8.87-10	4.72-10	1.12-11	1.36-12	6.47-17	2.71-23	4.50-10	1.13-10
							5.87-08	4.22-09

AIR SCATTERING 4.38 02 ENERGY 6.00-01 ANGLE 6.00 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	2.73-07	4.19-07	0.	0.	0.	0.	0.
4.00 01	0.	0.	1.81-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	6.43-09	1.95-07	0.	0.	0.	0.
8.00 01	0.	0.	0.	1.15-07	4.18-08	0.	0.	0.
9.00 01	0.	0.	0.	0.	1.40-07	0.	0.	0.
1.00 02	0.	0.	0.	0.	1.30-07	0.	0.	0.
1.20 02	0.	0.	0.	0.	7.51-08	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0	1.65-08	5.84-08	8.93-08	8.50-08	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	1.74-07	2.67-07	0.	0.	0.	1.05-09	3.73-10
4.00 01	0.	0.	1.15-07	0.	0.	7.12-09	3.95-09	2.05-09
6.00 01	0.	0.	4.10-09	1.32-07	3.07-09	2.67-09	3.96-09	1.91-09
8.00 01	0.	0.	0.	7.30-08	3.59-08	6.13-09	8.66-10	1.55-09
9.00 01	0.	0.	0.	5.37-09	1.01-07	1.03-08	1.18-09	8.06-10
1.00 02	0.	0.	0.	0.	1.05-07	2.62-09	1.40-09	7.70-10
1.20 02	0.	0.	0.	1.60-13	6.26-08	1.92-09	1.47-09	1.36-09
1.40 02	0.	0.	0.	5.80-11	4.11-09	2.66-09	1.46-09	1.07-08
1.60 02	0.	0.	7.00-14	1.72-10	2.61-09	1.18-09	1.22-09	1.26-09
1.80 02	0.	0.	0.	0.	2.13-11	1.78-09	2.60-10	1.72-10
	0.	1.05-08	3.72-08	5.99-08	7.03-08	7.84-09	3.63-09	5.17-09
	0.	2.79-09	4.82-09	7.47-09	4.61-09	1.79-09	9.37-10	1.76-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	1.76-08	0.	1.75-11	7.03-10	4.19-10
4.00 01	0.	0.	0.	0.	0.	1.76-10	3.47-09	2.52-09
6.00 01	0.	0.	0.	0.	3.12-09	1.97-09	2.48-09	4.29-10
8.00 01	0.	0.	0.	0.	0.	2.18-09	8.32-10	6.87-10
9.00 01	0.	0.	0.	1.13-09	3.27-09	2.73-09	3.59-10	3.33-10
1.00 02	0.	0.	0.	0.	7.81-11	4.55-09	2.84-09	4.19-10
1.20 02	0.	0.	4.52-12	2.14-10	1.25-09	2.67-09	1.39-09	9.17-10
1.40 02	0.	0.	0.	4.49-10	1.93-09	2.07-09	1.72-09	1.74-09
1.60 02	0.	0.	0.	0.	1.76-10	2.16-09	8.55-10	1.97-09
1.80 02	0.	0.	0.	0.	2.98-10	2.71-10	3.95-10	5.59-09
	0.	0.	1.48-12	1.44-09	2.38-09	4.34-09	3.21-09	2.37-09
	0.	0.	1.48-12	1.09-09	1.07-09	7.25-10	7.62-10	4.65-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	5.44-12	1.99-09	1.48-10
4.00 01	0.	0.	0.	0.	0.	2.95-12	8.49-09	4.84-10
6.00 01	0.	0.	0.	0.	2.65-12	2.40-11	3.98-09	1.49-09
8.00 01	0.	0.	0.	0.	0.	6.10-10	1.33-09	4.26-10
9.00 01	0.	0.	0.	0.	0.	9.28-10	4.44-10	2.12-10
1.00 02	0.	0.	0.	0.	0.	5.17-11	9.69-09	2.63-10
1.20 02	0.	0.	0.	1.09-11	1.01-11	1.69-09	1.63-09	4.97-10
1.40 02	0.	0.	0.	1.21-09	1.14-10	7.11-10	9.96-10	9.94-10
1.60 02	0.	0.	0.	0.	4.10-11	2.47-09	2.75-10	1.22-09
1.80 02	0.	0.	0.	0.	0.	3.85-10	1.06-09	5.49-10
	0.	0.	0.	3.25-10	4.14-11	1.57-09	5.75-09	1.38-09
	0.	0.	0.	3.21-10	2.28-11	6.12-10	1.76-09	3.12-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	8.95-12	1.78-09	1.62-10
4.00 01	0.	0.	0.	0.	0.	0.	3.77-09	2.81-09
6.00 01	0.	0.	0.	0.	0.	0.	4.76-09	1.05-09
8.00 01	0.	0.	0.	0.	0.	0.	1.90-09	2.42-10
9.00 01	0.	0.	0.	0.	0.	6.43-12	1.14-09	6.00-10
1.00 02	0.	0.	0.	0.	0.	8.24-12	2.66-09	1.22-09
1.20 02	0.	0.	0.	0.	0.	3.16-11	1.56-08	7.52-10
1.40 02	0.	0.	0.	0.	0.	5.00-10	3.94-09	2.60-10
1.60 02	0.	0.	0.	0.	4.42-12	5.37-09	2.80-10	3.95-10
1.80 02	0.	0.	0.	0.	0.	1.27-09	9.30-10	4.84-10
	0.	0.	0.	0.	7.68-13	1.16-09	9.54-09	1.58-09
	0.	0.	0.	0.	6.01-13	6.22-10	3.66-09	5.07-10

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AIR SCATTERING 4.38 02 ENERGY 6.00-01 ANGLE 6.80 01 DIST. 6.10 02
6.50 01 1.72 03 0. 0. 5.64 04 5.00 01 1.80 03

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	6.92-08
0.	0.	0.	0.	0.	0.	0.	1.81-08
0.	0.	0.	0.	0.	0.	0.	1.04-08
0.	0.	0.	0.	0.	0.	0.	7.83-09
0.	0.	0.	0.	0.	0.	0.	6.99-09
0.	0.	0.	0.	0.	0.	0.	6.51-09
0.	0.	0.	0.	0.	0.	0.	3.76-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							1.62-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
3.21-10	1.19-10	3.70-10	4.02-12	1.46-13	7.49-18	5.54-26	4.41-08	7.18-09
7.83-10	2.16-10	3.12-10	1.13-11	5.82-13	7.01-17	8.89-27	1.19-08	2.00-09
8.16-10	3.67-10	2.85-10	2.71-11	3.15-12	5.17-15	2.22-23	7.42-09	1.25-09
8.69-10	3.35-10	2.13-10	2.45-11	4.23-13	9.07-16	2.64-25	5.71-09	7.46-10
1.05-09	5.55-10	7.47-11	9.35-11	5.39-13	3.56-17	8.36-24	5.72-09	1.03-09
2.02-09	4.44-10	1.19-10	1.32-10	1.95-12	5.34-17	3.59-24	5.43-09	6.59-10
8.91-10	4.37-10	2.18-10	5.53-11	5.98-13	1.92-17	8.08-26	3.29-09	1.89-10
6.60-10	4.28-10	3.79-10	6.63-10	1.97-12	3.51-18	1.36-27	5.71-10	1.41-10
9.03-10	4.91-10	1.72-10	6.09-11	3.04-12	1.65-16	6.00-25	2.61-10	5.76-11
1.35-10	1.90-09	9.86-11	6.67-11	1.29-12	2.52-16	6.34-28	8.88-11	4.06-11
1.82-09	8.82-10	4.63-10	2.66-10	2.84-12	1.75-15	8.21-24		
2.54-10	1.50-10	1.04-10	1.74-10	1.07-12	1.17-15	5.82-24	1.18-08	7.01-10

PHI 45 TO 90 DEGREES

2.41-10	5.68-11	1.81-10	2.02-11	4.30-13	6.96-16	1.25-27	9.15-10	8.78-10
3.68-09	1.16-09	2.75-10	9.27-12	3.79-14	1.82-18	1.53-28	2.48-10	7.85-11
5.51-10	8.27-10	7.07-10	1.15-10	1.00-13	1.48-17	1.47-27	3.25-10	1.62-10
8.31-10	1.75-10	1.41-10	3.51-11	8.76-13	4.36-18	7.04-30	1.24-10	2.73-11
1.42-09	3.71-10	3.63-10	2.78-11	3.82-13	1.98-18	6.25-23	3.55-10	1.77-10
2.63-09	1.45-09	5.77-10	4.86-11	2.55-13	2.62-17	5.13-24	3.07-10	8.99-11
2.08-09	2.97-10	1.61-10	7.24-11	8.12-13	1.24-16	1.26-26	2.60-10	5.70-11
1.06-09	3.06-10	1.46-10	5.71-11	2.83-13	2.70-17	4.81-23	2.93-10	8.75-11
5.15-10	1.79-10	2.36-10	4.18-11	6.02-13	1.39-15	4.10-23	1.53-10	4.68-11
2.36-10	1.03-10	3.22-10	8.40-12	6.64-14	1.42-14	4.19-28	1.56-10	7.56-11
2.84-09	1.01-09	6.08-10	1.05-10	9.05-13	1.20-15	3.18-23		
7.92-10	2.72-10	1.69-10	3.60-11	3.72-13	7.98-16	1.74-23	5.39-10	8.81-11

PHI 90 TO 135 DEGREES

5.12-10	2.11-10	2.28-10	3.83-11	9.09-11	2.31-15	1.04-28	7.83-11	2.84-11
5.65-10	3.43-10	4.81-11	7.99-12	8.62-14	2.90-18	2.23-27	2.80-10	9.65-11
8.80-10	6.21-10	1.80-10	9.09-12	2.91-14	2.23-17	4.84-26	1.76-10	6.10-11
7.76-10	2.29-10	2.56-10	6.39-12	3.36-12	5.54-18	1.30-23	8.72-11	2.02-11
3.11-10	7.86-11	2.53-10	3.60-11	9.26-14	3.86-15	2.80-25	5.52-11	2.78-11
1.60-10	2.99-10	2.49-10	8.34-12	3.04-13	7.93-20	2.45-29	3.06-10	2.66-10
5.18-10	5.91-10	3.22-10	1.04-11	2.58-13	9.41-18	1.00-25	1.30-10	5.21-11
5.05-10	2.28-10	1.67-10	2.42-11	1.68-13	2.79-17	1.81-25	1.51-10	6.59-11
7.37-09	1.42-09	2.61-09	3.27-11	2.96-14	2.35-18	8.94-23	2.97-10	1.26-10
1.95-10	1.50-10	2.12-11	1.12-11	3.31-13	2.73-15	1.48-27	6.01-11	2.45-11
2.29-09	8.88-10	8.45-10	3.21-11	6.82-12	9.93-16	1.99-23		
9.99-10	2.34-10	4.19-10	8.02-12	5.28-12	7.04-16	1.59-23	3.29-10	6.99-11

PHI 135 TO 180 DEGREES

2.22-10	5.38-11	1.21-09	8.51-11	1.17-14	2.75-18	1.18-27	7.46-11	3.12-11
8.43-11	1.73-10	2.17-10	3.54-12	2.31-14	6.57-18	3.48-28	1.75-10	7.02-11
2.54-10	4.40-10	2.18-10	2.20-11	3.49-13	4.92-20	7.79-27	1.76-10	8.72-11
8.17-10	2.36-10	2.48-10	1.37-11	2.43-13	1.10-16	2.30-25	8.32-11	2.48-11
5.59-10	3.06-10	2.46-10	5.14-12	9.64-15	2.24-17	1.31-22	6.31-11	1.81-11
1.23-09	1.15-09	8.52-11	4.70-11	1.31-13	1.11-16	3.35-29	1.42-10	4.28-11
6.46-10	2.05-10	1.22-10	5.73-12	3.47-13	4.33-15	6.46-26	4.99-10	3.17-10
3.46-10	1.62-10	2.45-10	6.46-11	1.19-12	2.36-18	7.46-24	1.50-10	9.56-11
7.46-11	5.48-10	5.55-10	1.16-10	6.21-13	9.14-17	4.99-24	1.91-10	1.06-10
1.59-08	7.95-10	3.92-11	1.82-11	2.75-14	4.24-16	2.00-26	4.02-10	3.12-10
1.95-09	7.33-10	5.11-10	6.53-11	7.40-13	1.51-15	2.57-23		
9.76-10	2.22-10	1.42-10	2.44-11	3.80-13	1.41-15	2.29-23	4.04-10	1.22-10
							2.05-08	1.17-09

AIR SCATTERING 4.39 02 ENERGY 6.00-01 ANGLE 9.00 01 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	0.	2.33-07	3.56-07	0.	0.	0.	0.
4.00 01	0.	0.	0.	2.69-07	0.	0.	0.	0.
6.00 01	0.	0.	0.	3.78-08	1.24-07	0.	0.	0.
8.00 01	0.	0.	0.	0.	1.04-07	0.	0.	0.
9.00 01	0.	0.	0.	0.	2.74-08	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	1.40-08	7.82-08	7.18-08	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	0.	1.48-07	2.26-07	1.24-09	1.33-08	1.22-09	7.92-09
4.00 01	0.	0.	0.	1.91-07	8.77-09	7.84-09	1.40-09	8.24-10
6.00 01	0.	0.	0.	2.41-08	9.05-08	3.43-09	1.42-09	3.45-09
8.00 01	0.	0.	0.	6.95-09	8.08-08	3.36-09	8.91-09	3.13-09
9.00 01	0.	0.	0.	0.	2.68-08	1.65-09	1.17-09	1.59-09
1.00 02	0.	0.	0.	5.55-17	8.66-09	9.90-10	4.78-09	4.24-09
1.20 02	0.	0.	0.	0.	2.76-09	7.37-10	2.25-09	2.62-09
1.40 02	0.	0.	0.	0.	2.69-10	1.34-09	1.86-09	1.53-09
1.60 02	0.	0.	0.	0.	2.18-12	4.63-09	7.46-10	1.28-09
1.80 02	0.	0.	0.	0.	0.	2.49-09	4.28-09	1.16-10
	0.	0.	8.93-09	5.55-08	5.92-08	6.18-09	6.25-09	5.06-09
	0.	0.	1.94-09	6.42-09	3.55-09	9.31-10	2.60-09	1.18-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	8.05-10	5.81-10	1.11-10
4.00 01	0.	0.	0.	0.	1.11-13	9.90-09	8.29-10	5.58-10
6.00 01	0.	0.	0.	0.	1.13-10	4.89-09	1.95-09	2.64-09
8.00 01	0.	0.	0.	0.	4.92-11	1.75-09	6.80-10	8.11-10
9.00 01	0.	0.	0.	0.	2.20-09	1.00-09	2.77-10	2.27-09
1.00 02	0.	0.	0.	5.41-11	1.62-08	5.39-10	2.21-09	6.10-09
1.20 02	0.	0.	0.	0.	1.30-11	1.24-09	1.45-09	6.50-10
1.40 02	0.	0.	0.	0.	2.04-10	6.28-10	9.28-10	6.86-10
1.60 02	0.	0.	0.	0.	0.	1.87-08	1.52-08	8.17-10
1.80 02	0.	0.	0.	0.	0.	3.61-10	1.96-09	1.61-10
	0.	0.	0.	9.39-12	3.29-09	7.74-09	4.83-09	3.07-09
	0.	0.	0.	9.39-12	2.81-09	3.26-09	2.60-09	8.70-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	6.64-09	1.62-09	8.77-10
4.00 01	0.	0.	0.	0.	0.	8.77-11	1.19-09	6.39-10
6.00 01	0.	0.	0.	0.	0.	1.06-09	1.16-09	1.73-09
8.00 01	0.	0.	0.	0.	4.31-14	1.00-09	1.71-09	5.10-10
9.00 01	0.	0.	0.	0.	0.	4.47-10	4.00-10	3.39-10
1.00 02	0.	0.	0.	0.	0.	2.14-12	5.17-09	1.26-09
1.20 02	0.	0.	0.	0.	2.71-10	1.90-09	2.39-09	3.99-10
1.40 02	0.	0.	0.	0.	9.09-14	1.17-08	2.49-09	4.93-10
1.60 02	0.	0.	0.	0.	0.	1.07-10	7.19-10	5.28-10
1.80 02	0.	0.	0.	0.	0.	1.00-10	3.49-10	1.21-09
	0.	0.	0.	0.	8.86-11	4.87-09	3.72-09	1.50-09
	0.	0.	0.	0.	8.85-11	3.14-09	8.13-10	3.81-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.75-11	8.41-10	3.74-11
4.00 01	0.	0.	0.	0.	0.	9.25-13	5.48-10	8.16-10
6.00 01	0.	0.	0.	0.	0.	0.	8.31-09	4.90-10
8.00 01	0.	0.	0.	0.	0.	3.05-09	3.74-09	2.14-09
9.00 01	0.	0.	0.	0.	0.	2.79-08	1.66-09	7.45-10
1.00 02	0.	0.	0.	0.	0.	3.38-13	5.12-10	3.61-09
1.20 02	0.	0.	0.	0.	0.	1.27-10	4.54-10	2.41-10
1.40 02	0.	0.	0.	0.	0.	1.20-10	5.26-10	7.47-10
1.60 02	0.	0.	0.	0.	7.06-10	1.42-10	5.01-09	2.82-10
1.80 02	0.	0.	0.	0.	0.	3.12-10	5.25-10	8.16-10
	0.	0.	0.	0.	1.23-10	5.95-09	5.15-09	2.10-09
	0.	0.	0.	0.	1.23-10	5.10-09	1.99-09	7.83-10

232153472321 370365510731

AIR SCATTERING 4.39 02 ENERGY 6.00-01 ANGLE 9.00 01 DIST. 6.10 02
5.50 01 1.72 03 0. 0. 5.63 04 5.00 01 1.80 03

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	4.10-08
0.	0.	0.	0.	0.	0.	0.	1.35-08
0.	0.	0.	0.	0.	0.	0.	8.10-09
0.	0.	0.	0.	0.	0.	0.	5.21-09
0.	0.	0.	0.	0.	0.	0.	1.37-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							8.91-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
7.17-10	1.75-10	2.11-09	5.70-12	2.22-13	1.90-18	3.70-23	2.68-08	4.20-09
4.93-10	1.84-10	3.71-10	6.66-11	1.48-12	1.93-16	1.22-23	1.03-08	1.45-09
2.49-09	2.17-10	2.41-10	1.74-11	9.87-13	8.59-16	9.60-24	5.99-09	6.23-10
1.16-09	1.32-09	3.29-10	4.39-11	5.02-13	2.65-16	9.55-25	4.86-09	4.83-10
1.10-09	4.46-10	7.38-10	2.60-11	6.64-13	1.06-18	2.63-24	1.49-09	1.31-10
3.97-10	4.91-10	3.31-10	2.91-11	1.89-13	3.91-16	6.37-26	7.07-10	2.54-10
2.50-09	2.97-09	8.58-10	6.69-12	2.56-12	1.89-14	9.05-26	3.68-10	6.59-11
7.67-10	1.80-09	2.95-10	1.17-10	1.01-12	3.28-15	9.26-22	1.77-10	4.76-11
9.85-10	1.66-10	5.09-10	4.13-11	3.40-14	1.18-16	1.16-28	2.14-10	6.53-11
3.78-09	7.29-11	5.60-11	1.31-10	2.44-14	6.86-17	8.71-33	2.83-10	1.42-10
2.85-09	2.17-09	9.99-10	8.87-11	1.95-12	7.49-15	2.54-22		
6.13-10	8.03-10	2.86-10	2.74-11	9.87-13	6.22-15	1.91-22	7.19-09	4.57-10

PHI 45 TO 90 DEGREES

1.51-10	3.86-10	1.90-10	4.42-11	2.31-14	3.84-17	9.87-27	5.29-11	1.77-11
8.73-10	3.83-10	1.10-10	5.08-11	1.39-12	4.39-17	1.32-26	3.56-10	1.37-10
4.68-10	6.40-10	5.71-10	2.90-10	2.54-13	5.55-16	5.30-26	2.87-10	7.17-11
7.77-10	2.01-10	8.61-10	2.91-11	3.81-13	3.62-18	2.66-22	1.18-10	2.78-11
3.20-09	3.62-10	3.20-10	4.44-11	6.42-11	4.84-16	2.77-25	2.65-10	1.21-10
3.20-10	4.38-10	1.98-10	8.15-10	1.96-12	8.94-16	1.02-26	1.03-09	8.06-10
7.85-10	4.71-10	5.56-10	7.20-10	1.62-13	6.20-16	1.16-20	1.25-10	2.62-11
1.88-10	1.37-09	6.32-10	8.99-11	2.72-12	5.78-16	5.58-27	9.50-11	2.22-11
3.31-10	1.08-09	1.35-10	2.92-11	1.59-13	8.54-18	3.03-20	1.05-09	9.81-10
4.89-10	8.86-10	2.38-11	3.92-12	5.22-14	3.38-15	1.96-27	9.16-11	6.05-11
1.54-09	1.22-09	9.28-10	5.12-10	1.27-11	9.59-16	9.14-21		
4.15-10	3.48-10	3.07-10	2.64-10	1.10-11	4.11-16	6.53-21	6.60-10	2.24-10

PHI 90 TO 135 DEGREES

2.23-09	3.38-10	1.22-10	7.76-12	1.01-14	1.28-19	1.52-25	3.15-10	1.41-10
5.21-10	4.92-10	4.42-10	8.38-10	7.55-14	3.32-17	2.01-25	7.67-11	1.59-11
5.26-10	3.50-10	2.34-09	5.49-11	4.78-13	4.37-16	4.71-21	1.39-10	3.74-11
1.98-09	3.40-10	5.34-10	2.05-10	5.57-13	2.65-17	4.66-23	1.41-10	5.17-11
3.14-10	3.07-09	1.69-10	3.85-12	5.02-13	1.80-19	4.03-28	7.08-11	3.03-11
5.20-10	6.62-10	5.82-10	1.98-10	1.33-12	1.66-19	1.65-25	2.05-10	8.27-11
7.96-10	6.17-10	1.52-10	4.21-11	2.70-12	2.13-15	8.48-23	1.74-10	4.70-11
7.05-10	2.51-10	7.36-11	6.45-12	2.88-14	4.12-17	1.86-26	4.54-10	3.52-10
1.57-09	1.12-09	4.40-10	1.48-10	1.06-14	3.64-17	7.64-22	8.34-11	2.88-11
7.35-10	4.87-11	8.20-11	1.49-11	2.00-14	2.54-15	5.56-25	5.39-11	2.75-11
1.92-09	1.42-09	1.16-09	3.05-10	1.53-12	9.96-16	1.43-21		
7.02-10	5.17-10	5.36-10	1.61-10	1.04-12	6.57-16	1.17-21	3.59-10	1.01-10

PHI 135 TO 180 DEGREES

5.95-10	1.81-11	2.03-10	1.07-11	6.94-16	1.10-24	1.21-29	4.07-11	1.69-11
1.17-09	4.80-10	7.00-10	3.91-11	4.73-13	1.81-19	3.87-29	6.83-11	2.57-11
4.63-10	4.11-10	2.92-10	9.98-11	1.95-12	3.68-13	6.18-23	2.76-10	2.08-10
2.23-09	1.59-09	1.49-10	4.02-12	2.12-11	8.57-19	5.83-20	3.09-10	1.11-10
8.39-10	2.97-10	4.32-11	1.61-11	1.49-13	1.69-18	1.70-28	9.21-10	7.45-10
9.57-10	2.32-10	3.06-11	7.81-12	3.13-12	8.64-21	1.81-23	1.09-10	7.69-11
8.30-10	1.56-10	1.60-10	2.78-11	8.51-14	2.71-17	3.19-24	4.22-11	9.38-12
2.37-10	4.17-10	4.79-08	5.84-11	4.37-14	1.05-18	8.61-26	5.23-10	4.78-10
9.02-10	1.59-10	1.90-07	3.02-12	9.70-14	7.43-18	5.09-24	2.11-09	1.88-09
1.86-10	3.32-10	2.03-11	1.81-11	2.67-13	2.05-20	2.02-31	4.88-11	1.78-11
1.91-09	1.02-09	4.60-08	6.57-11	8.18-12	9.78-14	1.91-20		
5.47-10	3.41-10	4.53-08	2.94-11	7.51-12	9.78-14	1.90-20	8.90-10	5.11-10
							1.43-08	1.21-09

AIR SCATTERING 4.40 02 ENERGY 6.00-01 ANGLE 1.35 02 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	0.	0.	0.	1.10-06	0.	0.	0.
4.00 01	0.	0.	0.	0.	2.89-07	0.	0.	0.
6.00 01	0.	0.	0.	0.	7.66-09	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	1.19-07	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	0.	0.	0.	7.36-07	7.78-10	8.22-09	1.28-08
4.00 01	0.	0.	0.	2.94-09	2.11-07	2.03-09	3.92-09	2.96-09
6.00 01	0.	0.	0.	8.68-16	1.63-08	1.26-09	3.48-09	2.25-09
8.00 01	0.	0.	0.	0.	2.07-09	9.12-10	3.54-09	1.13-09
9.00 01	0.	0.	0.	0.	2.12-10	8.79-10	1.53-09	2.89-10
1.00 02	0.	0.	0.	0.	5.49-11	1.55-09	2.14-10	1.23-09
1.20 02	0.	0.	0.	0.	3.97-11	1.52-09	6.66-10	8.51-10
1.40 02	0.	0.	0.	0.	0.	3.81-10	5.28-10	5.00-09
1.60 02	0.	0.	0.	0.	5.29-12	6.47-11	1.85-09	1.59-10
1.80 02	0.	0.	0.	0.	0.	0.	1.13-09	1.92-09
	0.	0.	0.	5.11-10	8.60-08	2.06-09	4.31-09	4.27-09
	0.	0.	0.	5.11-10	5.37-09	2.85-10	1.12-09	1.55-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	1.55-08	5.29-09	1.68-08	1.42-09	3.89-10
4.00 01	0.	0.	0.	0.	3.21-09	6.48-09	1.85-09	4.91-10
6.00 01	0.	0.	0.	0.	5.17-10	6.72-09	7.45-10	7.47-09
8.00 01	0.	0.	0.	0.	3.05-11	3.84-09	8.00-10	6.65-10
9.00 01	0.	0.	0.	0.	1.24-12	4.14-09	6.67-10	5.00-10
1.00 02	0.	0.	0.	0.	0.	2.04-09	1.22-09	9.57-10
1.20 02	0.	0.	0.	0.	3.07-11	7.51-10	1.14-09	3.28-10
1.40 02	0.	0.	0.	0.	0.	1.29-09	9.34-10	9.72-10
1.60 02	0.	0.	0.	0.	3.19-09	6.66-12	6.34-09	2.62-10
1.80 02	0.	0.	0.	0.	0.	6.35-11	9.98-11	9.45-11
	0.	0.	0.	9.34-10	1.59-09	6.85-09	2.92-09	2.98-09
	0.	0.	0.	9.34-10	6.35-10	1.62-09	7.04-10	1.20-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	8.19-10	5.76-09	2.37-10	4.18-10
4.00 01	0.	0.	0.	0.	1.43-10	2.19-09	1.58-09	4.66-10
6.00 01	0.	0.	0.	0.	3.55-12	1.93-09	6.19-10	6.59-10
8.00 01	0.	0.	0.	0.	3.99-16	9.65-10	1.87-09	1.75-09
9.00 01	0.	0.	0.	0.	0.	4.55-11	7.85-09	5.69-10
1.00 02	0.	0.	0.	0.	1.10-11	1.22-10	2.25-09	6.63-10
1.20 02	0.	0.	0.	0.	0.	3.85-12	3.93-09	4.40-10
1.40 02	0.	0.	0.	0.	0.	3.58-11	2.42-09	1.64-09
1.60 02	0.	0.	0.	0.	0.	0.	2.60-10	4.33-10
1.80 02	0.	0.	0.	0.	2.49-12	8.25-11	2.88-11	7.58-10
	0.	0.	0.	0.	7.71-11	1.60-09	4.79-09	1.77-09
	0.	0.	0.	0.	4.77-11	3.34-10	1.64-09	5.16-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	6.16-11	1.66-08	4.27-10	5.90-10
4.00 01	0.	0.	0.	0.	0.	9.15-10	4.07-10	2.41-09
6.00 01	0.	0.	0.	0.	0.	5.25-10	3.29-09	1.18-09
8.00 01	0.	0.	0.	0.	2.31-12	7.30-10	6.13-09	3.69-09
9.00 01	0.	0.	0.	0.	0.	0.	5.19-09	3.87-10
1.00 02	0.	0.	0.	0.	0.	1.53-10	1.15-09	1.81-10
1.20 02	0.	0.	0.	0.	0.	1.94-12	1.50-09	4.20-10
1.40 02	0.	0.	0.	0.	0.	2.19-11	2.11-10	3.24-10
1.60 02	0.	0.	0.	0.	0.	3.16-10	9.82-10	4.71-09
1.80 02	0.	0.	0.	0.	0.	1.76-11	1.56-10	2.09-10
	0.	0.	0.	0.	4.47-12	1.63-09	4.80-09	3.13-09
	0.	0.	0.	0.	2.50-12	8.22-10	1.42-09	1.39-09

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AIR SCATTERING 4.40 02 ENERGY 6.00-01 ANGLE 1.35 02 DIST. 6.10 02
5.40 01 1.73 03 0. 0. 5.59 04 5.00 01 1.80 03

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	5.50-08
0.	0.	0.	0.	0.	0.	0.	1.44-08
0.	0.	0.	0.	0.	0.	0.	3.83-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0	0.	0.	0.	0.	0.	0.	
							5.93-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
6.05-10	2.60-10	3.88-10	4.58-12	3.78-12	3.45-20	5.67-25	3.74-08	4.26-09
3.67-10	1.55-09	1.59-10	1.48-11	3.70-13	6.36-19	3.24-27	1.09-08	6.52-10
1.03-09	5.76-10	6.63-10	4.22-11	9.71-14	3.60-17	9.46-25	1.04-09	1.23-10
1.18-09	7.19-10	2.09-10	2.17-10	5.08-14	8.06-18	1.13-25	2.94-10	9.16-11
2.69-09	3.02-09	2.10-10	9.28-11	8.79-14	6.05-18	7.78-25	1.75-10	4.58-11
3.96-09	9.31-10	4.64-10	1.98-11	1.10-13	8.00-18	1.35-24	1.73-10	5.65-11
1.80-09	2.23-09	1.30-09	3.52-11	3.40-13	7.00-18	3.06-24	1.56-10	3.00-11
7.34-10	3.45-10	9.71-11	2.92-11	4.96-13	1.99-16	5.98-25	1.47-10	8.62-11
8.39-10	5.50-10	4.79-10	4.26-11	6.02-14	4.18-16	6.58-25	8.82-11	5.51-11
1.04-10	1.47-10	2.96-11	8.98-13	1.31-14	3.60-20	3.60-29	7.61-11	3.58-11
2.85-09	2.28-09	9.48-10	1.31-10	6.23-13	1.42-16	1.97-24		
7.39-10	7.66-10	3.82-10	6.13-11	2.62-13	8.73-17	1.04-24	4.69-09	2.89-10

PHI 45 TO 90 DEGREES

3.30-09	3.14-09	3.82-10	2.21-12	5.67-14	4.23-17	1.24-25	1.69-09	8.29-10
2.79-10	5.86-10	5.04-10	4.65-11	2.96-13	8.98-15	3.37-27	4.37-10	1.25-10
8.00-10	1.17-09	7.42-10	2.64-11	7.39-13	1.62-16	5.58-28	4.35-10	1.32-10
5.41-10	5.28-09	8.16-10	3.46-11	1.82-13	1.04-17	2.94-24	2.26-10	9.14-11
5.53-10	6.58-10	3.41-09	8.11-12	7.48-14	7.06-18	3.08-28	2.06-10	1.33-10
2.49-10	7.04-09	8.34-10	3.63-10	7.55-11	2.24-17	2.58-26	2.04-10	6.47-11
6.90-10	5.57-10	1.90-10	6.31-12	1.73-13	6.01-16	3.38-25	8.61-11	2.72-11
2.37-09	1.91-09	5.73-11	1.45-11	6.03-15	1.57-19	5.46-28	1.53-10	4.92-11
4.50-10	6.60-10	1.23-10	3.91-12	8.68-14	1.22-16	9.28-29	3.72-10	7.65-11
2.90-10	1.33-10	1.07-10	4.65-11	2.17-13	1.41-21	1.73-24	1.53-11	5.70-12
1.73-09	4.47-09	1.42-09	1.00-10	1.35-11	1.83-15	1.20-24		
4.90-10	2.48-09	6.17-10	6.20-11	1.23-11	1.58-15	9.61-25	5.73-10	9.64-11

PHI 90 TO 135 DEGREES

3.97-10	1.17-09	3.28-10	6.78-12	1.47-14	1.52-18	1.28-22	2.52-10	9.64-11
5.00-10	3.91-10	1.87-10	1.70-10	1.19-13	1.31-18	1.45-20	1.47-10	3.23-11
1.21-09	4.31-10	1.24-09	3.34-10	1.21-13	7.54-17	2.68-19	1.33-10	2.29-11
8.84-10	2.83-10	5.44-10	3.96-11	3.19-13	7.11-16	1.57-24	1.46-10	4.09-11
2.10-10	4.35-10	6.57-11	4.89-12	6.45-14	2.95-15	8.33-30	2.58-10	2.29-10
1.81-10	3.45-10	2.49-10	1.37-11	1.86-11	2.19-15	3.49-30	9.48-11	3.21-11
6.41-10	2.53-10	3.05-10	1.03-11	1.32-13	2.42-16	1.81-28	1.45-10	7.25-11
1.14-09	5.05-10	2.24-10	8.38-12	3.54-12	1.98-16	1.25-24	1.37-10	5.64-11
1.09-10	2.27-10	9.74-11	7.68-12	2.40-13	1.45-15	4.92-25	2.19-11	6.48-12
1.05-10	1.40-10	7.01-13	1.11-11	2.17-14	1.37-19	1.25-22	2.22-11	1.47-11
1.33-09	7.45-10	7.92-10	1.43-10	4.43-12	1.53-15	7.38-20		
1.41-10	1.33-10	2.43-10	8.62-11	3.35-12	8.99-16	7.37-20	2.74-10	5.68-11

PHI 135 TO 180 DEGREES

1.80-10	9.78-10	8.72-11	1.32-11	1.08-12	1.79-15	2.47-20	5.41-10	3.88-10
3.68-10	1.94-10	1.63-10	1.23-10	6.05-13	8.83-16	1.42-21	9.96-11	3.53-11
9.14-10	3.19-10	3.58-10	8.79-11	1.02-12	1.33-16	1.80-18	1.64-10	6.72-11
9.71-10	1.64-09	9.13-10	1.15-11	4.81-14	7.48-18	3.81-24	3.25-10	1.13-10
1.31-09	2.06-09	2.51-10	3.47-12	1.02-13	7.30-19	1.18-25	2.13-10	1.27-10
2.82-10	3.64-10	1.94-10	2.73-10	3.44-13	8.23-19	9.98-28	5.59-11	2.38-11
1.39-09	5.87-10	5.43-10	4.62-11	1.82-13	4.72-17	1.32-22	9.28-11	4.03-11
8.36-09	7.14-11	1.54-10	5.17-11	3.71-13	8.97-18	9.52-30	1.87-10	1.19-10
	1.11-10	4.82-11	6.55-12	3.14-14	6.98-19	4.66-21	1.36-10	8.85-11
2.08-10	5.90-12	2.35-11	5.01-12	1.52-13	1.80-19	6.62-31	1.39-11	6.10-12
3.66-09	1.37-09	7.32-10	1.27-10	7.07-13	3.17-16	4.81-19		
1.82-09	2.08-10	2.77-10	6.01-11	2.57-13	2.08-16	4.78-19	3.51-10	8.10-11
							9.25-09	5.48-10

AIR SCATTERING 4.41 02 ENERGY 6.00-01 ANGLE 1.80 02 DIST. 6.10 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	0.	0.	0.	1.76-06	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	1.06-07	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	0.	0.	2.90-12	1.15-06	6.67-09	3.49-08	1.99-09
4.00 01	0.	0.	0.	0.	8.69-09	2.37-09	1.03-08	2.68-09
6.00 01	0.	0.	0.	0.	5.28-10	1.11-08	2.50-09	1.02-09
8.00 01	0.	0.	0.	0.	1.90-13	1.85-09	4.98-10	4.27-10
9.00 01	0.	0.	0.	0.	0.	6.77-10	9.17-10	1.60-09
1.00 02	0.	0.	0.	0.	0.	2.93-10	5.93-09	5.04-10
1.20 02	0.	0.	0.	0.	0.	4.14-12	1.18-09	1.92-09
1.40 02	0.	0.	0.	0.	0.	0.	8.09-10	2.50-10
1.60 02	0.	0.	0.	0.	0.	0.	3.96-09	5.73-10
1.80 02	0.	0.	0.	0.	0.	0.	2.19-10	3.10-09
	0.	0.	0.	1.75-13	7.08-08	4.53-09	7.22-09	2.34-09
	0.	0.	0.	1.75-13	4.68-09	1.73-09	2.72-09	4.53-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	6.01-13	3.77-08	1.21-09	1.81-09	6.54-09
4.00 01	0.	0.	0.	0.	9.65-09	5.70-10	1.42-09	1.35-09
6.00 01	0.	0.	0.	0.	2.36-10	4.87-09	2.26-09	1.96-09
8.00 01	0.	0.	0.	0.	3.49-13	3.60-09	5.14-10	1.07-09
9.00 01	0.	0.	0.	0.	2.11-12	1.27-09	7.18-10	7.90-10
1.00 02	0.	0.	0.	0.	0.	1.85-09	5.37-09	9.18-10
1.20 02	0.	0.	0.	0.		5.54-11	7.94-10	1.08-09
1.40 02	0.	0.	0.	0.	0.	1.16-10	2.53-09	3.87-10
1.60 02	0.	0.	0.	0.	0.	0.		1.25-09
1.80 02	0.	0.	0.	0.	0.	1.91-14	9.46-10	9.32-11
	0.	0.	0.	3.63-14	4.01-09	3.23-09	3.17-09	2.47-09
	0.	0.	0.	3.62-14	1.12-09	7.03-10	6.83-10	4.19-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	2.61-08	1.87-09	1.27-09	7.30-10
4.00 01	0.	0.	0.	0.	8.95-09	2.00-09	1.61-09	1.61-09
6.00 01	0.	0.	0.	1.19-13	4.26-10	4.49-09	4.37-09	1.87-09
8.00 01	0.	0.	0.	0.	3.26-10	3.05-09	7.86-10	8.53-10
9.00 01	0.	0.	0.	0.	1.16-13	2.42-09	3.55-10	3.33-10
1.00 02	0.	0.	0.	0.	7.60-12	7.84-11	4.09-09	2.88-10
1.20 02	0.	0.	0.	0.	3.00-1	8.64-11	3.67-10	5.52-10
1.40 02	0.	0.	0.	0.	0.	1.48-11	1.25-09	6.17-10
1.60 02	0.	0.	0.	0.	0.	5.15-10	7.63-10	1.75-09
1.80 02	0.	0.	0.	0.	0.	0.	7.52-10	2.91-10
	0.	0.	0.	3.17-14	3.36-09	3.20-09	3.18-09	1.87-09
	0.	0.	0.	3.17-14	8.32-10	8.73-10	1.04-09	4.22-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	5.34-08	3.52-09	3.36-09	3.85-09
4.00 01	0.	0.	0.	0.	9.12-09	8.45-10	1.48-09	7.97-10
6.00 01	0.	0.	0.	0.	8.82-10	7.23-09	3.36-09	1.53-09
8.00 01	0.	0.	0.	0.	8.67-12	7.66-10	5.25-10	8.30-10
9.00 01	0.	0.	0.	0.	5.83-11	1.26-08	5.03-10	9.66-10
1.00 02	0.	0.	0.	0.	9.63-12	1.35-10	4.35-10	1.09-10
1.20 02	0.	0.	0.	0.	0.	1.24-09	3.01-09	7.42-10
1.40 02	0.	0.	0.	0.	0.	3.35-12	4.82-10	1.69-09
1.60 02	0.	0.	0.	0.	0.	1.64-11	4.80-10	7.00-10
1.80 02	0.	0.	0.	0.	0.	0.	1.46-10	2.55-10
	0.	0.	0.	0.	5.05-09	5.15-09	2.89-09	2.05-09
	0.	0.	0.	0.	1.86-09	1.67-09	7.69-10	4.34-10

326340777165 111125646325

AIR SCATTERING 4.41 02 ENERGY 6.00-01 ANGLE 1.80 02 DIST. 6.10 02
6.70 01 1.72 03 0. 0. 5.64 04 5.00 01 1.80 03

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
0.	0.	0.	0.	0.	0.	0.	8.78-08	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							5.30-09	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
3.53-09	5.44-11	5.58-10	8.98-13	4.76-14	1.76-17	1.56-27	5.87-08	4.02-09
1.52-09	1.08-09	1.01-10	6.84-12	6.09-13	2.71-20	9.66-27	9.12-10	3.59-10
1.18-09	3.47-09	8.08-10	2.58-11	5.18-14	3.48-17	8.08-25	5.20-10	1.98-10
7.50-10	3.70-10	3.09-10	5.26-11	5.04-14	9.09-18	9.17-27	1.01-10	2.17-11
2.89-10	1.87-10	2.94-10	4.91-12	6.37-14	6.74-19	1.08-26	9.04-11	2.65-11
4.36-10	1.07-09	3.12-09	7.79-12	2.00-14	2.79-17	1.48-28	2.48-10	1.02-10
8.43-10	2.85-09	1.37-10	6.49-11	8.66-14	4.24-14	2.98-23	1.21-10	1.07-11
1.59-09	2.64-10	2.27-10	2.18-11	1.39-12	2.47-17	5.53-25	6.62-11	2.49-11
4.02-10	5.66-11	1.41-10	5.92-12	8.43-14	2.24-16	4.82-32	1.40-10	9.54-11
1.95-09	6.28-10	3.41-11	3.11-11	6.08-14	2.82-18	6.33-25	1.14-10	6.71-11
2.05-09	2.50-09	1.09-09	5.74-11	5.45-13	1.39-14	1.01-23		
4.17-10	1.18-09	5.48-10	1.90-11	2.52-13	1.38-14	9.69-24	4.02-09	2.68-10

PHI 45 TO 90 DEGREES

7.23-10	1.24-09	3.58-10	7.85-12	5.87-13	2.83-16	5.63-23	2.14-09	7.22-10
1.23-09	2.98-10	1.84-10	9.98-12	2.54-12	2.61-15	2.80-27	5.99-10	2.08-10
1.43-09	5.22-10	1.54-10	1.55-11	2.20-12	1.30-16	1.80-26	3.00-10	6.35-11
1.24-09	4.44-10	2.61-10	2.07-10	9.42-14	6.41-14	5.18-29	1.78-10	4.60-11
2.75-10	4.13-10	1.51-10	4.35-11	5.57-11	7.63-18	9.87-27	8.73-11	2.71-11
8.59-10	2.82-10	7.24-10	2.96-11	7.19-14		5.84-26	2.63-10	9.66-11
7.45-10	5.82-10	1.33-08	6.03-11	4.47-13	2.06-17	1.89-24	2.01-10	1.31-10
7.76-10	3.43-10	1.22-09	2.94-11	3.67-12	1.29-16	3.48-26	1.18-10	4.29-11
1.52-09	3.88-10	7.30-11	1.82-09	2.49-13	7.89-16	3.73-26	4.79-11	4.06-11
5.43-10	1.45-11	4.68-10	1.11-12	6.03-14	1.84-21	9.76-26	4.59-11	2.09-11
1.98-09	8.80-10	5.03-09	4.31-10	1.19-11	2.16-14	4.05-24		
4.18-10	1.59-10	4.26-09	3.20-10	9.75-12	2.09-14	3.45-24	5.40-10	7.98-11

PHI 90 TO 135 DEGREES

1.26-09	1.07-09	2.93-10	6.60-12	2.31-12	6.84-16	1.54-18	1.45-09	3.88-10
2.73-09	9.69-10	5.53-10	4.72-11	3.30-13	2.58-17	4.71-21	6.58-10	1.67-10
9.86-10	2.32-10	1.71-10	1.74-11	4.93-13	5.38-17	1.10-23	3.48-10	1.36-10
4.67-09	1.53-09	1.80-10	9.02-12	7.18-13	3.44-13	2.21-23	2.59-10	9.76-11
3.74-10	5.99-10	1.77-10	4.41-12	5.58-12	2.88-19	5.01-26	1.05-10	6.03-11
8.73-10	2.81-10	2.98-10	2.50-11	1.16-13	3.52-18	4.37-27	1.55-10	7.97-11
5.87-10	1.35-09	6.02-10	3.78-11	6.43-13	2.17-17	2.97-25	5.77-11	1.52-11
2.56-10	6.43-09	4.95-09	1.57-11	1.10-13	3.60-16	1.57-22	1.69-10	8.04-11
3.88-10	1.87-10	2.85-10	3.51-12	7.35-15	1.09-18	1.81-26	8.58-11	4.11-11
6.83-10	8.25-11	3.40-11	5.49-13	6.71-14	1.91-19	6.73-29	4.32-11	1.94-11
2.92-09	3.14-09	1.86-09	3.85-11	1.80-12	1.29-15	9.40-20		
1.43-09	1.68-09	1.28-09	8.82-12	1.15-12	1.08-15	9.39-20	5.05-10	8.07-11

PHI 135 TO 180 DEGREES

6.68-10	1.23-10	1.85-10	3.19-12	1.16-12	1.10-16	1.46-23	2.97-09	1.49-09
1.62-09	4.82-10	8.07-11	8.82-12	3.52-13	8.78-18	6.62-24	5.80-10	1.37-10
4.83-10	1.35-09	1.16-10	2.16-11	2.90-13	8.75-16	3.56-26	4.17-10	1.00-10
1.03-09	5.16-10	1.90-10	2.51-11	8.36-13	2.08-17	8.89-28	8.36-11	1.72-11
1.07-10	1.68-10	5.07-10	1.67-11	9.15-13	5.33-18	2.73-23	4.23-10	2.58-10
1.38-09	1.30-09	2.10-10	7.80-11	9.14-13	1.52-15	1.11-29	6.30-11	1.94-11
6.93-10	6.66-10	1.82-10	8.72-12	8.46-14	1.30-18	9.35-27	1.65-10	6.11-11
1.25-09	8.09-10	7.72-10	4.99-11	5.15-14	6.95-17	7.96-27	8.95-11	3.25-11
3.19-10	1.24-10	4.61-10	1.22-11	1.87-13	2.10-16	8.68-23	4.12-11	1.32-11
4.80-10	8.19-11	1.05-10	2.66-12	1.22-13	3.18-18	3.94-28	2.10-11	1.06-11
1.69-09	1.33-09	5.93-10	5.05-11	8.80-13	5.68-16	2.19-23		
3.20-10	4.21-10	1.45-10	1.59-11	2.64-13	3.54-16	1.58-23	5.88-10	1.10-10
							8.88-09	5.95-10

d_o, Source-Detector Separation Distance = 10 ft

AIR SCATTERING 5.00 02 ENERGY 1.20 01 ANGLE 1.00 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	3.71-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	1.11-05	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.33-06
	2.24-07	0.	0.	0.	0.	0.	1.93-06	1.40-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	2.36-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	7.09-06	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.52-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.48-06
	1.42-07	0.	0.	0.	0.	0.	1.23-06	8.93-08
	7.49-08	0.	0.	0.	0.	0.	1.23-06	5.67-08

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	7.55-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.27-13
1.60 02	0.	0.	0.	0.	0.	0.	4.24-16	1.35-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.52-12
	0.	0.	0.	0.	0.	0.	7.37-17	2.77-12
	0.	0.	0.	0.	0.	0.	7.37-17	2.04-12

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.92-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.69-15
1.40 02	0.	0.	0.	0.	0.	0.	0.	4.65-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.56-11
1.80 02	0.	0.	0.	0.	0.	0.	1.36-12	1.43-12
	0.	0.	0.	0.	0.	0.	8.19-14	3.43-12
	0.	0.	0.	0.	0.	0.	5.89-14	2.64-12

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.49-15
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.70-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	4.03-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	9.54-13
1.80 02	0.	0.	0.	0.	0.	0.	1.24-12	6.27-12
	0.	0.	0.	0.	0.	0.	7.46-14	7.18-12
	0.	0.	0.	0.	0.	0.	6.35-14	5.91-12

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AIR SCATTERING 5.00 02 ENERGY 1.20 01 ANGLE 1.00 DIST. 3.05 02
2.70 01 1.76 03 0. 0. 4.54 04 5.00 01 1.80 03

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	0.	0.	0.	0.	0.	0.	1.85-05	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	2.89-06	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	3.49-07	
0.	0.	0.	0.	0.	0.	0.		
							1.64-06	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	8.57-13	1.47-12	1.14-11	2.68-12	1.09-14	8.64-28	1.18-05	6.21-06
0.	3.41-12	1.70-11	1.13-11	1.46-11	1.57-13	1.23-21	1.31-12	6.29-13
1.82-12	2.68-09	1.47-11	1.74-10	4.91-11	7.00-14	1.49-24	1.66-10	1.27-10
0.	5.27-11	1.52-11	2.35-11	4.49-11	7.91-13	7.50-22	4.96-12	1.33-12
1.83-12	1.28-10	5.17-11	5.32-11	4.86-11	2.13-14	2.80-21	1.84-06	1.84-06
8.55-12	1.44-09	7.50-11	1.90-10	1.65-11	2.11-14	4.80-21	9.49-11	8.43-11
2.18-10	3.39-11	3.29-11	2.19-10	4.21-11	1.90-13	1.82-18	2.87-11	1.19-11
5.18-10	6.30-11	1.94-10	2.45-11	2.39-10	1.80-14	2.04-16	6.16-11	4.40-11
4.32-10	7.81-11	1.09-10	3.69-11	7.29-12	1.13-12	2.86-17	4.86-11	1.81-11
1.12-09	1.14-10	2.80-10	1.53-11	8.57-09	9.95-15	2.05-29	2.22-07	1.41-07
3.54-10	1.05-09	1.32-10	1.84-10	6.37-10	5.77-13	5.97-17		
1.40-10	6.10-10	4.01-11	6.36-11	5.20-10	3.62-13	5.97-17	1.04-06	4.92-07

PHI 45 TO 90 DEGREES

0.	2.42-10	2.85-12	5.10-12	1.75-12	1.62-15	5.48-26	1.48-11	1.45-11
0.	3.04-11	7.91-12	1.65-10	1.80-12	4.21-14	2.63-24	6.09-12	3.53-12
0.	6.81-11	2.77-11	1.28-11	3.80-11	1.93-12	1.35-18	5.98-12	2.71-12
4.16-13	2.91-11	1.42-11	1.78-11	1.49-11	1.32-12	1.05-20	2.96-12	9.31-13
1.35-11	1.32-10	1.09-11	3.57-11	5.68-11	5.06-16	2.57-19	1.12-11	4.92-12
1.49-11	9.14-11	1.62-10	3.17-11	3.33-11	1.70-16	7.87-22	1.39-11	5.18-12
4.18-11	1.41-10	1.03-10	3.17-11	5.32-11	2.84-14	2.55-22	1.76-11	5.67-12
5.92-11	2.12-11	6.58-11	3.68-11	3.67-11	4.16-13	6.83-23	1.04-11	2.77-12
4.52-10	1.29-10	5.64-11	1.30-10	4.85-11	2.22-14	1.86-21	5.63-11	2.24-11
7.63-10	9.71-11	1.21-10	3.88-11	1.07-09	3.17-11	5.14-26	9.64-11	3.16-11
1.59-10	1.66-10	1.12-10	9.48-11	1.31-10	2.99-12	4.07-19		
4.77-11	3.45-11	2.90-11	3.44-11	6.79-11	2.09-12	3.63-19	3.30-11	6.20-12

PHI 90 TO 135 DEGREES

0.	8.50-13	3.09-11	6.29-12	3.69-10	1.34-15	2.97-25	6.85-12	5.58-12
0.	5.20-11	5.32-12	1.96-11	2.29-12	2.91-15	4.80-25	3.82-12	2.15-12
0.	1.46-11	1.38-11	5.69-12	2.94-11	5.07-14	2.16-22	1.95-12	7.39-13
0.	4.49-11	1.93-11	6.76-11	2.48-11	1.55-14	3.06-20	5.38-12	2.10-12
4.14-11	9.04-12	5.11-10	3.49-11	2.10-12	1.15-14	4.12-21	2.35-11	1.80-11
1.03-09	9.78-12	1.17-11	2.29-11	2.51-12	1.88-14	2.59-18	9.51-11	9.26-11
8.70-11	8.90-11	4.33-11	1.61-11	5.36-12	7.58-14	2.60-21	1.52-11	4.96-12
6.59-11	4.59-11	3.82-11	1.10-10	8.83-11	6.70-13	8.01-21	1.41-11	3.09-12
4.66-10	9.68-11	1.10-10	1.72-10	8.47-11	2.82-14	6.56-23	5.95-11	2.18-11
3.32-10	1.62-10	4.12-11	4.38-11	1.84-10	2.11-15	7.83-20	4.55-11	1.52-11
3.34-10	9.87-11	1.49-10	1.04-10	9.04-11	2.32-13	4.68-19		
1.84-10	2.57-11	8.63-11	3.18-11	3.63-11	1.63-13	4.50-19	4.57-11	1.70-11

PHI 135 TO 180 DEGREES

0.	3.43-12	0.	6.08-10	2.29-13	1.21-17	2.43-23	1.48-11	1.46-11
0.	4.79-11	8.32-13	1.33-11	1.86-12	5.91-14	0.	3.25-12	1.76-12
5.89-11	5.83-10	1.51-11	1.96-10	6.54-12	3.19-14	1.24-22	4.57-11	2.69-11
0.	1.98-10	1.50-09	1.78-10	4.15-12	2.65-13	4.21-24	7.01-11	1.66-11
5.51-11	1.15-10	8.23-11	1.50-11	1.95-12	1.93-14	1.33-26	1.52-11	6.42-12
1.40-11	2.23-11	2.95-10	4.40-11	8.38-12	7.64-14	1.84-16	1.44-11	9.54-12
8.07-10	3.47-10	4.02-11	1.52-10	2.85-11	6.88-13	2.31-21	1.02-10	6.36-11
3.10-10	6.30-11	6.99-11	7.38-11	1.93-11	1.66-12	1.66-22	3.69-11	1.51-11
2.70-10	7.12-11	7.02-11	2.91-11	5.46-11	1.08-11	7.27-25	3.29-11	8.18-12
3.29-10	1.02-10	3.35-10	3.07-11	3.63-11	8.81-16	3.32-21	5.03-11	1.50-11
4.40-10	4.01-10	6.22-10	2.35-10	3.13-11	2.67-12	3.20-17		
2.31-10	1.43-10	4.41-10	8.22-11	1.19-11	2.26-12	3.20-17	9.33-11	2.81-11
							1.64-06	7.73-07

AIR SCATTERING 5.01 02 ENERGY 1.20 01 ANGLE 1.50 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	7.76-08	6.15-08	5.58-08	0.	0.	0.	0.
4.00 01	0.	0.	0.	1.96-08	5.88-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	2.54-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	2.96-08	0.
9.00 01	0.	0.	0.	0.	0.	0.	4.25-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	5.22-08
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.91-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	4.26-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	5.24-08
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.43-08
	0.	4.68-09	3.71-09	6.76-09	1.02-08	6.77-09	1.70-08	3.72-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	4.94-08	3.92-08	3.55-08	0.	0.	0.	0.
4.00 01	0.	0.	0.	1.25-08	3.74-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	1.62-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	1.88-08	0.
9.00 01	0.	0.	0.	0.	0.	0.	2.71-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.32-08
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.21-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.71-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	3.34-08
1.80 02	0.	0.	0.	0.	0.	5.15-24	1.91-13	1.55-08
	0.	2.98-09	2.36-09	4.31-09	6.50-09	4.31-09	1.08-08	2.37-08
	0.	1.49-09	1.67-09	3.04-09	4.59-09	4.31-09	7.74-09	8.09-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.95-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.15-13
1.80 02	0.	0.	0.	0.	0.	0.	4.29-14	7.41-12
	0.	0.	0.	0.	0.	0.	2.58-15	5.46-13
	0.	0.	0.	0.	0.	0.	1.59-15	2.97-13

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.65-14
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.88-13
1.60 02	0.	0.	0.	0.	0.	0.	1.63-12	1.59-11
1.80 02	0.	0.	0.	0.	0.	0.	3.13-15	2.45-12
	0.	0.	0.	0.	0.	0.	2.84-13	2.98-12
	0.	0.	0.	0.	0.	0.	2.84-13	2.63-12

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.89-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.47-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	4.27-11
	0.	0.	0.	0.	0.	0.	0.	2.72-12
	0.	0.	0.	0.	0.	0.	0.	1.90-12

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AIR SCATTERING 5.01 02 ENERGY 1.20 01 ANGLE 1.50 01 DIST. 3.05 02
2.30 01 1.76 03 0. 0. 4.56 04 5.00 01 1.80 03

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02	
0.	0.	0.	0.	0.	0.	0.	3.57-07
0.	0.	0.	0.	0.	0.	0.	5.78-08
0.	0.	0.	0.	0.	0.	0.	1.12-08
0.	0.	0.	0.	0.	0.	0.	7.69-09
0.	0.	0.	0.	0.	0.	0.	1.11-08
0.	0.	0.	0.	0.	0.	0.	7.82-09
0.	0.	0.	0.	0.	0.	0.	2.86-09
0.	0.	0.	0.	0.	0.	0.	6.40-09
0.	0.	0.	0.	0.	0.	0.	7.87-09
0.	0.	0.	0.	0.	0.	0.	3.64-09
0.	0.	0.	0.	0.	0.	0.	
							4.46-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	1.98-10	2.32-10	3.09-12	1.14-12	5.37-17	4.01-28	2.28-07	8.60-08
0.	1.68-10	7.51-11	7.01-11	4.82-11	6.13-15	5.56-22	3.68-08	2.12-08
7.87-12	2.92-11	4.65-11	5.20-11	3.48-11	1.21-14	9.17-21	7.13-09	7.12-09
2.24-09	5.92-11	5.85-11	3.87-11	1.33-12	2.49-14	3.87-22	5.11-09	4.00-09
6.04-12	2.40-10	5.20-11	3.03-11	8.06-12	1.49-12	3.35-24	7.06-09	7.04-09
1.24-10	3.23-10	1.30-10	5.57-11	6.98-12	1.56-13	2.02-21	5.02-09	4.98-09
7.82-11	3.43-10	6.02-11	8.87-11	2.04-11	1.43-13	2.09-20	1.85-09	1.82-09
5.79-10	3.38-11	1.37-10	1.38-10	3.03-11	1.33-12	2.43-24	4.13-09	2.15-09
7.75-10	8.38-10	1.97-10	3.55-11	1.50-10	3.30-13	2.55-24	5.14-09	1.31-09
1.60-09	1.71-10	1.84-10	6.94-11	8.11-10	3.47-13	9.12-23	2.50-09	2.81-10
1.16-09	4.43-10	1.92-10	1.30-10	1.10-10	7.76-13	9.82-21		
7.41-10	2.01-10	4.03-11	3.17-11	4.95-11	4.21-13	7.23-21	2.85-08	7.04-09

PHI 45 TO 90 DEGREES

0.	5.35-11	2.21-10	3.92-11	1.52-12	1.06-17	2.19-30	1.21-11	8.04-12
0.	5.58-11	1.19-11	1.18-11	5.65-11	5.63-15	1.54-20	4.91-12	2.64-12
0.	7.83-11	4.11-12	1.79-10	9.76-11	4.37-15	1.87-21	1.06-11	5.69-12
3.82-11	1.80-10	4.27-11	6.40-11	3.78-12	2.20-12	3.17-23	1.74-11	7.04-12
1.54-12	2.95-10	2.87-10	2.72-11	2.07-11	1.03-13	1.04-21	2.91-11	1.70-11
2.06-11	8.14-10	4.94-11	1.69-11	1.40-11	4.01-15	6.88-24	5.31-11	4.23-11
4.38-10	1.46-10	7.92-11	4.79-11	3.45-12	5.23-15	1.39-19	5.23-11	2.37-11
3.37-11	3.00-11	8.26-11	2.26-11	1.59-11	9.89-14	3.92-21	8.62-12	1.95-12
1.13-09	4.78-11	1.63-10	3.29-10	2.76-11	2.13-14	1.58-21	1.19-10	8.30-11
7.29-10	6.10-11	3.17-10	9.24-11	8.32-12	1.28-13	1.13-23	8.42-11	3.24-11
4.08-10	3.53-10	1.84-10	1.83-10	5.36-11	7.79-13	5.02-20		
1.81-10	1.39-10	4.16-11	4.99-11	2.72-11	7.31-13	4.56-20	6.94-11	1.89-11

PHI 90 TO 135 DEGREES

0.	1.28-12	5.31-13	1.56-10	1.06-11	4.46-16	9.23-34	3.99-12	3.54-12
0.	8.51-11	2.78-11	4.09-11	4.91-11	2.99-13	5.03-21	7.83-12	3.51-12
0.	1.18-10	5.31-11	2.05-11	5.04-11	2.76-13	4.08-23	1.02-11	5.20-12
1.52-13	6.56-11	2.50-11	5.01-12	4.75-11	3.08-14	1.07-23	5.68-12	2.47-12
6.73-13	8.29-11	2.21-10	1.85-11	1.14-11	3.52-13	4.13-20	1.36-11	8.06-12
1.24-12	9.34-11	2.69-11	4.39-11	2.05-10	4.59-16	1.22-21	1.08-11	4.40-12
3.46-11	6.79-11	1.45-10	2.28-11	1.24-10	2.40-12	1.94-22	1.49-11	5.02-12
5.30-10	1.90-11	1.52-10	2.32-10	7.53-11	5.41-15	1.35-24	6.10-11	4.47-11
1.83-10	6.93-11	3.23-11	8.97-11	2.51-11	2.06-14	7.27-22	2.72-11	7.33-12
6.10-10	1.79-10	4.48-10	2.14-10	2.36-10	4.72-15	4.04-23	9.08-11	4.32-11
2.21-10	1.48-10	1.91-10	1.32-10	1.55-10	9.86-13	8.46-21		
1.35-10	3.50-11	5.74-11	3.81-11	6.57-11	7.77-13	7.42-21	4.17-11	1.27-11

PHI 135 TO 180 DEGREES

0.	7.06-11	4.00-12	4.28-12	3.97-14	2.61-16	0.	4.48-12	4.12-12
1.75-12	5.80-12	9.41-12	2.34-11	3.84-12	2.65-15	1.26-25	1.46-12	5.03-13
0.	5.81-10	1.40-11	9.87-12	1.88-12	1.32-14	2.34-20	3.56-11	2.11-11
0.	5.93-11	1.61-11	2.27-11	9.81-12	1.01-13	1.24-21	4.83-12	2.15-12
0.	1.56-11	1.05-10	1.78-11	4.52-12	3.41-15	8.26-22	5.23-12	3.33-12
2.41-10	1.02-10	3.38-11	2.75-11	5.06-11	6.09-16	7.81-26	3.04-11	2.19-11
3.99-11	2.36-10	4.34-11	4.87-11	1.45-11	4.09-12	8.41-24	2.08-11	9.66-12
1.87-10	8.44-11	3.89-11	3.33-11	1.91-11	6.16-15	9.70-20	2.44-11	1.43-11
1.94-10	1.58-11	4.03-11	5.62-11	4.72-11	6.98-14	3.83-20	2.20-11	6.97-12
2.20-10	2.24-10	1.65-10	3.87-10	1.32-11	2.50-13	1.41-22	5.51-11	2.07-11
1.52-10	3.15-10	7.65-11	8.00-11	3.27-11	1.40-12	3.92-20		
8.47-11	1.08-10	1.98-11	2.05-11	1.16-11	1.32-12	2.79-20	3.82-11	1.01-11
							4.50-08	1.11-08

AIR SCATTERING 5.02 02 ENERGY 1.20 01 ANGLE 3.00 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	4.49-08	4.58-08	0.	0.	0.
4.00 01	0.	0.	0.	0.	7.74-09	2.16-08	0.	0.
6.00 01	0.	0.	0.	0.	0.	6.40-09	1.85-08	0.
8.00 01	0.	0.	0.	0.	0.	0.	6.12-09	8.04-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.54-08
1.00 02	0.	0.	0.	0.	0.	0.	0.	9.42-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.66-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.68-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	8.02-09
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	2.71-09	4.11-09	5.45-09	6.93-09	2.04-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	2.86-08	2.91-08	0.	0.	0.
4.00 01	0.	0.	0.	0.	4.93-09	1.37-08	0.	0.
6.00 01	0.	0.	0.	0.	0.	4.07-09	1.18-08	0.
8.00 01	0.	0.	0.	0.	0.	0.	3.89-09	5.69-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.62-08
1.00 02	0.	0.	0.	0.	0.	0.	0.	6.00-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.47-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.07-08
1.60 02	0.	0.	0.	0.	0.	0.	2.47-15	5.75-09
1.80 02	0.	0.	0.	0.	0.	0.	2.94-13	3.42-11
	0.	0.	0.	1.72-09	2.61-09	3.47-09	4.41-09	1.44-08
	0.	0.	0.	9.95-10	1.51-09	2.00-09	2.56-09	3.74-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.18-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.09-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.60-11
	0.	0.	0.	0.	0.	0.	0.	1.24-12
	0.	0.	0.	0.	0.	0.	0.	9.76-13

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.98-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	5.17-14
	0.	0.	0.	0.	0.	0.	0.	4.79-14

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.59-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	2.75-12
	0.	0.	0.	0.	0.	0.	0.	2.71-12

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AIR SCATTERING 5.02 02 ENERGY 1.20 01 ANGLE 3.00 01 DIST. 3.05 02

1.70 01	1.77 03	0.	0.	4.51 04	5.00 01	1.80 03		

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02	
0.	0.	0.	0.	0.	0.	0.	7.47-08
0.	0.	0.	0.	0.	0.	0.	1.45-08
0.	0.	0.	0.	0.	0.	0.	7.64-09
0.	0.	0.	0.	0.	0.	0.	2.93-09
0.	0.	0.	0.	0.	0.	0.	3.81-09
0.	0.	0.	0.	0.	0.	0.	1.41-09
0.	0.	0.	0.	0.	0.	0.	2.49-09
0.	0.	0.	0.	0.	0.	0.	2.52-09
0.	0.	0.	0.	0.	0.	0.	1.34-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							1.26-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	5.34-12	8.40-12	5.69-12	2.56-11	5.91-13	7.71-30	4.75-08	2.12-08
9.69-12	3.39-10	2.83-11	5.04-11	1.00-11	7.52-14	1.80-26	9.27-09	5.34-09
8.91-11	4.28-10	5.97-11	8.08-11	2.85-11	4.00-15	2.75-26	4.90-09	2.82-09
1.52-12	1.09-10	3.55-11	7.64-11	1.07-10	2.43-13	3.23-20	1.88-09	1.32-09
5.49-09	1.28-10	1.29-10	5.27-11	2.03-10	8.18-14	1.35-20	2.94-09	1.79-09
6.02-11	4.71-11	1.14-10	1.11-11	7.20-10	3.38-13	6.22-23	9.23-10	9.00-10
2.18-10	1.65-10	1.06-10	5.43-11	1.87-09	2.38-13	4.30-22	2.27-09	1.04-09
4.74-10	8.39-11	1.39-10	3.41-10	1.75-10	1.27-13	6.02-21	1.67-09	3.86-10
1.35-09	2.93-10	2.04-10	1.12-10	3.78-11	7.17-14	7.04-24	1.01-09	1.13-10
2.06-10	4.56-10	4.18-11	2.93-11	6.50-12	2.08-10	7.92-12	5.53-11	2.23-11
1.43-09	3.94-10	1.85-10	1.96-10	8.71-10	1.29-11	6.24-20		
9.35-10	8.78-11	4.61-11	8.97-11	7.50-10	1.26-11	4.88-20	8.43-09	1.87-09

PHI 45 TO 90 DEGREES

0.	5.12-11	1.27-11	6.01-11	1.55-11	4.66-15	2.69-25	5.20-12	2.74-12
0.	8.76-11	1.04-10	2.30-11	3.70-11	5.52-15	1.05-26	1.01-11	4.89-12
7.83-14	1.25-10	1.15-10	1.81-10	1.86-11	4.26-14	1.34-24	1.63-11	7.84-12
4.88-12	8.58-11	4.40-11	1.07-10	1.57-11	1.28-15	1.38-20	9.97-12	3.59-12
3.76-13	9.50-11	4.92-11	4.65-11	5.75-11	5.15-15	9.27-28	9.48-12	3.43-12
6.12-11	8.42-13	2.97-10	9.98-10	3.25-11	7.83-13	7.94-30	4.07-11	2.47-11
8.81-11	1.01-10	4.56-11	1.78-10	1.32-11	6.71-12	2.67-20	2.02-11	6.47-12
3.10-10	7.69-11	3.11-10	4.08-11	9.22-12	1.58-14	4.[illegible]	[illegible]	[illegible]
1.27-10	2.31-11	4.57-11	7.31-11	1.32-11	3.39-15	8.07-18	1.66-11	[illegible]
8.65-14	6.11-11	5.28-11	8.31-11	4.71-12	1.40-15	9.16-29	1.78-11	6.80-12
1.51-10	1.57-10	2.33-10	3.59-10	4.24-11	2.34-12	1.53-18		
4.82-11	4.26-11	7.81-11	2.15-10	1.20-11	2.16-12	1.53-18	4.08-11	8.71-12

PHI 90 TO 135 DEGREES

0.	6.36-12	8.84-12	2.28-10	5.23-12	6.36-15	9.20-24	6.25-12	4.12-12
0.	8.27-10	1.21-11	2.10-10	1.59-10	1.17-14	9.95-26	5.75-11	4.81-11
0.	1.96-11	8.35-12	1.33-10	4.40-12	6.07-14	1.71-23	4.74-12	1.80-12
7.78-16	1.86-10	7.09-12	4.08-11	4.23-12	2.93-14	1.75-21	1.24-11	5.28-12
3.30-12	7.62-12	9.04-12	1.37-11	1.52-11	1.50-14	4.56-23	1.64-12	5.79-13
4.22-13	4.17-11	9.26-12	9.49-11	3.66-12	4.74-14	5.80-24	5.21-12	2.07-12
9.08-10	1.10-10	1.81-10	4.35-11	3.82-12	4.28-13	4.91-22	9.59-11	7.30-11
1.74-09	4.09-11	5.90-11	1.83-10	1.64-11	1.39-13	6.84-21	1.66-10	1.52-10
3.85-11	3.15-11	5.61-11	9.30-11	1.39-11	7.12-14	4.61-19	9.86-12	3.17-12
9.46-11	5.22-11	1.26-10	1.72-11	3.22-11	2.55-14	9.60-23	1.71-11	7.47-12
7.72-10	2.74-10	1.03-10	1.98-10	4.37-11	2.30-13	8.26-20		
5.21-10	1.43-10	4.00-11	6.09-11	2.17-11	1.51-13	8.19-20	9.50-11	4.77-11

PHI 135 TO 180 DEGREES

0.	3.45-11	4.60-11	1.84-11	3.53-11	8.83-14	1.20-24	4.70-12	3.02-12
0.	6.67-11	3.30-11	4.96-12	7.27-12	7.52-15	8.05-23	5.40-12	3.11-12
0.	5.66-11	1.71-11	7.41-11	4.56-10	5.01-13	7.77-22	1.26-11	7.30-12
0.	3.62-10	1.52-11	2.74-11	3.97-12	3.83-15	1.20-21	2.30-11	1.48-11
0.	2.89-09	4.78-11	1.42-11	9.82-12	2.11-14	4.09-26	1.76-10	1.69-10
0.	2.87-10	2.26-11	3.60-10	1.88-11	2.23-14	2.29-23	2.69-11	1.79-11
2.11-12	9.31-11	1.18-10	2.98-10	4.55-12	2.79-13	6.46-20	1.73-11	8.31-12
8.10-12	2.78-11	3.45-11	4.29-11	2.08-11	1.11-12	2.36-21	4.99-12	1.21-12
2.77-10	2.76-11	1.60-11	6.02-11	6.32-11	4.65-12	3.66-24	3.20-11	1.44-11
7.50-11	2.23-10	1.22-11	1.58-11	8.05-12	2.36-13	1.31-20	2.11-11	8.97-12
5.55-11	7.55-10	8.16-11	2.16-10	1.49-10	1.36-12	2.31-20		
2.76-11	5.06-10	2.42-11	8.78-11	1.21-10	1.05-12	2.08-20	6.11-11	3.07-11
							1.35-08	2.95-09

AIR SCATTERING 5.03 02 ENERGY 1.20 01 ANGLE 6.00 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	2.86-08	1.46-08	0.
4.00 01	0.	0.	0.	0.	0.	0.	1.69-08	0.
6.00 01	0.	0.	0.	0.	0.	0.	2.19-09	1.17-08
8.00 01	0.	0.	0.	0.	0.	0.	0.	8.22-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	8.26-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	7.99-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	5.69-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	1.72-09	4.40-09	1.05-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	1.82-08	9.28-09	0.
4.00 01	0.	0.	0.	0.	0.	0.	1.08-08	0.
6.00 01	0.	0.	0.	0.	0.	0.	1.40-09	7.44-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	5.23-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.26-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	5.09-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.26-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.79-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	7.97-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	1.10-09	2.80-09	6.88-09
	0.	0.	0.	0.	0.	6.33-10	1.15-09	1.32-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	4.62-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.36-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.66-12
	0.	0.	0.	0.	0.	0.	0.	2.64-13
	0.	0.	0.	0.	0.	0.	0.	1.63-13

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.75-10
	0.	0.	0.	0.	0.	0.	0.	1.05-11
	0.	0.	0.	0.	0.	0.	0.	1.05-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.

32743557206 1 006004443071

AIR SCATTERING 5.03 02 ENERGY 1.20 01 ANGLE 6.00 01 DIST. 3.05 02
3.20 01 1.76 03 0. 0. 4.50 04 5.00 01 1.80 03

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02	
0.	0.	0.	0.	0.	0.	0.	1.64-08
0.	0.	0.	0.	0.	0.	0.	4.40-09
0.	0.	0.	0.	0.	0.	0.	2.32-09
0.	0.	0.	0.	0.	0.	0.	1.23-09
0.	0.	0.	0.	0.	0.	0.	1.24-09
0.	0.	0.	0.	0.	0.	0.	1.20-09
0.	0.	0.	0.	0.	0.	0.	8.53-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							3.47-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	1.11-10	1.78-11	5.60-11	1.18-11	4.12-17	1.87-24	1.04-08	5.21-09
1.70-12	2.51-11	1.24-11	1.41-11	2.79-12	5.08-15	5.87-23	2.80-09	1.40-09
1.33-10	6.43-11	7.00-11	5.44-11	1.96-11	1.55-13	2.30-23	1.50-09	6.70-10
6.35-11	2.10-11	1.10-10	8.33-11	1.03-11	2.67-13	3.70-21	7.98-10	3.26-10
2.35-10	1.13-11	7.12-10	7.54-11	1.15-11	5.59-13	3.01-22	8.38-10	3.27-10
6.03-10	2.74-10	3.99-11	2.33-10	2.42-11	6.52-13	1.90-18	8.41-10	2.30-10
7.30-10	2.20-10	1.96-10	7.58-11	3.68-11	7.28-14	1.62-20	7.27-10	1.21-10
1.40-09	4.66-10	2.09-10	3.04-11	1.52-11	3.25-14	1.14-19	1.62-10	7.33-11
1.74-10	7.24-11	6.96-11	1.18-10	2.12-11	2.03-12	4.56-22	2.58-11	6.61-12
2.05-10	6.04-12	3.10-10	4.05-11	6.63-12	3.86-13	7.02-22	3.11-11	1.59-11
8.55-10	2.93-10	3.39-10	1.50-10	3.61-11	7.48-13	3.66-19		
2.37-10	1.09-10	1.30-10	4.54-11	1.29-11	3.97-13	3.31-19	2.35-09	4.60-10

PHI 45 TO 90 DEGREES

0.	1.22-10	2.72-12	2.39-11	1.23-12	2.77-14	1.24-30	8.00-12	6.49-12
1.23-12	5.36-11	3.55-11	1.09-10	8.03-13	8.37-15	1.52-24	7.24-12	2.86-12
4.45-10	6.77-11	1.99-11	6.26-11	1.44-12	8.42-15	5.06-19	4.64-11	4.01-11
2.75-11	1.33-10	1.32-10	6.38-11	1.80-11	6.44-13	2.30-20	1.70-11	7.24-12
1.66-11	2.73-11	2.24-10	5.56-11	6.47-11	7.75-13	2.07-23	1.35-11	5.04-12
9.65-11	1.31-11	1.17-10	2.83-11	3.00-11	1.26-12	2.33-21	1.48-11	7.64-12
1.48-11	6.33-11	6.30-11	5.48-11	5.25-10	5.03-14	4.09-23	1.66-11	7.85-12
6.50-11	1.63-10	6.03-11	4.24-11	2.48-10	3.48-13	1.60-21	2.26-11	6.91-12
4.26-11	4.23-11	1.98-11	1.24-11	2.01-09	1.47-12	1.15-20	3.75-11	2.97-11
2.56-11	1.07-11	2.97-11	4.94-11	1.46-09	2.44-14	7.73-23	2.73-11	2.16-11
1.78-10	1.57-10	1.56-10	1.07-10	6.96-10	9.35-13	1.45-19		
1.19-10	3.99-11	5.00-11	2.38-11	6.57-10	4.42-13	1.42-19	4.41-11	1.51-11

PHI 90 TO 135 DEGREES

0.	2.41-09	1.49-11	9.47-12	1.66-12	6.78-16	4.13-28	1.45-10	1.16-10
0.	1.22-10	1.16-09	8.37-11	8.61-13	6.04-15	1.19-23	5.11-11	4.21-11
0.	6.77-11	2.30-11	5.77-11	4.09-11	1.83-13	9.78-25	6.89-12	2.98-12
0.	4.22-10	2.20-10	4.08-11	2.54-11	3.78-12	1.35-23	3.47-11	2.30-11
0.	1.01-09	2.54-10	2.90-10	3.48-11	2.40-12	7.30-20	7.72-11	5.24-11
6.18-17	8.64-11	4.68-11	9.20-12	8.95-12	7.88-15	5.34-25	7.22-12	3.16-12
2.02-11	6.30-11	3.62-11	2.58-11	1.35-11	2.03-14	2.43-23	7.73-12	2.77-12
1.84-11	1.75-10	9.80-11	6.79-12	9.00-12	4.05-14	1.59-23	1.60-11	8.06-12
3.39-10	5.96-11	8.58-11	4.20-11	2.27-11	3.58-12	1.33-25	3.85-11	2.63-11
4.61-14	3.51-12	2.16-11	1.20-09	4.81-11	3.07-12	3.47-23	5.67-11	3.71-11
7.03-11	5.90-10	3.86-10	1.86-10	4.07-11	2.53-12	1.27-20		
5.08-11	2.99-10	2.11-10	7.46-11	1.84-11	1.37-12	1.11-20	6.23-11	2.05-11

PHI 135 TO 180 DEGREES

0.	6.37-09	5.61-12	6.72-11	1.29-12	1.24-15	9.35-20	3.84-10	3.82-10
0.	2.18-11	9.49-10	3.83-11	7.02-13	7.38-11	6.63-21	3.71-11	3.33-11
0.	6.98-11	1.94-11	2.26-10	4.02-10	2.06-10	1.02-21	1.82-11	9.04-12
0.	1.96-11	2.69-10	3.33-11	2.27-12	1.45-14	9.58-22	1.17-11	7.20-12
0.	3.84-11	2.00-11	2.10-11	6.62-10	3.54-15	7.54-16	1.35-11	1.02-11
5.73-12	7.14-10	1.59-11	7.73-11	5.98-11	6.86-13	2.62-21	4.67-11	3.75-11
6.83-16	3.27-11	6.51-11	8.87-11	1.39-11	4.03-13	1.76-23	6.64-12	2.05-12
1.98-13	1.32-10	1.64-11	6.76-11	1.89-11	1.77-13	4.21-23	1.05-11	6.62-12
4.92-12	1.29-10	3.71-10	1.09-10	1.66-11	3.05-13	5.05-23	2.58-11	1.34-11
4.81-12	1.80-10	9.50-12	1.74-09	6.65-11	1.21-15	2.61-19	5.44-11	3.41-11
2.19-12	6.23-10	3.55-10	2.80-10	2.50-10	6.80-11	1.31-16		
1.28-12	4.01-10	1.81-10	9.89-11	2.17-10	6.76-11	1.31-16	6.14-11	2.57-11
							3.96-09	7.49-10

AIR SCATTERING 5.04 02 ENERGY 1.20 01 ANGLE 2.00 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	0.	2.33-08	1.13-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.70-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	9.89-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	6.41-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.29-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	1.41-09	8.03-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	0.	1.49-08	7.20-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.08-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.30-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	4.19-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.21-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.78-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.71-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	7.99-21
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	8.96-10	5.74-09
	0.	0.	0.	0.	0.	0.	5.18-10	1.04-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.49-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	2.59-13
	0.	0.	0.	0.	0.	0.	0.	2.59-13

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.

13423332465 2507371000015

AIR SCATTERING 5.04 02 ENERGY 1.20 01 ANGLE 9.00 01 DIST. 3.05 02

2.10 01	1.77 03	0.	0.	4.51 04	5.00 01	1.80 03		

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	0.	0.	0.	0.	0.	0.	7.77-09	
0.	0.	0.	0.	0.	0.	0.	2.56-09	
0.	0.	0.	0.	0.	0.	0.	1.48-09	
0.	0.	0.	0.	0.	0.	0.	9.61-10	
0.	0.	0.	0.	0.	0.	0.	4.94-10	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							1.71-09	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
3.22-12	2.46-11	3.87-11	8.61-12	8.67-12	3.47-15	2.52-34	4.95-09	2.48-09
7.05-11	3.41-11	4.34-11	1.80-11	3.01-11	7.10-14	1.48-24	1.64-09	6.72-10
2.49-10	1.05-10	1.15-10	1.31-10	8.18-12	3.01-14	1.26-23	9.80-10	2.84-10
6.39-10	1.11-10	1.16-10	4.29-11	6.13-11	1.47-11	7.92-23	6.99-10	1.10-10
3.91-10	7.18-11	1.20-10	4.10-11	2.99-11	1.15-14	9.18-25	3.77-10	3.68-11
4.26-10	2.46-10	6.62-11	7.29-11	1.06-11	2.30-14	4.14-25	5.76-11	1.17-11
3.55-10	3.90-11	7.57-11	2.82-10	1.90-11	4.60-15	1.87-24	4.41-11	1.98-11
8.90-11	3.76-10	1.85-10	1.37-10	1.97-11	3.19-14	2.23-22	4.08-11	2.03-11
7.16-11	3.61-11	5.79-11	4.48-11	4.98-11	5.05-12	3.96-23	1.26-11	4.02-12
0.	1.52-11	4.56-12	1.24-11	3.85-12	7.04-16	9.47-25	1.43-12	9.34-13
5.81-10	2.47-10	1.95-10	2.09-10	5.53-11	5.72-12	9.65-23		
1.15-10	8.92-11	4.39-11	6.97-11	1.69-11	5.57-12	6.40-23	1.17-09	2.08-10

PHI 45 TO 90 DEGREES

5.12-13	4.26-10	5.81-11	2.42-11	8.97-12	1.12-14	1.24-27	2.84-11	2.50-11
3.08-11	1.46-10	9.57-12	7.72-11	6.75-12	1.35-13	3.85-23	1.38-11	7.56-12
2.28-11	6.07-11	1.36-10	8.79-11	3.71-11	4.98-14	1.87-21	1.33-11	3.42-12
4.68-11	1.02-10	5.76-10	4.84-11	4.22-12	2.90-14	1.06-21	3.23-11	1.45-11
6.58-10	6.41-11	1.63-11	2.42-11	1.65-12	4.57-14	2.11-24	6.42-11	3.44-11
5.11-11	1.41-10	8.93-11	1.23-10	4.66-11	2.43-13	7.19-21	1.99-11	7.96-12
4.94-11	3.54-11	1.49-10	1.84-10	8.69-12	2.15-13	2.36-22	1.65-11	5.36-12
3.59-12	4.57-11	4.98-11	6.45-11	3.68-11	7.55-14	2.14-23	6.96-12	2.44-12
4.87-11	6.79-11	1.07-09	4.64-11	1.33-11	5.46-14	1.85-22	4.82-11	3.88-11
6.48-12	5.07-13	2.21-12	7.01-12	4.23-11	5.33-15	4.22-31	1.50-12	7.42-13
1.76-10	1.71-10	4.95-10	1.65-10	3.88-11	1.97-13	2.21-21		
8.82-11	4.58-11	2.26-10	5.55-11	1.36-11	8.23-14	1.41-21	4.85-11	1.08-11

PHI 90 TO 135 DEGREES

9.04-14	1.22-10	5.71-10	4.27-11	1.21-11	1.18-14	1.31-28	2.91-11	1.66-11
4.73-12	1.85-11	2.98-11	6.88-11	1.49-11	3.89-15	6.92-21	4.49-12	1.53-12
3.81-14	1.27-10	7.71-11	1.75-10	1.98-11	3.93-14	1.27-19	1.49-11	5.79-12
3.58-14	9.90-10	1.82-11	9.72-11	1.91-11	2.72-13	4.95-22	6.27-11	4.95-11
1.06-14	2.21-10	1.05-10	1.08-10	8.20-12	6.02-13	1.42-26	1.98-11	9.30-12
4.89-13	6.80-10	1.63-11	3.27-11	2.75-12	1.98-13	2.72-22	4.25-11	3.73-11
4.76-12	3.53-11	4.21-11	7.54-11	1.25-11	1.42-13	4.79-22	6.06-12	1.88-12
3.03-11	2.57-10	9.00-11	5.83-11	3.21-11	1.35-11	1.25-21	2.34-11	7.31-12
4.12-14	4.27-11	1.85-11	4.03-11	1.33-11	3.84-11	3.19-22	4.92-12	1.83-12
2.70-14	1.69-10	9.44-12	6.44-12	2.56-13	3.95-14	1.02-22	1.06-11	1.01-11
1.05-11	6.22-10	1.28-10	1.65-10	3.17-11	1.40-11	3.57-20		
6.13-12	2.93-10	4.39-11	4.59-11	8.72-12	1.37-11	3.49-20	4.75-11	1.79-11

PHI 135 TO 180 DEGREES

0.	9.96-12	9.89-11	1.29-10	2.71-12	2.13-15	1.37-31	7.29-12	4.27-12
0.	5.07-11	1.34-10	6.06-10	4.05-12	1.17-13	1.87-21	2.25-11	1.40-11
0.	1.02-11	4.11-11	7.23-11	1.07-10	1.86-13	9.58-20	5.44-12	1.85-12
0.	1.01-10	9.66-12	1.43-11	5.90-12	6.00-14	2.09-22	6.86-12	4.07-12
0.	3.27-11	1.95-11	1.86-11	4.03-12	1.67-13	7.58-29	3.17-12	1.46-12
5.43-15	6.81-12	3.24-11	3.16-11	2.86-12	8.34-15	2.86-22	2.38-12	1.02-12
3.97-12	2.83-11	1.45-11	5.06-11	6.28-12	4.51-13	1.31-24	3.89-12	1.73-12
1.13-11	3.38-11	1.65-11	1.25-11	2.23-12	4.08-12	2.96-22	4.00-12	1.56-12
0.	2.36-12	6.10-11	8.85-11	8.58-12	2.70-14	1.40-25	4.59-12	2.46-12
0.	5.53-12	1.11-11	2.38-10	2.73-11	1.77-15	1.09-28	6.85-12	4.42-12
4.29-12	7.10-11	7.28-11	1.95-10	3.84-11	1.36-12	2.60-20		
3.26-12	2.52-11	2.04-11	1.01-10	1.78-11	8.37-13	2.52-20	1.25-11	3.09-12
							2.02-09	3.35-10

AIR SCATTERING 5.05 02 ENERGY 1.20 01 ANGLE 1.35 02 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	5.29-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.69-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.22-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	6.45-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	3.37-06
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.09-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	8.04-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.72-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.15-14
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	4.13-09
	0.	0.	0.	0.	0.	0.	0.	7.33-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.

25073710001 5 1664546076 25

AIR SCATTERING 5.05 02 ENERGY 1.20 01 ANGLE 1.35 02 DIST. 3.05 02

2.90 01	1.76 03	0.	0.	4.54 04	5.00 01	1.80 03	

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02	
0.	0.	0.	0.	0.	0.	0.	7.93-09
0.	0.	0.	0.	0.	0.	0.	2.54-09
0.	0.	0.	0.	0.	0.	0.	1.83-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
							9.67-10

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02	
4.06-11	3.77-11	3.65-11	6.01-12	2.43-11	6.75-14	1.84-24	5.06-09	1.67-09
1.34-09	1.04-10	9.46-11	1.15-10	8.25-11	8.49-14	5.87-20	1.77-09	2.66-10
1.37-09	9.28-11	1.09-10	5.39-11	1.81-11	6.29-14	1.10-19	2.55-10	8.35-11
1.36-10	2.44-10	4.93-11	3.03-10	1.96-11	1.85-12	4.23-20	3.63-11	1.22-11
2.72-10	1.11-10	4.00-11	4.53-11	5.54-11	8.23-12	2.78-20	3.46-11	1.41-11
1.56-10	1.46-11	8.83-11	3.07-11	2.47-11	2.34-12	1.04-25	1.94-11	9.39-12
2.19-10	2.70-11	9.96-11	3.98-11	2.04-11	9.26-14	2.55-20	2.62-11	1.16-11
8.60-13	3.06-10	9.16-12	3.27-12	4.73-11	7.90-12	1.88-21	1.97-11	9.04-12
0.	5.90-10	3.99-12	3.10-12	1.07-12	1.03-14	2.21-22	3.56-11	3.39-11
0.	1.84-12	1.33-12	6.51-12	9.52-13	3.21-15	5.56-26	3.29-13	2.14-13
7.90-10	3.40-10	1.22-10	1.63-10	6.04-11	4.61-12	6.69-20		
2.61-10	1.20-10	2.59-11	8.51-11	2.04-11	3.93-12	4.39-20	7.21-10	1.15-10

PHI 45 TO 90 DEGREES

1.09-11	4.52-10	3.66-11	2.08-11	1.29-11	2.23-12	5.28-27	3.01-11	2.48-11
6.68-11	8.21-11	6.17-11	3.87-11	4.35-11	2.08-14	2.72-20	1.39-11	3.76-12
2.06-10	6.03-11	1.95-10	5.42-11	3.92-11	4.49-14	1.95-22	3.10-11	1.24-11
9.58-11	1.07-10	6.65-11	4.17-10	2.61-11	3.65-13	2.69-22	2.83-11	1.18-11
8.59-11	1.15-10	3.48-11	8.42-11	9.39-12	1.93-13	6.25-21	1.81-11	8.69-12
1.94-11	7.85-12	5.11-11	6.85-12	2.83-11	9.75-13	1.05-20	4.65-12	1.59-12
1.90-11	6.77-11	1.30-11	1.14-10	5.13-12	5.52-15	1.34-20	1.02-11	4.23-12
2.58-16	4.86-11	9.12-11	1.19-11	1.28-11	1.44-12	3.73-22	5.48-12	2.46-12
0.	1.67-10	3.13-11	4.54-11	1.05-11	6.53-14	1.77-26	1.24-11	7.48-12
0.	4.24-11	7.63-12	1.53-11	5.30-13	2.58-15	7.08-22	2.00-12	1.04-12
1.20-10	1.80-10	1.42-10	2.23-10	4.11-11	4.03-13	1.23-20		
2.29-11	4.38-11	5.15-11	1.25-10	1.23-11	1.94-13	6.49-21	3.27-11	6.08-12

PHI 90 TO 135 DEGREES

1.25-09	1.04-11	7.44-12	1.86-11	2.05-11	3.81-15	1.70-23	1.14-10	9.43-11
2.48-11	5.42-11	3.44-11	3.64-11	1.96-11	3.70-14	3.86-22	7.89-12	2.02-12
5.49-11	9.95-11	2.30-11	7.48-11	2.68-11	7.06-13	6.04-22	1.16-11	4.42-12
5.54-12	4.79-11	4.25-11	8.49-11	1.43-11	1.09-11	8.19-19	7.25-12	2.24-12
2.82-11	4.66-11	8.29-11	7.30-11	3.78-11	1.45-13	5.26-22	1.06-11	5.87-12
0.	1.31-10	3.22-11	2.18-11	6.87-12	4.39-13	7.92-24	9.67-12	4.07-12
5.31-13	3.83-11	2.22-11	4.39-11	4.20-11	7.61-13	8.70-21	4.84-12	1.19-12
0.	8.12-11	2.00-11	1.41-11	4.28-10	5.59-14	1.35-23	1.24-11	7.68-12
1.38-12	3.31-12	1.86-10	3.27-11	4.58-12	1.19-13	6.04-20	7.88-12	6.20-12
0.	1.10-11	1.66-10	2.51-10	3.44-12	4.20-15	1.99-25	1.27-11	1.19-11
1.01-10	1.08-10	1.02-10	1.10-10	1.53-10	4.12-12	2.81-19		
6.39-11	2.72-11	4.29-11	3.01-11	1.13-10	3.53-12	2.67-19	2.42-11	6.67-12

PHI 135 TO 180 DEGREES

6.21-12	3.41-12	3.64-10	2.81-11	6.03-12	2.74-13	2.46-22	1.46-11	9.00-12
1.61-11	5.76-11	3.29-11	3.36-11	1.72-11	7.74-14	9.39-18	7.15-12	2.38-12
7.94-12	1.48-10	1.48-10	5.42-11	4.88-11	6.85-14	1.87-18	1.70-11	8.20-12
8.79-15	8.99-11	1.27-11	1.95-10	6.82-12	1.07-11	3.25-21	1.07-11	4.43-12
2.27-11	1.33-11	5.64-12	1.19-10	8.63-12	1.99-14	2.30-26	6.02-12	2.98-12
0.	1.46-12	1.72-11	8.94-11	3.51-11	3.13-13	9.28-23	3.21-12	1.47-12
6.24-13	1.75-10	2.79-10	6.94-11	2.47-11	5.90-13	3.55-20	2.27-11	1.68-11
0.	7.85-11	2.68-11	4.78-11	2.17-11	3.85-14	7.78-21	7.14-12	3.72-12
7.79-11	8.17-11	1.46-10	3.00-11	2.49-12	3.58-14	1.04-27	1.79-11	1.10-11
0.	2.32-12	2.48-11	9.30-11	3.79-11	5.56-15	1.41-25	3.83-12	2.05-12
2.29-11	1.74-10	2.00-10	1.67-10	4.27-11	3.82-12	2.14-18		
1.42-11	6.67-11	7.82-11	5.49-11	1.28-11	3.40-12	2.13-18	2.44-11	6.85-12
							1.26-09	1.85-10

AIR SCATTERING 5.06 02 ENERGY 1.20 01 ANGLE 1.80 02 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	9.00-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	5.43-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	5.73-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.22-13
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	3.46-09
	0.	0.	0.	0.	0.	0.	0.	6.06-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	4.49-12
4.00 01	0.	0.	0.	0.	0.	0.	0.	7.56-14
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.25-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.09-11
	0.	0.	0.	0.	0.	0.	0.	1.06-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.73-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.11-13
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.45-13
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.87-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.38-12
	0.	0.	0.	0.	0.	0.	0.	8.20-13

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.83-12
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.21-20
6.00 01	0.	0.	0.	0.	0.	0.	0.	5.61-14
8.00 01	0.	0.	0.	0.	0.	0.	2.82-14	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	9.21-15	1.86-13
	0.	0.	0.	0.	0.	0.	9.21-15	1.26-13

136147504665 272226362405

AIR SCATTERING 5.06 02 ENERGY 1.20 01 ANGLE 1.80 02 DIST. 3.05 02
2.80 01 1.76 03 0. 0. 4.49 04 5.00 01 1.80 03

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02	
0.	0.	0.	0.	0.	0.	0.	1.35-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							8.14-10

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
4.67-10	1.04-10	3.92-10	1.21-10	8.36-12	3.74-14	1.70-26	8.66-09	1.51-09
1.16-09	9.76-11	7.67-11	7.52-10	9.39-11	2.63-12	1.29-23	1.33-10	6.81-11
2.48-10	3.13-11	5.79-10	1.34-09	1.13-10	2.61-13	1.49-22	7.89-11	4.03-11
1.05-10	2.05-10	4.13-11	1.68-10	1.32-11	3.49-13	4.81-20	2.75-11	1.65-11
0.	1.59-12	2.93-09	5.09-12	2.97-11	2.39-13	2.71-23	1.06-10	1.01-10
6.81-11	2.29-10	1.47-10	6.72-12	4.95-12	7.31-16	6.00-21	2.54-11	1.21-11
0.	9.71-11	8.20-11	1.95-10	1.49-10	3.55-14	2.83-21	1.57-11	5.50-12
0.	1.82-10	3.78-11	4.69-11	3.76-11	6.44-15	3.44-20	1.40-11	6.70-12
0.	2.52-11	5.46-11	3.26-11	2.24-11	3.90-14	7.89-20	4.60-12	1.87-12
0.	5.37-14	8.00-12	1.33-12	2.05-11	2.83-13	0.	6.34-13	3.13-13
3.42-10	2.23-10	7.85-10	6.34-10	1.21-10	7.21-13	4.05-20		
1.60-10	6.60-11	6.31-10	3.82-10	5.37-11	4.60-13	2.60-20	6.08-10	9.98-11

PHI 45 TO 90 DEGREES

9.64-10	2.00-10	1.05-10	1.20-10	6.59-11	4.08-13	1.94-22	1.07-10	5.45-11
1.29-09	7.71-11	4.53-11	4.40-11	6.05-12	5.04-13	3.63-26	1.23-10	1.01-10
4.17-11	2.30-11	6.96-11	6.09-11	2.01-11	8.82-14	1.57-22	9.55-12	1.97-12
1.73-11	5.79-11	3.16-11	8.82-11	4.25-11	8.45-14	1.89-20	1.37-11	5.45-12
3.37-11	5.64-11	1.01-10	1.39-10	3.18-11	1.65-14	2.22-22	1.37-11	4.68-12
2.13-13	1.03-10	2.85-11	4.96-11	3.89-12	2.80-13	5.92-19	8.46-12	4.53-12
0.	6.29-11	2.42-11	7.95-11	5.38-12	1.86-13	3.37-21	6.64-12	3.33-12
0.	1.06-10	4.48-10	5.31-11	2.52-12	2.26-15	8.65-25	2.38-11	1.60-11
0.	7.84-12	2.03-09	2.12-11	1.77-11	1.22-13	3.85-25	7.44-11	7.17-11
0.	4.56-12	3.24-13	5.47-11	5.00-11	2.47-18	1.43-28	2.35-12	1.77-12
3.04-10	1.28-10	5.45-10	1.39-10	3.90-11	2.97-13	1.10-19		
1.98-10	3.04-11	4.61-10	3.39-11	1.48-11	1.15-13	1.04-19	6.03-11	2.45-11

PHI 90 TO 135 DEGREES

3.16-09	9.90-11	2.58-10	8.43-11	4.10-11	7.07-13	2.60-24	3.05-10	1.44-10
8.98-11	1.06-10	7.85-11	8.12-11	8.16-11	1.23-13	3.41-26	2.05-11	4.26-12
8.10-11	5.20-11	6.95-11	4.58-11	2.76-11	3.50-12	5.49-23	1.45-11	5.00-12
1.42-11	7.04-11	9.52-11	3.39-10	1.28-10	1.02-11	8.62-23	1.91-11	6.10-12
6.91-12	2.49-11	1.28-10	5.09-11	5.41-12	2.15-13	4.14-23	8.01-12	3.68-12
2.79-13	7.57-11	2.30-11	1.67-11	7.06-11	5.96-13	1.99-22	6.86-12	3.27-12
2.64-12	1.65-10	1.89-11	4.48-11	1.53-11	1.82-13	1.09-22	1.21-11	6.35-12
0.	3.78-11	1.52-11	2.31-11	8.69-12	3.59-13	6.19-21	3.50-12	1.60-12
0.	4.10-11	6.02-11	2.56-11	1.94-11	2.20-13	1.44-23	5.53-12	1.93-12
0.	4.57-12	2.18-13	3.35-11	9.50-12	2.40-16	3.33-27	1.23-12	8.30-13
2.34-10	1.50-10	1.26-10	1.81-10	9.01-11	4.66-12	1.77-21		
9.77-11	3.91-11	3.14-11	7.25-11	3.42-11	4.26-12	1.65-21	4.05-11	9.58-12

PHI 135 TO 180 DEGREES

5.18-10	1.41-10	1.63-10	1.26-10	2.44-11	1.22-14	3.03-24	6.48-11	1.55-11
5.87-10	4.96-11	1.10-10	4.12-11	4.65-12	2.71-13	1.84-23	6.08-11	3.89-11
8.29-11	1.66-10	1.88-10	1.28-10	7.79-11	5.76-14	4.37-22	2.84-11	1.03-11
4.96-11	8.61-11	4.54-11	1.90-11	1.61-11	3.68-12	1.63-19	1.20-11	3.84-12
3.49-14	1.70-11	9.68-11	1.57-11	1.82-12	2.43-12	5.93-19	4.93-12	2.14-12
9.45-15	4.71-11	8.51-12	4.96-11	6.87-12	4.29-14	1.19-18	4.43-12	1.59-12
1.75-12	1.91-11	4.19-11	9.34-11	2.08-11	5.29-13	4.24-17	5.37-12	1.77-12
4.72-13	1.48-10	6.12-11	1.14-10	7.65-12	3.31-13	7.56-22	1.40-11	5.38-12
0.	1.55-10	1.36-11	8.52-14	1.04-11	9.39-12	9.66-29	1.00-11	8.50-12
0.	0.	1.64-10	3.11-12	8.59-12	2.34-12	0.	6.14-12	5.90-12
1.72-10	1.73-10	1.54-10	1.28-10	4.09-11	3.73-12	1.42-17		
7.70-11	4.90-11	3.43-11	3.89-11	1.87-11	2.37-12	1.41-17	3.52-11	8.21-12
							1.17-09	1.67-10

AIR SCATTERING 5.07 02 ENERGY 7.00 ANGLE 1.00 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	5.38-06	7.93-06	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	7.77-06	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	6.22-06
	3.24-07	4.78-07	0.	0.	0.	0.	2.54-06	3.75-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	3.42-06	5.05-06	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	4.95-06	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.64-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	8.78-11
1.80 02	0.	0.	0.	0.	0.	0.	1.25-20	3.96-06
	2.07-07	3.04-07	0.	0.	0.	0.	1.61-06	2.39-07
	9.61-08	3.04-07	0.	0.	0.	0.	1.61-06	1.45-07

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	7.21-12
1.60 02	0.	0.	0.	0.	0.	0.	4.20-13	1.06-10
1.80 02	0.	0.	0.	0.	0.	0.	1.25-11	6.03-09
	0.	0.	0.	0.	0.	0.	8.28-13	4.38-10
	0.	0.	0.	0.	0.	0.	7.58-13	2.27-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	4.82-13	5.89-12
1.40 02	0.	0.	0.	0.	0.	0.	3.20-12	1.22-12
1.60 02	0.	0.	0.	0.	0.	0.	2.90-11	2.53-10
1.80 02	0.	0.	0.	0.	0.	9.57-15	7.49-13	3.47-10
	0.	0.	0.	0.	0.	5.77-16	6.09-12	6.71-11
	0.	0.	0.	0.	0.	5.77-16	4.06-12	2.34-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	1.51-12	5.88-14	3.40-14
1.60 02	0.	0.	0.	0.	0.	0.	5.78-13	1.07-10
1.80 02	0.	0.	0.	0.	0.	7.58-16	3.33-13	4.29-09
	0.	0.	0.	0.	0.	4.01-13	1.36-13	2.77-10
	0.	0.	0.	0.	0.	4.01-13	9.67-14	2.02-10

151621752331 160175276465

AIR SCATTERING 5.07 02 ENERGY 7.00 ANGLE 1.00 DIST. 3.05 02
2.90 01 1.76 03 0. 0. 4.76 04 5.00 01 1.80 03

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	2.53-05
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.40-06
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	6.22-07
0.	0.	0.	0.	0.	0.	0.	2.02-06

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
0.	5.04-11	2.55-12	3.38-12	3.48-11	4.85-14	1.76-23	1.61-05	8.55-06
0.	1.03-10	4.42-11	4.28-10	5.09-12	2.15-15	9.25-33	1.52-11	8.89-12
0.	1.15-10	1.45-10	1.05-10	2.40-11	4.21-15	4.45-28	1.28-11	5.12-12
3.62-11	3.93-11	2.55-10	1.96-10	1.76-11	1.13-13	1.00-19	1.71-11	7.30-12
6.29-12	1.91-11	9.96-11	5.61-11	2.03-11	2.03-14	2.96-26	6.03-12	2.03-12
1.07-11	9.62-11	2.80-11	3.19-11	1.55-11	1.09-13	3.67-25	7.41-12	2.61-12
5.57-11	8.43-11	2.32-10	3.17-10	2.16-11	1.50-12	1.74-23	8.91-07	8.90-07
1.35-09	1.34-10	1.05-10	1.75-10	1.41-10	9.39-13	2.96-25	1.24-10	6.95-11
3.01-10	2.54-10	3.25-10	1.01-10	1.00-10	6.74-12	5.33-26	5.93-11	1.47-11
3.45-10	7.51-11	1.71-10	7.40-11	3.94-10	2.24-12	1.61-27	3.96-07	2.40-07
4.65-10	1.96-10	3.22-10	3.54-10	1.07-10	2.11-12	3.27-20		
2.32-10	3.82-11	1.03-10	1.57-10	4.73-11	1.26-12	3.26-20	1.29-06	5.92-07

PHI 45 TO 90 DEGREES

0.	1.41-11	2.17-11	6.96-12	1.44-11	9.15-14	4.64-25	1.72-12	9.31-13
0.	1.53-10	2.99-11	6.91-11	5.25-11	5.20-13	6.56-28	1.07-11	4.49-12
1.42-10	1.24-10	1.36-09	4.89-11	6.25-12	4.96-14	8.63-25	6.21-11	4.23-11
3.54-12	3.13-11	3.74-11	3.45-11	6.84-12	5.53-14	5.58-20	3.82-12	1.24-12
8.42-11	2.14-10	1.88-11	6.15-11	1.32-11	8.90-15	1.75-29	1.94-11	7.64-12
7.28-11	1.46-11	2.23-11	8.52-11	3.64-13	2.13-14	3.66-23	8.98-12	4.71-12
6.38-11	6.00-11	9.83-11	1.76-10	2.28-11	2.90-13	1.44-22	1.51-11	4.11-12
3.24-09	1.61-10	8.42-11	2.89-09	3.47-11	4.64-13	3.56-24	3.25-10	2.06-10
1.06-09	6.35-10	5.54-10	3.05-10	3.75-11	1.11-13	2.09-22	1.52-10	6.42-11
2.72-10	7.28-11	1.33-10	4.40-11	2.62-12	7.31-15	3.81-28	7.25-10	3.76-10
1.15-09	2.87-10	5.46-10	8.90-10	3.96-11	3.65-13	1.83-20		
6.75-10	8.17-11	3.42-10	7.06-10	1.23-11	1.77-13	1.82-20	1.86-10	6.19-11

PHI 90 TO 135 DEGREES

0.	2.10-11	9.64-12	7.60-12	6.19-11	7.08-17	3.27-29	2.32-12	1.19-12
1.08-11	8.25-11	6.63-11	2.98-11	2.39-11	4.86-13	4.74-21	8.02-12	2.94-12
1.78-12	3.62-09	1.53-11	6.24-11	1.79-11	9.23-15	1.69-24	1.83-10	1.56-10
9.30-12	3.27-10	5.02-11	3.11-11	3.69-12	1.72-14	5.60-25	1.94-11	1.18-11
9.85-11	2.24-09	3.43-11	1.76-10	1.33-12	6.83-16	7.19-27	1.24-10	1.12-10
1.05-11	1.97-10	1.47-10	3.05-11	3.18-12	1.71-14	3.34-34	1.61-11	1.04-11
4.94-10	1.32-10	1.33-10	3.00-10	1.02-11	2.21-13	2.82-19	5.72-11	2.37-11
2.15-10	3.91-10	5.11-10	3.22-11	1.59-11	3.18-14	2.10-23	5.47-11	2.43-11
2.09-10	2.50-10	1.17-09	4.23-10	9.27-12	9.72-15	7.19-27	1.06-10	3.60-11
2.24-10	3.91-10	2.71-10	5.68-11	1.89-12	1.05-14	1.22-24	8.22-11	2.36-11
2.93-10	1.72-09	4.64-10	2.51-10	2.39-11	1.79-13	9.27-20		
9.79-11	9.37-10	1.93-10	1.16-10	7.22-12	9.67-14	9.19-20	1.37-10	5.01-11

PHI 135 TO 180 DEGREES

0.	1.60-11	7.59-12	5.90-11	2.13-12	8.85-20	7.94-26	2.25-12	1.18-12
1.57-12	1.01-10	6.25-11	1.54-10	1.61-11	3.56-14	1.19-21	1.05-11	4.70-12
1.51-11	8.74-11	2.43-10	1.02-10	5.35-11	4.38-14	2.53-24	1.53-11	6.19-12
1.21-11	2.49-11	1.63-11	5.42-11	9.18-12	4.92-14	2.37-22	3.94-12	9.78-13
1.13-11	1.06-10	8.01-11	4.93-10	5.48-12	2.95-13	1.69-23	1.87-11	1.01-11
5.83-11	1.21-10	5.83-11	3.75-11	1.43-11	2.04-14	6.57-25	1.35-11	5.87-12
1.60-10	8.02-11	9.31-11	4.08-11	3.58-12	1.17-13	7.71-22	2.06-11	1.16-11
7.09-11	1.35-10	6.14-11	6.25-10	6.96-10	6.01-13	3.08-25	3.64-11	1.98-11
1.19-09	3.76-11	1.02-10	1.93-11	1.06-10	3.59-15	2.50-20	1.13-10	8.22-11
5.53-11	1.28-10	2.56-11	1.43-10	3.79-12	6.23-13	4.19-23	4.44-10	3.35-10
3.01-10	1.55-10	1.71-10	3.75-10	2.29-10	3.25-13	4.88-21		
1.81-10	4.20-11	4.80-11	1.57-10	1.82-10	1.32-13	4.35-21	7.57-11	2.59-11
							2.02-06	9.29-07

AIR SCATTERING 5.08 02 ENERGY 7.00 ANGLE 1.50 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	2.05-08	1.98-07	1.86-07	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	7.03-08	6.04-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	3.76-08	4.56-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	3.18-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	7.99-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	6.08-08	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	7.50-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	9.45-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.21-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	6.09-08
	1.24-09	1.19-08	1.12-08	1.22-08	2.05-08	2.25-08	2.44-08	7.43-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	1.31-08	1.26-07	1.19-07	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	4.47-08	3.85-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	2.39-08	2.90-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	2.03-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	5.09-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	3.87-08	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.77-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	6.02-08
1.60 02	0.	0.	0.	0.	0.	0.	6.61-15	7.76-08
1.80 02	0.	0.	0.	0.	0.	2.09-12	1.76-11	4.39-08
	7.88-10	7.59-09	7.15-09	7.77-09	1.30-08	1.43-08	1.56-08	4.77-08
	7.88-10	3.39-09	4.12-09	5.49-09	9.22-09	1.02-08	1.11-08	1.38-08

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	2.08-14	6.67-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	7.29-11
1.80 02	0.	0.	0.	0.	0.	0.	8.11-15	2.18-09
	0.	0.	0.	0.	0.	0.	6.03-15	1.46-10
	0.	0.	0.	0.	0.	0.	5.55-15	6.11-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	9.99-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	7.68-11
1.60 02	0.	0.	0.	0.	0.	0.	7.57-12	9.96-12
1.80 02	0.	0.	0.	0.	0.	2.60-15	1.42-12	3.14-11
	0.	0.	0.	0.	0.	1.57-16	1.40-12	2.73-11
	0.	0.	0.	0.	0.	1.57-16	1.32-12	1.81-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	8.67-12	2.17-12
1.80 02	0.	0.	0.	0.	0.	0.	1.10-10	4.29-11
	0.	0.	0.	0.	0.	0.	8.14-12	2.96-12
	0.	0.	0.	0.	0.	0.	3.88-12	1.64-12

160175276465 041626106465

AIR SCATTERING 5.08 02 ENERGY 7.00 ANGLE 1.50 01 DIST. 3.05 02
2.00 01 1.77 03 0. 0. 4.80 04 5.00 01 1.80 03

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	5.53-07
0.	0.	0.	0.	0.	0.	0.	7.34-08
0.	0.	0.	0.	0.	0.	0.	2.87-08
0.	0.	0.	0.	0.	0.	0.	9.55-09
0.	0.	0.	0.	0.	0.	0.	1.44-08
0.	0.	0.	0.	0.	0.	0.	1.09-08
0.	0.	0.	0.	0.	0.	0.	7.50-09
0.	0.	0.	0.	0.	0.	0.	9.45-09
0.	0.	0.	0.	0.	0.	0.	1.21-08
0.	0.	0.	0.	0.	0.	0.	6.09-09
0.	0.	0.	0.	0.	0.	0.	6.87-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
0.	1.40-11	6.67-11	8.60-11	8.55-12	3.12-16	4.40-35	3.52-07	1.18-07
1.74-11	3.48-11	7.42-10	3.29-11	2.18-12	3.74-13	2.72-27	4.67-08	2.69-08
7.97-11	2.31-10	1.29-10	2.53-10	1.79-12	5.02-14	2.25-26	1.83-08	1.29-08
7.67-11	5.74-11	5.76-11	7.33-11	3.91-11	1.40-13	1.12-25	6.09-09	6.08-09
3.26-10	2.52-10	8.08-11	7.17-11	1.84-12	1.05-14	1.30-24	9.20-09	9.15-09
7.05-11	2.45-10	9.54-11	7.51-11	5.40-12	2.45-14	2.15-22	6.98-09	6.96-09
1.02-10	9.00-11	1.56-10	9.90-11	8.28-12	2.42-13	2.49-27	4.79-09	3.41-09
4.63-10	1.01-10	2.67-07	7.58-11	9.44-12	1.18-13	9.63-28	1.46-08	9.00-09
1.78-09	1.34-09	2.45-10	1.32-10	3.82-11	2.41-13	4.11-25	7.98-09	1.81-09
1.82-09	1.72-10	6.72-10	3.59-11	4.74-12	2.61-14	6.80-25	4.57-09	5.68-10
6.93-10	4.72-10	7.14-08	2.05-10	2.75-11	2.84-13	3.77-23		
2.98-10	1.48-10	7.11-08	6.90-11	1.05-11	1.05-13	2.65-23	4.61-08	9.91-09

PHI 45 TO 90 DEGREES

0.	1.10-09	3.41-11	4.81-11	5.93-12	6.41-16	2.29-28	5.71-11	4.66-11
0.	1.26-10	1.15-10	3.98-11	6.45-12	8.59-14	6.16-23	1.09-11	4.59-12
1.06-13	1.26-10	1.12-10	3.24-11	1.43-11	1.02-14	3.45-25	1.07-11	4.03-12
6.05-11	5.98-11	6.37-11	3.41-10	5.85-12	4.38-15	3.62-25	1.68-11	7.37-12
8.98-11	1.71-11	1.80-10	8.51-11	2.45-11	7.96-14	1.39-23	1.58-11	4.73-12
1.57-10	3.70-10	1.87-11	2.75-09	8.05-11	9.69-14	5.91-21	8.76-11	5.42-11
7.56-11	1.22-10	1.04-10	1.54-10	4.04-10	1.92-12	1.02-22	2.38-11	7.85-12
3.43-10	4.36-10	2.31-10	7.39-10	1.10-09	1.15-13	3.60-24	8.64-11	2.49-11
1.05-09	1.24-10	1.76-10	2.99-10	1.41-10	4.68-13	6.91-22	1.11-10	5.24-11
5.98-10	1.01-09	1.05-10	8.11-11	8.22-12	4.27-13	3.13-27	3.22-10	1.17-10
3.98-10	4.47-10	2.39-10	9.25-10	4.75-10	8.14-13	1.19-21		
1.25-10	1.24-10	6.07-11	5.72-10	3.15-10	6.04-13	1.06-21	1.01-10	1.93-11

PHI 90 TO 135 DEGREES

0.	8.57-11	1.10-10	2.68-11	1.86-12	8.58-16	3.70-27	8.37-12	3.97-12
0.	1.23-08	3.61-11	4.32-11	2.14-11	1.42-14	1.39-26	6.18-10	6.13-10
0.	1.33-10	7.96-12	1.76-10	1.11-11	1.30-13	8.95-24	1.06-11	3.49-12
6.84-10	8.41-11	1.54-10	1.92-10	9.78-11	2.40-14	4.82-26	6.89-11	3.80-11
2.67-10	8.60-11	4.94-11	9.16-11	9.53-11	2.25-13	1.30-24	3.03-11	1.98-11
1.27-11	1.05-11	1.75-11	1.01-11	3.13-11	3.34-13	8.82-28	2.71-12	6.26-13
1.86-09	6.58-11	1.90-10	1.70-10	1.35-11	1.20-12	1.56-24	1.62-10	1.36-10
1.71-10	3.24-10	4.30-10	1.78-10	3.54-11	4.42-12	3.22-24	5.54-11	2.92-11
3.43-10	4.59-10	3.40-10	1.86-10	4.99-11	1.27-13	3.97-25	6.80-11	1.96-11
7.80-10	3.69-11	1.33-10	7.30-10	2.13-11	1.74-13	1.80-25	8.67-11	5.39-11
1.03-09	2.41-09	3.20-10	3.16-10	8.44-11	1.74-12	4.07-24		
5.84-10	2.13-09	1.58-10	8.19-11	3.10-11	1.21-12	2.61-24	2.24-10	1.17-10

PHI 135 TO 180 DEGREES

0.	3.82-11	1.56-09	1.28-10	3.11-12	4.12-15	3.36-29	5.44-11	4.89-11
7.05-12	4.08-11	7.71-11	1.50-11	3.25-12	1.86-14	9.15-29	4.93-12	2.35-12
2.47-13	2.19-10	1.04-10	3.87-11	2.17-12	5.05-13	3.32-29	1.51-11	9.43-12
4.32-12	1.78-10	4.82-10	2.70-11	7.17-12	1.48-14	5.66-25	2.53-11	1.47-11
1.53-10	2.60-10	3.74-11	4.84-11	1.56-11	9.68-14	3.45-25	2.76-11	1.36-11
1.21-11	1.06-10	5.31-10	3.26-10	3.50-11	5.26-14	3.37-29	3.02-11	1.66-11
7.31-11	1.40-10	1.66-10	2.70-10	1.47-10	2.04-13	1.94-26	2.55-11	9.24-12
3.73-10	2.17-11	6.56-11	2.34-10	1.23-11	5.71-14	2.39-25	3.79-11	1.39-11
1.77-10	4.12-10	4.07-11	2.09-10	3.88-11	1.16-11	1.09-20	4.27-11	1.81-11
2.59-09	2.47-10	1.18-10	1.39-10	7.10-12	8.76-15	1.00-27	2.50-10	1.35-10
3.40-10	3.27-10	4.77-10	2.90-10	7.09-11	2.26-12	1.90-21		
1.13-10	1.00-10	2.05-10	1.09-10	4.59-11	2.01-12	1.90-21	6.74-11	1.29-11
							7.30-08	1.56-08

AIR SCATTERING 5.09 02 ENERGY 7.00 ANGLE 3.00 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	5.09-08	1.07-07	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	3.13-08	1.98-08	0.	0.
6.00 01	0.	0.	0.	0.	0.	3.41-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	3.39-08	0.
9.00 01	0.	0.	0.	0.	0.	0.	2.96-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.90-08
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.87-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	4.26-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.19-08
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	3.07-09	6.47-09	5.43-09	1.25-08	1.62-08	3.45-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	3.24-08	6.83-08	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	1.99-08	1.26-08	0.	0.
6.00 01	0.	0.	0.	0.	0.	2.17-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	2.16-08	0.
9.00 01	0.	0.	0.	0.	0.	0.	1.89-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.48-08
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.46-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.93-08
1.60 02	0.	0.	0.	0.	0.	0.	3.35-12	1.53-08
1.80 02	0.	0.	0.	0.	0.	1.50-17	1.08-14	2.10-10
	0.	0.	1.95-09	4.12-09	3.46-09	7.96-09	1.03-08	2.28-08
	0.	0.	1.13-09	2.06-09	2.44-09	3.99-09	4.70-09	4.76-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.19-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.79-12
1.60 02	0.	0.	0.	0.	0.	3.62-12	1.48-15	3.22-11
1.80 02	0.	0.	0.	0.	0.	0.	1.35-12	2.04-10
	0.	0.	0.	0.	0.	6.29-13	8.17-14	1.99-11
	0.	0.	0.	0.	0.	6.29-13	7.03-14	1.27-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.82-15
1.60 02	0.	0.	0.	0.	0.	0.	1.26-12	4.32-13
1.80 02	0.	0.	0.	0.	0.	0.	2.05-12	8.97-13
	0.	0.	0.	0.	0.	0.	3.43-13	1.30-13
	0.	0.	0.	0.	0.	0.	2.52-13	6.99-14

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	5.41-12	2.16-14
1.80 02	0.	0.	0.	0.	0.	0.	3.85-12	8.45-13
	0.	0.	0.	0.	0.	0.	1.17-12	5.47-14
	0.	0.	0.	0.	0.	0.	9.68-13	5.10-14

041626106465 225221161315

AIR SCATTERING 5.09 02 ENERGY 7.00 ANGLE 3.00 01 DIST. 3.05 02
2.70 01 1.76 03 0. 0. 4.75 04 5.00 01 1.80 03

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	1.31-07
0.	0.	0.	0.	0.	0.	0.	1.84-08
0.	0.	0.	0.	0.	0.	0.	1.02-08
0.	0.	0.	0.	0.	0.	0.	6.11-09
0.	0.	0.	0.	0.	0.	0.	5.33-09
0.	0.	0.	0.	0.	0.	0.	3.90-09
0.	0.	0.	0.	0.	0.	0.	3.87-09
0.	0.	0.	0.	0.	0.	0.	4.26-09
0.	0.	0.	0.	0.	0.	0.	2.19-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							2.02-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
3.44-13	1.66-10	2.33-11	6.27-13	4.19-12	1.88-14	1.21-26	8.35-08	3.15-08
2.58-12	1.25-11	4.97-11	4.69-11	5.27-11	1.02-13	7.08-28	1.17-08	6.77-09
2.22-10	6.82-11	1.43-10	7.14-11	1.67-11	3.22-13	3.47-25	6.54-09	3.77-09
7.09-10	1.51-10	9.05-11	1.78-10	3.70-11	6.24-14	1.20-23	3.96-09	2.26-09
2.15-10	1.19-09	1.11-10	1.33-10	2.27-11	6.94-14	2.06-24	3.48-09	2.41-09
1.45-10	4.55-11	2.95-10	9.53-11	1.92-11	3.20-14	7.45-24	2.51-09	1.76-09
1.15-09	1.92-10	2.39-10	2.29-10	4.89-11	1.82-13	5.27-22	2.58-09	9.66-10
4.29-10	1.33-10	2.80-10	1.63-10	2.92-11	1.93-13	7.18-23	2.98-09	6.19-10
3.27-10	3.98-10	1.85-10	7.12-11	8.60-12	3.29-14	1.71-26	1.59-09	1.59-10
2.93-10	1.92-10	3.09-10	4.96-11	7.87-11	1.43-16	3.60-28	6.60-11	1.72-11
9.17-10	4.73-10	3.51-10	2.58-10	6.32-11	2.59-13	1.97-22		
3.02-10	1.81-10	7.17-11	7.45-11	1.87-11	9.57-14	1.35-22	1.31-08	2.62-09

PHI 45 TO 90 DEGREES

0.	5.04-10	6.54-10	1.21-11	1.09-13	1.21-15	9.59-32	4.64-11	2.90-11
1.43-11	1.48-10	1.14-10	1.47-11	5.99-12	4.42-15	9.29-25	1.25-11	5.05-12
8.11-10	6.30-11	6.06-11	1.20-09	3.41-12	1.20-14	3.52-23	9.39-11	5.91-11
4.95-11	2.34-10	8.37-11	8.59-10	2.43-11	3.16-15	1.78-23	3.58-11	1.71-11
9.94-12	6.20-11	1.41-10	1.05-10	2.40-11	1.39-14	4.49-23	1.08-11	3.70-12
6.94-11	1.50-11	2.44-09	3.01-11	5.50-12	4.44-14	5.86-23	8.52-11	7.75-11
4.01-10	2.41-10	1.22-10	3.22-11	2.25-11	8.56-12	3.84-23	4.93-11	2.08-11
3.16-10	3.41-10	1.42-10	1.23-10	9.27-11	1.31-13	2.43-26	5.09-11	1.39-11
1.30-10	6.52-10	1.21-10	2.46-11	4.80-11	1.23-13	2.66-25	5.23-11	2.92-11
5.24-11	4.70-11	6.28-11	6.96-11	3.88-11	2.27-14	2.90-24	3.11-11	2.01-11
4.89-10	4.48-10	6.54-10	6.77-10	5.77-11	2.87-12	4.61-23		
2.01-10	1.30-10	4.23-10	4.04-10	2.04-11	2.59-12	2.47-23	9.89-11	2.49-11

PHI 90 TO 135 DEGREES

1.34-11	1.13-10	2.20-11	2.24-12	4.66-11	1.46-14	0.	8.09-12	2.92-12
0.	1.50-10	1.65-11	1.02-11	4.36-13	1.03-13	1.15-24	8.26-12	3.70-12
1.64-10	1.60-10	1.37-10	2.92-11	2.69-11	5.12-14	8.94-29	2.64-11	1.45-11
7.47-11	2.45-10	4.54-11	4.82-11	7.65-12	9.38-12	2.02-20	2.09-11	5.90-12
3.48-10	8.37-11	7.21-11	9.62-12	6.53-11	1.71-11	3.05-23	3.55-11	1.51-11
1.55-10	8.46-11	2.64-10	6.03-12	1.15-10	7.68-14	3.00-24	2.67-11	1.32-11
1.06-11	2.89-11	6.26-11	2.47-10	1.75-11	6.69-14	6.71-22	9.45-12	4.24-12
3.10-09	1.02-10	6.24-11	1.59-10	6.03-11	2.40-13	2.42-24	2.59-10	2.16-10
1.53-11	7.18-10	1.41-10	6.36-11	5.69-11	9.53-12	8.94-30	4.40-11	2.98-11
1.33-10	2.03-09	1.43-10	4.80-11	3.55-12	4.35-15	3.89-28	1.18-10	8.00-11
9.94-10	4.69-10	1.84-10	1.65-10	7.57-11	7.82-12	6.82-21		
7.21-10	1.48-10	5.47-11	7.64-11	2.99-11	4.12-12	6.59-21	1.13-10	5.84-11

PHI 135 TO 180 DEGREES

0.	3.21-09	4.02-11	5.38-12	1.45-11	9.27-12	2.88-25	1.62-10	1.53-10
2.89-12	1.17-10	2.75-11	1.69-11	2.58-11	9.44-14	1.14-26	7.64-12	3.25-12
5.74-11	9.57-10	1.52-11	7.77-11	5.22-12	2.20-14	1.40-25	5.45-11	3.68-11
2.82-10	2.78-10	2.86-11	4.51-10	4.63-10	2.24-13	4.83-20	5.24-11	2.75-11
4.04-12	4.93-10	2.98-11	4.05-10	9.62-13	6.07-12	8.10-24	3.41-11	2.71-11
4.63-11	8.13-11	4.78-10	1.86-11	1.65-11	2.35-14	1.69-25	2.36-11	1.50-11
1.45-10	1.63-10	1.18-10	2.77-11	7.80-11	6.10-12	6.12-25	2.52-11	9.18-12
8.63-10	1.49-10	4.33-11	9.69-11	1.56-11	9.27-14	4.71-23	8.00-11	6.39-11
1.41-10	9.09-11	7.64-11	1.26-10	6.25-10	2.32-13	2.68-22	2.99-11	1.20-11
1.65-10	2.56-11	2.51-10	2.45-11	2.07-11	1.08-13	5.80-25	2.41-11	1.22-11
4.28-10	7.69-10	1.87-10	3.03-10	3.00-10	3.77-12	1.58-20		
2.35-10	2.94-10	1.04-10	1.51-10	1.82-10	3.05-12	1.27-20	8.89-11	2.54-11
							2.10-08	4.13-09

AIR SCATTERING 5.10 02 ENERGY 7.00 ANGLE 6.00 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	1.42-08	7.00-08	0.	0.
4.00 01	0.	0.	0.	0.	0.	1.06-08	2.27-08	0.
6.00 01	0.	0.	0.	0.	0.	0.	1.80-08	0.
8.00 01	0.	0.	0.	0.	0.	0.	2.24-09	2.19-08
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.90-08
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.91-08
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.44-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	8.57-10	6.06-09	9.46-09	1.85-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	9.05-09	4.46-08	0.	0.
4.00 01	0.	0.	0.	0.	0.	6.75-09	1.44-08	0.
6.00 01	0.	0.	0.	0.	0.	0.	1.15-08	0.
8.00 01	0.	0.	0.	0.	0.	0.	1.42-09	1.39-08
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.21-08
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.22-08
1.20 02	0.	0.	0.	0.	0.	0.	1.58-22	1.05-08
1.40 02	0.	0.	0.	0.	0.	0.	2.12-12	2.31-10
1.60 02	0.	0.	0.	0.	0.	0.	5.16-12	1.19-11
1.80 02	0.	0.	0.	0.	0.	0.	1.21-14	4.90-11
	0.	0.	0.	0.	5.46-10	3.86-09	6.03-09	1.23-08
	0.	0.	0.	0.	5.46-10	1.58-09	2.05-09	1.94-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	1.01-11	6.45-15
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.83-15
1.60 02	0.	0.	0.	0.	0.	0.	7.08-12	6.88-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.61-13
	0.	0.	0.	0.	0.	0.	4.52-12	1.21-12
	0.	0.	0.	0.	0.	0.	3.48-12	9.63-13

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	5.67-16
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.44-12
	0.	0.	0.	0.	0.	0.	0.	8.72-14
	0.	0.	0.	0.	0.	0.	0.	8.71-14

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	8.04-14
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	2.14-14
	0.	0.	0.	0.	0.	0.	0.	2.14-14

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AIR SCATTERING 5.10 02 ENERGY 7.00 ANGLE 6.00 01 DIST. 3.05 02
3.00 01 1.76 03 0. 0. 4.79 04 5.00 01 1.80 03

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	2.67-08
0.	0.	0.	0.	0.	0.	0.	7.26-09
0.	0.	0.	0.	0.	0.	0.	3.25-09
0.	0.	0.	0.	0.	0.	0.	2.59-09
0.	0.	0.	0.	0.	0.	0.	1.90-09
0.	0.	0.	0.	0.	0.	0.	1.91-09
0.	0.	0.	0.	0.	0.	0.	1.44-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							5.71-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
3.38-11	4.20-11	1.04-10	4.40-10	5.20-11	8.45-14	1.70-27	1.70-08	7.60-09
5.02-11	1.09-10	4.92-11	2.88-11	8.92-11	1.03-14	1.17-27	4.64-09	2.07-09
1.15-10	8.17-11	2.36-11	9.64-11	4.13-12	1.90-13	1.20-25	2.08-09	9.30-10
5.04-10	5.97-11	8.08-11	5.13-11	1.52-11	1.16-12	5.90-19	1.69-09	5.63-10
6.89-10	4.01-10	5.37-11	8.12-11	2.15-10	1.23-13	4.91-23	1.28-09	4.64-10
6.60-10	4.08-10	4.52-10	2.35-10	1.52-11	1.50-13	4.06-22	1.29-09	3.36-10
8.46-10	1.27-10	2.64-10	3.67-10	1.60-11	4.75-13	1.91-22	1.14-09	1.38-10
2.17-10	1.06-09	3.10-10	6.23-11	1.04-10	3.31-11	5.77-23	1.08-10	3.93-11
2.47-10	2.51-10	1.44-10	2.45-10	7.72-11	1.61-13	3.14-24	4.49-11	1.41-11
5.66-11	1.79-09	6.64-11	2.51-11	1.21-11	6.44-12	1.04-29	1.02-10	8.94-11
8.17-10	6.16-10	2.98-10	3.09-10	1.12-10	9.85-12	1.93-19		
1.09-10	2.38-10	5.61-11	8.91-11	4.54-11	8.99-12	1.92-19	3.80-09	6.64-10

PHI 45 TO 90 DEGREES

3.62-13	3.76-11	1.95-11	5.39-11	1.51-11	7.13-14	1.50-25	3.79-12	2.21-12
2.21-09	1.06-10	1.70-10	3.12-10	1.16-11	1.43-13	1.25-28	1.94-10	1.76-10
9.47-11	1.24-10	2.54-11	1.07-11	3.35-11	6.77-14	1.13-22	1.52-11	6.28-12
2.29-10	1.18-10	1.69-11	1.14-09	1.86-11	1.49-12	1.13-25	4.78-11	2.02-11
1.05-10	1.36-10	7.13-11	7.33-10	7.75-11	2.81-13	2.74-27	3.30-11	1.47-11
2.87-11	8.43-11	9.49-11	3.94-10	1.52-10	4.26-13	1.09-23	1.94-11	6.45-12
1.24-09	7.41-11	1.24-10	2.32-10	1.74-10	3.93-14	1.35-25	1.16-10	9.07-11
1.25-10	7.35-11	3.48-10	7.19-10	2.09-09	3.11-14	3.95-23	6.64-11	2.84-11
3.66-10	7.13-11	1.21-10	1.63-10	1.76-10	1.73-13	1.55-22	4.42-11	2.56-11
3.85-10	2.16-10	1.73-10	1.98-10	5.59-12	1.46-16	8.78-26	4.82-11	2.64-11
1.03-09	1.99-10	2.36-10	9.71-10	7.02-10	6.83-13	7.00-23		
5.35-10	4.81-11	7.99-11	3.62-10	4.13-10	5.26-13	3.92-23	1.29-10	4.51-11

PHI 90 TO 135 DEGREES

0.	4.56-12	3.86-12	1.03-09	1.72-12	8.96-17	5.76-22	2.09-11	2.05-11
3.33-12	2.58-11	1.07-10	8.86-12	2.08-12	6.12-15	5.05-20	5.19-12	2.69-12
1.65-13	8.52-11	5.32-12	1.93-10	8.41-12	1.31-14	1.43-25	8.41-12	4.53-12
3.21-11	1.40-09	6.90-11	2.86-11	1.26-11	1.86-14	1.17-24	7.56-11	6.82-11
1.42-11	9.17-11	5.15-11	3.76-11	1.57-11	2.14-15	1.63-23	8.33-12	3.98-12
1.75-10	2.67-10	7.06-10	5.26-11	1.29-10	1.27-12	3.44-28	5.27-11	1.92-11
5.70-12	1.18-10	9.22-11	4.63-11	3.85-11	3.69-13	7.83-24	1.07-11	5.19-12
7.82-11	9.36-11	1.09-10	7.17-11	6.12-10	1.03-13	1.51-24	2.38-11	9.32-12
2.11-10	2.60-11	7.82-10	9.79-11	4.14-11	6.10-12	4.28-22	4.51-11	2.25-11
4.56-10	1.11-11	9.35-12	8.25-11	1.57-10	8.54-16	7.54-25	4.12-11	2.18-11
1.31-10	6.15-10	3.66-10	1.96-10	2.24-10	1.44-12	8.88-21		
3.95-11	4.77-10	1.31-10	1.08-10	1.61-10	1.01-12	8.80-21	5.98-11	2.48-11

PHI 135 TO 180 DEGREES

4.12-11	2.49-10	3.63-10	4.56-11	4.52-12	2.68-15	2.58-27	2.84-11	1.48-11
0.	1.87-10	1.25-11	1.09-11	7.95-12	1.90-14	3.31-25	1.01-11	5.84-12
0.	7.17-11	2.48-10	2.38-11	5.99-13	9.54-14	6.57-26	1.20-11	5.37-12
0.	7.64-11	2.73-11	1.15-10	1.21-10	1.49-13	1.32-24	8.58-12	3.49-12
3.65-11	1.22-11	4.79-11	1.27-10	2.04-10	9.32-14	2.72-30	1.02-11	5.02-12
0.	5.12-11	1.87-10	1.07-09	1.97-11	1.79-14	6.25-30	3.03-11	2.19-11
2.49-12	2.01-10	3.96-11	4.04-10	8.07-12	2.69-14	3.46-26	1.97-11	1.14-11
1.10-11	2.18-11	3.17-10	6.37-10	6.20-11	1.20-13	5.34-23	2.55-11	1.42-11
2.01-11	9.08-11	4.33-11	1.22-10	2.98-11	7.81-13	1.50-26	1.04-11	3.77-12
0.	2.53-11	4.01-10	1.48-10	5.67-13	3.73-11	1.25-23	1.74-11	1.24-11
1.60-11	1.91-10	2.69-10	5.86-10	1.04-10	2.52-12	1.55-23		
7.30-12	6.53-11	8.56-11	3.66-10	5.35-11	2.25-12	1.42-23	3.26-11	9.23-12
							6.32-09	1.06-09

AIR SCATTERING 5.11 02 ENERGY 7.00 ANGLE 9.00 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	0.	7.24-08	0.
4.00 01	0.	0.	0.	0.	0.	0.	1.45-08	1.90-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.30-08
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.61-08
9.00 01	0.	0.	0.	0.	0.	0.	0.	8.15-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	6.88-09	1.61-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	0.	4.61-08	0.
4.00 01	0.	0.	0.	0.	0.	0.	9.22-09	1.21-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.63-08
8.00 01	0.	0.	0.	0.	0.	0.	6.40-15	1.11-08
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.86-09
1.00 02	0.	0.	0.	0.	0.	0.	4.46-17	8.73-10
1.20 02	0.	0.	0.	0.	0.	0.	4.68-18	1.21-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	5.21-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	4.38-09	1.13-08
	0.	0.	0.	0.	0.	0.	1.48-09	1.72-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.46-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	4.77-13
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.83-14
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.24-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	4.72-10
	0.	0.	0.	0.	0.	0.	0.	3.48-11
	0.	0.	0.	0.	0.	0.	0.	2.90-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.46-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.85-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.63-12
	0.	0.	0.	0.	0.	0.	0.	1.23-12

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.

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AIR SCATTERING 5.11 02 ENERGY 7.00 ANGLE 9.00 01 DIST. 3.05 02

3.30 01	1.75 03	0.	0.	4.76 04	5.00 01	1.80 03		

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
0.	0.	0.	0.	0.	0.	0.	1.30-08	
0.	0.	0.	0.	0.	0.	0.	4.51-09	
0.	0.	0.	0.	0.	0.	0.	2.30-09	
0.	0.	0.	0.	0.	0.	0.	1.61-09	
0.	0.	0.	0.	0.	0.	0.	8.15-10	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							2.85-09	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
1.29-10	2.01-11	1.42-10	3.50-10	1.29-10	1.86-14	1.85-22	8.32-09	3.72-09
4.63-10	4.13-11	1.00-10	1.80-11	4.91-11	1.13-12	6.81-22	2.91-09	1.03-09
4.44-10	1.69-10	2.25-10	1.61-10	4.56-10	1.00-12	1.63-26	1.69-09	4.65-10
7.38-10	2.44-10	1.35-10	5.52-11	1.86-11	3.36-13	4.27-26	1.18-09	1.85-10
2.46-10	3.87-10	1.03-10	1.45-10	9.43-12	4.21-13	6.72-23	6.32-10	5.17-11
1.88-10	2.24-10	2.02-10	9.59-11	1.29-11	1.69-13	3.44-23	1.22-10	4.68-11
9.69-11	7.04-11	6.28-10	7.39-11	2.25-11	2.73-13	3.39-22	4.53-11	1.68-11
2.76-10	6.95-11	2.00-10	5.36-11	1.01-11	2.18-14	7.56-25	3.32-11	1.01-11
1.85-10	3.80-11	4.20-11	5.48-11	2.53-12	1.88-15	8.89-30	1.92-11	1.30-11
1.38-12	3.88-11	7.00-09	1.06-10	1.08-12	6.50-14	3.31-34	2.28-10	2.23-10
6.60-10	2.90-10	8.71-10	1.81-10	1.58-10	7.75-13	2.58-22		
1.41-10	4.72-11	4.61-10	4.01-11	1.10-10	4.39-13	1.69-22	2.01-09	

PHI 45 TO 90 DEGREES

1.27-10	2.20-11	2.38-10	2.41-10	1.25-11	1.92-14	7.06-23	2.39-11	1.06-11
2.72-10	1.27-11	7.28-11	5.39-11	9.36-10	6.68-12	9.89-24	3.80-11	1.98-11
9.58-11	6.51-11	7.54-10	6.16-11	8.09-12	4.86-13	2.17-23	3.64-11	2.37-11
3.15-10	2.06-10	1.43-10	5.08-11	1.53-11	7.04-14	1.82-23	4.13-11	1.15-11
5.48-11	2.79-10	2.54-10	7.02-11	1.71-10	3.74-13	4.30-27	3.02-11	1.81-11
3.13-10	1.37-10	8.06-11	4.63-11	6.93-12	4.77-13	3.16-21	3.56-11	1.74-11
1.92-09	5.36-11	2.13-10	7.16-11	6.01-12	9.54-13	4.58-23	1.65-10	1.29-10
1.26-10	1.78-11	3.87-10	1.24-10	5.35-12	1.10-13	1.10-21	2.82-11	1.15-11
4.58-11	8.39-11	3.57-10	7.20-11	1.38-11	1.02-13	3.51-22	2.09-11	7.32-12
1.21-10	2.11-11	1.76-11	4.01-12	5.25-11	2.63-15	5.94-27	5.92-11	5.66-11
9.23-10	1.98-10	5.68-10	1.46-10	2.10-10	1.82-12	9.34-22		
5.29-10	6.39-11	2.45-10	3.18-11	1.63-10	1.27-12	6.25-22	1.11-10	4.35-11

PHI 90 TO 135 DEGREES

3.18-10	7.10-11	3.77-11	1.67-11	5.49-11	4.88-13	8.18-26	3.13-11	2.55-11
9.16-11	1.18-09	5.35-11	3.21-11	3.80-12	1.77-12	4.93-23	6.88-11	5.52-11
3.07-10	5.31-10	1.29-10	1.55-11	2.83-11	3.41-11	2.86-23	8.02-11	4.19-11
1.93-10	6.41-10	7.51-11	9.67-10	1.44-11	7.92-13	7.54-26	6.94-11	3.18-11
2.14-11	2.32-11	2.31-10	3.56-11	8.72-12	1.86-14	2.15-21	1.11-11	5.55-12
6.47-12	5.89-11	5.50-11	4.83-11	7.27-12	1.19-14	1.96-25	6.29-12	2.58-12
9.96-12	5.07-11	1.19-10	1.71-09	9.18-12	1.76-12	2.05-25	4.18-11	3.18-11
3.86-11	1.99-10	1.40-10	1.62-10	9.96-12	4.32-13	3.41-25	2.09-11	7.48-12
2.53-11	3.32-10	2.70-11	1.22-11	5.05-11	1.12-13	2.82-22	2.07-11	1.47-11
5.30-11	4.54-12	1.09-12	5.23-11	1.28-12	1.16-13	2.46-30	5.56-12	3.89-12
2.85-10	7.02-10	2.01-10	9.46-10	3.35-11	1.04-11	4.38-22		
1.39-10	2.78-10	5.21-11	8.23-10	1.08-11	9.11-12	3.83-22	8.40-11	2.48-11

PHI 135 TO 180 DEGREES

1.18-12	1.42-10	8.37-12	1.79-11	2.40-12	2.55-14	4.17-26	7.85-12	5.51-12
5.64-11	1.91-10	1.01-11	6.90-11	3.09-11	4.75-14	2.51-24	1.62-11	6.14-12
0.	3.81-11	1.67-10	9.43-11	7.42-12	6.84-13	5.48-28	9.23-12	3.98-12
0.	2.64-11	2.34-11	4.33-11	2.53-11	5.10-13	1.52-24	3.27-12	9.74-13
0.	1.98-10	7.47-12	6.15-11	8.54-12	9.59-14	5.18-22	1.15-11	8.11-12
6.19-12	1.13-10	1.16-10	1.22-10	1.23-11	6.11-13	2.38-24	1.25-11	5.57-12
9.39-12	2.03-10	1.65-11	3.32-09	3.83-11	1.23-13	2.53-24	7.83-11	6.04-11
4.34-13	2.07-10	3.92-10	1.23-09	2.05-11	2.49-12	2.66-25	4.79-11	2.64-11
5.67-11	3.58-11	9.53-12	5.29-11	4.44-11	9.87-12	2.33-27	8.37-12	4.74-12
8.00-13	1.02-12	3.56-11	5.68-11	1.07-13	1.23-14	1.13-28	2.39-12	1.27-12
2.40-11	2.42-10	1.89-10	1.51-09	4.50-11	2.90-12	9.23-23		
1.17-11	8.74-11	8.34-11	1.29-09	1.46-11	1.87-12	9.00-23	5.08-11	2.63-11
							3.55-09	5.43-10

AIR SCATTERING 5.12 02 ENERGY 7.00 ANGLE 1.35 02 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	1.33-07
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.34-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.99-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.64-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	8.48-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.88-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.31-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.99-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	6.71-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.81-13
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.10-08
	0.	0.	0.	0.	0.	0.	0.	1.69-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.40-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.32-14
8.00 01	0.	0.	0.	0.	0.	0.	0.	5.89-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	2.63-12
	0.	0.	0.	0.	0.	0.	0.	1.48-12

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.83-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.79-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	6.66-11
	0.	0.	0.	0.	0.	0.	0.	6.65-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.39-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	8.44-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	7.90-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	3.54-11
	0.	0.	0.	0.	0.	0.	0.	2.85-11

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AIR SCATTERING 5.12 02 ENERGY 7.00 ANGLE 1.35 02 DIST. 3.05 02

2.50 01	1.77 03	0.	0.	4.73 04	5.00 01	1.80 03		

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
0.	0.	0.	0.	0.	0.	0.	1.33-08	
0.	0.	0.	0.	0.	0.	0.	4.34-09	
0.	0.	0.	0.	0.	0.	0.	2.99-10	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							1.64-09	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
7.92-09	4.49-09	6.40-11	7.50-11	6.01-12	3.74-16	1.26-31	9.34-09	2.63-09
3.55-10	2.47-10	1.71-09	2.54-09	2.59-12	4.50-14	9.70-25	3.02-09	4.18-10
5.09-10	3.85-10	2.04-10	1.19-10	1.20-09	2.95-13	1.62-25	4.15-10	6.49-11
5.73-10	2.42-10	2.20-10	2.53-09	4.03-11	4.05-14	4.69-25	1.19-10	5.10-11
5.05-10	3.74-10	5.84-11	3.43-11	3.30-11	4.69-13	6.80-26	6.28-11	2.80-11
3.65-10	7.13-11	1.08-10	2.79-11	2.93-11	6.38-15	1.94-26	3.72-11	2.02-11
3.55-10	4.04-10	2.24-10	1.04-10	2.86-11	2.53-14	3.64-29	5.82-11	3.15-11
2.67-11	1.12-11	1.05-10	9.02-11	2.09-11	2.23-13	1.24-26	8.13-12	3.36-12
1.76-11	1.69-11	4.38-11	3.08-10	7.10-13	1.94-13	3.13-21	9.83-12	5.33-12
6.84-12	3.06-10	4.98-11	1.95-10	1.10-11	3.26-13	0.	2.15-11	1.74-11
1.14-09	7.29-10	5.67-10	1.44-09	3.61-10	3.03-13	5.44-22		
4.68-10	2.99-10	2.75-10	8.87-10	3.14-10	1.45-13	5.43-22	1.28-09	1.83-10

PHI 45 TO 90 DEGREES

7.72-10	1.33-10	1.87-11	3.03-11	4.23-13	2.57-15	1.48-21	6.96-11	5.45-11
8.76-10	6.61-11	2.87-10	4.67-11	2.33-11	3.20-14	5.46-22	8.52-11	5.56-11
1.20-10	1.31-10	1.82-10	3.88-10	1.14-10	8.58-14	2.88-23	3.12-11	9.78-12
2.67-11	1.83-10	1.87-10	9.24-11	1.72-10	4.32-14	2.95-24	2.14-11	7.07-12
2.09-11	7.69-11	2.11-10	6.53-11	9.63-12	2.13-12	2.00-25	1.37-11	4.97-12
3.49-11	6.18-12	1.26-10	6.59-11	5.02-12	4.86-13	2.66-25	8.51-12	4.12-12
1.67-10	2.06-11	7.91-11	1.59-10	5.77-11	4.33-13	2.30-23	2.09-11	9.92-12
7.18-11	1.56-10	1.07-11	1.75-11	3.78-11	4.50-14	5.16-31	1.47-11	8.67-12
1.41-11	3.27-11	2.64-10	2.74-12	2.18-10	1.10-13	1.61-25	1.41-11	7.98-12
0.	1.26-11	3.50-11	6.52-10	7.50-11	8.12-14	1.36-25	1.58-11	1.13-11
3.25-10	1.83-10	2.96-10	2.62-10	1.64-10	6.75-13	2.00-22		
1.35-10	4.46-11	8.69-11	1.31-10	7.04-11	4.07-13	1.30-22	5.23-11	1.20-11

PHI 90 TO 135 DEGREES

2.71-11	5.40-11	2.73-10	1.35-11	9.67-13	1.86-12	1.22-22	1.39-11	5.31-12
3.10-10	1.67-10	2.17-10	4.20-11	4.84-11	1.52-13	2.02-25	7.99-11	4.16-11
5.00-10	3.03-10	5.30-11	7.08-11	8.82-12	7.03-13	2.54-24	5.84-11	3.32-11
4.46-10	2.88-10	7.28-11	3.28-11	2.79-11	7.86-15	1.00-27	5.34-11	2.95-11
4.46-10	7.54-12	7.60-11	6.00-11	6.93-11	6.05-13	2.08-23	4.06-11	2.60-11
1.23-10	1.89-10	3.61-11	1.19-11	6.61-12	2.08-14	4.00-18	2.08-11	1.20-11
7.66-13	1.21-09	2.11-11	2.68-09	7.70-12	3.29-14	1.68-24	1.15-10	7.47-11
0.	2.44-10	1.15-11	1.25-11	2.48-11	6.28-14	7.25-20	1.31-11	8.06-12
5.51-13	1.15-10	4.39-10	7.46-12	2.83-13	1.71-13	2.81-22	2.00-11	1.38-11
0.	1.56-12	5.86-11	5.08-13	4.25-13	4.90-13	1.95-25	1.97-12	1.47-12
4.33-10	7.20-10	2.01-10	9.31-10	4.23-11	5.24-13	7.14-19		
1.54-10	3.70-10	8.21-11	8.31-10	1.81-11	2.03-13	7.14-19	1.03-10	3.02-11

PHI 135 TO 180 DEGREES

4.76-10	1.24-10	4.47-11	1.84-10	3.52-12	1.34-14	2.65-23	4.95-11	3.09-11
2.00-11	2.99-10	3.34-11	6.20-11	4.16-12	3.38-14	1.21-27	2.33-11	1.08-11
1.65-10	1.40-10	7.80-10	8.09-10	3.64-11	1.16-11	4.69-28	6.19-11	4.06-11
3.80-11	1.80-11	2.46-10	1.13-10	3.00-12	3.64-13	4.70-26	2.26-11	1.02-11
1.59-11	1.18-11	1.57-10	1.52-11	1.80-10	9.32-12	2.94-25	9.62-12	4.88-12
0.	4.34-12	7.10-11	1.69-10	5.83-11	2.13-14	7.13-19	6.63-12	3.40-12
0.	2.63-11	4.56-11	1.88-11	1.02-11	6.15-13	2.82-18	3.37-12	1.16-12
1.84-15	2.21-10	7.43-11	9.08-11	5.12-12	1.07-13	2.03-22	1.53-11	7.54-12
0.	1.46-11	1.25-11	2.07-10	3.38-12	3.34-14	8.34-26	5.31-12	3.72-12
0.	6.57-12	4.28-11	8.32-12	2.60-11	1.47-13	5.75-23	2.20-12	1.32-12
9.12-11	1.75-10	3.75-10	3.72-10	5.96-11	5.06-12	1.04-18		
5.08-11	5.63-11	2.09-10	2.20-10	3.25-11	4.69-12	1.03-18	3.99-11	1.25-11
							2.32-09	3.04-10

AIR SCATTERING 5.13 02 ENERGY 7.00 ANGLE 1.80 02 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	2.29-07
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.38-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	0.	1.39-18	1.48-07
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.05-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.49-12
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	8.39-20	8.92-09
	0.	0.	0.	0.	0.	0.	8.39-20	1.40-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	9.32-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.85-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.85-15
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	6.29-11
	0.	0.	0.	0.	0.	0.	0.	1.84-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	3.80-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.29-10
6.00 01	0.	0.	0.	0.	0.	0.	5.20-17	9.07-12
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	2.04-12	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	3.55-13	2.54-10
	0.	0.	0.	0.	0.	0.	3.55-13	1.07-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	5.80-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.41-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	4.59-12
8.00 01	0.	0.	0.	0.	0.	0.	0.	4.89-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.71-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	3.62-10
	0.	0.	0.	0.	0.	0.	0.	2.87-10

31427033726 1 346355665345

AIR SCATTERING 5.13 02 ENERGY 7.00 ANGLE 1.80 02 DIST. 3.05 02
2.30 01 1.77 03 0. 0. 4.73 04 5.00 01 1.80 03

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	2.29-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							1.38-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
5.19-10	3.12-10	7.43-10	4.27-11	2.53-12	6.45-14	2.48-21	1.49-08	2.33-09
1.63-09	8.69-10	8.59-10	4.22-10	4.31-11	8.24-12	2.99-21	2.11-10	1.12-10
4.54-10	4.46-11	9.18-11	2.07-10	4.63-11	8.07-13	1.17-20	4.66-11	2.72-11
8.35-11	6.58-10	1.46-10	3.38-10	8.37-11	7.10-13	4.00-21	5.21-11	2.25-11
1.31-10	1.42-10	1.19-10	4.02-10	1.29-10	1.28-15	1.48-22	3.11-11	1.21-11
2.14-09	1.82-10	1.29-11	1.29-11	2.57-10	6.41-14	7.39-24	1.85-10	1.70-10
7.47-12	3.74-10	1.35-10	1.29-11	4.16-10	5.09-14	6.59-27	2.93-11	1.26-11
5.42-13	5.92-10	5.00-10	4.69-11	3.43-11	1.40-12	6.63-24	4.71-11	3.15-11
0.	4.26-11	4.95-11	4.70-10	1.70-11	1.79-14	1.03-25	1.33-11	9.00-12
0.	2.42-12	5.35-11	8.54-12	4.79-12	8.42-15	6.52-30	2.07-12	1.55-12
8.60-10	7.40-10	4.78-10	4.12-10	2.62-10	2.28-12	5.12-21		
4.29-10	2.14-10	1.90-10	1.82-10	1.40-10	1.63-12	3.43-21	1.03-09	1.52-10

PHI 45 TO 90 DEGREES

2.32-10	6.88-11	1.09-10	1.75-11	1.04-11	5.48-15	9.10-24	1.19-10	3.00-11
8.32-10	9.40-11	1.42-10	4.14-11	1.39-11	2.97-14	3.48-24	8.06-11	2.05-11
5.41-11	2.68-10	5.01-10	5.90-11	2.73-11	2.15-12	1.39-22	3.53-11	1.58-11
1.23-10	8.52-11	1.56-10	1.19-10	8.77-11	6.91-13	1.51-22	2.20-11	7.46-12
2.58-10	2.04-10	1.21-10	3.31-11	1.77-10	1.95-13	9.12-24	3.77-11	2.02-11
4.59-11	2.85-11	6.63-11	5.50-10	1.27-11	7.45-16	2.51-25	1.84-11	1.09-11
4.47-12	6.16-10	8.22-11	1.14-10	2.87-10	2.98-13	4.63-24	3.98-11	3.15-11
4.53-13	2.80-10	2.57-11	1.52-11	2.23-11	5.09-14	3.65-25	1.54-11	8.33-12
0.	6.53-12	3.18-11	7.88-12	1.05-11	9.44-14	8.48-25	1.64-12	6.36-13
0.	9.29-13	4.34-12	6.14-11	4.30-12	4.98-14	2.67-31	1.47-12	1.17-12
2.67-10	4.37-10	2.81-10	2.10-10	1.74-10	9.67-13	9.06-23		
6.65-11	2.22-10	1.03-10	9.97-11	7.77-11	4.41-13	5.83-23	6.50-11	1.38-11

PHI 90 TO 135 DEGREES

4.70-10	2.18-09	3.69-10	7.41-11	2.25-11	1.38-14	6.77-30	5.40-10	2.06-10
2.73-10	1.50-10	6.72-10	8.40-11	4.47-11	1.26-13	1.85-25	6.60-11	2.18-11
2.01-10	3.92-10	1.06-10	1.15-10	7.24-11	1.06-13	4.91-25	4.32-11	1.97-11
6.80-11	4.11-11	1.48-10	3.03-11	8.78-11	3.47-13	9.03-22	1.40-11	4.23-12
3.80-10	9.86-12	8.70-10	1.04-09	1.85-10	3.58-12	6.41-27	8.23-11	3.75-11
1.49-10	6.52-10	3.12-11	1.63-11	6.22-10	7.11-13	6.80-28	5.40-11	3.29-11
8.91-11	3.16-10	1.88-11	1.04-10	1.95-10	3.76-14	2.02-26	2.81-11	1.14-11
3.16-12	1.29-10	1.53-11	6.28-11	7.68-12	1.60-12	2.05-25	8.58-12	3.84-12
0.	2.05-11	1.34-11	1.36-10	2.70-11	6.86-12	4.16-25	4.59-12	2.43-12
0.	4.43-10	1.38-10	3.11-12	5.20-11	6.07-13	9.23-29	2.73-11	2.39-11
2.73-10	5.58-10	3.93-10	3.17-10	2.71-10	2.57-12	2.95-22		
6.39-11	2.13-10	1.55-10	1.82-10	1.87-10	1.41-12	2.94-22	9.77-11	1.80-11

PHI 135 TO 180 DEGREES

8.39-10	1.44-10	5.68-11	4.34-11	1.67-11	1.76-14	3.03-22	6.57-10	4.77-10
5.14-10	3.08-10	1.42-10	9.97-11	2.00-11	2.96-14	1.18-25	6.67-11	2.03-11
2.26-10	1.46-10	1.13-10	5.14-11	8.31-12	9.57-14	7.11-23	3.22-11	8.81-12
8.27-10	1.00-10	1.13-10	6.43-11	7.84-12	1.39-13	1.01-23	7.63-11	5.80-11
8.09-11	3.72-11	2.68-10	3.45-10	3.49-11	2.30-14	7.04-26	2.70-11	1.19-11
3.53-11	1.50-10	3.98-11	6.01-12	2.01-12	1.07-15	1.50-26	1.18-11	6.56-12
2.15-11	1.90-10	1.31-10	1.52-10	2.37-12	3.02-14	3.53-25	1.85-11	8.28-12
5.54-14	1.21-10	1.35-10	6.01-10	1.02-11	1.90-14	1.37-24	2.25-11	1.13-11
2.16-11	7.15-11	3.01-10	2.04-10	3.82-10	4.90-14	2.47-24	2.40-11	1.08-11
1.23-12	1.74-11	9.31-15	5.56-11	2.87-11	3.07-14	3.10-23	2.45-12	1.18-12
5.06-10	2.74-10	2.79-10	3.64-10	8.71-11	1.06-13	4.33-23		
2.44-10	6.93-11	8.15-11	1.44-10	6.51-11	3.63-14	2.63-23	1.08-10	3.67-11
							2.04-09	2.60-10

AIR SCATTERING 5.14 02 ENERGY 4.00 ANGLE 1.00 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	2.19-05	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	2.35-05	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.13-06
1.80 02	0.	0.	0.	0.	0.	0.	0.	7.96-06
	1.32-06	0.	0.	0.	0.	4.08-06	0.	1.20-06

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	1.39-05	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.59-12
9.00 01	0.	0.	0.	0.	0.	1.50-05	0.	3.41-15
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.31-15
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.04-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	5.22-10
1.60 02	0.	0.	0.	0.	0.	0.	7.63-12	2.63-06
1.80 02	0.	0.	0.	0.	0.	7.19-13	4.47-12	5.07-06
	8.39-07	0.	0.	0.	0.	2.60-06	1.59-12	7.63-07
	4.26-07	0.	0.	0.	0.	2.60-06	1.10-12	4.77-07

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.26-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	6.16-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.02-12
1.40 02	0.	0.	0.	0.	0.	0.	1.30-17	8.40-10
1.60 02	0.	0.	0.	0.	0.	0.	1.89-12	3.43-09
1.80 02	0.	0.	0.	0.	0.	0.	2.15-11	1.03-08
	0.	0.	0.	0.	0.	0.	1.62-12	1.46-09
	0.	0.	0.	0.	0.	0.	1.04-12	5.03-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	6.28-12
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.27-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	9.90-14
1.00 02	0.	0.	0.	0.	0.	0.	0.	4.64-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.96-11
1.40 02	0.	0.	0.	0.	0.	8.47-13	3.03-12	7.84-10
1.60 02	0.	0.	0.	0.	0.	1.13-10	2.62-11	1.36-09
1.80 02	0.	0.	0.	0.	7.52-15	1.90-12	7.53-12	7.77-09
	0.	0.	0.	0.	4.54-16	2.00-11	5.82-12	1.74-09
	0.	0.	0.	0.	4.49-16	1.96-11	2.83-12	8.50-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.09-14
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	4.05-11
1.20 02	0.	0.	0.	0.	0.	0.	6.52-11	3.19-09
1.40 02	0.	0.	0.	0.	0.	8.21-14	3.94-15	2.48-10
1.60 02	0.	0.	0.	0.	0.	6.50-11	3.49-12	1.17-09
1.80 02	0.	0.	0.	0.	0.	7.88-16	2.71-13	3.67-09
	0.	0.	0.	0.	0.	1.13-11	2.19-11	1.54-09
	0.	0.	0.	0.	0.	8.21-12	2.13-11	7.75-10

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AIR SCATTERING 5.14 02 ENERGY 4.00 ANGLE 1.00 DIST. 3.05 02
3.30 01 1.76 03 0. 0. 5.05 04 5.00 01 1.80 03

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	3.06-05
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	4.70-06
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	3.31-07
0.	0.	0.	0.	0.	0.	0.	6.37-07
0.	0.	0.	0.	0.	0.	0.	2.76-06

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
4.58-10	2.65-11	5.68-11	4.53-11	3.37-14	7.83-17	4.12-23	1.95-05	9.89-06
5.46-11	1.06-10	2.14-10	4.92-10	1.68-10	1.55-15	3.89-21	2.16-11	7.79-12
4.84-10	1.32-10	1.02-10	5.78-11	6.85-12	1.72-14	1.23-24	3.72-11	1.72-11
5.66-10	2.36-10	1.79-10	1.87-10	1.39-11	2.09-15	3.66-26	5.00-11	3.04-11
1.06-09	2.35-10	5.81-11	1.21-10	2.07-11	5.08-16	1.46-23	2.99-06	2.99-06
2.13-10	6.23-11	3.37-11	3.01-10	9.14-11	3.52-13	7.80-24	2.14-11	7.21-12
7.76-10	3.43-10	1.06-10	4.98-10	2.44-11	1.40-13	5.58-20	7.75-11	2.70-11
3.82-10	2.16-10	1.06-09	5.74-10	1.67-11	2.72-14	1.94-22	1.07-10	3.73-11
4.55-10	1.01-09	1.92-10	1.18-10	9.66-11	6.55-14	1.91-25	2.11-07	2.10-07
1.44-10	1.03-09	1.05-10	5.56-10	3.22-10	2.27-15	1.79-27	4.06-07	1.83-07
1.01-09	5.91-10	4.98-10	6.07-10	1.04-10	1.31-13	1.90-20		
2.73-10	1.72-10	2.54-10	1.81-10	3.70-11	7.06-14	1.82-20	1.76-06	7.92-07

PHI 45 TO 90 DEGREES

1.08-10	8.22-10	7.10-12	3.01-10	3.04-13	8.20-15	2.79-25	4.08-11	3.00-11
5.92-10	2.93-11	4.71-11	3.49-10	1.44-10	7.22-16	1.08-24	4.47-11	1.86-11
1.58-10	1.92-10	3.93-11	3.78-11	5.03-12	9.69-15	4.50-22	1.80-11	8.05-12
1.07-10	1.86-10	2.02-10	9.57-11	1.35-11	1.05-14	1.17-22	2.06-11	5.35-12
1.57-10	4.75-11	1.54-10	7.40-11	1.30-11	9.75-16	5.54-25	1.56-11	5.15-12
6.38-11	6.95-11	2.13-10	1.14-10	4.15-12	3.91-16	2.70-27	1.81-11	6.58-12
8.56-10	1.40-10	5.06-11	5.46-11	3.93-11	1.80-13	4.19-26	5.92-11	3.86-11
2.23-10	2.10-10	2.34-10	1.41-10	8.32-11	1.74-13	3.47-26	9.69-11	3.04-11
1.34-10	3.13-10	2.10-10	1.41-10	1.44-10	5.77-14	9.86-24	3.02-10	1.78-10
2.69-10	3.13-09	8.14-10	2.39-10	3.68-11	1.78-14	1.79-25	9.81-10	4.62-10
6.03-10	5.32-10	3.10-10	2.47-10	9.60-11	1.23-13	1.60-22		
2.22-10	1.65-10	6.22-11	6.26-11	3.69-11	7.79-14	1.26-22	1.84-10	4.49-11

PHI 90 TO 135 DEGREES

3.94-10	6.12-11	3.17-11	9.96-11	2.06-13	1.76-15	3.43-27	2.81-11	2.37-11
4.07-10	3.01-11	2.79-11	1.30-11	7.47-11	2.28-15	8.29-27	2.78-11	1.85-11
2.35-10	1.32-10	2.20-11	4.05-11	9.06-11	9.24-14	2.23-25	2.29-11	1.06-11
8.39-11	6.25-11	4.17-09	3.53-11	3.24-11	3.69-14	1.89-24	1.08-10	9.77-11
7.31-11	1.08-09	3.46-10	2.58-10	4.66-11	1.14-14	3.29-26	5.61-11	2.69-11
3.91-10	1.92-10	2.96-10	8.10-11	7.76-12	3.14-15	1.92-24	4.10-10	3.69-10
3.89-10	4.24-10	4.55-10	1.93-10	6.39-11	2.59-14	4.58-23	5.63-11	1.69-11
1.04-09	5.18-10	2.04-10	1.87-10	2.67-11	1.05-13	4.47-23	1.52-10	6.30-11
7.85-10	2.89-10	3.94-10	4.42-10	2.78-11	8.89-14	4.67-22	2.08-10	6.84-11
1.87-08	4.71-10	5.90-10	8.22-11	3.78-12	1.47-13	3.18-30	1.78-09	1.06-09
1.93-09	6.41-10	1.79-09	2.84-10	9.01-11	1.00-13	1.09-22		
1.05-09	1.70-10	1.33-09	7.09-11	2.83-11	4.12-14	8.26-23	3.31-10	9.86-11

PHI 135 TO 180 DEGREES

9.15-10	2.45-11	8.20-11	2.18-10	4.02-10	1.50-15	6.29-30	6.59-11	5.52-11
5.83-11	8.50-11	4.11-10	7.29-11	1.90-11	2.12-14	3.71-22	1.77-11	6.38-12
3.76-10	1.44-09	8.36-10	9.66-11	2.80-11	2.83-14	1.63-28	9.63-11	4.43-11
1.87-10	6.46-11	4.85-11	1.01-10	1.54-11	1.11-14	3.50-23	1.64-11	7.31-12
3.92-10	5.47-11	4.95-11	8.18-11	2.35-11	2.39-13	6.91-27	2.82-11	1.35-11
2.19-10	8.12-11	3.45-11	2.13-11	9.29-12	8.24-14	1.23-26	2.06-11	7.84-12
2.65-10	2.25-10	2.92-10	7.20-11	1.54-10	8.80-13	8.78-25	2.96-10	1.87-10
2.01-10	2.52-10	1.85-10	1.49-10	2.44-11	6.04-15	1.92-23	4.79-11	1.31-11
3.85-10	4.83-10	3.02-10	8.65-11	2.03-11	2.03-14	2.92-23	1.56-10	5.48-11
2.72-10	3.12-10	3.88-10	7.44-11	1.38-12	1.02-13	2.01-21	3.32-10	1.31-10
5.56-10	6.88-10	5.50-10	1.83-10	1.06-10	3.69-13	2.08-22		
1.12-10	2.62-10	1.75-10	4.04-11	4.80-11	3.45-13	1.39-22	2.03-10	6.42-11
							2.76-06	1.24-06

AIR SCATTERING 5.15 02 ENERGY 4.00 ANGLE 1.50 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.07-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	2.43-07	4.54-07	1.34-07	0.	0.	0.	0.	0.
4.00 01	0.	0.	9.38-08	1.40-07	0.	0.	0.	0.
6.00 01	0.	0.	0.	4.41-08	6.70-08	0.	0.	0.
8.00 01	0.	0.	0.	0.	5.04-08	5.60-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	9.01-08	0.	0.
1.00 02	0.	0.	0.	0.	0.	7.46-08	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	1.57-07	0.
1.40 02	0.	0.	0.	0.	0.	0.	1.59-07	0.
1.60 02	0.	0.	0.	0.	0.	0.	2.12-08	2.54-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.25-07
	1.47-08	2.74-08	2.43-08	3.61-08	3.43-08	4.69-08	9.72-08	5.16-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	1.55-07	2.89-07	8.43-08	0.	0.	0.	0.	0.
4.00 01	0.	0.	5.97-08	8.92-08	0.	0.	0.	0.
6.00 01	0.	0.	0.	2.81-08	4.27-08	0.	0.	0.
8.00 01	0.	0.	0.	0.	3.21-08	3.57-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	5.74-08	0.	8.93-12
1.00 02	0.	0.	0.	0.	0.	4.75-08	0.	1.13-11
1.20 02	0.	0.	0.	0.	0.	0.	1.00-07	2.82-09
1.40 02	0.	0.	0.	0.	0.	0.	1.01-07	8.48-10
1.60 02	0.	0.	0.	0.	0.	2.71-14	1.35-08	1.68-07
1.80 02	0.	0.	0.	0.	0.	5.79-12	1.28-11	8.68-08
	9.34-09	1.74-08	1.54-08	2.30-08	2.18-08	2.98-08	6.19-08	3.56-08
	3.82-09	7.80-09	8.91-09	1.32-08	1.54-08	1.74-08	2.24-08	5.77-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.80-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.00-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	7.36-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.49-09
1.60 02	0.	0.	0.	0.	0.	5.03-13	7.47-14	2.02-09
1.80 02	0.	0.	0.	0.	0.	4.16-10	1.88-11	1.33-09
	0.	0.	0.	0.	0.	2.52-11	1.15-12	8.59-10
	0.	0.	0.	0.	0.	2.49-11	6.75-13	3.82-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	6.36-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.09-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.66-13
1.20 02	0.	0.	0.	0.	0.	1.31-11	0.	1.83-12
1.40 02	0.	0.	0.	0.	0.	6.10-12	3.67-12	3.78-10
1.60 02	0.	0.	0.	0.	0.	1.23-11	2.02-12	1.16-09
1.80 02	0.	0.	0.	0.	0.	5.89-12	4.26-11	5.65-10
	0.	0.	0.	0.	0.	6.79-12	3.89-12	3.37-10
	0.	0.	0.	0.	0.	4.80-12	2.52-12	1.33-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.15-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.09-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.57-12
1.40 02	0.	0.	0.	0.	0.	0.	2.72-12	7.16-10
1.60 02	0.	0.	0.	0.	0.	1.28-12	3.81-11	2.80-10
1.80 02	0.	0.	0.	0.	0.	8.08-10	9.14-12	5.46-10
	0.	0.	0.	0.	0.	4.89-11	7.89-12	2.78-10
	0.	0.	0.	0.	0.	4.36-11	6.56-12	1.69-10

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AIR SCATTERING 5.15 02 ENERGY 4.00 ANGLE 1.50 01 DIST. 3.05 02
3.20 01 1.75 03 0. 0. 5.08 04 5.00 01 1.80 03

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	7.83-07
0.	0.	0.	0.	0.	0.	0.	1.12-07
0.	0.	0.	0.	0.	0.	0.	3.44-08
0.	0.	0.	0.	0.	0.	0.	2.38-08
0.	0.	0.	0.	0.	0.	0.	1.80-08
0.	0.	0.	0.	0.	0.	0.	1.49-08
0.	0.	0.	0.	0.	0.	0.	1.57-08
0.	0.	0.	0.	0.	0.	0.	1.59-08
0.	0.	0.	0.	0.	0.	0.	2.24-08
0.	0.	0.	0.	0.	0.	0.	1.00-08
0.	0.	0.	0.	0.	0.	0.	1.03-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
5.47-10	2.07-11	1.51-10	1.33-11	3.12-12	2.17-13	9.07-29	4.99-07	1.45-07
8.51-08	4.36-11	9.88-12	2.96-11	1.01-11	2.01-14	1.19-30	7.66-08	3.61-08
1.79-10	1.29-10	4.47-11	5.03-10	1.46-11	5.15-14	3.00-25	2.19-08	1.55-08
1.38-10	9.92-11	4.73-11	6.79-10	1.17-10	3.53-14	9.27-23	1.52-08	1.07-08
1.57-08	1.77-10	1.70-10	1.13-10	6.67-11	2.91-13	3.08-25	1.24-08	1.15-08
9.64-10	7.12-11	1.18-10	9.05-10	1.88-11	7.42-14	6.93-25	9.58-09	9.50-09
1.73-10	1.53-10	1.44-10	5.02-11	2.76-11	7.75-15	3.43-23	1.02-08	5.87-09
1.16-10	3.14-10	6.98-10	8.29-11	7.51-11	8.68-14	1.81-21	1.02-08	4.33-09
3.40-10	2.56-10	3.71-10	6.62-10	9.04-12	3.00-14	8.76-24	1.49-08	2.95-09
4.31-10	2.89-10	4.76-10	1.56-10	4.40-12	1.91-14	2.33-22	7.00-09	6.38-10
1.80-08	3.14-10	4.14-10	7.01-10	8.97-11	1.37-13	5.38-22		
1.50-08	5.28-11	1.45-10	2.54-10	3.33-11	7.10-14	4.81-22	6.71-08	1.25-08

PHI 45 TO 90 DEGREES

2.46-12	4.20-10	3.87-11	2.19-11	8.90-13	4.17-13	1.13-24	1.65-11	1.51-11
1.55-09	1.92-10	1.69-10	8.75-11	7.63-12	1.05-14	1.46-30	1.06-10	9.05-11
3.53-10	5.44-11	2.26-10	1.38-10	4.13-12	4.40-13	7.30-22	3.07-11	1.50-11
2.69-10	1.82-10	2.75-10	4.68-10	2.64-11	3.63-13	4.98-25	3.86-11	1.30-11
2.66-10	3.41-11	5.34-11	1.00-11	1.16-10	3.60-13	8.25-24	2.01-11	1.27-11
4.06-10	1.47-10	2.05-10	3.77-11	7.77-12	1.32-12	1.54-24	3.76-11	1.48-11
3.77-10	1.05-10	7.49-11	7.06-11	2.53-11	8.33-14	6.37-24	3.54-11	1.51-11
1.42-10	1.82-10	1.78-09	2.19-10	1.84-11	5.70-13	5.98-24	1.81-10	1.04-10
2.19-10	6.08-10	1.48-10	2.81-10	2.95-10	3.28-14	4.31-28	2.08-10	8.21-11
1.17-10	2.09-10	1.63-09	1.75-10	2.98-12	8.12-15	1.06-29	2.48-10	1.30-10
7.74-10	3.65-10	8.50-10	3.55-10	9.71-11	7.40-13	2.16-22		
2.93-10	7.44-11	3.03-10	1.52-10	3.17-11	3.18-13	1.95-22	1.60-10	3.78-11

PHI 90 TO 135 DEGREES

8.86-13	5.74-11	4.38-10	5.75-11	4.78-11	6.01-17	3.64-27	1.41-11	7.48-12
8.77-11	1.01-10	3.44-10	9.55-11	9.73-12	6.17-13	1.49-23	1.87-11	7.02-12
8.36-10	3.76-11	2.20-10	4.00-11	3.63-11	8.73-15	8.52-23	5.78-11	3.60-11
9.64-10	6.99-11	1.45-10	1.99-10	1.15-11	1.18-12	4.43-23	6.70-11	3.30-11
9.46-11	1.10-10	3.73-11	2.00-10	1.51-10	5.51-12	2.95-19	1.57-11	4.95-12
1.15-09	2.03-09	9.64-11	1.82-10	6.86-09	1.83-12	6.29-28	2.30-10	1.21-10
2.13-10	3.32-10	2.76-10	2.37-10	7.84-11	1.69-12	1.76-21	3.86-11	1.17-11
1.99-10	2.94-10	1.22-10	1.45-10	9.28-11	2.26-14	3.41-20	5.93-11	2.05-11
7.25-10	1.07-10	2.90-10	1.97-10	2.51-11	5.53-12	2.38-29	1.53-10	6.41-11
2.34-10	3.83-10	2.43-10	1.08-10	5.56-12	7.12-15	1.33-22	8.60-11	2.13-11
1.03-09	6.53-10	4.03-10	3.18-10	1.29-09	3.29-12	6.08-20		
3.12-10	3.53-10	9.58-11	1.21-10	1.18-09	1.75-12	5.17-20	1.44-10	2.98-11

PHI 135 TO 180 DEGREES

2.86-11	5.41-10	2.27-10	4.82-12	1.53-11	3.89-15	3.89-26	2.69-11	1.59-11
2.52-10	1.90-10	5.66-11	2.09-11	6.32-12	1.20-14	3.89-27	2.37-11	1.29-11
1.45-10	3.84-10	4.31-09	6.30-11	4.97-12	1.60-13	8.10-23	1.28-10	1.10-10
4.27-10	7.35-10	3.80-10	5.03-10	1.36-11	9.74-16	3.91-22	6.89-11	3.43-11
2.09-11	1.49-10	4.97-11	2.26-10	9.83-11	2.25-14	2.23-23	1.24-11	5.02-12
1.13-10	5.53-10	1.62-10	5.35-10	5.46-11	8.80-15	2.46-25	4.01-11	1.33-11
	1.28-10	1.56-10	1.50-10	6.13-11	2.99-13	1.73-19	1.33-11	4.54-12
2.85-10	4.51-10	1.06-10	2.39-10	5.85-11	1.36-13	1.81-26	9.77-11	5.21-11
5.44-11	2.63-10	1.66-10	1.59-10	1.54-11	2.98-13	5.56-23	4.58-11	1.12-11
2.97-10	7.02-10	7.69-10	1.74-10	5.10-12	3.05-15	1.89-23	2.70-10	1.57-10
3.59-10	7.79-10	1.49-09	4.68-10	7.29-11	2.37-13	5.67-20		
1.03-10	2.36-10	1.11-09	1.21-10	2.86-11	1.05-13	5.65-20	1.26-10	4.41-11
							1.06-07	1.96-08

AIR SCATTERING 5.16 02 ENERGY 4.00 ANGLE 3.00 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	2.61-08	2.14-07	1.08-07	0.	0.	0.	0.
4.00 01	0.	0.	0.	5.46-08	5.50-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	3.31-08	3.68-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	3.67-08	2.00-08	0.
9.00 01	0.	0.	0.	0.	0.	0.	6.36-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	5.05-08	0.
1.20 02	0.	0.	0.	0.	0.	0.	7.25-08	0.
1.40 02	0.	0.	0.	0.	0.	0.	2.11-08	6.21-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.63-08
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	1.57-09	1.29-08	1.60-08	1.84-08	2.17-08	5.56-08	2.46-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	1.66-08	1.36-07	6.86-08	0.	0.	0.	0.
4.00 01	0.	0.	0.	3.48-08	3.50-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	2.11-08	2.34-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	2.33-08	1.27-08	2.73-11
9.00 01	0.	0.	0.	0.	0.	0.	4.05-08	2.23-10
1.00 02	0.	0.	0.	0.	0.	0.	3.21-08	7.22-11
1.20 02	0.	0.	0.	0.	0.	0.	4.61-08	4.90-10
1.40 02	0.	0.	0.	0.	0.	0.	1.34-08	4.72-08
1.60 02	0.	0.	0.	0.	0.	1.50-12	6.97-12	3.37-08
1.80 02	0.	0.	0.	0.	0.	6.98-14	3.59-12	4.03-10
	0.	1.00-09	8.23-09	1.02-08	1.17-08	1.38-08	3.54-08	1.86-08
	0.	1.00-09	3.36-09	4.54-09	5.84-09	6.23-09	9.17-09	2.48-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.73-12
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.32-12
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.07-13
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.70-11
1.20 02	0.	0.	0.	0.	0.	0.	7.43-13	2.25-10
1.40 02	0.	0.	0.	0.	0.	0.	1.17-11	3.96-10
1.60 02	0.	0.	0.	0.	0.	2.23-13	2.10-12	3.36-10
1.80 02	0.	0.	0.	0.	0.	0.	3.62-13	3.82-10
	0.	0.	0.	0.	0.	3.87-14	3.73-12	2.66-10
	0.	0.	0.	0.	0.	2.54-14	3.10-12	6.52-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.82-13
8.00 01	0.	0.	0.	0.	0.	0.	1.23-13	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.17-13
1.20 02	0.	0.	0.	0.	0.	0.	0.	5.86-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	6.84-11
1.60 02	0.	0.	0.	0.	0.	0.	1.44-10	7.63-10
1.80 02	0.	0.	0.	0.	0.	0.	8.20-11	1.49-10
	0.	0.	0.	0.	0.	0.	3.00-11	1.79-10
	0.	0.	0.	0.	0.	0.	2.53-11	7.29-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	8.50-13
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.59-11
1.40 02	0.	0.	0.	0.	0.	0.	3.22-12	6.74-11
1.60 02	0.	0.	0.	0.	0.	1.65-11	1.18-13	1.64-10
1.80 02	0.	0.	0.	0.	0.	0.	1.91-13	2.30-10
	0.	0.	0.	0.	0.	2.86-12	8.88-13	6.56-11
	0.	0.	0.	0.	0.	2.86-12	8.56-13	2.41-11

23237424073 21312304206

AIR SCATTERING 5.16 02 ENERGY 4.00 ANGLE 3.00 01 DIST. 3.05 02
3.50 01 1.75 03 0. 0. 5.11 04 5.00 01 1.80 03

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	1.93-07
0.	0.	0.	0.	0.	0.	0.	3.56-08
0.	0.	0.	0.	0.	0.	0.	1.56-08
0.	0.	0.	0.	0.	0.	0.	9.33-09
0.	0.	0.	0.	0.	0.	0.	6.36-09
0.	0.	0.	0.	0.	0.	0.	5.05-09
0.	0.	0.	0.	0.	0.	0.	7.25-09
0.	0.	0.	0.	0.	0.	0.	7.07-09
0.	0.	0.	0.	0.	0.	0.	3.70-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							3.19-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
1.17-10	3.15-10	2.73-10	5.42-10	1.37-11	5.07-14	2.10-29	1.23-07	4.08-08
2.03-11	4.32-11	1.63-10	2.54-10	3.81-11	1.00-14	3.28-21	2.27-08	1.01-08
4.41-10	5.04-11	8.47-11	8.12-10	8.12-11	1.13-14	1.69-20	1.00-08	4.98-09
5.47-09	3.36-10	2.47-10	3.12-11	3.05-11	0.82-15	6.59-23	6.29-09	2.99-09
2.70-10	5.97-11	3.28-10	7.92-11	4.66-12	8.32-14	6.80-26	4.09-09	2.86-09
1.23-10	1.31-10	7.47-11	1.68-10	2.19-12	6.35-16	3.56-25	3.23-09	2.27-09
1.62-10	3.31-10	1.03-10	7.89-11	6.64-11	1.85-15	5.80-22	4.68-09	1.52-09
1.58-09	1.68-10	1.60-10	1.15-10	9.67-12	2.90-14	7.89-24	5.22-09	1.07-09
3.71-10	6.75-10	1.03-09	8.50-11	1.39-11	1.02-13	4.49-22	2.77-09	2.42-10
1.80-10	9.10-10	1.87-10	6.25-11	5.47-12	2.05-13	4.06-25	8.16-11	2.97-11
2.53-09	5.07-10	4.85-10	4.21-10	6.72-11	6.30-14	5.36-21		
7.18-10	1.21-10	1.42-10	2.02-10	2.67-11	2.71-14	4.54-21	2.07-08	3.52-09

PHI 45 TO 90 DEGREES

2.71-08	1.59-11	1.17-09	9.85-11	1.74-12	1.78-13	2.58-18	1.65-09	1.62-09
2.09-11	2.49-10	5.37-11	2.04-11	9.78-12	1.61-15	1.32-28	1.19-11	5.17-12
3.85-10	9.35-11	7.70-11	7.50-11	5.21-12	1.15-14	3.01-30	2.96-11	1.37-11
7.00-09	8.65-11	2.16-10	9.26-11	9.74-12	1.24-14	4.23-24	4.30-10	1.94-10
1.88-10	8.77-11	2.01-10	4.98-10	8.27-12	9.33-13	9.09-25	2.68-11	9.64-12
1.51-10	1.56-10	1.25-10	7.31-10	2.09-10	3.36-13	3.16-22	3.33-11	1.07-11
6.93-10	2.47-10	9.64-11	4.70-10	7.32-11	1.80-13	4.09-21	7.87-11	2.77-11
3.22-10	5.21-10	1.48-10	3.54-10	9.70-12	3.01-14	1.99-21	7.99-11	2.22-11
9.74-11	6.22-10	3.23-10	1.44-10	1.62-11	1.36-14	2.59-25	6.55-11	1.67-11
2.20-10	1.52-09	3.19-10	4.55-11	8.32-12	2.77-14	3.08-22	1.07-10	5.68-11
4.42-09	5.59-10	3.73-10	5.49-10	7.38-11	3.09-13	1.58-19		
2.78-09	1.68-10	9.55-11	1.84-10	3.63-11	2.20-13	1.56-19	3.25-10	1.67-10

PHI 90 TO 135 DEGREES

6.47-11	9.91-11	3.79-11	7.60-12	1.03-11	7.44-12	1.09-24	8.65-12	4.35-12
1.49-11	3.86-11	1.50-11	2.18-11	1.05-11	1.22-14	1.89-23	3.19-12	1.16-12
1.62-10	2.06-10	1.11-10	3.29-11	8.42-12	3.29-13	5.89-25	2.04-11	7.26-12
9.24-11	2.57-10	8.99-10	7.25-11	4.55-11	4.84-13	5.05-19	3.80-11	2.63-11
8.51-11	1.23-11	1.16-10	1.39-11	1.73-12	7.31-16	1.10-21	8.56-12	3.11-12
5.31-11	9.64-10	2.65-11	5.93-11	2.59-11	5.40-15	2.37-25	3.98-11	3.29-11
2.31-10	4.36-10	7.74-11	1.42-10	3.24-11	3.48-13	2.12-20	3.86-11	1.51-11
8.06-11	3.13-11	5.36-10	3.52-10	2.63-10	9.95-14	6.23-25	3.27-11	1.07-11
8.85-11	1.54-08	1.36-10	8.66-11	5.19-11	2.24-14	1.30-24	6.41-10	5.49-10
8.61-11	3.72-10	4.38-10	1.94-10	1.23-10	1.97-14	4.11-27	5.36-11	1.43-11
2.21-10	3.17-09	5.71-10	2.16-10	1.21-10	8.42-13	1.72-19		
5.11-11	2.66-09	3.03-10	6.31-11	7.42-11	5.17-13	1.65-19	1.63-10	9.68-11

PHI 135 TO 180 DEGREES

3.80-09	7.05-10	3.17-11	1.49-11	4.58-12	1.57-13	1.66-30	2.55-10	2.24-10
3.40-10	2.80-10	9.75-11	1.28-10	3.54-10	1.05-12	2.57-24	3.90-11	1.56-11
6.47-11	5.40-11	9.47-10	1.13-10	1.67-11	2.75-13	2.59-19	3.05-11	2.23-11
6.47-11	4.08-11	8.24-11	6.46-11	1.33-11	1.23-14	3.52-22	8.46-12	3.14-12
1.99-10	8.62-11	1.56-10	3.26-11	4.97-12	4.34-12	1.28-21	1.94-11	1.53-11
1.29-10	2.01-10	4.72-11	1.09-11	1.50-10	1.80-12	2.44-22	1.81-11	8.09-12
1.81-10	7.55-11	3.97-10	2.42-10	2.87-10	2.90-13	1.84-23	3.14-11	1.28-11
1.52-10	8.17-11	3.20-10	2.05-10	4.65-11	2.77-15	2.87-25	2.91-11	1.10-11
1.12-10	1.99-10	4.94-10	4.53-10	1.39-11	8.42-13	9.47-26	4.91-11	1.38-11
1.13-10	1.61-10	4.45-10	4.83-11	2.25-11	2.84-13	5.25-26	4.27-11	1.36-11
5.09-10	2.59-10	6.60-10	2.97-10	2.07-10	1.59-12	6.93-20		
2.38-10	7.43-11	2.73-10	7.35-11	1.19-10	1.08-12	6.91-20	6.86-11	1.75-11
							3.34-08	5.61-09

AIR SCATTERING 5.17 02 ENERGY 4.00 ANGLE 6.00 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.9T-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	1.53-07	2.90-08	0.	0.
4.00 01	0.	0.	0.	0.	0.	5.28-08	0.	0.
6.00 01	0.	0.	0.	0.	0.	1.37-08	3.57-08	0.
8.00 01	0.	0.	0.	0.	0.	0.	3.82-08	0.
9.00 01	0.	0.	0.	0.	0.	0.	3.12-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	2.09-08	1.38-08
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.04-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	9.20-09	1.46-08	3.10-08	1.23-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	9.71-08	1.85-08	0.	0.
4.00 01	0.	0.	0.	0.	0.	3.36-08	0.	0.
6.00 01	0.	0.	0.	0.	0.	8.72-09	2.27-08	2.22-09
8.00 01	0.	0.	0.	0.	0.	0.	2.43-08	1.68-09
9.00 01	0.	0.	0.	0.	0.	0.	1.98-08	2.91-09
1.00 02	0.	0.	0.	0.	0.	0.	1.53-08	1.09-08
1.20 02	0.	0.	0.	0.	0.	0.	5.92-12	2.24-08
1.40 02	0.	0.	0.	0.	0.	0.	7.32-12	1.62-09
1.60 02	0.	0.	0.	0.	0.	0.	3.17-13	2.04-10
1.80 02	0.	0.	0.	0.	0.	0.	2.79-12	1.28-09
	0.	0.	0.	0.	5.86-09	9.27-09	2.01-08	1.14-08
	0.	0.	0.	0.	2.39-09	2.95-09	3.91-09	1.22-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.84-12
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.70-13
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.49-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.92-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	5.11-10
1.20 02	0.	0.	0.	0.	0.	0.	9.00-13	2.94-10
1.40 02	0.	0.	0.	0.	0.	4.03-14	9.06-14	1.25-10
1.60 02	0.	0.	0.	0.	0.	0.	1.06-11	8.87-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	9.97-12
	0.	0.	0.	0.	0.	1.07-14	2.16-12	2.36-10
	0.	0.	0.	0.	0.	1.07-14	1.86-12	9.32-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.40-12
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.64-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.77-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.26-11
1.60 02	0.	0.	0.	0.	0.	0.	3.80-12	2.46-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.06-09
	0.	0.	0.	0.	0.	0.	6.60-13	1.42-10
	0.	0.	0.	0.	0.	0.	5.16-13	1.22-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.05-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.37-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	6.27-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.38-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.18-11
	0.	0.	0.	0.	0.	0.	0.	8.94-12

275225036245 330524557741

AIR SCATTERING 5.17 02 ENERGY 4.00 ANGLE 6.00 01 DIST. 3.05 02
2.10 01 1.77 03 0. 0. 5.07 04 5.00 01 1.80 03

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
0.	0.	0.	0.	0.	0.	0.	4.39-08	
0.	0.	0.	0.	0.	0.	0.	1.06-08	
0.	0.	0.	0.	0.	0.	0.	6.31-09	
0.	0.	0.	0.	0.	0.	0.	3.82-09	
0.	0.	0.	0.	0.	0.	0.	3.12-09	
0.	0.	0.	0.	0.	0.	0.	3.19-09	
0.	0.	0.	0.	0.	0.	0.	2.43-09	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							9.30-09	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
3.50-12	1.42-11	4.58-11	4.70-11	5.69-12	1.09-15	2.75-27	2.80-08	1.06-08
1.15-09	7.58-11	1.11-10	1.90-10	8.39-11	1.37-15	2.80-25	6.80-09	2.75-09
1.18-09	3.55-10	1.29-10	1.39-10	1.64-11	3.58-15	1.17-25	4.28-09	1.44-09
1.89-10	1.10-09	1.46-09	1.54-10	4.71-11	1.01-14	9.95-24	2.66-09	7.76-10
1.50-10	3.02-10	8.84-11	1.28-10	1.73-11	6.50-16	2.09-27	2.24-09	6.86-10
6.97-10	1.03-09	2.54-10	1.02-10	5.46-12	1.74-14	1.63-19	2.49-09	5.81-10
4.54-10	2.64-10	5.33-10	1.95-10	6.06-12	2.05-13	8.75-22	1.84-09	1.77-10
2.55-10	1.92-09	3.82-10	9.43-11	4.01-11	2.42-13	6.04-23	2.26-10	5.33-11
6.09-10	1.14-09	9.01-11	7.02-11	2.08-11	2.65-14	2.70-20	9.76-11	4.21-11
7.39-10	9.89-11	2.73-10	1.89-10	2.48-11	6.64-16	1.08-24	1.61-10	9.15-11
1.09-09	1.50-09	9.01-10	2.75-10	5.64-11	1.44-13	3.32-20		
2.50-10	4.80-10	3.70-10	6.12-11	1.89-11	9.91-14	2.89-20	6.38-09	9.38-10

PHI 45 TO 90 DEGREES

1.03-09	1.84-11	7.70-11	2.27-10	8.14-12	2.66-16	3.06-25	6.81-11	4.57-11
2.81-11	1.54-10	1.50-10	1.61-11	1.49-11	1.48-15	5.45-26	1.16-11	4.02-12
1.42-10	9.47-11	2.27-10	1.27-10	6.69-12	4.60-15	1.53-27	1.93-11	5.73-12
6.17-10	2.53-10	3.96-10	2.37-10	1.83-11	9.58-16	2.49-27	5.95-11	1.77-11
1.87-09	3.02-10	8.78-11	1.72-10	2.13-12	3.69-15	4.89-22	1.28-10	1.07-10
5.05-10	7.20-11	4.45-10	5.40-10	8.88-12	3.59-14	3.36-28	9.27-11	3.14-11
2.93-10	5.47-10	5.58-10	1.76-10	7.02-11	4.76-14	2.52-26	7.77-11	2.56-11
4.28-10	8.13-10	2.27-10	1.52-09	5.99-11	2.58-14	5.64-24	9.39-11	3.05-11
1.33-10	1.48-10	6.12-09	1.54-10	1.46-12	1.69-15	8.02-26	1.71-10	1.44-10
5.06-10	7.62-10	1.09-10	1.16-10	4.55-12	6.63-15	1.32-25	6.30-11	4.83-11
9.82-10	6.67-10	1.62-09	7.46-10	5.21-11	3.18-14	8.65-23		
3.41-10	1.57-10	1.06-09	4.10-10	2.28-11	1.27-14	8.59-23	1.53-10	3.92-11

PHI 90 TO 135 DEGREES

5.03-10	3.10-12	9.45-11	3.36-11	6.69-12	6.48-16	1.75-28	3.32-11	2.89-11
1.35-10	3.59-11	1.39-10	1.52-09	1.31-10	3.85-16	2.87-29	3.70-11	1.90-11
6.56-10	7.34-11	6.77-11	9.94-11	9.76-12	1.72-15	1.65-22	4.52-11	2.18-11
6.58-10	1.06-10	1.18-10	1.57-10	5.01-12	2.83-15	7.14-26	4.87-11	3.02-11
1.70-09	3.21-10	7.66-11	1.50-10	5.29-12	2.96-15	5.86-28	1.20-10	1.02-10
3.54-10	7.39-11	3.24-10	1.33-10	6.98-12	5.46-17	2.49-21	3.37-11	1.13-11
3.33-10	4.11-10	6.96-11	1.06-10	1.13-10	9.56-16	1.61-24	4.16-11	1.34-11
6.49-10	4.42-10	6.87-11	2.92-10	1.08-10	1.32-13	5.58-18	6.32-11	2.31-11
8.67-10	8.41-11	7.09-11	6.94-11	2.33-11	3.71-13	2.01-18	5.87-11	2.45-11
4.04-12	9.34-11	2.25-10	1.01-10	6.51-11	3.45-15	3.68-28	1.76-10	1.61-10
1.23-09	4.01-10	2.23-10	5.22-10	1.03-10	1.02-13	1.83-18		
3.64-10	1.04-10	5.14-11	2.17-10	3.41-11	6.03-14	1.83-18	1.14-10	2.58-11

PHI 135 TO 180 DEGREES

8.75-13	4.72-11	3.02-11	1.29-10	1.43-11	1.92-16	1.02-34	4.59-12	2.24-12
1.31-11	2.41-12	5.27-11	6.87-11	4.50-12	4.51-15	5.22-25	3.22-12	1.09-12
7.23-11	2.57-10	1.47-10	1.67-10	1.12-09	3.23-15	4.43-25	3.30-11	1.52-11
2.28-10	4.98-11	1.15-10	1.59-10	6.83-12	2.80-16	4.61-27	2.06-11	6.62-12
4.16-11	3.73-10	1.25-10	3.01-11	1.68-11	6.47-14	4.98-26	2.36-11	1.18-11
1.41-10	9.94-11	3.41-10	2.70-10	5.87-12	1.27-14	7.30-30	2.44-11	1.05-11
1.08-10	1.31-10	7.00-11	3.61-10	8.47-11	1.22-14	9.58-26	1.94-11	7.67-12
6.63-11	2.40-10	1.90-10	5.84-11	1.12-11	5.05-14	8.16-22	1.82-11	7.12-12
2.24-10	4.34-10	3.00-11	2.79-10	9.29-10	1.33-13	1.08-24	3.21-11	1.70-11
9.47-09	1.33-10	1.86-10	9.18-11	2.88-10	1.42-15	7.49-26	5.80-10	5.48-10
7.90-10	2.92-10	2.54-10	3.55-10	5.14-10	5.59-14	2.18-22		
5.53-10	8.53-11	6.75-11	1.66-10	3.45-10	3.28-14	2.17-22	7.64-11	3.38-11
							1.06-08	1.49-09

AIR SCATTERING 5.18 02 ENERGY 4.00 ANGLE 9.00 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	0.	1.11-07	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	7.06-08	0.
6.00 01	0.	0.	0.	0.	0.	0.	4.00-08	0.
8.00 01	0.	0.	0.	0.	0.	0.	8.92-09	2.26-08
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.67-08
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	6.72-09	2.58-08	1.03-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	0.	7.09-08	0	3.68-13
4.00 01	0.	0.	0.	0.	0.	0.	4.49-08	6.61-11
6.00 01	0.	0.	0.	0.	0.	0.	2.55-08	4.19-09
8.00 01	0.	0.	0.	0.	0.	0.	6.02-09	1.89-08
9.00 01	0.	0.	0.	0.	0.	0.	1.32-14	1.45-08
1.00 02	0.	0.	0.	0.	0.	0.	2.68-12	1.75-09
1.20 02	0.	0.	0.	0.	0.	0.	6.83-12	3.19-10
1.40 02	0.	0.	0.	0.	0.	0.	4.15-15	9.35-11
1.60 02	0.	0.	0.	0.	0.	0.	1.98-13	1.78-10
1.80 02	0.	0.	0.	0.	0.	0.	7.36-12	1.86-14
	0.	0.	0.	0.	0.	4.28-09	1.65-08	1.03-08
	0.	0.	0.	0.	0.	1.62-09	3.01-09	1.49-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	6.57-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	7.35-12
8.00 01	0.	0.	0.	0.	0.	0.	0.	6.96-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.62-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.62-11
1.20 02	0.	0.	0.	0.	0.	0.	1.08-13	2.12-11
1.40 02	0.	0.	0.	0.	0.	1.72-12	0.	2.28-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.61-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	4.58-13	3.53-14	2.22-10
	0.	0.	0.	0.	0.	4.58-13	3.53-14	1.21-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.04-12
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.33-12
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	8.60-14
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.05-14
1.60 02	0.	0.	0.	0.	0.	0.	2.02-15	5.85-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.13-10
	0.	0.	0.	0.	0.	0.	3.51-16	8.97-12
	0.	0.	0.	0.	0.	0.	3.51-16	6.91-12

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	6.05-14
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.17-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.50-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.30-12
	0.	0.	0.	0.	0.	0.	0.	9.47-13

006004443071 051357027455

AIR SCATTERING 5.18 02 ENERGY 4.00 ANGLE 9.00 01 DIST. 3.05 02
2.70 01 1.76 03 0. 0. 5.01 04 5.00 01 1.80 03

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	2.23-08
0.	0.	0.	0.	0.	0.	0.	7.06-09
0.	0.	0.	0.	0.	0.	0.	4.00-09
0.	0.	0.	0.	0.	0.	0.	2.70-09
0.	0.	0.	0.	0.	0.	0.	1.34-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							4.75-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
3.25-10	7.70-11	6.99-11	2.40-10	2.51-12	1.72-15	3.20-28	1.42-08	5.38-09
3.41-10	2.24-10	1.07-10	1.26-10	3.85-10	6.76-14	1.90-21	4.54-09	1.44-09
7.44-11	6.08-10	1.94-10	1.01-10	5.92-11	6.62-15	1.90-24	2.92-09	7.13-10
2.48-10	3.47-10	6.06-10	1.30-10	4.24-11	3.15-13	4.52-21	2.16-09	3.51-10
9.04-11	3.66-09	4.93-10	3.74-10	6.84-11	2.65-13	5.98-21	1.31-09	1.66-10
1.83-10	4.24-10	2.19-10	7.40-10	5.99-11	2.15-14	5.21-24	1.83-10	4.66-11
3.15-10	2.14-09	3.15-10	4.42-10	3.63-11	2.24-13	2.89-22	1.37-10	5.17-11
1.11-09	2.91-10	5.46-10	4.91-10	1.03-10	1.57-11	2.98-23	1.06-10	6.50-11
5.42-09	1.14-10	1.30-10	2.76-10	1.46-11	3.81-14	9.95-27	3.51-10	3.17-10
1.88-10	1.22-10	1.70-11	8.08-10	2.30-12	4.07-13	1.17-31	2.89-11	1.45-11
1.58-09	1.83-09	6.68-10	6.70-10	1.61-10	4.44-12	2.95-21		
1.19-09	6.79-10	1.65-10	2.13-10	7.53-11	4.15-12	1.65-21	3.52-09	4.84-10

PHI 45 TO 90 DEGREES

1.72-10	1.11-10	6.80-11	9.99-12	2.30-11	9.81-16	1.41-26	1.64-11	1.07-11
7.41-10	2.47-10	3.09-10	2.08-10	3.40-11	2.19-14	5.76-26	1.18-10	6.03-11
6.72-10	2.75-10	1.30-10	2.36-10	3.52-12	3.65-14	8.30-27	5.75-11	2.23-11
1.94-10	2.74-10	2.95-10	3.90-10	5.67-11	8.10-14	4.60-27	4.07-11	9.51-12
2.32-10	1.41-10	2.02-10	4.94-11	1.75-10	8.28-14	1.30-26	5.56-11	2.12-11
7.68-11	2.01-10	2.00-10	5.00-11	6.75-11	6.88-15	6.45-23	2.11-11	5.23-12
1.49-09	5.84-11	7.60-11	4.31-11	1.79-11	1.84-13	5.74-24	9.58-11	6.03-11
2.79-09	1.36-10	1.03-10	1.27-10	1.63-11	8.35-15	3.11-24	1.79-10	1.31-10
1.00-09	4.57-10	8.45-11	1.17-10	1.29-11	5.80-14	7.03-25	8.10-11	4.98-11
6.13-10	3.05-11	2.69-11	1.26-10	3.42-12	6.80-14	3.76-35	4.04-11	2.50-11
1.87-09	4.08-10	3.27-10	3.30-10	8.15-11	1.32-13	1.40-23		
7.19-10	8.38-11	7.46-11	1.35-10	3.54-11	6.60-14	1.01-23	1.59-10	4.50-11

PHI 90 TO 135 DEGREES

1.35-10	5.95-11	8.82-11	1.15-11	1.11-10	3.05-13	4.62-22	1.39-11	6.43-12
1.60-09	6.14-11	1.45-10	5.85-11	1.13-10	6.84-15	4.92-24	1.04-10	8.75-11
1.76-10	4.25-10	2.64-10	1.16-10	7.35-11	7.11-14	1.24-28	3.48-11	9.52-12
3.56-10	5.83-10	1.59-10	3.04-10	2.21-10	4.54-15	6.64-23	5.35-11	2.25-11
1.12-09	5.16-11	4.64-10	4.28-11	8.48-11	1.31-15	1.33-26	8.19-11	6.35-11
9.29-10	2.68-10	2.15-10	2.55-11	1.99-11	5.99-13	4.97-25	7.12-11	5.08-11
1.46-10	3.84-11	1.05-10	4.15-10	1.17-09	7.64-15	8.58-21	3.30-11	2.07-11
6.54-11	8.18-11	5.20-11	5.64-11	3.15-11	7.58-13	6.99-25	9.35-12	3.81-12
9.35-11	1.67-10	8.37-11	4.51-11	1.83-11	3.30-14	2.76-21	1.50-11	4.73-12
4.04-12	1.33-10	2.35-10	7.86-11	4.39-12	8.99-16	2.23-21	2.09-11	1.00-11
8.85-10	4.44-10	3.47-10	3.16-10	5.31-10	3.54-13	3.47-21		
3.49-10	1.93-10	8.91-11	1.18-10	3.86-10	1.62-13	2.77-21	8.93-11	2.33-11

PHI 135 TO 180 DEGREES

5.26-11	2.21-11	6.16-11	2.61-10	1.69-10	1.08-12	4.30-28	1.14-11	6.29-12
6.10-10	2.08-10	1.22-10	2.34-11	7.82-12	5.64-14	2.14-27	4.74-11	1.84-11
2.44-10	1.20-09	3.40-10	2.07-11	1.69-11	1.50-14	9.05-26	6.65-11	4.38-11
3.78-10	6.29-11	6.81-11	2.36-11	9.72-11	1.55-15	1.03-27	2.81-11	1.23-11
1.37-09	1.30-10	1.79-10	2.97-11	4.22-11	3.29-15	2.87-34	9.18-11	7.76-11
4.70-10	1.63-10	3.03-11	1.02-10	1.03-11	8.20-15	1.28-25	3.64-11	2.62-11
1.19-10	2.91-11	8.05-11	2.29-10	1.71-09	1.52-14	7.57-25	3.41-11	2.15-11
2.16-11	3.96-11	1.32-10	1.22-10	1.19-11	6.67-14	1.27-22	8.10-12	2.30-12
1.03-10	2.10-10	1.09-10	4.95-11	2.05-11	2.98-15	1.48-21	1.75-11	7.93-12
1.41-10	7.31-11	1.67-11	1.27-10	1.03-10	2.84-13	1.03-20	1.46-11	7.06-12
6.87-10	4.88-10	2.55-10	1.79-10	6.29-10	1.22-13	9.13-22		
2.54-10	3.14-10	6.68-11	5.27-11	5.59-10	7.19-14	8.79-22	7.53-11	2.05-11
							6.04-09	7.87-10

AIR SCATTERING 5.19 02 ENERGY 4.00 ANGLE 1.35 02 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	0.	0.	2.36-07	0.
4.00 01	0.	0.	0.	0.	0.	0.	2.62-09	8.51-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.14-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	1.47-08	1.64-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	0.	0.	1.50-07	3.87-09
4.00 01	0.	0.	0.	0.	0.	0.	1.67-09	5.72-08
6.00 01	0.	0.	0.	0.	0.	0.	2.30-13	6.71-09
8.00 01	0.	0.	0.	0.	0.	0.	1.68-14	6.83-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.24-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	4.08-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	7.80-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.05-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	9.36-09	1.23-08
	0.	0.	0.	0.	0.	0.	2.32-09	1.40-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	8.59-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.04-09
6.00 01	0.	0.	0.	0.	0.	0.	6.04-13	4.71-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.44-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.32-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.22-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.03-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.90-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	1.61-13	9.18-10
	0.	0.	0.	0.	0.	0.	1.58-13	5.11-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	7.59-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.97-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.74-12
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.31-12
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	5.91-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.38-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.00-10
	0.	0.	0.	0.	0.	0.	0.	6.11-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	6.21-12
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.82-12
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.07-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	5.18-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.90-14
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.79-13
	0.	0.	0.	0.	0.	0.	0.	2.64-12
	0.	0.	0.	0.	0.	0.	0.	1.73-12

2505657046 01 0232744473 01

AIR SCATTERING 5.19 02 ENERGY 4.00 ANGLE 1.35 02 DIST. 3.05 02

3.80 01	1.75 03	0.	0.	5.10 04	5.00 01	1.80 03		

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
0.	0.	0.	0.	0.	0.	0.	2.36-08	
0.	0.	0.	0.	0.	0.	0.	7.07-09	
0.	0.	0.	0.	0.	0.	0.	4.91-10	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							2.78-09	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
8.06-11	1.79-10	2.18-10	3.62-10	1.34-07	7.21-13	1.37-23	1.70-08	4.15-09
1.98-10	2.67-10	2.82-10	1.85-10	4.54-11	9.50-12	2.12-24	4.78-09	5.82-10
5.29-10	8.43-10	1.79-10	3.05-10	6.07-11	2.38-14	8.81-26	5.90-10	1.11-10
2.21-10	4.18-10	1.99-10	2.14-10	8.39-12	7.92-15	1.03-24	9.10-11	1.76-11
9.14-11	2.91-10	3.28-10	5.78-10	1.79-11	3.59-14	2.56-28	4.26-11	1.05-11
2.75-10	5.63-11	3.34-10	2.88-10	1.72-11	2.34-14	1.14-25	6.37-11	1.89-11
3.46-10	2.60-10	1.66-10	5.26-11	1.04-10	3.15-14	2.12-24	4.24-11	1.17-11
1.25-10	2.94-10	1.75-10	9.99-11	1.46-11	1.88-14	1.31-23	2.40-11	7.86-12
1.75-10	6.77-11	1.79-09	8.75-11	1.77-11	1.40-14	3.54-25	5.74-11	3.01-11
4.99-13	3.43-11	5.38-11	1.88-11	2.34-12	4.86-16	2.84-25	2.87-12	1.31-12
4.39-10	6.02-10	7.04-10	4.15-10	8.18-09	1.73-12	5.83-24		
7.33-11	1.14-10	2.28-10	1.40-10	8.10-09	1.69-12	2.67-24	2.09-09	2.76-10

PHI 45 TO 90 DEGREES

1.27-10	2.44-10	4.93-10	3.51-10	2.55-11	1.37-12	6.11-23	7.21-10	6.48-10
2.95-10	1.22-10	2.30-10	6.84-11	6.28-12	2.02-14	2.82-23	1.12-10	6.18-11
5.24-11	1.67-10	7.94-10	5.15-10	1.85-11	6.70-14	1.32-23	7.39-11	2.47-11
1.86-10	5.50-11	2.13-10	1.54-10	7.30-11	1.55-13	6.18-21	4.09-11	1.32-11
7.76-10	1.14-09	1.60-10	2.24-10	1.12-11	4.72-14	8.83-25	9.93-11	4.36-11
2.11-10	3.10-10	3.31-10	2.14-11	1.52-12	1.78-14	2.32-22	3.22-11	8.59-12
4.78-10	1.34-10	1.96-10	6.56-10	7.50-12	3.05-13	5.77-24	4.81-11	2.34-11
9.37-11	3.55-10	1.78-10	5.57-11	1.84-12	2.45-15	1.02-22	2.35-11	1.17-11
1.76-10	4.31-11	6.95-11	4.84-11	2.83-08	7.58-14	1.96-23	3.57-10	3.40-10
0.	1.09-10	5.93-11	3.22-11	1.08-13	1.54-16	5.41-30	5.83-12	2.78-12
5.16-10	5.03-10	5.63-10	5.02-10	4.95-09	2.79-13	2.10-21		
1.65-10	1.57-10	1.92-10	1.78-10	4.92-09	1.35-13	2.02-21	2.03-10	7.39-11

PHI 90 TO 135 DEGREES

2.19-10	1.68-10	1.12-10	9.22-11	7.27-11	1.39-14	4.60-25	8.49-11	5.79-11
1.75-10	3.40-10	1.22-10	1.32-10	2.59-12	3.06-15	1.06-24	5.14-11	2.17-11
1.06-10	2.15-10	1.70-10	9.84-11	2.79-11	4.57-14	3.05-23	2.05-11	4.86-12
2.23-10	1.76-10	3.34-10	1.17-10	2.35-09	3.37-13	3.96-20	5.79-11	2.51-11
6.04-10	4.49-11	1.34-10	5.47-10	8.91-11	7.61-14	1.48-26	5.03-11	3.32-11
1.84-10	5.66-11	2.65-11	2.72-11	3.18-11	2.65-13	3.30-27	1.45-11	7.41-12
3.55-11	4.29-11	9.17-11	2.69-11	5.78-11	2.18-14	2.68-25	6.97-12	1.85-12
2.19-10	3.45-11	2.21-10	7.69-11	1.67-11	9.71-13	3.39-21	2.11-11	1.18-11
4.47-12	3.11-11	7.00-11	1.34-10	4.62-12	2.10-15	4.66-22	5.19-12	1.83-12
1.68-12	1.28-11	9.94-12	6.03-12	6.09-12	1.33-17	2.11-21	9.12-13	4.28-13
3.52-10	2.31-10	3.11-10	2.45-10	8.24-10	4.48-13	1.40-20		
1.15-10	4.84-11	7.89-11	8.27-11	6.47-10	2.73-13	1.30-20	5.85-11	1.29-11

PHI 135 TO 180 DEGREES

7.12-11	5.93-10	3.03-10	1.43-10	1.10-11	1.26-14	2.59-22	3.57-11	1.82-11
3.65-11	1.48-10	2.82-10	1.71-10	6.04-11	1.10-13	2.63-22	1.73-11	5.31-12
6.44-10	2.01-10	1.60-10	2.81-11	3.07-11	3.18-13	9.11-24	5.05-11	2.78-11
2.26-10	8.49-12	5.05-10	7.54-11	1.17-09	1.88-15	6.56-28	4.12-11	1.93-11
1.07-10	7.85-12	6.73-11	1.50-11	1.58-11	2.19-14	3.50-19	8.58-12	3.90-12
1.31-10	1.00-11	4.10-11	5.58-10	7.34-12	3.16-14	2.27-18	1.77-11	8.56-12
7.73-11	1.56-10	5.65-10	7.31-11	4.57-11	1.39-13	8.50-23	2.59-11	1.27-11
5.51-10	2.62-10	6.60-11	6.62-11	2.69-11	1.49-14	2.82-25	4.54-11	3.02-11
9.55-11	1.57-10	1.42-10	8.70-11	5.68-12	2.25-13	2.79-25	1.62-11	5.57-12
6.78-14	1.82-13	9.53-11	6.92-10	8.08-13	7.91-17	2.19-28	1.27-11	1.02-11
4.85-10	2.69-10	5.21-10	2.68-10	4.29-10	2.03-13	4.56-19		
1.90-10	8.32-11	1.92-10	9.60-11	3.59-10	1.12-13	4.56-19	6.07-11	1.41-11
							3.79-09	4.89-10

AIR SCATTERING 5.20 02 ENERGY 4.00 ANGLE 1.80 02 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	4.90-07
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	2.96-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	0.	0.	5.82-12	3.15-07
4.00 01	0.	0.	0.	0.	0.	0.	2.16-13	3.67-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.71-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.97-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	3.89-13	1.97-08
	0.	0.	0.	0.	0.	0.	2.09-13	2.68-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.35-11	5.48-08
4.00 01	0.	0.	0.	0.	0.	0.	2.05-15	3.42-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.12-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.25-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.11-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	8.65-13
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	1.42-12	3.44-09
	0.	0.	0.	0.	0.	0.	8.92-13	2.49-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.44-11	9.66-09
4.00 01	0.	0.	0.	0.	0.	0.	9.33-15	3.90-10
6.00 01	0.	0.	0.	0.	0.	0.	6.45-16	2.77-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.67-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.87-13
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.26-13
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.58-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	8.69-13	7.30-10
	0.	0.	0.	0.	0.	0.	5.05-13	2.81-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.29-12	6.28-09
4.00 01	0.	0.	0.	0.	0.	0.	6.28-12	9.72-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	5.55-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	7.02-11
9.00 01	0.	0.	0.	0	0.	0.	0.	1.23-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.90-14
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.12-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	1.17-12	7.23-10
	0.	0.	0.	0.	0.	0.	1.05-12	1.66-10

023274447301 101326432451

AIR SCATTERING 5.20 02 ENERGY 4.00 ANGLE 1.80 02 DIST. 3.05 02
3.20 01 1.76 03 0. 0. 5.00 04 5.00 01 1.80 03

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	3.92-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	2.37-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
7.66-10	2.72-10	1.45-10	2.34-10	1.13-11	2.59-13	2.43-26	2.53-08	3.48-09
1.72-10	4.79-10	1.38-10	9.31-11	1.33-11	8.50-15	2.30-25	3.26-10	2.49-10
8.14-11	1.09-10	2.31-10	1.82-10	7.13-10	1.99-12	2.17-25	3.82-11	1.05-11
1.76-10	3.24-11	7.95-10	4.13-11	1.16-11	7.94-13	8.16-25	3.39-11	1.65-11
5.43-11	7.54-10	1.77-11	1.57-09	8.65-12	2.22-14	1.06-22	5.45-11	2.18-11
2.61-11	1.99-11	1.45-10	2.78-11	1.00-10	3.45-16	4.84-26	7.38-12	2.56-12
2.71-10	8.11-11	8.07-11	8.62-11	1.20-10	1.26-15	8.32-21	2.38-11	6.97-12
3.32-10	3.46-11	1.73-10	1.45-10	1.93-12	1.88-14	6.33-26	2.75-11	1.24-11
8.70-11	2.53-11	2.61-11	1.50-11	2.48-12	2.88-15	2.76-29	7.01-12	3.89-12
3.58-11	1.84-11	8.94-11	3.38-10	2.09-10	1.75-14	1.28-21	1.25-11	6.34-12
3.63-10	3.15-10	4.64-10	4.38-10	2.68-10	8.18-13	2.81-21		
8.22-11	8.61-11	2.22-10	2.07-10	1.90-10	7.87-13	2.72-21	1.63-09	2.15-10

PHI 45 TO 90 DEGREES

1.78-10	4.25-10	3.09-10	3.36-11	1.39-10	4.85-13	4.00-26	4.42-09	3.31-09
1.62-10	1.50-10	3.42-10	1.23-10	2.26-10	7.51-14	8.99-21	5.53-11	1.10-11
1.93-10	6.70-10	2.83-10	6.87-11	1.43-11	9.16-14	4.23-25	5.26-11	1.39-11
4.48-10	2.48-10	1.43-09	1.88-10	4.48-11	1.18-11	1.04-25	8.35-11	3.23-11
6.15-11	2.86-09	2.41-10	8.71-11	2.49-12	7.71-16	3.02-23	1.14-10	6.05-11
1.52-10	7.95-11	4.97-11	2.61-10	3.82-12	2.53-13	1.72-25	1.72-11	7.85-12
2.02-10	1.40-10	6.61-11	3.85-11	6.83-11	4.36-15	2.61-24	2.01-11	7.68-12
3.11-11	2.06-10	1.47-10	7.76-11	5.76-11	3.63-15	1.23-21	1.47-11	5.88-12
2.29-11	1.73-12	5.17-11	2.73-11	3.79-12	3.14-15	2.25-27	3.13-12	1.22-12
2.28-11	3.78-12	1.89-10	1.01-10	2.93-11	4.00-15	3.72-27	7.91-12	4.41-12
3.53-10	9.23-10	7.50-10	2.07-10	1.07-10	3.98-12	1.74-21		
8.57-11	3.10-10	3.90-10	5.45-11	4.48-11	3.87-12	1.26-21	3.52-10	2.00-10

PHI 90 TO 135 DEGREES

2.49-10	3.87-10	8.82-11	9.90-10	6.85-12	2.92-16	2.68-27	8.20-10	3.69-10
9.20-10	1.22-09	5.09-10	1.18-10	1.14-11	1.45-12	2.18-22	1.44-10	7.01-11
1.98-10	7.08-10	5.31-10	1.17-10	2.21-10	3.60-14	5.55-25	7.67-11	2.13-11
9.35-11	1.95-10	1.51-10	1.71-10	1.76-11	1.64-13	4.75-22	2.04-11	5.59-12
5.27-11	4.64-11	9.43-11	8.39-10	7.53-12	5.00-14	5.41-23	1.97-11	9.74-12
1.52-10	4.00-10	2.39-10	1.34-10	5.56-11	4.37-15	1.06-25	3.19-11	1.42-11
1.53-10	5.91-10	1.78-10	3.14-10	4.32-11	6.61-15	1.14-22	4.09-11	2.15-11
1.52-10	2.95-10	3.49-10	2.15-11	1.05-10	2.16-15	1.13-28	2.98-11	1.65-11
3.77-11	9.45-11	1.55-10	2.58-09	1.56-11	7.81-15	4.32-26	4.82-11	3.41-11
2.59-12	2.02-12	9.12-11	1.52-10	6.66-18	2.89-15	3.20-33	4.69-12	2.65-12
3.91-10	8.52-10	5.25-10	9.00-10	1.23-10	3.28-13	2.40-22		
1.38-10	2.99-10	1.70-10	4.20-10	5.31-11	2.77-13	1.32-22	1.40-10	3.15-1

PHI 135 TO 180 DEGREES

5.47-10	1.05-09	1.83-10	1.00-10	7.58-11	9.23-16	1.35-19	5.80-10	1.69-1
1.61-09	1.70-10	8.28-11	1.26-10	1.12-11	7.86-16	4.57-23	1.85-10	8.49-1
3.32-10	1.75-10	9.51-11	2.16-10	3.51-11	1.30-13	1.33-21	7.66-11	2.11-1
9.63-11	1.33-10	7.03-11	1.11-09	4.72-11	2.15-13	2.11-23	3.52-11	1.60-1
1.78-10	8.23-11	2.53-11	4.65-10	1.33-10	7.53-13	3.67-22	2.38-11	1.01-1
1.93-10	9.75-11	1.30-10	3.25-10	1.55-11	3.13-15	4.42-24	2.33-11	1.02-1
4.94-11	5.18-10	2.32-10	8.20-11	2.90-11	1.23-12	3.32-28	2.88-11	1.39-1
3.54-10	9.78-11	1.71-10	4.10-10	2.09-11	1.26-14	1.03-25	3.62-11	1.82-1
2.19-10	1.07-10	3.28-10	9.88-11	2.50-11	1.90-13	7.08-28	2.67-11	9.35-1
0.	5.12-12	2.86-10	2.13-11	1.64-12	6.40-15	3.74-24	7.39-12	5.04-1
6.45-10	4.28-10	2.96-10	7.41-10	7.66-11	6.74-13	8.57-21		
2.42-10	1.29-10	7.31-11	3.57-10	2.86-11	4.23-13	8.12-21	1.31-10	2.33-1
							3.54-09	4.87-1

AIR SCATTERING 5.21 02 ENERGY 2.00 ANGLE 1.00 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	5.68-05	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	1.11-05	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	9.28-06	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	3.14-05	0.
	3.42-06	0.	2.95-06	0.	0.	2.47-06	1.89-06	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	3.61-05	0.	0.	0.	0.	0.	0.	1.03-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.24-10
6.00 01	0.	0.	7.06-06	0.	0.	0.	0.	2.65-08
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.84-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	7.31-10
1.00 02	0.	0.	0.	0.	0.	0.	3.72-13	1.29-09
1.20 02	0.	0.	0.	0.	0.	0.	1.25-10	1.50-09
1.40 02	0.	0.	0.	0.	0.	5.91-06	3.79-10	8.92-10
1.60 02	0.	0.	0.	0.	0.	3.92-22	3.34-09	2.16-10
1.80 02	0.	0.	0.	0.	0.	4.35-12	2.00-05	1.02-09
	2.18-06	0.	1.88-06	0.	0.	1.57-06	1.21-06	8.44-09
	1.01-06	0.	1.88-06	0.	0.	1.57-06	5.91-07	7.02-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.40-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.96-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.96-09
8.00 01	0.	0.	0.	0.	0.	0.	4.83-14	2.01-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	7.49-10
1.00 02	0.	0.	0.	0.	0.	0.	2.28-13	2.65-09
1.20 02	0.	0.	0.	0.	0.	2.08-12	3.46-11	8.60-10
1.40 02	0.	0.	0.	0.	0.	9.93-11	2.35-10	1.59-09
1.60 02	0.	0.	0.	0.	0.	5.06-12	4.45-09	5.16-10
1.80 02	0.	0.	0.	0.	2.39-10	1.22-09	1.23-08	6.47-10
	0.	0.	0.	0.	1.44-11	1.02-10	1.59-09	2.63-09
	0.	0.	0.	0.	1.44-11	7.32-11	5.91-10	8.06-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.50-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.35-08
6.00 01	0.	0.	0.	0.	0.	0.	2.56-11	1.26-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.14-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.76-08
1.00 02	0.	0.	0.	0.	0.	0.	2.99-10	1.41-10
1.20 02	0.	0.	0.	0.	4.66-13	2.79-10	1.25-11	1.74-09
1.40 02	0.	0.	0.	0.	1.92-13	5.00-14	3.93-10	1.13-08
1.60 02	0.	0.	0.	0.	1.66-11	8.00-11	6.80-09	3.82-10
1.80 02	0.	0.	0.	0.	3.79-13	9.52-11	1.02-08	6.91-10
	0.	0.	0.	0.	3.11-12	1.11-10	1.97-09	9.90-09
	0.	0.	0.	0.	2.71-12	9.19-11	8.48-10	4.25-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.17-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.72-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.56-09
8.00 01	0.	0.	0.	0.	0.	0.	9.13-12	3.81-10
9.00 01	0.	0.	0.	0.	0.	0.	2.79-12	3.08-10
1.00 02	0.	0.	0.	0.	0.	0.	6.61-11	3.85-10
1.20 02	0.	0.	0.	0.	0.	3.26-11	8.59-11	5.47-10
1.40 02	0.	0.	0.	0.	0.	1.13-12	6.08-10	3.62-10
1.60 02	0.	0.	0.	0.	1.69-12	4.85-11	3.26-09	3.90-10
1.80 02	0.	0.	0.	0.	2.28-11	2.88-10	2.04-08	3.84-10
	0.	0.	0.	0.	1.67-12	3.67-11	2.00-09	1.18-09
	0.	0.	0.	0.	9.72-13	1.98-11	7.81-10	2.65-10

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AIR SCATTERING 5.21 02 ENERGY 2.00 ANGLE 1.00 DIST. 3.05 02
3.70 01 1.75 03 0. 0. 5.37 04 5.00 01 1.80 03

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	3.41-05
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	4.44-06
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.02-06
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	2.20-06
0.	0.	0.	0.	0.	0.	0.	3.64-06

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
1.15-09	1.03-10	4.59-10	1.91-10	3.23-11	2.32-19	1.44-28	2.17-05	1.00-05
4.95-10	5.78-10	2.39-10	7.45-11	1.90-11	5.04-16	5.68-22	4.36-11	1.86-11
1.41-10	1.42-10	1.23-09	6.20-12	2.65-11	3.88-16	1.89-21	2.83-06	2.83-06
1.74-10	3.73-10	2.08-10	7.43-10	6.61-11	2.20-12	3.63-24	4.67-11	1.48-11
2.42-09	1.71-10	4.83-10	3.96-10	5.33-13	3.30-17	1.27-24	1.41-10	7.66-11
1.46-09	2.65-10	3.28-10	6.12-11	2.43-12	8.02-13	2.56-26	1.31-10	6.35-11
4.49-10	4.99-10	1.52-10	7.71-11	9.74-12	6.94-14	2.31-24	1.16-10	4.79-11
8.29-11	3.21-10	2.54-10	4.40-11	1.68-10	6.84-16	2.81-22	6.50-07	6.50-07
5.07-10	4.20-10	2.63-10	5.38-11	6.75-10	2.87-16	7.83-22	2.85-10	9.80-11
4.32-10	6.92-10	2.74-10	5.16-11	9.94-12	1.09-15	8.63-24	1.40-06	6.86-07
1.21-09	7.04-10	7.85-10	3.96-10	2.00-10	8.81-13	8.14-22		
4.36-10	1.61-10	2.94-10	2.25-10	1.25-10	7.37-13	5.35-22	2.32-06	9.80-07

PHI 45 TO 90 DEGREES

5.75-10	1.27-10	1.58-11	3.92-11	4.24-13	6.32-16	6.00-25	2.57-11	1.37-11
1.80-10	6.58-11	5.45-11	2.87-10	6.79-12	1.66-14	1.17-20	2.17-11	1.19-11
1.77-10	1.01-10	2.17-10	1.83-09	3.75-12	6.73-15	4.46-25	1.21-10	9.01-11
3.61-10	1.87-10	2.54-10	1.88-11	1.91-11	1.66-16	2.43-26	1.24-10	7.00-11
6.70-10	1.20-09	9.77-11	1.56-10	3.09-12	8.60-16	6.91-24	9.40-11	2.74-11
1.20-10	1.02-09	2.00-10	4.22-11	1.45-12	4.91-15	2.13-23	1.66-10	9.53-11
2.24-10	1.61-10	4.02-10	1.05-10	8.03-12	6.06-15	2.55-19	6.67-11	2.04-11
1.45-09	6.50-10	4.32-10	5.30-10	1.07-11	1.53-15	2.52-25	1.88-10	6.01-11
8.57-10	1.10-09	3.29-10	6.66-11	8.78-12	3.04-14	2.83-24	4.02-10	2.10-10
5.63-10	3.60-10	9.06-10	2.00-10	2.32-12	2.02-15	3.04-23	1.11-09	3.58-10
1.02-09	9.31-10	5.60-10	5.63-10	1.64-11	1.35-14	8.52-20		
2.15-10	1.76-10	1.31-10	2.87-10	5.67-12	6.73-15	7.64-20	3.32-10	5.95-11

PHI 90 TO 135 DEGREES

2.18-10	6.02-10	3.63-11	5.34-11	6.14-14	6.75-19	2.44-26	9.84-11	7.03-11
7.51-10	2.14-11	3.70-11	1.94-11	2.65-12	1.84-16	5.34-21	7.05-10	6.72-10
1.26-09	1.66-10	1.92-10	3.33-11	3.56-12	9.24-18	1.56-28	1.18-10	7.65-11
3.05-10	7.29-10	2.14-10	9.07-11	2.09-11	7.83-17	6.68-23	9.08-11	3.07-11
1.17-09	6.04-10	4.80-10	6.59-11	4.44-10	8.55-15	2.53-20	9.51-10	8.77-10
1.27-10	1.32-10	3.87-10	8.43-11	1.46-11	4.38-16	3.26-23	4.44-11	2.12-11
3.22-10	4.77-10	5.20-10	6.31-11	6.70-12	1.57-16	1.14-25	1.53-10	5.63-11
8.36-10	8.38-10	1.81-10	1.53-10	4.48-10	9.01-17	6.89-25	6.52-10	3.39-10
2.09-10	1.00-09	5.11-10	7.52-11	6.93-12	8.18-17	5.21-23	5.49-10	3.26-10
5.79-10	4.23-10	3.00-10	7.86-11	9.87-12	3.57-15	6.17-23	7.99-10	2.83-10
1.20-09	1.03-09	6.05-10	1.50-10	2.11-10	1.93-15	5.36-21		
3.39-10	2.36-10	1.52-10	3.20-11	1.40-10	1.38-15	4.46-21	7.29-10	2.22-10

PHI 135 TO 180 DEGREES

5.50-11	4.87-11	5.16-11	2.08-11	4.38-12	6.83-20	4.20-30	6.29-11	5.30-11
1.42-11	2.18-11	6.53-11	2.31-11	3.83-12	5.94-18	7.06-27	2.62-11	1.17-11
5.93-10	8.16-11	3.91-10	5.46-11	6.25-12	4.90-15	6.95-28	1.10-10	4.50-11
1.59-10	5.21-10	5.46-10	6.24-11	6.11-11	2.47-15	4.32-27	5.01-11	1.63-11
3.66-09	1.28-10	9.34-11	1.38-10	2.65-12	9.21-16	1.46-22	1.54-10	1.30-10
3.06-09	1.49-10	2.32-10	7.38-11	1.35-11	5.46-15	6.39-27	1.43-10	7.97-11
1.01-09	5.56-10	5.88-10	1.31-10	8.65-12	7.82-17	1.68-22	1.00-10	2.48-11
2.10-09	2.48-10	7.03-10	1.06-10	2.34-11	4.70-17	1.59-24	1.58-10	4.65-11
3.21-10	3.15-10	1.58-09	3.74-10	1.81-11	9.44-17	2.24-28	3.08-10	8.28-11
7.18-10	7.35-10	5.37-10	1.87-11	2.10-12	1.66-17	1.20-24	1.54-09	8.67-10
2.37-09	5.93-10	1.04-09	2.15-10	3.77-11	3.38-15	8.07-23		
1.05-09	1.50-10	2.68-10	6.29-11	1.92-11	1.74-15	6.04-23	3.26-10	7.10-11
							3.64-06	1.54-06

AIR SCATTERING 5.22 02 ENERGY 2.00 ANGLE 1.50 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	1.34-06	1.11-06	0.	0.	0.	0.	0.	0.
4.00 01	0.	1.02-07	3.11-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	4.96-08	2.79-07	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	2.54-07	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	1.79-07	0.	0.
1.00 02	0.	0.	0.	0.	0.	1.59-07	0.	0.
1.20 02	0.	0.	0.	0.	0.	2.83-07	0.	0.
1.40 02	0.	0.	0.	0.	0.	1.95-07	8.78-08	0.
1.60 02	0.	0.	0.	0.	0.	0.	5.57-07	0.
1.80 02	0.	0.	0.	0.	0.	0.	2.62-07	0.
	8.11-08	8.44-08	6.72-08	7.43-08	8.29-08	2.03-07	1.36-07	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	8.56-07	7.04-07	0.	0.	0.	0.	0.	4.71-11
4.00 01	0.	6.50-08	1.98-07	0.	0.	0.	0.	4.92-10
6.00 01	0.	0.	3.16-08	1.78-07	0.	0.	0.	5.88-10
8.00 01	0.	0.	0.	0.	1.62-07	0.	4.22-12	5.44-09
9.00 01	0.	0.	0.	0.	0.	1.14-07	1.95-12	2.54-10
1.00 02	0.	0.	0.	0.	0.	1.01-07	1.68-11	2.90-09
1.20 02	0.	0.	0.	0.	0.	1.80-07	1.63-09	1.61-09
1.40 02	0.	0.	0.	0.	0.	1.24-07	5.66-08	1.05-09
1.60 02	0.	0.	0.	0.	0.	1.48-10	3.84-07	8.52-10
1.80 02	0.	0.	0.	0.	9.20-15	2.39-09	1.90-07	4.64-09
	5.16-08	5.38-08	4.28-08	4.73-08	5.28-08	1.29-07	9.38-08	3.80-09
	1.40-08	2.40-08	1.91-08	2.73-08	3.05-08	4.00-08	1.46-08	1.69-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	4.20-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	6.64-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	5.11-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	5.60-10
9.00 01	0.	0.	0.	0.	0.	0.	4.11-12	2.81-09
1.00 02	0.	0.	0.	0.	0.	0.	4.18-12	1.30-09
1.20 02	0.	0.	0.	0.	0.	4.02-12	2.97-10	1.69-09
1.40 02	0.	0.	0.	0.	0.	2.27-10	6.41-10	8.17-10
1.60 02	0.	0.	0.	0.	2.22-14	2.50-11	4.68-09	1.00-09
1.80 02	0.	0.	0.	0.	0.	9.34-13	7.72-09	6.70-10
	0.	0.	0.	0.	3.86-15	6.61-11	1.55-09	3.19-09
	0.	0.	0.	0.	3.86-15	5.50-11	3.87-10	1.25-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	5.96-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.17-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.29-10
8.00 01	0.	0.	0.	0.	0.	0.	1.65-13	8.19-10
9.00 01	0.	0.	0.	0.	0.	0.	2.82-10	2.94-08
1.00 02	0.	0.	0.	0.	0.	0.	9.07-12	3.33-10
1.20 02	0.	0.	0.	0.	0.	2.83-14	5.28-11	1.57-09
1.40 02	0.	0.	0.	0.	0.	4.07-11	5.36-10	8.50-10
1.60 02	0.	0.	0.	0.	2.24-16	1.24-11	4.16-10	9.11-11
1.80 02	0.	0.	0.	0.	0.	1.86-09	1.48-09	8.87-09
	0.	0.	0.	0.	3.88-17	1.25-10	3.72-10	6.83-09
	0.	0.	0.	0.	3.88-17	1.05-10	1.24-10	5.02-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.33-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.11-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	4.31-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	4.64-09
9.00 01	0.	0.	0.	0.	0.	0.	2.15-14	1.66-10
1.00 02	0.	0.	0.	0.	0.	0.	4.09-12	6.57-10
1.20 02	0.	0.	0.	0.	0.	0.	3.72-11	3.18-10
1.40 02	0.	0.	0.	0.	0.	3.54-13	1.44-11	1.05-09
1.60 02	0.	0.	0.	0.	1.50-12	3.73-11	4.53-10	1.89-10
1.80 02	0.	0.	0.	0.	0.	5.74-11	1.89-09	2.47-10
	0.	0.	0.	0.	2.61-13	1.00-11	2.09-10	2.28-09
	0.	0.	0.	0.	2.61-13	7.16-12	6.18-11	1.50-09

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AIR SCATTERING 5.22 02 ENERGY 2.00 ANGLE 1.50 01 DIST. 3.05 02

4.80 01	1.74 03	0.	0.	5.38 04	5.00 01	1.80 03		

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	1.14-06
0.	0.	0.	0.	0.	0.	0.	1.55-07
0.	0.	0.	0.	0.	0.	0.	7.57-08
0.	0.	0.	0.	0.	0.	0.	3.81-08
0.	0.	0.	0.	0.	0.	0.	1.97-08
0.	0.	0.	0.	0.	0.	0.	1.74-08
0.	0.	0.	0.	0.	0.	0.	3.11-08
0.	0.	0.	0.	0.	0.	0.	2.76-08
0.	0.	0.	0.	0.	0.	0.	3.90-08
0.	0.	0.	0.	0.	0.	0.	1.84-08
0.	0.	0.	0.	0.	0.	0.	1.60-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
1.67-10	1.16-10	1.43-10	1.88-10	7.75-13	2.47-18	4.90-29	7.25-07	1.74-07
3.91-10	3.71-10	3.28-10	1.29-10	7.50-12	3.38-15	3.95-20	9.87-08	4.41-08
2.66-11	2.42-10	3.39-10	9.19-11	4.65-12	7.76-17	8.47-25	4.82-08	2.41-08
9.39-09	2.09-10	2.17-10	1.51-10	9.56-12	8.70-16	1.30-21	2.49-08	1.40-08
2.37-10	2.17-10	1.35-10	1.24-10	1.44-11	3.99-15	2.00-27	1.26-08	1.25-08
4.28-10	3.73-10	7.23-11	8.59-11	8.21-12	1.61-18	4.85-25	1.13-08	1.11-08
7.62-09	3.35-10	2.24-10	8.05-11	1.17-11	2.69-16	7.44-25	2.03-08	9.03-09
4.86-10	4.85-10	3.55-10	7.48-11	2.82-11	3.87-16	1.11-26	1.77-08	6.13-09
6.98-10	1.21-09	5.73-10	8.88-11	2.82-12	1.01-15	8.75-26	2.70-08	4.72-09
1.36-09	7.48-10	6.00-11	7.55-11	8.79-11	7.64-15	1.78-23	1.39-08	1.22-09
6.08-09	7.99-10	5.33-10	2.10-10	2.68-11	2.41-15	7.28-21		
3.32-09	1.84-10	1.16-10	4.27-11	9.08-12	8.75-16	7.11-21	1.03-07	1.57-08

PHI 45 TO 90 DEGREES

7.89-11	1.27-10	4.57-10	2.37-11	4.55-12	3.53-17	5.73-26	3.63-11	2.15-11
3.82-11	7.19-11	1.01-10	9.89-11	3.04-12	4.44-16	8.07-27	3.38-10	3.27-10
5.19-10	7.24-10	4.48-10	3.57-10	4.76-12	5.49-14	1.23-20	7.42-11	2.30-11
3.00-10	3.91-10	1.25-10	5.33-11	5.67-12	3.68-17	2.86-21	5.13-11	1.15-11
4.36-10	6.93-10	9.53-11	1.87-11	9.72-13	1.97-16	1.08-25	1.75-10	8.21-11
3.63-10	9.13-11	1.24-10	7.73-11	5.73-12	5.66-15	5.82-23	8.36-11	4.29-11
1.24-09	1.58-09	1.31-10	5.98-11	2.16-11	1.79-14	1.67-20	1.92-10	6.47-11
9.50-10	2.97-10	3.35-10	2.38-09	3.79-12	1.06-16	6.20-21	1.83-10	5.47-11
7.99-10	1.10-09	2.77-10	8.50-11	1.17-12	9.31-16	1.68-22	4.42-10	1.30-10
8.35-10	6.84-10	2.18-10	9.12-12	4.82-12	4.94-16	3.32-24	6.32-10	2.83-10
1.23-09	1.32-09	4.37-10	8.16-10	1.36-11	2.18-14	1.14-20		
2.63-10	4.19-10	8.99-11	8.21-10	4.40-12	1.57-14	6.65-21	3.68-10	7.18-11

PHI 90 TO 135 DEGREES

2.57-11	2.89-13	4.21-10	3.52-12	7.08-13	3.07-15	6.64-29	1.24-11	6.27-12
1.94-10	5.82-11	1.00-10	3.82-10	9.69-12	1.49-15	1.00-22	3.51-11	1.33-11
4.96-09	8.41-11	1.07-10	7.45-11	2.49-12	3.51-15	1.10-24	1.90-10	1.76-10
1.75-10	2.32-09	3.14-10	5.64-10	5.75-12	4.31-15	8.06-27	1.15-10	5.47-11
1.72-10	6.42-09	1.51-10	2.50-10	5.48-12	4.24-18	2.30-25	1.66-09	1.45-09
1.11-10	1.21-10	3.55-10	2.45-11	6.21-11	7.48-14	2.25-24	3.21-11	8.15-12
1.53-10	6.82-10	7.75-10	7.63-11	1.92-12	4.34-16	3.74-21	1.20-10	3.65-11
6.78-10	2.63-10	1.89-10	6.29-11	4.59-11	1.90-14	1.22-23	1.20-10	3.79-11
1.13-09	7.12-10	2.87-10	3.52-10	7.05-12	1.10-15	1.08-23	1.02-10	2.90-11
5.05-10	1.44-10	1.96-10	2.65-10	2.07-12	3.91-16	1.04-24	7.80-10	3.86-10
1.92-09	2.35-09	6.26-10	4.37-10	3.02-11	2.12-14	1.24-21		
1.30-09	1.35-09	1.76-10	2.14-10	1.49-11	1.38-14	9.40-22	5.24-10	2.64-10

PHI 135 TO 180 DEGREES

4.74-10	9.16-11	1.79-10	1.63-11	4.99-12	4.30-15	2.18-28	2.97-11	1.79-11
1.23-09	1.11-10	9.05-11	3.71-11	1.20-11	3.90-18	3.70-26	6.99-11	4.26-11
4.73-10	5.47-10	4.44-10	1.02-10	1.25-10	2.11-15	5.05-23	6.28-11	2.52-11
3.92-09	2.13-10	5.06-10	4.68-11	3.40-11	2.16-14	1.82-23	3.89-10	2.66-10
1.04-10	5.47-11	1.15-09	1.09-09	2.60-11	2.03-14	3.54-20	4.74-11	2.10-11
1.25-09	7.05-10	2.85-10	6.91-11	1.69-11	8.94-15	1.07-20	1.02-10	4.82-11
2.86-09	4.05-10	3.86-10	8.24-11	2.41-11	9.53-16	5.08-22	1.40-10	8.09-11
1.24-09	2.97-10	3.10-10	3.41-11	1.10-12	6.68-14	2.70-23	1.12-10	4.61-11
8.84-10	8.58-10	7.03-10	1.21-11	1.07-12	1.11-16	1.17-24	1.12-10	3.95-11
7.52-10	1.11-09	1.12-10	6.33-11	1.62-11	3.35-15	2.78-24	2.08-10	6.62-11
3.34-09	7.99-10	8.96-10	2.93-10	6.34-11	3.13-14	8.19-21		
1.49-09	1.95-10	2.67-10	1.75-10	3.43-11	1.86-14	7.50-21	2.91-10	9.41-11
							1.63-07	2.47-08

AIR SCATTERING 5.23 02 ENERGY 2.00 ANGLE 3.00 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	4.54-07	4.16-07	0.	0.	0.	0.	0.
4.00 01	0.	0.	6.11-08	1.56-07	0.	0.	0.	0.
6.00 01	0.	0.	0.	4.78-08	1.16-07	0.	0.	0.
8.00 01	0.	0.	0.	0.	6.05-08	4.76-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	1.46-07	0.	0.
1.00 02	0.	0.	0.	0.	0.	8.45-08	0.	0.
1.20 02	0.	0.	0.	0.	0.	1.17-07	0.	0.
1.40 02	0.	0.	0.	0.	0.	5.95-09	1.80-07	0.
1.60 02	0.	0.	0.	0.	0.	0.	9.68-08	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	2.74-08	3.57-08	3.98-08	5.05-08	9.53-08	6.47-08	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	2.89-07	2.65-07	0.	0.	0.	0.	6.90-11
4.00 01	0.	0.	3.89-08	9.92-08	0.	0.	0.	9.40-11
6.00 01	0.	0.	0.	3.04-08	7.37-08	0.	0.	1.66-09
8.00 01	0.	0.	0.	0.	3.85-08	3.03-08	5.87-13	1.12-08
9.00 01	0.	0.	0.	0.	0.	9.31-08	6.33-11	4.41-09
1.00 02	0.	0.	0.	0.	0.	5.38-08	1.83-10	4.92-11
1.20 02	0.	0.	0.	0.	0.	7.44-08	8.19-09	6.75-10
1.40 02	0.	0.	0.	0.	0.	3.93-09	1.17-07	5.49-10
1.60 02	0.	0.	0.	0.	4.20-13	1.78-10	7.28-08	3.05-10
1.80 02	0.	0.	0.	0.	0.	1.73-12	1.88-09	3.86-10
	0.	1.74-08	2.27-08	2.53-08	3.22-08	6.07-08	4.66-08	5.34-09
	0.	7.10-09	7.17-09	1.03-08	1.22-08	1.37-08	5.81-09	3.29-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	9.41-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.07-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.86-11
8.00 01	0.	0.	0.	0.	0.	0.	2.39-15	1.65-09
9.00 01	0.	0.	0.	0.	0.	0.	1.89-14	6.98-09
1.00 02	0.	0.	0.	0.	0.	4.61-12	9.74-11	1.20-09
1.20 02	0.	0.	0.	0.	0.	0.	3.16-11	1.48-09
1.40 02	0.	0.	0.	0.	0.	1.82-13	3.10-09	6.28-10
1.60 02	0.	0.	0.	0.	3.14-11	3.05-12	8.11-10	1.27-10
1.80 02	0.	0.	0.	0.	0.	1.00-12	9.32-10	1.76-09
	0.	0.	0.	0.	5.45-12	1.44-12	1.05-09	3.11-09
	0.	0.	0.	0.	5.20-12	8.53-13	6.47-10	1.09-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.44-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	8.72-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.03-10
8.00 01	0.	0.	0.	0.	0.	0.	7.67-12	1.27-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.06-10
1.00 02	0.	0.	0.	0.	0.	0.	4.18-14	1.10-09
1.20 02	0.	0.	0.	0.	0.	0.	2.25-10	4.65-10
1.40 02	0.	0.	0.	0.	0.	1.66-11	1.45-10	9.44-10
1.60 02	0.	0.	0.	0.	1.13-12	1.71-12	2.16-10	2.89-10
1.80 02	0.	0.	0.	0.	0.	5.56-12	2.78-10	1.89-10
	0.	0.	0.	0.	1.96-13	5.04-12	1.69-10	1.40-09
	0.	0.	0.	0.	1.96-13	4.11-12	6.73-11	3.51-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.89-12
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.75-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.06-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	6.64-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.96-10
1.00 02	0.	0.	0.	0.	0.	0.	2.87-14	3.44-10
1.20 02	0.	0.	0.	0.	0.	0.	1.84-12	1.09-09
1.40 02	0.	0.	0.	0.	0.	7.71-12	8.30-11	2.50-10
1.60 02	0.	0.	0.	0.	7.17-15	0.	1.13-10	7.01-10
1.80 02	0.	0.	0.	0.	0.	0.	3.05-10	9.94-11
	0.	0.	0.	0.	1.24-15	2.05-12	6.06-11	1.43-09
	0.	0.	0.	0.	1.24-15	1.63-12	3.31-11	5.53-10

207417073211 307434006561

AIR SCATTERING 5.23 02 ENERGY 2.00 ANGLE 3.00 01 DIST. 3.05 02
2.90 01 1.76 03 0. 0. 5.33 04 5.00 01 1.80 03

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	3.03-07
0.	0.	0.	0.	0.	0.	0.	5.56-08
0.	0.	0.	0.	0.	0.	0.	2.69-08
0.	0.	0.	0.	0.	0.	0.	1.43-08
0.	0.	0.	0.	0.	0.	0.	1.61-08
0.	0.	0.	0.	0.	0.	0.	9.29-09
0.	0.	0.	0.	0.	0.	0.	1.28-08
0.	0.	0.	0.	0.	0.	0.	1.33-08
0.	0.	0.	0.	0.	0.	0.	6.78-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	5.30-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
2.62-10	2.73-11	4.56-10	2.02-11	5.57-14	7.58-24	0.	1.93-07	5.33-08
1.52-10	1.18-09	1.01-10	3.59-11	7.16-13	8.13-16	3.45-28	3.54-08	1.34-08
2.38-10	2.07-10	1.56-10	2.74-10	2.80-11	3.30-17	6.10-20	1.72-08	6.99-09
2.86-10	8.71-10	4.91-10	1.07-09	1.91-11	1.17-15	5.65-21	9.72-09	4.33-09
1.53-09	2.01-10	1.08-10	5.59-11	2.05-11	5.38-16	8.45-27	1.05-08	5.13-09
4.40-10	3.64-09	3.42-10	2.09-11	6.99-12	6.06-15	2.77-19	6.04-09	3.42-09
1.71-09	4.06-10	6.93-10	8.16-11	8.98-12	1.64-15	4.26-24	8.87-09	2.31-09
9.11-10	5.73-10	1.44-09	2.14-10	1.04-10	2.30-17	3.37-26	8.73-09	1.33-09
5.21-10	1.21-09	5.70-09	3.52-11	5.07-12	6.14-17	6.42-25	5.29-09	4.27-10
5.91-10	8.04-10	4.30-10	1.27-11	1.47-12	4.47-18	3.62-28	2.01-10	6.68-11
1.47-09	1.76-09	1.95-09	5.33-10	5.02-11	2.23-15	6.62-20		
5.19-10	6.17-10	1.01-09	3.33-10	2.81-11	1.11-15	5.14-20	3.46-08	4.74-09

PHI 45 TO 90 DEGREES

1.47-11	5.15-10	1.89-10	6.89-12	6.48-13	3.48-18	9.70-30	2.15-11	1.24-11
1.39-10	7.62-11	1.14-10	6.62-11	4.66-13	7.82-17	4.69-27	1.13-10	9.31-11
3.29-10	2.45-10	2.03-10	8.54-11	3.33-12	2.79-16	1.95-27	2.41-11	7.78-12
2.29-10	4.44-10	1.15-09	1.20-10	4.08-11	4.25-17	1.61-20	1.26-10	7.62-11
8.28-10	1.76-10	7.61-11	5.30-11	1.65-11	3.34-13	5.15-23	3.85-10	2.52-10
1.02-08	9.83-11	1.80-09	1.41-11	1.40-12	1.15-16	2.40-23	4.72-10	3.55-10
3.35-10	2.28-10	7.34-09	2.75-10	1.25-11	3.35-16	1.20-23	2.43-10	1.19-10
3.33-10	2.48-10	7.25-10	1.58-10	9.50-12	3.28-15	9.07-24	2.82-10	1.85-10
3.91-10	1.51-09	1.15-10	2.07-11	1.31-11	4.95-14	8.95-25	1.21-10	3.55-11
2.64-10	1.07-09	4.30-10	9.55-10	1.25-11	5.42-17	7.21-26	2.07-10	8.61-11
2.38-09	7.69-10	3.42-09	2.78-10	2.71-11	6.77-14	5.28-21		
1.71-09	2.40-10	2.02-09	7.95-11	1.20-11	5.86-14	5.26-21	4.05-10	1.05-10

PHI 90 TO 135 DEGREES

4.09-10	1.14-11	2.92-10	4.41-12	3.98-14	8.85-21	1.78-30	2.21-11	1.06-11
4.48-11	8.25-11	2.00-10	2.01-11	1.06-12	7.55-18	1.29-27	5.14-11	2.96-11
5.21-10	2.45-10	2.47-11	6.28-12	4.02-12	5.88-15	4.28-24	5.54-11	2.10-11
4.07-10	8.02-10	1.58-10	1.46-11	3.26-12	3.96-14	3.19-21	1.01-10	3.84-11
1.27-10	2.87-10	1.60-10	7.03-11	4.96-12	1.79-16	1.39-24	2.07-11	5.86-12
3.12-10	1.67-10	3.51-10	3.66-11	5.96-13	2.79-16	8.17-21	7.74-11	4.95-11
3.24-10	1.40-10	1.51-10	1.55-10	1.52-11	2.88-15	7.37-23	5.87-11	1.69-11
2.82-10	2.01-10	1.40-10	5.28-11	3.47-12	2.11-16	2.35-24	7.75-11	3.07-11
2.91-10	3.32-10	2.67-10	1.76-10	6.03-12	5.13-16	6.27-24	5.55-11	1.19-11
2.55-10	2.90-10	6.14-10	6.67-10	1.76-12	2.78-18	4.35-26	6.46-11	1.90-11
6.27-10	5.95-10	3.69-10	1.64-10	1.03-11	1.57-14	2.48-21		
1.36-10	2.63-10	8.99-11	4.96-11	4.89-12	1.31-14	1.76-21	1.28-10	2.04-11

PHI 135 TO 180 DEGREES

3.14-11	8.36-11	3.93-11	1.11-11	2.07-14	9.30-22	2.14-30	4.13-12	1.94-12
2.47-09	2.24-10	1.95-10	1.45-10	2.95-11	1.08-17	1.21-27	2.37-10	1.53-10
3.72-10	1.12-10	2.26-10	3.33-10	1.72-12	4.70-17	3.28-25	3.42-11	1.43-11
3.22-10	6.31-11	8.97-11	3.22-10	9.84-12	1.26-15	4.50-20	5.14-11	2.68-11
3.58-10	1.01-10	1.07-10	6.59-11	1.24-11	6.34-17	2.45-21	3.80-11	1.93-11
7.32-11	5.33-10	1.19-10	1.72-11	1.61-12	7.94-18	7.44-23	3.52-11	1.83-11
2.96-10	1.48-10	2.87-10	3.29-10	4.22-11	1.28-15	1.09-22	7.81-11	4.03-11
3.70-10	3.44-10	3.75-10	1.35-10	2.07-12	8.81-16	3.11-22	4.96-11	1.24-11
2.35-10	2.42-09	1.89-10	7.49-11	1.57-11	2.94-15	4.45-27	1.14-10	4.96-11
4.24-09	1.90-10	3.13-10	1.41-10	4.02-12	1.13-19	2.43-24	1.91-10	1.28-10
1.20-09	7.75-10	4.10-10	3.95-10	2.85-11	1.60-15	1.53-20		
4.76-10	3.64-10	9.50-11	1.56-10	1.63-11	7.09-16	1.51-20	1.50-10	4.12-11
							5.54-08	7.47-09

AIR SCATTERING 5.24 02 ENERGY 2.00 ANGLE 6.00 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	2.86-07	8.85-08	0.	0.	0.
4.00 01	0.	0.	0.	0.	1.22-07	0.	0.	0.
6.00 01	0.	0.	0.	0.	7.67-09	8.56-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	6.49-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	5.64-08	0.	0.
1.00 02	0.	0.	0.	0.	0.	2.99-09	7.86-08	0.
1.20 02	0.	0.	0.	0.	0.	0.	6.25-08	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	1.72-08	2.86-08	5.43-08	3.41-08	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	1.82-07	5.63-08	0.	0.	9.17-11
4.00 01	0.	0.	0.	0.	7.78-08	0.	0.	4.06-09
6.00 01	0.	0.	0.	0.	4.88-09	5.45-08	9.17-10	7.58-10
8.00 01	0.	0.	0.	0.	0.	4.13-08	2.60-09	9.52-10
9.00 01	0.	0.	0.	0.	0.	3.59-08	8.78-10	6.69-10
1.00 02	0.	0.	0.	0.	0.	1.90-09	6.10-08	5.37-10
1.20 02	0.	0.	0.	0.	0.	1.40-11	4.81-08	3.59-10
1.40 02	0.	0.	0.	0.	0.	5.15-12	4.16-09	5.73-10
1.60 02	0.	0.	0.	0.	0.	7.71-14	2.47-09	3.10-10
1.80 02	0.	0.	0.	0.	0.	0.	5.22-11	1.39-10
	0.	0.	0.	1.10-08	1.82-08	3.45-08	2.91-08	1.76-09
	0.	0.	0.	3.87-09	5.26-09	5.95-09	2.95-09	4.72-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	3.97-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	5.11-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.05-09
8.00 01	0.	0.	0.	0.	0.	0.	6.42-14	1.32-09
9.00 01	0.	0.	0.	0.	0.	0.	1.51-10	5.38-10
1.00 02	0.	0.	0.	0.	0.	0.	2.91-10	3.00-10
1.20 02	0.	0.	0.	0.	0.	0.	6.12-10	1.90-09
1.40 02	0.	0.	0.	0.	0.	2.63-12	1.56-09	8.51-10
1.60 02	0.	0.	0.	0.	0.	0.	1.02-10	8.91-10
1.80 02	0.	0.	0.	0.	0.	3.89-14	5.57-11	6.91-11
	0.	0.	0.	0.	0.	7.02-13	7.12-10	1.97-09
	0.	0.	0.	0.	0.	6.71-13	3.26-10	4.19-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	5.43-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	6.06-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	7.45-10
8.00 01	0.	0.	0.	0.	0.	0.	2.16-12	5.09-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.30-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.97-10
1.20 02	0.	0.	0.	0.	0.	4.79-12	6.37-13	3.96-10
1.40 02	0.	0.	0.	0.	0.	9.73-12	8.25-11	5.25-10
1.60 02	0.	0.	0.	0.	0.	3.42-11	1.38-10	4.20-10
1.80 02	0.	0.	0.	0.	0.	0.	5.91-12	1.46-10
	0.	0.	0.	0.	0.	1.01-11	4.71-11	9.79-10
	0.	0.	0.	0.	0.	6.65-12	2.81-11	1.70-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.00-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	5.12-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	8.72-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.90-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.38-10
1.00 02	0.	0.	0.	0.	0.	0.	3.75-11	3.65-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.08-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.65-09
1.60 02	0.	0.	0.	0.	0.	0.	7.43-13	1.41-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.79-10
	0.	0.	0.	0.	0.	0.	6.63-12	1.43-09
	0.	0.	0.	0.	0.	0.	6.40-12	7.21-10

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AIR SCATTERING 5.24 02 ENERGY 2.00 ANGLE 6.00 01 DIST. 3.05 02

3.90 01	1.75 03	0.	0.	5.36 04	5.00 01	1.80 03		

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
0.	0.	0.	0.	0.	0.	0.	7.04-08	
0.	0.	0.	0.	0.	0.	0.	1.83-08	
0.	0.	0.	0.	0.	0.	0.	1.06-08	
0.	0.	0.	0.	0.	0.	0.	7.14-09	
0.	0.	0.	0.	0.	0.	0.	6.20-09	
0.	0.	0.	0.	0.	0.	0.	5.83-09	
0.	0.	0.	0.	0.	0.	0.	4.38-09	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
								1.61-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02			
1.49-10	6.44-10	1.25-10	3.73-11	2.58-11	2.94-20	9.66-27	4.49-08	1.41-08	
5.86-10	1.98-10	1.81-10	2.82-11	7.26-11	2.67-17	4.38-24	1.19-08	3.89-09	
3.16-10	1.23-10	7.46-10	5.35-11	7.84-11	3.98-16	2.05-23	6.86-09	2.04-09	
2.08-10	6.76-10	3.04-10	8.70-10	1.09-10	4.61-16	6.79-25	4.81-09	1.16-09	
8.97-10	4.32-10	1.95-10	2.60-10	2.64-11	5.36-17	1.01-23	4.09-09	1.06-09	
1.18-09	3.91-10	2.53-10	4.97-10	1.27-11	1.12-15	2.04-24	4.57-09	9.97-10	
9.12-10	4.23-10	3.46-10	1.01-10	3.96-12	3.87-15	2.78-23	3.44-09	3.27-10	
9.15-10	4.08-10	3.53-10	1.31-10	4.85-12	6.76-16	2.59-21	3.71-10	1.03-10	
2.23-10	1.80-10	4.64-10	5.74-10	2.43-12	8.68-15	2.89-24	2.16-10	1.35-10	
2.71-10	4.25-10	1.29-10	1.69-10	1.27-13	8.77-17	5.15-25	3.48-11	1.17-11	
1.22-09	7.73-10	7.09-10	6.15-10	8.04-11	3.42-15	7.08-22			
2.37-10	1.14-10	1.93-10	2.12-10	3.21-11	1.97-15	6.93-22	1.09-08		

PHI 45 TO 90 DEGREES

1.26-10	2.16-10	1.25-10	1.00-10	2.07-13	3.38-17	1.31-24	3.31-11	1.70-11
2.71-10	4.26-10	1.14-10	4.94-09	7.32-11	7.14-17	6.64-29	9.31-11	5.03-11
8.62-10	2.03-10	8.16-11	2.66-10	3.44-11	3.14-16	1.67-25	9.30-11	3.98-11
5.37-10	4.66-10	1.44-10	8.08-11	1.26-11	6.13-15	1.91-22	1.00-10	3.14-11
1.30-11	3.51-10	9.17-11	9.56-11	6.89-12	8.91-15	1.55-21	4.93-11	1.74-11
9.43-10	2.25-10	7.73-11	3.23-11	5.42-12	3.08-15	2.18-25	7.67-11	3.20-11
4.23-10	2.43-10	3.94-10	3.38-11	7.64-11	2.88-16	1.32-20	1.68-10	4.81-11
1.93-10	2.03-10	6.41-10	1.16-10	3.87-12	1.45-16	2.31-23	1.78-10	8.54-11
3.60-10	2.18-10	4.39-10	5.84-11	8.15-12	6.63-15	3.30-23	7.94-11	3.36-11
2.04-11	3.06-10	1.98-10	9.72-12	1.96-11	3.85-16	5.53-26	1.97-11	6.12-12
8.78-10	5.48-10	5.13-10	1.03-09	5.67-11	5.49-15	4.64-21		
2.68-10	1.00-10	1.76-10	8.47-10	3.07-11	2.50-15	3.27-21	2.14-10	3.47-11

PHI 90 TO 135 DEGREES

5.53-10	1.22-10	8.14-12	1.61-10	6.77-10	8.22-15	8.47-25	5.86-11	3.20-11
3.41-10	4.15-10	1.72-10	9.31-11	1.89-12	2.45-18	2.72-25	5.69-11	1.84-11
2.76-10	1.42-10	4.84-10	1.90-10	3.04-11	9.22-16	4.97-23	6.25-11	1.69-11
2.19-10	3.12-10	2.04-10	1.05-10	1.39-11	2.11-16	1.58-23	4.62-11	1.33-11
2.67-10	5.93-11	5.47-10	7.41-11	1.23-12	1.54-14	3.52-20	4.42-11	1.58-11
3.09-10	8.97-11	1.75-10	4.68-11	5.56-13	2.45-16	8.52-22	3.21-11	1.05-11
1.05-10	1.28-09	1.54-10	5.57-10	1.18-11	6.26-17	9.48-24	6.37-11	2.88-11
6.38-10	2.20-09	1.88-09	1.74-10	1.26-10	4.61-15	2.90-22	1.49-10	8.59-11
1.89-10	1.97-11	3.04-10	5.16-11	1.50-11	6.99-16	3.08-23	4.84-11	1.58-11
8.98-12	2.63-10	6.23-11	8.03-11	5.31-13	6.59-16	1.65-22	1.64-11	6.37-12
5.75-10	1.27-09	9.58-10	3.73-10	9.40-11	4.94-15	6.37-21		
1.16-10	6.66-10	4.66-10	1.41-10	4.97-11	2.92-15	6.25-21	1.28-10	2.66-11

PHI 135 TO 180 DEGREES

3.30-10	2.11-10	4.08-10	1.85-10	6.21-13	1.21-18	1.07-28	5.29-10	4.95-10
9.61-10	1.00-10	1.10-10	1.23-11	2.32-12	1.12-17	2.37-25	6.50-11	3.92-11
2.29-10	1.40-10	4.77-10	9.12-11	7.48-12	1.26-16	4.99-23	2.65-11	8.24-12
2.68-10	9.79-09	1.55-09	4.78-10	3.04-11	2.27-16	1.76-22	2.90-10	2.33-10
2.04-10	2.41-10	8.75-11	2.09-11	3.19-11	3.81-15	1.83-25	3.73-11	2.06-11
1.14-10	4.97-11	6.61-11	5.08-11	6.94-12	3.79-18	1.10-26	2.81-11	1.78-11
5.74-11	3.39-11	5.48-11	2.17-11	1.86-12	1.45-15	6.82-22	9.97-12	3.57-12
2.26-10	9.11-11	9.43-11	4.24-11	1.03-11	4.47-14	1.67-24	9.53-11	7.31-11
4.72-10	2.01-10	2.65-09	1.07-10	7.12-12	1.13-15	1.66-23	8.31-11	5.18-11
9.60-11	7.25-10	9.01-11	9.44-10	4.80-12	6.74-17	1.55-23	4.11-11	1.95-11
5.60-10	3.43-09	1.21-09	3.00-10	2.40-11	1.33-14	2.97-22		
1.85-10	3.14-09	6.85-10	1.63-10	1.06-11	8.21-15	2.32-22	2.02-10	8.51-11
							1.80-08	2.09-09

AIR SCATTERING 5.25 02 ENERGY 2.00 ANGLE 9.00 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	0.	1.60-07	1.55-07	0.	0.
4.00 01	0.	0.	0.	0.	0.	1.09-07	0.	0.
6.00 01	0.	0.	0.	0.	0.	6.57-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	2.33-09	6.80-08	0.
9.00 01	0.	0.	0.	0.	0.	0.	3.43-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	9.65-09	4.64-08	2.82-08	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	0.	1.02-07	9.86-08	1.47-13	3.34-10
4.00 01	0.	0.	0.	0.	0.	6.91-08	1.10-10	4.88-10
6.00 01	0.	0.	0.	0.	0.	4.18-08	6.14-09	2.99-10
8.00 01	0.	0.	0.	0.	0.	1.48-09	4.92-08	2.96-09
9.00 01	0.	0.	0.	0.	0.	2.51-13	3.45-08	2.20-09
1.00 02	0.	0.	0.	0.	0.	1.59-13	3.24-09	1.27-09
1.20 02	0.	0.	0.	0.	0.	6.04-15	4.20-09	3.49-10
1.40 02	0.	0.	0.	0.	0.	0.	1.48-10	3.30-09
1.60 02	0.	0.	0.	0.	0.	0.	8.26-11	3.14-10
1.80 02	0.	0.	0.	0.	0.	0.	2.04-11	8.68-12
	0.	0.	0.	0.	6.14-09	2.96-08	2.57-08	2.80-09
	0.	0.	0.	0.	2.51-09	4.71-09	2.77-09	1.11-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.10-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	7.13-10
6.00 01	0.	0.	0.	0.	0.	0.	3.78-10	9.57-10
8.00 01	0.	0.	0.	0.	0.	0.	1.81-10	4.48-10
9.00 01	0.	0.	0.	0.	0.	0.	2.01-10	1.01-09
1.00 02	0.	0.	0.	0.	0.	0.	6.91-10	3.82-10
1.20 02	0.	0.	0.	0.	0.	4.63-11	4.70-10	1.11-09
1.40 02	0.	0.	0.	0.	0.	4.74-14	6.28-11	2.34-10
1.60 02	0.	0.	0.	0.	0.	1.03-13	1.39-11	8.76-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.34-09
	0.	0.	0.	0.	0.	1.51-11	4.87-10	1.36-09
	0.	0.	0.	0.	0.	1.50-11	1.65-10	2.70-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.21-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.60-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	5.23-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	6.61-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.83-10
1.00 02	0.	0.	0.	0.	0.	0.	5.15-15	2.75-10
1.20 02	0.	0.	0.	0.	0.	1.04-12	6.56-11	2.76-10
1.40 02	0.	0.	0.	0.	0.	0.	3.45-13	5.02-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	5.26-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	4.39-10
	0.	0.	0.	0.	0.	3.40-13	2.15-11	8.64-10
	0.	0.	0.	0.	0.	3.28-13	2.14-11	1.86-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.03-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.10-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	8.35-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.66-10
9.00 01	0.	0.	0.	0.	0.	0.	1.81-11	5.33-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.70-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.34-10
1.40 02	0.	0.	0.	0.	0.	0.	2.37-09	2.27-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.83-10
1.80 02	0.	0.	0.	0.	0.	0.	3.52-11	1.79-11
	0.	0.	0.	0.	0.	0.	6.35-10	5.16-10
	0.	0.	0.	0.	0.	0.	6.29-10	1.43-10

307434006561 046602036151

AIR SCATTERING 5.25 02 ENERGY 2.00 ANGLE 9.00 01 DIST. 3.05 02

4.00 01	1.74 03	0.	0.	5.36 04	5.00 01	1.80 03		

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
0.	0.	0.	0.	0.	0.	0.	4.10-08	
0.	0.	0.	0.	0.	0.	0.	1.19-08	
0.	0.	0.	0.	0.	0.	0.	7.23-09	
0.	0.	0.	0.	0.	0.	0.	5.02-09	
0.	0.	0.	0.	0.	0.	0.	2.40-09	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							8.53-09	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
6.97-11	1.17-10	6.43-11	5.49-12	2.70-11	1.16-14	3.76-25	2.61-08	7.88-09
8.28-11	2.94-10	3.88-10	2.08-11	9.00-12	1.38-15	1.39-26	7.66-09	2.05-09
1.25-09	3.99-10	1.69-10	2.25-10	1.53-11	3.99-16	5.91-24	5.11-09	9.98-10
1.01-09	8.09-10	4.77-10	4.27-11	1.05-11	3.85-14	3.77-22	3.82-09	4.80-10
5.74-10	4.55-10	3.34-10	1.60-10	4.86-12	2.12-14	7.39-22	2.57-09	6.10-10
8.00-10	1.16-09	1.94-10	3.69-11	6.49-12	1.28-16	2.63-21	3.51-10	1.12-10
2.76-10	6.82-10	2.45-10	1.46-10	1.98-11	2.40-16	4.29-25	3.45-10	1.95-10
3.85-10	1.91-10	7.70-10	2.50-10	1.85-11	6.71-16	5.87-22	2.12-10	1.44-10
5.24-10	3.16-10	1.35-10	8.94-11	4.38-12	2.85-13	2.90-24	5.16-11	1.44-11
4.37-10	2.55-11	2.69-10	9.19-11	8.95-12	2.02-14	1.81-21	2.46-11	1.06-11
1.23-09	1.04-09	6.88-10	2.44-10	2.53-11	6.82-14	9.76-22		
2.08-10	2.42-10	1.73-10	6.04-11	6.98-12	5.19-14	5.05-22	6.20-09	0.

PHI 45 TO 90 DEGREES

6.97-11	3.99-10	1.96-11	3.82-11	6.04-11	2.83-15	9.01-27	2.39-11	7.61-12
7.22-10	5.32-11	2.99-10	8.76-11	5.02-12	8.05-16	1.54-22	6.98-11	2.55-11
2.81-10	4.05-10	5.66-10	6.11-11	4.60-12	1.05-15	3.92-24	1.06-10	3.77-11
2.83-10	9.26-10	8.17-11	1.04-10	1.19-11	4.85-16	5.16-23	7.02-11	1.83-11
3.21-10	2.15-10	4.01-10	8.61-11	1.78-11	1.07-15	6.68-26	9.05-11	2.33-11
2.13-10	1.03-09	4.55-10	6.08-11	8.34-12	6.35-17	5.22-22	1.10-10	5.27-11
1.80-10	1.54-10	2.08-10	4.68-11	5.59-12	8.76-14	1.83-22	1.08-10	3.48-11
1.42-09	2.94-10	3.72-10	2.04-10	5.30-12	3.19-15	1.64-19	8.37-11	3.53-11
8.08-10	2.12-10	3.22-10	1.26-10	2.06-11	5.48-16	1.95-24	4.74-11	2.34-11
2.54-10	2.72-11	1.50-10	1.93-12	5.60-12	8.04-16	6.72-18	1.30-10	1.15-10
9.81-10	8.26-10	6.11-10	1.86-10	2.13-11	3.05-14	4.49-19		
2.88-10	2.33-10	1.55-10	4.14-11	6.46-12	2.78-14	4.49-19	1.73-10	2.48-11

PHI 90 TO 135 DEGREES

8.74-10	7.80-10	2.08-10	1.70-11	1.17-10	3.66-15	4.15-28	1.16-10	6.27-11
1.06-10	1.24-09	4.35-10	2.51-10	5.77-12	1.30-13	6.62-19	5.79-11	2.16-11
4.29-10	6.70-10	3.51-10	1.55-10	9.12-12	4.06-18	7.47-27	6.64-11	2.17-11
2.91-10	9.96-10	9.21-10	9.83-11	1.59-11	7.79-18	6.53-22	8.70-11	3.48-11
1.13-11	5.33-11	4.74-10	2.88-10	1.93-10	7.78-15	2.93-25	4.01-11	1.76-11
8.60-10	1.31-10	5.23-10	4.45-10	5.64-11	3.40-16	5.15-23	6.33-11	2.43-11
4.32-10	2.83-10	2.87-10	1.26-09	1.23-10	2.43-15	4.23-22	6.04-11	1.81-11
4.65-10	2.29-09	1.30-10	6.47-10	2.44-11	4.51-14	2.55-22	1.06-10	6.64-11
1.94-10	2.56-10	4.93-10	3.84-10	5.02-13	4.05-16	2.31-19	2.95-11	1.07-11
4.89-12	1.01-09	2.20-10	1.93-11	3.31-13	5.24-16	2.15-24	5.10-11	3.01-11
7.30-10	1.60-09	8.82-10	8.95-10	1.06-10	3.71-14	1.55-19		
1.87-10	6.43-10	3.31-10	5.11-10	6.25-11	2.54-14	1.22-19	1.37-10	2.65-11

PHI 135 TO 180 DEGREES

5.00-11	1.60-11	5.62-11	1.17-11	2.16-12	6.23-14	5.63-27	1.36-11	7.61-12
6.14-11	1.23-09	5.30-10	5.55-11	3.61-11	4.33-16	4.65-22	4.87-11	2.62-11
2.22-10	3.98-10	7.83-10	1.67-11	3.07-11	3.51-17	1.15-25	7.55-11	3.03-11
1.38-10	8.18-11	1.61-09	3.43-11	6.37-13	1.32-14	7.12-25	4.78-11	2.49-11
1.36-10	2.37-10	7.91-11	7.60-12	1.94-13	2.74-17	1.60-27	1.62-11	5.49-12
6.21-10	3.37-10	1.14-10	3.26-10	6.10-12	3.93-15	1.86-22	4.46-11	1.69-11
2.46-10	8.67-11	1.52-10	7.52-10	6.60-12	1.17-14	2.11-19	3.32-11	1.01-11
1.48-10	5.32-11	1.40-09	2.51-10	7.09-11	2.03-14	3.22-21	2.15-10	1.68-10
3.06-11	8.55-10	8.47-10	2.72-11	5.77-12	3.84-17	2.66-24	4.81-11	2.46-11
1.36-08	3.76-11	9.84-12	2.26-09	8.47-13	4.93-18	4.30-24	5.17-10	4.87-10
1.19-09	6.39-10	1.43-09	5.37-10	3.79-11	1.81-14	6.98-20		
8.21-10	2.57-10	6.03-10	3.19-10	1.70-11	8.78-15	6.97-20	1.63-10	5.58-11
							1.05-08	1.12-09

AIR SCATTERING 5.26 02 ENERGY 2.00 ANGLE 1.35 02 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	0.	0.	3.21-07	1.20-07	0.
4.00 01	0.	0.	0.	0.	0.	0.	1.92-07	0.
6.00 01	0.	0.	0.	0.	0.	0.	1.23-08	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	1.94-08	4.39-08	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	0.	0.	2.05-07	7.88-08	1.79-10
4.00 01	0.	0.	0.	0.	0.	1.40-13	1.40-07	1.48-09
6.00 01	0.	0.	0.	0.	0.	2.22-11	1.69-08	1.35-09
8.00 01	0.	0.	0.	0.	0.	1.10-13	1.14-09	2.89-10
9.00 01	0.	0.	0.	0.	0.	0.	5.73-10	1.63-10
1.00 02	0.	0.	0.	0.	0.	0.	1.45-10	3.85-10
1.20 02	0.	0.	0.	0.	0.	0.	1.19-09	6.58-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	8.78-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	5.34-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.57-11
	0.	0.	0.	0.	0.	1.23-08	3.45-08	1.36-09
	0.	0.	0.	0.	0.	3.06-09	3.53-09	2.77-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	4.00-08	3.80-10
4.00 01	0.	0.	0.	0.	0.	0.	1.99-09	1.36-09
6.00 01	0.	0.	0.	0.	0.	0.	1.35-09	2.17-09
8.00 01	0.	0.	0.	0.	0.	4.80-13	1.92-10	3.97-10
9.00 01	0.	0.	0.	0.	0.	0.	1.96-10	1.38-09
1.00 02	0.	0.	0.	0.	0.	0.	1.12-11	4.27-10
1.20 02	0.	0.	0.	0.	0.	4.54-13	9.51-13	3.91-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.50-10
1.60 02	0.	0.	0.	0.	0.	0.	1.48-12	4.89-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.80-11
	0.	0.	0.	0.	0.	3.05-13	3.21-09	1.51-09
	0.	0.	0.	0.	0.	2.15-13	2.35-09	4.17-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.55-09	1.07-09
4.00 01	0.	0.	0.	0.	0.	0.	8.24-10	1.26-09
6.00 01	0.	0.	0.	0.	0.	0.	2.94-13	3.22-10
8.00 01	0.	0.	0.	0.	0.	0.	1.66-15	6.82-10
9.00 01	0.	0.	0.	0.	0.	6.48-12	0.	9.17-10
1.00 02	0.	0.	0.	0.	0.	4.04-11	3.16-13	4.01-10
1.20 02	0.	0.	0.	0.	0.	7.65-12	1.31-11	3.57-10
1.40 02	0.	0.	0.	0.	0.	0.	9.04-12	2.38-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.07-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.92-09
	0.	0.	0.	0.	0.	1.06-11	3.04-10	1.07-09
	0.	0.	0.	0.	0.	7.53-12	1.56-10	3.44-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	9.48-11	1.78-09
4.00 01	0.	0.	0.	0.	0.	0.	4.27-12	2.74-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	7.29-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.61-10
9.00 01	0.	0.	0.	0.	0.	0.	3.30-12	5.09-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.51-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.19-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.94-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	3.29-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.75-11
	0.	0.	0.	0.	0.	0.	7.03-12	2.91-09
	0.	0.	0.	0.	0.	0.	5.02-12	1.94-09

220475272255 041334503021

AIR SCATTERING 5.26 02 ENERGY 2.00 ANGLE 1.35 02 DIST. 3.05 02
4.00 01 1.75 03 0. 0. 5.32 04 5.00 01 1.80 03

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	4.37-08
0.	0.	0.	0.	0.	0.	0.	1.35-08
0.	0.	0.	0.	0.	0.	0.	8.61-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							5.20-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
1.44-09	3.78-09	4.63-10	8.53-11	1.67-12	3.72-17	3.39-24	2.82-08	5.92-09
7.10-10	1.59-09	3.43-10	3.91-11	7.52-12	8.67-16	9.98-25	9.98-09	1.10-09
1.02-09	6.01-10	3.11-10	1.43-10	1.56-11	6.51-13	1.79-22	1.31-09	3.81-10
3.99-10	9.22-10	1.69-10	5.16-11	1.65-11	3.21-14	3.55-23	1.35-10	3.52-11
2.63-09	4.84-10	2.22-10	8.54-11	1.41-11	5.83-16	1.78-24	1.60-10	8.64-11
6.59-10	8.13-10	5.11-11	7.34-11	2.73-11	4.32-17	2.73-24	7.61-11	1.98-11
2.68-10	1.71-10	1.80-10	5.86-11	2.52-11	3.22-16	2.10-24	1.34-10	8.69-11
5.34-10	1.36-10	6.75-11	1.71-10	2.56-12	3.57-16	6.42-23	6.95-11	2.52-11
8.71-11	3.99-10	7.53-11	1.17-10	1.78-12	4.86-16	1.77-22	4.21-11	1.74-11
1.96-10	3.83-11	9.54-12	9.15-11	1.01-12	8.23-18	1.15-28	1.04-11	7.12-12
1.44-09	1.35-09	3.63-10	1.85-10	2.74-11	1.84-13	1.09-22		
4.40-10	4.70-10	5.71-11	4.20-11	8.60-12	1.83-13	4.98-23	3.94-09	4.40-10

PHI 45 TO 90 DEGREES

9.57-10	2.38-09	4.79-11	3.84-11	4.70-13	1.23-16	2.67-19	2.91-09	2.71-09
8.69-10	5.27-10	1.86-10	1.16-10	5.65-11	2.10-16	9.34-20	2.57-10	9.71-11
2.03-09	6.77-10	2.20-10	3.06-11	1.12-11	6.96-15	3.22-19	2.97-10	9.29-11
8.81-10	2.18-10	9.77-11	6.25-11	9.70-12	5.32-15	6.05-22	7.29-11	3.00-11
1.64-10	7.49-10	1.24-10	9.65-11	4.00-12	3.31-16	4.63-23	1.10-10	4.97-11
3.31-10	1.06-10	7.33-11	1.01-10	5.31-12	4.97-16	4.50-23	3.91-11	1.31-11
1.37-10	1.71-10	1.17-10	9.86-11	5.51-12	9.10-15	7.16-24	3.21-11	9.63-12
3.57-10	1.45-10	1.17-10	3.46-11	5.46-12	2.69-16	1.50-22	3.66-11	1.23-11
2.38-10	8.84-11	3.20-10	2.74-11	4.33-12	4.51-14	2.79-28	2.00-11	7.24-12
8.80-12	5.69-12	1.01-10	2.27-11	2.57-12	6.05-16	2.10-27	3.63-12	1.64-12
1.30-09	7.45-10	2.91-10	1.33-10	2.18-11	1.47-14	1.18-19		
4.58-10	2.13-10	6.10-11	3.07-11	9.53-12	8.30-15	9.14-20	3.73-10	1.67-10

PHI 90 TO 135 DEGREES

3.05-10	4.79-10	7.65-11	6.47-11	4.34-13	4.50-17	2.46-27	2.56-10	1.34-10
2.52-10	4.84-10	3.83-10	5.12-11	2.91-12	1.87-16	9.06-27	1.50-10	5.05-11
8.80-10	3.68-09	3.92-10	6.13-11	2.65-12	4.66-16	8.65-24	1.45-10	1.08-10
3.26-10	1.95-10	1.60-10	3.68-11	3.54-12	9.70-17	2.86-24	5.41-11	2.22-11
8.65-11	8.38-11	5.51-10	2.63-10	3.69-12	9.92-16	1.18-22	6.54-11	4.23-11
2.57-10	1.59-10	2.28-10	1.81-10	3.38-11	6.39-18	1.20-27	4.43-11	2.08-11
3.49-10	1.08-10	3.20-10	2.09-10	1.34-11	3.33-17	1.35-28	4.34-11	1.12-11
2.45-10	9.91-10	8.27-11	5.54-11	1.26-12	6.67-16	4.29-26	3.67-11	1.78-11
2.65-10	2.33-10	6.80-10	2.32-12	1.31-11	3.49-16	1.36-22	3.09-11	1.47-11
3.74-11	5.87-10	1.01-11	9.08-11	1.02-12	4.04-17	1.94-21	1.13-10	9.16-11
6.90-10	1.57-09	6.08-10	2.07-10	1.59-11	6.16-16	1.64-22		
1.91-10	9.68-10	1.70-10	5.38-11	6.56-12	2.55-16	1.21-22	1.53-10	3.63-11

PHI 135 TO 180 DEGREES

1.27-09	3.29-10	1.32-10	1.61-11	2.94-12	4.83-18	4.73-25	1.52-10	9.68-11
9.55-11	2.07-09	7.82-11	1.40-11	1.43-12	1.88-16	7.36-23	1.92-10	8.53-11
2.30-09	2.23-10	1.04-10	4.87-11	7.44-12	4.15-16	6.26-27	4.55-10	3.69-10
2.75-10	1.39-10	2.62-10	2.14-10	1.38-12	2.92-16	1.13-24	3.37-11	8.46-12
7.68-10	1.36-10	2.57-10	1.34-10	1.81-11	2.65-16	6.17-23	6.33-11	2.33-11
2.45-10	2.81-10	8.85-11	2.13-10	9.02-12	2.66-18	3.83-25	2.71-11	9.36-12
1.78-10	1.31-09	1.21-09	2.32-11	9.11-13	1.15-15	1.58-24	7.82-11	4.59-11
5.05-09	1.99-10	4.23-10	3.15-11	5.90-13	5.70-16	1.03-21	2.10-10	1.76-10
2.23-11	2.88-10	2.27-10	3.35-11	1.82-12	5.90-14	9.19-31	1.43-11	8.14-12
5.68-10	7.77-10	3.37-10	3.08-12	8.11-13	7.38-18	6.53-24	4.67-11	2.36-11
2.41-09	1.13-09	7.62-10	1.68-10	8.39-12	1.11-14	2.98-22		
1.44-09	6.83-10	3.26-10	7.89-11	4.23-12	1.02-14	2.45-22	2.77-10	1.12-10
							7.44-09	8.50-10

AIR SCATTERING 5.27 02 ENERGY 2.00 ANGLE 1.80 02 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	0.	0.	0.	1.06-06	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	6.41-08	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	0.	0.	2.18-14	6.83-07	1.10-09
4.00 01	0.	0.	0.	0.	0.	0.	1.38-09	4.84-10
6.00 01	0.	0.	0.	0.	0.	0.	2.63-10	6.33-10
8.00 01	0.	0.	0.	0.	0.	0.	7.72-12	5.54-10
9.00 01	0.	0.	0.	0.	0.	0.	1.50-12	2.00-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	5.45-10
1.20 02	0.	0.	0.	0.	0.	0.	1.47-14	3.49-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	6.27-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.52-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.88-11
	0.	0.	0.	0.	0.	1.32-15	4.15-08	1.94-09
	0.	0.	0.	0.	0.	9.76-16	4.75-09	8.94-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	6.21-11	2.01-08	3.77-10
4.00 01	0.	0.	0.	0.	0.	0.	5.55-09	4.33-10
6.00 01	0.	0.	0.	0.	0.	0.	4.55-10	8.05-10
8.00 01	0.	0.	0.	0.	0.	0.	2.68-12	5.61-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.91-10
1.00 02	0.	0.	0.	0.	0.	0.	3.18-12	6.76-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.06-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.29-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.80-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	3.60-11
	0.	0.	0.	0.	0.	3.74-12	2.30-09	3.16-09
	0.	0.	0.	0.	0.	3.35-12	7.97-10	1.57-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	4.57-12	7.28-09	2.94-10
4.00 01	0.	0.	0.	0.	0.	2.14-11	9.27-10	6.07-10
6.00 01	0.	0.	0.	0.	0.	0.	2.33-09	8.13-10
8.00 01	0.	0.	0.	0.	0.	6.78-13	7.93-12	1.10-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.26-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.94-10
1.20 02	0.	0.	0.	0.	0.	1.00-13	1.49-12	9.51-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.70-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	8.22-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	4.25-12	1.22-09	1.25-09
	0.	0.	0.	0.	0.	3.72-12	5.27-10	4.60-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.96-10	4.02-09	3.85-10
4.00 01	0.	0.	0.	0.	0.	0.	6.50-09	3.38-10
6.00 01	0.	0.	0.	0.	0.	5.58-14	1.80-10	7.38-10
8.00 01	0.	0.	0.	0.	0.	1.97-12	2.27-11	3.51-10
9.00 01	0.	0.	0.	0.	0.	0.	6.83-11	4.62-10
1.00 02	0.	0.	0.	0.	0.	0.	2.53-13	4.98-10
1.20 02	0.	0.	0.	0.	0.	0.	1.58-13	3.17-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.07-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.28-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.55-10
	0.	0.	0.	0.	0.	1.25-11	1.44-09	1.68-09
	0.	0.	0.	0.	0.	1.18-11	6.22-10	8.76-10

041334503021 220361407051

AIR SCATTERING 5.27 02 ENERGY 2.00 ANGLE 1.80 02 DIST. 3.05 02
3.90 01 1.75 03 0. 0. 5.32 04 5.00 01 1.80 03

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
0.	0.	0.	0.	0.	0.	0.	7.44-08	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							4.49-09	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
1.85-09	1.80-09	2.02-10	9.27-11	5.05-11	1.09-14	1.22-26	4.79-08	5.52-09
1.04-09	3.14-10	4.50-10	6.04-11	1.78-11	4.16-16	1.64-24	1.75-10	3.73-11
2.72-10	2.71-10	2.31-10	2.98-10	4.78-12	1.23-17	8.05-25	7.40-11	2.20-11
2.51-10	3.29-10	4.23-10	3.44-10	5.78-12	7.71-15	9.98-24	5.71-11	1.20-11
8.34-11	3.59-10	1.19-09	4.41-11	3.06-12	3.58-16	3.60-23	4.59-11	1.99-11
5.44-11	5.83-11	1.99-10	5.53-10	4.92-12	3.77-17	9.37-20	4.02-11	1.57-11
2.35-10	5.19-11	6.15-11	7.35-11	5.28-13	2.35-16	6.94-27	1.86-10	1.35-10
2.16-10	2.45-10	2.68-11	5.77-12	8.09-13	1.22-17	2.50-29	4.56-11	1.60-11
1.19-10	7.70-11	2.09-10	1.19-10	8.79-13	4.50-15	4.69-28	1.38-11	5.06-12
3.74-11	1.36-11	5.33-11	3.77-12	1.06-12	5.90-17	6.16-25	3.72-12	1.45-12
6.27-10	5.11-10	5.97-10	3.58-10	1.13-11	4.18-15	1.63-20		
1.30-10	1.14-10	1.87-10	1.27-10	3.01-12	2.45-15	1.63-20	3.05-09	3.40-10

PHI 45 TO 90 DEGREES

1.20-09	5.06-10	5.00-10	3.26-11	2.30-11	1.77-14	1.62-21	1.50-09	7.96-10
9.75-10	1.90-10	9.78-11	1.04-10	2.22-12	9.40-16	6.15-24	4.53-10	1.64-10
4.47-10	2.35-10	5.78-10	6.33-10	1.97-12	1.35-15	8.07-25	1.12-10	2.59-11
2.76-10	3.53-10	1.67-10	8.04-11	1.05-12	9.74-14	3.49-20	3.03-10	2.31-10
1.24-10	9.33-10	2.01-10	2.55-10	4.79-12	3.46-15	3.14-23	6.30-11	2.37-11
7.17-11	1.55-10	1.99-10	4.43-11	7.14-12	6.41-16	8.51-23	4.49-11	1.97-11
2.57-11	6.64-10	1.16-10	1.77-10	6.24-12	8.23-14	6.08-23	1.24-10	6.57-11
2.03-09	3.43-10	9.53-11	3.17-11	2.00-13	9.49-17	5.86-18	9.00-11	5.80-11
1.23-09	1.40-11	1.46-10	5.58-11	4.78-13	5.94-17	1.55-18	7.21-11	4.52-11
7.65-11	1.79-11	2.25-10	8.65-11	4.55-11	2.66-18	1.30-25	1.08-11	5.22-12
1.25-09	7.41-10	4.27-10	3.68-10	9.62-12	6.10-14	1.84-18		
4.57-10	2.14-10	1.06-10	1.52-10	3.31-12	3.90-14	1.82-18	3.94-10	1.01-10

PHI 90 TO 135 DEGREES

1.70-09	1.09-09	1.26-09	1.68-11	2.52-11	2.68-16	2.45-22	6.38-10	1.71-10
8.63-10	2.10-10	2.12-10	2.26-10	1.84-11	4.67-16	1.37-19	1.40-10	3.20-11
2.44-10	7.58-11	1.58-09	1.09-10	3.20-12	8.22-14	9.92-21	2.47-10	1.40-10
7.55-10	3.88-10	6.48-10	4.23-10	6.46-12	1.81-13	6.16-23	1.10-10	3.72-11
3.52-10	1.39-10	2.93-10	5.56-11	4.22-11	3.04-14	2.40-21	2.91-11	8.16-12
4.06-10	2.33-10	9.82-11	1.58-10	1.26-11	1.34-13	6.40-22	3.36-11	1.17-11
9.30-10	1.52-10	3.77-11	1.79-11	1.77-11	1.63-15	2.56-23	4.31-11	2.00-11
4.16-10	1.38-10	4.79-10	1.71-10	6.90-12	1.68-12	3.18-21	1.15-10	6.91-11
2.05-10	7.28-11	1.12-10	7.22-11	4.27-11	1.21-15	2.48-26	1.66-11	5.23-12
3.77-11	1.12-11	2.12-11	4.51-11	4.88-12	1.58-18	2.59-31	2.55-12	1.10-12
1.15-09	4.13-10	9.72-10	3.11-10	3.25-11	5.57-13	2.78-20		
2.80-10	8.27-11	3.90-10	1.11-10	9.56-12	4.48-13	2.38-20	2.23-10	4.59-11

PHI 135 TO 180 DEGREES

5.63-10	3.07-09	1.17-09	2.62-11	6.28-12	3.33-16	5.98-26	4.40-10	1.12-10
4.54-10	5.28-10	2.60-10	2.94-10	4.59-11	1.37-16	3.72-26	5.10-10	2.50-10
6.06-10	3.94-10	1.02-09	3.93-11	8.14-12	1.49-14	4.86-23	1.02-10	3.11-11
3.79-09	6.26-10	5.18-10	5.83-10	1.18-10	2.18-16	5.62-21	1.88-10	1.01-10
2.30-10	8.24-11	1.14-10	1.79-10	6.57-12	9.76-16	1.16-23	4.23-11	2.01-11
5.78-10	6.60-10	8.35-11	1.04-10	2.71-11	4.43-16	1.19-20	6.46-11	2.74-11
1.83-10	3.94-10	5.90-11	4.96-11	1.55-11	2.41-14	1.54-19	1.77-10	1.32-10
6.49-11	3.39-10	6.90-11	1.79-11	5.37-11	2.59-15	6.69-25	2.29-11	9.44-12
5.51-11	2.04-09	6.57-11	2.23-11	5.48-12	1.69-16	7.17-27	5.90-11	4.86-11
1.97-09	1.89-10	3.15-12	2.97-12	7.61-12	1.99-16	0.	8.35-11	5.70-11
1.86-09	1.30-09	6.41-10	3.28-10	7.54-11	1.29-14	5.41-20		
9.13-10	5.11-10	2.08-10	1.61-10	3.90-11	7.12-15	5.23-20	3.01-10	7.19-11
							6.23-09	6.27-10

AIR SCATTERING 5.28 02 ENERGY 1.00 ANGLE 1.00 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	1.26-04	0.	0.	0.	0.	0.	0.	0.
4.00 01	2.56-05	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	5.92-05	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	2.00-05	1.17-05	0.	0.
1.80 02	0.	0.	0.	0.	0.	5.53-05	0.	0.
	1.21-05	0.	0.	1.03-05	3.48-06	5.38-06	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	8.03-05	0.	0.	0.	0.	0.	2.63-15	5.88-10
4.00 01	1.63-05	0.	0.	0.	0.	0.	1.25-09	1.46-08
6.00 01	0.	0.	0.	0.	0.	0.	9.97-10	2.02-09
8.00 01	0.	0.	0.	0.	0.	0.	1.03-09	4.41-10
9.00 01	0.	0.	0.	3.77-05	0.	0.	6.00-08	2.23-10
1.00 02	0.	0.	0.	0.	0.	1.46-13	2.36-09	8.58-10
1.20 02	0.	0.	0.	0.	0.	1.87-10	2.50-09	8.35-10
1.40 02	0.	0.	0.	0.	0.	2.66-09	2.13-09	8.07-10
1.60 02	0.	0.	0.	0.	1.28-05	7.49-06	6.52-10	3.90-09
1.80 02	0.	0.	0.	0.	2.78-11	3.52-05	8.72-09	4.51-10
	7.68-06	0.	0.	6.55-06	2.22-06	3.43-06	1.37-08	4.63-09
	3.43-06	0.	0.	6.55-06	2.21-06	1.51-06	7.50-09	2.15-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	3.16-11	2.48-10
4.00 01	0.	0.	0.	0.	0.	0.	1.36-10	6.30-10
6.00 01	0.	0.	0.	0.	0.	0.	5.56-09	5.40-10
8.00 01	0.	0.	0.	0.	0.	6.26-13	1.37-09	1.55-09
9.00 01	0.	0.	0.	0.	0.	0.	5.23-09	6.08-10
1.00 02	0.	0.	0.	0.	0.	1.15-13	2.00-09	6.85-10
1.20 02	0.	0.	0.	0.	0.	3.72-11	1.76-09	1.04-08
1.40 02	0.	0.	0.	0.	4.44-12	8.11-10	1.83-09	5.09-10
1.60 02	0.	0.	0.	3.68-11	8.28-11	4.81-09	4.27-10	9.20-10
1.80 02	0.	0.	0.	1.07-14	1.06-10	3.20-08	5.37-09	7.36-10
	0.	0.	0.	6.39-12	2.20-11	2.99-09	4.67-09	4.72-09
	0.	0.	0.	6.39-12	1.20-11	7.63-10	1.43-09	1.98-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	3.52-08
4.00 01	0.	0.	0.	0.	0.	0.	2.01-11	2.72-09
6.00 01	0.	0.	0.	0.	0.	0.	2.35-10	3.06-10
8.00 01	0.	0.	0.	0.	0.	0.	6.65-10	4.87-10
9.00 01	0.	0.	0.	0.	0.	6.90-11	6.53-09	1.01-09
1.00 02	0.	0.	0.	0.	0.	4.04-12	3.71-09	1.26-09
1.20 02	0.	0.	0.	0.	1.32-11	6.19-10	3.05-10	5.40-10
1.40 02	0.	0.	0.	0.	2.64-11	4.15-10	3.83-10	1.12-09
1.60 02	0.	0.	3.60-12	1.92-11	6.52-10	7.51-09	2.55-10	1.82-09
1.80 02	0.	0.	0.	2.11-11	5.06-11	1.69-08	4.65-10	2.49-09
	0.	0.	6.25-13	4.60-12	1.28-10	2.65-09	2.34-09	4.17-09
	0.	0.	6.25-13	2.31-12	8.23-11	5.89-10	1.20-09	2.12-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.23-10	6.71-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.08-09
6.00 01	0.	0.	0.	0.	0.	0.	2.15-10	1.40-08
8.00 01	0.	0.	0.	0.	2.11-09	7.65-11	1.91-09	4.15-10
9.00 01	0.	0.	0.	0.	0.	9.74-14	3.12-09	6.98-10
1.00 02	0.	0.	0.	0.	1.71-10	4.48-11	5.80-09	1.13-09
1.20 02	0.	0.	0.	0.	8.60-12	2.68-09	3.29-08	1.73-09
1.40 02	0.	0.	0.	0.	1.61-11	8.10-10	1.61-09	1.04-09
1.60 02	0.	0.	0.	3.77-11	4.14-11	5.77-08	6.03-10	1.68-09
1.80 02	0.	0.	0.	1.09-12	6.66-11	1.02-08	6.88-10	7.57-10
	0.	0.	0.	6.62-12	7.37-10	1.18-08	1.35-08	6.13-09
	0.	0.	0.	5.06-12	6.89-10	6.46-09	8.18-09	3.34-09

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AIR SCATTERING 5.28 02 ENERGY 1.00 ANGLE 1.00 DIST. 3.05 02
4.90 01 1.73 03 0. 0. 5.56 04 5.00 01 1.80 03

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	3.28-05
0.	0.	0.	0.	0.	0.	0.	6.67-06
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	5.92-06
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	2.39-06
0.	0.	0.	0.	0.	0.	0.	2.77-06
0.	0.	0.	0.	0.	0.	0.	
							4.75-06

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
4.01-10	1.10-10	3.88-11	4.04-11	7.53-13	6.51-16	3.92-33	2.09-05	8.37-06
2.56-09	1.25-09	2.52-10	3.12-09	2.83-12	5.79-15	3.46-28	4.25-06	4.24-06
1.45-09	7.47-10	1.29-10	1.89-10	2.03-12	2.36-18	3.30-29	1.59-10	6.98-11
3.14-10	3.09-10	4.04-11	2.13-11	5.28-12	1.46-14	2.92-24	6.92-11	2.79-11
1.11-08	1.91-10	3.87-11	2.75-11	3.90-13	1.17-14	2.54-29	3.77-06	3.77-06
3.00-10	2.84-10	2.51-10	7.22-11	1.35-12	3.56-17	3.38-27	1.39-10	4.76-11
5.99-10	4.33-10	2.05-10	3.04-11	3.92-13	6.00-17	4.15-25	1.62-10	3.93-11
1.15-09	9.19-10	2.47-10	1.98-10	4.04-13	9.93-17	3.09-25	2.93-10	1.06-10
1.67-09	6.46-10	3.29-10	8.55-11	1.58-13	1.05-16	1.02-30	1.52-06	1.21-06
6.00-10	1.09-09	8.54-10	6.28-11	1.15-13	1.07-17	1.63-33	1.76-06	6.36-07
3.76-09	1.17-09	3.85-10	7.00-10	3.37-12	7.90-15	1.17-24		
1.87-09	3.04-10	8.65-11	4.94-10	1.75-12	5.19-15	6.87-25	3.02-06	1.13-06

PHI 45 TO 90 DEGREES

3.85-10	4.06-10	2.42-10	3.33-11	4.02-12	9.40-16	8.25-32	2.86-11	1.08-11
1.37-10	8.42-11	2.22-09	6.95-12	9.07-12	2.22-18	4.28-27	5.84-11	2.81-11
5.20-10	2.86-10	1.15-10	1.79-10	4.85-13	6.10-15	9.83-24	2.61-10	1.70-10
3.76-10	7.67-10	2.14-10	4.14-11	6.32-12	2.15-16	6.50-22	1.31-10	4.58-11
5.22-10	5.94-11	8.08-11	3.91-11	4.99-13	5.20-18	1.46-27	2.45-10	1.49-10
3.60-10	1.04-09	2.29-10	1.67-11	1.12-13	7.27-17	1.35-27	1.31-10	5.33-11
4.41-09	9.83-10	5.71-10	1.73-11	1.14-12	6.60-16	2.27-22	5.56-10	2.50-10
1.12-09	4.07-10	1.06-10	1.95-11	1.66-13	8.46-16	1.57-24	1.67-10	4.39-11
2.26-09	6.39-10	1.21-10	1.33-10	1.21-12	2.50-14	2.89-24	3.69-10	9.40-11
1.18-09	1.97-10	4.08-10	3.99-11	1.05-13	8.69-17	5.59-31	1.89-09	5.99-10
2.65-09	1.11-09	8.15-10	1.10-10	4.75-12	6.54-15	2.90-22		
1.05-09	3.15-10	4.04-10	3.95-11	2.19-12	4.63-15	2.24-22	5.93-10	1.08-10

PHI 90 TO 135 DEGREES

7.78-10	4.17-10	7.46-11	1.42-12	4.44-11	1.39-17	8.01-26	1.22-09	1.17-09
6.28-10	3.65-10	1.14-10	3.94-11	8.97-12	2.65-15	4.23-24	1.16-10	6.30-11
1.89-10	2.78-10	2.49-10	4.38-11	4.71-12	5.78-14	7.73-30	3.21-11	7.38-12
1.94-09	1.54-10	2.07-10	8.86-10	1.44-12	2.17-18	1.81-29	1.04-10	3.34-11
1.09-08	4.10-10	9.73-10	8.13-11	1.36-12	3.43-18	1.78-28	5.91-10	3.52-10
9.17-10	3.46-10	5.07-10	6.41-11	1.78-13	2.48-16	5.79-30	2.26-10	1.16-10
5.58-10	4.11-10	2.98-10	1.66-10	1.35-12	2.55-16	4.19-26	8.79-11	2.67-11
1.01-09	4.23-10	2.65-10	1.96-10	1.66-12	5.32-16	9.83-25	1.13-10	3.85-11
7.82-10	4.08-10	2.70-10	8.08-11	6.18-13	3.44-16	3.71-27	5.38-10	1.49-10
3.44-09	2.93-10	1.23-09	3.46-11	1.84-13	4.56-17	1.44-28	1.06-09	2.49-10
3.69-09	6.79-10	7.04-10	4.56-10	7.22-12	1.62-14	1.02-24		
1.78-09	1.01-10	1.65-10	2.60-10	4.37-12	1.33-14	5.87-25	4.95-10	1.03-10

PHI 135 TO 180 DEGREES

9.45-11	1.07-10	6.00-11	2.20-12	4.25-12	1.33-19	8.71-31	2.42-10	1.97-10
4.04-10	2.24-10	5.74-11	1.13-11	3.89-11	1.68-18	3.26-24	8.52-11	4.81-11
1.35-09	4.17-10	2.20-09	1.11-10	1.41-11	1.69-14	5.29-29	5.53-10	4.16-10
9.44-10	6.95-10	4.97-10	3.88-11	8.85-14	2.51-14	8.60-25	3.24-10	1.99-10
5.28-10	2.54-10	5.03-11	3.51-11	9.49-13	9.90-15	9.19-28	1.66-10	1.09-10
1.56-10	2.24-10	9.35-11	1.19-11	6.19-12	4.47-17	4.09-29	2.97-10	1.21-10
7.56-10	1.03-09	3.08-10	2.30-11	3.55-13	1.29-16	1.03-22	1.55-09	1.01-09
4.13-10	8.26-10	1.10-09	3.02-10	1.12-12	3.77-17	3.54-26	1.80-10	3.86-11
4.18-09	1.82-09	4.12-10	7.91-11	4.22-12	6.30-17	1.66-25	3.11-09	1.85-09
2.08-09	3.99-10	2.40-10	7.03-11	6.58-13	2.74-19	4.40-29	6.29-10	1.73-10
2.07-09	1.36-09	1.26-09	1.58-10	1.32-11	1.45-14	3.44-23		
5.10-10	2.98-10	6.24-10	6.91-11	7.57-12	1.06-14	3.35-23	1.49-09	4.80-10
							4.75-06	1.77-06

AIR SCATTERING 5.29 02 ENERGY 1.00 ANGLE 1.50 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	5.28-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	1.36-06	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	6.76-07	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	5.64-07	0.	0.	0.	0.
9.00 01	0.	0.	0.	2.33-07	2.43-07	0.	0.	0.
1.00 02	0.	0.	0.	0.	4.35-07	0.	0.	0.
1.20 02	0.	0.	0.	0.	4.96-07	0.	0.	0.
1.40 02	0.	0.	0.	0.	5.80-07	0.	0.	0.
1.60 02	0.	0.	0.	0.	7.21-08	1.30-06	0.	0.
1.80 02	0.	0.	0.	0.	0.	6.36-07	0.	0.
	3.18-07	2.36-07	1.80-07	2.24-07	4.46-07	2.64-07	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	3.36-06	0.	0.	0.	0.	0.	0.	1.70-08
4.00 01	0.	8.64-07	0.	0.	0.	0.	3.44-08	2.80-09
6.00 01	0.	0.	4.31-07	0.	0.	0.	7.85-10	2.05-08
8.00 01	0.	0.	0.	3.59-07	0.	0.	2.15-09	9.51-10
9.00 01	0.	0.	0.	1.48-07	1.54-07	4.05-12	1.62-09	2.42-09
1.00 02	0.	0.	0.	0.	2.77-07	2.24-12	2.50-10	5.70-10
1.20 02	0.	0.	0.	0.	3.15-07	2.69-10	5.01-08	6.19-10
1.40 02	0.	0.	0.	0.	3.69-07	1.15-08	1.16-09	3.73-10
1.60 02	0.	0.	0.	0.	4.59-08	8.90-07	6.54-09	1.87-09
1.80 02	0.	0.	0.	5.28-11	2.88-09	4.35-07	6.48-10	1.46-09
	2.03-07	1.50-07	1.15-07	1.43-07	2.84-07	1.84-07	2.51-08	8.52-09
	4.20-08	5.29-08	5.12-08	6.40-08	6.70-08	2.16-08	1.45-08	5.33-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	3.10-10
4.00 01	0.	0.	0.	0.	0.	0.	7.31-11	5.86-09
6.00 01	0.	0.	0.	0.	0.	0.	1.63-10	6.59-10
8.00 01	0.	0.	0.	0.	0.	1.83-12	1.02-09	1.25-09
9.00 01	0.	0.	0.	0.	0.	1.42-13	1.07-08	2.11-09
1.00 02	0.	0.	0.	0.	0.	6.52-08	9.35-09	1.59-10
1.20 02	0.	0.	0.	0.	0.	3.23-10	4.24-09	1.25-08
1.40 02	0.	0.	0.	0.	2.87-12	3.89-09	7.70-10	1.40-09
1.60 02	0.	0.	0.	0.	9.67-13	8.02-09	1.33-09	1.01-09
1.80 02	0.	0.	0.	1.10-11	7.95-12	7.69-09	4.28-10	7.47-09
	0.	0.	0.	6.65-13	1.41-12	1.43-08	5.72-09	7.10-09
	0.	0.	0.	4.71-13	8.30-13	1.10-08	2.50-09	3.14-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	9.33-10
4.00 01	0.	0.	0.	0.	0.	0.	8.02-13	1.96-09
6.00 01	0.	0.	0.	0.	0.	7.55-12	1.19-10	3.23-10
8.00 01	0.	0.	0.	0.	0.	2.62-13	3.49-10	4.31-10
9.00 01	0.	0.	0.	0.	0.	7.63-09	6.36-09	5.82-11
1.00 02	0.	0.	0.	0.	0.	9.33-13	6.22-09	6.05-10
1.20 02	0.	0.	0.	0.	6.73-14	1.84-10	1.03-09	8.12-10
1.40 02	0.	0.	0.	2.23-15	1.83-13	4.34-09	4.06-09	5.05-10
1.60 02	0.	0.	0.	1.62-12	2.68-11	7.91-09	1.64-09	6.44-10
1.80 02	0.	0.	0.	4.43-13	7.55-13	1.22-09	1.53-09	2.11-09
	0.	0.	0.	3.08-13	4.77-12	3.99-09	4.13-09	1.38-09
	0.	0.	0.	2.82-13	3.83-12	1.75-09	1.54-09	3.00-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	6.16-12	4.79-08
4.00 01	0.	0.	0.	0.	0.	0.	2.40-11	1.84-10
6.00 01	0.	0.	0.	0.	0.	0.	2.12-08	1.22-09
8.00 01	0.	0.	0.	0.	0.	5.40-13	9.41-10	5.02-10
9.00 01	0.	0.	0.	0.	0.	1.74-12	7.14-10	4.14-10
1.00 02	0.	0.	0.	0.	0.	0.	4.90-09	4.67-10
1.20 02	0.	0.	0.	0.	0.	3.98-11	1.09-08	4.68-10
1.40 02	0.	0.	0.	0.	3.33-12	2.57-10	9.57-10	2.07-10
1.60 02	0.	0.	0.	3.06-14	4.38-12	1.16-08	8.41-10	4.24-10
1.80 02	0.	0.	0.	1.46-11	1.05-11	4.23-09	2.65-10	3.54-10
	0.	0.	0.	8.85-13	2.28-12	2.35-09	1.09-08	3.87-09
	0.	0.	0.	8.75-13	1.08-12	1.88-09	6.24-09	2.90-09

33052455774 1 31736250734 1

AIR SCATTERING 5.29 02 ENERGY 1.00 ANGLE 1.50 01 DIST. 3.05 02
6.00 01 1.73 03 0. 0. 5.56 04 5.00 01 1.80 03

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	1.37-06
0.	0.	0.	0.	0.	0.	0.	2.58-07
0.	0.	0.	0.	0.	0.	0.	1.01-07
0.	0.	0.	0.	0.	0.	0.	5.64-08
0.	0.	0.	0.	0.	0.	0.	4.51-08
0.	0.	0.	0.	0.	0.	0.	3.92-08
0.	0.	0.	0.	0.	0.	0.	4.46-08
0.	0.	0.	0.	0.	0.	0.	5.22-08
0.	0.	0.	0.	0.	0.	0.	7.14-08
0.	0.	0.	0.	0.	0.	0.	3.18-08
0.	0.	0.	0.	0.	0.	0.	2.30-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
2.05-09	9.91-10	8.54-10	7.70-12	2.64-16	8.72-21	2.32-26	8.75-07	1.81-07
2.97-10	5.11-10	1.13-10	1.59-11	2.41-12	8.02-19	3.08-24	1.66-07	5.83-08
7.96-10	3.90-10	6.13-10	1.91-10	7.16-12	2.45-16	1.64-25	6.54-08	2.92-08
1.22-09	5.48-10	3.23-10	1.93-10	1.49-12	7.28-13	1.79-26	3.61-08	1.80-08
1.91-10	1.92-10	8.03-10	2.39-11	3.09-12	6.06-17	4.68-26	2.89-08	2.03-08
6.45-09	2.30-10	9.62-11	2.03-10	1.73-12	4.75-17	1.45-26	2.51-08	1.76-08
9.51-10	7.73-10	3.72-10	1.10-10	2.69-11	6.88-16	1.55-22	3.05-08	1.18-08
7.14-10	5.26-10	4.70-10	2.60-10	1.90-11	2.79-16	5.20-24	3.39-08	9.64-09
2.24-10	6.83-10	4.85-10	2.29-11	5.46-13	3.38-17	4.31-25	4.90-08	6.84-09
1.15-09	5.53-10	8.61-11	1.96-10	5.80-11	9.51-16	8.00-24	2.21-08	1.44-09
2.55-09	1.05-09	8.32-10	2.77-10	2.11-11	2.38-13	5.31-23		
1.12-09	1.84-10	1.85-10	8.45-11	1.07-11	2.37-13	5.06-23	1.49-07	1.88-08

PHI 45 TO 90 DEGREES

1.71-10	1.87-10	8.90-11	8.05-12	1.35-14	2.15-17	4.28-21	1.88-11	7.24-12
3.39-10	4.96-11	1.88-10	2.90-11	1.95-12	1.85-14	5.10-27	2.14-10	1.66-10
1.99-10	2.37-10	8.68-10	2.90-11	1.93-12	3.98-16	2.37-25	4.81-11	1.28-11
7.32-10	5.93-10	8.07-11	1.84-09	1.36-12	5.80-18	9.94-26	1.28-10	3.24-11
4.18-10	1.99-10	1.14-10	2.63-10	2.86-13	4.20-15	9.52-28	5.17-10	4.16-10
2.98-10	3.70-10	2.04-10	6.27-11	6.13-13	4.42-17	2.44-23	3.66-09	3.18-09
1.22-09	2.10-09	3.69-10	2.60-10	4.69-13	3.11-16	1.58-22	6.81-10	3.66-10
8.71-10	7.74-10	3.41-10	1.94-10	1.10-11	9.24-18	6.72-25	3.13-10	1.15-10
1.16-09	2.52-10	2.80-10	6.51-10	9.27-14	2.17-16	1.50-26	5.31-10	1.42-10
1.51-09	4.67-10	1.86-10	4.20-11	1.17-11	6.83-15	2.95-25	7.05-10	1.96-10
1.41-09	1.34-09	6.54-10	9.23-10	5.25-12	4.61-15	3.14-22		
2.95-10	5.32-10	2.11-10	4.91-10	2.33-12	3.30-15	2.62-22	1.26-09	5.72-10

PHI 90 TO 135 DEGREES

6.79-11	1.14-11	2.85-10	5.41-12	4.44-14	3.74-19	6.56-22	3.71-11	2.55-11
1.46-10	3.24-10	3.83-10	6.07-11	2.41-12	4.75-15	1.85-27	8.04-11	4.31-11
9.09-11	1.82-10	2.28-10	6.57-11	1.49-11	5.03-17	1.99-27	2.45-11	8.58-12
1.85-10	8.97-11	1.55-10	2.87-11	8.39-12	3.53-14	7.20-26	3.68-11	1.26-11
5.56-10	2.00-10	6.63-11	1.90-10	4.30-12	1.11-16	9.71-21	6.57-10	4.30-10
1.34-10	3.83-10	3.01-10	1.03-10	9.06-13	5.87-17	1.06-23	2.83-10	2.31-10
7.89-10	3.51-10	3.32-10	2.22-10	3.35-12	1.58-15	3.75-23	1.09-10	2.29-11
3.36-10	1.74-10	1.12-10	3.44-10	9.69-13	1.36-16	1.74-29	4.12-10	1.78-10
1.28-09	3.02-10	2.73-10	1.06-10	4.87-12	7.90-15	3.31-26	5.26-10	2.54-10
3.21-10	3.19-10	6.87-10	6.72-11	1.41-12	1.19-17	5.18-26	2.16-10	7.38-11
8.23-10	4.68-10	4.85-10	2.75-10	1.03-11	1.43-14	1.74-21		
1.97-10	7.14-11	8.88-11	1.16-10	4.75-12	1.16-14	1.69-21	4.48-10	1.31-10

PHI 135 TO 180 DEGREES

1.41-10	6.59-11	3.32-10	1.40-10	1.09-13	1.29-15	8.99-28	1.64-09	1.62-09
5.94-10	1.55-09	2.40-10	1.88-11	7.04-13	9.62-16	4.65-24	4.84-11	2.35-11
9.87-11	5.78-10	6.30-10	5.15-11	4.56-12	3.04-16	9.92-28	9.09-10	8.19-10
1.28-09	1.63-09	8.65-11	8.10-11	3.30-11	1.89-15	4.58-25	1.13-10	4.17-11
1.12-09	1.60-09	6.03-10	3.67-11	4.74-13	1.65-16	2.73-23	1.02-10	3.38-11
1.54-10	4.35-10	1.64-10	2.11-11	7.35-14	2.31-15	1.15-25	2.25-10	1.57-10
7.80-10	1.23-09	3.12-10	3.00-11	3.07-13	3.02-17	8.01-24	4.95-10	3.64-10
4.34-09	1.07-09	1.19-10	1.02-11	2.93-14	1.81-16	2.55-26	1.85-10	8.52-11
5.44-10	3.91-10	8.55-11	1.82-11	7.89-14	1.06-15	5.16-28	6.50-10	5.44-10
3.19-10	4.70-10	4.43-10	1.77-10	1.98-13	3.53-18	1.42-24	2.59-10	1.08-10
2.30-09	2.09-09	5.66-10	8.79-11	1.23-11	1.61-15	8.45-24		
9.48-10	5.72-10	1.75-10	1.94-11	1.07-11	6.99-16	5.11-24	7.82-10	3.69-10
							2.38-07	2.98-08

AIR SCATTERING 5.30 02 ENERGY 1.00 ANGLE 3.00 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	5.05-07	1.68-06	0.	0.	0.	0.	0.	0.
4.00 01	0.	1.38-07	3.88-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	1.00-07	2.31-07	0.	0.	0.	0.
8.00 01	0.	0.	0.	1.33-07	1.29-07	0.	0.	0.
9.00 01	0.	0.	0.	0.	2.06-07	0.	0.	0.
1.00 02	0.	0.	0.	0.	2.45-07	0.	0.	0.
1.20 02	0.	0.	0.	0.	2.24-07	0.	0.	0.
1.40 02	0.	0.	0.	0.	1.04-07	3.00-07	0.	0.
1.60 02	0.	0.	0.	0.	0.	2.33-07	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	3.05-08	1.25-07	9.42-08	1.05-07	2.22-07	1.20-07	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	3.22-07	1.07-06	0.	0.	0.	0.	4.72-11	1.11-09
4.00 01	0.	8.76-08	2.47-07	0.	0.	0.	1.62-08	1.43-10
6.00 01	0.	0.	6.40-08	1.47-07	0.	0.	6.09-10	1.35-10
8.00 01	0.	0.	0.	8.50-08	8.24-08	6.69-10	2.08-09	5.59-10
9.00 01	0.	0.	0.	0.	1.31-07	5.41-12	6.08-09	5.49-10
1.00 02	0.	0.	0.	0.	1.56-07	3.44-09	2.10-09	3.28-10
1.20 02	0.	0.	0.	0.	1.43-07	2.30-09	1.21-09	7.54-10
1.40 02	0.	0.	0.	0.	6.64-08	2.03-07	4.97-10	3.22-09
1.60 02	0.	0.	0.	0.	2.41-10	1.82-07	6.22-10	4.01-09
1.80 02	0.	0.	0.	0.	1.13-10	4.53-09	1.90-09	9.58-10
	1.94-08	7.98-08	5.99-08	6.68-08	1.41-07	8.74-08	5.82-09	2.32-09
	7.91-09	1.99-08	1.89-08	2.23-08	2.40-08	7.63-09	2.84-09	6.26-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.37-10	1.12-09
4.00 01	0.	0.	0.	0.	0.	0.	1.85-10	6.46-10
6.00 01	0.	0.	0.	0.	0.	0.	9.73-09	1.63-09
8.00 01	0.	0.	0.	0.	0.	4.86-14	1.09-09	6.29-10
9.00 01	0.	0.	0.	0.	0.	8.42-13	1.00-09	4.30-10
1.00 02	0.	0.	0.	0.	0.	5.48-11	4.41-09	6.49-10
1.20 02	0.	0.	0.	0.	1.90-13	1.43-09	1.69-09	2.49-09
1.40 02	0.	0.	0.	0.	1.13-10	8.73-10	3.79-10	6.92-10
1.60 02	0.	0.	0.	6.88-13	5.45-11	1.37-08	1.18-09	9.88-10
1.80 02	0.	0.	0.	2.45-10	2.44-10	6.06-09	5.90-10	6.73-10
	0.	0.	0.	1.49-11	5.42-11	3.46-09	4.82-09	2.22-09
	0.	0.	0.	1.48-11	2.75-11	1.20-09	2.05-09	7.20-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	6.22-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.01-09
6.00 01	0.	0.	0.	0.	0.	0.	3.72-10	2.65-10
8.00 01	0.	0.	0.	0.	0.	0.	3.24-10	6.60-10
9.00 01	0.	0.	0.	0.	0.	7.43-12	8.81-09	8.39-10
1.00 02	0.	0.	0.	0.	0.	1.03-10	4.14-09	2.27-10
1.20 02	0.	0.	0.	0.	2.17-11	1.55-12	1.52-09	4.97-10
1.40 02	0.	0.	0.	1.89-13	3.30-11	8.37-11	3.38-09	4.93-10
1.60 02	0.	0.	0.	0.	1.17-10	3.47-10	2.37-09	4.00-10
1.80 02	0.	0.	0.	2.66-13	0.	8.49-10	1.50-10	4.85-09
	0.	0.	0.	6.64-14	3.62-11	1.53-10	4.27-09	1.83-09
	0.	0.	0.	5.18-14	2.28-11	4.17-11	1.37-09	6.23-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.31-09
4.00 01	0.	0.	0.	0.	0.	0.	8.72-12	1.74-09
6.00 01	0.	0.	0.	0.	0.	0.	1.39-13	4.45-09
8.00 01	0.	0.	0.	0.	0.	4.36-13	8.13-10	2.52-09
9.00 01	0.	0.	0.	0.	0.	0.	4.95-10	2.01-09
1.00 02	0.	0.	0.	0.	0.	4.17-14	4.16-10	1.12-10
1.20 02	0.	0.	0.	0.	0.	1.84-12	2.97-10	8.73-10
1.40 02	0.	0.	0.	0.	1.55-13	3.49-12	2.79-09	1.42-09
1.60 02	0.	0.	0.	0.	3.55-10	1.97-11	4.88-10	1.57-09
1.80 02	0.	0.	0.	0.	8.73-12	8.04-10	2.04-09	7.62-10
	0.	0.	0.	0.	6.23-11	5.36-11	1.47-09	3.74-09
	0.	0.	0.	0.	6.07-11	2.92-11	5.98-10	1.03-09

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AIR SCATTERING 5.30 02 ENERGY 1.00 ANGLE 3.00 01 DIST. 3.05 02

6.00 01	1.73 03	0.	0.	5.54 04	5.00 01	1.80 03		

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
0.	0.	0.	0.	0.	0.	0.	4.51-07	
0.	0.	0.	0.	0.	0.	0.	8.44-08	
0.	0.	0.	0.	0.	0.	0.	3.82-08	
0.	0.	0.	0.	0.	0.	0.	2.50-08	
0.	0.	0.	0.	0.	0.	0.	1.86-08	
0.	0.	0.	0.	0.	0.	0.	2.21-08	
0.	0.	0.	0.	0.	0.	0.	2.02-08	
0.	0.	0.	0.	0.	0.	0.	2.44-08	
0.	0.	0.	0.	0.	0.	0.	1.17-08	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							8.23-08	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
4.46-11	2.61-10	9.48-11	6.36-12	1.32-14	2.93-18	3.36-24	2.87-07	6.56-08
3.04-10	7.51-10	5.23-11	1.34-11	1.38-12	1.30-16	9.44-26	5.44-08	1.72-08
6.80-10	1.32-09	7.89-10	1.36-11	1.39-13	1.08-17	1.19-24	2.44-08	8.58-09
2.85-10	1.01-10	2.45-10	8.22-12	3.26-12	5.15-16	2.32-25	1.61-08	5.63-09
1.27-09	2.83-10	2.28-10	1.60-11	4.08-12	1.79-15	2.28-30	1.21-08	5.92-09
3.90-09	4.87-09	5.40-11	1.00-10	5.18-12	7.04-16	4.70-27	1.45-08	5.75-09
1.38-09	4.49-10	3.01-10	1.61-10	4.91-12	4.12-16	3.65-24	1.31-08	3.10-09
8.64-10	1.78-10	6.77-10	1.12-10	2.42-12	2.33-15	9.09-26	1.63-08	2.07-09
2.89-09	7.52-10	5.61-10	3.10-10	8.94-14	2.47-16	5.24-27	9.37-09	7.87-10
2.12-09	1.76-09	2.28-10	1.47-11	8.10-15	1.33-18	4.49-26	4.28-10	1.34-10
2.54-09	1.86-09	7.43-10	1.66-10	5.21-12	1.42-15	1.83-24		
6.76-10	7.94-10	2.53-10	7.16-11	2.47-12	7.06-16	1.09-24	5.34-08	5.94-09

PHI 45 TO 90 DEGREES

6.24-09	9.37-10	3.13-10	1.03-11	3.40-15	1.06-16	1.17-29	2.17-10	1.51-10
7.70-10	1.26-09	3.15-10	5.00-11	3.58-12	6.35-18	3.07-31	7.18-11	2.57-11
9.34-10	1.86-10	2.62-10	1.69-11	6.57-13	4.41-17	2.32-26	4.74-10	2.99-10
5.14-10	1.08-09	2.91-09	5.31-11	3.29-12	8.97-16	4.72-26	1.29-10	3.80-11
2.83-09	3.61-10	3.08-09	1.96-11	1.72-12	2.28-15	1.97-22	1.68-10	6.09-11
6.69-10	1.61-10	4.43-10	3.29-11	8.82-13	1.32-16	1.32-26	2.26-10	9.67-11
4.04-10	4.15-10	1.20-09	1.72-10	9.46-12	2.45-14	1.99-23	2.56-10	9.58-11
1.19-09	4.25-10	4.43-10	8.46-10	1.04-11	6.85-16	5.05-27	1.42-10	3.01-11
1.02-09	3.27-09	3.07-10	5.21-10	3.34-12	7.71-16	5.03-28	8.55-10	3.23-10
4.53-10	3.61-10	8.85-11	2.38-11	1.48-13	9.34-19	8.45-29	4.14-10	1.84-10
2.19-09	1.61-09	2.27-09	4.13-10	8.77-12	9.05-15	4.07-23		
5.62-10	5.84-10	1.07-09	1.93-10	3.28-12	8.01-15	3.47-23	5.57-10	1.19-10

PHI 90 TO 135 DEGREES

4.26-09	1.37-11	3.51-10	1.21-11	6.19-13	1.90-17	2.86-29	1.13-10	7.61-11
3.02-09	6.48-10	8.31-10	8.27-11	3.10-13	3.30-17	1.72-28	2.32-10	1.14-10
2.27-10	2.20-09	6.64-10	9.42-11	7.64-13	4.54-16	2.55-28	7.11-11	2.77-11
3.21-10	1.01-10	1.55-09	4.46-11	5.17-12	2.16-16	3.68-24	6.40-11	2.10-11
1.65-09	2.86-10	7.42-10	1.64-11	3.32-13	5.77-16	2.33-28	4.36-10	2.49-10
8.08-11	1.31-10	3.83-10	1.68-11	3.85-12	5.35-19	1.39-30	1.87-10	1.56-10
1.19-10	3.10-10	2.27-10	2.80-10	9.39-12	3.41-16	3.58-27	9.26-11	2.86-11
5.38-10	9.34-10	8.80-10	1.06-09	1.55-11	8.24-15	1.34-22	2.07-10	6.79-11
1.55-09	3.10-10	8.15-11	1.73-10	2.33-11	1.50-15	8.84-24	1.82-10	6.55-11
5.06-10	3.81-10	6.13-10	6.18-11	6.20-14	1.43-17	1.21-26	2.40-10	1.38-10
1.74-09	1.23-09	1.40-09	4.54-10	1.39-11	2.86-15	3.84-23		
4.66-10	4.41-10	5.58-10	2.23-10	5.80-12	1.82-15	3.65-23	3.27-10	6.28-11

PHI 135 TO 180 DEGREES

1.02-09	2.53-09	2.10-10	1.34-11	2.50-14	3.03-21	6.68-28	1.11-10	4.71-11
1.34-09	3.76-10	1.76-09	2.70-11	5.07-13	3.73-16	6.86-27	1.20-10	4.46-11
1.87-10	8.46-10	3.12-10	4.03-10	9.50-13	1.45-16	7.19-26	1.76-10	1.06-10
3.63-09	1.28-09	5.38-10	1.64-09	2.18-11	1.05-17	7.51-24	2.50-10	8.71-11
3.57-10	1.33-09	3.26-10	4.56-11	4.66-12	1.99-16	2.22-25	1.21-10	6.19-11
1.06-10	8.08-10	2.45-10	1.22-10	2.92-13	2.51-18	1.30-26	3.93-11	1.64-11
4.26-10	9.42-10	1.01-10	6.49-11	1.21-11	6.63-17	1.40-26	6.84-11	1.67-11
8.05-10	5.22-10	5.53-10	1.08-10	5.06-12	3.35-14	1.13-22	1.96-10	9.13-11
3.32-10	1.94-09	2.08-10	1.15-10	5.56-12	4.35-14	7.22-24	1.47-10	5.03-11
4.81-10	1.82-09	1.17-09	2.21-11	3.06-12	9.10-18	1.00-28	2.02-10	7.40-11
2.05-09	4.13-09	9.64-10	7.48-10	1.48-11	1.67-14	3.38-23		
9.58-10	5.89-10	3.07-10	3.91-10	9.15-12	1.31-14	2.99-23	2.96-10	5.85-11
							8.57-08	9.36-09

AIR SCATTERING 5.31 02 ENERGY 1.00 ANGLE 6.00 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01 0.	0.	6.06-07	2.10-07	0.	0.	0.	0.
4.00 01 0.	0.	0.	2.83-07	0.	0.	0.	0.
6.00 01 0.	0.	0.	0.	1.80-07	0.	0.	0.
8.00 01 0.	0.	0.	0.	1.32-07	0.	0.	0.
9.00 01 0.	0.	0.	0.	1.24-07	0.	0.	0.
1.00 02 0.	0.	0.	0.	8.29-08	5.65-08	0.	0.
1.20 02 0.	0.	0.	0.	0.	1.53-07	0.	0.
1.40 02 0.	0.	0.	0.	0.	0.	0.	0.
1.60 02 0.	0.	0.	0.	0.	0.	0.	0.
1.80 02 0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	3.65-08	6.18-08	1.27-07	5.98-08	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01 0.	0.	3.86-07	1.34-07	0.	0.	7.94-10	7.70-10
4.00 01 0.	0.	0.	1.80-07	0.	0.	1.90-09	9.36-10
6.00 01 0.	0.	0.	0.	1.14-07	2.48-12	4.71-09	6.36-10
8.00 01 0.	0.	0.	0.	8.37-08	4.05-09	1.23-09	5.49-10
9.00 01 0.	0.	0.	0.	7.86-08	6.46-09	1.41-09	6.54-10
1.00 02 0.	0.	0.	0.	3.60-08	4.37-08	4.41-10	4.20-10
1.20 02 0.	0.	0.	0.	2.07-11	1.14-07	1.17-09	1.60-09
1.40 02 0.	0.	0.	6.24-12	1.68-11	1.09-08	1.94-09	8.16-10
1.60 02 0.	0.	0.	0.	1.20-09	2.23-09	3.04-10	5.08-10
1.80 02 0.	0.	0.	0.	3.49-13	2.81-10	2.05-09	4.68-10
0.	0.	2.33-08	3.93-08	8.14-08	5.06-08	3.43-09	1.60-09
0.	0.	6.70-09	9.81-09	1.04-08	3.67-09	8.09-10	2.19-10

PHI 45 TO 90 DEGREES

2.00 01 0.	0.	0.	0.	0.	0.	2.19-09	6.26-10
4.00 01 0.	0.	0.	0.	0.	0.	1.71-09	4.73-10
6.00 01 0.	0.	0.	0.	0.	0.	1.30-09	1.09-10
8.00 01 0.	0.	0.	0.	0.	3.55-10	9.45-10	7.73-10
9.00 01 0.	0.	0.	0.	0.	4.09-11	1.69-09	7.21-10
1.00 02 0.	0.	0.	0.	0.	8.10-10	2.02-09	8.70-10
1.20 02 0.	0.	0.	0.	0.	6.90-10	2.51-09	8.29-10
1.40 02 0.	0.	0.	0.	6.25-12	1.97-09	1.15-09	1.71-09
1.60 02 0.	0.	0.	0.	3.76-11	1.10-08	8.58-10	6.21-10
1.80 02 0.	0.	0.	0.	3.16-12	2.00-10	1.30-10	2.11-10
0.	0.	0.	0.	1.19-11	2.92-09	2.99-09	1.47-09
0.	0.	0.	0.	1.01-11	1.47-09	6.58-10	3.09-10

PHI 90 TO 135 DEGREES

2.00 01 0.	0.	0.	0.	0.	0.	8.98-10	5.43-10
4.00 01 0.	0.	0.	0.	0.	0.	6.31-11	9.54-10
6.00 01 0.	0.	0.	0.	0.	0.	4.80-10	2.03-10
8.00 01 0.	0.	0.	0.	0.	0.	1.06-09	4.18-09
9.00 01 0.	0.	0.	0.	0.	6.48-12	2.12-09	9.79-10
1.00 02 0.	0.	0.	0.	0.	0.	5.01-10	1.38-10
1.20 02 0.	0.	0.	0.	3.63-12	5.01-12	3.76-09	1.49-09
1.40 02 0.	0.	0.	0.	3.80-13	5.84-11	1.54-09	4.17-10
1.60 02 0.	0.	0.	0.	6.62-12	3.92-10	5.87-10	6.65-10
1.80 02 0.	0.	0.	0.	0.	2.22-12	1.71-08	3.01-10
0.	0.	0.	0.	2.44-12	8.66-11	3.44-09	2.58-09
0.	0.	0.	0.	1.37-12	5.27-11	1.22-09	1.33-09

PHI 135 TO 180 DEGREES

2.00 01 0.	0.	0.	0.	0.	0.	1.35-11	1.47-08
4.00 01 0.	0.	0.	0.	0.	0.	3.07-13	6.04-09
6.00 01 0.	0.	0.	0.	0.	0.	1.17-12	2.15-09
8.00 01 0.	0.	0.	0.	0.	0.	2.22-10	6.54-09
9.00 01 0.	0.	0.	0.	0.	0.	6.33-11	7.31-10
1.00 02 0.	0.	0.	0.	0.	0.	2.98-11	3.34-09
1.20 02 0.	0.	0.	0.	0.	1.66-12	1.16-09	3.59-10
1.40 02 0.	0.	0.	0.	0.	0.	8.34-09	3.47-09
1.60 02 0.	0.	0.	0.	3.63-11	3.79-12	5.75-10	6.59-10
1.80 02 0.	0.	0.	0.	0.	5.80-11	9.90-11	3.10-09
0.	0.	0.	0.	6.30-12	4.70-12	2.76-09	6.69-09
0.	0.	0.	0.	6.30-12	3.58-12	2.19-09	2.40-09

1276343n5625 007752202641

AIR SCATTERING 5.31 02 ENERGY 1.00 ANGLE 6.00 01 DIST. 3.05 02
5.20 01 1.74 03 0. 0. 5.56 04 5.00 01 1.80 03

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	1.12-07
0.	0.	0.	0.	0.	0.	0.	2.83-08
0.	0.	0.	0.	0.	0.	0.	1.62-08
0.	0.	0.	0.	0.	0.	0.	1.18-08
0.	0.	0.	0.	0.	0.	0.	1.11-08
0.	0.	0.	0.	0.	0.	0.	1.03-08
0.	0.	0.	0.	0.	0.	0.	7.66-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	2.60-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
6.48-10	2.32-09	5.69-11	3.80-11	1.26-12	2.30-19	6.68-30	7.14-08	1.83-08
6.81-10	2.45-10	2.67-10	6.28-11	1.69-12	6.15-14	9.04-31	1.81-08	4.98-09
9.74-10	3.25-10	1.93-10	1.53-11	9.31-13	6.75-18	5.04-25	1.05-08	2.67-09
6.22-10	3.36-10	2.56-10	3.90-11	2.64-13	1.38-16	1.02-25	7.83-09	1.67-09
3.85-10	6.67-10	1.04-10	7.15-11	1.47-13	2.11-15	9.99-27	7.50-09	1.65-09
6.39-10	8.03-10	2.19-10	7.08-11	3.71-11	7.19-15	1.85-23	7.29-09	1.21-09
1.02-09	5.10-10	3.05-10	8.36-11	1.85-11	5.69-15	1.83-21	5.86-09	4.19-10
1.38-09	4.79-10	9.95-09	3.78-11	6.44-12	9.41-16	1.98-25	8.16-10	2.03-10
2.46-09	1.55-10	1.38-10	3.11-11	2.80-12	2.42-16	2.30-29	3.15-10	1.12-10
9.20-10	2.88-10	1.66-10	2.98-11	4.42-13	1.69-19	4.51-31	1.41-10	6.43-11
1.98-09	9.72-10	3.62-09	9.93-11	1.54-11	1.45-14	6.01-22		
4.97-10	1.81-10	2.59-09	3.90-11	1.15-11	1.11-14	5.98-22	1.76-08	1.68-09

PHI 45 TO 90 DEGREES

5.22-10	1.09-10	6.09-10	6.98-12	4.57-13	7.42-16	2.62-31	1.31-10	7.93-11
8.98-10	1.47-10	1.11-08	3.91-11	2.09-12	2.16-17	1.72-29	2.43-10	1.40-10
5.57-10	3.01-10	2.98-10	1.82-11	2.46-12	9.99-18	1.14-24	8.05-11	3.20-11
3.09-10	6.43-10	7.91-10	3.65-11	1.18-12	1.03-17	3.37-27	1.06-10	3.01-11
6.97-10	2.75-10	9.02-11	4.03-11	6.12-12	2.44-17	1.47-26	1.13-10	3.72-11
3.16-10	6.30-10	1.20-10	7.66-11	1.35-12	2.35-14	4.42-28	1.70-10	6.99-11
1.20-09	9.83-10	7.05-10	4.29-11	1.37-12	6.23-16	1.01-26	2.17-10	6.44-11
8.95-10	1.66-09	1.10-09	1.01-10	1.68-13	1.54-16	1.09-22	2.54-10	6.36-11
1.95-09	8.71-11	4.88-10	6.10-11	2.12-13	1.13-15	2.46-24	6.69-10	4.12-10
3.06-10	1.13-10	1.77-10	3.21-11	4.52-12	2.32-15	5.94-32	3.44-11	1.08-11
1.61-09	1.26-09	2.96-09	9.78-11	3.53-12	4.72-15	2.98-23		
3.07-10	2.91-10	1.91-09	2.07-11	1.24-12	3.64-15	2.91-23	4.12-10	8.42-11

PHI 90 TO 135 DEGREES

6.50-10	6.28-10	2.17-10	9.85-10	2.54-13	3.68-14	4.56-26	1.02-10	4.57-11
2.95-10	1.13-09	2.84-10	4.19-11	7.05-14	2.39-17	3.85-28	6.23-11	2.03-11
1.68-09	3.26-10	6.42-09	3.79-11	1.86-13	6.85-18	1.25-26	1.53-10	7.48-11
3.44-10	1.08-10	2.60-09	3.02-10	5.33-12	1.11-15	1.61-25	2.29-10	1.36-10
2.91-10	3.46-10	1.88-10	1.61-10	1.26-12	5.94-15	1.45-25	1.35-10	7.97-11
4.64-10	1.76-10	5.52-09	6.23-11	3.81-13	9.19-17	1.98-26	1.06-10	6.51-11
8.41-10	6.40-10	3.09-10	2.67-11	1.96-13	7.43-17	5.81-26	1.96-10	7.58-11
2.97-10	8.51-10	1.37-10	4.08-09	1.69-12	1.00-16	4.94-24	1.37-10	4.69-11
2.35-10	2.98-10	1.72-10	3.76-11	2.65-13	6.40-16	1.98-23	7.91-11	2.07-11
2.79-09	5.83-10	6.25-11	9.87-11	9.66-13	2.97-18	1.41-28	7.76-10	6.76-10
1.34-09	9.68-10	3.78-09	1.32-09	2.72-12	3.79-15	4.87-24		
3.64-10	4.26-10	2.23-09	1.09-09	1.30-12	2.72-15	4.63-24	3.35-10	7.35-11

PHI 135 TO 180 DEGREES

7.68-11	1.32-10	2.86-10	1.46-11	1.87-14	2.13-20	2.17-28	5.09-10	4.86-10
7.03-09	1.71-10	6.47-11	2.84-10	2.19-12	1.87-15	3.02-26	3.87-10	2.65-10
1.36-09	1.90-10	1.32-10	8.29-11	4.99-12	8.61-16	6.27-25	1.12-10	5.50-11
2.29-10	1.03-10	1.56-10	9.65-11	2.10-13	7.61-16	2.48-25	2.41-10	1.79-10
1.38-10	8.51-10	6.44-11	3.12-10	2.80-13	5.94-16	6.17-24	4.72-11	1.51-11
4.25-10	1.02-10	7.35-10	4.52-11	3.83-13	3.65-16	3.61-24	1.36-10	9.69-11
2.54-10	5.90-10	2.82-10	1.92-10	1.35-11	1.12-14	1.40-24	7.92-11	3.09-11
1.73-10	1.17-09	1.73-10	1.80-10	2.73-12	6.28-15	2.21-23	4.77-10	4.29-10
4.56-10	8.54-11	3.47-10	1.72-10	1.55-12	1.36-17	3.06-26	5.93-11	1.67-11
1.27-10	3.42-10	1.05-10	2.93-10	1.39-12	2.10-17	1.55-25	1.25-10	7.24-11
1.98-09	8.27-10	4.58-10	3.24-10	7.37-12	6.31-15	8.30-24		
1.28-09	2.99-10	1.20-10	1.05-10	3.98-12	2.86-15	5.80-24	4.09-10	1.65-10
							2.94-08	2.72-09

AIR SCATTERING 5.32 02 ENERGY 1.00 ANGLE 9.00 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	0.	3.53-07	3.05-07	0.	0.	0.
4.00 01	0.	0.	0.	0.	2.35-07	0.	0.	0.
6.00 01	0.	0.	0.	0.	1.36-07	0.	0.	0.
8.00 01	0.	0.	0.	0.	3.89-08	1.11-07	0.	0.
9.00 01	0.	0.	0.	0.	0.	8.04-08	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	2.13-08	1.08-07	5.01-08	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	0.	2.25-07	1.93-07	1.95-13	1.87-08	3.14-10
4.00 01	0.	0.	0.	0.	1.50-07	2.04-09	7.75-10	7.34-10
6.00 01	0.	0.	0.	0.	9.15-08	8.36-09	3.76-09	1.11-09
8.00 01	0.	0.	0.	0.	2.53-08	8.73-08	1.18-09	7.31-10
9.00 01	0.	0.	0.	0.	9.75-10	9.62-08	1.95-09	9.55-10
1.00 02	0.	0.	0.	0.	1.24-10	1.09-08	8.46-10	8.54-10
1.20 02	0.	0.	0.	0.	2.27-13	4.26-09	6.74-10	7.40-10
1.40 02	0.	0.	0.	0.	0.	1.57-09	1.66-09	8.94-10
1.60 02	0.	0.	0.	0.	0.	2.31-11	2.06-09	7.46-10
1.80 02	0.	0.	0.	0.	0.	4.69-13	1.86-10	3.43-11
	0.	0.	0.	1.36-08	7.04-08	5.15-08	4.16-09	1.60-09
	0.	0.	0.	4.78-09	8.39-09	6.05-09	1.26-09	2.14-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.49-09	9.16-10
4.00 01	0.	0.	0.	0.	0.	0.	8.35-09	4.98-10
6.00 01	0.	0.	0.	0.	0.	1.95-10	3.60-09	3.13-09
8.00 01	0.	0.	0.	0.	0.	5.53-11	3.51-09	7.90-10
9.00 01	0.	0.	0.	0.	0.	3.50-10	3.90-09	4.64-10
1.00 02	0.	0.	0.	0.	0.	4.06-10	2.65-09	8.73-10
1.20 02	0.	0.	0.	5.18-12	0.	1.32-10	1.77-09	6.36-10
1.40 02	0.	0.	0.	0.	3.05-13	1.48-10	3.34-09	2.08-10
1.60 02	0.	0.	0.	0.	0.	1.17-13	1.87-09	2.48-10
1.80 02	0.	0.	0.	0.	0.	0.	1.23-11	6.22-11
	0.	0.	0.	1.69-12	8.11-14	2.84-10	6.63-09	1.78-09
	0.	0.	0.	1.69-12	8.11-14	8.04-11	1.60-09	6.30-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.44-09	8.44-10
4.00 01	0.	0.	0.	0.	0.	0.	1.87-09	6.63-10
6.00 01	0.	0.	0.	0.	0.	0.	1.91-09	5.68-09
8.00 01	0.	0.	0.	0.	0.	0.	1.01-09	9.09-10
9.00 01	0.	0.	0.	0.	0.	1.40-11	5.53-10	7.26-11
1.00 02	0.	0.	0.	0.	1.03-11	0.	1.97-09	5.85-11
1.20 02	0.	0.	0.	0.	0.	0.	3.59-10	3.13-10
1.40 02	0.	0.	0.	0.	0.	7.21-12	6.88-10	2.68-10
1.60 02	0.	0.	0.	0.	0.	0.	3.50-10	5.74-10
1.80 02	0.	0.	0.	0.	2.80-10	0.	8.15-10	1.54-10
	0.	0.	0.	0.	1.87-11	4.35-12	2.16-09	2.28-09
	0.	0.	0.	0.	1.70-11	3.02-12	6.23-10	1.44-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	6.71-10	2.00-10
4.00 01	0.	0.	0.	0.	0.	0.	4.10-09	1.56-10
6.00 01	0.	0.	0.	0.	0.	0.	2.50-10	1.53-09
8.00 01	0.	0.	0.	0.	0.	4.87-11	1.90-10	8.70-10
9.00 01	0.	0.	0.	0.	0.	0.	4.25-12	1.11-08
1.00 02	0.	0.	0.	0.	0.	0.	4.17-11	6.02-09
1.20 02	0.	0.	0.	0.	0.	0.	1.35-12	1.09-09
1.40 02	0.	0.	0.	0.	0.	0.	1.03-11	2.57-10
1.60 02	0.	0.	0.	0.	0.	0.	1.62-10	6.83-10
1.80 02	0.	0.	0.	0.	0.	0.	9.70-10	1.25-10
	0.	0.	0.	0.	0.	1.59-11	9.78-10	4.25-09
	0.	0.	0.	0.	0.	1.59-11	5.84-10	2.05-09

0077522026 41 223127267575

AIR SCATTERING 5.32 02 ENERGY 1.00 ANGLE 9.00 01 DIST. 3.05 02
5.50 01 1.73 03 0. 0. 5.55 04 5.00 01 1.80 03

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	6.25-08
0.	0.	0.	0.	0.	0.	0.	2.12-08
0.	0.	0.	0.	0.	0.	0.	1.23-08
0.	0.	0.	0.	0.	0.	0.	9.05-09
0.	0.	0.	0.	0.	0.	0.	4.02-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							1.44-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
9.29-10	1.01-09	5.29-10	2.50-11	1.84-14	3.38-16	3.87-39	4.06-08	1.03-08
1.97-09	1.38-10	7.45-11	3.59-11	1.17-13	3.21-20	1.29-31	1.37-08	2.95-09
1.15-09	2.40-10	5.92-09	6.50-11	2.73-13	1.59-18	9.13-29	8.94-09	1.51-09
2.08-09	5.29-10	2.75-10	4.43-10	1.99-12	4.27-17	1.03-25	6.78-09	6.87-10
4.84-10	1.25-09	3.38-09	2.23-10	7.24-12	2.56-14	4.18-25	5.08-09	1.44-09
5.19-10	3.84-10	9.13-10	2.82-10	4.25-12	1.54-15	4.06-27	6.53-10	1.32-10
1.08-09	9.48-10	4.96-10	1.58-10	3.56-12	1.92-16	7.01-25	3.14-10	5.83-11
6.62-10	6.93-10	9.56-10	9.13-11	6.90-12	2.26-17	3.85-25	2.14-10	5.93-11
6.57-10	1.97-10	1.11-10	3.48-11	2.13-12	5.07-16	2.32-23	1.30-10	3.60-11
6.61-11	7.89-11	3.37-10	6.66-10	7.47-13	5.21-15	1.06-22	2.15-11	7.80-12
2.20-09	1.14-09	2.91-09	3.79-10	6.15-12	5.23-15	1.08-23		
5.33-10	2.77-10	1.61-09	1.19-10	1.82-12	3.81-15	7.57-24	1.06-08	1.00-09

PHI 45 TO 90 DEGREES

9.24-11	2.41-10	4.33-09	4.99-10	3.42-13	2.19-16	4.14-23	1.93-10	8.08-11
3.20-09	1.66-09	3.74-10	3.57-12	9.65-13	5.41-16	1.73-27	4.60-10	2.66-10
1.55-09	4.14-10	1.65-10	7.93-11	1.03-11	1.62-16	1.39-22	3.08-10	1.11-10
8.60-10	8.84-10	1.55-10	9.70-11	3.43-10	3.51-16	8.19-23	2.10-10	7.22-11
5.28-10	4.92-10	1.94-10	2.68-11	3.91-11	4.50-16	2.37-23	2.13-10	8.86-11
5.24-10	1.52-10	1.73-10	1.41-10	9.35-13	1.04-18	7.69-29	1.75-10	6.84-11
1.02-09	8.44-10	2.12-10	1.31-10	1.26-13	1.57-15	1.47-29	1.41-10	3.35-11
1.17-09	4.92-10	8.07-10	1.66-11	9.40-13	9.32-17	8.63-26	1.95-10	9.45-11
4.54-10	8.80-10	1.03-09	3.79-11	5.47-13	6.23-16	8.56-25	1.20-10	6.99-11
3.36-10	6.58-10	4.92-10	2.90-11	4.26-13	1.93-16	9.34-36	2.70-11	9.15-12
2.18-09	1.41-09	9.77-10	1.68-10	1.22-10	9.99-16	7.04-23		
5.27-10	4.14-10	3.23-10	5.32-11	1.07-10	4.17-16	4.78-23	4.30-10	7.07-11

PHI 90 TO 135 DEGREES

8.00-11	4.93-10	1.07-10	3.19-11	2.75-15	8.10-16	1.04-20	1.37-10	9.15-11
1.26-10	1.09-09	2.89-10	1.47-11	6.44-13	6.05-15	7.79-27	1.21-10	7.44-11
2.06-09	9.58-10	6.69-10	4.83-11	4.75-14	6.73-16	4.03-23	3.44-10	2.37-10
1.37-09	1.53-09	5.13-10	3.65-11	9.73-13	1.21-16	4.63-24	1.35-10	3.82-11
1.63-10	9.54-10	1.23-10	3.00-11	1.18-12	1.48-16	1.72-25	4.54-11	1.66-11
9.08-11	6.20-10	1.97-10	4.71-11	8.03-12	5.78-17	2.64-27	9.60-11	7.16-11
2.10-09	4.95-10	1.28-09	7.27-10	9.16-12	2.37-17	6.76-27	1.04-10	4.13-11
5.47-10	2.11-10	6.42-10	4.78-11	2.29-12	5.35-16	6.18-25	6.19-11	2.66-11
6.85-10	5.08-10	1.44-09	2.20-11	2.23-13	5.26-15	2.85-26	7.57-11	2.33-11
7.10-11	8.09-10	1.02-10	4.34-11	4.13-15	1.29-18	4.73-28	7.86-11	3.43-11
2.02-09	1.54-09	1.30-09	2.99-10	5.68-12	2.42-15	6.41-22		
7.02-10	4.74-10	4.35-10	1.74-10	3.47-12	1.59-15	6.29-22	2.58-10	6.99-11

PHI 135 TO 180 DEGREES

2.01-10	4.03-10	4.83-10	1.12-10	1.44-15	2.49-22	8.41-24	5.15-11	2.14-11
1.40-10	2.00-10	2.46-10	2.36-11	1.90-11	3.27-18	6.29-25	1.79-10	1.33-10
2.39-10	5.48-10	1.81-10	3.85-11	3.84-11	1.73-14	1.93-23	7.91-11	3.72-11
1.39-09	8.47-10	2.81-10	2.61-11	5.76-13	4.50-17	3.24-21	9.07-11	3.90-11
1.71-10	5.64-11	4.94-11	1.62-09	6.45-12	1.03-16	5.45-29	3.98-10	3.45-10
1.40-10	1.01-10	1.71-10	9.06-12	3.16-14	4.83-15	3.31-26	2.13-10	1.93-10
3.21-10	1.15-10	1.63-09	2.05-11	1.06-13	2.52-16	2.63-26	6.67-11	2.40-11
3.65-10	3.52-10	8.45-10	1.00-11	2.85-13	2.60-16	7.63-27	3.38-11	1.05-11
2.77-10	1.08-10	2.61-10	7.30-12	1.45-12	1.70-17	2.24-32	4.15-11	1.82-11
1.77-10	3.81-09	2.13-11	2.93-12	6.70-14	2.03-16	5.03-30	1.05-10	6.09-11
8.69-10	8.88-10	1.05-09	3.24-10	1.52-11	5.64-15	1.06-21		
4.01-10	2.99-10	6.04-10	2.77-10	1.33-11	4.65-15	1.06-21	2.35-10	7.81-11
							1.81-08	1.64-09

AIR SCATTERING 5.33 02 ENERGY 1.00 ANGLE 1.35 02 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	0.	0.	8.67-07	0.	0.	0.
4.00 01	0.	0.	0.	0.	3.28-08	4.26-07	0.	0.
6.00 01	0.	0.	0.	0.	0.	2.83-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	5.80-08	8.16-08	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	0.	0.	5.52-07	1.06-09	4.89-10	4.14-10
4.00 01	0.	0.	0.	0.	2.09-08	2.83-07	1.93-09	3.44-09
6.00 01	0.	0.	0.	0.	2.38-11	3.33-08	9.34-10	2.89-09
8.00 01	0.	0.	0.	0.	2.52-11	2.20-09	1.01-09	1.18-09
9.00 01	0.	0.	0.	0.	0.	1.52-09	9.94-10	9.42-10
1.00 02	0.	0.	0.	0.	0.	2.02-10	1.07-10	9.10-10
1.20 02	0.	0.	0.	0.	0.	3.53-12	4.30-10	4.96-10
1.40 02	0.	0.	0.	0.	0.	2.33-13	2.07-09	1.57-10
1.60 02	0.	0.	0.	0.	0.	7.08-10	9.96-11	7.23-11
1.80 02	0.	0.	0.	0.	0.	0.	2.75-10	3.52-11
	0.	0.	0.	0.	3.69-08	5.92-08	1.86-09	2.32-09
	0.	0.	0.	0.	6.06-09	4.41-09	3.82-10	4.26-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	3.14-10	6.77-10	7.83-09
4.00 01	0.	0.	0.	0.	0.	1.78-09	1.38-09	5.69-10
6.00 01	0.	0.	0.	0.	4.42-14	5.58-10	9.06-10	1.90-09
8.00 01	0.	0.	0.	0.	0.	9.34-11	9.14-10	3.64-10
9.00 01	0.	0.	0.	0.	1.05-13	3.20-11	4.80-10	2.35-10
1.00 02	0.	0.	0.	0.	0.	7.00-11	2.89-09	2.37-10
1.20 02	0.	0.	0.	0.	0.	0.	8.52-10	1.83-10
1.40 02	0.	0.	0.	0.	0.	2.43-11	7.13-10	6.92-10
1.60 02	0.	0.	0.	0.	0.	2.68-11	1.26-08	2.56-10
1.80 02	0.	0.	0.	0.	0.	0.	2.43-10	7.23-12
	0.	0.	0.	0.	2.99-14	5.35-10	4.08-09	1.57-09
	0.	0.	0.	0.	2.16-14	1.19-10	2.07-09	4.67-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.72-10	2.38-08	3.18-09
4.00 01	0.	0.	0.	0.	0.	8.26-10	2.75-09	5.05-10
6.00 01	0.	0.	0.	0.	0.	1.92-11	1.38-09	3.12-10
8.00 01	0.	0.	0.	0.	0.	5.26-14	5.86-10	6.52-10
9.00 01	0.	0.	0.	0.	0.	4.54-11	7.46-09	3.55-09
1.00 02	0.	0.	0.	0.	0.	2.34-10	2.06-10	3.38-09
1.20 02	0.	0.	0.	0.	0.	0.	1.32-09	5.36-09
1.40 02	0.	0.	0.	0.	0.	1.19-12	2.75-09	1.79-09
1.60 02	0.	0.	0.	0.	0.	0.	4.29-09	2.57-09
1.80 02	0.	0.	0.	0.	0.	0.	2.73-11	6.73-10
	0.	0.	0.	0.	0.	2.08-10	5.71-09	4.49-09
	0.	0.	0.	0.	0.	8.78-11	2.03-09	1.69-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.06-09	1.32-08	3.60-09
4.00 01	0.	0.	0.	0.	0.	1.19-11	3.57-09	1.72-09
6.00 01	0.	0.	0.	0.	0.	1.12-14	4.44-10	8.53-10
8.00 01	0.	0.	0.	0.	0.	2.89-13	6.85-10	6.83-10
9.00 01	0.	0.	0.	0.	0.	0.	2.02-09	1.16-08
1.00 02	0.	0.	0.	0.	0.	1.55-11	6.14-11	8.48-09
1.20 02	0.	0.	0.	0.	0.	0.	1.14-08	6.28-10
1.40 02	0.	0.	0.	0.	0.	0.	6.17-11	5.12-09
1.60 02	0.	0.	0.	0.	0.	2.16-12	1.55-11	1.04-09
1.80 02	0.	0.	0.	0.	0.	0.	1.48-12	9.98-10
	0.	0.	0.	0.	0.	6.94-11	5.85-09	6.26-09
	0.	0.	0.	0.	0.	5.79-11	3.79-09	2.12-09

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AIR SCATTERING 5.33 02 ENERGY 1.00 ANGLE 1.35 02 DIST. 3.05 02
5.20 01 7.05 02 0. 0. 5.56 04 5.00 01 1.80 03

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
0.	0.	0.	0.	0.	0.	0.	7.80-08	
0.	0.	0.	0.	0.	0.	0.	2.43-08	
0.	0.	0.	0.	0.	0.	0.	1.42-09	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							9.30-09	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
1.71-10	3.29-10	1.08-10	1.55-10	1.28-12	8.96-20	3.00-24	4.98-08	8.83-09
9.96-10	2.77-09	3.67-10	5.08-11	6.09-13	4.77-18	2.67-27	1.63-08	1.37-09
7.09-10	4.78-10	2.92-10	1.11-10	2.63-12	9.60-16	5.12-30	1.83-09	1.84-10
8.63-10	8.48-10	1.10-10	3.37-10	5.40-11	5.45-18	2.76-24	2.32-10	3.25-11
6.91-10	4.97-10	4.33-10	3.19-10	9.43-13	7.91-17	1.96-24	1.81-10	6.35-11
8.28-10	4.23-10	2.07-10	3.62-11	1.17-11	7.87-16	1.22-26	7.52-11	1.97-11
3.75-09	7.30-10	3.01-10	1.30-10	1.15-13	5.42-15	4.43-25	1.44-10	6.99-11
3.03-10	7.28-10	1.76-09	2.55-11	2.34-13	2.49-19	2.78-29	1.28-10	5.23-11
1.48-10	6.50-10	1.51-10	1.18-11	2.08-11	1.87-18	4.73-23	5.74-11	3.66-11
1.95-09	1.75-10	6.17-11	9.87-12	1.41-12	7.93-16	1.33-21	6.44-11	4.63-11
2.37-09	1.62-09	8.93-10	2.71-10	2.45-11	2.23-15	9.00-23		
8.72-10	4.97-10	3.73-10	1.02-10	1.59-11	1.76-15	8.84-23	6.53-09	5.81-10

PHI 45 TO 90 DEGREES

1.15-10	6.00-10	2.55-09	6.22-10	4.59-13	1.13-16	4.27-28	3.57-10	2.32-10
1.01-09	3.65-10	4.66-09	1.81-10	5.62-12	3.44-15	1.26-24	2.52-10	6.55-11
8.63-10	5.75-10	8.83-10	1.23-10	3.17-11	6.32-17	6.93-22	1.71-10	3.09-11
9.13-10	1.10-09	2.09-10	1.58-10	1.17-12	1.91-17	6.64-25	9.69-11	1.77-11
1.16-08	1.60-09	4.81-10	2.31-11	1.51-11	5.50-17	1.95-28	3.48-10	2.47-10
4.72-10	3.24-10	4.84-10	1.45-11	2.09-12	2.70-16	1.88-25	1.50-10	8.11-11
5.48-10	7.38-10	1.97-10	4.69-11	2.89-12	4.36-16	4.60-26	6.79-11	1.79-11
1.12-09	6.76-10	2.97-10	2.39-11	6.61-12	2.05-16	7.99-28	9.51-11	2.37-11
1.98-09	5.90-10	1.34-10	4.06-11	1.22-12	4.96-18	3.45-27	5.75-10	4.71-10
3.68-11	6.27-10	4.35-10	3.86-11	1.51-11	4.21-16	1.39-28	2.59-11	1.09-11
3.62-09	1.51-09	1.63-09	1.91-10	1.66-11	9.07-16	1.85-22		
1.75-09	3.19-10	9.15-10	5.77-11	8.74-12	5.76-16	1.84-22	3.78-10	9.69-11

PHI 90 TO 135 DEGREES

2.14-09	5.30-10	5.31-10	1.15-10	2.77-12	1.38-15	1.66-28	1.14-09	8.79-10
2.09-10	2.24-10	1.47-10	4.16-11	1.16-11	1.91-14	3.04-28	1.81-10	5.42-11
4.70-10	6.47-10	1.58-10	1.73-10	3.49-13	3.43-18	3.15-22	9.17-11	2.67-11
7.20-10	4.41-10	2.00-10	4.19-11	2.53-12	1.74-16	8.60-26	7.30-11	2.12-11
3.49-10	1.24-09	1.96-10	1.13-10	1.38-12	4.40-16	2.72-24	4.52-10	2.96-10
3.09-10	1.20-09	5.14-10	2.06-11	1.48-12	3.92-16	3.47-23	1.67-10	9.11-11
3.70-10	4.33-10	2.92-10	1.80-11	2.74-12	2.88-15	2.78-24	2.54-10	1.41-10
1.61-09	3.15-09	2.33-10	5.32-11	1.47-12	5.85-17	4.15-29	2.62-10	1.03-10
1.03-10	2.05-10	1.50-10	1.83-11	7.95-13	5.38-15	2.28-25	2.67-10	1.72-10
9.19-11	1.96-10	1.79-10	1.53-10	1.42-14	1.09-15	3.22-39	3.27-11	1.51-11
1.22-09	1.84-09	4.82-10	1.29-10	5.02-12	5.55-15	9.13-23		
3.18-10	8.48-10	9.22-11	3.30-11	2.41-12	3.55-15	8.39-23	4.57-10	1.05-10

PHI 135 TO 180 DEGREES

6.01-09	1.42-10	3.41-11	1.09-11	2.31-13	3.27-16	2.98-23	8.55-10	4.95-10
4.99-10	1.83-10	9.96-11	3.43-11	1.54-13	3.84-17	5.06-25	2.19-10	7.18-11
4.81-10	6.17-10	1.58-10	4.91-11	1.34-12	2.88-16	2.61-26	7.04-11	2.05-11
2.16-10	2.46-10	3.76-10	5.86-11	4.35-12	4.44-17	1.68-24	6.48-11	1.72-11
5.51-10	6.27-10	3.30-10	3.12-11	1.00-11	1.47-16	4.98-25	5.02-10	2.50-10
7.68-10	3.23-10	7.62-10	4.72-10	4.46-14	6.41-17	8.57-25	3.29-10	2.43-10
1.00-09	1.03-09	1.76-10	7.28-11	3.18-13	1.74-16	5.53-25	5.19-10	4.54-10
1.04-09	4.54-10	7.47-11	8.17-11	5.85-12	2.91-16	6.83-26	2.11-10	1.49-10
3.39-10	4.84-11	6.81-11	2.48-11	9.00-12	4.48-18	1.44-26	4.63-11	3.25-11
2.43-10	2.41-10	9.44-12	3.82-11	9.79-14	8.61-20	3.20-32	4.41-11	2.36-11
1.56-09	9.31-10	4.63-10	1.78-10	6.80-12	2.89-16	2.88-24		
4.34-10	2.80-10	1.29-10	6.94-11	2.46-12	9.65-17	1.90-24	5.10-10	2.00-10
							1.24-08	1.07-09

AIR SCATTERING 5.34 02 ENERGY 1.00 ANGLE 1.80 02 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	0.	0.	0.	2.72-06	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	1.64-07	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	0.	0.	1.41-10	1.74-06	6.83-10	1.20-09
4.00 01	0.	0.	0.	0.	1.19-10	1.90-08	2.51-09	1.27-09
6.00 01	0.	0.	0.	0.	0.	4.74-10	1.85-09	4.76-10
8.00 01	0.	0.	0.	0.	0.	2.01-11	4.92-09	6.78-10
9.00 01	0.	0.	0.	0.	0.	0.	6.09-10	3.20-10
1.00 02	0.	0.	0.	0.	0.	0.	6.66-09	3.85-10
1.20 02	0.	0.	0.	0.	0.	0.	3.57-10	1.96-10
1.40 02	0.	0.	0.	0.	0.	0.	1.99-09	1.01-09
1.60 02	0.	0.	0.	0.	0.	0.	3.05-11	7.11-10
1.80 02	0.	0.	0.	0.	0.	0.	6.20-11	1.55-10
	0.	0.	0.	0.	2.92-11	1.08-07	4.50-09	1.23-09
	0.	0.	0.	0.	2.17-11	1.10-08	1.60-09	2.75-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	1.57-11	1.19-08	1.12-09	5.57-10
4.00 01	0.	0.	0.	0.	1.29-13	9.71-09	3.98-10	2.00-09
6.00 01	0.	0.	0.	0.	0.	1.13-09	3.86-09	9.26-10
8.00 01	0.	0.	0.	0.	0.	1.75-11	5.78-09	3.77-10
9.00 01	0.	0.	0.	0.	0.	0.	1.06-09	5.93-10
1.00 02	0.	0.	0.	0.	0.	0.	2.39-09	2.01-09
1.20 02	0.	0.	0.	0.	0.	0.	9.48-10	9.41-10
1.40 02	0.	0.	0.	0.	0.	0.	6.20-10	1.69-10
1.60 02	0.	0.	0.	0.	0.	0.	1.14-12	1.19-09
1.80 02	0.	0.	0.	0.	0.	0.	0.	8.56-10
	0.	0.	0.	0.	9.66-13	2.71-09	4.12-09	1.81-09
	0.	0.	0.	0.	7.73-13	6.14-10	1.30-09	3.42-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	1.19-10	9.60-08	5.73-10	6.43-10
4.00 01	0.	0.	0.	0.	1.53-10	5.17-09	2.54-09	1.41-09
6.00 01	0.	0.	0.	0.	5.08-12	6.63-09	4.92-09	6.39-10
8.00 01	0.	0.	0.	0.	0.	1.85-11	1.18-09	4.42-10
9.00 01	0.	0.	0.	0.	1.29-10	0.	1.70-09	6.34-10
1.00 02	0.	0.	0.	0.	0.	1.53-13	1.53-09	4.46-09
1.20 02	0.	0.	0.	0.	0.	6.60-12	3.06-10	2.65-09
1.40 02	0.	0.	0.	0.	0.	4.97-12	5.91-11	1.28-09
1.60 02	0.	0.	0.	0.	0.	0.	5.58-11	2.29-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	9.43-11
	0.	0.	0.	0.	5.76-11	8.46-09	2.85-09	2.73-09
	0.	0.	0.	0.	3.21-11	3.42-09	9.84-10	1.08-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	3.14-12	1.63-08	2.11-08	1.73-09
4.00 01	0.	0.	0.	0.	8.00-13	4.51-09	5.66-10	8.78-10
6.00 01	0.	0.	0.	0.	0.	4.75-09	8.33-10	5.72-10
8.00 01	0.	0.	0.	0.	1.78-13	1.69-11	2.20-09	4.95-10
9.00 01	0.	0.	0.	0.	0.	8.01-11	3.25-10	1.18-10
1.00 02	0.	0.	0.	0.	0.	2.19-11	2.97-10	2.71-10
1.20 02	0.	0.	0.	0.	0.	1.78-11	1.42-09	3.98-10
1.40 02	0.	0.	0.	0.	0.	2.66-11	2.38-11	6.81-10
1.60 02	0.	0.	0.	0.	0.	2.13-10	8.04-11	7.54-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.54-09
	0.	0.	0.	0.	3.86-13	3.10-09	2.90-09	1.17-09
	0.	0.	0.	0.	2.40-13	9.33-10	1.25-09	2.15-10

272226362405 011454142741

AIR SCATTERING 5.34 02 ENERGY 1.00 ANGLE 1.80 02 DIST. 3.05 02
5.20 01 1.74 03 0. 0. 5.55 04 5.00 01 1.80 03

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	1.36-07
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							8.19-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
3.54-10	9.47-10	9.75-10	2.34-11	1.10-11	4.03-19	1.49-26	8.71-08	8.50-09
8.33-10	5.27-10	4.46-10	2.64-11	5.60-12	1.93-16	4.06-23	1.14-09	8.71-10
2.43-10	6.66-10	2.32-10	2.79-11	5.32-12	1.55-16	3.81-25	1.35-10	3.31-11
1.09-09	9.67-10	9.44-10	1.22-10	9.84-12	2.00-16	4.74-22	2.75-10	1.65-10
5.77-10	4.74-10	8.69-10	2.84-10	1.52-13	9.50-18	2.63-25	6.97-11	2.36-11
4.72-10	9.88-10	4.91-10	1.29-10	3.10-12	6.37-17	1.34-26	3.13-10	1.51-10
3.48-10	1.06-10	2.14-09	2.53-10	9.14-12	3.49-15	9.04-23	5.93-11	1.73-11
1.21-10	2.12-10	2.64-10	3.37-09	1.49-12	3.89-14	5.60-24	1.54-10	9.16-11
8.88-09	7.58-10	4.80-11	8.58-11	4.14-13	4.78-15	7.23-23	2.60-10	2.20-10
5.84-12	8.59-12	7.81-11	2.16-11	3.44-12	7.15-17	1.54-25	9.17-12	5.12-12
2.46-09	1.12-09	1.52-09	1.12-09	1.05-11	1.25-14	2.05-22		
1.53-09	4.06-10	5.15-10	8.64-10	4.48-12	1.11-14	1.58-22	5.75-09	5.65-10

PHI 45 TO 90 DEGREES

5.91-09	2.81-10	9.12-10	1.72-11	5.90-12	2.19-18	4.41-26	8.23-10	2.27-10
8.77-10	5.96-10	2.63-10	3.69-11	6.04-12	2.10-16	4.50-26	6.04-10	1.49-10
3.72-10	9.87-10	3.07-10	1.06-10	2.12-12	3.91-17	3.29-28	2.71-10	1.13-10
9.30-10	5.95-10	3.49-10	1.39-10	1.78-12	1.32-16	9.36-30	2.82-10	1.29-10
1.30-09	3.31-09	1.07-09	1.52-10	2.14-09	6.94-18	1.52-25	1.72-10	5.04-11
3.08-09	6.09-10	1.36-09	1.31-10	4.52-11	5.75-17	4.82-27	2.68-10	9.66-11
6.96-09	3.56-09	3.47-10	1.80-10	4.15-11	5.63-18	1.06-24	3.03-10	2.14-10
2.93-10	4.07-10	1.46-10	5.04-11	2.14-09	1.65-16	2.01-28	5.90-11	1.88-11
9.95-11	3.04-10	1.21-09	5.17-10	1.65-10	3.51-15	1.20-24	6.78-11	2.92-11
3.38-10	3.76-10	2.74-11	1.07-10	5.26-13	2.05-17	2.53-29	4.45-11	1.80-11
4.06-09	2.60-09	1.08-09	2.98-10	9.93-10	7.57-16	5.92-25		
2.13-09	1.24-09	3.78-10	8.94-11	6.99-10	3.94-16	3.73-25	5.24-10	9.81-11

PHI 90 TO 135 DEGREES

3.74-10	2.12-10	1.15-10	8.25-11	1.60-12	3.79-17	4.19-31	4.87-09	2.51-09
3.38-10	1.32-09	1.35-10	4.45-11	3.58-12	1.96-17	2.27-24	4.52-10	1.57-10
7.68-10	3.47-10	2.66-09	7.42-10	3.52-11	5.83-18	4.56-28	6.14-10	3.19-10
8.08-10	1.95-10	1.89-10	7.29-11	2.78-12	8.52-17	2.22-29	8.91-11	1.80-11
6.78-10	1.86-09	1.04-09	3.57-11	6.04-12	7.98-18	9.11-29	1.59-10	5.52-11
4.35-09	9.02-10	1.94-10	1.03-11	5.65-11	3.68-16	3.75-21	3.38-10	2.78-10
6.99-10	3.71-10	1.83-10	1.19-10	1.93-13	1.81-16	4.27-23	1.29-10	7.86-11
5.73-10	2.43-10	1.32-09	1.13-10	4.04-13	4.48-19	8.08-27	8.10-11	3.33-11
3.65-10	5.70-10	3.28-10	1.10-10	1.46-11	5.85-16	5.16-24	3.27-11	9.88-12
1.02-10	1.42-10	8.18-10	1.25-10	5.93-13	5.93-15	4.36-26	1.88-11	6.30-12
1.87-09	1.17-09	1.53-09	3.38-10	2.46-11	6.19-16	6.66-22		
7.16-10	4.89-10	5.69-10	1.74-10	1.19-11	3.86-16	6.65-22	7.21-10	1.85-10

PHI 135 TO 180 DEGREES

9.51-10	4.78-10	8.81-10	9.70-11	3.51-12	8.50-18	0.	1.76-09	8.00-10
3.64-09	7.87-10	5.88-10	1.79-10	1.58-13	2.48-15	5.57-26	3.90-10	1.05-10
3.61-10	4.49-10	7.26-10	2.49-11	6.51-13	7.33-16	2.52-23	3.15-10	1.60-10
1.01-09	3.09-10	1.07-09	1.71-10	6.29-13	2.11-15	4.48-27	1.50-10	5.51-11
9.73-11	2.50-10	2.84-10	4.28-10	1.47-10	7.98-16	5.97-28	3.53-11	9.53-12
5.34-10	2.12-10	1.08-09	7.50-11	2.16-13	5.43-17	4.54-20	5.24-11	1.80-11
5.50-09	3.13-10	1.47-10	9.64-11	1.43-12	2.70-16	4.55-21	2.16-10	1.31-10
1.08-10	1.53-09	4.73-10	7.17-11	8.42-12	1.84-16	2.15-23	5.74-11	2.71-11
9.73-11	4.83-11	1.17-10	1.19-10	2.05-12	3.62-17	9.91-25	4.51-11	1.69-11
1.21-10	1.52-10	2.34-11	1.14-11	7.13-13	1.64-16	4.24-28	5.79-11	4.01-11
3.07-09	9.92-10	1.13-09	2.59-10	2.92-11	1.62-15	9.37-21		
1.72-09	3.43-10	4.05-10	1.07-10	2.47-11	8.90-16	9.29-21	4.19-10	8.41-11
							1.16-08	1.07-09

AIR SCATTERING 5.35 02 ENERGY 6.00-01 ANGLE 1.00 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	1.69-04	0.	0.	0.	0.	0.	0.	0.
4.00 01	6.70-05	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	3.67-05	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	4.59-05	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	3.79-05	0.	0.	0.
1.80 02	0.	0.	0.	0.	8.14-05	0.	0.	0.
	2.18-05	0.	1.20-05	1.22-05	1.15-05	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	1.08-04	0.	0.	0.	0.	3.96-06	5.59-08	1.56-09
4.00 01	4.26-05	0.	0.	0.	0.	0.	1.56-09	6.82-10
6.00 01	0.	0.	0.	0.	0.	5.37-11	1.62-08	2.82-10
8.00 01	0.	0.	2.33-05	0.	0.	2.51-08	2.40-09	4.80-10
9.00 01	0.	0.	0.	0.	0.	9.13-10	1.37-09	2.39-10
1.00 02	0.	0.	0.	0.	0.	1.81-09	7.54-10	6.74-09
1.20 02	0.	0.	0.	0.	3.62-10	1.45-05	1.43-09	1.14-09
1.40 02	0.	0.	0.	2.92-05	2.45-09	1.48-08	1.02-08	1.04-09
1.60 02	0.	0.	0.	0.	2.41-05	2.68-09	3.18-09	8.53-10
1.80 02	0.	0.	5.33-13	4.68-10	5.19-05	1.29-09	2.90-09	9.78-10
	1.39-05	0.	7.62-06	7.78-06	7.32-06	5.00-06	1.30-08	2.51-09
	5.84-06	0.	7.62-06	7.77-06	3.31-06	4.74-06	4.75-09	1.06-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	3.17-09	1.53-09
4.00 01	0.	0.	0.	0.	0.	0.	1.27-09	7.21-10
6.00 01	0.	0.	0.	0.	0.	2.79-10	1.98-09	1.03-10
8.00 01	0.	0.	0.	0.	0.	8.03-10	1.48-08	6.46-10
9.00 01	0.	0.	0.	0.	0.	2.23-10	1.21-09	2.08-09
1.00 02	0.	0.	0.	0.	0.	1.81-09	2.94-10	1.30-09
1.20 02	0.	0.	0.	0.	1.49-10	3.77-09	1.90-09	1.35-09
1.40 02	0.	0.	0.	4.08-11	1.06-08	6.45-09	2.86-09	1.67-09
1.60 02	0.	0.	2.00-11	7.70-12	1.93-08	3.41-09	1.16-09	3.16-09
1.80 02	0.	0.	2.83-11	5.26-11	3.78-08	1.70-09	1.75-09	1.63-09
	0.	0.	5.17-12	1.54-11	8.52-09	4.33-09	7.71-09	2.57-09
	0.	0.	3.69-12	1.12-11	3.28-09	1.38-09	3.70-09	5.28-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.13-08	1.61-10
4.00 01	0.	0.	0.	0.	0.	2.67-11	2.90-09	1.81-08
6.00 01	0.	0.	0.	0.	0.	1.41-09	2.27-09	2.20-10
8.00 01	0.	0.	0.	0.	0.	4.72-10	4.67-09	2.34-09
9.00 01	0.	0.	0.	0.	0.	4.72-09	1.04-09	1.35-09
1.00 02	0.	0.	0.	0.	5.93-12	4.07-09	1.82-10	9.62-10
1.20 02	0.	0.	0.	0.	2.52-09	3.04-09	6.21-09	1.70-09
1.40 02	0.	0.	2.81-11	1.67-10	1.39-09	5.20-09	8.60-10	8.85-10
1.60 02	0.	0.	7.18-12	1.92-11	1.37-08	1.36-09	7.52-10	1.74-09
1.80 02	0.	0.	2.98-10	7.39-11	2.66-08	1.17-09	1.67-09	1.49-09
	0.	0.	2.67-11	5.23-11	5.18-09	4.74-09	6.01-09	5.56-09
	0.	0.	1.57-11	3.44-11	1.40-09	9.32-10	1.74-09	3.14-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.95-09	1.72-10
4.00 01	0.	0.	0.	0.	0.	3.17-10	2.65-09	1.42-10
6.00 01	0.	0.	0.	0.	1.54-10	2.52-10	1.05-09	2.19-09
8.00 01	0.	0.	0.	0.	7.24-11	5.38-10	3.82-09	2.84-10
9.00 01	0.	0.	0.	0.	6.62-13	1.63-09	9.30-09	7.57-10
1.00 02	0.	0.	0.	8.82-13	0.	2.86-09	6.78-10	2.96-10
1.20 02	0.	0.	1.10-11	1.68-13	3.91-09	3.21-09	4.33-09	1.62-09
1.40 02	0.	0.	0.	2.42-11	2.93-08	1.34-08	1.07-09	2.20-09
1.60 02	0.	0.	6.57-11	1.55-10	1.83-09	1.92-09	4.02-09	1.67-09
1.80 02	0.	0.	1.39-10	3.11-10	6.20-08	1.32-09	1.16-08	4.66-09
	0.	0.	2.34-11	5.24-11	1.32-08	6.10-09	6.93-09	2.58-09
	0.	0.	1.06-11	2.77-11	7.96-09	2.57-09	2.50-09	6.55-10

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AIR SCATTERING 5.35 02 ENERGY 6.00-01 ANGLE 1.00 DIST. 3.05 02
5.80 01 1.72 03 0. 0. 5.70 04 5.00 01 1.80 03

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	2.54-05
0.	0.	0.	0.	0.	0.	0.	1.00-05
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	3.67-06
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	2.30-06
0.	0.	0.	0.	0.	0.	0.	1.89-06
0.	0.	0.	0.	0.	0.	0.	4.07-06
0.	0.	0.	0.	0.	0.	0.	5.66-06

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
1.89-10	4.81-10	2.17-10	3.52-12	1.75-15	7.25-21	7.27-31	1.63-05	5.43-06
1.42-10	6.82-10	2.07-10	3.55-12	8.93-14	5.95-19	1.99-32	6.40-06	4.68-06
9.08-10	3.40-10	1.32-10	4.10-11	6.30-13	2.52-17	2.41-23	5.15-10	2.52-10
9.01-10	2.59-10	1.18-10	1.19-11	2.35-11	1.71-15	7.23-26	2.34-06	2.33-06
6.46-10	3.07-10	6.72-10	3.37-10	1.16-11	1.80-17	8.20-26	9.84-11	2.89-11
3.05-10	4.65-10	8.31-11	1.93-11	6.81-13	9.93-17	2.86-24	2.24-10	1.24-10
2.25-09	6.77-10	5.93-10	4.34-11	4.05-13	5.80-17	1.55-24	4.36-07	4.35-07
6.38-10	5.91-10	3.39-10	3.17-11	4.60-13	4.90-15	1.05-25	1.46-06	1.46-06
7.75-10	6.30-10	3.14-10	9.89-12	6.22-13	3.64-15	1.93-26	1.21-06	9.08-07
6.65-10	4.56-10	7.38-10	6.61-12	1.79-12	3.40-14	1.20-27	2.59-05	8.28-07
1.87-09	9.72-10	6.36-10	1.02-10	1.05-11	4.59-13	7.49-24		
5.22-10	1.58-10	1.70-10	4.73-11	9.66-12	2.56-15	6.42-24	3.75-06	1.29-06

PHI 45 TO 90 DEGREES

3.68-11	3.08-11	7.01-11	4.77-11	1.77-13	4.69-19	7.20-28	1.28-10	4.89-11
4.72-10	1.22-10	3.65-10	4.03-13	7.01-13	7.00-17	4.22-24	6.69-11	2.30-11
6.80-10	6.97-11	1.88-10	1.93-11	2.11-12	1.01-16	1.34-28	8.61-11	3.52-11
3.12-10	9.99-11	5.88-09	1.04-10	8.58-13	7.18-16	1.76-26	5.47-10	3.36-10
6.67-10	9.86-10	6.47-11	2.58-11	6.51-12	1.06-15	6.01-26	1.08-10	3.32-11
4.97-10	4.86-10	2.36-10	2.71-11	1.32-13	5.33-17	2.62-28	1.07-10	2.83-11
1.48-09	2.33-09	1.43-09	4.65-11	1.11-12	2.21-17	1.02-21	2.72-10	8.47-11
1.38-09	8.76-10	2.47-10	4.00-11	2.72-12	2.24-17	6.30-23	8.86-10	5.17-10
6.84-10	1.27-09	5.56-10	2.80-11	8.40-14	1.33-16	1.96-27	1.20-09	5.28-10
1.88-09	2.52-10	2.63-10	8.75-11	4.95-15	2.55-18	4.17-27	2.07-09	5.81-10
1.65-09	1.56-09	2.73-09	8.73-11	3.23-12	5.02-16	3.50-22		
2.74-10	6.38-10	1.75-09	2.74-11	1.08-12	2.95-16	3.31-22	9.17-10	2.04-10

PHI 90 TO 135 DEGREES

6.02-10	1.67-11	8.41-12	8.75-15	6.00-15	1.02-18	2.71-27	3.54-10	1.91-10
8.76-10	2.14-09	9.07-11	3.76-12	4.68-15	9.07-16	1.45-27	4.90-10	3.54-10
6.53-10	8.73-10	2.98-10	5.91-12	2.82-14	5.68-18	4.92-26	1.40-10	5.95-11
5.01-10	1.85-10	1.63-10	1.21-11	3.00-13	3.35-17	2.62-21	2.15-10	9.97-11
2.39-10	1.49-10	2.96-10	2.68-10	1.04-14	4.65-16	1.11-22	2.11-10	9.23-11
5.38-09	1.12-09	3.92-10	6.18-12	3.81-13	9.71-16	1.07-19	2.70-10	9.57-11
2.59-09	3.87-09	3.82-10	2.93-11	2.75-13	5.15-18	6.71-24	5.32-10	1.72-10
1.33-09	2.60-08	5.47-10	7.53-11	7.87-13	4.50-17	1.12-26	5.73-10	2.66-10
2.47-09	5.00-10	4.51-10	4.07-11	7.03-13	2.33-16	3.98-24	8.44-10	2.91-10
8.07-10	8.42-10	1.93-10	1.06-10	5.16-14	8.65-19	9.71-30	1.51-09	5.64-10
3.18-09	9.20-09	5.94-10	9.89-11	5.99-13	4.74-16	1.95-20		
1.39-09	7.56-09	1.28-10	3.70-11	2.26-13	2.16-16	1.95-20	8.60-10	1.41-10

PHI 135 TO 180 DEGREES

3.82-10	4.59-09	4.79-11	8.44-12	2.17-16	2.57-20	5.13-29	1.16-10	4.88-11
3.25-10	6.66-10	6.98-09	9.96-11	9.05-13	2.24-19	1.68-28	1.76-10	9.47-11
1.77-10	4.24-10	3.80-09	2.09-11	2.48-14	6.11-19	4.94-29	1.36-10	5.34-11
7.22-10	4.13-10	3.78-10	2.82-11	2.32-13	2.18-18	5.09-28	1.63-10	4.78-11
7.28-10	3.95-10	2.04-10	1.21-10	5.75-14	5.12-18	1.35-24	3.65-10	2.63-10
1.96-09	1.08-10	3.96-10	3.89-11	5.05-14	6.86-13	2.47-24	1.57-10	4.31-11
1.17-09	4.10-10	3.56-10	1.51-11	3.12-13	2.92-15	7.94-23	4.86-10	2.15-10
6.22-10	1.93-10	7.73-10	3.44-11	2.90-13	2.86-14	1.03-23	1.96-09	1.47-09
1.91-09	1.58-09	2.02-10	1.15-11	7.78-14	5.27-17	2.85-22	3.73-10	8.58-11
5.79-09	1.26-09	3.70-10	2.02-10	2.01-12	5.68-18	1.46-25	3.71-09	1.38-09
1.94-09	1.26-09	2.83-09	8.86-11	5.72-13	1.28-13	7.88-23		
3.75-10	2.91-10	2.16-09	3.45-11	2.00-13	1.19-13	5.53-23	1.19-09	4.16-10
							5.90-06	2.02-06

AIR SCATTERING 5.36 02 ENERGY 6.00-01 ANGLE 1.50 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.9T-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	1.04-05	0.	0.	0.	0.	0.	0.	0.
4.00 01	1.24-06	1.35-06	0.	0.	0.	0.	0.	0.
6.00 01	0.	8.59-07	4.03-07	0.	0.	0.	0.	0.
8.00 01	0.	0.	7.34-07	0.	0.	0.	0.	0.
9.00 01	0.	0.	4.83-07	4.52-07	0.	0.	0.	0.
1.00 02	0.	0.	0.	8.39-07	0.	0.	0.	0.
1.20 02	0.	0.	0.	1.32-06	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	1.49-06	0.	0.	0.
1.60 02	0.	0.	0.	0.	2.14-06	0.	0.	0.
1.80 02	0.	0.	0.	0.	9.20-07	0.	0.	0.
	8.40-07	4.62-07	4.31-07	6.56-07	8.22-07	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	6.59-06	3.65-07	0.	0.	0.	0.	6.10-09	7.48-10
4.00 01	7.92-07	8.57-07	0.	0.	0.	5.67-13	2.44-09	1.49-09
6.00 01	0.	5.47-07	2.56-07	0.	0.	2.08-10	2.97-09	1.63-09
8.00 01	0.	0.	4.67-07	0.	0.	1.14-09	3.66-09	4.27-10
9.00 01	0.	0.	3.08-07	2.88-07	0.	1.93-08	5.79-10	7.78-10
1.00 02	0.	0.	0.	5.34-07	3.08-11	6.12-09	2.02-09	2.00-10
1.20 02	0.	0.	0.	8.43-07	1.11-09	7.18-09	1.20-09	6.13-10
1.40 02	0.	0.	0.	0.	9.55-07	8.76-09	1.91-09	1.29-09
1.60 02	0.	0.	0.	0.	1.41-06	3.82-09	1.39-09	3.22-09
1.80 02	0.	0.	2.12-12	4.74-12	8.26-07	1.60-09	1.50-08	1.74-09
	5.35-07	3.16-07	2.74-07	4.18-07	5.49-07	1.03-08	5.27-09	2.25-09
	9.22-08	1.06-07	9.15-08	1.28-07	7.28-08	2.94-09	1.06-09	4.52-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.85-08	7.96-11
4.00 01	0.	0.	0.	0.	0.	0.	8.17-09	2.14-09
6.00 01	0.	0.	0.	0.	0.	1.40-12	9.05-10	5.03-10
8.00 01	0.	0.	0.	0.	1.08-11	9.34-10	1.50-09	1.41-09
9.00 01	0.	0.	0.	0.	3.99-12	1.04-09	3.50-10	5.90-10
1.00 02	0.	0.	0.	0.	3.41-10	2.24-08	3.99-10	4.90-09
1.20 02	0.	0.	0.	0.	6.99-11	6.67-09	1.02-09	3.28-08
1.40 02	0.	0.	0.	0.	4.69-08	5.73-09	3.61-09	1.69-09
1.60 02	0.	0.	1.81-09	1.35-11	3.44-08	7.61-10	2.75-09	1.25-09
1.80 02	0.	0.	9.73-12	4.38-10	1.64-08	6.97-10	3.03-09	1.40-09
	0.	0.	3.14-10	2.91-11	1.95-08	8.26-09	5.35-09	1.34-08
	0.	0.	3.14-10	2.14-11	1.22-08	3.45-09	1.78-09	1.04-08

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	5.39-10	1.31-10
4.00 01	0.	0.	0.	0.	0.	2.02-11	7.42-10	1.98-10
6.00 01	0.	0.	0.	0.	0.	1.90-09	1.52-09	3.33-10
8.00 01	0.	0.	0.	0.	2.69-09	1.97-09	9.61-09	1.31-09
9.00 01	0.	0.	0.	0.	8.06-13	2.71-10	3.82-10	3.20-10
1.00 02	0.	0.	0.	0.	2.41-11	8.77-10	1.62-09	1.20-09
1.20 02	0.	0.	0.	0.	3.67-12	8.81-10	1.86-09	5.68-10
1.40 02	0.	0.	0.	1.99-11	3.77-10	2.85-09	1.67-09	5.80-09
1.60 02	0.	0.	1.94-13	3.03-10	1.31-08	5.48-09	4.84-10	9.24-09
1.80 02	0.	0.	5.74-11	1.35-10	5.22-08	1.33-10	1.30-09	7.57-10
	0.	0.	3.49-12	6.61-11	6.40-09	3.36-09	5.27-09	4.20-09
	0.	0.	3.46-12	3.29-11	3.69-09	9.93-10	2.66-09	1.85-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	7.56-10	2.18-10
4.00 01	0.	0.	0.	0.	0.	0.	6.46-09	2.86-10
6.00 01	0.	0.	0.	0.	0.	0.	2.60-08	1.20-10
8.00 01	0.	0.	0.	0.	0.	3.78-10	3.18-09	2.33-10
9.00 01	0.	0.	0.	0.	0.	1.61-09	3.23-09	5.52-10
1.00 02	0.	0.	0.	0.	2.21-14	1.57-10	8.39-11	8.50-10
1.20 02	0.	0.	0.	0.	2.18-12	1.61-09	6.66-10	1.42-09
1.40 02	0.	0.	0.	2.23-11	8.37-11	3.97-09	1.75-09	4.83-10
1.60 02	0.	0.	0.	4.52-11	9.61-10	1.17-09	2.88-10	2.80-09
1.80 02	0.	0.	3.92-12	0.	5.23-08	1.42-09	2.72-10	5.15-10
	0.	0.	2.37-13	1.38-11	3.34-09	2.30-09	1.04-08	1.52-09
	0.	0.	2.37-13	9.84-12	3.10-09	7.55-10	6.80-09	4.14-10

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AIR SCATTERING 5.36 02 ENERGY 6.00-01 ANGLE 1.50 01 DIST. 3.05 02
5.60 01 1.73 03 0. 0. 5.63 04 5.00 01 1.80 03

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	1.55-06
0.	0.	0.	0.	0.	0.	0.	3.21-07
0.	0.	0.	0.	0.	0.	0.	1.26-07
0.	0.	0.	0.	0.	0.	0.	7.34-08
0.	0.	0.	0.	0.	0.	0.	7.09-08
0.	0.	0.	0.	0.	0.	0.	4.19-08
0.	0.	0.	0.	0.	0.	0.	6.62-08
0.	0.	0.	0.	0.	0.	0.	7.43-08
0.	0.	0.	0.	0.	0.	0.	1.07-07
0.	0.	0.	0.	0.	0.	0.	4.60-08
0.	0.	0.	0.	0.	0.	0.	2.89-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
4.48-10	3.81-12	1.84-11	2.01-12	2.41-14	4.81-21	5.73-28	1.03-06	1.90-07
1.49-09	1.97-10	4.27-10	9.88-10	2.50-13	7.16-18	9.39-28	2.05-07	6.46-08
2.12-10	4.73-10	4.95-10	6.66-11	1.04-12	1.62-15	9.76-24	8.05-08	3.28-08
1.58-09	5.94-10	4.57-10	7.31-11	1.06-13	2.44-16	5.10-23	4.69-08	2.09-08
1.57-09	4.33-10	5.85-10	4.27-10	3.13-14	6.99-16	1.43-23	4.58-08	2.61-08
8.83-10	1.40-10	1.24-09	1.48-10	7.21-14	2.07-17	1.17-21	2.70-08	1.89-08
3.92-10	5.81-10	1.49-10	1.10-11	2.62-13	1.94-19	3.52-27	4.25-08	1.50-08
1.51-09	7.11-10	1.98-10	2.99-11	9.62-13	1.14-17	1.27-25	4.81-08	1.23-08
5.60-09	7.38-09	1.03-08	3.61-12	1.08-13	3.38-18	1.46-25	7.10-08	8.90-09
2.01-09	2.50-10	1.44-10	2.00-11	1.52-13	3.28-17	9.29-27	4.19-08	6.13-09
2.91-09	2.13-09	2.56-09	2.53-10	7.42-13	6.42-16	2.25-22		
8.96-10	1.17-09	1.60-09	1.62-10	2.61-13	5.16-16	2.04-22	1.88-07	9.66 19

PHI 45 TO 90 DEGREES

2.43-09	1.52-09	1.15-09	5.80-11	4.09-16	6.70-20	9.49-27	6.32-10	3.75-10
1.32-09	7.51-11	1.56-10	5.37-12	1.92-12	3.03-17	1.94-26	3.17-10	1.99-10
6.34-10	1.13-09	1.00-10	3.51-11	4.05-13	3.71-17	3.34-27	6.25-11	1.57-11
4.98-10	6.94-10	1.41-09	2.80-11	3.66-13	2.49-15	9.43-33	1.33-10	4.55-11
1.40-09	4.71-10	1.45-10	6.30-11	1.64-13	2.22-20	1.11-24	8.84-11	2.35-11
5.45-10	1.96-10	2.68-10	1.30-10	1.96-14	7.58-20	3.35-23	8.16-10	5.75-10
1.21-09	2.71-09	1.70-10	3.87-11	1.63-12	7.54-18	1.47-25	9.45-10	6.40-10
1.23-09	3.52-10	7.37-10	6.10-11	4.42-14	1.11-14	2.57-25	2.70-09	2.25-09
1.04-09	7.01-10	2.14-10	2.09-11	1.24-14	8.93-19	2.46-22	2.06-09	7.47-10
1.48-09	1.18-09	1.02-09	1.94-11	6.04-13	1.58-18	7.89-31	1.04-09	4.96-10
2.04-09	1.92-09	1.00-09	9.01-11	1.17-12	3.78-15	4.89-23		
5.01-10	6.15-10	4.65-10	2.54-11	5.99-13	3.06-15	4.32-23	1.76-09	6.57-10

PHI 90 TO 135 DEGREES

3.25-09	4.26-10	4.63-10	2.85-11	7.09-13	5.47-17	4.27-30	9.29-11	5.36-11
8.13-10	4.50-10	1.17-10	8.61-11	1.91-14	1.09-15	5.44-21	4.93-11	1.45-11
7.76-10	5.44-10	1.33-10	4.97-11	5.66-12	6.17-16	3.44-26	1.32-10	6.89-11
1.48-09	2.19-09	6.84-11	2.62-09	9.04-14	3.40-17	1.24-24	5.79-10	2.81-10
2.72-09	6.79-10	4.80-10	1.11-11	5.46-13	6.39-16	9.62-24	9.22-11	3.87-11
2.75-10	1.18-10	1.18-10	6.25-12	9.55-15	3.14-15	4.29-24	1.08-10	3.12-11
1.20-09	9.79-10	1.39-10	7.47-12	3.21-13	1.04-17	2.71-24	1.29-10	4.09-11
1.77-09	2.41-10	3.87-10	8.47-11	6.05-13	1.52-18	2.60-25	3.14-10	1.14-10
6.67-09	5.62-10	7.19-10	3.97-11	5.75-15	9.08-18	9.36-27	1.18-09	5.96-10
1.68-08	3.19-10	1.99-10	5.21-11	1.35-13	1.18-15	1.47-27	3.02-09	2.57-09
4.58-09	1.60-09	4.95-10	9.23-10	1.95-12	1.10-15	9.48-22		
1.51-09	5.59-10	1.25-10	8.65-10	1.48-12	5.46-16	9.44-22	7.85-10	2.26-10

PHI 135 TO 180 DEGREES

2.59-10	9.02-10	3.15-10	7.40-11	3.58-13	2.00-18	4.02-28	4.49-11	2.01-11
1.21-09	6.93-10	1.00-10	1.36-12	1.29-14	1.21-17	1.55-24	2.32-10	1.76-10
5.17-10	2.98-11	1.99-10	7.02-12	5.46-14	1.16-18	1.59-29	7.95-10	7.53-10
4.62-10	2.50-10	6.41-11	6.15-12	1.71-13	6.70-17	6.25-28	1.24-10	6.32-11
5.09-10	2.53-10	6.57-11	5.74-12	7.13-14	3.07-16	9.21-26	1.70-10	6.55-11
2.14-10	6.84-10	2.09-10	5.25-12	6.44-15	3.54-20	9.96-28	3.75-11	9.16-12
9.21-10	1.51-10	2.00-10	2.44-11	1.30-13	7.31-17	1.55-28	1.19-10	3.73-11
6.56-10	2.32-10	1.24-10	7.28-12	2.86-13	1.14-17	9.22-26	2.03-10	7.24-11
1.11-09	9.56-10	5.64-10	8.23-12	1.48-13	8.03-19	4.94-29	1.88-10	5.19-11
7.72-10	1.40-09	2.40-10	1.15-11	1.60-14	8.77-19	1.56-28	2.71-09	2.57-09
1.35-09	7.88-10	3.69-10	2.25-11	2.53-13	1.05-16	3.11-25		
2.80-10	1.61-10	8.92-11	7.27-12	8.59-14	6.07-17	2.71-25	6.19-10	2.57-10
							3.01-07	3.29-08

AIR SCATTERING 5.37 02 ENERGY 6.00-01 ANGLE 3.00 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	2.83-06	1.28-06	0.	0.	0.	0.	0.	0.
4.00 01	0.	9.67-07	1.66-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	4.92-07	0.	0.	0.	0.	0.
8.00 01	0.	0.	1.74-07	2.51-07	0.	0.	0.	0.
9.00 01	0.	0.	0.	6.16-07	0.	0.	0.	0.
1.00 02	0.	0.	0.	5.81-07	0.	0.	0.	0.
1.20 02	0.	0.	0.	1.45-07	4.75-07	0.	0.	0.
1.40 02	0.	0.	0.	0.	7.07-07	0.	0.	0.
1.60 02	0.	0.	0.	0.	3.37-07	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	1.71-07	2.45-07	2.17-07	3.37-07	4.02-07	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	1.80-06	8.13-07	0.	0.	0.	0.	1.40-09	3.13-10
4.00 01	0.	6.16-07	1.06-07	0.	0.	4.79-10	1.66-09	7.99-10
6.00 01	0.	0.	3.13-07	0.	0.	2.37-08	3.90-09	1.08-09
8.00 01	0.	0.	1.11-07	1.60-07	7.24-09	5.83-09	2.02-09	6.55-10
9.00 01	0.	0.	0.	3.92-07	2.30-08	4.66-09	2.06-10	2.85-10
1.00 02	0.	0.	0.	3.70-07	3.05-11	4.98-09	1.15-09	8.67-10
1.20 02	0.	0.	0.	9.21-08	3.06-07	5.83-09	8.41-10	1.24-09
1.40 02	0.	0.	0.	1.41-12	4.87-07	1.97-09	2.25-09	3.08-09
1.60 02	0.	0.	3.14-10	1.11-10	2.60-07	1.08-09	1.98-09	3.64-09
1.80 02	0.	0.	1.51-10	1.40-10	7.04-09	1.10-09	3.39-09	1.11-09
	1.09-07	1.56-07	1.38-07	2.15-07	2.81-07	1.26-08	3.73-09	2.78-09
	2.49-08	3.88-08	3.34-08	4.74-08	2.76-08	5.83-09	6.94-10	4.78-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	8.80-11	2.46-10
4.00 01	0.	0.	0.	0.	0.	7.68-09	1.44-09	3.76-10
6.00 01	0.	0.	0.	0.	0.	1.55-10	2.81-09	7.33-10
8.00 01	0.	0.	0.	0.	0.	6.33-09	2.96-09	8.39-10
9.00 01	0.	0.	0.	0.	0.	2.22-09	6.49-10	1.57-09
1.00 02	0.	0.	0.	0.	3.30-11	1.33-09	2.57-09	1.71-09
1.20 02	0.	0.	0.	1.31-11	6.95-11	1.75-08	1.94-08	2.65-09
1.40 02	0.	0.	0.	0.	2.31-09	7.62-09	5.10-09	2.11-09
1.60 02	0.	0.	0.	1.85-11	2.95-08	7.96-10	1.55-09	2.10-09
1.80 02	0.	0.	6.85-10	3.55-11	3.00-09	9.20-10	8.76-10	6.77-10
	0.	0.	4.13-11	9.64-12	5.95-09	1.20-08	1.05-08	2.95-09
	0.	0.	4.13-11	5.35-12	4.28-09	3.67-09	6.23-09	7.40-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.31-09	1.54-10
4.00 01	0.	0.	0.	0.	0.	2.87-11	2.51-09	8.27-09
6.00 01	0.	0.	0.	0.	0.	0.	2.62-09	9.26-10
8.00 01	0.	0.	0.	0.	0.	2.72-09	2.53-10	2.40-10
9.00 01	0.	0.	0.	0.	0.	5.50-10	1.59-09	3.57-10
1.00 02	0.	0.	0.	0.	9.79-12	7.67-09	1.57-09	8.05-09
1.20 02	0.	0.	0.	3.94-12	1.84-11	1.16-09	1.73-09	5.69-09
1.40 02	0.	0.	0.	1.39-13	3.38-11	4.55-09	1.27-09	1.44-09
1.60 02	0.	0.	9.85-12	0.	4.98-10	3.14-09	3.89-10	1.62-09
1.80 02	0.	0.	7.32-12	3.49-15	2.59-09	7.69-10	1.03-09	9.66-10
	0.	0.	2.15-12	1.32-12	2.59-10	4.50-09	2.88-09	5.81-09
	0.	0.	1.77-12	1.29-12	1.00-10	1.46-09	5.51-10	2.68-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	4.33-11	2.43-11
4.00 01	0.	0.	0.	0.	0.	0.	1.31-09	2.49-10
6.00 01	0.	0.	0.	0.	0.	1.78-09	6.87-10	8.75-10
8.00 01	0.	0.	0.	0.	0.	9.25-09	1.71-09	1.17-09
9.00 01	0.	0.	0.	0.	0.	2.64-11	2.32-10	2.76-09
1.00 02	0.	0.	0.	8.83-11	5.99-11	1.25-10	4.28-09	2.69-10
1.20 02	0.	0.	0.	0.	8.34-12	1.07-08	1.13-09	1.20-09
1.40 02	0.	0.	0.	0.	2.78-10	1.35-09	3.95-09	1.39-09
1.60 02	0.	0.	1.79-13	3.62-11	2.97-09	7.18-10	1.54-09	6.45-10
1.80 02	0.	0.	0.	3.56-13	8.92-10	7.94-09	1.82-10	2.63-09
	0.	0.	3.10-14	2.16-11	6.57-10	7.99-09	3.45-09	2.22-09
	0.	0.	3.10-14	1.65-11	5.19-10	4.15-09	1.03-09	5.83-10

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AIR SCATTERING 5.37 02 ENERGY 6.00-01 ANGLE 3.00 01 DIST. 3.05 02
5.20 01 1.74 03 0. 0. 5.64 04 5.00 01 1.80 03

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	5.52-07
0.	0.	0.	0.	0.	0.	0.	1.13-07
0.	0.	0.	0.	0.	0.	0.	4.92-08
0.	0.	0.	0.	0.	0.	0.	3.00-08
0.	0.	0.	0.	0.	0.	0.	3.08-08
0.	0.	0.	0.	0.	0.	0.	2.91-08
0.	0.	0.	0.	0.	0.	0.	3.10-08
0.	0.	0.	0.	0.	0.	0.	3.54-08
0.	0.	0.	0.	0.	0.	0.	1.69-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.09-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
1.10-09	1.16-10	3.80-11	2.69-12	2.18-16	1.49-22	2.95-30	3.52-07	7.16-08
4.40-10	5.24-10	3.62-10	2.76-11	1.14-13	9.20-18	4.21-27	7.22-08	1.99-08
7.17-10	5.66-10	7.92-11	9.92-11	1.28-13	8.16-20	1.79-24	3.22-08	9.91-09
1.62-09	3.88-10	1.47-10	5.55-11	1.34-13	1.21-17	9.46-23	1.97-08	6.49-09
3.53-10	1.47-10	4.39-10	1.21-10	5.81-14	5.45-16	2.63-24	2.09-08	8.09-09
2.96-10	1.51-10	9.77-11	6.56-11	1.92-14	8.06-19	3.12-25	1.87-08	7.00-09
9.74-10	1.03-09	1.72-10	2.12-11	7.53-14	5.02-19	1.28-25	2.02-08	4.13-09
1.24-09	1.16-09	7.68-10	9.12-12	6.99-14	1.60-18	4.01-23	2.46-08	2.96-09
1.12-09	1.18-09	6.21-10	3.13-11	1.84-12	2.36-17	3.63-27	1.33-08	8.49-10
2.60-10	2.15-10	2.23-10	1.62-11	1.02-13	3.85-16	2.18-34	5.41-10	2.90-10
1.87-09	1.29-09	6.09-10	1.01-10	4.86-13	1.05-16	4.26-23		
3.97-10	3.78-10	2.05-10	4.36-11	3.28-13	9.01-17	3.27-23	7.11-08	6.77-09

PHI 45 TO 90 DEGREES

1.47-10	3.27-10	2.72-11	1.80-12	1.90-14	1.87-19	1.84-28	1.41-11	6.33-12
1.59-10	2.72-10	1.21-10	8.58-13	2.37-14	4.92-20	1.32-29	2.88-10	2.31-10
7.19-10	3.83-10	1.94-10	9.91-11	3.28-13	9.98-18	4.23-27	1.24-10	3.62-11
7.00-10	3.22-10	1.94-10	2.06-11	2.50-13	1.19-16	1.56-25	3.15-10	1.45-10
5.39-10	4.22-10	2.09-10	1.10-11	2.68-12	3.98-15	1.09-26	1.35-10	4.38-11
4.65-09	2.93-10	9.27-10	1.82-11	1.64-13	5.31-17	1.91-22	2.62-10	8.89-11
6.44-10	6.88-10	2.22-10	7.15-11	3.49-13	2.56-15	1.12-25	1.19-09	6.24-10
1.32-09	3.31-10	1.53-09	1.99-11	3.14-13	7.95-17	2.94-24	5.85-10	1.65-10
1.32-09	4.25-10	5.70-10	1.23-11	2.37-12	1.87-16	1.83-23	1.62-09	1.23-09
4.76-10	2.88-10	4.65-10	3.61-11	2.93-14	1.87-15	1.80-28	3.05-10	9.07-11
2.18-09	8.71-10	9.41-10	7.14-11	1.28-12	1.74-15	3.72-23		
5.91-10	1.89-10	3.71-10	3.12-11	6.16-13	1.02-15	3.33-23	1.10-09	3.05-10

PHI 90 TO 135 DEGREES

3.02-10	4.60-09	3.68-11	6.15-13	1.49-13	1.55-19	7.87-27	7.48-11	3.05-11
7.46-10	4.29-10	5.12-11	1.34-11	3.49-13	1.23-18	2.15-29	2.61-10	1.28-10
8.08-10	3.65-10	9.21-11	2.69-11	1.41-12	1.63-17	6.61-28	1.14-10	3.85-11
8.08-10	4.98-10	1.13-09	7.50-11	1.87-13	4.85-17	8.40-27	1.27-10	7.73-11
5.51-10	4.97-10	2.05-10	3.37-12	6.37-13	4.36-17	5.10-27	8.74-11	3.96-11
1.86-09	4.81-10	1.59-10	4.78-11	3.22-13	2.60-16	9.95-27	4.83-10	1.85-10
2.32-09	9.45-10	7.55-11	2.33-11	1.45-12	3.61-15	6.68-27	2.58-10	9.93-11
7.41-10	5.12-10	3.09-10	1.84-11	1.22-13	4.28-18	4.51-28	2.28-10	9.81-11
1.39-09	1.67-09	1.03-10	2.99-10	2.89-14	3.47-18	8.63-26	2.12-10	5.59-11
9.40-10	4.19-09	7.75-12	3.44-10	7.35-15	3.40-18	2.45-25	2.67-10	9.12-11
2.25-09	1.61-09	5.93-10	1.28-10	1.18-12	1.25-15	3.81-26		
6.63-10	4.36-10	2.82-10	5.56-11	5.19-13	1.10-15	2.10-26	4.19-10	7.71-11

PHI 135 TO 180 DEGREES

3.02-11	6.87-11	5.69-11	7.66-11	3.27-12	9.45-21	3.52-30	4.20-12	1.65-12
5.33-10	1.69-10	3.76-11	3.42-11	2.13-14	1.46-18	1.43-26	5.72-11	1.39-11
1.90-10	1.69-10	8.26-11	2.77-11	2.65-13	1.60-16	7.51-27	9.79-11	5.48-11
1.86-09	3.41-10	1.28-10	4.46-11	1.44-13	1.99-18	4.89-27	3.95-10	2.80-10
9.58-10	7.09-10	5.14-11	9.39-12	1.24-13	4.62-16	4.77-23	8.98-11	4.98-11
4.10-10	2.38-10	3.15-11	6.99-12	9.39-13	2.00-15	4.86-28	1.56-10	9.51-11
3.99-10	1.60-09	9.06-10	1.35-10	5.43-12	4.40-14	2.03-26	4.15-10	2.58-10
7.95-10	1.15-09	5.15-10	8.78-12	7.81-14	7.30-15	1.31-29	2.33-10	9.16-11
9.21-10	4.47-10	7.06-10	2.32-10	1.13-11	4.60-18	5.12-26	2.63-10	1.52-10
2.05-10	1.02-10	1.16-10	6.38-11	1.97-15	3.09-17	8.19-24	3.48-10	2.18-10
1.50-09	1.27-09	6.50-10	1.26-10	4.25-12	1.68-14	8.80-24		
4.44-10	4.05-10	2.68-10	6.28-11	3.65-12	1.64-14	8.19-24	4.72-10	1.35-10
							1.15-07	1.07-08

AIR SCATTERING 5.38 02 ENERGY 6.00-01 ANGLE 6.00 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.9T-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	5.66-07	9.02-07	0.	0.	0.	0.	0.
4.00 01	0.	0.	3.63-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	1.34-08	4.18-07	0.	0.	0.	0.
8.00 01	0.	0.	0.	2.54-07	8.87-08	0.	0.	0.
9.00 01	0.	0.	0.	0.	3.25-07	0.	0.	0.
1.00 02	0.	0.	0.	0.	3.05-07	0.	0.	0.
1.20 02	0.	0.	0.	0.	2.23-07	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	3.41-08	1.21-07	1.94-07	2.11-07	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	3.60-07	5.74-07	0.	0.	1.77-10	7.27-10	5.76-10
4.00 01	0.	0.	2.31-07	2.07-07	0.	1.37-08	8.43-10	1.27-09
6.00 01	0.	0.	8.52-09	2.66-07	0.	9.31-09	4.16-10	1.11-09
8.00 01	0.	0.	0.	1.62-07	1.16-07	3.27-09	9.63-10	2.15-09
9.00 01	0.	0.	0.	1.20-07	2.23-07	4.97-09	2.74-09	2.19-09
1.00 02	0.	0.	0.	0.	2.13-07	3.08-09	5.64-10	2.77-09
1.20 02	0.	0.	0.	2.23-13	1.88-07	5.03-09	1.57-09	4.24-09
1.40 02	0.	0.	0.	5.58-13	7.61-09	7.20-10	1.09-09	1.46-09
1.60 02	0.	0.	0.	2.35-10	1.42-09	3.20-09	1.17-09	3.78-09
1.80 02	0.	0.	0.	0.	1.21-10	4.55-09	4.39-10	1.33-09
	0.	2.17-08	7.71-08	1.80-07	1.77-07	1.00-08	2.22-09	4.62-09
	0.	8.20-09	1.42-08	4.92-08	2.30-08	2.44-09	4.47-10	8.52-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	3.69-10	2.64-10
4.00 01	0.	0.	0.	0.	0.	8.92-09	1.05-09	3.60-10
6.00 01	0.	0.	0.	0.	0.	4.52-09	2.05-09	2.75-09
8.00 01	0.	0.	0.	0.	1.35-12	7.66-09	5.15-09	9.19-10
9.00 01	0.	0.	0.	0.	1.21-11	4.34-09	8.23-10	2.82-10
1.00 02	0.	0.	0.	0.	1.32-10	5.33-09	5.57-10	1.27-09
1.20 02	0.	0.	0.	8.20-13	1.34-09	5.73-09	7.34-10	4.39-09
1.40 02	0.	0.	0.	5.67-12	8.30-10	1.60-08	1.40-09	1.75-09
1.60 02	0.	0.	3.05-13	0.	1.61-09	1.06-09	2.61-09	7.24-10
1.80 02	0.	0.	0.	0.	4.59-11	6.16-10	2.16-09	8.66-10
	0.	0.	5.30-14	1.78-12	9.68-10	1.33-08	3.86-09	3.46-09
	0.	0.	5.39-14	1.53-12	4.90-10	3.58-09	1.18-09	1.11-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	8.51-10	1.14-09	6.78-10
4.00 01	0.	0.	0.	0.	0.	1.54-11	4.83-09	5.18-10
6.00 01	0.	0.	0.	0.	0.	1.38-11	8.70-09	3.10-09
8.00 01	0.	0.	0.	0.	0.	5.76-09	9.29-10	9.49-10
9.00 01	0.	0.	0.	0.	0.	7.00-11	2.09-09	3.32-10
1.00 02	0.	0.	0.	0.	0.	1.35-09	2.02-09	9.66-10
1.20 02	0.	0.	0.	0.	1.78-11	1.09-09	6.92-10	2.05-09
1.40 02	0.	0.	0.	0.	2.02-13	5.75-10	2.90-10	4.09-09
1.60 02	0.	0.	0.	1.68-11	2.54-10	1.82-09	1.36-09	6.50-10
1.80 02	0.	0.	0.	0.	0.	2.40-08	7.60-10	1.35-09
	0.	0.	0.	2.92-12	5.00-11	4.46-09	4.82-09	3.44-09
	0.	0.	0.	2.92-12	3.21-11	2.26-09	1.40-09	1.35-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.83-09	8.16-11
4.00 01	0.	0.	0.	0.	0.	9.99-12	5.93-09	9.34-10
6.00 01	0.	0.	0.	0.	0.	0.	9.99-10	7.68-10
8.00 01	0.	0.	0.	0.	0.	0.	6.30-09	1.74-09
9.00 01	0.	0.	0.	0.	0.	0.	1.99-09	1.39-10
1.00 02	0.	0.	0.	0.	0.	0.	9.53-10	1.01-09
1.20 02	0.	0.	0.	0.	0.	1.31-10	1.58-09	4.95-10
1.40 02	0.	0.	0.	0.	1.46-10	1.34-10	1.23-09	2.99-10
1.60 02	0.	0.	0.	0.	9.87-12	9.31-11	8.64-10	7.75-10
1.80 02	0.	0.	0.	0.	1.07-13	3.72-08	5.02-11	4.45-10
	0.	0.	0.	0.	4.05-11	2.34-09	5.03-09	1.54-09
	0.	0.	0.	0.	3.34-11	1.73-09	1.55-09	5.55-10

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AIR SCATTERING 5.38 02 ENERGY 6.00-01 ANGLE 6.00 01 DIST. 3.05 02
5.80 01 1.73 03 0. 0. 5.64 04 5.00 01 1.80 03

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	1.47-07
0.	0.	0.	0.	0.	0.	0.	3.63-08
0.	0.	0.	0.	0.	0.	0.	2.23-08
0.	0.	0.	0.	0.	0.	0.	1.71-08
0.	0.	0.	0.	0.	0.	0.	1.63-08
0.	0.	0.	0.	0.	0.	0.	1.53-08
0.	0.	0.	0.	0.	0.	0.	1.11-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							3.58-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
4.94-10	1.61-10	1.42-10	4.95-12	1.07-13	2.01-17	5.40-28	9.35-08	2.14-08
6.07-10	3.29-11	1.44-10	1.64-11	3.82-14	8.33-15	1.14-30	3.39-08	1.18-08
1.54-10	1.30-09	1.50-10	4.03-12	1.69-12	9.82-16	2.34-28	1.45-08	3.26-09
7.56-10	3.57-10	3.03-10	1.84-11	3.39-12	1.31-16	2.12-23	1.41-08	3.92-09
5.70-10	2.51-10	6.42-11	7.14-12	5.07-13	4.75-14	5.45-22	1.74-08	5.58-09
6.76-10	3.45-10	1.77-10	7.75-12	1.23-12	1.13-14	2.73-24	1.08-08	1.67-09
2.78-09	2.61-09	9.36-10	1.21-11	9.14-14	9.12-17	8.28-26	9.79-09	9.96-10
1.70-09	6.98-10	1.48-10	1.24-11	1.18-13	1.17-14	8.33-22	5.07-10	8.06-11
1.70-09	1.35-10	1.18-10	3.49-11	3.50-13	3.96-19	4.90-24	3.26-10	6.64-11
1.15-09	4.82-10	2.30-10	1.48-11	9.29-14	2.12-18	1.09-37	2.12-10	1.03-10
2.36-09	1.67-09	5.93-10	2.70-11	2.00-12	1.51-14	3.25-22		
5.40-10	6.52-10	2.02-10	6.43-12	1.04-12	1.07-14	2.35-22	2.83-08	

PHI 45 TO 90 DEGREES

7.55-10	3.40-10	2.40-11	1.90-12	3.98-15	2.92-18	2.63-32	3.51-11	1.01-11
1.10-09	1.77-10	6.18-11	9.88-11	4.26-13	5.88-18	2.62-28	3.31-10	1.98-10
2.77-09	3.01-10	1.65-10	1.04-11	4.04-12	1.04-14	6.44-28	3.12-10	1.23-10
7.77-10	3.48-10	6.11-11	1.05-11	3.52-12	1.76-14	1.57-22	4.22-10	1.98-10
5.04-10	1.29-09	1.96-10	1.28-11	9.73-13	2.02-18	4.34-27	1.86-10	6.22-11
2.04-10	5.22-10	1.04-10	3.89-11	4.05-14	7.76-20	4.92-29	2.19-10	6.88-11
6.64-10	8.83-10	1.21-09	1.76-11	5.03-13	2.29-15	3.05-22	3.83-10	1.07-10
9.96-10	4.13-10	2.77-10	1.21-11	4.29-13	4.82-17	3.05-24	6.25-10	2.96-10
5.07-10	6.73-10	6.23-11	1.16-11	6.90-14	6.57-19	4.64-27	2.23-10	7.71-11
2.89-10	1.98-10	9.94-11	3.06-12	2.91-13	9.06-19	3.04-32	1.12-10	4.66-11
1.94-09	1.09-09	6.13-10	4.36-11	2.78-12	9.27-15	1.52-22		
6.23-10	2.53-10	3.75-10	1.15-11	1.67-12	6.40-15	1.12-22	6.88-10	1.22-10

PHI 90 TO 135 DEGREES

1.20-09	1.80-10	1.85-10	1.67-12	2.14-13	1.07-18	5.93-27	1.01-10	3.93-11
1.40-09	4.34-10	5.09-11	2.79-11	2.76-14	4.23-21	1.37-28	1.89-10	8.41-11
2.60-10	1.06-10	1.32-10	7.89-11	6.96-13	1.03-16	6.11-27	3.31-10	1.50-10
6.21-10	5.26-10	7.34-11	2.38-11	1.26-12	7.57-16	4.48-23	2.38-10	1.65-10
1.64-10	1.51-10	5.84-10	8.31-11	3.81-12	8.57-17	8.20-25	8.26-11	2.94-11
1.05-09	6.44-10	8.81-10	4.72-11	2.12-13	8.55-18	9.68-25	1.57-10	6.19-11
1.42-09	1.41-09	4.34-10	2.25-11	2.33-13	9.52-18	3.17-25	1.42-10	4.07-11
5.28-10	3.75-10	3.99-10	2.11-11	1.07-13	1.49-17	1.76-24	1.22-10	7.68-11
4.15-10	7.66-10	5.88-11	1.09-11	7.21-14	7.94-19	1.09-26	1.39-10	5.16-11
2.50-10	6.29-10	2.21-11	8.18-12	2.98-15	6.79-19	5.36-27	7.82-10	6.75-10
1.44-09	1.15-09	5.93-10	7.17-11	1.43-12	2.98-16	1.55-23		
3.42-10	3.40-10	1.79-10	2.39-11	1.08-12	2.34-16	1.39-23	3.97-10	8.50-11

PHI 135 TO 180 DEGREES

3.05-10	8.71-10	3.67-11	3.84-11	7.50-15	3.62-17	1.54-27	1.02-10	7.67-11
8.98-10	5.96-11	1.14-10	7.91-12	4.23-12	6.33-17	3.21-30	2.16-10	1.10-10
7.22-10	3.31-10	1.42-10	3.19-11	2.57-13	1.19-15	1.26-19	6.47-11	1.74-11
7.85-10	2.34-10	2.84-10	1.69-10	1.99-13	9.95-15	2.59-28	2.46-10	1.30-10
2.02-10	2.05-09	3.79-09	2.50-11	3.71-15	5.15-17	2.54-26	1.25-10	4.95-11
1.91-09	2.41-10	7.40-10	2.74-11	3.66-13	1.57-18	5.01-24	9.71-11	3.73-11
1.91-09	7.68-10	1.51-10	8.25-12	3.15-13	2.49-17	1.20-25	1.09-10	3.54-11
4.06-10	5.58-10	3.40-10	1.04-11	6.19-13	3.00-18	4.19-27	7.15-11	2.53-11
2.94-10	2.37-09	2.48-10	3.93-11	1.34-12	9.96-18	4.16-26	7.71-11	2.51-11
1.32-09	1.36-09	1.66-10	5.09-12	5.35-13	1.10-17	3.54-24	1.17-09	8.63-10
1.36-09	1.52-09	1.13-09	8.90-11	1.46-12	3.60-15	3.36-20		
6.66-10	4.31-10	6.53-10	5.71-11	7.84-13	3.56-15	3.36-20	3.18-10	7.43-11
							4.67-08	5.07-09

AIR SCATTERING 5.39 02 ENERGY 6.00-01 ANGLE 9.00 01 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	0.	4.62-07	7.47-07	0.	0.	0.	0.
4.00 01	0.	0.	0.	5.82-07	0.	0.	0.	0.
6.00 01	0.	0.	0.	8.61-08	2.82-07	0.	0.	0.
8.00 01	0.	0.	0.	0.	2.63-07	0.	0.	0.
9.00 01	0.	0.	0.	0.	1.13-07	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	2.79-08	1.69-07	1.81-07	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	0.	2.94-07	4.76-07	0.	7.59-10	2.13-10	5.10-10
4.00 01	0.	0.	0.	3.70-07	8.83-11	4.46-09	9.96-10	3.45-10
6.00 01	0.	0.	0.	5.48-08	1.85-07	1.64-09	1.03-09	4.16-09
8.00 01	0.	0.	0.	2.58-13	1.83-07	2.54-09	1.44-09	9.16-10
9.00 01	0.	0.	0.	2.46-10	9.12-08	1.27-09	4.55-09	8.31-10
1.00 02	0.	0.	0.	1.93-11	4.23-09	1.48-09	2.10-09	2.56-09
1.20 02	0.	0.	0.	0.	3.98-09	1.39-09	1.85-09	1.26-09
1.40 02	0.	0.	0.	0.	2.83-09	1.49-09	1.60-09	8.89-10
1.60 02	0.	0.	0.	0.	2.63-12	1.15-08	8.86-10	4.07-09
1.80 02	0.	0.	0.	0.	1.57-10	8.72-10	3.87-10	1.97-09
	0.	0.	1.78-08	1.08-07	1.27-07	5.47-09	3.29-09	3.56-09
	0.	0.	5.60-09	1.65-08	9.41-09	1.68-09	5.19-10	7.84-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	5.59-10	1.22-09	3.14-10
4.00 01	0.	0.	0.	0.	5.17-08	2.64-08	3.43-09	4.38-10
6.00 01	0.	0.	0.	1.41-12	1.73-10	2.44-09	1.63-09	4.27-10
8.00 01	0.	0.	0.	0.	3.00-11	1.22-08	5.52-10	3.77-09
9.00 01	0.	0.	0.	0.	8.46-10	2.80-09	3.92-10	9.00-10
1.00 02	0.	0.	0.	0.	1.54-10	3.15-09	8.55-10	5.56-10
1.20 02	0.	0.	0.	1.68-11	5.41-09	7.51-09	7.05-10	1.97-09
1.40 02	0.	0.	0.	4.61-11	9.57-10	7.04-09	2.40-09	1.33-09
1.60 02	0.	0.	0.	0.	1.44-11	1.52-09	6.74-08	3.64-09
1.80 02	0.	0.	0.	0.	1.01-11	7.23-10	1.36-10	5.52-10
	0.	0.	0.	1.81-11	1.12-08	1.49-08	1.41-08	3.35-09
	0.	0.	0.	1.29-11	9.14-09	4.32-09	1.12-08	1.02-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.99-09	2.03-09	4.97-09
4.00 01	0.	0.	0.	0.	0.	1.14-08	3.39-10	1.19-09
6.00 01	0.	0.	0.	0.	0.	3.63-10	1.99-09	8.84-10
8.00 01	0.	0.	0.	0.	0.	1.53-11	3.84-09	6.21-10
9.00 01	0.	0.	0.	8.42-12	0.	6.33-11	3.06-09	1.16-10
1.00 02	0.	0.	0.	0.	2.48-11	2.82-11	5.33-10	3.03-09
1.20 02	0.	0.	0.	0.	1.89-11	2.39-10	8.30-10	4.00-10
1.40 02	0.	0.	0.	0.	3.43-11	3.84-10	1.33-09	4.84-10
1.60 02	0.	0.	0.	0.	0.	2.32-10	1.21-09	1.86-09
1.80 02	0.	0.	0.	0.	0.	2.90-11	3.29-10	8.03-10
	0.	0.	0.	1.46-12	1.96-11	2.43-09	3.44-09	2.12-09
	0.	0.	0.	1.46-12	1.17-11	1.13-09	8.01-10	6.29-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	8.24-11	3.34-09	1.83-10
4.00 01	0.	0.	0.	0.	0.	7.08-12	6.42-09	4.30-10
6.00 01	0.	0.	0.	0.	0.	1.45-12	1.25-08	1.41-09
8.00 01	0.	0.	0.	0.	0.	2.79-12	1.39-09	5.78-10
9.00 01	0.	0.	0.	0.	0.	0.	7.81-09	6.66-10
1.00 02	0.	0.	0.	0.	0.	2.91-11	4.90-09	3.35-09
1.20 02	0.	0.	0.	0.	0.	8.56-11	6.59-10	7.47-10
1.40 02	0.	0.	0.	0.	1.32-12	5.00-11	6.16-10	2.13-10
1.60 02	0.	0.	0.	0.	3.96-10	0.	3.14-10	1.24-09
1.80 02	0.	0.	0.	0.	0.	8.53-10	3.06-10	1.45-10
	0.	0.	0.	0.	6.91-11	1.05-10	7.76-09	1.87-09
	0.	0.	0.	0.	6.36-11	5.12-11	2.51-09	6.15-10

143175147635 102013350515

AIR SCATTERING 5.39 02 ENERGY 6.00-01 ANGLE 9.00 01 DIST. 3.05 02
4.80 01 1.71 03 0. 0. 5.70 04 5.00 01 1.80 03

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
0.	0.	0.	0.	0.	0.	0.	8.36-08	
0.	0.	0.	0.	0.	0.	0.	2.91-08	
0.	0.	0.	0.	0.	0.	0.	1.84-08	
0.	0.	0.	0.	0.	0.	0.	1.32-08	
0.	0.	0.	0.	0.	0.	0.	5.67-09	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
							2.03-08	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
2.74-10	1.88-09	2.30-10	2.56-11	1.07-14	4.64-18	2.41-27	5.33-08	1.22-08
4.75-10	2.12-10	1.81-10	5.26-11	6.71-13	4.33-15	3.96-22	1.87-08	3.63-09
5.47-10	5.96-10	8.27-11	1.08-11	3.47-14	9.57-17	2.45-24	1.22-08	1.74-09
1.87-09	5.56-10	6.33-10	1.32-10	1.50-12	1.49-18	7.83-26	9.31-09	7.68-10
1.78-09	4.00-10	6.62-10	7.54-12	4.78-13	1.68-18	2.91-30	4.81-09	4.13-10
1.48-09	5.40-10	3.27-10	4.52-11	4.71-13	1.53-18	2.81-28	4.10-10	5.53-11
9.48-10	4.22-09	2.11-10	1.35-10	2.65-12	3.79-16	1.46-25	3.86-10	8.15-11
4.96-09	4.83-10	5.16-10	7.18-11	9.67-14	3.71-17	6.57-25	3.62-10	1.06-10
7.14-09	5.33-10	6.44-10	3.86-12	1.74-13	3.63-19	1.93-26	6.08-10	3.15-10
1.02-07	7.13-10	4.89-10	1.87-10	4.40-14	2.77-17	1.66-28	2.14-09	2.02-09
1.04-08	4.30-09	7.93-10	1.41-10	1.70-12	9.15-16	6.97-23		
6.22-09	9.59-10	2.30-10	6.04-11	6.79-13	7.42-16	6.88-23	1.41-08	1.09-09

PHI 45 TO 90 DEGREES

5.47-11	1.36-09	1.22-10	8.33-12	5.90-14	2.64-18	3.83-25	7.57-11	3.71-11
4.42-10	5.20-10	1.55-10	1.38-11	1.22-13	6.33-16	3.86-24	3.50-09	2.64-09
6.91-10	4.47-10	2.70-10	1.46-11	2.84-13	4.99-18	4.22-25	1.61-10	4.54-11
9.40-10	1.15-09	2.79-10	4.19-11	4.53-13	2.69-17	7.79-27	4.92-10	2.00-10
6.26-10	4.10-10	1.63-10	1.03-10	3.11-13	2.17-16	9.32-31	1.75-10	5.23-11
2.91-10	1.04-09	2.48-10	1.84-11	2.62-13	3.12-15	6.99-26	1.58-10	7.41-11
2.02-09	9.06-10	6.02-10	1.06-10	8.34-12	5.87-18	3.91-24	6.14-10	4.03-10
1.14-09	6.94-10	9.18-10	1.15-10	1.11-13	1.13-16	2.86-27	4.09-10	1.66-10
4.29-09	3.86-10	2.80-10	1.68-11	7.45-12	5.96-14	3.91-27	2.23-09	1.94-09
1.47-09	4.25-10	1.22-10	3.39-12	3.67-12	8.21-20	6.03-27	7.02-11	2.04-11
2.53-09	1.48-09	7.65-10	1.10-10	4.62-12	1.11-14	2.10-24		
6.14-10	3.32-10	1.82-10	3.55-11	2.70-12	1.04-14	1.18-24	1.57-09	5.90-10

PHI 90 TO 135 DEGREES

3.12-10	1.21-09	5.19-10	5.96-12	3.93-14	8.11-20	1.52-29	2.44-10	1.18-10
3.39-10	3.79-11	9.72-11	7.85-12	4.08-14	1.97-19	4.51-28	3.83-10	1.94-10
4.94-10	5.62-10	2.06-10	2.45-11	3.77-13	1.82-16	6.98-23	1.06-10	3.11-11
5.23-10	4.10-08	5.96-10	3.12-11	1.79-13	7.18-19	9.53-29	5.55-10	4.13-10
7.17-10	1.13-10	2.95-10	4.82-11	8.03-14	3.15-17	5.27-25	1.15-10	4.33-11
7.33-10	3.51-10	9.32-11	1.02-10	6.07-13	2.37-17	3.72-25	9.85-11	5.06-11
8.09-10	1.36-10	3.78-10	8.29-11	5.55-14	3.40-17	3.39-25	6.01-11	1.43-11
6.35-10	2.01-10	3.18-10	3.11-11	1.10-12	5.78-18	1.82-24	8.09-11	1.99-11
4.33-10	1.82-09	2.25-10	2.74-11	1.21-12	1.23-16	4.31-26	1.10-10	3.40-11
1.64-10	1.12-10	2.53-10	2.59-11	9.20-13	6.57-16	5.62-29	3.39-11	1.58-11
1.10-09	1.41-08	6.27-10	8.62-11	8.64-13	1.32-16	1.93-23		
2.17-10	1.33-08	1.40-10	3.09-11	3.35-13	6.68-17	1.86-23	3.90-10	1.41-10

PHI 135 TO 180 DEGREES

6.64-10	4.32-10	9.69-11	9.41-12	1.78-14	5.56-19	5.34-30	1.25-10	9.71-11
2.65-09	2.17-10	1.74-10	2.93-11	3.01-14	2.71-17	1.06-24	2.58-10	1.13-10
1.62-09	1.50-09	2.03-10	2.86-11	1.33-13	3.08-17	1.69-25	4.54-10	2.49-10
3.11-09	4.66-10	1.57-10	1.57-11	4.33-13	3.68-16	9.49-25	1.22-10	5.34-11
3.63-10	7.06-10	3.48-09	1.58-11	8.63-14	5.03-17	2.78-25	2.97-10	1.94-10
8.02-10	2.35-10	1.77-10	1.24-11	2.18-14	2.85-17	3.62-25	2.35-10	1.30-10
9.95-10	9.11-10	4.45-10	1.56-10	1.30-12	3.06-17	3.07-24	7.18-11	1.72-11
9.58-10	6.88-10	3.84-10	1.33-11	2.41-13	1.66-16	2.29-23	5.43-11	1.36-11
2.61-09	3.03-09	7.00-11	1.20-11	3.42-13	1.68-17	7.64-23	1.37-10	4.57-11
2.10-10	7.86-09	4.17-11	7.74-12	8.68-13	4.57-20	1.75-24	1.21-10	7.81-11
3.19-09	2.26-09	1.04-09	8.02-11	8.01-13	2.04-16	2.11-23		
1.08-09	9.96-10	4.61-10	4.47-11	4.07-13	1.04-16	1.56-23	3.74-10	8.79-11
							2.58-08	2.13-09

AIR SCATTERING 5.40 02 ENERGY 6.00-01 ANGLE 1.35 02 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	0.	0.	0.	2.35-06	0.	0.	0.
4.00 01	0.	0.	0.	0.	7.14-07	0.	0.	0.
6.00 01	0.	0.	0.	0.	3.90-08	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1 00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	2.76-07	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	0.	0.	0.	1.50-06	9.45-09	1.31-09	2.64-09
4.00 01	0.	0.	0.	0.	4.74-07	4.98-09	4.45-09	4.55-09
6.00 01	0.	0.	0.	4 38-12	5.45-08	2.26-09	1.47-09	1.73-09
8.00 01	0.	0.	0.	0.	1.33-08	1.67-09	1.18-09	2.56-09
9.00 01	0.	0.	0.	0.	6.82-10	3.78-09	7.70-10	3.66-09
1.00 02	0.	0.	0.	0.	2.72-10	1.25-09	6.76-10	1.84-09
1.20 02	0.	0.	0.	0.	9.32-11	2.52-09	7.48-10	4.97-10
1.40 02	0.	0.	0.	0.	4.79-11	2.02-09	1.52-09	1.39-09
1.60 02	0.	0.	0.	0.	0.	2.97-10	1.45-09	8.36-10
1.80 02	0.	0.	0.	0.	0.	0.	2.61-11	5.68-11
	0.	0.	0.	1.16-12	1.92-07	4.87-09	2.78-09	3.88-09
	0.	0.	0.	8.35-13	1.61-08	8.85-10	4.34-10	8.46-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	1.32-09	2.38-08	5.71-10	2.40-09
4.00 01	0.	0.	0.	0.	4.87-08	9.36-09	2.27-09	4.72-10
6.00 01	0.	0.	0.	0.	2.85-08	5.83-09	2.04-09	1.23-09
8.00 01	0.	0.	0.	2.10-11	3.68-10	4.30-09	1.05-09	1.37-09
9.00 01	0.	0.	0.	0.	1.88-11	5.05-09	9.00-10	7.64-10
1.00 02	0.	0.	0.	0.	0.	5.68-10	1.86-09	1.23-09
1.20 02	0.	0.	0.	0.	3.10-13	8.92-10	6.83-10	9.74-10
1.40 02	0.	0.	0.	0.	0.	1.25-10	7.49-10	1.15-09
1.60 02	0.	0.	0.	0.	0.	9.11-11	5.32-10	4.83-10
1.80 02	0.	0.	0.	0.	0.	0.	2.16-09	5.02-12
	0.	0.	0.	6.87-12	1.63-08	7.33-09	2.44-09	2.06-09
	0.	0.	0.	6.87-12	1.07-08	1.78-09	5.00-10	4.01-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	7.34-11	1.53-08	4.37-09	3.39-10
4.00 01	0.	0.	0.	0.	4.38-10	9.95-09	6.78-10	1.30-09
6.00 01	0.	0.	0.	0.	3.90 12	2.40-09	7.05-10	6.32-10
8.00 01	0.	0.	0.	0.	0.	9.12-10	5.44-10	4.54-10
9.00 01	0.	0.	0.	0.	0.	5.91-10	1.18-09	1.02-09
1.00 02	0.	0.	0.	0.	0.	1.35-09	1.39-09	1.53-09
1.20 02	0.	0.	0.	0.	4.21-11	4.86-12	6.69-09	3.31-09
1.40 02	0.	0.	0.	0.	5.61-12	1.23-11	1.18-08	3.43-10
1.60 02	0.	0.	0.	0.	0.	2.34-12	4.86-10	6.96-10
1.80 02	0.	0.	0.	0.	0.	0.	1.04-08	1.14-10
	0.	0.	0.	0.	9.68-11	3.93-09	7.21-09	2.30-09
	0.	0.	0.	0.	6.80-11	1.23-09	2.99-09	8.42-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	1.17-10	7.22-08	3.90-10	1.77-09
4.00 01	0.	0.	0.	0.	0.	3.84-09	5.99-10	2.20-09
6.00 01	0.	0.	0.	0.	0.	6.08-10	8.59-10	3.01-09
8.00 01	0.	0.	0.	0.	0.	2.67-10	5.95-09	2.57-10
9.00 01	0.	0.	0.	0.	0.	0.	5.13-09	1.56-09
1.00 02	0.	0.	0.	0.	2.70-11	2.50-10	7.56-10	5.53-10
1.20 02	0.	0.	0.	0.	0.	7.82-13	7.68-10	2.43 09
1.40 02	0.	0.	0.	0.	1.56-11	6.93-11	6.12-10	1.07-09
1.60 02	0.	0.	0.	0.	0.	5.55-13	2.77-09	6.82-10
1.80 02	0.	0.	0.	0.	0.	0.	3.31-10	1.10-12
	0.	0.	0.	0.	1.59-11	5.33-09	4.23-09	3.00-09
	0.	0.	0.	0.	9.36-12	4.21-09	1.65-09	7.55-10

102013350515 063321373411

AIR SCATTERING 5.40 02 ENERGY 6.00-01 ANGLE 1.35 02 DIST. 3.05 02
7.00 01 1.72 03 0. 0. 5.68 04 5.00 01 1.80 03

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	1.17-07
0.	0.	0.	0.	0.	0.	0.	3.57-08
0.	0.	0.	0.	0.	0.	0.	1.95-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.38-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
5.60-10	7.22-10	3.72-10	1.05-11	5.95-14	7.72-17	1.86-22	7.54-08	1.16-08
1.19-09	6.23-10	2.66-10	1.30-10	1.04-11	6.88-18	2.36-21	2.41-08	1.86-09
1.10-09	1.55-09	3.76-09	8.36-11	4.43-12	3.94-18	1.58-22	2.95-09	4.84-10
1.44-09	7.65-10	5.36-10	4.13-11	1.36-11	3.40-16	6.49-26	8.41-10	2.72-10
1.07-09	1.21-09	3.19-10	4.57-11	7.86-14	7.07-18	5.88-28	2.81-10	6.87-11
7.27-10	3.48-10	1.35-10	5.91-11	2.01-12	1.06-17	2.43-23	1.28-10	2.35-11
1.09-09	1.91-09	2.34-09	1.38-10	2.26-12	5.50-18	2.75-27	1.78-10	4.46-11
6.06-10	3.62-10	1.15-10	1.95-11	5.32-13	1.01-16	1.60-28	1.53-10	4.49-11
7.68-10	4.84-10	3.33-10	7.09-11	1.58-13	2.11-17	2.77-22	9.32-11	2.97-11
1.21-09	4.32-11	1.59-11	6.86-12	2.64-14	6.22-16	5.49-29	2.68-11	1.58-11
2.04-09	1.89-09	2.17-09	1.40-10	8.71-12	1.91-16	5.15-22		
3.58-10	4.93-10	1.09-09	4.82-11	3.45-12	1.14-16	4.14-22	9.99-09	8.08-10

PHI 45 TO 90 DEGREES

1.58-09	5.75-10	1.18-10	2.20-11	1.59-13	1.88-17	7.42-29	8.84-10	3.23-10
8.17-10	5.12-10	8.08-11	3.83-11	9.01-13	1.02-14	3.05-25	2.82-09	2.23-09
7.32-10	1.16-09	2.76-10	5.66-11	5.77-12	1.72-15	7.18-23	1.72-09	1.43-09
3.12-10	1.23-09	1.46-09	1.13-10	3.65-12	1.87-15	6.03-26	2.41-10	7.20-11
8.67-10	6.47-10	2.94-10	1.76-11	9.72-15	1.36-17	3.22-23	2.21-10	1.09-10
5.04-10	6.77-11	9.39-11	1.06-10	2.40-13	2.39-14	3.76-27	1.10-10	3.79-11
1.48-09	7.99-10	2.17-10	7.12-12	6.95-13	3.29-15	3.31-22	1.07-10	2.50-11
8.88-10	6.66-11	2.25-10	2.25-11	1.48-13	3.45-17	4.91-22	7.01-11	2.19-11
1.05-10	1.26-10	8.94-11	8.61-11	5.83-13	3.98-15	1.58-23	3.32-11	1.00-11
3.67-10	1.31-09	1.22-09	3.07-12	6.68-14	3.51-18	2.35-24	9.75-11	4.65-11
1.53-09	1.34-09	8.58-10	1.05-10	3.31-12	8.76-15	2.66-22		
2.76-10	3.06-10	3.26-10	4.24-11	1.93-12	4.74-15	2.42-22	1.20-09	5.45-10

PHI 90 TO 135 DEGREES

4.17-10	9.07-09	1.63-10	5.54-11	2.89-13	2.85-15	3.52-24	7.01-10	3.56-10
1.17-09	3.38-10	2.55-10	2.96-11	1.20-12	2.70-18	6.15-28	3.96-10	1.66-10
6.58-10	8.12-10	3.96-10	3.77-11	1.55-12	1.58-17	1.08-21	1.31-10	4.15-11
4.11-10	1.73-09	5.21-10	6.45-11	1.57-13	1.16-17	7.87-20	8.49-11	1.68-11
1.21-09	1.78-09	6.33-10	4.85-12	2.08-12	3.85-16	6.32-23	1.22-10	3.84-11
1.20-09	1.05-10	7.17-11	1.79-11	2.12-12	8.32-16	1.23-31	1.39-10	5.63-11
6.89-10	2.28-09	8.59-11	9.89-11	3.23-13	8.09-18	5.10-21	3.07-10	1.37-10
4.33-10	9.72-10	1.30-10	1.33-11	3.62-13	8.39-19	6.46-24	3.80-10	2.93-10
5.39-10	2.49-09	5.08-11	6.86-12	1.06-13	3.35-18	2.58-23	6.48-11	2.80-11
7.80-10	4.61-11	2.60-11	5.91-12	3.18-13	7.25-16	4.04-22	3.29-10	2.17-10
1.44-09	3.15-09	5.25-10	8.09-11	1.66-12	4.39-16	2.77-20		
3.38-10	1.16-09	1.37-10	2.75-11	6.42-13	2.32-16	2.55-20	4.51-10	1.01-10

PHI 135 TO 180 DEGREES

2.37-10	1.38-09	4.81-11	1.18-11	6.95-13	4.13-19	2.46-26	2.24-09	2.09-09
1.12-09	4.33-10	1.10-10	1.64-11	1.07-11	2.14-17	1.62-18	2.05-10	7.56-11
1.30-10	3.38-10	9.26-11	2.09-10	2.79-11	9.21-15	1.28-22	1.13-10	3.49-11
4.26-10	3.96-10	1.31-10	7.49-11	1.91-12	2.33-16	1.40-23	2.06-10	1.29-10
8.34-10	1.70-09	2.33-10	4.88-11	6.74-14	6.22-17	6.62-23	2.21-10	1.34-10
3.85-10	6.39-11	6.71-11	8.36-12	1.46-13	1.91-17	1.20-23	5.16-11	1.70-11
2.67-10	3.51-10	2.51-10	2.15-10	3.08-13	1.01-17	3.06-25	8.90-11	3.05-11
1.26-09	1.50-10	2.64-10	1.30-11	1.46-13	4.47-17	2.94-25	7.21-11	2.58-11
3.70-10	1.71-10	2.59-10	1.62-11	2.28-12	2.31-15	3.66-21	1.09-10	6.59-11
4.08-10	2.88-10	4.92-10	1.85-11	1.20-12	1.01-15	1.29-28	2.60-11	1.14-11
1.12-09	8.86-10	3.68-10	1.71-10	1.06-11	3.02-15	2.82-19		
2.57-10	2.47-10	8.32-11	7.70-11	7.48-12	2.11-15	2.81-19	3.84-10	1.39-10
							1.89-08	1.68-09

AIR SCATTERING 5.41 02 ENERGY 6.00-01 ANGLE 1.80 02 DIST. 3.05 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	0.	0.	0.	4.11-06	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	2.48-07	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	0.	0.	0.	2.65-06	7.98-10	1.41-09	1.32-09
4.00 01	0.	0.	0.	8.52-12	4.70-09	4.46-09	4.11-09	6.13-09
6.00 01	0.	0.	0.	0.	8.71-10	4.00-09	1.32-09	1.48-09
8.00 01	0.	0.	0.	0.	5.78-12	3.38-09	3.94-09	1.25-09
9.00 01	0.	0.	0.	0.	0.	8.51-10	6.06-10	1.11-09
1.00 02	0.	0.	0.	0.	0.	3.87-10	7.69-10	2.37-09
1.20 02	0.	0.	0.	0.	5.26-12	3.06-11	2.02-09	1.14-09
1.40 02	0.	0.	0.	0.	0.	3.57-10	1.30-08	4.89-10
1.60 02	0.	0.	0.	0.	0.	0.	7.04-10	5.08-09
1.80 02	0.	0.	0.	0.	0.	0.	9.98-09	4.89-09
	0.	0.	0.	1.48-12	1.61-07	3.31-09	7.51-09	4.23-09
	0.	0.	0.	1.38-12	1.39-08	8.17-10	3.26-09	1.25-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	9.91-12	2.12-08	1.42-09	2.53-09	3.38-09
4.00 01	0.	0.	0.	0.	5.74-09	4.84-09	7.86-10	1.72-09
6.00 01	0.	0.	0.	0.	2.56-10	7.35-09	1.09-09	1.26-09
8.00 01	0.	0.	0.	0.	8.60-13	1.27-09	8.90-10	7.68-10
9.00 01	0.	0.	0.	0.	3.61-11	1.31-09	7.52-10	7.41-10
1.00 02	0.	0.	0.	0.	0.	3.34-09	2.16-09	4.64-10
1.20 02	0.	0.	0.	0.	0.	2.89-10	1.22-09	5.14-10
1.40 02	0.	0.	0.	0.	0.	0.	2.30-09	4.03-10
1.60 02	0.	0.	0.	0.	0.	2.21-11	1.80-09	2.52-10
1.80 02	0.	0.	0.	0.	0.	0.	1.37-09	1.94-09
	0.	0.	0.	5.98-13	2.35-09	4.20-09	2.78-09	1.73-09
	0.	0.	0.	5.98-13	7.10-10	1.45-09	4.93-10	2.64-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	9.11-08	1.60-09	3.12-09	2.76-09
4.00 01	0.	0.	0.	0.	8.57-09	9.70-09	9.35-10	3.94-09
6.00 01	0.	0.	0.	1.41-10	5.76-10	3.03-09	1.14-09	2.12-09
8.00 01	0.	0.	0.	0.	6.54-13	3.40-09	2.21-09	3.86-10
9.00 01	0.	0.	0.	0.	0.	7.66-10	8.75-11	4.25-09
1.00 02	0.	0.	0.	7.34-12	3.30-11	2.63-10	6.72-10	1.02-09
1.20 02	0.	0.	0.	0.	0.	1.06-11	1.69-09	3.03-10
1.40 02	0.	0.	0.	0.	3.93-11	6.54-12	9.10-10	6.23-10
1.60 02	0.	0.	0.	0.	2.26-11	7.18-11	7.91-10	4.11-10
1.80 02	0.	0.	0.	0.	0.	8.37-14	2.94-10	7.07-11
	0.	0.	0.	3.87-11	7.16-09	3.89-09	2.46-09	2.80-09
	0.	0.	0.	3.12-11	2.31-09	1.13-09	5.23-10	8.87-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	5.90-08	1.05-09	8.28-10	6.59-10
4.00 01	0.	0.	0.	0.	5.61-09	1.49-09	3.54-09	9.47-10
6.00 01	0.	0.	0.	0.	2.18-09	2.96-09	3.06-09	1.32-09
8.00 01	0.	0.	0.	1.15-11	7.12-12	5.58-09	1.25-09	8.33-10
9.00 01	0.	0.	0.	2.13-12	1.48-11	4.15-10	1.10-09	1.66-10
1.00 02	0.	0.	0.	0.	5.55-12	1.06-09	3.65-10	6.99-10
1.20 02	0.	0.	0.	0.	0.	1.22-10	2.58-09	8.10-10
1.40 02	0.	0.	0.	0.	0.	1.08-11	6.72-10	5.00-10
1.60 02	0.	0.	0.	0.	0.	2.08-10	2.88-10	1.65-09
1.80 02	0.	0.	0.	0.	0.	0.	2.37-08	3.42-11
	0.	0.	0.	4.13-12	5.12-09	3.27-09	4.65-09	1.66-09
	0.	0.	0.	3.78-12	1.35-09	7.02-10	1.74-09	3.45-10

063321373411 367611550155

AIR SCATTERING 5.41 02 ENERGY 6.00-01 ANGLE 1.80 02 DIST. 3.05 02
6.50 01 1.72 03 0. 0. 5.68 04 5.00 01 1.80 03

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	2.06-07
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.24-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
5.22-10	4.17-10	6.66-11	6.32-12	1.82-15	5.63-16	8.88-28	1.32-07	1.15-08
2.66-09	1.74-09	6.89-10	7.61-11	1.88-14	5.42-16	1.52-24	6.93-10	2.74-10
9.11-10	3.35-10	2.12-09	3.57-11	3.60-13	1.39-17	6.84-22	2.76-10	6.33-11
5.33-09	1.20-09	1.40-10	2.06-11	9.96-13	1.36-16	9.07-21	3.65-10	1.29-10
1.39-09	2.49-09	9.28-11	8.55-11	1.03-13	1.47-17	4.95-27	1.20-10	4.19-11
3.31-10	7.40-10	1.73-10	2.60-12	1.31-14	1.27-15	2.38-21	9.79-11	3.98-11
6.85-10	4.68-10	1.60-10	2.32-11	1.80-12	3.69-17	1.88-27	1.05-10	3.29-11
1.09-09	6.81-10	3.31-11	7.44-12	5.32-14	1.05-15	1.50-28	4.38-10	3.49-10
2.71-09	4.11-10	1.21-10	3.17-12	1.26-13	2.22-17	2.39-28	1.82-10	9.43-11
5.98-10	3.01-10	3.88-11	4.50-14	1.39-13	1.37-18	9.94-27	4.13-10	2.66-10
3.80-09	1.79-09	8.64-10	5.52-11	1.08-12	6.94-16	3.55-21		
1.42-09	5.10-10	4.53-10	1.68-11	6.60-13	3.28-19	3.16-21	8.55-09	7.14-10

PHI 45 TO 90 DEGREES

6.80-09	4.37-09	6.55-11	1.23-11	8.40-13	1.91-19	7.58-33	1.43-09	3.93-10
2.20-09	5.83-10	6.20-09	4.08-11	3.26-13	8.00-16	2.78-26	6.02-10	1.92-10
5.43-10	7.06-10	1.81-10	1.00-10	1.30-12	4.66-17	1.57-24	3.12-10	1.48-10
6.45-10	6.93-10	1.72-10	1.19-10	1.82-13	1.02-17	3.88-25	1.03-10	2.16-11
9.73-10	5.70-10	1.29-10	1.44-11	1.68-13	7.01-17	5.08-22	1.05-10	2.25-11
1.96-09	1.10-09	2.98-10	1.75-11	2.19-13	7.43-18	8.22-23	2.28-10	8.94-11
9.12-10	6.50-10	2.43-10	3.73-10	1.72-13	4.28-17	1.48-23	8.53-11	1.90-11
8.43-10	1.52-10	3.80-10	1.44-11	4.12-12	7.92-17	2.35-25	9.93-11	3.15-11
8.29-10	2.67-10	2.87-10	5.44-12	1.92-11	3.21-16	1.02-26	8.20-11	3.81-11
3.31-10	1.77-10	3.74-11	6.21-13	7.07-14	5.96-18	9.88-27	8.88-11	4.89-11
2.34-09	1.38-09	1.49-09	2.05-10	5.07-12	2.59-16	1.08-22		
5.61-10	3.73-10	1.07-09	1.17-10	4.32-12	1.43-16	8.95-23	4.39-10	6.31-11

PHI 90 TO 135 DEGREES

8.48-10	4.58-10	7.52-10	5.85-11	1.11-13	4.84-20	2.93-26	4.78-09	1.80-09
4.86-10	2.90-10	1.43-09	1.83-10	2.22-13	4.86-17	7.98-24	8.55-10	2.95-10
1.23-09	5.55-10	9.29-10	6.10-11	3.37-13	1.19-16	7.58-26	2.43-10	4.44-11
1.02-09	1.87-09	3.86-09	5.72-11	5.74-14	1.49-16	5.69-27	2.54-10	6.38-11
6.78-09	6.79-10	4.30-10	3.82-10	4.89-13	3.59-18	2.62-25	2.60-10	1.50-10
1.42-09	4.91-09	7.33-10	1.44-10	1.19-12	4.58-18	7.74-26	1.36-10	4.34-11
3.77-09	4.95-10	2.96-10	4.03-11	1.06-13	1.63-17	1.83-24	1.41-10	6.09-11
2.85-10	2.89-09	3.14-10	4.74-11	2.41-13	4.45-16	1.00-26	8.09-11	2.78-11
3.86-10	2.55-10	2.90-10	1.42-11	8.20-14	2.62-19	7.10-27	4.85-11	1.38-11
2.32-10	1.05-10	6.84-12	1.73-13	1.70-14	2.97-19	3.14-26	1.60-11	9.08-12
3.61-09	2.79-09	2.23-09	1.90-10	5.59-13	2.14-16	2.07-24		
1.53-09	9.41-10	8.57-10	7.33-11	1.83-13	1.24-16	1.47-24	7.30-10	1.35-10

PHI 135 TO 180 DEGREES

8.15-10	4.84-10	4.09-10	8.70-12	1.01-12	1.38-16	4.13-24	3.05-09	1.02-09
4.35-10	4.15-10	3.29-10	8.00-12	2.04-13	7.54-16	9.69-24	4.67-10	1.38-10
8.19-10	3.76-09	1.75-10	5.35-11	3.27-13	6.32-18	6.01-23	3.72-10	1.52-10
1.98-09	4.74-10	4.99-10	5.40-11	3.15-12	3.95-15	6.66-24	2.72-10	6.30-11
7.60-10	5.13-10	1.05-09	7.32-12	1.19-11	7.55-19	5.12-25	8.06-11	2.80-11
1.96-09	5.34-10	7.80-11	5.51-11	5.51-12	5.58-15	4.20-21	1.03-10	4.33-11
2.86-10	1.06-09	5.70-10	7.52-11	4.95-11	1.15-14	8.72-22	1.20-10	4.45-11
1.31-09	6.09-10	3.72-10	7.23-11	2.57-12	1.57-15	1.39-20	6.69-11	2.00-11
1.97-09	4.65-10	1.37-11	2.98-12	1.96-14	4.31-18	1.14-23	9.21-11	2.79-11
1.80-10	4.88-11	5.59-11	9.65-14	1.16-14	2.37-17	2.45-26	7.17-10	6.95-10
2.25-09	2.03-09	7.78-10	8.89-11	2.11-11	6.58-15	4.74-21		
5.31-10	9.16-10	3.53-10	3.33-11	1.63-11	4.70-15	4.05-21	6.01-10	9.64-11
							1.62-08	1.22-09

d_o, Source-Detector Separation Distance = 5 ft

AIR SCATTERING 6.00 02 ENERGY 1.20 01 ANGLE 1.00 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	9.64-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	7.35-06
	5.81-07	0.	0.	0.	0.	0.	0.	4.44-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	6.14-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	3.92-16	6.29-14
1.80 02	0.	0.	0.	0.	0.	0.	9.94-17	4.68-06
	3.70-07	0.	0.	0.	0.	0.	7.41-17	2.82-07
	4.67-07	0.	0.	0.	0.	0.	6.83-17	2.32-07

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.70-15
1.60 02	0.	0.	0.	0.	0.	0.	1.23-16	1.45-12
1.80 02	0.	0.	0.	0.	0.	0.	1.73-15	8.82-13
	0.	0.	0.	0.	0.	0.	1.26-16	3.06-13
	0.	0.	0.	0.	0.	0.	1.06-16	1.60-13

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.33-14
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.67-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.16-12
1.80 02	0.	0.	0.	0.	0.	0.	5.25-11	6.75-12
	0.	0.	0.	0.	0.	0.	3.17-12	1.24-12
	0.	0.	0.	0.	0.	0.	3.17-12	5.05-13

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.18-12
1.60 02	0.	0.	0.	0.	0.	0.	1.03-13	1.64-12
1.80 02	0.	0.	0.	0.	0.	0.	9.58-15	9.38-12
	0.	0.	0.	0.	0.	0.	1.84-14	1.70-12
	0.	0.	0.	0.	0.	0.	1.78-14	9.31-13

071355427125 1670303056

AIR SCATTERING 6.00 02 ENERGY 1.20 01 ANGLE 1.00 DIST. 1.52 02

1.40 01	1.78 03	0.	0.	4.49 04	5.00 01	1.80 03	

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02	
0.	0.	0.	0.	0.	0.	0.	4.82-05
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.10-06
0.	0.	0.	0.	0.	0.	0.	2.97-06

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	1.20-11	5.34-12	4.11-12	4.33-12	1.11-13	5.08-29	3.07-05	2.21-05
5.74-15	5.99-12	3.60-11	3.06-11	8.29-12	4.72-14	1.69-22	2.51-12	1.35-12
0.	1.97-11	1.23-11	1.79-11	2.35-11	3.04-14	2.01-23	2.40-12	7.89-13
0.	4.42-11	6.74-11	1.31-10	5.59-12	3.16-14	1.05-21	8.32-12	3.20-12
1.03-14	4.79-11	9.57-11	2.93-11	1.91-12	2.16-15	5.32-26	5.85-12	2.80-12
1.54-11	1.03-10	1.87-11	1.80-11	3.39-12	3.62-15	2.80-26	8.70-12	4.98-12
1.75-10	1.93-10	5.06-11	3.45-11	2.15-11	1.76-14	1.50-26	3.03-11	2.23-11
1.39-10	2.98-11	5.65-11	3.81-11	4.66-11	7.03-14	6.66-21	1.80-11	7.55-12
4.23-10	6.69-11	4.61-11	8.50-11	2.91-10	3.76-15	1.14-22	5.02-11	2.58-11
1.50-09	9.49-11	3.28-10	1.56-10	1.05-10	2.54-15	1.17-24	7.02-07	5.77-07
2.61-10	1.32-10	1.11-10	1.07-10	8.70-11	5.96-14	2.17-21		
9.24-11	5.65-11	3.08-11	4.19-11	5.30-11	1.88-14	1.80-21	1.89-06	1.34-06

PHI 45 TO 90 DEGREES

0.	2.05-13	0.	5.85-11	3.54-12	1.49-13	1.95-28	1.47-12	1.18-12
0.	1.78-11	1.84-11	7.02-11	3.59-11	9.69-16	5.65-25	3.96-12	1.66-12
1.01-15	1.35-11	3.46-10	5.81-10	1.17-09	1.48-14	1.49-29	4.47-11	2.66-11
3.05-13	6.05-11	2.80-11	3.87-11	4.13-12	6.22-16	7.57-23	5.66-12	1.74-12
2.65-12	1.63-09	4.43-10	3.30-10	8.42-12	2.15-13	4.33-23	1.22-10	9.70-11
2.88-13	1.10-10	4.86-11	1.12-10	8.59-12	6.47-14	9.05-22	1.12-11	4.66-12
6.14-11	2.86-11	5.52-11	1.01-09	5.36-11	8.78-15	5.11-19	3.42-11	2.39-11
4.00-11	4.44-11	1.07-10	7.83-11	7.01-11	6.44-14	3.83-24	1.30-11	3.41-12
5.01-09	4.51-11	2.11-09	5.17-11	3.51-11	1.64-14	9.89-23	5.32-10	3.38-10
1.13-09	3.35-10	8.54-11	1.92-10	7.63-11	1.85-13	3.57-26	1.31-10	5.62-11
9.70-10	3.78-10	6.07-10	6.30-10	3.68-10	9.59-14	1.67-19		
6.41-10	2.79-10	3.52-10	3.58-10	3.12-10	4.41-14	1.67-19	1.53-10	6.26-11

PHI 90 TO 135 DEGREES

0.	7.70-10	4.22-11	4.17-12	4.27-14	2.03-14	4.74-27	4.78-11	3.43-11
0.	4.81-11	6.01-12	1.87-11	7.57-13	1.63-14	1.48-26	3.56-12	2.65-12
0.	8.54-11	5.86-12	3.02-11	2.81-12	3.88-14	1.71-26	6.10-12	2.29-12
3.65-15	2.58-11	3.48-11	2.61-11	8.54-12	2.20-13	8.49-24	3.56-12	1.19-12
6.73-15	8.25-11	7.87-12	1.83-10	1.76-11	4.32-14	5.51-25	9.88-12	4.03-12
4.47-12	4.56-10	6.70-11	1.30-11	5.06-12	1.70-14	9.64-25	3.06-11	2.47-11
5.06-11	6.47-11	5.10-11	5.94-11	1.88-11	3.11-13	3.33-22	1.20-11	3.79-12
4.68-11	9.83-11	5.65-11	6.58-11	4.75-12	6.38-13	3.15-20	1.41-11	3.67-12
2.01-10	4.97-11	5.75-10	1.38-10	2.99-11	3.48-14	4.25-25	4.58-11	1.39-11
2.61-09	2.07-10	9.90-11	1.84-10	1.98-11	8.90-15	5.60-23	2.70-10	1.61-10
2.22-10	2.48-10	1.67-10	1.26-10	2.14-11	3.75-13	8.50-21		
1.08-10	8.53-11	6.17-11	3.28-11	6.43-12	2.69-13	8.46-21	4.52-11	1.16-11

PHI 135 TO 180 DEGREES

0.	2.63-10	0.	8.80-12	6.82-12	7.72-17	6.54-28	1.61-11	1.15-11
0.	1.00-10	4.37-12	1.62-11	3.49-12	2.85-16	1.53-22	6.63-12	2.98-12
0.	9.79-11	1.97-11	1.38-11	3.09-11	8.22-16	1.93-23	7.38-12	4.54-12
0.	8.87-11	3.51-11	2.17-11	8.62-12	2.61-13	7.81-24	7.24-12	2.81-12
2.01-13	9.19-11	7.98-11	6.18-11	1.93-11	1.07-13	1.56-20	1.02-11	4.52-12
1.12-11	3.59-11	4.84-12	2.95-11	1.12-11	1.82-13	1.75-22	4.22-12	1.91-12
1.19-10	3.57-11	1.03-10	3.45-11	1.49-11	6.33-13	4.03-22	1.76-11	1.01-11
2.41-10	3.46-10	4.45-11	2.46-11	9.97-12	7.59-13	2.75-21	4.53-11	2.25-11
1.29-09	1.73-10	2.80-11	8.41-11	2.94-11	1.50-14	6.80-21	1.30-10	9.37-11
4.32-09	6.52-11	2.21-11	2.03-10	5.76-11	1.38-14	1.34-23	4.00-10	2.91-10
5.90-10	2.48-10	8.38-11	7.46-11	3.34-11	5.47-13	4.83-21		
2.71-10	8.70-11	2.52-11	1.71-11	1.23-11	3.86-13	3.05-21	7.35-11	2.81-11
							2.97-06	2.10-06

AIR SCATTERING 6.01 02 ENERGY 1.20 01 ANGLE 1.50 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.9T-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	1.59-07	1.25-07	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	7.86-08	1.16-07	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	1.19-07	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.12-07
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.01-07
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.18-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	5.84-08
	0.	9.58-09	7.55-09	1.37-08	2.01-08	0.	3.90-08	8.77-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	1.01-07	7.97-08	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	5.01-08	7.38-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	7.60-08	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.35-07
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.15-17
1.40 02	0.	0.	0.	0.	0.	0.	0.	6.42-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	7.53-08
1.80 02	0.	0.	0.	0.	0.	0.	1.25-13	3.73-08
	0.	6.10-09	4.81-09	8.69-09	1.28-08	0.	2.48-08	5.58-08
	0.	4.31-09	4.80-09	8.69-09	1.28-08	0.	2.48-08	2.70-08

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.39-12
1.60 02	0.	0.	0.	0.	0.	0.	2.06-14	7.20-12
1.80 02	0.	0.	0.	0.	0.	0.	7.93-12	1.08-11
	0.	0.	0.	0.	0.	0.	4.82-13	2.27-12
	0.	0.	0.	0.	0.	0.	4.66-13	9.51-13

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.13-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.81-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.74-11
1.80 02	0.	0.	0.	0.	0.	0.	7.47-14	2.75-13
	0.	0.	0.	0.	0.	0.	4.51-15	3.59-12
	0.	0.	0.	0.	0.	0.	4.02-15	2.91-12

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.71-13
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	9.25-13	4.59-15
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.89-12
1.80 02	0.	0.	0.	0.	0.	0.	1.41-11	9.01-13
	0.	0.	0.	0.	0.	0.	1.10-12	4.49-13
	0.	0.	0.	0.	0.	0.	8.87-13	2.58-13

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AIR SCATTERING 6.01 02 ENERGY 1.20 01 ANGLE 1.50 01 DIST. 1.52 02
2.40 01 1.77 03 0. 0. 4.51 04 5.00 01 1.80 03

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02	
0.	0.	0.	0.	0.	0.	0.	6.16-07
0.	0.	0.	0.	0.	0.	0.	1.54-07
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	3.10-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	3.18-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.51-08
0.	0.	0.	0.	0.	0.	0.	1.77-08
0.	0.	0.	0.	0.	0.	0.	8.75-09
0.	0.	0.	0.	0.	0.	0.	
							8.72-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	5.00-11	8.55-12	1.31-11	6.24-11	2.48-16	3.68-28	3.92-07	2.27-07
0.	8.80-11	9.31-11	6.73-11	3.60-11	8.13-15	7.04-28	9.80-08	6.93-08
0.	1.01-10	1.27-11	9.07-11	4.39-12	1.10-14	1.74-25	8.76-12	3.52-12
8.85-12	5.11-11	3.57-11	2.83-10	1.18-11	5.61-12	5.98-23	1.98-08	1.98-08
1.08-10	3.69-10	1.96-09	1.96-10	1.38-10	9.12-14	6.11-21	1.09-10	7.24-11
5.16-11	1.39-11	9.95-12	4.35-10	1.47-11	1.10-13	1.22-21	2.03-08	2.02-08
6.94-11	1.16-10	3.15-11	5.67-11	2.12-11	1.81-13	4.12-19	1.60-11	6.49-12
1.63-10	9.24-11	2.38-10	4.06-11	7.16-12	1.90-12	3.51-18	9.66-09	7.12-09
1.06-09	3.03-10	1.04-09	8.65-10	5.97-11	1.67-12	1.03-25	1.15-08	4.18-09
1.32-09	4.08-10	8.72-11	2.17-11	1.22-11	4.81-13	1.09-20	5.73-09	8.49-10
3.61-10	4.56-10	6.33-10	4.19-10	6.15-11	2.75-12	1.07-18		
7.37-11	8.33-11	3.66-10	1.49-10	2.00-11	1.99-12	9.93-19	5.56-08	1.97-08

PHI 45 TO 90 DEGREES

0.	2.91-11	6.04-10	1.20-12	1.68-12	6.71-16	3.81-31	2.35-11	1.49-11
0.	1.03-11	1.87-11	3.52-10	1.60-12	1.34-15	7.52-23	9.68-12	8.00-12
0.	6.01-11	1.21-10	5.79-11	1.12-10	1.71-15	1.17-19	1.10-11	4.88-12
9.54-13	7.69-11	6.80-11	5.46-11	1.53-11	1.79-13	2.17-22	8.69-12	3.36-12
1.17-14	4.83-11	2.68-10	3.83-11	6.02-12	3.22-12	3.13-23	1.36-11	8.54-12
1.88-12	4.50-10	4.73-11	3.12-10	9.58-12	1.04-14	6.87-24	3.65-11	2.04-11
1.05-10	7.64-11	6.74-11	1.45-10	7.06-11	3.13-13	9.04-21	2.10-11	7.29-12
1.88-10	4.99-11	6.91-11	6.62-11	5.86-11	1.84-14	7.28-25	2.51-11	9.06-12
1.07-10	6.82-11	7.04-10	5.98-11	1.02-10	4.56-14	7.28-20	4.31-11	1.93-11
5.01-10	4.61-11	1.10-10	9.18-11	7.02-12	1.65-11	3.73-18	5.79-11	3.70-11
1.34-10	1.84-10	3.18-10	2.36-10	9.48-11	1.73-12	2.72-19		
4.23-11	6.04-11	1.14-10	8.72-11	3.99-11	1.14-12	2.39-19	4.21-11	7.40-12

PHI 90 TO 135 DEGREES

0.	1.44-10	4.70-11	3.51-11	1.90-10	3.13-19	0.	1.40-11	9.29-12
0.	2.23-11	2.79-12	2.82-11	2.09-12	2.73-14	2.30-23	2.15-12	9.29-13
0.	2.17-09	2.04-11	4.65-11	2.76-13	2.80-13	1.30-20	1.32-10	1.19-10
0.	1.40-09	5.06-11	1.23-11	8.52-11	6.12-14	3.06-22	8.76-11	8.21-11
1.54-12	5.99-10	4.87-11	1.30-10	5.03-11	3.93-13	1.11-25	4.17-11	3.56-11
0.	8.82-11	1.82-10	5.09-11	7.23-12	2.58-14	5.19-20	1.32-11	5.29-12
5.68-12	3.93-11	4.43-11	3.18-11	9.12-12	1.08-11	4.74-26	5.49-12	1.71-12
3.02-10	1.28-10	2.83-10	7.50-11	1.28-11	2.89-12	8.81-20	4.74-11	2.38-11
6.78-10	2.40-11	2.23-11	3.07-11	1.15-11	1.48-12	2.24-23	6.68-11	5.69-11
1.85-10	8.12-11	2.03-11	6.72-11	2.22-11	7.56-13	2.39-22	2.42-11	8.74-12
2.11-10	1.22-09	1.60-10	9.45-11	5.94-11	4.78-12	3.60-20		
1.26-10	7.00-10	7.15-11	2.80-11	2.22-11	4.30-12	2.53-20	1.02-10	4.36-11

PHI 135 TO 180 DEGREES

0.	4.33-10	2.79-13	7.22-12	3.68-13	1.23-18	1.69-20	2.62-11	1.81-11
0.	9.52-09	2.22-13	3.00-11	6.53-12	1.99-14	6.13-19	5.72-10	5.67-10
0.	4.34-11	2.95-11	1.58-11	7.28-12	2.63-13	1.99-22	4.16-12	2.00-12
0.	1.04-10	1.59-11	7.30-11	1.94-11	1.16-14	1.25-21	8.84-12	6.10-12
1.31-11	3.70-11	1.83-10	8.10-11	2.14-11	3.46-14	1.08-21	1.23-11	8.51-12
1.92-13	8.28-11	6.57-11	1.65-11	3.10-11	1.34-13	6.57-21	8.27-12	3.35-12
1.03-11	9.18-11	5.70-11	1.53-10	7.51-12	4.10-13	4.80-28	1.23-11	4.11-12
1.45-10	5.15-11	1.22-10	6.24-11	4.75-11	7.00-13	3.18-20	2.30-11	1.02-11
1.14-10	3.25-11	3.15-11	8.30-11	1.25-11	1.82-14	9.78-21	1.58-11	5.04-12
1.22-10	2.61-11	1.19-10	1.49-10	2.91-10	1.16-14	5.78-25	2.86-11	9.32-12
7.14-11	1.80-09	1.20-10	1.41-10	5.33-11	4.30-13	1.19-19		
5.13-11	1.64-09	4.04-11	5.46-11	1.92-11	3.24-13	1.08-19	1.23-10	9.86-11
							8.77-08	3.10-08

AIR SCATTERING 6.02 02 ENERGY 1.20 01 ANGLE 3.00 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	6.04-08	9.27-08	0.	0.	0.
4.00 01	0.	0.	0.	0.	3.12-08	4.24-08	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	3.97-08	0.
8.00 01	0.	0.	0.	0.	0.	0.	2.48-08	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.66-08
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.84-08
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.11-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.39-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.06-08
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	3.64-09	1.10-08	7.37-09	1.86-08	3.93-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	3.84-08	5.90-08	0.	0.	0.
4.00 01	0.	0.	0.	0.	1.99-08	2.70-08	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	2.53-08	0.
8.00 01	0.	0.	0.	0.	0.	0.	1.58-08	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.61-08
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.45-08
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.98-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.16-08
1.60 02	0.	0.	0.	0.	0.	0.	8.45-11	1.31-08
1.80 02	0.	0.	0.	0.	0.	0.	1.99-12	1.00-11
	0.	0.	0.	2.32-09	7.01-09	4.69-09	1.19-08	2.50-08
	0.	0.	0.	2.32-09	4.95-09	4.69-09	8.46-09	8.69-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	9.15-12	3.73-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.75-11
	0.	0.	0.	0.	0.	0.	1.59-12	1.12-12
	0.	0.	0.	0.	0.	0.	1.56-12	8.83-13

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	6.82-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.64-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.81-15
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.95-12
	0.	0.	0.	0.	0.	0.	0.	3.11-12
	0.	0.	0.	0.	0.	0.	0.	2.91-12

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	3.16-13
1.80 02	0.	0.	0.	0.	0.	0.	1.01-11	6.95-12
	0.	0.	0.	0.	0.	0.	6.09-13	4.74-13
	0.	0.	0.	0.	0.	0.	6.08-13	4.08-13

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AIR SCATTERING 6.02 02 ENERGY 1.20 01 ANGLE 3.00 01 DIST. 1.52 02
1.50 01 1.78 03 0. 0. 4.52 04 5.00 01 1.80 03

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02	
0.	0.	0.	0.	0.	0.	0.	1.21-07
0.	0.	0.	0.	0.	0.	0.	3.89-08
0.	0.	0.	0.	0.	0.	0.	1.03-08
0.	0.	0.	0.	0.	0.	0.	6.44-09
0.	0.	0.	0.	0.	0.	0.	8.49-09
0.	0.	0.	0.	0.	0.	0.	5.76-09
0.	0.	0.	0.	0.	0.	0.	4.67-09
0.	0.	0.	0.	0.	0.	0.	5.08-09
0.	0.	0.	0.	0.	0.	0.	3.09-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							2.48-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	4.62-10	1.49-11	1.39-12	5.38-12	1.17-14	2.74-33	7.68-08	5.43-08
0.	1.24-08	3.38-11	5.70-10	9.77-12	2.34-14	7.55-19	2.56-08	1.76-08
0.	6.47-11	1.25-10	4.25-11	3.60-11	6.63-14	1.12-27	6.58-09	6.57-09
2.62-11	3.03-10	8.39-11	6.08-11	6.28-12	3.46-14	6.33-24	4.12-09	4.10-09
2.63-09	8.69-12	2.45-11	3.08-11	2.90-12	2.41-13	6.51-22	5.65-09	5.41-09
7.23-11	4.54-11	7.13-11	4.24-11	9.13-12	1.25-13	7.57-23	3.68-09	3.67-09
1.97-10	4.58-11	5.21-11	8.47-11	2.11-10	7.59-14	4.93-23	3.00-09	1.78-09
2.38-09	9.11-11	9.79-11	5.24-11	2.77-10	8.51-11	4.89-24	3.46-09	1.13-09
1.01-09	5.63-10	8.42-11	9.46-11	1.21-09	2.44-10	4.42-25	2.14-09	3.06-10
4.82-10	2.14-10	1.22-10	7.79-11	3.10-12	1.91-15	1.82-23	6.46-11	2.04-11
1.38-09	2.46-09	1.49-10	2.08-10	3.69-10	6.51-11	1.31-19		
7.31-10	2.16-09	3.77-11	8.00-11	2.85-10	6.49-11	1.31-19	1.61-08	5.15-09

PHI 45 TO 90 DEGREES

0.	3.76-13	2.86-10	5.22-10	2.69-10	5.21-15	1.32-29	2.69-11	1.76-11
0.	6.31-10	1.20-11	1.06-11	1.75-11	9.26-16	7.59-22	3.88-11	3.66-11
9.29-13	2.31-10	3.50-11	2.56-11	5.67-11	7.58-13	1.01-24	1.67-11	8.89-12
1.14-11	1.78-10	1.65-11	2.55-11	1.36-11	9.17-14	3.76-25	1.31-11	8.80-12
1.54-11	1.77-10	8.38-11	1.13-11	9.74-10	4.00-13	7.14-21	2.99-11	1.74-11
1.69-10	1.21-11	1.58-11	6.28-11	1.05-11	3.93-13	4.51-23	1.81-11	1.31-11
6.28-11	3.40-11	1.63-10	1.95-11	1.14-11	2.68-14	7.31-23	1.42-11	5.16-12
5.11-11	6.06-11	3.86-11	1.44-10	8.45-12	2.52-14	1.64-21	1.32-11	2.77-12
1.42-09	7.83-11	1.98-10	7.05-11	6.03-11	1.36-12	2.68-23	1.45-10	1.07-10
1.23-10	5.44-11	2.75-10	2.62-10	5.58-11	3.46-15	3.54-27	3.40-11	9.62-12
3.24-10	3.06-10	1.66-10	1.34-10	2.30-10	6.22-13	1.85-21		
2.08-10	1.26-10	4.82-11	3.67-11	1.68-10	3.19-13	1.32-21	6.08-11	2.06-11

PHI 90 TO 135 DEGREES

0.	2.15-09	3.20-09	6.16-12	2.23-11	6.84-16	9.74-27	2.44-10	1.69-10
0.	1.81-10	5.18-10	6.19-11	4.04-11	4.74-13	4.68-23	3.16-11	1.62-11
0.	3.93-10	4.02-10	7.17-11	4.19-11	3.06-12	3.80-25	4.04-11	1.66-11
1.49-13	2.58-10	1.98-10	1.51-11	8.66-12	2.62-13	1.87-20	2.31-11	1.34-11
4.39-14	8.46-10	1.47-10	1.50-11	7.55-12	1.81-13	5.68-19	5.65-11	4.89-11
9.90-14	2.70-10	1.98-11	2.60-11	2.89-10	1.26-14	4.79-31	2.19-11	1.42-11
1.22-11	8.43-11	3.46-11	2.95-11	4.07-12	3.77-14	9.79-21	9.20-12	2.63-12
4.22-11	6.30-11	2.61-11	2.11-11	7.81-11	3.66-14	5.17-22	1.06-11	4.16-12
1.86-10	1.34-10	2.42-11	1.07-09	5.18-10	1.41-14	5.77-23	5.91-11	3.27-11
8.29-11	8.00-11	6.80-11	8.08-10	5.43-11	1.01-14	6.57-20	3.54-11	1.84-11
5.26-11	6.16-10	5.10-10	2.92-10	1.89-10	1.04-12	1.10-19		
2.03-11	2.35-10	2.36-10	2.09-10	1.35-10	8.39-13	1.05-19	7.04-11	1.91-11

PHI 135 TO 180 DEGREES

0.	5.01-12	1.19-10	1.08-11	1.78-11	1.11-17	1.27-24	5.12-12	3.43-12
0.	2.52-11	5.36-10	1.76-12	1.17-11	1.97-13	5.99-24	2.10-11	1.66-11
0.	2.42-11	1.28-11	3.12-11	1.23-11	2.87-14	5.38-25	2.84-12	8.89-13
1.22-13	3.56-11	7.96-12	2.87-11	6.10-12	2.16-15	5.89-24	3.22-12	1.08-12
0.	7.21-11	2.18-10	2.64-11	4.14-11	9.95-14	2.50-21	1.34-11	8.19-12
0.	2.37-10	1.04-11	2.71-11	2.85-11	1.66-13	5.80-24	1.57-11	1.12-11
1.97-12	2.20-10	2.80-10	1.28-11	2.11-10	5.22-12	1.64-22	2.69-11	1.50-11
2.52-11	5.42-11	5.05-11	1.04-11	6.50-11	4.75-13	1.54-20	8.57-12	3.04-12
5.22-11	3.70-10	5.76-11	1.13-10	2.94-11	3.55-14	5.30-26	3.22-11	2.10-11
1.22-11	8.60-11	4.65-11	4.96-10	2.63-11	8.01-14	1.77-20	2.39-11	1.22-11
1.69-11	2.32-10	2.63-10	8.45-11	1.13-10	1.93-12	5.66-21		
6.77-12	1.12-10	1.30-10	3.63-11	7.92-11	1.71-12	4.27-21	2.89-11	8.41-12
							2.55-08	8.10-09

AIR SCATTERING 6.03 02 ENERGY 1.20 01 ANGLE 6.00 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	3.87-08	5.91-08	0.
4.00 01	0.	0.	0.	0.	0.	0.	3.29-08	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.52-08
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.78-08
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.21-08
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.34-08
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.37-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	2.33-09	9.28-09	2.31-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	2.46-08	3.76-08	0.
4.00 01	0.	0.	0.	0.	0.	0.	2.10-08	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.60-08
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.13-08
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.41-08
1.00 02	0.	0.	0.	0.	0.	0.	0.	8.50-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	8.76-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.54-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.37-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	3.77-13
	0.	0.	0.	0.	0.	1.49-09	5.91-09	1.47-08
	0.	0.	0.	0.	0.	1.48-09	3.44-09	4.00-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.82-13
1.40 02	0.	0.	0.	0.	0.	2.36-12	0.	0.
1.60 02	0.	0.	0.	0.	0.	7.95-14	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	6.41-13	9.21-14
	0.	0.	0.	0.	0.	0.	6.27-13	9.21-14

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.15-12
1.40 02	0.	0.	0.	0.	0.	0.	1.12-14	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	2.99-15	7.02-13
	0.	0.	0.	0.	0.	0.	2.99-15	7.02-13

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.

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AIR SCATTERING 6.03 02 ENERGY 1.20 01 ANGLE 6.00 01 DIST. 1.52 02

1.60 01	1.77 03	0.	0.	4.51 04	5.00 01	1.80 03		

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	0.	0.	0.	0.	0.	0.	3.24-08	
0.	0.	0.	0.	0.	0.	0.	8.57-09	
0.	0.	0.	0.	0.	0.	0.	3.77-09	
0.	0.	0.	0.	0.	0.	0.	2.67-09	
0.	0.	0.	0.	0.	0.	0.	3.31-09	
0.	0.	0.	0.	0.	0.	0.	2.00-09	
0.	0.	0.	0.	0.	0.	0.	2.06-09	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							6.91-09	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	5.77-11	4.14-11	6.60-13	1.05-12	3.89-14	3.43-22	2.06-08	1.46-08
7.99-12	7.49-11	1.90-11	4.40-11	3.37-11	5.66-15	7.63-20	5.46-09	3.87-09
1.38-11	6.12-11	4.65-11	5.00-11	2.88-12	9.34-14	1.23-21	2.41-09	1.71-09
2.01-10	1.97-11	4.55-11	9.31-11	3.17-11	3.70-14	4.46-19	1.73-09	9.98-10
3.05-11	1.77-11	2.43-11	3.04-11	5.28-12	2.57-13	5.33-19	2.11-09	1.08-09
3.84-10	1.81-11	4.61-11	7.50-11	9.51-12	9.62-12	9.85-22	1.31-09	5.82-10
6.53-10	1.15-10	1.72-10	9.18-11	7.61-12	3.43-13	8.26-21	1.39-09	2.15-10
5.90-10	7.12-11	1.02-10	7.57-11	1.67-10	2.80-14	1.42-21	6.58-11	2.06-11
5.32-10	2.97-11	7.00-11	3.09-11	2.86-11	1.88-13	4.04-25	5.35-11	3.09-11
2.82-11	1.55-10	2.22-11	1.02-11	1.05-12	2.52-14	7.27-31	1.29-11	7.70-12
6.07-10	1.16-10	1.42-10	1.27-10	7.15-11	1.91-12	2.55-19		
1.18-10	2.24-11	2.23-11	3.02-11	3.45-11	1.73-12	2.38-19	4.47-09	1.26-09

PHI 45 TO 90 DEGREES

0.	5.40-11	1.71-11	1.51-11	1.17-11	2.66-15	2.14-23	4.39-12	2.05-12
1.03-11	2.43-11	2.29-11	1.51-11	6.28-12	4.62-14	6.81-22	3.66-12	1.27-12
1.80-12	1.59-10	5.70-11	4.89-11	5.27-12	5.95-14	1.37-22	1.30-11	7.53-12
4.09-11	3.95-10	2.06-11	5.13-11	2.57-11	8.08-15	3.76-22	2.98-11	2.13-11
9.49-12	6.76-12	1.04-10	1.40-11	2.12-12	1.26-14	5.99-21	5.38-12	3.58-12
5.78-11	1.40-10	1.52-11	8.08-12	4.64-11	2.23-12	1.30-20	1.50-11	6.30-12
1.78-10	1.10-09	3.79-11	1.64-11	2.11-11	1.56-13	6.25-19	8.44-11	5.07-11
1.30-10	2.42-11	3.01-11	3.44-11	5.10-10	7.55-14	2.15-21	2.33-11	1.15-11
7.21-11	2.56-11	2.08-11	5.35-11	3.50-11	1.01-13	1.82-22	1.06-11	4.14-12
1.42-10	4.94-12	3.23-11	1.91-11	9.44-13	4.40-12	3.97-24	1.48-11	7.93-12
1.41-10	5.76-10	7.35-11	6.21-11	1.69-10	7.70-13	2.08-19		
6.45-11	3.49-10	2.07-11	1.43-11	1.40-10	4.52-13	2.02-19	5.41-11	2.36-11

PHI 90 TO 135 DEGREES

0.	1.65-11	6.56-11	2.03-11	3.39-11	1.13-13	6.15-30	4.35-12	2.27-12
0.	8.07-11	8.95-12	3.45-11	1.92-09	1.11-14	1.57-20	3.48-11	2.88-11
0.	1.05-09	7.48-11	3.04-11	3.01-11	2.54-14	1.97-20	6.66-11	5.72-11
3.27-12	1.07-10	7.64-11	3.18-11	9.09-10	3.53-14	2.52-19	2.39-11	1.41-11
2.93-14	5.36-10	3.50-11	2.45-11	1.13-12	2.39-13	1.01-27	3.41-11	2.17-11
2.77-11	7.14-11	2.08-11	2.41-11	2.23-09	4.01-14	6.88-22	4.15-11	3.35-11
1.84-12	3.76-11	5.04-11	6.21-11	4.76-11	1.83-14	5.09-26	6.74-12	2.20-12
3.03-11	1.61-11	1.48-11	1.06-10	1.17-11	3.86-13	1.39-20	6.96-12	2.71-12
2.49-10	1.38-11	4.91-11	7.37-11	1.64-11	8.84-14	2.20-23	2.70-11	1.94-11
4.08-11	3.00-11	2.95-12	7.31-11	3.59-11	4.16-11	1.61-22	8.25-12	3.81-12
6.02-11	4.55-10	8.91-11	9.98-11	1.05-09	2.71-12	9.41-20		
3.82-11	2.62-10	2.81-11	2.73-11	1.01-09	2.61-12	7.82-20	5.42-11	2.26-11

PHI 135 TO 180 DEGREES

0.	8.63-10	8.47-14	7.90-12	1.88-12	2.23-14	3.48-23	5.20-11	4.75-11
0.	5.23-11	9.14-11	1.33-11	1.09-12	1.97-15	5.89-23	6.76-12	5.15-12
0.	1.33-11	6.08-12	1.16-09	1.41-12	2.04-15	1.13-19	2.89-11	2.77-11
0.	3.97-11	6.28-12	4.44-12	1.45-12	4.80-13	3.44-20	2.74-12	1.17-12
0.	7.51-11	2.97-10	3.20-11	1.40-11	3.99-15	6.42-23	1.62-11	1.04-11
0.	3.87-11	1.43-10	8.08-12	6.20-12	1.05-14	5.56-24	7.78-12	4.77-12
0.	4.32-11	4.55-11	1.64-10	1.95-12	5.27-14	1.63-24	8.20-12	4.00-12
1.32-11	4.10-11	3.85-11	8.52-11	1.13-11	8.76-16	2.04-20	7.25-12	2.28-12
3.43-11	1.24-10	1.75-11	1.09-10	3.73-12	7.63-15	2.93-22	1.38-11	8.19-12
1.16-11	3.09-10	1.71-11	5.43-10	5.64-11	2.48-13	1.82-25	3.41-11	2.24-11
1.02-11	1.63-10	1.25-10	4.48-10	1.23-11	1.95-13	4.67-20		
5.50-12	6.06-11	5.81-11	3.39-10	3.99-12	1.56-13	3.88-20	2.61-11	1.24-11
							7.24-09	1.98-09

AIR SCATTERING 6.04 02 ENERGY 1.20 01 ANGLE 9.00 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	0.	3.17-08	4.61-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.32-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.96-08
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.35-08
9.00 01	0.	0.	0.	0.	0.	0.	0.	8.96-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	1.91-09	1.97-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	0.	2.02-08	2.94-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.11-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.25-08
8.00 01	0.	0.	0.	0.	0.	0.	0.	8.59-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.70-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	8.69-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.65-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	5.17-14
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	1.22-09	1.26-08
	0.	0.	0.	0.	0.	0.	1.22-09	3.18-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.25-15
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.29-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.06-14
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.40-12
	0.	0.	0.	0.	0.	0.	0.	1.40-12

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.08-17
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.01-17
	0.	0.	0.	0.	0.	0.	0.	1.01-17

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.

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AIR SCATTERING 6.04 02 ENERGY 1.20 01 ANGLE 9.00 01 DIST. 1.52 02

1.70 01	1.77 03	0.	0.	4.54 04	5.00 01	1.80 03		

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	0.	0.	0.	0.	0.	0.	1.52-08	
0.	0.	0.	0.	0.	0.	0.	4.98-09	
0.	0.	0.	0.	0.	0.	0.	2.94-09	
0.	0.	0.	0.	0.	0.	0.	2.02-09	
0.	0.	0.	0.	0.	0.	0.	1.34-09	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							3.45-09	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
7.61-12	2.00-10	1.16-11	8.61-11	1.75-13	1.30-15	4.02-28	9.66-09	6.84-09
3.60-10	8.59-11	2.27-10	5.68-11	2.08-11	1.72-12	9.07-21	3.22-09	1.85-09
8.20-11	8.61-10	6.53-11	3.97-11	1.56-11	1.25-13	2.79-22	1.93-09	7.96-10
1.08-09	7.86-11	1.27-10	1.65-10	2.40-11	5.79-14	1.00-21	1.40-09	3.15-10
2.05-09	2.30-10	7.20-11	1.46-11	2.18-11	5.50-14	1.30-21	1.06-09	1.46-10
5.91-10	4.69-10	1.05-10	4.76-11	1.25-11	2.36-13	1.61-22	8.78-11	2.64-11
1.74-10	1.21-10	5.88-11	7.62-11	1.05-11	1.05-13	1.18-19	2.71-11	5.88-12
1.24-10	1.47-11	5.50-11	8.30-11	1.93-10	2.04-12	1.56-21	1.87-11	6.33-12
8.19-10	1.90-11	7.40-11	1.04-09	5.81-11	1.38-14	2.92-23	1.03-10	5.82-11
5.79-12	7.95-12	2.47-10	3.79-11	1.05-11	5.07-14	1.47-23	1.09-11	8.40-12
1.13-09	4.50-10	1.91-10	3.20-10	8.70-11	9.84-13	4.11-20		
3.29-10	2.25-10	3.74-11	1.78-10	4.43-11	6.33-13	3.89-20	2.34-09	5.89-10

PHI 45 TO 90 DEGREES

7.78-13	1.67-11	7.25-10	1.80-12	1.19-11	1.46-13	8.19-31	2.74-11	1.54-11
2.32-11	7.51-11	3.06-11	1.84-11	1.18-11	4.69-13	3.32-26	8.32-12	3.74-12
3.90-11	9.47-11	9.46-11	1.88-10	1.05-11	9.30-14	1.29-23	1.73-11	4.57-12
9.95-11	5.87-11	1.27-10	6.20-11	1.15-11	1.12-13	2.34-23	1.87-11	6.43-12
2.32-10	5.24-11	6.43-11	7.61-11	1.03-11	9.06-13	3.79-24	2.83-11	1.86-11
1.48-11	8.25-11	1.15-10	7.73-10	1.26-10	1.68-12	5.01-32	3.09-11	1.49-11
6.08-11	3.12-10	1.29-10	3.85-11	1.38-10	7.14-13	4.66-21	3.25-11	1.39-11
3.02-11	7.58-11	1.56-11	5.18-11	1.67-11	5.06-14	2.44-25	9.32-12	3.01-12
9.70-13	4.51-11	2.10-11	1.15-11	3.82-12	6.23-14	1.82-22	3.88-12	2.51-12
6.48-13	1.07-11	2.53-11	1.51-11	5.05-11	2.21-15	3.04-25	2.73-12	9.40-13
1.18-10	2.12-10	1.98-10	2.50-10	8.62-11	8.57-13	1.56-21		
4.13-11	7.69-11	4.38-11	1.07-10	4.75-11	4.63-13	1.52-21	3.80-11	8.58-12

PHI 90 TO 135 DEGREES

0.	4.27-11	8.22-11	2.28-12	7.02-12	3.13-14	4.56-19	5.69-12	2.82-12
1.16-14	5.38-10	4.82-09	9.59-12	1.76-11	6.49-13	4.14-25	2.06-10	1.74-10
0.	4.47-11	4.96-11	1.36-11	6.03-12	3.50-13	4.12-24	4.88-12	1.78-12
0.	1.27-10	8.86-11	2.70-11	1.29-11	1.95-14	6.01-21	1.16-11	5.30-12
0.	6.01-10	4.96-11	5.45-11	8.86-11	5.30-14	1.83-21	4.05-11	3.41-11
0.	2.38-09	4.20-11	7.42-11	4.27-12	3.80-14	8.55-23	1.46-10	1.22-10
6.57-12	3.70-11	2.56-10	2.22-10	2.39-11	1.44-14	1.10-22	1.77-11	8.49-12
0.	2.05-10	5.92-12	5.22-11	2.08-11	2.45-14	5.53-22	1.41-11	9.37-12
1.33-13	1.16-10	4.85-10	3.28-11	5.76-12	9.34-16	1.99-22	2.53-11	1.39-11
0.	1.24-10	4.55-12	2.73-11	1.65-12	9.33-16	1.83-27	8.26-12	5.78-12
2.17-12	7.61-10	1.07-09	1.30-10	3.98-11	2.41-13	3.00-20		
2.03-12	3.78-10	8.34-10	7.45-11	1.77-11	1.43-13	2.76-20	8.81-11	3.94-11

PHI 135 TO 180 DEGREES

6.44-15	3.03-13	1.36-11	1.98-11	1.24-12	1.28-16	2.84-20	1.00-12	4.92-13
0.	3.05-12	3.65-11	1.76-11	4.30-12	1.09-15	2.11-23	1.98-12	7.85-13
0.	1.66-11	3.15-11	1.77-11	2.22-11	1.46-14	4.55-23	2.89-12	1.02-12
0.	1.16-10	7.07-11	4.18-11	2.30-11	2.04-15	1.02-20	1.09-11	5.22-12
0.	2.15-11	9.83-11	9.08-12	6.21-11	8.00-15	1.30-21	5.98-12	2.54-12
0.	4.31-10	2.04-11	9.56-12	5.93-13	3.89-15	9.89-23	2.69-11	2.12-11
0.	8.83-11	1.75-10	2.58-11	9.87-12	3.67-15	2.68-24	1.12-11	4.37-12
6.80-14	2.01-11	2.76-11	1.83-10	2.81-11	7.46-19	2.72-26	7.02-12	3.10-12
0.	1.27-11	2.32-11	8.99-12	1.24-10	2.17-15	3.56-28	3.68-12	1.67-12
4.37-11	3.11-11	1.74-10	5.73-12	3.13-12	1.06-14	1.25-24	1.23-11	7.34-12
2.65-12	1.53-10	1.38-10	8.48-11	5.76-11	9.03-15	5.28-21		
2.52-12	6.67-11	4.87-11	3.74-11	2.83-11	2.91-15	3.16-21	1.73-11	4.71-12
							3.91-09	9.37-10

AIR SCATTERING 6.05 02 ENERGY 1.20 01 ANGLE .35 02 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	1.03-07
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.55-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.61-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.33-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	6.54-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.26-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.34-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	4.91-14
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	8.49-09
	0.	0.	0.	0.	0.	0.	0.	2.03-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.78-14
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	5.81-15
	0.	0.	0.	0.	0.	0.	0.	5.81-15

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.23-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	8.59-14
	0.	0.	0.	0.	0.	0.	0.	8.59-14

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.

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AIR SCATTERING		0.05 02	ENERGY	1.20 01	ANGLE	1.35 02	DIST.	1.52 02
1.70 01	1.77 03	0.	0.	4.51 04	5.00 01	1.80 03		

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
0.	0.	0.	0.	0.	0.	0.	1.54-08	
0.	0.	0.	0.	0.	0.	0.	5.32-09	
0.	0.	0.	0.	0.	0.	0.	5.41-10	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	2.00-09	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
6.09-11	8.44-12	3.26-10	3.55-11	1.44-11	9.35-13	2.09-25	9.82-09	4.57-09
1.02-09	1.74-10	1.72-10	9.06-11	1.54-11	3.78-14	1.14-24	3.50-09	7.55-10
1.52-09	2.47-10	4.50-10	1.18-10	7.00-12	2.11-14	4.55-26	5.22-10	6.61-11
1.43-10	1.82-10	7.22-11	2.78-11	5.98-12	8.78-15	4.69-21	2.72-11	1.09-11
8.43-11	2.95-11	9.95-11	4.97-11	4.54-12	4.95-14	6.46-20	1.42-11	6.74-12
2.84-10	2.14-11	3.60-10	1.14-10	3.17-11	2.54-13	6.07-24	4.30-11	2.09-11
2.00-11	1.34-10	1.13-11	1.97-11	1.94-11	1.28-13	9.76-23	1.10-11	7.09-12
3.87-13	4.87-11	3.92-11	2.58-11	2.55-11	3.96-14	1.45-25	5.37-12	2.29-12
0.	5.75-11	3.77-11	1.01-11	5.43-12	2.05-13	1.17-21	5.13-12	2.11-12
0.	1.31-11	2.47-11	6.89-12	1.49-12	1.63-15	1.36-26	1.87-12	1.66-12
7.01-10	2.32-10	2.95-10	1.02-10	2.78-11	2.12-13	1.30-20		
1.60-10	7.18-11	1.00-10	2.67-11	8.79-12	9.56-14	1.21-20	1.36-09	3.05-10

PHI 45 TO 90 DEGREES

3.41-11	4.50-10	6.85-11	1.75-11	1.67-12	1.24-12	3.25-22	3.30-11	1.48-11
1.39-10	1.56-10	4.39-11	6.53-11	1.14-11	1.32-13	3.07-20	2.52-11	7.66-12
6.52-10	2.49-10	4.24-11	4.30-11	1.48-11	3.79-14	3.81-20	7.64-11	4.16-11
1.12-11	1.08-10	2.48-11	7.37-11	1.20-11	1.68-14	1.19-22	1.03-11	3.84-12
3.08-11	1.10-11	4.01-11	3.31-10	5.80-12	2.07-14	1.28-22	1.29-11	4.54-12
1.53-11	4.82-11	2.82-11	3.47-11	1.98-11	2.81-14	3.32-24	6.41-12	2.04-12
4.17-12	1.62-10	5.92-11	7.19-11	1.36-11	5.37-13	3.47-24	1.61-11	5.09-12
3.89-13	3.93-11	5.42-11	2.56-11	8.59-12	9.30-14	1.07-22	5.09-12	1.72-12
0.	5.02-11	1.77-11	4.28-12	1.36-11	1.22-14	3.53-22	3.95-12	3.08-12
0.	1.13-10	7.16-12	3.60-12	1.22-13	8.27-14	1.36-28	7.10-12	5.93-12
2.13-10	2.45-10	8.02-11	1.43-10	2.35-11	3.29-13	1.56-20		
1.19-10	6.57-11	1.50-11	4.23-11	5.35-12	1.13-13	1.54-20	4.05-11	1.19-11

PHI 90 TO 135 DEGREES

1.15-11	2.25-11	2.83-11	5.43-12	3.71-12	3.20-14	7.33-23	3.59-12	1.26-12
7.58-10	7.16-11	6.65-11	1.04-11	3.72-12	4.24-12	1.05-19	7.52-11	5.12-11
1.30-10	2.37-10	1.43-11	2.54-11	1.66-12	1.55-12	2.10-23	2.71-11	1.46-11
2.88-12	6.22-11	4.49-11	8.36-12	3.99-12	1.35-13	3.76-24	5.87-12	1.66-12
3.24-12	5.29-11	9.85-12	4.02-11	6.86-12	1.18-14	1.98-21	4.89-12	2.06-12
1.77-13	1.63-11	6.73-11	4.01-11	2.96-12	1.48-14	5.52-20	4.43-12	1.62-12
0.	7.83-10	5.69-11	4.45-11	8.76-12	9.52-14	3.13-22	5.02-11	3.44-11
0.	1.43-10	2.98-12	3.76-11	1.96-11	3.04-14	1.61-24	9.93-12	6.91-12
0.	4.60-11	2.72-11	1.69-11	3.02-13	1.05-14	1.20-22	4.15-12	2.21-12
0.	1.58-11	8.77-11	1.60-11	1.33-12	5.13-14	3.08-29	4.51-12	3.00-12
1.68-10	4.12-10	7.45-11	5.40-11	1.25-11	1.24-12	2.83-20		
1.01-10	2.02-10	1.82-11	1.19-11	5.76-12	1.08-12	2.04-20	4.40-11	1.53-11

PHI 135 TO 180 DEGREES

1.31-10	2.92-10	6.02-12	3.44-10	5.77-12	1.53-13	5.41-21	3.78-11	2.13-11
8.02-12	1.41-11	7.32-11	3.19-10	5.82-11	4.29-16	2.04-21	1.27-11	6.97-12
9.90-12	4.67-11	4.80-11	8.66-11	7.50-12	7.63-15	3.88-21	7.54-12	2.15-12
1.90-12	4.66-11	8.24-12	1.08-11	6.48-12	1.46-13	1.37-20	3.55-12	1.24-12
0.	7.65-11	6.85-12	2.38-11	2.43-12	8.46-14	1.04-22	5.44-12	4.48-12
0.	2.45-10	9.92-12	2.72-11	5.63-12	3.94-15	8.52-24	1.58-11	1.07-11
2.42-12	2.23-11	8.14-12	2.34-11	5.00-12	4.27-14	7.78-23	2.49-12	8.98-13
1.92-12	2.36-12	1.51-11	6.72-11	5.57-12	2.33-14	8.53-21	2.55-12	1.66-12
0.	5.80-10	3.01-12	2.90-12	3.83-13	6.48-18	1.47-28	3.50-11	3.46-11
0.	8.77-11	1.72-11	1.32-11	5.92-12	7.83-14	4.78-33	6.29-12	5.17-12
1.38-11	2.17-10	3.85-11	1.38-10	1.88-11	9.92-14	8.50-21		
7.14-12	1.08-10	9.10-12	6.20-11	8.48-12	4.60-14	5.15-21	1.93-11	6.72-12
							2.31-09	4.92-10

AIR SCATTERING 6.06 02 ENERGY 1.20 01 ANGLE 1.80 02 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	1.87-07
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.13-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.20 01	7.00	4.50	2.75	1.75	1.10	6.60-01	4.00-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	1.19-07
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.23-13
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	7.18-09
	0.	0.	0.	0.	0.	0.	0.	1.68-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	4.19-12
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.98-14
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	2.62-13
	0.	0.	0.	0.	0.	0.	0.	1.49-13

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	3.03-12
4.00 01	0.	0.	0.	0.	0.	0.	0.	9.14-15
6.00 01	0.	0.	0.	0.	0.	0.	0.	7.51-14
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	2.04-13
	0.	0.	0.	0.	0.	0.	0.	1.18-13

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	6.36-12
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.74-14
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.86-13
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	5.73-13
	0.	0.	0.	0.	0.	0.	0.	2.89-13

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AIR SCATTERING 6.06 02 ENERGY 1.20 01 ANGLE 1.80 02 DIST. 1.52 02
2.50 01 1.77 03 0. 0. 4.51 04 5.00 01 1.80 03

FIRST COLLISION

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02	
0.	0.	0.	0.	0.	0.	0.	2.81-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.69-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.50-01	1.60-01	1.00-01	6.40-02	4.00-02	2.50-02	1.60-02		
1.01-09	4.76-11	1.14-10	5.00-11	2.29-11	2.87-16	6.06-27	1.80-08	4.17-09
1.66-10	4.12-10	8.62-11	2.38-11	1.15-11	3.72-13	1.15-24	4.36-11	1.83-11
1.10-09	1.05-10	2.63-11	6.08-11	5.95-12	4.00-14	5.98-24	1.08-10	9.04-11
2.14-11	1.85-11	6.72-11	5.25-11	1.91-11	5.93-14	1.40-22	7.01-12	2.03-12
1.38-11	3.70-11	1.26-11	1.01-10	2.76-11	1.11-15	5.04-25	6.74-12	1.98-12
1.49-13	2.04-11	8.87-11	7.67-12	2.49-10	2.92-13	1.45-23	8.36-12	4.24-12
2.24-14	7.08-11	5.02-11	1.06-11	8.02-11	2.68-14	1.02-23	7.51-12	3.80-12
0.	1.87-11	8.66-12	9.28-12	1.62-12	2.03-14	1.15-23	1.68-12	7.31-13
0.	3.58-11	1.40-11	2.67-12	1.29-12	3.80-15	9.26-25	2.74-12	1.79-12
0.	4.63-11	1.27-11	1.03-11	1.76-11	1.90-15	1.46-25	3.75-12	2.25-12
3.92-10	1.55-10	9.02-11	6.63-11	8.72-11	1.60-13	5.65-23		
2.68-10	5.78-11	2.37-11	1.73-11	4.92-11	8.68-14	2.93-23	1.13-09	2.53-10

PHI 45 TO 90 DEGREES

3.31-09	3.29-10	2.44-09	1.59-11	3.27-11	1.05-15	7.37-24	4.07-10	1.62-10
5.30-10	5.52-11	1.94-09	3.38-11	1.05-10	7.02-13	1.43-23	1.23-10	7.41-11
8.74-11	3.29-11	5.06-11	4.38-11	1.48-11	1.18-13	6.97-22	1.29-11	3.92-12
1.88-10	2.09-10	1.33-10	1.28-10	1.39-11	7.93-15	1.29-22	3.76-11	1.54-11
4.31-12	2.90-11	1.17-11	3.10-11	1.32-10	5.79-15	2.07-27	5.28-12	2.00-12
3.60-14	1.35-11	4.64-10	1.90-11	3.72-12	4.63-14	6.02-21	1.80-11	1.59-11
0.	1.44-10	2.53-11	2.41-11	1.20-11	1.91-12	2.99-24	1.03-11	4.21-12
0.	3.50-11	2.90-11	1.22-11	1.07-12	6.52-16	4.81-24	3.45-12	1.30-12
0.	1.04-11	1.21-11	4.27-11	6.49-12	4.08-15	2.62-21	2.18-12	7.54-13
0.	7.92-10	2.57-15	1.28-12	3.85-13	9.10-18	3.45-22	4.75-11	4.33-11
3.77-10	2.20-10	6.42-10	8.77-11	5.77-11	7.90-13	1.75-21		
1.16-10	8.80-11	3.57-10	2.34-11	2.80-11	6.19-13	1.12-21	7.33-11	1.78-11

PHI 90 TO 135 DEGREES

5.84-10	5.17-10	1.18-10	6.80-11	1.49-11	2.91-12	1.42-22	9.02-11	3.73-11
2.33-10	3.49-10	1.52-10	5.77-11	6.57-11	1.15-12	4.02-23	4.98-11	1.76-11
1.04-10	2.07-10	8.98-11	4.57-11	3.97-11	1.81-12	1.38-21	2.68-11	1.29-11
2.16-11	3.19-11	1.43-10	2.93-10	3.74-11	1.06-11	5.06-23	1.67-11	6.85-12
6.55-12	2.67-10	3.57-11	1.37-10	1.23-11	1.46-14	7.79-23	2.14-11	1.58-11
4.25-12	8.09-11	2.73-11	4.30-11	6.45-12	1.43-12	6.70-25	7.36-12	3.66-12
7.21-12	1.19-11	7.57-12	3.20-11	6.52-12	4.31-13	1.69-23	2.51-12	8.46-13
0.	7.82-12	1.35-11	4.65-11	9.01-12	1.12-12	2.10-20	2.22-12	5.55-13
0.	7.47-11	5.30-11	2.09-12	5.50-13	3.67-15	5.72-26	6.46-12	3.79-12
0.	0.	1.37-12	5.60-13	2.21-13	1.53-15	1.13-29	6.62-14	5.05-14
1.15-10	2.37-10	1.30-10	1.76-10	4.30-11	5.00-12	6.02-21		
3.51-11	9.92-11	3.07-11	9.21-11	1.36-11	3.95-12	5.04-21	3.42-11	7.37-12

PHI 135 TO 180 DEGREES

2.52-09	1.02-10	5.44-10	1.85-11	1.08-11	1.48-13	1.87-22	2.54-10	1.77-10
1.10-10	2.57-10	1.66-10	4.28-11	6.68-12	6.35-14	3.36-25	3.24-11	8.91-12
1.85-10	4.08-10	8.02-11	1.23-10	7.12-12	1.16-14	6.22-24	4.72-11	1.67-11
8.57-11	9.29-11	8.82-11	4.39-11	2.87-11	2.25-13	2.86-20	1.79-11	6.81-12
1.18-12	4.37-09	3.50-12	5.58-11	9.85-12	2.54-14	1.87-20	2.64-10	2.61-10
5.34-14	5.23-11	8.80-11	2.29-11	5.74-12	3.23-13	8.95-24	6.95-12	2.44-12
5.32-11	5.70-11	4.07-10	1.61-10	2.33-11	7.09-15	2.16-23	2.71-11	1.55-11
0.	1.82-11	4.35-11	2.05-10	1.21-11	1.37-14	7.34-21	7.75-12	4.66-12
0.	8.34-11	4.26-11	7.35-12	5.26-12	5.59-14	1.04-32	6.79-12	4.46-12
0.	3.10-10	2.01-10	2.62-12	5.79-12	6.15-12	6.19-31	2.60-11	2.40-11
2.66-10	1.01-09	2.92-10	1.78-10	2.79-11	5.44-13	1.46-20		
1.23-10	7.60-10	1.37-10	7.49-11	8.88-12	3.62-13	1.03-20	1.00-10	5.17-11
							2.10-09	4.19-10

AIR SCATTERING 6.07 02 ENERGY 7.00 ANGLE 1.00 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	1.34-05	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	3.59-05	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	7.00-06
	8.06-07	0.	0.	0.	0.	0.	1.17-05	4.22-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	8.50-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	2.29-05	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.52-11
1.80 02	0.	0.	0.	0.	0.	0.	3.68-12	4.46-06
	5.13-07	0.	0.	0.	0.	0.	7.46-06	2.69-07
	3.34-07	0.	0.	0.	0.	0.	7.46-06	1.69-07

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	6.59-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	7.11-16
1.60 02	0.	0.	0.	0.	0.	0.	1.68-11	5.86-11
1.80 02	0.	0.	0.	0.	0.	2.81-14	4.38-12	1.24-09
	0.	0.	0.	0.	0.	1.70-15	3.18-12	8.61-11
	0.	0.	0.	0.	0.	1.70-15	2.34-12	2.91-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	7.66-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.58-12
1.60 02	0.	0.	0.	0.	0.	0.	6.15-11	7.91-11
1.80 02	0.	0.	0.	0.	0.	4.07-12	6.00-15	1.38-08
	0.	0.	0.	0.	0.	2.45-13	1.07-11	8.49-10
	0.	0.	0.	0.	0.	2.08-13	1.06-11	6.87-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	5.07-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.75-12
1.60 02	0.	0.	0.	0.	0.	4.06-13	8.47-12	6.36-11
1.80 02	0.	0.	0.	0.	0.	1.33-13	1.91-11	6.67-10
	0.	0.	0.	0.	0.	7.86-14	2.63-12	5.36-11
	0.	0.	0.	0.	0.	7.08-14	1.57-12	1.38-11

205314757515 276326622031

AIR SCATTERING 6.07 02 ENERGY 7.00 ANGLE 1.00 DIST. 1.52 02

3.50 01	1.75 03	0.	0.	4.82 04	5.00 01	1.80 03	

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	3.34-05
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	6.46-06
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	7.00-07
0.	0.	0.	0.	0.	0.	0.	4.17-06

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
0.	1.51-10	5.99-12	5.25-11	6.06-12	2.24-14	1.08-26	2.13-05	1.38-05
4.30-12	5.58-11	3.34-10	4.48-11	1.51-10	1.49-11	3.00-29	1.68-11	1.03-11
3.86-12	4.26-10	2.19-10	2.89-10	1.48-11	1.94-11	8.17-25	3.47-11	1.47-11
2.05-11	9.70-09	3.15-10	8.30-11	7.79-11	6.31-13	3.36-21	4.99-10	4.79-10
7.91-11	1.69-10	2.06-10	1.29-10	3.96-11	3.29-13	1.75-19	2.44-11	8.31-12
1.72-10	4.90-11	1.54-10	5.81-11	1.29-11	4.24-14	2.99-26	2.24-11	1.31-11
2.67-10	8.19-10	3.47-10	1.31-10	2.87-09	4.33-13	1.46-23	4.11-06	4.11-06
1.99-10	1.36-10	6.19-11	1.24-10	4.13-09	1.84-13	1.47-24	8.08-11	5.40-11
1.82-10	8.42-10	1.04-10	4.61-11	2.46-10	3.71-11	2.36-24	6.70-11	2.73-11
2.76-10	3.15-10	2.06-10	3.87-10	7.27-12	2.69-12	1.28-27	4.46-07	2.80-07
2.40-10	3.80-09	4.42-10	2.54-10	2.14-09	1.48-11	3.14-20		
6.54-11	3.14-09	1.14-10	6.44-11	1.98-09	8.41-12	3.14-20	2.65-06	1.58-06

PHI 45 TO 90 DEGREES

0.	2.88-08	7.40-13	1.61-11	1.03-12	9.99-15	4.36-33	1.44-09	1.44-09
3.03-15	7.49-10	2.35-11	6.54-12	9.50-10	5.08-12	5.74-23	5.07-11	3.30-11
3.81-13	2.09-10	6.29-11	9.20-11	9.61-12	2.88-13	6.04-21	1.44-11	7.46-12
1.67-11	2.95-11	1.29-10	2.99-11	1.82-11	1.66-14	4.10-21	7.76-12	2.76-12
1.52-10	3.11-11	1.28-10	5.73-11	5.81-09	5.77-12	2.62-20	9.45-11	7.58-11
1.14-11	9.25-11	1.23-10	3.46-11	5.07-11	1.38-14	5.12-22	1.15-11	4.40-12
2.07-11	4.59-11	2.67-10	2.61-11	2.11-09	1.09-12	7.70-25	4.45-11	2.74-11
2.37-10	1.47-10	4.47-10	6.84-11	1.31-10	2.90-13	1.54-23	5.97-11	1.95-11
1.07-09	3.09-10	1.71-10	1.07-10	1.38-10	1.01-13	8.50-27	1.19-10	4.86-11
4.09-09	1.94-10	1.05-09	1.11-10	1.46-11	5.90-13	2.41-28	4.98-10	3.03-10
6.05-10	2.07-09	4.05-10	1.04-10	1.94-09	2.45-12	7.60-21		
2.70-10	1.74-09	8.95-11	2.32-11	1.84-09	1.39-12	5.25-21	2.02-10	9.31-11

PHI 90 TO 135 DEGREES

0.	7.95-13	5.14-12	4.03-11	2.63-11	3.76-13	1.39-33	1.36-12	7.53-13
3.45-09	1.70-11	1.26-11	1.01-11	2.44-12	1.08-13	4.41-23	2.78-10	2.76-10
3.56-11	6.51-10	3.88-09	1.34-10	2.64-12	5.51-14	6.14-21	1.62-10	1.27-10
3.58-11	1.98-09	8.95-11	3.61-09	5.18-10	6.00-14	1.24-21	1.80-10	8.78-11
1.63-11	5.54-11	8.26-11	6.75-11	8.82-10	1.91-11	3.25-26	1.97-11	1.15-11
7.10-10	8.66-11	3.65-11	1.06-09	7.67-12	1.30-12	2.19-22	8.37-11	5.69-11
2.63-11	1.35-10	3.08-10	6.49-11	3.24-11	4.75-12	1.73-23	2.22-11	6.78-12
9.62-10	1.47-10	8.28-11	3.75-10	3.96-11	2.85-13	9.60-22	9.51-11	3.84-11
9.07-10	5.55-10	1.54-10	1.06-10	1.78-11	7.75-14	8.27-22	1.27-10	4.72-11
2.14-10	2.94-10	1.45-10	5.95-11	2.05-11	4.76-14	3.46-28	1.42-09	1.14-09
1.19-09	1.04-09	1.24-09	1.49-09	3.52-10	5.26-12	2.49-21		
6.31-10	4.11-10	1.07-09	1.16-09	3.03-10	4.83-12	1.69-21	3.08-10	1.10-10

PHI 135 TO 180 DEGREES

0.	1.99-11	6.25-11	2.62-12	1.46-13	2.29-18	3.24-36	3.05-12	2.23-12
1.65-12	1.98-11	2.05-10	8.61-11	4.67-13	1.44-14	4.41-26	9.39-12	4.11-12
6.72-15	4.10-11	5.59-11	1.76-10	1.25-11	1.93-13	4.37-29	7.52-12	2.52-12
4.71-10	1.81-10	7.26-11	7.16-11	1.79-11	1.93-13	3.38-21	5.98-11	3.19-11
9.49-10	2.32-11	9.81-11	1.04-10	1.05-12	2.46-12	7.09-31	8.23-11	6.21-11
1.30-11	3.38-11	2.19-11	4.33-10	5.22-12	6.86-14	3.09-24	1.21-11	8.43-12
3.99-10	7.67-11	1.73-10	9.21-11	8.09-11	3.52-14	7.43-22	4.47-11	2.70-11
2.05-10	3.47-10	2.71-10	2.02-10	1.78-11	9.64-14	1.90-24	4.70-11	1.63-11
5.97-10	3.36-10	5.25-10	4.58-10	1.41-11	8.20-14	3.58-26	9.87-11	2.26-11
2.68-10	2.91-10	2.92-10	5.48-11	1.18-10	1.16-14	1.76-23	1.18-10	2.87-11
6.26-10	2.78-10	3.36-10	3.45-10	5.10-11	6.08-13	1.35-21		
2.25-10	8.87-11	1.02-10	1.31-10	2.02-11	3.99-13	1.13-21	8.81-11	2.02-11
							4.17-06	2.48-06

AIR SCATTERING 6.08 02 ENERGY 7.00 ANGLE 1.50 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	4.76-07	2.50-07	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	1.41-07	2.43-07	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	1.84-07	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	3.24-07	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.76-07
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.38-07
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.39-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.44-07
	0.	2.87-08	1.51-08	2.45-08	4.21-08	4.89-08	5.63-08	1.71-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	3.03-07	1.59-07	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	8.98-08	1.54-07	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	1.17-07	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	2.06-07	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.12-07
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.52-07
1.60 02	0.	0.	0.	0.	0.	0.	3.05-17	1.53-07
1.80 02	0.	0.	0.	0.	0.	4.50-13	2.20-12	9.42-08
	0.	1.03-08	9.59-09	1.56-08	2.68-08	3.11-08	3.58-08	1.09-07
	0.	1.06-08	9.58-09	1.56-08	2.68-08	3.11-08	3.58-08	4.50-08

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.53-16
1.40 02	0.	0.	0.	0.	0.	0.	0.	4.35-12
1.60 02	0.	0.	0.	0.	0.	1.03-11	3.92-15	2.91-10
1.80 02	0.	0.	0.	0.	0.	0.	8.05-10	5.26-10
	0.	0.	0.	0.	0.	1.79-12	4.86-11	8.34-11
	0.	0.	0.	0.	0.	1.79-12	4.85-11	3.17-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	2.72-12	7.20-11
1.60 02	0.	0.	0.	0.	0.	0.	3.19-12	1.16-11
1.80 02	0.	0.	0.	0.	0.	0.	2.04-13	1.13-08
	0.	0.	0.	0.	0.	0.	1.29-12	7.02-10
	0.	0.	0.	0.	0.	0.	8.96-13	6.47-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	7.86-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	5.92-13
1.60 02	0.	0.	0.	0.	0.	0.	9.12-13	3.57-12
1.80 02	0.	0.	0.	0.	0.	0.	5.52-12	2.09-11
	0.	0.	0.	0.	0.	0.	4.92-13	2.77-11
	0.	0.	0.	0.	0.	0.	3.69-13	2.57-11

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AIR SCATTERING 6.08 02 ENERGY 7.00 ANGLE 1.50 01 DIST. 1.52 02

2.60 01	1.76 03	0.	0.	4.80 04	5.00 01	1.80 03		

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
0.	0.	0.	0.	0.	0.	0.	9.89-07	
0.	0.	0.	0.	0.	0.	0.	1.96-07	
0.	0.	0.	0.	0.	0.	0.	5.51-08	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	5.83-08	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	1.76-08	
0.	0.	0.	0.	0.	0.	0.	2.38-08	
0.	0.	0.	0.	0.	0.	0.	2.39-08	
0.	0.	0.	0.	0.	0.	0.	1.44-08	
0.	0.	0.	0.	0.	0.	0.	1.36-07	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
0.	1.44-10	3.42-12	4.07-13	8.71-12	4.47-14	2.73-30	6.30-07	3.16-07
0.	6.69-11	4.58-11	1.43-10	9.42-12	2.68-15	6.44-30	1.25-07	8.81-08
1.84-11	1.49-10	5.29-11	2.61-11	4.04-12	1.77-15	9.83-26	3.51-08	3.51-08
3.41-11	2.23-10	5.81-11	3.37-11	3.50-11	6.96-14	6.29-29	1.69-11	5.25-12
2.87-11	9.17-11	1.82-10	7.49-12	7.58-11	1.45-13	8.43-26	3.71-08	3.71-08
1.99-09	2.57-11	5.45-11	3.80-11	9.29-11	3.73-14	3.89-25	1.64-10	1.55-10
1.97-10	1.05-10	2.63-10	2.70-10	1.15-11	3.51-13	1.55-22	1.12-08	1.12-08
5.35-10	1.83-10	9.87-11	8.42-11	1.22-11	3.08-13	7.04-24	1.52-08	9.38-09
3.78-10	2.60-10	2.33-10	5.04-10	7.10-11	6.46-14	2.06-24	1.53-08	4.88-09
2.54-10	2.12-10	8.91-11	8.50-11	1.28-10	2.99-13	2.56-27	9.46-09	1.26-09
6.54-10	2.94-10	2.40-10	2.54-10	7.10-11	2.84-13	5.28-23		
3.46-10	5.87-11	5.99-11	8.75-11	2.28-11	1.24-13	4.67-23	8.64-08	2.72-08

PHI 45 TO 90 DEGREES

0.	3.82-11	3.84-12	3.80-12	1.50-11	1.87-15	1.96-23	2.31-12	1.60-12
2.88-14	1.80-10	1.43-11	5.00-11	9.50-13	2.65-15	1.61-22	1.05-11	5.41-12
7.13-11	6.97-11	7.44-11	5.75-11	6.08-12	1.35-14	5.46-23	1.28-11	6.09-12
1.68-10	2.04-10	8.37-11	3.40-11	4.85-11	6.75-14	7.47-23	3.09-11	1.37-11
2.60-10	4.17-11	6.48-10	4.52-10	1.67-11	1.76-13	1.33-26	5.29-11	2.98-11
1.14-10	8.53-10	1.08-10	2.20-10	2.68-11	2.59-13	3.75-25	5.99-11	4.01-11
2.16-10	2.72-10	3.19-10	2.13-10	2.22-11	5.34-14	1.40-25	4.56-11	2.12-11
2.51-10	1.23-10	3.27-10	9.15-11	1.98-11	6.33-14	1.89-20	3.92-11	1.14-11
3.19-10	1.45-10	3.00-10	3.22-10	7.89-11	1.81-14	1.62-21	8.20-11	2.09-11
3.05-10	8.18-11	1.25-10	9.71-11	1.89-11	2.01-13	6.23-27	2.32-10	1.47-10
3.59-10	4.26-10	4.32-10	3.08-10	5.34-11	1.51-13	5.38-21		
8.15-11	1.59-10	1.34-10	1.31-10	2.03-11	7.01-14	4.36-21	8.83-11	1.70-11

PHI 90 TO 135 DEGREES

0.	7.57-11	5.41-11	5.41-10	2.47-12	1.91-14	3.59-35	1.64-11	1.12-11
0.	5.93-11	7.08-12	5.64-11	3.88-12	5.54-15	4.62-25	4.37-12	1.56-12
1.03-14	1.65-10	6.95-11	2.71-11	3.93-10	1.71-14	7.84-28	1.61-11	7.71-12
1.28-11	9.60-10	1.66-10	1.02-10	9.83-12	6.32-14	7.46-21	5.65-11	3.17-11
3.23-10	6.23-11	4.02-11	6.01-11	6.39-12	1.51-13	8.30-24	3.15-11	1.95-11
6.36-12	2.96-10	1.41-11	4.81-11	6.13-12	1.05-12	1.25-23	1.68-11	1.10-11
3.56-11	3.14-11	5.41-11	1.25-10	5.26-11	1.42-13	2.73-26	9.33-12	2.08-12
3.05-10	7.95-11	1.79-10	1.91-10	1.04-10	1.75-13	1.66-26	4.69-11	1.72-11
1.86-09	6.05-11	3.52-10	7.29-10	1.01-10	8.63-14	7.41-22	1.81-10	9.44-11
3.12-10	1.62-10	5.56-11	9.68-11	1.46-10	1.73-13	8.92-26	1.17-09	1.07-09
4.96-10	4.86-10	2.16-10	3.26-10	1.82-10	3.54-13	2.57-21		
2.12-10	2.05-10	5.62-11	1.23-10	1.09-10	1.28-13	2.44-21	1.50-10	6.81-11

PHI 135 TO 180 DEGREES

2.96-12	2.36-11	3.47-12	2.54-11	8.24-12	4.51-16	3.31-31	2.15-12	1.27-12
0.	1.74-10	1.88-11	5.13-11	2.48-10	1.62-13	2.42-25	1.36-11	7.17-12
0.	1.53-10	2.13-10	1.73-11	9.50-12	1.87-14	3.33-24	1.49-11	6.88-12
2.11-12	8.42-10	2.65-11	2.89-11	6.64-12	1.69-14	1.07-23	4.38-11	4.02-11
1.80-10	1.56-10	7.17-11	5.34-11	4.98-12	2.91-14	5.34-22	2.56-11	1.15-11
2.72-10	2.61-10	8.35-11	6.76-11	5.27-11	1.44-13	5.27-21	3.95-11	1.89-11
5.24-11	5.94-11	1.70-10	1.58-10	6.26-12	2.29-13	9.29-23	2.18-11	8.92-12
5.76-10	9.24-11	8.10-11	6.10-11	4.45-11	2.71-13	6.82-24	5.51-11	4.05-11
4.75-10	3.03-10	4.62-11	1.50-10	8.81-11	2.07-12	3.41-24	5.93-11	1.80-11
7.46-11	1.45-10	3.22-10	1.99-10	2.00-10	3.17-14	9.33-26	3.32-11	1.04-11
3.37-10	5.25-10	1.81-10	1.51-10	9.95-11	5.77-13	1.04-21		
1.63-10	2.69-10	5.18-11	4.68-11	4.11-11	3.73-13	1.01-21	6.61-11	1.01-11
							1.36-07	4.28-08

AIR SCATTERING 6.09 02 ENERGY 7.00 ANGLE 3.00 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	6.84-08	2.17-07	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	6.39-08	7.97-08	0.	0.
6.00 01	0.	0.	0.	0.	0.	4.61-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	9.17-08	0.
9.00 01	0.	0.	0.	0.	0.	0.	5.57-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	7.33-08
1.20 02	0.	0.	0.	0.	0.	0.	0.	6.71-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	9.43-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	5.30-08
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	4.13-09	1.31-08	1.11-08	2.61-08	3.96-08	6.89-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	4.36-08	1.38-07	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	4.07-08	5.07-08	0.	0.
6.00 01	0.	0.	0.	0.	0.	2.93-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	5.84-08	7.37-08
9.00 01	0.	0.	0.	0.	0.	0.	3.55-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	4.67-08
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.27-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	6.06-08
1.60 02	0.	0.	0.	0.	0.	1.86-22	1.31-13	3.77-08
1.80 02	0.	0.	0.	0.	0.	0.	4.59-18	4.84-10
	0.	0.	2.63-09	8.32-09	7.06-09	1.66-08	2.52-08	6.88-08
	0.	0.	2.63-09	5.88-09	7.06-09	1.18-08	1.49-08	2.71-08

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.17-14
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.25-16
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.51-12
1.60 02	0.	0.	0.	0.	0.	0.	1.41-11	1.93-11
1.80 02	0.	0.	0.	0.	0.	0.	1.26-14	1.23-10
	0.	0.	0.	0.	0.	0.	2.44-12	1.12-11
	0.	0.	0.	0.	0.	0.	2.42-12	4.67-12

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	9.77-17
1.60 02	0.	0.	0.	0.	0.	0.	1.11-11	4.04-12
1.80 02	0.	0.	0.	0.	0.	0.	2.08-16	2.85-10
	0.	0.	0.	0.	0.	0.	1.92-12	1.79-11
	0.	0.	0.	0.	0.	0.	1.84-12	1.72-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.90-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.09-10
	0.	0.	0.	0.	0.	0.	0.	7.43-12
	0.	0.	0.	0.	0.	0.	0.	5.40-12

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AIR SCATTERING 6.09 02 ENERGY 7.00 ANGLE 3.00 01 DIST. 1.52 02

2.50 01	1.76 03	0.	0.	4.76 04	5.00 01	1.80 03		

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
0.	0.	0.	0.	0.	0.	0.	2.27-07	
0.	0.	0.	0.	0.	0.	0.	4.95-08	
0.	0.	0.	0.	0.	0.	0.	1.38-08	
0.	0.	0.	0.	0.	0.	0.	1.65-08	
0.	0.	0.	0.	0.	0.	0.	1.00-08	
0.	0.	0.	0.	0.	0.	0.	7.33-09	
0.	0.	0.	0.	0.	0.	0.	6.71-09	
0.	0.	0.	0.	0.	0.	0.	9.43-09	
0.	0.	0.	0.	0.	0.	0.	5.30-09	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							4.00-08	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
0.	4.00-10	7.00-10	1.26-10	6.90-12	9.78-15	6.08-29	1.45-07	8.34-08
1.21-12	5.29-10	2.44-09	7.80-11	5.14-12	1.58-12	7.35-21	3.16-08	2.23-08
2.11-11	7.16-10	3.27-11	4.06-09	5.36-12	6.77-14	1.96-27	8.92-09	8.80-09
1.26-10	9.71-11	7.47-11	1.91-09	4.95-11	5.47-13	4.20-26	1.79-08	1.41-08
7.91-11	6.39-11	3.04-11	5.97-11	5.71-12	2.17-13	7.56-26	6.39-09	6.38-09
6.12-11	6.55-11	6.51-11	2.12-10	1.67-11	3.97-14	1.41-23	4.68-09	4.67-09
2.87-10	1.49-10	2.59-10	1.40-10	1.91-11	9.29-14	3.20-21	4.31-09	2.52-09
1.19-09	9.83-11	8.37-11	6.82-11	1.94-11	2.41-13	2.52-24	6.16-09	1.82-09
3.47-10	1.16-10	1.09-10	1.53-10	3.76-11	1.05-13	2.36-22	3.81-09	5.33-10
4.93-10	1.06-10	1.03-09	2.05-11	1.82-11	4.08-13	1.06-25	1.27-10	5.82-11
5.71-10	4.62-10	7.03-10	1.86-09	4.17-11	6.53-13	2.36-21		
2.42-10	1.58-10	4.63-10	1.68-09	1.27-11	2.94-13	1.54-21	2.81-08	8.32-09

PHI 45 TO 90 DEGREES

0.	5.17-11	8.14-12	1.68-11	1.68-12	2.95-14	2.41-23	3.20-12	1.54-12
0.	8.69-11	3.01-12	3.31-10	2.66-11	3.80-14	4.16-23	1.14-11	6.76-12
4.15-12	3.52-11	5.12-11	3.42-11	2.52-09	1.47-13	1.10-25	3.72-11	3.25-11
4.23-11	8.50-11	6.23-11	3.84-09	2.01-09	4.57-14	4.00-27	1.13-10	1.01-10
4.79-11	9.81-11	1.22-10	8.94-11	1.48-11	2.61-13	2.13-26	1.46-11	4.11-12
2.59-10	1.73-11	1.76-10	5.02-11	1.74-11	9.67-14	6.76-30	2.84-11	1.30-11
1.16-10	4.50-11	1.28-10	1.31-10	1.82-11	3.94-14	1.55-26	1.85-11	5.90-12
3.56-10	1.10-10	6.44-11	9.49-11	1.51-11	4.66-14	9.24-25	3.83-11	1.35-11
9.44-11	1.10-10	1.11-10	5.15-11	3.13-11	2.82-14	3.00-25	2.25-11	4.70-12
7.86-10	2.82-10	2.20-10	3.72-11	1.22-10	5.36-12	5.81-29	9.87-11	4.16-11
2.65-10	1.56-10	1.78-10	1.42-09	1.36-09	4.78-13	9.00-24		
6.13-11	3.04-11	4.78-11	1.23-09	1.32-09	3.27-13	6.83-24	8.24-11	4.20-11

PHI 90 TO 135 DEGREES

0.	1.95-11	2.18-11	9.76-10	2.35-10	1.49-14	2.52-24	2.43-11	2.26-11
6.26-11	5.27-11	2.42-11	1.54-10	4.90-12	4.64-13	1.63-23	1.16-11	5.61-12
1.38-13	2.16-11	1.44-10	6.35-10	1.64-11	6.82-13	1.04-24	1.86-11	1.09-11
6.10-11	1.15-10	8.96-10	4.18-10	5.24-11	1.23-14	3.47-24	4.83-11	3.15-11
1.63-09	1.09-10	1.44-11	6.21-11	3.71-11	1.57-14	1.69-23	1.38-10	1.21-10
3.37-11	4.83-11	1.02-11	5.71-11	2.27-11	1.60-13	5.14-25	6.88-12	1.96-12
5.50-11	7.25-11	6.91-11	2.47-11	1.84-11	1.94-13	1.35-26	1.10-11	4.01-12
1.77-09	1.02-10	2.15-10	3.38-11	1.09-11	3.55-14	1.44-26	1.54-10	1.11-10
4.51-10	4.74-11	9.57-11	1.80-10	6.98-11	2.62-14	2.38-25	4.84-11	2.60-11
1.38-10	6.32-11	2.46-10	9.21-11	1.68-12	8.73-14	2.88-30	5.25-11	2.96-11
8.95-10	1.44-10	4.52-10	4.65-10	6.80-11	3.80-13	7.46-24		
4.55-10	3.44-11	2.47-10	2.07-10	2.20-11	2.07-13	3.78-24	1.06-10	3.81-11

PHI 135 TO 180 DEGREES

0.	4.51-11	4.11-11	4.95-12	4.58-12	2.68-15	1.88-23	3.73-12	2.60-12
0.	2.63-10	2.71-12	1.57-11	3.90-10	5.30-16	5.82-32	1.86-11	1.23-11
9.01-14	4.18-11	7.11-11	3.79-11	1.45-12	2.20-15	1.55-25	5.15-12	2.44-12
0.	2.18-10	6.39-11	2.77-11	4.75-11	2.40-15	3.43-25	1.41-11	9.73-12
8.46-11	5.01-10	1.27-10	9.55-12	8.61-12	9.06-15	1.04-26	3.70-11	1.64-11
3.19-11	2.57-10	3.15-11	4.55-11	9.48-12	6.47-15	1.49-26	1.75-11	7.55-12
2.09-10	1.99-10	7.57-11	6.76-11	4.48-11	5.93-14	6.56-25	3.82-11	1.71-11
4.99-11	5.12-11	1.83-10	5.72-11	4.57-12	1.04-14	1.14-20	1.36-11	4.53-12
1.09-10	1.35-10	4.74-11	7.59-11	1.57-11	1.82-13	4.20-22	1.92-11	5.83-12
1.35-10	6.37-11	3.61-11	1.39-10	1.17-12	4.84-16	4.98-28	2.89-11	1.07-11
1.60-10	3.68-10	1.54-10	9.05-11	1.06-10	5.80-14	3.12-21		
6.49-11	1.25-10	4.86-11	2.10-11	8.03-11	2.81-14	2.28-21	4.01-11	8.51-12
							4.44-08	1.31-08

AIR SCATTERING 6.10 02 ENERGY 7.00 ANGLE 6.00 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	1.45-07	0.	0.
4.00 01	0.	0.	0.	0.	0.	2.21-08	6.14-08	0.
6.00 01	0.	0.	0.	0.	0.	0.	2.94-08	0.
8.00 01	0.	0.	0.	0.	0.	0.	9.15-09	4.30-08
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.38-08
1.00 02	0.	0.	0.	0.	0.	0.	0.	4.17-08
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.48-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	1.26-08	2.15-08	3.85-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	9.20-08	0.	0.
4.00 01	0.	0.	0.	0.	0.	1.41-08	3.91-08	0.
6.00 01	0.	0.	0.	0.	0.	0.	1.87-08	0.
8.00 01	0.	0.	0.	0.	0.	0.	5.82-09	2.74-08
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.15-08
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.66-08
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.50-08
1.40 02	0.	0.	0.	0.	0.	0.	6.34-13	2.72-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.09-09
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	7.99-09	1.37-08	2.64-08
	0.	0.	0.	0.	0.	4.62-09	6.25-09	5.57-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.54-14
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.16-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.15-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.80-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	5.96-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	6.32-11
	0.	0.	0.	0.	0.	0.	0.	1.12-10
	0.	0.	0.	0.	0.	0.	0.	1.03-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	3.40-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	5.90-13
	0.	0.	0.	0.	0.	0.	0.	5.90-13

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AIR SCATTERING 6.10 02 ENERGY 7,00 ANGLE 6,00 01 DIST. 1.52 02
2.50 01 1.77 03 0. 0. 4.75 04 5.00 01 1.80 03

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02	
0.	0,	0.	0.	0,	0.	0,	4,34-08
0.	0,	0.	0.	0,	0.	0,	1,77-08
0.	0,	0.	0.	0,	0.	0,	5,28-09
0.	0,	0.	0.	0,	0.	0,	5,95-09
0.	0,	0.	0.	0,	0.	0.	3,38-09
0.	0,	0.	0.	0,	0.	0,	4,17-09
0.	0,	0.	0.	0,	0.	0.	3,48-09
0.	0,	0.	0.	0,	0.	0.	0,
0.	0,	0.	0.	0,	0.	0,	0,
0	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							1.15-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
2.09-12	3.67-12	1.16-10	1.29-10	1.32-11	1.11-13	6,49-24	2.76-08	1,95-08
8.79-11	2.64-11	1.78-10	3.20-11	7.55-12	2.47-13	5.89-27	1.13-08	6,53-09
4.00-11	1.69-10	9.09-11	4.57-11	1.05-11	1.06-14	1.12-27	3.38-09	2,39-09
4.16-10	1.31-10	6.72-11	4.22-11	9.26-11	4.29-13	1,76-24	3.83-09	1,74-09
7.11-10	1.64-10	6.12-11	6.62-11	6.18-12	1.66-13	3,62-25	2.22-09	1,25-09
2.68-10	2.52-10	1.65-10	1.03-10	4.28-11	2.09-13	3,55-27	2,70-09	1,03-09
3.61-10	6.21-10	2.56-10	3.76-11	2,06-11	8.24-14	1,94-27	2.57-09	4,64-10
4.85-10	4.38-10	3.18-10	2.21-10	1,20-11	1.73-14	1,22-25	3.47-10	2,29-10
5.68-10	3.54-10	1.72-10	4.48-11	4,28-11	2.04-14	3,26-25	1,79-10	1,08-10
1.91-10	1.49-11	6.76-11	1.37-10	3.98-11	8.21-16	4.76-25	2.15-11	1.03-11
6.89-10	5.46-10	3.26-10	1.56-10	6,34-11	2.93-13	1,15-24		
2.13-10	1.56-10	7.11-11	2.89-11	2.37-11	1.40-13	5.93-25	7.59-09	1.87-09

PHI 45 TO 90 DEGREES

0.	8,37-12	3.69-12	3.97-11	1,65-11	5.99-13	5.63-31	1,55-12	5,66-13
6.23-11	2.83-11	2.22-10	1.87-10	2,09-11	5.94-14	1.17-28	1.75-11	8,81-12
1.39-10	2,95-11	7.43-11	1.04-10	1,10-11	1.23-12	1,19-25	1.72-11	5,19-12
1.09-10	1.55-10	2.26-10	8.33-11	3,51-10	1.82-13	1,62-24	2,99-11	1,09-11
1.07-10	3,40-11	3.48-11	1.44-10	3,21-12	1,49-13	3,54-21	1.43-11	4,99-12
4.76-11	2.17-10	7.33-11	6.11-11	5,05-11	1.77-13	3,02-21	2.11-11	9,40-12
1.47-10	6,95-11	6.72-11	1.81-10	3,25-11	1.88-13	1,70-21	2,15-11	5,47-12
4.53-10	1,36-10	1.18-10	5.02-10	5,56-11	2.44-15	5,95-25	5,78-11	2,74-11
7.39-10	8,56-11	5.45-10	3.33-10	1,78-11	3.08-15	2,43-30	1,47-10	8,06-11
1.47-10	1.32-10	7.75-11	4.95-10	8.32-12	2.93-14	2.72-26	3.72-11	1.30-11
4.16-10	1.89-10	3.04-10	4.05-10	1,60-10	5.55-13	1,69-21		
1.47-10	5.58-11	1.03-10	1.30-10	1.18-10	3.35-13	1.24-21	7.38-11	1.73-11

PHI 90 TO 135 DEGREES

0.	2.23-12	9.54-11	5.13-12	2,58-12	5.01-13	9,67-26	3.30-12	2,94-12
3.25-12	2.28-10	4.35-11	6.19-11	1,18-09	5.07-13	7,58-25	2.97-11	1,67-11
2.06-11	3.06-10	8.16-10	8.91-11	1,16-10	2.22-14	1.43-27	4.64-11	2,80-11
1.45-11	5.06-11	9.36-11	2.41-10	1,35-10	1.19-11	6.44-24	1.34-11	5,01-12
2.83-11	1.47-11	3.33-10	2.09-10	2,15-10	1.17-11	3,24-22	2.06-11	8,26-12
2.24-11	5.75-11	3.51-11	1.54-10	4,09-12	6.22-13	7,32-26	8.93-12	3,63-12
1.87-11	1.27-10	6.19-11	3.84-11	1,60-11	5.90-15	9.34-23	1.08-11	4,20-12
3.82-11	3.99-11	8.03-11	1.47-11	7,67-12	1.33-14	7.02-25	8.02-12	2,39-12
5.32-10	3.85-11	7.73-11	2.07-11	9,05-11	3.42-14	4,52-26	4.85-11	3,70-11
1.85-10	8.96-11	3.78-11	5.32-10	1.82-11	4.93-13	6.31-26	3.14-11	1.56-11
1.39-10	2.15-10	3.82-10	2.27-10	3,43-10	6.19-12	8,91-23		
8.12-11	8.39-11	2.05-10	1.13-10	2.69-10	4.39-12	6.33-23	4.32-11	1.10-11

PHI 135 TO 180 DEGREES

0.	3,42-11	8.60-12	1.48-10	8,79-13	1.71-15	5.28-31	4,96-12	3,24-12
0.	5.48-10	1.13-10	2.43-10	1.72-12	7.52-15	2.11-26	3.59-11	2,61-11
0.	2,90-10	2.99-11	8.47-10	1,00-10	6.03-12	1,25-27	3,37-11	2,05-11
0.	3,16-10	1.19-11	5.85-11	8,07-12	4.72-14	2,46-23	1.74-11	1,46-11
7.59-15	7,47-10	6.11-11	4.48-11	1,68-12	3.05-14	1,03-26	4,02-11	3,00-11
4.11-13	1,86-10	8.46-11	2.36-11	1,15-10	2.47-13	3.93-26	1,40-11	8,02-12
6.33-12	1,01-10	2.80-10	1.77-11	3,33-11	5.13-13	2,41-23	1,53-11	7,53-12
5.47-12	6,00-11	5.70-11	1.17-10	1,83-11	1.27-13	8,32-24	7,84-12	2,38-12
2.41-11	9,78-11	2.75-11	2.50-11	1,61-11	1.97-13	2,51-31	8,74-12	2,96-12
2.29-10	7.90-12	1.02-11	3.00-11	2.28-12	9.78-16	0.	1.97-11	1.23-11
2.16-11	5,06-10	1,69-10	3,50-10	6,86-11	1,91-12	1,81-23		
9.57-12	1.81-10	8.47-11	2.36-10	3,67-11	1.61-12	8.98-24	4.04-11	1.20-11
							1.22-08	2.93-09

AIR SCATTERING 6.11 02 ENERGY 7.00 ANGLE 9.00 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.9T-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	0.	1.18-07	0.
4.00 01	0.	0.	0.	0.	0.	0.	3.07-08	4.06-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	4.94-08
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.59-08
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.25-08
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	1.25-08	3.58-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	0.	7.51-08	0.
4.00 01	0.	0.	0.	0.	0.	0.	1.96-08	2.58-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.15-08
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.46-08
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.50-08
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.89-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	7.49-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.30-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	7.93-09	2.39-08
	0.	0.	0.	0.	0.	0.	4.01-09	4.86-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.02-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	9.05-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	4.27-13
	0.	0.	0.	0.	0.	0.	0.	3.10-13

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.60-13
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	2.79-14
	0.	0.	0.	0.	0.	0.	0.	2.77-14

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.

27-01747260 1 306607361641

AIR SCATTERING 6.11 02 ENERGY 7.00 ANGLE 9.00 01 DIST. 1.52 02
2.00 01 1.77 03 0. 0. 4.80 04 5.00 01 1.80 03

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	2.12-08
0.	0.	0.	0.	0.	0.	0.	9.59-09
0.	0.	0.	0.	0.	0.	0.	4.94-09
0.	0.	0.	0.	0.	0.	0.	3.59-09
0.	0.	0.	0.	0.	0.	0.	2.25-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	5.82-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
1.60-13	1.80-11	1.67-11	1.27-09	2.11-11	2.58-16	7.71-28	1.35-08	9.57-09
1.60-10	6.49-11	8.69-10	5.86-11	1.38-11	7.34-13	7.42-25	6.15-09	3.09-09
4.40-10	7.82-11	2.04-10	6.22-11	3.55-11	2.09-14	1.31-23	3.19-09	1.23-09
5.08-10	5.98-11	1.15-10	6.10-11	1.26-10	1.66-13	2.73-26	2.51-09	5.21-10
5.26-10	1.16-10	4.39-11	7.36-11	9.16-12	2.94-14	5.81-23	1.55-09	1.59-10
1.21-09	9.81-10	1.81-09	6.91-11	5.66-11	3.76-13	5.88-22	5.95-10	1.34-10
7.19-10	1.22-10	1.92-10	1.63-10	1.14-11	1.10-14	9.01-23	8.07-11	2.60-11
8.40-11	6.57-11	2.54-10	1.46-10	9.74-12	7.11-13	1.41-24	2.13-11	6.44-12
5.09-11	3.35-11	5.32-10	7.60-11	4.94-12	2.65-14	1.81-23	2.27-11	1.60-11
6.18-11	1.67-11	4.09-11	8.02-11	1.19-11	2.41-13	1.49-31	8.85-12	3.60-12
8.78-10	3.07-10	7.91-10	2.58-10	7.34-11	4.69-13	1.49-22		
1.72-10	1.29-10	3.59-10	8.34-11	3.87-11	2.60-13	1.12-22	3.03-09	8.69-10

PHI 45 TO 90 DEGREES

2.51-12	2.19-10	7.97-11	2.11-10	1.59-11	2.52-14	1.43-28	1.81-11	7.45-12
8.58-10	7.32-11	4.06-11	2.57-11	5.41-11	2.37-14	1.46-27	7.48-11	5.83-11
5.99-10	1.95-10	9.39-11	7.64-11	5.24-11	9.81-14	2.81-26	6.29-11	4.34-11
8.44-10	3.29-10	3.00-10	1.16-10	1.11-11	1.72-12	3.17-25	9.61-11	5.97-11
1.36-10	1.57-10	2.75-10	3.87-11	8.33-12	9.30-13	3.85-22	2.84-11	1.04-11
1.13-10	2.73-10	1.67-10	9.06-11	2.36-11	1.51-13	6.22-26	3.02-11	1.38-11
5.34-11	7.05-11	1.00-10	7.08-11	2.46-11	9.70-14	3.56-23	1.35-11	3.38-12
5.56-11	1.65-10	3.53-10	2.76-10	1.05-11	8.18-14	1.05-22	2.98-11	1.18-11
6.72-11	7.36-10	7.47-10	7.42-11	3.71-12	3.41-14	1.42-27	6.77-11	3.75-11
6.78-11	3.13-11	3.38-10	1.70-09	1.08-12	1.71-13	1.62-29	5.18-11	3.44-11
6.79-10	4.56-10	4.88-10	3.10-10	4.50-11	8.52-13	1.06-22		
3.07-10	1.37-10	1.40-10	1.21-10	1.19-11	4.41-13	7.30-23	9.96-11	2.68-11

PHI 90 TO 135 DEGREES

5.23-13	5.19-10	6.79-11	3.16-10	2.02-11	3.31-15	1.22-27	3.48-11	1.84-11
8.50-10	1.61-11	4.94-11	9.02-11	3.04-11	4.03-14	1.60-27	7.26-11	6.78-11
8.53-11	1.02-10	4.61-11	9.49-11	5.61-11	9.03-14	7.52-24	1.60-11	6.34-12
2.72-11	2.43-10	8.60-11	3.30-11	1.61-11	5.25-14	1.73-25	1.80-11	8.04-12
1.56-13	2.24-10	1.17-10	2.20-10	1.24-11	1.28-14	9.38-25	1.95-11	1.05-11
9.94-12	1.35-10	6.44-11	1.44-10	6.11-12	3.50-15	1.12-22	1.26-11	5.74-12
1.03-10	1.24-11	1.95-11	3.94-11	1.16-10	1.16-13	2.90-20	1.18-11	5.24-12
1.01-10	2.15-11	4.70-10	1.17-11	2.03-11	1.16-13	9.11-25	2.47-11	1.51-11
1.02-10	1.28-10	1.65-10	4.06-11	1.97-10	1.62-15	5.57-25	2.32-11	8.92-12
1.13-10	5.35-11	7.56-12	4.98-11	2.33-10	1.34-14	4.48-28	1.60-11	9.67-12
2.66-10	2.38-10	2.45-10	1.60-10	1.21-10	1.21-13	9.48-21		
1.52-10	8.21-11	1.15-10	3.73-11	5.46-11	4.90-14	9.45-21	4.58-11	1.38-11

PHI 135 TO 180 DEGREES

2.76-11	4.21-11	2.13-10	1.30-10	1.04-10	5.63-15	3.90-35	1.51-11	6.29-12
9.21-12	2.82-10	5.55-11	4.29-11	3.35-11	2.61-13	9.79-28	1.79-11	8.98-12
1.23-11	1.96-10	6.01-11	3.28-11	2.16-12	2.01-14	4.46-28	1.34-11	4.80-12
1.44-10	2.05-10	5.83-10	1.72-11	6.58-12	2.55-14	6.73-28	4.02-11	2.16-11
0.	1.53-10	1.14-10	9.80-13	2.27-12	2.82-14	8.81-32	1.14-11	6.65-12
0.	7.48-10	6.32-10	1.08-11	6.59-12	3.30-14	2.37-28	5.79-11	5.51-11
1.99-14	2.81-10	2.88-11	1.56-11	4.04-12	4.22-13	2.27-24	1.53-11	1.28-11
1.45-12	9.61-11	4.53-11	5.08-10	3.33-11	5.73-13	2.14-27	1.70-11	7.12-12
1.06-11	1.36-10	8.97-10	3.27-11	2.98-10	4.05-14	4.57-23	4.09-11	2.75-11
1.39-11	7.90-11	3.13-11	4.53-10	1.04-11	6.43-15	3.69-26	1.53-11	9.38-12
5.67-11	4.73-10	5.31-10	2.05-10	7.90-11	3.67-13	8.67-24		
4.73-11	1.63-10	2.43-10	8.33-11	5.19-11	1.91-13	7.94-24	5.03-11	1.41-11

AIR SCATTERING 6.12 02 ENERGY 7.00 ANGLE 1.35 02 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	2.61-07
4.00 01	0.	0.	0.	0.	0.	0.	0.	9.15-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	9.10-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	3.41-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	1.66-07
4.00 01	0.	0.	0.	0.	0.	0.	0.	6.02-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.64-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.37-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.56-14
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.03-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	2.23-08
	0.	0.	0.	0.	0.	0.	0.	4.73-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.57-12
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.86-13
6.00 01	0.	0.	0.	0.	0.	0.	0.	4.88-12
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.56-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	6.55-14
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.58-12
	0.	0.	0.	0.	0.	0.	0.	9.46-13

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.82-12
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	5.93-13
	0.	0.	0.	0.	0.	0.	0.	5.93-13

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	0.

306607361641 066676436765

AIR SCATTERING 6.12 02 ENERGY 7.00 ANGLE 1.35 02 DIST. 1.52 02

3.00 01	1.76 03	0.	0.	4.72 04	5.00 01	1.80 03		

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
0.	0.	0.	0.	0.	0.	0.	2.61-08	
0.	0.	0.	0.	0.	0.	0.	9.15-09	
0.	0.	0.	0.	0.	0.	0.	9.10-10	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
							3.41-09	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.00-02	3.80-02	2.50-02	1.50-02		
6.08-11	4.53-11	5.40-11	5.54-11	4.42-12	1.47-13	2.33-29	1.66-08	7.07-09
5.44-10	1.39-10	1.29-10	4.67-11	1.10-11	1.53-12	4.24-22	6.08-09	1.19-09
4.74-10	1.53-10	6.70-09	5.54-11	1.86-11	4.05-13	1.37-22	9.26-10	2.21-10
6.98-10	1.16-10	6.40-11	9.27-11	3.57-11	3.16-14	4.52-24	7.98-11	2.08-11
1.26-10	6.42-11	1.99-10	3.06-10	6.17-11	1.57-13	3.86-29	2.66-11	8.29-12
3.14-10	1.18-10	1.30-10	1.48-10	2.55-11	1.70-14	1.89-23	3.95-11	1.95-11
9.60-11	1.31-10	5.57-11	1.00-10	2.05-11	3.30-13	2.21-26	1.83-11	5.60-12
7.93-11	5.03-11	8.32-11	1.24-11	8.00-12	1.47-14	1.33-24	1.19-11	4.40-12
2.45-11	4.90-10	5.52-11	4.36-11	8.80-12	4.93-15	2.14-22	2.92-11	1.64-11
3.95-14	1.18-10	8.83-12	1.43-11	1.50-12	2.29-14	1.21-27	6.50-12	4.47-12
5.85-10	2.85-10	1.94-09	1.80-10	4.44-11	5.37-13	1.52-22		
1.05-10	6.96-11	1.76-09	5.11-11	1.55-11	2.63-13	1.05-22	2.36-09	4.78-10

PHI 45 TO 90 DEGREES

6.52-11	2.46-10	2.80-10	5.54-10	2.14-12	3.28-13	4.45-31	3.78-11	1.78-11
2.50-10	7.24-11	1.66-10	3.41-11	6.56-12	1.58-14	8.75-26	2.98-11	7.32-12
3.44-10	3.37-10	3.16-10	1.00-10	3.36-11	1.38-14	1.01-23	5.74-11	1.78-11
1.99-10	4.14-10	3.70-10	6.40-11	4.87-12	4.69-14	2.65-21	4.98-11	2.23-11
5.13-11	6.20-11	2.04-11	2.55-11	5.27-12	9.10-14	1.22-25	8.44-12	2.87-12
3.95-11	1.71-10	2.51-10	5.61-11	7.57-12	1.18-13	5.82-25	2.10-11	6.73-12
1.20-10	6.66-11	4.16-11	3.78-11	2.80-11	5.96-13	5.10-26	1.54-11	5.18-12
9.36-12	2.55-10	7.68-11	4.33-11	3.49-12	1.73-13	1.51-25	1.68-11	9.72-12
1.09-13	1.29-11	1.31-11	9.02-12	4.74-12	2.04-13	2.07-29	1.32-12	3.81-13
0.	2.39-11	1.11-11	5.00-12	2.19-13	1.66-15	3.74-32	1.65-12	7.96-13
2.61-10	3.86-10	3.35-10	1.27-10	2.49-11	3.54-13	8.67-22		
6.16-11	1.12-10	9.75-11	3.69-11	1.12-11	1.98-13	8.55-22	5.39-11	9.76-12

PHI 90 TO 135 DEGREES

2.73-11	3.35-10	8.23-11	7.62-10	6.10-12	1.00-14	1.26-24	3.69-11	1.83-11
9.53-11	7.35-11	2.25-10	8.21-11	2.41-12	2.76-14	3.75-24	2.02-11	5.61-12
2.03-10	9.04-11	2.71-10	1.55-10	2.64-11	2.77-15	6.92-23	3.29-11	1.06-11
3.63-11	2.25-11	4.58-11	4.99-10	6.04-12	7.15-13	1.27-24	1.57-11	9.79-12
8.61-11	2.48-10	1.31-11	1.94-11	1.43-11	1.35-13	9.59-24	2.03-11	7.85-12
3.60-12	1.95-11	7.48-12	3.51-11	5.22-10	3.52-15	5.17-29	8.99-12	6.16-12
5.15-15	3.54-11	7.23-11	5.49-11	2.32-11	2.90-13	3.56-24	5.49-12	3.15-12
6.05-12	3.63-10	3.55-11	4.42-11	1.70-11	5.98-13	4.76-26	2.09-11	1.26-11
0.	5.09-10	2.91-11	3.24-11	1.13-12	1.45-13	8.78-28	2.71-11	2.39-11
0.	1.15-11	2.37-13	9.38-11	4.21-11	1.99-15	0.	3.00-12	2.02-12
1.01-10	3.08-10	1.73-10	3.15-10	1.18-10	5.43-13	2.24-23		
2.29-11	1.12-10	7.37-11	1.87-10	8.27-11	3.45-13	1.89-23	3.69-11	8.13-12

PHI 135 TO 180 DEGREES

4.41-11	4.36-11	5.66-11	3.92-11	7.10-12	1.99-16	2.80-23	8.39-12	2.52-12
4.03-11	1.71-11	2.93-10	4.14-11	1.52-11	7.64-15	1.47-28	1.45-11	5.96-12
3.96-11	9.81-11	1.10-10	1.00-09	6.27-12	1.84-14	4.83-22	3.17-11	1.83-11
1.30-11	1.02-10	9.39-11	5.35-10	4.27-11	8.92-15	5.53-25	2.04-11	9.58-12
4.13-13	9.52-11	7.93-11	1.29-10	9.62-12	6.13-15	9.85-23	1.00-11	4.55-12
3.40-12	3.57-11	6.27-12	3.53-10	5.89-12	3.37-15	6.50-28	9.39-12	6.78-12
7.26-16	5.95-11	2.58-11	2.37-11	3.61-12	1.41-13	1.56-22	4.33-12	1.88-12
2.61-12	5.18-12	6.64-11	8.96-11	2.19-11	3.23-14	3.00-23	4.67-12	1.90-12
0.	3.95-10	7.25-12	4.74-11	4.33-12	5.62-15	1.40-23	2.10-11	1.55-11
0.	3.01-13	1.19-12	7.81-12	1.18-12	3.12-14	0.	2.25-13	1.44-13
2.58-11	1.77-10	1.56-10	5.74-10	2.92-11	6.84-14	2.09-22		
6.94-12	6.18-11	4.09-11	3.11-10	1.19-11	4.85-14	1.41-22	2.78-11	7.39-12
							3.89-09	7.56-10

AIR SCATTERING 6.13 02 ENERGY 7.00 ANGLE 1.80 02 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	4.80-07
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	2.90-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	7.00	4.50	3.00	1.90	1.20	8.00-01	5.00-01	3.20-01
2.00 01	0.	0.	0.	0.	0.	0.	0.	3.13-07
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.70-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.25-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.89-08
	0.	0.	0.	0.	0.	0.	0.	3.06-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.75-16	1.98-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.91-12
6.00 01	0.	0.	0.	0.	0.	0.	0.	5.34-12
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	1.66-17	1.22-10
	0.	0.	0.	0.	0.	0.	1.39-17	9.00-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.88-19	3.56-09
4.00 01	0.	0.	0.	0.	0.	0.	2.60-15	1.98-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.24-13
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.88-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	4.51-16	2.18-10
	0.	0.	0.	0.	0.	0.	4.51-16	1.02-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.70-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.57-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	4.51-14
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	2.54-12	4.45-13
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.01-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	4.42-13	1.30-10
	0.	0.	0.	0.	0.	0.	4.42-13	5.59-11

247171125725 101027406401

AIR SCATTERING 6.13 02 ENERGY 7.00 ANGLE 1.80 02 DIST. 1.52 02

2.20 01	1.77 03	0.	0.	4.73 04	5.00 01	1.80 03		

FIRST COLLISION

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
0.	0.	0.	0.	0.	0.	0.	4.80-08	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
							2.90-09	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

2.20-01	1.40-01	9.00-02	5.80-02	3.80-02	2.50-02	1.50-02		
2.34-10	6.48-11	5.43-10	2.83-11	2.68-11	1.04-15	2.01-28	3.13-08	6.55-09
5.70-10	1.72-10	1.61-10	1.77-10	1.05-11	1.72-15	7.93-30	8.00-11	2.18-11
1.56-10	7.57-11	6.66-11	4.09-11	8.52-12	2.66-14	2.57-23	2.06-11	5.83-12
1.15-09	5.72-11	6.46-11	2.59-11	9.96-11	4.96-14	3.54-25	9.90-11	5.89-11
2.73-12	4.04-11	5.47-11	1.07-09	5.21-12	2.12-14	4.89-25	2.54-11	2.03-11
2.94-11	7.87-11	1.16-10	6.75-11	5.09-12	8.16-15	3.98-23	1.14-11	4.27-12
8.26-11	4.65-10	6.75-11	5.58-10	4.91-12	9.73-16	1.42-28	4.32-11	2.16-11
8.53-12	4.83-11	1.82-11	1.33-11	3.37-12	1.41-15	1.67-23	3.99-12	1.31-12
0.	2.13-11	1.89-11	1.28-11	3.64-11	3.29-16	1.04-27	2.40-12	9.54-13
7.98-14	3.36-11	1.43-11	1.56-11	5.79-12	2.18-15	4.43-31	2.53-12	1.34-12
5.66-10	2.64-10	1.60-10	4.38-10	4.92-11	2.96-14	1.84-23		
2.42-10	1.26-10	3.33-11	2.21-10	3.10-11	1.41-14	1.05-23	1.96-09	3.98-10

PHI 45 TO 90 DEGREES

1.70-10	5.56-10	3.30-10	2.71-11	1.05-11	1.07-13	1.49-29	2.50-10	1.51-10
5.08-10	2.15-10	3.80-11	2.60-10	4.32-10	1.56-13	1.59-27	6.40-11	2.11-11
1.70-10	8.87-10	7.03-11	7.14-11	1.80-10	1.05-14	3.97-26	6.45-11	4.12-11
5.33-10	4.77-11	3.10-10	2.73-11	3.50-11	1.20-12	3.70-25	5.60-11	3.76-11
4.01-11	1.45-11	6.74-11	2.22-10	4.43-11	7.10-16	9.64-27	1.11-11	5.01-12
3.59-11	3.34-10	1.60-11	3.08-11	2.24-11	1.00-13	1.71-25	2.10-11	1.68-11
3.56-11	1.93-11	3.98-11	1.49-11	1.63-11	1.38-13	1.45-25	5.60-12	1.81-12
9.80-12	7.55-11	3.86-11	6.53-11	5.15-13	4.04-15	1.30-27	7.11-12	2.20-12
1.08-10	2.19-10	2.45-11	5.94-10	4.27-11	1.38-14	0.	3.28-11	1.54-11
4.21-11	9.20-11	5.88-11	1.37-11	2.90-13	2.27-15	3.38-33	1.01-11	4.70-12
3.66-10	4.53-10	1.92-10	2.45-10	1.59-10	4.95-13	2.11-25		
1.57-10	2.27-10	6.90-11	1.44-10	9.16-11	3.91-13	8.01-26	7.72-11	2.48-11

PHI 90 TO 135 DEGREES

3.12-09	3.32-10	7.39-11	4.29-11	1.85-11	2.24-13	4.52-28	6.25-10	3.76-10
2.99-10	3.34-10	4.23-11	3.49-10	7.77-11	3.09-13	4.20-24	5.19-11	1.63-11
7.85-10	5.90-11	2.26-10	1.04-10	2.00-11	1.23-13	9.56-22	7.53-11	3.29-11
6.31-11	8.62-11	1.34-10	1.16-10	3.40-11	5.49-13	2.79-22	1.64-11	4.88-12
5.10-11	2.59-10	1.89-10	2.97-10	6.65-11	2.55-13	3.85-28	2.99-11	1.35-11
4.29-12	1.94-11	2.97-11	1.65-10	2.80-12	2.95-12	6.46-26	5.63-12	1.76-12
9.67-11	8.07-11	1.36-10	2.45-10	3.60-11	1.24-14	2.72-25	2.15-11	7.81-12
1.53-12	8.73-12	2.13-11	1.67-11	1.53-10	1.05-13	2.60-23	3.56-12	1.94-12
0.	2.45-09	4.42-11	2.11-11	5.73-11	9.17-16	1.32-22	1.25-10	1.07-10
0.	3.56-11	8.21-12	2.87-12	7.74-13	2.59-15	1.89-30	2.11-12	1.28-12
5.11-10	6.27-10	2.12-10	2.97-10	1.05-10	8.68-13	3.76-22		
2.08-10	3.78-10	7.06-11	1.16-10	4.47-11	6.61-13	2.71-22	1.08-10	3.14-11

PHI 135 TO 180 DEGREES

2.52-10	5.03-10	9.69-11	4.16-11	4.26-12	8.62-13	8.72-27	2.19-10	9.87-11
7.42-09	1.32-10	4.81-10	1.21-10	9.29-12	8.76-15	1.56-22	6.34-10	5.64-10
8.68-10	1.03-10	5.54-11	6.40-11	8.70-12	3.01-13	2.15-23	7.78-11	4.18-11
5.35-11	4.35-11	1.43-10	3.93-11	1.81-11	1.08-12	2.55-25	1.21-11	3.87-12
2.35-11	4.76-11	3.89-10	2.08-11	1.62-11	2.64-13	1.10-21	1.78-11	8.61-12
2.10-11	4.04-11	8.61-11	3.14-10	2.12-10	7.48-14	2.70-24	1.56-11	5.87-12
7.20-12	7.67-11	6.80-11	4.64-11	7.54-12	2.07-13	6.61-23	7.62-12	2.63-12
6.12-12	6.23-11	6.60-11	1.31-10	1.96-11	3.61-11	4.53-22	8.96-12	2.88-12
6.75-12	1.68-11	1.08-11	1.54-11	3.81-13	9.87-11	1.75-28	3.02-12	1.35-12
0.	8.58-11	1.09-10	1.01-11	3.79-12	2.11-15	2.98-30	8.02-12	4.20-12
1.57-09	1.60-10	2.82-10	1.65-10	5.76-11	2.74-11	3.67-22		
1.35-09	3.53-11	6.94-11	4.73-11	3.50-11	2.67-11	2.31-22	1.60-10	1.08-10
							3.62-09	6.58-10

AIR SCATTERING 6.14 02 ENERGY 4.00 ANGLE 1.00 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	5.53-05	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.88-05
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.21-05
	3.33-06	0.	0.	0.	0.	0.	0.	4.00-06

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	3.52-05	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.51-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	9.69-13
1.00 02	0.	0.	0.	0.	0.	0.	0.	8.59-14
1.20 02	0.	0.	0.	0.	0.	0.	0.	7.94-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.09-10
1.60 02	0.	0.	0.	0.	0.	3.37-13	7.78-12	1.20-05
1.80 02	0.	0.	0.	0.	0.	1.54-13	1.10-12	7.72-06
	2.12-06	0.	0.	0.	0.	6.78-14	1.42-12	2.54-06
	1.48-06	0.	0.	0.	0.	5.92-14	1.29-12	2.09-06

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	9.17-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	8.50-15
1.00 02	0.	0.	0.	0.	0.	0.	0.	7.69-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.60-10
1.40 02	0.	0.	0.	0.	0.	0.	7.47-14	2.50-10
1.60 02	0.	0.	0.	0.	0.	1.75-14	7.69-12	7.26-10
1.80 02	0.	0.	0.	0.	0.	3.19-12	4.12-10	1.91-09
	0.	0.	0.	0.	0.	1.95-13	2.62-11	6.61-10
	0.	0.	0.	0.	0.	1.39-13	2.44-11	3.10-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.31-12
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.25-15
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.22-08
1.00 02	0.	0.	0.	0.	0.	0.	0.	9.74-11
1.20 02	0.	0.	0.	0.	0.	0.	1.35-11	2.01-10
1.40 02	0.	0.	0.	0.	0.	8.48-13	1.85-10	2.88-09
1.60 02	0.	0.	0.	0.	3.46-13	6.91-15	3.93-12	5.19-10
1.80 02	0.	0.	0.	0.	0.	4.01-12	9.87-12	5.79-09
	0.	0.	0.	0.	6.02-14	4.69-13	5.48-11	3.41-09
	0.	0.	0.	0.	6.01-14	2.90-13	3.43-11	2.19-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.11-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.35-12
1.20 02	0.	0.	0.	0.	0.	0.	1.03-15	2.28-11
1.40 02	0.	0.	0.	0.	0.	1.74-12	2.15-11	2.01-10
1.60 02	0.	0.	0.	0.	0.	5.12-14	6.26-12	4.01-10
1.80 02	0.	0.	0.	0.	0.	6.14-13	5.74-12	1.60-09
	0.	0.	0.	0.	0.	5.08-13	7.14-12	2.28-10
	0.	0.	0.	0.	0.	4.60-13	3.30-12	5.48-11

1363003325 01 3403075451 35

AIR SCATTERING 6.14 02 ENERGY 4.00 ANGLE 1.00 DIST. 1.52 02
3.10 01 1.75 03 0. 0. 5.05 04 5.00 01 1.80 03

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	7.74-05
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.50-06
0.	0.	0.	0.	0.	0.	0.	9.70-07
0.	0.	0.	0.	0.	0.	0.	4.99-06

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
5.62-10	3.65-11	2.95-12	2.35-10	6.25-13	2.41-17	1.73-25	4.93-05	3.44-05
3.42-10	1.28-11	5.74-11	2.84-10	6.64-11	6.17-15	2.38-21	2.74-11	1.37-11
5.22-10	3.49-11	1.63-10	8.88-12	7.73-13	7.02-15	3.92-24	3.67-11	2.84-11
7.88-11	7.24-11	5.56-11	3.74-10	1.05-11	9.52-15	3.18-24	1.44-11	5.92-12
2.08-10	2.99-11	5.40-11	3.39-11	1.05-11	2.06-14	6.87-26	1.56-11	6.10-12
2.01-10	4.17-11	7.01-11	9.04-11	8.49-11	3.73-14	4.01-23	1.76-11	5.45-12
1.61-10	1.27-10	8.73-11	3.92-11	8.01-11	3.67-14	7.96-22	2.42-11	5.46-12
1.28-10	1.57-10	1.96-10	8.78-11	1.51-11	8.49-14	2.91-21	3.63-11	1.33-11
4.51-10	3.00-10	1.23-10	1.64-10	3.53-11	1.03-13	1.92-23	9.57-07	9.57-07
4.35-10	7.05-11	1.86-10	4.53-09	8.65-12	2.63-15	3.00 22	6.18-07	3.28-07
5.20-10	1.89-10	2.06-10	5.47-10	6.86-11	6.88-14	1.48-21		
1.43-10	3.83-11	5.19-11	2.96-10	3.34-11	2.66-14	1.10-21	3.17-06	2.08-06

PHI 45 TO 90 DEGREES

1.59-08	2.15-11	6.01-10	5.23-11	1.57-12	7.52-14	1.05-20	9.70-10	9.41-10
6.80-11	3.20-11	4.59-11	5.67-11	8.43-12	7.71-15	7.75-25	7.29-12	2.99-12
1.40-09	4.96-11	4.80-10	6.30-11	8.87-12	2.91-15	1.30-22	9.83-11	6.49-11
1.29-09	1.17-10	3.03-10	1.82-10	3.36-10	7.78-13	4.04-25	1.69-10	9.34-11
9.27-10	2.16-10	1.23-10	3.02-11	1.95-12	1.00-13	7.42-21	6.68-11	3.75-11
2.68-10	4.90-11	6.19-10	1.08-11	1.10-11	1.90-13	2.59-24	3.36-11	1.50-11
2.39-10	2.03-10	1.74-10	2.23-10	5.18-11	1.40-14	4.54-23	4.26-11	1.57-11
7.55-11	6.80-11	8.98-11	1.29-10	1.44-11	1.69-14	1.16-21	3.13-11	9.11-12
1.92-10	6.26-10	1.48-10	1.03-09	1.57-11	2.70-14	5.80-23	1.12-10	2.80-11
5.85-10	5.50-10	1.60-10	7.05-11	4.88-12	2.29-15	1.22-25	2.55-10	7.47-11
2.14-09	3.30-10	5.16-10	3.86-10	1.40-10	3.25-13	2.29-21		
1.05-09	8.82-11	1.55-10	1.49-10	7.69-11	1.74-13	1.48-21	2.16-10	6.81-11

PHI 90 TO 135 DEGREES

4.60-11	4.92-11	5.08-11	4.27-10	1.42-11	8.04-18	6.98-24	1.23-11	5.36-12
1.74-09	1.09-10	8.05-11	2.77-11	7.30-12	1.86-14	1.07-26	1.11-10	7.22-11
2.37-11	4.21-11	9.51-11	2.11-11	3.76-12	2.17-14	3.09-22	5.77-12	1.60-12
5.71-10	2.28-10	1.44-10	2.89-11	2.17-12	1.84-14	4.53-28	4.64-11	2.55-11
4.68-11	8.71-11	5.98-11	9.04-11	1.92-11	1.79-14	4.43-22	9.85-10	9.76-10
1.34-10	2.65-11	4.34-11	9.46-11	4.00-11	8.48-14	2.64-28	1.97-11	1.07-11
3.46-10	1.81-10	6.88-11	9.57-11	1.90-11	1.07-13	6.03-22	4.80-11	2.05-11
8.85-11	1.59-10	9.45-11	1.37-10	9.45-12	1.33-13	5.70-22	2.65-10	1.49-10
1.64-10	2.30-09	7.30-11	4.02-10	3.70-12	2.16-14	2.39-22	1.43-10	6.65-11
1.81-10	2.86-10	1.08-10	4.10-11	1.30-11	9.75-16	3.92-25	4.89-10	3.29-10
7.06-10	6.45-10	1.74-10	2.18-10	2.42-11	1.07-13	5.49-22		
2.59-10	3.19-10	3.28-11	5.04-11	6.13-12	4.07-14	2.12-22	3.52-10	1.77-10

PHI 135 TO 180 DEGREES

1.89-11	2.31-10	1.37-11	3.72-11	4.91-10	3.43-14	1.41-21	1.62-11	9.33-12
1.95-09	1.48-11	1.20-10	1.98-11	4.67-11	3.16-15	4.56-29	1.21-10	8.97-11
3.43-10	6.85-10	4.11-11	3.79-11	5.89-13	3.34-15	2.02-25	4.68-11	2.64-11
9.70-09	7.98-10	8.40-11	4.09-11	6.18-12	4.15-15	3.86-26	6.14-10	5.76-10
8.73-11	1.71-11	1.40-10	2.69-10	2.42-11	1.85-15	1.34-20	1.36-11	3.63-12
3.41-10	2.91-11	5.40-11	2.57-11	1.65-11	2.07-13	2.71-20	2.37-11	1.16-11
2.53-10	2.26-10	1.67-10	4.06-11	1.27-11	8.31-13	2.90-22	2.99-11	8.22-12
2.91-10	4.11-10	1.86-10	7.28-11	2.36-11	3.39-13	1.98-24	5.67-11	2.02-11
2.57-10	2.57-10	1.22-10	1.57-10	2.08-11	9.14-15	3.81-26	6.29-11	1.75-11
2.86-10	2.75-10	1.40-09	7.39-11	4.71-11	5.41-15	4.37-27	1.91-10	5.44-11
3.89-09	7.11-10	3.03-10	1.43-10	6.38-11	4.04-13	7.20-21		
3.15-09	2.92-10	9.14-11	3.11-11	3.19-11	2.80-13	5.32-21	2.88-10	1.89-10
							4.99-06	3.27-06

AIR SCATTERING 6.15 02 ENERGY 4.00 ANGLE 1.50 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	5.02-07	7.31-07	5.31-07	0.	0.	0.	0.	0.
4.00 01	0.	0.	1.89-07	2.80-07	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	2.70-07	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	2.27-07	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	3.04-07	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	2.11-07	0.
1.40 02	0.	0.	0.	0.	0.	0.	4.16-07	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	5.11-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	3.04-07
	3.03-08	4.41-08	6.49-08	4.86-08	7.18-08	1.27-07	1.80-07	1.07-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	3.20-07	4.65-07	3.38-07	0.	0.	0.	0.	0.
4.00 01	0.	0.	1.20-07	1.78-07	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	1.72-07	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	1.44-07	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.23-12
1.00 02	0.	0.	0.	0.	0.	1.94-07	0.	3.22-12
1.20 02	0.	0.	0.	0.	0.	0.	1.34-07	7.44-10
1.40 02	0.	0.	0.	0.	0.	0.	2.65-07	1.03-09
1.60 02	0.	0.	0.	0.	0.	0.	4.72-10	3.34-07
1.80 02	0.	0.	0.	0.	4.09-13	2.24-11	8.24-11	1.99-07
	1.93-08	2.61-08	4.13-08	3.09-08	4.57-08	8.07-08	1.14-07	7.05-08
	1.12-08	1.98-08	2.92-08	3.09-08	4.57-08	5.78-08	5.79-08	1.60-08

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.98-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.99-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	6.58-12
1.20 02	0.	0.	0.	0.	0.	0.	1.82-14	6.63-11
1.40 02	0.	0.	0.	0.	0.	9.92-14	0.	4.56-09
1.60 02	0.	0.	0.	0.	0.	5.40-14	2.58-13	6.04-09
1.80 02	0.	0.	0.	0.	0.	9.80-12	8.09-11	4.07-09
	0.	0.	0.	0.	0.	6.27-13	4.93-12	2.59-09
	0.	0.	0.	0.	0.	4.02-13	4.69-12	1.39-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.70-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	6.39-14
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.73-11
1.40 02	0.	0.	0.	0.	0.	0.	3.67-12	1.32-10
1.60 02	0.	0.	0.	0.	0.	6.34-13	3.23-12	1.12-09
1.80 02	0.	0.	0.	0.	0.	2.76-14	2.16-11	2.14-09
	0.	0.	0.	0.	0.	1.12-13	2.84-12	3.73-10
	0.	0.	0.	0.	0.	7.43-14	1.26-12	1.42-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.69-14
1.20 02	0.	0.	0.	0.	0.	0.	4.12-13	1.44-10
1.40 02	0.	0.	0.	0.	0.	1.09-11	6.76-14	2.78-11
1.60 02	0.	0.	0.	0.	0.	2.16-13	6.57-12	6.75-10
1.80 02	0.	0.	0.	0.	0.	0.	1.09-12	6.44-10
	0.	0.	0.	0.	0.	2.94-12	1.36-12	2.11-10
	0.	0.	0.	0.	0.	2.91-12	1.20-12	9.25-11

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AIR SCATTERING 6.15 02 ENERGY 4.00 ANGLE 1.50 01 DIST. 1.52 02
3.10 01 1.75 03 0. 0. 5.04 04 5.00 01 1.80 03

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	1.61-06
0.	0.	0.	0.	0.	0.	0.	2.25-07
0.	0.	0.	0.	0.	0.	0.	6.75-08
0.	0.	0.	0.	0.	0.	0.	4.53-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	6.08-08
0.	0.	0.	0.	0.	0.	0.	2.11-08
0.	0.	0.	0.	0.	0.	0.	4.16-08
0.	0.	0.	0.	0.	0.	0.	4.09-08
0.	0.	0.	0.	0.	0.	0.	2.44-08
0.	0.	0.	0.	0.	0.	0.	2.06-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
7.81-12	4.39-12	3.05-10	4.28-12	2.48-11	1.67-12	9.16-26	1.02-06	4.21-07
1.91-11	5.31-11	5.92-11	1.42-11	1.52-12	3.58-13	3.11-24	1.43-07	1.01-07
2.06-10	4.68-10	1.40-10	9.79-11	3.16-11	3.41-12	9.25-26	4.30-08	4.29-08
3.86-09	5.74-11	1.16-10	1.38-10	5.43-11	4.53-14	1.90-26	2.91-08	2.89-08
7.20-11	9.12-11	3.83-10	3.45-11	7.42-12	1.59-15	5.60-22	1.77-11	8.42-12
4.49-10	2.60-09	5.42-11	2.08-11	1.51-11	4.57-14	4.33-22	3.89-08	3.87-08
5.26-10	3.05-10	1.31-10	1.87-10	1.54-11	1.19-13	2.58-22	1.36-08	1.34-08
2.12-10	8.71-10	5.95-10	1.15-10	9.79-12	4.10-14	1.40-24	2.66-08	1.42-08
7.21-10	5.22-10	9.60-11	1.38-10	9.84-12	5.33-15	1.59-24	2.68-08	7.33-09
2.29-10	2.63-10	9.68-10	3.65-10	8.42-11	3.68-15	5.56-27	1.60-08	1.87-09
1.78-09	1.02-09	4.56-10	2.21-10	4.62-11	1.14-12	2.58-22		
1.24-09	3.43-10	1.58-10	5.42-11	1.37-11	9.90-13	1.31-22	1.31-07	3.53-08

PHI 45 TO 90 DEGREES

8.62-10	5.58-11	9.34-11	1.69-11	2.53-12	4.37-13	1.91-24	5.63-11	4.90-11
3.01-11	2.79-11	1.77-11	7.42-12	7.86-11	4.63-15	6.69-22	4.29-12	1.58-12
1.53-09	1.24-10	5.56-11	9.97-11	5.63-12	3.83-13	1.72-21	9.93-11	9.01-11
1.36-10	3.26-11	1.42-10	2.14-10	7.80-12	9.49-14	8.81-22	1.61-11	4.65-12
2.78-10	1.10-10	6.44-11	5.84-11	4.57-12	7.89-15	1.37-24	3.67-11	2.15-11
1.72-10	9.97-11	2.73-10	9.13-11	8.18-12	3.00-14	7.24-21	2.25-11	5.74-12
1.15-10	1.99-10	1.06-10	3.52-11	3.28-11	1.74-14	1.62-21	2.28-11	6.13-12
1.14-10	1.82-10	2.77-10	8.88-11	2.41-11	4.15-14	8.18-23	3.87-10	3.22-10
2.60-09	5.99-09	2.56-10	9.55-11	3.16-11	1.65-15	1.69-23	7.91-10	4.65-10
3.66-10	4.69-09	1.27-10	5.48-11	1.01-12	1.08-15	1.04-23	6.02-10	2.84-10
1.16-09	1.18-09	2.89-10	1.80-10	4.27-11	1.84-13	2.67-21		
5.56-10	7.88-10	4.23-11	5.04-11	1.71-11	1.26-13	1.45-21	3.30-10	1.26-10

PHI 90 TO 135 DEGREES

5.53-12	4.35-12	6.09-11	9.17-11	4.34-12	1.27-16	2.31-30	3.31-12	1.58-12
1.03-09	7.57-11	4.89-09	2.57-10	1.10-11	1.93-13	1.34-25	1.86-10	1.23-10
2.74-11	1.79-10	5.73-11	7.83-10	1.18-11	3.70-14	7.79-21	2.14-11	9.05-12
3.81-10	5.74-10	1.66-10	2.37-10	6.58-12	1.88-12	1.04-20	5.25-11	2.01-11
4.75-10	8.69-10	7.22-10	2.30-10	4.72-11	3.16-14	4.50-21	8.11-11	3.40-11
2.71-09	3.64-10	2.54-10	5.69-10	3.31-11	3.58-11	1.38-19	1.91-10	9.11-11
1.10-09	2.16-10	7.06-10	2.99-10	2.65-11	1.15-13	1.47-23	9.79-11	3.23-11
3.71-10	6.85-11	2.24-10	7.41-11	1.02-11	2.12-14	2.34-28	4.23-11	1.12-11
7.55-10	5.94-10	3.09-10	8.28-11	9.36-12	1.06-15	1.09-22	1.65-10	5.78-11
1.95-10	7.79-09	2.61-10	1.48-10	3.87-11	1.72-16	3.97-25	4.75-10	2.84-10
1.47-09	1.12-09	1.45-09	6.15-10	3.67-11	6.93-12	3.03-20		
4.24-10	4.85-10	8.25-10	2.43-10	1.08-11	6.25-12	2.76-20	2.03-10	3.99-11

PHI 135 TO 180 DEGREES

4.62-13	2.91-12	2.86-12	3.01-11	4.35-12	5.86-13	1.31-26	7.09-13	4.46-13
1.81-10	3.46-10	1.16-10	2.71-10	5.23-12	4.35-13	2.99-19	3.02-11	1.08-11
2.83-10	1.11-10	7.55-11	5.35-11	3.68-11	1.35-15	1.93-21	2.41-11	9.25-12
7.65-10	8.88-11	5.93-11	1.10-10	3.26-10	4.98-16	8.99-25	5.61-11	3.46-11
2.96-11	4.75-11	2.33-10	1.22-10	3.32-12	1.96-15	6.88-23	1.09-11	5.36-12
1.85-09	7.18-11	4.44-11	3.38-11	1.76-11	8.27-16	1.89-26	1.15-10	9.11-11
2.39-10	1.46-09	3.59-10	1.39-10	4.24-12	4.29-15	5.02-21	8.91-11	4.91-11
1.05-10	2.31-10	1.80-10	7.24-11	8.91-12	1.99-14	2.45-24	2.45-11	6.11-12
3.50-10	1.49-10	1.91-10	1.18-10	4.66-12	1.88-12	2.99-21	8.75-11	3.94-11
8.63-11	2.73-10	1.81-10	1.87-10	7.15-12	2.56-14	1.84-29	7.38-11	1.97-11
8.55-10	7.19-10	3.17-10	2.23-10	1.26-10	4.46-13	5.44-20		
3.35-10	4.19-10	8.29-11	7.44-11	9.80-11	3.35-13	5.14-20	1.07-10	2.69-11
							2.07-07	5.55-08

AIR SCATTERING 6.16 02 ENERGY 4.00 ANGLE 3.00 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	4.31-07	2.18-07	0.	0.	0.	0.
4.00 01	0.	0.	0.	1.47-07	1.09-07	0.	0.	0.
6.00 01	0.	0.	0.	0.	6.53-08	7.19-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	4.96-08	8.12-08	0.
9.00 01	0.	0.	0.	0.	0.	0.	1.22-07	0.
1.00 02	0.	0.	0.	0.	0.	0.	9.73-08	0.
1.20 02	0.	0.	0.	0.	0.	0.	1.42-07	0.
1.40 02	0.	0.	0.	0.	0.	0.	4.87-08	1.20-07
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.14-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	2.80-08	3.86-08	3.63-08	3.53-08	1.24-07	5.17-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	2.74-07	1.39-07	0.	0.	0.	0.
4.00 01	0.	0.	0.	9.34-08	6.95-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	4.15-08	4.57-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	3.16-08	5.17-08	4.75-10
9.00 01	0.	0.	0.	0.	0.	0.	7.79-08	6.12-11
1.00 02	0.	0.	0.	0.	0.	0.	6.19-08	8.85-11
1.20 02	0.	0.	0.	0.	0.	0.	9.01-08	5.91-10
1.40 02	0.	0.	0.	0.	0.	0.	3.10-08	7.97-08
1.60 02	0.	0.	0.	0.	0.	6.78-12	1.94-11	7.67-08
1.80 02	0.	0.	0.	0.	0.	2.66-12	1.69-12	1.90-09
	0.	0.	1.66-08	2.46-08	2.31-08	2.25-08	7.88-08	3.50-08
	0.	0.	9.55-09	1.42-08	1.64-08	1.59-08	2.81-08	5.73-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.84-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.32-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.95-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.37-10
1.40 02	0.	0.	0.	0.	0.	0.	2.31-11	1.24-09
1.60 02	0.	0.	0.	0.	0.	3.25-15	4.91-12	2.53-09
1.80 02	0.	0.	0.	0.	4.32-16	1.43-12	0.	8.04-10
	0.	0.	0.	0.	2.61-17	8.66-14	7.01-12	9.36-10
	0.	0.	0.	0.	2.60-17	7.93-14	6.20-12	3.35-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.86-12
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.50-12
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.53-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	4.41-12
1.20 02	0.	0.	0.	0.	0.	0.	8.10-13	6.96-11
1.40 02	0.	0.	0.	0.	0.	0.	7.47-11	1.17-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.45-09
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.02-08
	0.	0.	0.	0.	0.	0.	2.01-11	9.22-10
	0.	0.	0.	0.	0.	0.	1.98-11	4.93-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	7.89-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.16-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.18-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.55-11
1.60 02	0.	0.	0.	0.	0.	0.	1.02-12	1.44-10
1.80 02	0.	0.	0.	0.	0.	0.	1.91-11	7.91-10
	0.	0.	0.	0.	0.	0.	1.33-12	1.07-10
	0.	0.	0.	0.	0.	0.	1.16-12	3.74-11

12404500 3501 24026631 5465

AIR SCATTERING 6.16 02 ENERGY 4.00 ANGLE 3.00 01 DIST. 1.52 02
3.40 01 1.75 03 0. 0. 5.07 04 5.00 01 -1.80 03

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	3.46-07
0.	0.	0.	0.	0.	0.	0.	8.60-08
0.	0.	0.	0.	0.	0.	0.	3.07-08
0.	0.	0.	0.	0.	0.	0.	1.80-08
0.	0.	0.	0.	0.	0.	0.	1.22-08
0.	0.	0.	0.	0.	0.	0.	9.73-09
0.	0.	0.	0.	0.	0.	0.	1.42-08
0.	0.	0.	0.	0.	0.	0.	1.45-08
0.	0.	0.	0.	0.	0.	0.	9.09-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							6.37-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
4.36-11	4.50-11	3.51-12	8.10-08	2.86-11	1.66-15	4.55-28	2.21-07	1.10-07
9.67-11	4.78-11	1.36-10	6.44-11	2.30-12	4.92-14	1.95-22	5.47-08	3.16-08
4.88-10	1.39-09	2.42-10	7.57-11	9.94-12	6.72-14	4.37-25	1.96-08	1.38-08
1.86-10	1.45-10	5.75-11	3.99-11	1.94-11	4.21-13	1.65-24	1.15-08	8.16-09
6.53-11	6.72-11	5.98-11	2.57-10	4.48-11	1.36-14	2.39-22	7.81-09	7.79-09
3.51-10	5.32-11	1.23-10	2.84-10	6.97-11	1.05-13	1.14-23	6.23-09	6.19-09
2.36-10	2.85-10	3.19-10	2.94-10	9.68-12	5.59-13	5.07-21	9.09-09	4.19-09
2.15-10	9.00-10	1.01-09	1.50-10	1.92-11	2.33-14	5.05-24	9.55-09	2.44-09
2.21-10	5.04-10	2.87-10	1.35-10	1.63-11	9.11-15	9.52-25	6.18-09	7.16-10
8.15-11	4.11-10	6.33-11	1.07-10	2.45-11	4.74-16	2.31-26	1.80-10	8.23-11
4.60-10	8.94-10	5.64-10	5.19-09	4.36-11	3.75-13	1.73-21		
1.08-10	2.80-10	1.56-10	4.88-09	1.34-11	2.02-13	1.65-21	4.09-08	9.97-09

PHI 45 TO 90 DEGREES

2.76-10	1.00-10	3.22-11	4.32-12	2.64-11	1.31-16	1.62-28	2.13-11	1.54-11
1.15-09	1.15-11	5.58-11	1.28-10	2.60-12	9.63-15	4.11-25	7.29-11	6.34-11
1.06-09	2.96-09	1.58-10	1.24-10	6.14-09	1.91-15	1.61-17	2.49-10	1.32-10
8.64-11	1.29-10	4.15-10	6.49-11	2.31-11	2.34-12	1.47-21	2.11-11	5.21-12
5.64-10	1.69-09	8.85-11	6.22-11	1.41-10	1.32-14	6.37-25	1.09-10	5.33-11
4.59-10	3.79-10	2.49-10	1.72-11	1.54-10	2.52-13	2.00-23	4.94-11	1.64-11
1.70-10	2.93-10	4.56-10	1.38-10	5.94-11	3.44-15	4.27-21	6.15-11	1.91-11
4.55-10	1.81-10	1.14-09	1.25-10	3.83-11	8.04-13	8.60-20	1.65-10	6.33-11
2.52-10	1.41-09	2.80-09	1.01-10	1.89-11	8.08-15	1.75-26	3.38-10	1.48-10
2.05-10	7.63-10	2.36-10	1.01-10	1.72-12	9.49-14	1.35-26	1.12-10	3.57-11
9.55-10	1.63-09	1.20-09	1.92-10	1.73-09	1.03-12	4.29-18		
2.95-10	8.10-10	7.35-10	4.11-11	1.63-09	7.39-13	4.27-18	2.44-10	5.77-11

PHI 90 TO 135 DEGREES

1.23-11	1.00-11	1.37-11	6.24-12	2.18-11	7.74-17	0.	1.78-12	7.29-13
2.90-10	2.93-10	5.62-11	9.27-12	4.57-12	2.52-17	1.16-23	2.95-11	1.38-11
2.56-10	2.13-10	1.19-10	1.52-09	4.75-11	3.06-14	5.11-26	4.94-11	2.45-11
2.57-10	5.89-11	1.30-10	5.60-10	1.53-10	1.29-14	2.17-21	3.10-11	1.30-11
1.89-10	2.58-10	5.11-11	5.34-09	6.28-13	1.25-15	4.14-26	1.02-10	8.08-11
7.32-10	9.05-10	3.65-10	5.09-11	9.56-11	2.12-14	4.04-23	8.75-11	7.47-11
3.76-10	4.71-11	1.72-10	1.87-10	1.34-11	2.91-14	2.89-23	3.70-11	1.28-11
6.82-09	8.40-10	1.08-10	7.59-11	2.93-11	1.59-13	1.82-22	4.60-10	3.99-10
4.31-10	4.44-10	2.62-10	1.57-10	1.58-10	6.79-14	3.68-20	1.69-10	6.56-11
2.82-10	2.39-10	1.08-10	1.12-10	1.41-11	8.37-15	1.73-22	8.44-10	6.26-10
2.39-09	6.60-10	2.94-10	1.64-09	1.22-10	8.03-14	7.18-21		
1.78-09	2.34-10	8.35-11	1.33-09	5.88-11	3.89-14	6.44-21	2.76-10	1.16-10

PHI 135 TO 180 DEGREES

2.98-10	5.45-10	1.50-11	2.05-11	7.53-14	2.82-20	1.71-26	3.82-11	2.01-11
9.73-11	7.39-11	8.36-11	6.00-12	4.42-14	1.24-13	9.33-29	1.06-11	3.76-12
3.43-10	1.69-09	8.55-11	2.07-11	1.06-10	4.18-15	8.62-20	8.50-11	6.00-11
8.52-11	4.57-10	3.64-10	2.38-09	1.05-09	2.85-11	6.59-22	8.51-11	5.17-11
2.37-11	1.13-11	1.58-10	2.92-11	5.32-11	1.35-11	7.36-22	6.81-12	2.43-12
6.41-11	4.36-10	4.85-10	4.58-11	1.87-11	7.83-13	2.98-25	3.24-11	1.67-11
1.02-09	3.34-10	3.96-10	9.11-11	1.33-11	2.54-14	1.50-23	8.52-11	5.92-11
1.98-10	9.38-11	8.61-11	9.16-11	9.44-12	8.34-14	9.73-26	2.01-11	7.40-12
6.75-10	1.42-10	5.07-10	6.85-11	2.85-12	4.26-14	1.63-22	7.04-11	3.31-11
5.76-11	9.08-10	1.00-10	2.42-11	2.33-12	9.80-14	8.02-21	1.04-10	4.09-11
6.75-10	9.35-10	5.15-10	8.64-10	3.91-10	1.18-11	2.38-20		
3.39-10	4.55-10	1.78-10	6.53-10	3.39-10	1.17-11	2.31-20	1.13-10	3.15-11
							6.52-08	1.57-08

AIR SCATTERING 0.17 02 ENERGY 4.00 ANGLE 0.0 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	3.06-07	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	1.10-07	0.	0.
6.00 01	0.	0.	0.	0.	0.	3.72-08	5.83-08	0.
8.00 01	0.	0.	0.	0.	0.	0.	8.63-08	0.
9.00 01	0.	0.	0.	0.	0.	0.	6.85-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	3.43-08	3.63-08
1.20 02	0.	0.	0.	0.	0.	0.	0.	7.09-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	1.85-08	2.89-08	6.15-08	2.94-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	1.95-07	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	6.98-08	0.	0.
6.00 01	0.	0.	0.	0.	0.	2.37-08	3.71-08	4.05-11
8.00 01	0.	0.	0.	0.	0.	0.	5.50-08	8.08-11
9.00 01	0.	0.	0.	0.	0.	0.	4.36-08	5.25-09
1.00 02	0.	0.	0.	0.	0.	0.	2.18-08	2.35-08
1.20 02	0.	0.	0.	0.	0.	0.	5.99-13	4.08-08
1.40 02	0.	0.	0.	0.	0.	2.89-13	2.45-12	9.49-10
1.60 02	0.	0.	0.	0.	0.	0.	8.31-11	8.33-10
1.80 02	0.	0.	0.	0.	0.	0.	9.20-13	3.14-11
	0.	0.	0.	0.	1.17-08	1.54-08	3.92-08	2.17-08
	0.	0.	0.	0.	6.78-09	8.30-09	1.09-08	2.88-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.29-15
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.14-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.58-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.00-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	5.70-11
1.40 02	0.	0.	0.	0.	0.	0.	3.02-13	4.74-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	7.07-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.06-10
	0.	0.	0.	0.	0.	0.	8.04-14	3.30-10
	0.	0.	0.	0.	0.	0.	7.75-14	1.21-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	9.27-11	1.13-12
1.40 02	0.	0.	0.	0.	0.	0.	4.89-12	1.85-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.95-12
1.80 02	0.	0.	0.	0.	0.	0.	4.62-12	1.46-11
	0.	0.	0.	0.	0.	0.	3.18-11	5.17-11
	0.	0.	0.	0.	0.	0.	3.03-11	4.90-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	5.35-15
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.57-11
1.80 02	0.	0.	0.	0.	0.	0.	2.12-12	0.
	0.	0.	0.	0.	0.	0.	1.28-13	1.14-11
	0.	0.	0.	0.	0.	0.	1.28-13	1.12-11

AIR SCATTERING 6.17 02 ENERGY 4.00 ANGLE 6.00 01 DIST. 1.52 02
2.90 01 1.76 03 0. 0. 5.06 04 5.00 01 1.80 03

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	7.65-08
0.	0.	0.	0.	0.	0.	0.	2.19-08
0.	0.	0.	0.	0.	0.	0.	1.33-08
0.	0.	0.	0.	0.	0.	0.	8.63-09
0.	0.	0.	0.	0.	0.	0.	6.85-09
0.	0.	0.	0.	0.	0.	0.	6.34-09
0.	0.	0.	0.	0.	0.	0.	5.67-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							1.89-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
7.98-10	1.56-11	3.57-11	2.03-11	8.50-12	2.17-17	1.45-26	4.87-08	2.81-08
2.37-10	3.17-10	1.40-11	1.48-10	4.65-11	4.05-15	1.07-24	1.40-08	8.07-09
2.72-09	1.33-10	1.44-10	2.58-10	1.29-11	9.22-15	4.67-25	8.99-09	4.29-09
1.11-09	1.61-10	3.01-10	1.35-10	2.74-11	3.69-13	3.06-20	5.58-09	2.29-09
1.72-10	1.77-10	1.11-10	1.34-10	4.21-11	6.11-14	1.90-21	4.80-09	2.00-09
3.82-10	2.61-09	2.66-10	5.52-10	2.38-11	2.94-13	2.10-22	4.20-09	1.38-09
2.45-10	4.94-10	2.05-10	8.70-11	3.38-10	8.62-14	1.01-23	4.02-09	5.08-10
1.77-10	5.89-10	4.15-09	7.04-11	3.81-11	7.68-14	3.74-23	2.09-10	9.82-11
1.92-10	1.61-10	1.02-10	2.97-11	3.12-11	2.27-12	3.02-26	9.55-11	3.13-11
9.72-11	3.34-10	4.51-10	3.70-11	8.29-13	1.23-13	1.50-29	3.18-11	1.31-11
3.04-09	9.93-10	1.42-09	3.13-10	1.58-10	6.27-13	1.04-20		
2.22-09	4.56-10	1.06-09	7.70-11	8.41-11	4.21-13	9.97-21	1.25-08	2.63-09

PHI 45 TO 90 DEGREES

9.65-11	9.75-11	2.76-10	2.59-10	3.12-12	2.39-14	3.15-25	1.98-11	8.40-12
1.06-09	5.68-11	2.22-10	1.85-11	1.02-09	7.29-15	2.90-24	8.32-11	3.47-11
1.75-10	5.86-11	2.57-10	1.79-10	1.15-10	3.56-13	1.46-21	2.28-11	6.84-12
5.15-09	6.78-09	5.74-11	4.50-11	2.73-11	9.31-16	4.84-26	5.57-10	5.23-10
8.35-09	7.90-10	1.29-10	3.68-11	3.08-11	3.63-15	7.52-24	5.33-10	4.87-10
2.83-10	4.68-10	1.05-10	1.66-10	1.10-10	2.82-14	3.20-24	6.25-11	2.79-11
2.20-10	1.02-09	8.63-11	5.75-10	1.74-10	3.94-13	2.49-22	6.74-11	3.60-11
1.01-10	4.30-10	2.54-10	2.23-10	1.58-10	2.69-14	8.20-24	7.08-11	1.96-11
1.87-10	1.71-10	1.44-10	5.75-09	6.65-11	9.91-15	1.52-23	1.64-10	6.88-11
1.76-11	1.90-10	1.42-10	9.95-11	3.32-13	2.60-16	3.84-27	2.13-11	1.07-11
3.55-09	2.95-09	3.12-10	1.37-09	3.52-10	1.47-13	4.78-22		
2.98-09	2.15-09	6.51-11	7.21-10	1.79-10	8.67-14	3.97-22	3.78-10	2.56-10

PHI 90 TO 135 DEGREES

1.10-10	4.53-10	2.80-11	1.22-11	6.45-11	7.53-13	9.02-22	2.46-11	1.51-11
2.41-09	2.27-10	2.80-10	6.32-11	4.20-11	4.26-15	1.30-20	1.61-10	1.18-10
1.16-10	4.36-10	3.47-10	1.07-09	9.67-12	8.79-14	5.82-29	4.09-11	1.48-11
2.48-10	4.55-10	1.17-09	2.39-10	5.82-11	1.13-13	4.18-26	6.34-11	2.87-11
2.82-09	8.23-10	3.25-11	3.98-11	5.73-11	9.44-16	8.42-27	1.93-10	1.35-10
1.06-10	3.73-11	1.64-10	1.71-10	2.23-10	1.07-13	1.26-22	1.69-11	5.64-12
1.22-10	8.07-11	3.24-11	3.86-11	6.27-11	4.15-14	2.52-23	2.10-11	1.04-11
3.21-10	1.24-10	1.94-10	5.00-11	2.76-11	7.66-16	5.69-23	4.49-11	1.96-11
9.94-10	1.08-10	1.06-09	1.54-10	1.26-11	5.37-14	4.61-25	9.18-11	5.57-11
4.18-11	4.14-11	1.19-10	1.94-10	3.53-12	6.71-16	2.64-33	1.14-11	3.71-12
1.35-09	4.67-10	8.11-10	4.72-10	1.12-10	1.48-13	2.36-21		
5.86-10	1.05-10	4.01-10	2.34-10	4.71-11	6.22-14	2.31-21	1.33-10	3.92-11

PHI 135 TO 180 DEGREES

2.49-11	1.15-10	2.19-09	1.03-10	8.70-12	2.62-13	1.04-32	5.99-11	5.12-11
3.16-11	8.81-11	1.13-10	2.10-10	3.38-11	2.35-15	2.21-25	1.13-11	3.77-12
2.66-10	9.28-11	1.61-10	2.05-10	1.97-11	8.92-14	5.68-28	2.65-11	7.59-12
4.46-10	3.27-10	1.69-10	6.40-10	1.40-11	8.10-14	3.20-21	5.23-11	2.30-11
7.69-10	9.51-11	1.48-10	4.68-11	1.43-11	1.81-13	6.82-26	5.40-11	3.06-11
1.52-10	1.35-10	3.13-10	5.91-11	3.15-12	3.54-14	5.07-25	2.24-11	6.39-12
8.73-11	1.57-10	1.96-10	9.32-11	5.10-12	2.29-15	1.47-23	1.71-11	4.51-12
4.90-10	1.20-10	1.28-10	1.44-10	2.67-11	1.92-12	1.09-22	3.93-11	1.09-11
4.07-10	2.61-10	4.58-09	3.55-11	1.81-12	1.06-13	3.41-27	1.49-10	1.09-10
1.51-11	5.34-11	5.37-10	4.75-11	4.26-12	2.15-14	2.06-27	1.67-11	1.21-11
6.13-10	3.25-10	1.25-09	4.02-10	2.85-11	6.34-13	1.08-21		
2.01-10	1.28-10	8.00-10	1.57-10	8.29-12	5.30-13	1.04-21	8.59-11	2.36-11
							2.06-08	4.17-09

AIR SCATTERING 6.18 02 ENERGY 4.00 ANGLE 9.00 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	0.	1.95-07	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	1.49-07	0.
6.00 01	0.	0.	0.	0.	0.	0.	8.80-08	0.
8.00 01	0.	0.	0.	0.	0.	0.	1.71-08	5.10-08
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.72-08
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	1.17-08	5.48-08	2.48-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	0.	1.24-07	0.	9.17-12
4.00 01	0.	0.	0.	0.	0.	0.	9.47-08	3.74-09
6.00 01	0.	0.	0.	0.	0.	0.	5.60-08	5.05-09
8.00 01	0.	0.	0.	0.	0.	0.	1.09-08	3.69-08
9.00 01	0.	0.	0.	0.	0.	0.	1.16-11	3.24-08
1.00 02	0.	0.	0.	0.	0.	0.	1.69-11	2.45-09
1.20 02	0.	0.	0.	0.	0.	0.	7.47-13	2.59-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.93-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.05-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	3.29-12
	0.	0.	0.	0.	0.	7.47-09	3.49-08	2.12-08
	0.	0.	0.	0.	0.	4.32-09	9.03-09	2.87-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.66-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.09-10
8.00 01	0.	0.	0.	0.	0.	0.	2.20-11	4.38-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	9.87-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.45-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.84-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.00-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	9.00-11
1.80 02	0.	0.	0.	0.	0.	0.	2.09-11	0.
	0.	0.	0.	0.	0.	0.	8.43-12	1.97-10
	0.	0.	0.	0.	0.	0.	7.27-12	6.01-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.47-14
1.00 02	0.	0.	0.	0.	0.	0.	6.00-14	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.11-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	8.66-11
	0.	0.	0.	0.	0.	0.	1.04-14	1.35-11
	0.	0.	0.	0.	0.	0.	1.04-14	9.78-12

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	9.69-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.24-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	6.98-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	2.01-12
	0.	0.	0.	0.	0.	0.	0.	1.70-12

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AIR SCATTERING 6.18 02 ENERGY 4.00 ANGLE 9.00 01 DIST. 1.52 02
4.00 01 1.75 03 0. 0. 5.04 04 5.00 01 1.80 03

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	3.89-08
0.	0.	0.	0.	0.	0.	0.	1.49-08
0.	0.	0.	0.	0.	0.	0.	8.80-09
0.	0.	0.	0.	0.	0.	0.	5.79-09
0.	0.	0.	0.	0.	0.	0.	3.77-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							9.81-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
3.06-10	4.28-10	1.03-10	4.20-11	6.40-13	2.11-15	2.13-33	2.48-08	1.43-08
4.26-10	1.53-10	5.65-10	8.61-11	8.47-12	5.64-14	3.26-24	9.81-09	4.29-09
2.97-10	6.28-10	1.82-10	1.77-10	3.49-11	2.27-14	1.36-24	6.12-09	1.89-09
2.44-10	2.76-10	3.55-10	9.06-11	2.38-11	1.58-12	1.49-22	4.08-09	7.25-10
9.80-11	8.33-10	2.53-10	1.75-10	2.42-12	2.22-14	8.25-22	2.63-09	2.40-10
2.04-10	3.17-10	4.10-10	2.29-10	2.26-11	3.19-14	8.25-23	2.35-10	1.10-10
1.22-10	2.99-10	3.03-10	2.64-10	8.40-12	2.26-14	1.11-18	2.37-10	1.47-10
1.10-09	5.63-10	1.59-10	2.63-10	1.18-11	1.78-14	1.90-22	1.14-10	4.54-11
2.01-10	3.37-10	1.67-10	7.80-11	1.81-11	1.05-13	4.01-25	3.80-11	1.19-11
6.01-12	2.14-10	8.92-10	5.80-11	5.82-12	1.65-14	3.11-23	3.07-11	1.76-11
6.93-10	7.76-10	6.08-10	3.38-10	3.29-11	5.73-13	3.63-19		
1.95-10	1.53-10	1.23-10	9.13-11	7.08-12	5.13-13	3.62-19	6.77-09	1.29-09

PHI 45 TO 90 DEGREES

1.40-09	1.54-11	3.38-11	2.53-11	1.95-11	1.88-15	1.02-23	8.56-11	5.19-11
5.26-10	1.45-10	2.61-10	1.90-10	1.94-11	2.91-13	1.14-24	5.94-11	2.73-11
4.88-10	7.40-10	7.03-10	2.74-11	2.13-11	4.18-14	8.87-24	8.22-11	2.80-11
1.97-10	3.12-10	1.20-10	3.86-11	7.75-12	1.38-12	7.89-22	3.23-11	8.34-12
1.41-10	4.35-10	1.13-10	1.92-10	3.88-12	4.41-13	6.13-21	3.05-11	1.33-11
1.05-09	1.53-10	2.70-10	4.35-10	4.19-12	5.44-14	3.20-22	1.01-10	5.30-11
7.88-10	4.30-10	1.03-10	3.37-11	6.08-12	2.76-14	4.93-19	8.05-11	3.04-11
6.43-10	2.89-10	4.92-11	6.28-11	6.79-12	3.59-14	1.22-26	4.08-11	1.37-11
2.21-10	5.15-10	2.68-11	5.57-11	3.30-11	9.79-16	3.34-25	4.09-11	1.65-11
1.88-10	2.95-11	2.68-10	1.03-11	3.65-12	3.24-15	2.13-25	2.11-11	1.26-11
1.00-09	7.36-10	4.08-10	2.01-10	2.33-11	6.16-13	1.62-19		
2.58-10	2.11-10	1.77-10	7.34-11	7.66-12	4.53-13	1.59-19	1.16-10	2.27-11

PHI 90 TO 135 DEGREES

5.55-10	4.22-13	3.46-11	1.35-12	5.64-13	8.50-14	1.06-27	1.21-12	7.56-13
5.33-10	4.94-09	1.18-10	1.13-10	1.13-11	3.74-14	3.19-25	2.14-10	1.76-10
2.11-09	2.15-10	6.18-11	9.48-11	5.33-12	1.06-12	1.73-18	1.37-10	8.26-11
1.22-09	2.70-10	1.90-10	3.86-11	6.80-12	2.55-14	6.11-21	8.84-11	4.86-11
1.59-10	1.62-10	6.72-11	7.81-11	1.32-11	2.32-13	6.37-25	1.83-11	7.23-12
1.16-11	2.07-10	2.94-11	1.44-10	1.05-11	2.86-15	5.36-29	1.11-11	4.69-12
3.28-11	4.21-11	2.51-10	2.67-11	4.72-12	3.72-15	2.99-22	9.97-12	4.07-12
2.66-10	2.56-10	5.16-11	1.23-10	1.31-11	1.34-14	1.53-25	3.09-11	1.36-11
1.96-10	1.22-10	6.78-11	5.04-11	2.74-12	1.26-15	2.51-27	1.86-11	7.97-12
3.70-11	7.18-10	4.74-11	4.19-11	1.90-11	1.01-15	7.02-20	3.70-11	2.40-11
1.20-09	1.21-09	2.28-10	1.49-10	1.64-11	3.47-13	4.67-19		
4.56-10	8.49-10	6.92-11	4.33-11	4.31-12	2.03-13	4.62-19	1.25-10	4.15-11

PHI 135 TO 180 DEGREES

6.51-11	3.02-11	1.94-10	5.14-11	1.83-11	2.66-15	1.25-29	1.06-11	5.35-12
3.12-10	3.63-10	8.16-11	9.75-11	1.58-11	1.36-13	4.48-24	3.54-11	1.86-11
2.90-10	8.74-12	4.66-11	1.21-10	1.05-11	1.15-12	2.83-25	2.08-11	8.93-12
6.63-11	8.43-11	1.71-10	1.06-10	4.24-11	2.64-13	2.14-24	1.32-11	5.52-12
5.00-11	1.08-11	4.06-10	5.28-11	2.91-11	1.18-13	1.04-16	1.50-11	9.07-12
7.45-11	8.79-12	1.03-10	1.86-10	8.31-12	2.40-13	4.38-25	1.01-11	3.46-12
2.35-10	8.83-11	6.84-11	9.83-11	1.38-11	5.40-14	2.14-18	2.06-11	1.11-11
6.90-10	7.86-12	1.25-10	1.54-10	1.61-11	7.12-15	1.11-22	4.73-11	3.12-11
8.31-12	3.37-11	4.22-11	1.29-10	5.32-12	1.16-13	5.33-23	4.74-12	2.54-12
3.34-11	1.76-10	9.62-11	2.29-10	3.65-12	3.96-14	3.12-37	1.41-11	7.21-12
4.43-10	1.46-10	2.30-10	2.38-10	3.68-11	5.01-13	1.88-17		
1.62-10	5.80-11	1.13-10	6.64-11	1.26-11	3.18-13	1.88-17	4.20-11	1.07-11
							1.11-08	2.04-09

AIR SCATTERING 8.19 02 ENERGY 4.00 ANGLE 1.35 02 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	0.	0.	4.53-07	0.
4.00 01	0.	0.	0.	0.	0.	0.	1.09-08	1.82-07
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.87-08
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	2.92-08	3.66-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	0.	0.	2.89-07	1.83-10
4.00 01	0.	0.	0.	0.	0.	0.	6.96-09	1.19-07
6.00 01	0.	0.	0.	0.	0.	0.	9.44-12	1.48-08
8.00 01	0.	0.	0.	0.	0.	0.	0.	5.66-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.16-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.59-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.62-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.37-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	1.86-08	2.50-08
	0.	0.	0.	0.	0.	0.	6.52-09	3.52-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	3.81-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	6.16-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	8.14-10
8.00 01	0.	0.	0.	0.	0.	0.	5.61-12	1.10-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.69-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.39-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.32-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	1.83-12	3.85-10
	0.	0.	0.	0.	0.	0.	1.83-12	9.89-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	6.14-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.12-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.02-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.09-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.07-10
	0.	0.	0.	0.	0.	0.	0.	4.40-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	4.21-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.21-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.61-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.73-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.32-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	5.17-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	8.19-11
	0.	0.	0.	0.	0.	0.	0.	6.97-11

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AIR SCATTERING 6.19 02 ENERGY 4.00 ANGLE 1.35 02 DIST. 1.52 02

3.80 01	1.76 03	0.	0.	5.04 04	5.00 01	1.80 03		

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
0.	0.	0.	0.	0.	0.	0.	4.53-08	
0.	0.	0.	0.	0.	0.	0.	1.57-08	
0.	0.	0.	0.	0.	0.	0.	1.49-09	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							5.86-09	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
1.30-10	1.51-10	3.46-10	2.89-11	3.18-12	2.10-12	4.79-27	2.89-08	1.06-08
1.89-10	4.23-10	1.29-10	1.21-10	1.51-11	7.33-15	1.66-22	1.03-08	1.75-09
8.62-11	5.19-10	1.78-10	7.74-11	2.34-11	1.86-14	8.99-25	1.22-09	9.91-11
3.86-10	2.25-10	1.83-10	9.16-11	1.89-11	3.25-14	4.79-23	8.26-11	2.40-11
1.06-10	1.83-09	2.70-10	3.87-11	7.69-10	7.91-14	2.75-23	1.14-10	6.25-11
1.35-10	1.21-10	6.93-11	2.86-11	1.31-11	1.18-14	3.13-26	2.80-11	1.09-11
8.91-10	1.54-10	2.64-10	4.71-10	1.13-11	1.02-13	5.35-23	9.29-11	5.19-11
1.76-10	7.17-11	4.71-11	2.94-10	1.03-11	6.21-15	1.65-23	1.90-11	8.27-12
2.83-10	1.23-10	3.52-11	8.09-11	1.31-12	5.34-18	1.39-24	2.35-11	9.07-12
8.20-10	3.38-11	2.98-10	2.93-12	1.23-10	2.57-18	1.99-31	5.91-11	4.84-11
6.68-10	7.26-10	3.35-10	3.18-10	1.65-10	1.95-13	7.81-23		
2.82-10	3.00-10	6.74-11	1.29-10	1.32-10	1.31-13	3.97-23	3.95-09	7.13-10

PHI 45 TO 90 DEGREES

6.32-11	1.82-10	1.82-10	1.73-10	9.35-13	9.56-13	5.17-25	4.78-11	1.69-11
1.85-10	6.39-10	1.87-10	1.50-10	1.39-11	8.22-14	1.61-24	9.01-11	2.65-11
6.79-10	3.67-10	1.16-10	6.60-11	7.72-12	1.44-14	3.92-25	1.23-10	3.13-11
4.28-10	7.06-10	4.96-11	9.30-11	1.60-11	8.51-15	8.96-24	6.32-11	1.71-11
1.02-10	8.97-11	8.10-10	3.86-11	6.45-12	4.70-14	7.91-27	2.96-11	1.43-11
2.20-10	1.32-10	6.39-10	4.88-11	1.04-11	5.22-14	2.27-25	3.52-11	1.24-11
1.27-10	7.06-10	9.33-10	2.66-11	3.58-12	1.25-13	6.43-28	5.59-11	4.11-11
8.16-11	2.09-10	1.20-10	5.06-11	1.23-10	5.06-14	1.32-26	1.75-11	7.39-12
5.76-11	1.93-10	1.25-11	7.09-11	2.58-12	3.67-14	8.91-29	1.18-11	4.21-12
2.54-12	4.21-11	2.30-10	5.59-10	3.03-13	6.47-13	1.90-27	1.54-11	9.27-12
4.85-10	8.11-10	6.94-10	1.67-10	4.69-11	1.96-13	3.38-24		
9.98-11	2.98-10	2.78-10	4.09-11	3.03-11	8.82-14	2.49-24	1.09-10	2.01-11

PHI 90 TO 135 DEGREES

5.86-11	6.69-11	3.66-10	3.90-11	4.80-11	1.96-13	6.37-22	6.50-11	3.28-11
1.83-10	5.57-10	8.83-11	4.04-11	4.19-11	4.16-15	7.25-24	3.75-11	1.70-11
9.65-10	2.05-10	9.80-11	1.01-10	2.52-11	6.01-14	5.49-22	7.76-11	3.94-11
6.13-11	1.07-10	2.23-10	1.23-11	7.78-12	1.33-12	2.89-23	2.19-11	7.52-12
5.03-10	2.83-10	2.52-10	7.11-11	6.32-12	1.06-14	3.90-23	4.76-11	2.01-11
1.31-10	1.78-10	9.87-12	6.70-11	2.58-10	3.40-14	9.58-22	1.86-11	8.65-12
1.91-10	1.74-10	2.33-11	2.89-11	2.20-11	3.79-14	2.88-22	1.90-11	1.13-11
2.26-10	3.16-11	1.48-10	8.02-11	4.96-11	1.50-13	5.14-23	2.00-11	1.05-11
4.54-10	8.86-11	2.80-11	5.53-11	7.87-12	5.89-17	1.96-28	3.20-11	1.77-11
3.48-12	7.00-12	5.31-11	6.58-11	1.77-11	1.67-16	1.02-36	2.93-12	1.15-12
6.23-10	3.52-10	2.37-10	1.09-10	8.82-11	5.24-13	4.76-22		
1.99-10	1.02-10	6.37-11	2.77-11	4.51-11	4.47-13	2.49-22	6.70-11	1.38-11

PHI 135 TO 180 DEGREES

9.58-11	1.39-10	3.85-10	1.39-11	9.40-11	5.49-17	4.71-23	2.47-11	1.07-11
8.15-11	1.68-10	1.68-11	6.47-11	1.66-11	2.99-16	3.43-24	1.43-11	5.82-12
6.14-10	2.11-10	8.63-11	4.33-11	7.34-12	9.79-16	7.11-23	6.81-11	3.54-11
2.22-10	1.17-10	6.64-11	1.48-10	2.04-10	2.47-15	1.52-25	2.52-11	1.24-11
5.24-11	4.89-12	4.61-11	2.65-11	3.72-12	7.68-14	1.65-24	5.06-12	2.63-12
2.90-09	8.33-10	2.77-11	3.10-11	1.10-11	2.89-15	4.64-24	1.98-10	1.30-10
1.21-11	2.43-10	1.33-10	2.54-11	1.03-11	1.41-13	3.63-24	1.32-11	7.93-12
2.22-10	8.50-11	9.71-11	2.26-10	3.96-12	7.14-14	2.01-24	2.14-11	8.78-12
2.20-10	7.43-10	3.13-11	7.96-12	4.06-11	2.24-14	4.24-25	4.13-11	2.30-11
7.46-11	2.47-12	7.29-12	3.79-11	7.07-11	5.46-15	6.75-28	6.16-12	4.55-12
8.75-10	4.68-10	1.59-10	1.54-10	9.54-11	8.41-14	2.53-23		
3.75-10	1.73-10	3.98-11	6.84-11	5.84-11	4.70-14	1.92-23	8.31-11	2.60-11
							6.61-09	1.14-09

AIR SCATTERING 6.20 02 ENERGY 4.00 ANGLE 1.80 02 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	0.	.	0.	1.04-06
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	6.26-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	4.00	2.60	1.80	1.20	8.00-01	5.50-01	3.50-01	2.50-01
2.00 01	0.	0.	0.	0.	0.	0.	1.95-11	6.64-07
4.00 01	0.	0.	0.	0.	0.	0.	5.52-14	4.10-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	7.06-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.63-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.55-13
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	1.19-12	4.03-08
	0.	0.	0.	0.	0.	0.	8.79-13	7.46-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	3.61-12	6.30-09
4.00 01	0.	0.	0.	0.	0.	0.	2.34-14	6.70-10
6.00 01	0.	0.	0.	0.	0.	0.	5.93-14	4.43-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.50-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.25-13
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.93-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.19-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	2.37-13	1.72-09
	0.	0.	0.	0.	0.	0.	1.26-13	1.08-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	3.14-12	1.00-08
4.00 01	0.	0.	0.	0.	0.	0.	2.02-19	5.86-10
6.00 01	0.	0.	0.	0.	0.	0.	4.84-16	3.65-10
8.00 01	0.	0.	0.	0.	0.	0.	2.33-14	4.94-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.91-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.70-13
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.95-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	1.97-13	8.32-10
	0.	0.	0.	0.	0.	0.	1.07-13	5.49-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.89-11	6.87-09
4.00 01	0.	0.	0.	0.	0.	0.	7.91-11	1.29-09
6.00 01	0.	0.	0.	0.	0.	0.	2.70-11	3.78-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.38-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.66-13
1.20 02	0.	0.	0.	0.	0.	0.	0.	7.05-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	2.27-11	1.05-09
	0.	0.	0.	0.	0.	0.	1.53-11	3.57-10

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AIR SCATTERING 6.20 02 ENERGY 4.00 ANGLE 1.80 02 DIST. 1.52 02
3.10 01 1.76 03 0. 0. 5.06 04 5.00 01 1.80 03

FIRST COLLISION

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	8.31-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	5.01-09

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.70-01	1.10-01	7.40-02	5.00-02	3.50-02	2.30-02	1.50-02		
1.22-10	4.88-10	5.21-11	3.25-10	3.28-10	3.25-15	1.11-21	5.31-08	9.87-09
9.60-10	3.27-10	2.49-10	2.02-10	1.01-10	5.30-15	1.48-25	1.12-10	4.86-11
1.28-10	4.18-10	2.23-10	6.17-11	7.93-11	3.10-12	1.83-23	7.93-11	3.17-11
1.08-10	1.78-10	3.66-10	1.26-10	1.56-11	9.99-14	7.16-27	2.50-11	7.27-12
8.20-10	1.39-10	7.75-11	4.80-10	6.59-12	4.02-15	4.40-30	6.34-11	3.50-11
5.04-10	3.50-10	9.90-11	3.60-10	8.01-12	8.54-16	1.35-25	5.07-11	1.99-11
7.92-10	4.78-10	9.78-11	5.91-11	4.61-11	1.21-13	2.04-23	6.13-11	2.19-11
4.99-11	2.63-10	2.23-10	1.64-11	6.49-11	2.99-14	4.39-23	1.88-11	8.92-12
3.67-11	2.30-11	2.56-11	1.13-10	6.56-11	1.59-15	5.52-26	6.12-12	2.43-12
6.05-13	1.60-11	7.68-11	8.59-11	6.71-11	8.27-18	2.70-34	4.55-12	2.63-12
7.51-10	4.41-10	3.56-10	3.06-10	1.14-10	9.08-13	9.03-23		
2.19-10	1.00-10	9.48-11	1.05-10	4.81-11	7.61-13	6.57-23	3.30-09	5.08-10

PHI 45 TO 90 DEGREES

5.07-10	1.54-09	1.27-10	2.33-10	6.15-12	1.82-14	9.66-26	5.96-10	2.34-10
7.71-11	2.18-10	1.50-10	2.69-10	2.68-11	1.22-13	1.11-24	7.40-11	2.18-11
1.79-10	2.31-10	1.52-10	5.58-10	1.32-11	2.76-12	5.86-28	3.85-10	3.21-10
7.64-10	7.28-11	1.73-10	2.22-10	3.42-12	6.78-15	4.39-28	6.80-11	1.96-11
5.62-11	4.62-10	2.24-11	1.05-09	6.02-12	1.32-15	2.36-22	3.64-11	1.90-11
6.07-11	4.53-10	1.04-09	5.55-11	2.64-10	2.86-12	3.60-25	4.91-11	2.05-11
1.49-10	3.32-09	6.82-11	1.47-10	8.84-11	3.80-14	3.91-21	1.33-10	1.12-10
3.11-10	3.18-10	1.28-10	1.73-10	3.34-11	4.93-15	2.81-27	3.62-11	1.43-11
2.51-10	1.57-11	7.42-11	6.74-11	1.18-11	4.36-15	3.26-26	1.85-11	1.15-11
3.37-11	1.44-12	3.30-11	3.44-11	6.31-12	2.12-15	1.40-31	3.46-12	1.69-12
5.38-10	1.55-09	3.86-10	5.82-10	9.66-11	1.27-12	1.32-21		
1.28-10	1.02-09	1.23-10	1.97-10	6.32-11	8.79-13	1.28-21	2.45-10	9.58-11

PHI 90 TO 135 DEGREES

2.27-10	3.20-10	2.48-10	5.80-10	1.62-11	5.38-14	1.76-20	8.41-10	7.22-10
3.90-10	2.66-10	2.58-10	1.37-10	8.36-12	1.01-13	3.27-21	8.82-11	2.90-11
5.19-10	2.50-10	2.21-10	1.31-10	1.51-11	2.26-14	3.91-23	7.67-11	2.10-11
1.60-10	6.42-10	2.71-09	7.07-11	1.16-11	6.39-14	1.53-24	1.03-10	7.76-11
2.31-09	9.78-11	1.10-10	7.21-11	5.46-11	7.49-16	6.83-22	1.47-10	1.18-10
6.03-11	3.79-11	2.30-10	8.02-11	6.96-12	7.73-14	4.65-21	1.18-11	3.38-12
1.88-10	9.46-11	9.94-11	2.77-11	5.99-12	1.46-15	5.15-22	2.07-11	8.53-12
8.57-11	1.79-11	5.18-11	5.53-11	2.66-11	3.68-15	1.67-25	8.18-12	2.30-12
1.84-10	2.58-10	3.90-11	3.50-11	2.49-11	7.87-15	1.13-24	2.21-11	1.57-11
3.22-10	2.20-10	3.12-10	6.22-11	1.46-11	3.32-18	0.	3.58-11	2.08-11
6.19-10	4.59-10	1.13-09	1.76-10	3.52-11	6.41-14	2.73-21		
3.55-10	1.85-10	7.89-10	3.37-11	9.36-12	2.63-14	1.81-21	1.62-10	5.52-11

PHI 135 TO 180 DEGREES

9.35-11	6.65-10	2.09-10	8.48-11	1.24-11	2.28-12	2.88-24	5.89-10	3.84-10
1.61-09	5.26-10	8.68-11	1.08-10	2.13-11	1.35-13	1.87-22	2.30-10	1.07-10
6.01-10	1.97-10	1.89-10	1.08-10	1.64-11	6.28-14	1.65-25	8.24-11	2.67-11
4.09-10	2.00-10	8.94-10	2.30-10	3.04-11	2.25-14	2.03-26	7.61-11	2.15-11
8.04-11	2.99-10	6.54-10	3.71-10	1.97-11	1.12-13	2.62-26	3.71-11	1.23-11
5.01-10	2.84-10	4.87-10	8.98-10	1.18-10	9.36-14	1.10-25	6.69-11	2.74-11
1.69-10	4.93-10	3.68-10	3.33-10	1.77-11	1.06-14	1.49-25	9.83-11	4.25-11
3.88-10	9.44-11	1.49-09	4.86-09	1.27-11	8.48-15	7.65-22	1.31-10	9.85-11
1.82-11	2.27-11	3.24-11	8.81-12	7.50-09	1.06-13	3.07-28	9.29-11	8.98-11
7.28-10	1.81-10	6.58-13	5.27-12	2.15-11	3.98-14	0.	5.04-11	4.12-11
8.84-10	5.43-10	1.09-09	1.70-09	1.36-09	2.48-13	2.36-22		
2.77-10	1.24-10	6.33-10	1.11-09	1.32-09	1.61-13	2.05-22	2.27-10	5.89-11
							6.18-09	1.03-09

AIR SCATTERING 6.21 02 ENERGY 2.00 ANGLE 1.00 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	7.94-05	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	4.52-05	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	2.27-05	0.
1.80 02	0.	0.	0.	0.	0.	0.	3.00-05	0.
	4.79-06	0.	1.20-05	0.	0.	0.	5.76-06	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	5.06-05	0.	0.	0.	0.	0.	0.	1.29-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.84-10
6.00 01	0.	0.	2.88-05	0.	0.	0.	0.	1.04-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.08-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	7.64-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	8.23-10
1.20 02	0.	0.	0.	0.	0.	5.22-12	5.27-10	7.28-10
1.40 02	0.	0.	0.	0.	0.	0.	6.19-10	3.35-10
1.60 02	0.	0.	0.	0.	0.	6.01-13	1.45-05	3.96-10
1.80 02	0.	0.	0.	0.	0.	4.04-12	1.91-05	2.99-10
	3.05-06	0.	7.86-06	0.	0.	2.05-12	3.67-06	1.01-09
	1.72-06	0.	7.66-06	0.	0.	1.71-12	2.57-06	2.34-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	9.95-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	4.23-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.70-09
9.00 01	0.	0.	0.	0.	0.	0.	2.32-12	1.04-09
1.00 02	0.	0.	0.	0.	0.	0.	7.45-11	2.94-10
1.20 02	0.	0.	0.	0.	0.	5.89-09	3.10-10	1.57-09
1.40 02	0.	0.	0.	0.	0.	0.	1.13-09	5.00-10
1.60 02	0.	0.	0.	0.	9.98-14	6.32-12	5.02-09	3.42-10
1.80 02	0.	0.	0.	0.	0.	5.20-11	4.96-08	3.93-10
	0.	0.	0.	0.	1.73-14	1.93-09	4.28-09	2.30-09
	0.	0.	0.	0.	1.73-14	1.92-09	1.74-09	9.98-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	3.93-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.31-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.47-11
8.00 01	0.	0.	0.	0.	0.	0.	6.48-13	1.78-10
9.00 01	0.	0.	0.	0.	0.	0.	1.18-11	1.18-09
1.00 02	0.	0.	0.	0.	0.	0.	2.65-12	1.12-10
1.20 02	0.	0.	0.	0.	0.	8.92-13	7.60-11	6.95-10
1.40 02	0.	0.	0.	0.	0.	5.13-12	2.73-10	4.25-10
1.60 02	0.	0.	0.	2.71-12	4.22-12	2.94-11	1.28-09	1.17-09
1.80 02	0.	0.	0.	0.	4.45-09	3.88-10	6.25-09	5.67-10
	0.	0.	0.	4.71-13	2.69-10	3.02-11	6.99-10	8.82-10
	0.	0.	0.	4.70-13	2.67-10	2.24-11	1.99-10	2.20-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.66-12
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.85-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	5.79-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	7.77-10
9.00 01	0.	0.	0.	0.	0.	0.	8.19-11	2.46-10
1.00 02	0.	0.	0.	0.	0.	0.	4.80-12	1.80-10
1.20 02	0.	0.	0.	0.	0.	5.41-13	2.77-11	1.89-09
1.40 02	0.	0.	0.	0.	0.	1.18-13	1.42-09	3.29-10
1.60 02	0.	0.	0.	0.	4.08-12	1.16-11	2.47-09	1.94-10
1.80 02	0.	0.	0.	5.59-13	2.31-10	7.21-12	1.30-08	8.97-10
	0.	0.	0.	3.37-14	1.46-11	2.65-12	1.61-09	1.28-09
	0.	0.	0.	3.37-14	1.25-11	1.21-12	5.97-10	3.79-10

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AIR SCATTERING 6.21 02 ENERGY 2.00 ANGLE 1.00 DIST. 1.52 02
4.00 01 1.75 03 0. 0. 5.38 04 5.00 01 1.80 03

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	4.76-05
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.81-05
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.59-06
0.	0.	0.	0.	0.	0.	0.	2.10-06
0.	0.	0.	0.	0.	0.	0.	
							8.09-06

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
4.36-10	5.08-11	7.36-10	1.06-10	1.74-12	1.86-15	1.12-23	3.03-05	1.71-05
3.46-10	2.12-10	1.82-10	2.63-11	3.86-12	6.16-16	2.96-25	4.07-11	1.51-11
3.73-10	9.21-11	3.89-10	2.38-10	5.16-12	2.24-17	4.99-25	1.15-05	1.15-05
6.99-10	2.78-11	3.75-10	1.03-09	2.04-12	3.72-16	1.98-25	6.36-11	2.29-11
4.39-10	2.48-10	5.30-10	1.18-10	1.89-12	4.43-16	3.18-25	7.17-11	2.63-11
9.62-10	1.93-10	2.03-09	7.19-11	1.96-12	1.25-16	3.43-23	1.22-10	5.11-11
4.90-10	1.80-10	4.30-10	8.12-11	4.25-12	4.32-16	3.77-24	1.05-10	4.05-11
3.31-10	2.60-10	1.26-10	2.95-10	2.25-11	7.48-17	1.88-26	8.39-11	1.66-11
8.31-10	3.89-10	1.00-10	5.78-11	9.35-12	1.63-14	5.59-22	1.01-06	1.01-06
1.42-09	6.44-10	1.60-10	1.29-09	6.50-11	2.59-17	1.34-25	1.34-06	6.44-07
1.13-09	3.84-10	9.48-10	6.36-10	1.64-11	3.44-15	1.05-22		
2.50-10	7.00-11	4.05-10	3.33-10	6.23-12	2.88-16	9.61-23	5.15-06	3.24-06

PHI 45 TO 90 DEGREES

1.81-11	1.29-10	3.00-10	1.99-10	5.45-12	5.93-16	1.08-23	1.18-11	5.59-12
1.24-10	6.94-10	3.02-10	1.94-11	2.42-12	5.11-15	4.09-24	3.24-11	1.12-11
1.97-09	4.83-09	3.54-10	7.73-11	2.52-11	2.30-13	1.41-22	1.68-10	8.14-11
9.39-11	4.61-10	1.62-10	2.30-10	1.24-11	3.42-15	2.68-19	2.00-10	1.45-10
4.76-10	1.39-10	3.20-10	8.98-11	1.76-12	3.19-17	2.59-25	8.01-11	2.86-11
4.61-10	4.86-10	2.69-10	2.07-11	9.50-12	4.43-15	2.76-24	5.38-11	1.41-11
2.22-10	1.20-09	7.34-09	8.55-11	5.83-12	2.99-17	1.25-20	9.33-10	6.61-10
5.32-10	5.74-10	8.47-10	2.74-11	4.86-11	3.85-14	7.01-23	1.55-10	4.37-11
2.01-09	4.78-10	1.34-10	9.63-11	1.33-10	1.09-13	1.17-21	4.58-10	1.85-10
6.22-10	1.48-10	3.96-10	1.35-10	8.01-13	4.46-18	7.86-27	3.53-09	1.94-09
1.34-09	1.71-09	2.99-09	1.90-10	5.14-11	3.26-14	9.17-20		
5.06-10	6.17-10	2.07-09	6.67-11	2.47-11	1.69-14	8.75-20	7.78-10	2.54-10

PHI 90 TO 135 DEGREES

2.43-11	1.98-09	9.83-11	3.56-11	2.99-11	1.21-17	2.88-19	5.30-11	4.53-11
4.49-10	2.62-10	3.63-10	5.17-11	1.14-11	2.93-15	3.12-23	3.10-11	1.26-11
1.36-10	1.15-10	1.35-10	4.84-10	4.74-12	1.84-16	1.35-22	1.85-11	5.39-12
2.82-10	1.24-10	3.56-10	9.99-11	2.82-12	1.09-15	2.71-21	3.02-11	6.40-12
4.84-11	3.03-11	1.33-10	7.68-11	2.07-12	2.50-13	4.23-25	6.55-11	4.24-11
3.14-10	8.63-10	2.27-10	4.63-11	8.06-13	2.45-15	1.01-24	4.28-11	1.59-11
1.21-10	5.73-10	4.06-10	1.51-10	1.21-11	3.54-17	2.04-25	6.80-11	1.85-11
3.85-10	5.92-10	1.53-10	7.56-11	8.15-12	7.73-17	8.00-22	7.29-11	1.43-11
6.63-10	2.65-10	5.11-10	1.30-10	8.80-12	2.48-13	2.51-25	1.95-10	6.19-11
2.12-10	2.02-10	1.55-10	1.15-10	6.70-10	2.43-16	1.11-24	1.20-09	6.89-10
5.41-10	7.94-10	5.55-10	2.93-10	5.45-11	4.53-14	1.85-20		
9.19-11	2.10-10	9.81-11	1.18-10	3.97-11	4.30-14	1.74-20	1.90-10	4.46-11

PHI 135 TO 180 DEGREES

2.71-11	3.77-11	6.72-11	6.70-10	5.82-11	3.74-17	6.47-25	1.06-11	4.12-12
3.14-10	8.32-11	1.13-10	1.21-09	4.24-11	8.14-15	5.44-22	3.05-11	1.18-11
1.97-10	1.53-10	3.84-10	2.18-10	7.28-09	8.23-15	3.32-22	1.22-10	7.51-11
3.36-10	1.44-10	3.80-10	4.62-10	1.17-11	1.96-15	3.18-23	6.68-11	2.24-11
3.09-10	3.81-10	9.59-11	2.55-09	4.09-11	1.43-17	2.42-24	6.61-11	2.68-11
2.76-10	4.12-10	4.57-11	1.27-08	1.99-09	6.67-17	2.58-22	1.77-19	1.40-10
1.58-09	7.64-10	3.78-10	7.42-11	3.61-10	5.25-15	4.22-23	1.84-10	6.15-11
6.32-10	5.87-10	7.37-10	2.73-09	6.65-11	8.38-17	7.90-27	1.95-10	7.24-11
8.67-10	5.72-10	6.66-10	2.21-11	7.62-12	1.85-16	2.90-25	2.43-10	1.06-10
9.82-10	4.03-10	6.51-10	7.22-11	2.67-12	8.78-18	1.64-26	1.05-09	5.57-10
1.21-09	7.71-10	7.48-10	3.86-09	2.44-09	6.03-15	2.52-22		
3.00-10	1.74-10	1.81-10	2.71-09	2.11-09	2.96-15	1.35-22	3.20-10	6.18-11
							8.09-06	5.08-06

AIR SCATTERING 6.22 02 ENERGY 2.00 ANGLE 1.50 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	4.77-06	4.25-06	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	6.25-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	2.00-07	3.77-07	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	6.86-07	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	6.49-07	0.	0.
1.20 02	0.	0.	0.	0.	0.	4.62-07	0.	0.
1.40 02	0.	0.	0.	0.	0.	4.31-07	2.45-07	0.
1.60 02	0.	0.	0.	0.	0.	0.	1.15-05	0.
1.80 02	0.	0.	0.	0.	0.	0.	6.51-07	0.
	1.67-07	1.36-07	1.62-07	1.00-07	2.24-07	3.78-07	3.04-07	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	1.76-06	1.44-06	0.	0.	0.	0.	0.	9.44-12
4.00 01	0.	0.	3.98-07	0.	0.	0.	0.	2.63-10
6.00 01	0.	0.	1.27-07	2.40-07	0.	0.	0.	2.21-09
8.00 01	0.	0.	0.	0.	4.37-07	0.	0.	5.00-10
9.00 01	0.	0.	0.	0.	0.	0.	1.76-12	1.05-09
1.00 02	0.	0.	0.	0.	0.	4.13-07	1.45-10	4.06-10
1.20 02	0.	0.	0.	0.	0.	2.94-07	2.54-10	3.53-10
1.40 02	0.	0.	0.	0.	0.	2.75-07	1.58-07	1.83-10
1.60 02	0.	0.	0.	0.	0.	4.30-10	7.80-07	7.20-10
1.80 02	0.	0.	0.	0.	1.57-09	2.05-10	4.31-07	2.06-10
	1.06-07	8.65-08	1.03-07	6.38-08	1.43-07	2.41-07	2.07-07	1.38-09
	7.08-08	5.12-08	5.94-08	6.38-08	1.01-07	1.08-07	4.29-08	4.06-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.51-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.70-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.32-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	5.08-10
9.00 01	0.	0.	0.	0.	0.	0.	5.32-12	5.64-09
1.00 02	0.	0.	0.	0.	0.	0.	1.58-11	6.63-10
1.20 02	0.	0.	0.	0.	0.	0.	5.70-10	2.52-10
1.40 02	0.	0.	0.	0.	0.	7.83-12	7.65-10	1.17-09
1.60 02	0.	0.	0.	0.	3.09-11	1.14-11	1.98-09	2.27-10
1.80 02	0.	0.	0.	0.	0.	3.64-10	4.19-09	3.87-10
	0.	0.	0.	0.	5.36-12	2.60-11	9.25-10	1.84-09
	0.	0.	0.	0.	5.36-12	2.05-11	2.02-10	6.66-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	5.24-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.37-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.40-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	5.57-10
9.00 01	0.	0.	0.	0.	0.	0.	7.84-13	6.61-10
1.00 02	0.	0.	0.	0.	0.	0.	2.12-12	1.18-09
1.20 02	0.	0.	0.	0.	0.	0.	1.30-11	8.82-10
1.40 02	0.	0.	0.	0.	0.	6.71-13	1.27-10	1.05-09
1.60 02	0.	0.	0.	0.	1.76-12	4.15-11	4.43-10	4.01-10
1.80 02	0.	0.	0.	0.	1.27-12	3.40-11	3.93-10	8.28-10
	0.	0.	0.	0.	3.82-13	9.44-12	1.39-10	1.62-09
	0.	0.	0.	0.	3.15-13	5.04-12	3.82-11	4.48-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	4.27-13
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.06-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.37-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	4.18-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.12-10
1.00 02	0.	0.	0.	0.	0.	0.	1.00-11	2.66-09
1.20 02	0.	0.	0.	0.	0.	1.29-11	9.88-12	2.47-10
1.40 02	0.	0.	0.	0.	0.	5.72-11	2.38-10	5.51-10
1.60 02	0.	0.	0.	0.	8.75-13	1.44-11	6.26-10	2.79-09
1.80 02	0.	0.	0.	0.	2.05-11	8.65-12	2.31-10	3.13-10
	0.	0.	0.	0.	1.39-12	2.24-11	1.91-10	1.60-09
	0.	0.	0.	0.	1.25-12	1.14-11	7.16-11	5.43-10

1656656021 45 21664541 1335

AIR SCATTERING 6.22 02 ENERGY 2.00 ANGLE 1.50 01 DIST. 1.52 02
3.90 01 1.75 03 0. 0. 5.38 04 5.00 01 1.80 03

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	2.34-06
0.	0.	0.	0.	0.	0.	0.	2.50-07
0.	0.	0.	0.	0.	0.	0.	1.55-07
0.	0.	0.	0.	0.	0.	0.	1.03-07
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	7.14-08
0.	0.	0.	0.	0.	0.	0.	5.09-08
0.	0.	0.	0.	0.	0.	0.	6.46-08
0.	0.	0.	0.	0.	0.	0.	8.06-08
0.	0.	0.	0.	0.	0.	0.	4.56-08
0.	0.	0.	0.	0.	0.	0.	3.22-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
6.09-10	6.51-11	1.47-09	6.35-12	8.90-15	1.13-18	1.38-28	1.49-06	5.07-07
1.08-10	1.68-10	1.61-10	4.77-09	6.59-10	2.66-17	5.34-24	1.59-07	1.12-07
6.61-10	5.84-10	2.42-10	6.67-11	1.56-12	1.22-15	3.93-23	9.89-08	6.98-08
3.55-09	2.91-10	2.89-10	7.31-10	1.01-10	2.61-14	2.10-24	6.57-08	4.65-08
9.98-10	2.47-09	1.22-10	5.73-10	2.71-12	1.92-15	3.59-19	1.57-10	6.76-11
9.02-10	1.82-10	3.12-10	1.43-10	8.99-13	2.87-15	3.87-18	4.55-08	4.54-08
2.46-10	2.24-10	6.61-10	1.52-10	8.45-12	1.12-15	6.07-23	3.25-08	2.31-08
4.99-10	1.42-09	5.81-10	1.09-09	5.87-12	1.82-16	1.84-23	4.14-08	1.94-08
1.02-09	6.05-10	1.37-09	5.35-11	3.88-12	3.06-17	4.67-25	5.48-08	1.25-08
1.10-09	6.24-10	7.40-10	1.63-11	4.62-12	1.30-15	7.99-24	3.05-08	2.96-09
2.18-09	1.34-09	1.00-09	1.56-09	1.54-10	1.02-14	7.33-19		
1.11-09	4.88-10	3.31-10	1.15-09	1.17-10	9.00-15	7.33-19	2.06-07	4.50-08

PHI 45 TO 90 DEGREES

5.42-11	1.50-11	1.27-10	7.83-11	7.14-15	3.66-19	1.14-22	1.32-11	5.82-12
4.45-10	4.98-10	1.56-10	1.37-10	1.73-10	1.02-18	3.43-22	4.77-11	1.27-11
1.83-10	4.15-10	5.94-11	3.13-11	1.24-11	2.07-15	1.09-22	2.58-11	8.88-12
4.24-10	2.58-10	3.13-10	1.16-10	2.92-12	1.81-13	1.72-23	5.83-11	2.23-11
3.47-10	5.85-10	5.82-10	2.92-11	3.64-10	8.39-16	6.41-22	3.25-10	1.84-10
5.95-10	4.71-10	1.95-10	1.03-10	2.90-11	4.94-17	1.84-22	7.22-11	1.92-11
2.60-10	5.50-10	1.13-09	3.83-10	2.41-11	5.81-15	9.42-24	8.78-11	2.91-11
2.54-10	5.31-10	2.67-10	1.43-10	1.22-11	1.63-16	5.91-23	1.42-10	3.12-11
6.58-10	5.28-10	7.70-10	8.86-11	1.20-11	2.29-16	2.66-24	2.09-10	5.65-11
2.44-09	6.87-11	7.07-10	5.27-11	1.20-12	7.58-16	1.07-28	4.57-10	1.17-10
8.45-10	8.82-10	9.05-10	2.79-10	1.16-10	6.19-14	2.64-22		
1.48-10	1.67-10	3.09-10	6.57-11	6.86-11	5.83-14	1.32-22	2.34-10	3.91-11

PHI 90 TO 135 DEGREES

3.06-14	1.24-11	3.57-10	1.31-11	3.91-12	4.26-20	4.48-24	3.38-11	2.67-11
1.36-10	6.02-10	1.17-10	3.35-11	1.92-10	7.97-15	1.34-24	3.08-11	8.95-12
2.16-10	1.15-10	8.94-11	8.66-11	1.37-11	1.75-16	1.54-23	8.32-11	5.94-11
9.34-11	2.92-10	1.27-10	4.51-10	1.43-11	3.48-16	5.61-23	4.54-11	1.22-11
1.73-10	1.99-11	7.73-11	4.42-11	2.37-11	1.47-17	4.43-25	4.21-11	1.72-11
7.18-10	1.37-10	9.02-11	3.40-11	2.00-11	3.45-16	4.87-25	9.10-11	4.30-11
1.95-10	2.64-10	2.84-10	2.39-10	3.23-11	4.44-14	7.69-26	6.72-11	2.33-11
1.69-09	3.81-10	1.52-10	1.29-10	1.68-11	3.89-15	5.85-22	1.36-10	6.92-11
8.95-10	2.09-09	6.20-10	6.05-11	2.25-12	5.45-17	3.69-23	1.51-10	5.75-11
1.83-09	3.61-10	1.47-09	1.34-11	3.83-13	2.90-15	6.54-24	1.77-10	5.65-11
1.05-09	8.31-10	4.66-10	3.14-10	6.49-11	1.73-14	1.86-22		
4.32-10	3.42-10	1.05-10	9.05-11	3.35-11	1.39-14	1.57-22	1.03-10	3.14-11

PHI 135 TO 180 DEGREES

1.55-10	4.04-12	7.50-11	1.57-10	5.88-12	9.17-16	1.53-24	8.84-12	5.32-12
2.59-09	2.44-10	4.84-11	1.49-10	3.29-11	1.19-14	1.27-22	1.55-10	9.19-11
5.06-10	1.12-10	1.15-10	5.43-10	3.88-12	1.43-14	9.05-26	3.55-11	1.30-11
3.71-11	8.78-11	9.82-11	2.46-10	2.63-11	1.08-15	2.32-26	2.90-11	1.74-11
2.07-10	1.18-08	3.94-11	9.80-11	2.76-12	8.35-15	2.17-23	3.08-10	2.80-10
2.74-10	1.76-10	2.19-10	3.14-10	2.14-12	9.51-16	5.09-27	1.55-10	8.37-11
2.06-10	4.85-10	5.68-10	3.07-10	2.54-11	2.79-16	6.75-21	4.82-11	1.06-11
1.90-09	1.90-10	1.45-10	1.16-10	1.02-11	6.80-15	4.63-22	1.27-10	6.83-11
1.48-09	2.89-10	1.54-10	8.21-11	9.56-12	8.56-16	2.30-24	2.49-10	1.25-10
2.30-09	2.18-10	2.82-10	8.94-11	2.03-12	2.70-16	5.85-21	1.30-10	6.08-11
1.66-09	2.45-09	3.88-10	4.82-10	2.93-11	9.96-15	2.71-21		
6.84-10	2.03-09	1.20-10	2.02-10	9.41-12	5.14-15	2.23-21	2.28-10	6.10-11
							3.25-07	7.07-08

AIR SCATTERING 6.23 02 ENERGY 2.00 ANGLE 3.00 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50 01	2.40-01	1.70-01
2.00 01	0.	9.23-07	7.21-07	0.	0.	0.	0.	0.
4.00 01	0.	0.	1.64-07	3.12-07	0.	0.	0.	0.
6.00 01	0.	0.	0.	9.53-08	2.30-07	0.	0.	0.
8.00 01	0.	0.	0.	0.	8.19-08	9.99-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	3.09-07	0.	0.
1.00 02	0.	0.	0.	0.	0.	2.32-07	0.	0.
1.20 02	0.	0.	0.	0.	0.	2.34-07	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	3.97-07	0.
1.60 02	0.	0.	0.	0.	0.	0.	2.41-07	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	5.56-08	7.20-08	7.95-08	8.79-08	2.03-07	1.48-07	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	5.87-07	4.59-07	0.	0.	0.	0.	2.25-10
4.00 01	0.	0.	1.05-07	1.98-07	0.	0.	0.	9.00-10
6.00 01	0.	0.	0.	6.06-08	1.46-07	0.	0.	1.18-09
8.00 01	0.	0.	0.	0.	5.22-08	6.36-08	2.46-12	2.09-10
9.00 01	0.	0.	0.	0.	0.	1.97-07	1.95-11	8.40-10
1.00 02	0.	0.	0.	0.	0.	1.47-07	1.64-10	3.19-10
1.20 02	0.	0.	0.	0.	0.	1.49-07	3.03-09	8.70-10
1.40 02	0.	0.	0.	0.	0.	1.96-13	2.59-07	2.04-10
1.60 02	0.	0.	0.	0.	1.32-14	4.13-11	1.83-07	9.69-10
1.80 02	0.	0.	0.	0.	0.	5.42-11	2.40-09	7.55-10
	0.	3.54-08	4.58-08	5.06-08	5.60-08	1.29-07	1.02-07	1.30-09
	0.	2.04-08	2.05-08	2.92-08	3.24-08	4.12-08	1.56-08	3.42-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	5.06-12
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.01-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.60-10
8.00 01	0.	0.	0.	0.	0.	0.	4.16-12	8.35-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.73-09
1.00 02	0.	0.	0.	0.	0.	0.	1.47-11	3.22-10
1.20 02	0.	0.	0.	0.	0.	0.	5.70-10	1.49-09
1.40 02	0.	0.	0.	0.	0.	1.13-12	5.67-10	3.64-10
1.60 02	0.	0.	0.	0.	1.76-14	2.02-11	3.46-09	4.82-10
1.80 02	0.	0.	0.	0.	0.	3.69-10	1.99-09	2.19-10
	0.	0.	0.	0.	3.05-15	2.60-11	1.06-09	5.32-09
	0.	0.	0.	0.	3.05-15	1.35-11	4.69-10	3.51-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	7.86-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	8.43-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.18-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.71-10
9.00 01	0.	0.	0.	0.	0.	0.	6.55-12	1.83-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.47-10
1.20 02	0.	0.	0.	0.	0.	0.	6.35-11	1.43-09
1.40 02	0.	0.	0.	0.	0.	3.98-11	9.96-11	9.87-10
1.60 02	0.	0.	0.	0.	5.38-11	3.45-13	7.73-10	4.66-10
1.80 02	0.	0.	0.	0.	0.	6.34-12	1.21-10	1.06-10
	0.	0.	0.	0.	9.35-12	1.10-11	1.90-10	1.62-09
	0.	0.	0.	0.	9.32-12	1.03-11	1.05-10	4.85-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	6.82-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.00-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.54-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	5.93-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.66-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	5.06-11
1.20 02	0.	0.	0.	0.	0.	6.32-16	5.09-13	4.62-10
1.40 02	0.	0.	0.	0.	0.	1.03-12	2.03-11	2.41-10
1.60 02	0.	0.	0.	0.	0.	4.01-11	5.03-11	3.09-09
1.80 02	0.	0.	0.	0.	0.	9.67-14	2.81-09	1.84-10
	0.	0.	0.	0.	0.	7.24-12	1.84-10	1.17-09
	0.	0.	0.	0.	0.	6.96-12	1.48-10	4.04-10

2410144005001 1537155012254

AIR SCATTERING 6.23 02 ENERGY 2.00 ANGLE 3.00 01 DIST. 1.52 02
3.50 01 1.76 03 0. 0. 5.31 04 5.00 01 1.80 03

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	5.65-07
0.	0.	0.	0.	0.	0.	0.	1.28-07
0.	0.	0.	0.	0.	0.	0.	5.35-08
0.	0.	0.	0.	0.	0.	0.	2.33-08
0.	0.	0.	0.	0.	0.	0.	3.40-08
0.	0.	0.	0.	0.	0.	0.	2.55-08
0.	0.	0.	0.	0.	0.	0.	2.57-08
0.	0.	0.	0.	0.	0.	0.	2.78-08
0.	0.	0.	0.	0.	0.	0.	1.69-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							1.07-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
7.57-10	1.65-09	1.09-09	3.81-11	3.55-12	9.97-15	2.50-27	3.60-07	1.47-07
2.42-10	2.19-10	5.77-09	1.64-10	9.74-12	4.85-17	2.38-24	8.17-08	4.07-08
7.06-10	2.11-10	6.65-10	7.01-11	1.27-12	1.36-17	5.72-23	3.42-08	1.97-08
1.87-09	6.24-10	2.57-10	1.13-11	5.53-12	3.13-16	1.96-24	1.49-08	1.05-08
1.98-10	6.36-10	6.13-10	6.18-10	5.40-12	7.05-15	1.39-22	2.17-08	1.53-08
2.79-10	1.59-10	2.74-10	8.47-11	3.27-11	4.46-16	9.55-23	1.63-08	1.15-08
2.46-10	2.40-10	1.86-10	1.31-10	9.66-12	2.16-15	1.79-23	1.66-08	6.41-09
8.67-10	2.52-10	3.50-10	2.28-11	4.30-12	1.89-16	4.39-25	1.82-08	3.96-09
4.49-10	2.55-10	1.61-10	1.47-10	3.46-12	2.57-14	5.80-22	1.29-08	1.64-09
1.16-09	3.95-10	2.70-10	7.70-11	9.84-12	6.05-18	5.30-29	2.69-10	8.00-11
1.43-09	7.49-10	1.68-09	2.54-10	1.62-11	7.24-15	1.64-22		
5.55-10	1.68-10	9.99-10	8.75-11	5.31-12	4.67-15	1.01-22	6.90 08	1.35-08

PHI 45 TO 90 DEGREES

5.44-11	6.45-10	1.72-10	1.31-13	9.69-16	1.10-13	8.66-25	2.11-11	9.45-12
2.09-10	2.26-10	8.89-11	1.11-10	4.49-11	7.62-15	2.43-23	1.02-09	9.91-10
3.90-10	1.52-10	2.09-10	1.48-10	1.85-11	7.04-17	7.24-22	5.65-11	1.50-11
5.69-10	1.74-10	1.10-10	6.59-11	5.27-12	7.63-16	1.23-21	6.24-11	2.34-11
7.76-10	8.30-11	5.12-11	1.54-10	1.73-12	2.38-17	6.71-28	2.19-10	1.69-10
2.21-10	2.55-10	1.07-10	4.68-11	2.12-12	3.88-18	5.67-27	3.38-11	1.78-11
6.99-10	2.53-09	1.08-09	9.27-11	2.07-11	8.29-17	3.25-23	2.23-10	7.84-11
2.95-10	3.07-10	1.82-10	4.92-11	2.00-11	4.38-15	1.86-22	8.03-11	1.65-11
2.95-10	1.71-08	4.91-10	2.17-10	3.69-11	1.32-14	2.15-22	7.03-10	4.34-10
6.20-10	5.03-10	1.55-10	3.06-10	2.20-11	5.85-14	1.38-23	2.31-10	7.82-11
8.32-10	4.15-09	6.40-10	2.14-10	3.49-11	1.52-14	6.97-22		
2.38-10	2.96-09	2.55-10	4.65-11	1.18-11	8.53-15	4.33-22	4.88-10	1.95-10

PHI 90 TO 135 DEGREES

2.50-10	1.78-11	3.04-11	5.12-11	1.77-11	3.49-15	2.93-29	5.00-11	3.34-11
1.36-09	1.23-10	1.25-10	9.70-11	2.46-12	1.47-14	8.16-26	5.97-11	4.48-11
1.81-10	1.47-09	2.59-10	6.75-11	7.50-12	5.82-15	2.67-23	1.57-10	6.89-11
7.85-10	3.01-10	3.05-10	1.83-10	7.95-12	1.93-16	6.44-23	5.71-11	2.28-11
2.93-10	1.42-10	6.53-11	3.92-11	5.68-11	6.24-17	1.11-28	2.58-11	8.39-12
1.47-10	1.43-10	1.05-10	1.42-09	2.46-11	5.62-14	4.20-25	3.76-11	1.33-11
1.72-10	2.93-10	1.72-10	5.54-11	6.81-12	3.62-15	1.56-19	9.31-11	4.64-11
4.66-10	5.42-10	6.92-11	1.22-10	1.28-11	3.32-16	4.70-25	9.32-11	3.82-11
4.02-09	5.23-10	6.35-11	7.90-11	1.10-12	1.31-13	1.12-25	2.45-10	1.28-10
2.93-09	1.71-09	8.93-10	4.92-11	4.67-12	1.43-18	9.09-24	1.79-10	8.63-11
1.69-09	9.96-10	3.61-10	4.18-10	2.63-11	3.81-14	5.08-20		
6.57-10	3.94-10	8.33-11	2.25-10	1.02-11	2.51-14	5.08-20	1.93-10	3.67-11

PHI 135 TO 180 DEGREES

2.23-10	1.75-09	1.58-09	2.24-10	9.05-12	4.61-20	1.33-26	1.18-10	5.49-11
1.19-10	8.00-10	2.38-10	2.80-11	7.14-13	3.20-16	3.70-21	2.09-11	6.31-12
6.56-11	2.28-10	1.93-10	1.49-10	1.30-10	1.83-16	3.98-19	3.22-11	1.12-11
3.19-10	5.22-10	3.30-10	7.67-11	5.36-11	3.63-15	3.63-20	6.15-11	1.80-11
2.67-10	7.60-11	7.45-11	4.54-11	4.59-12	8.98-17	1.45-23	3.18-11	1.35-11
5.40-10	2.81-10	1.30-10	6.92-11	2.54-11	2.30-13	2.05-22	3.23-11	1.58-11
1.31-10	8.44-10	1.07-10	2.22-11	5.30-11	3.19-14	7.12-23	4.14-11	1.61-11
5.89-10	1.12-10	6.76-11	5.43-11	3.45-12	7.92-18	1.76-21	3.85-11	1.80-11
2.82-10	1.06-10	1.72-10	2.32-11	1.64-12	9.76-18	1.61-20	1.78-10	1.04-10
8.73-11	1.35-09	3.15-10	4.71-11	1.35-13	1.62-17	1.95-24	2.48-10	1.74-10
5.41-10	7.42-10	4.33-10	1.26-10	7.66-11	5.19-14	1.21-19		
1.53-10	1.97-10	1.14-10	4.25-11	3.75-11	4.13-14	1.17-19	1.20-10	2.56-11
							1.10-07	2.12-08

AIR SCATTERING 6.24 02 ENERGY 2.00 ANGLE 6.00 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	5.76-07	1.78-07	0.	0.	0.
4.00 01	0.	0.	0.	0.	2.21-07	0.	0.	0.
6.00 01	0.	0.	0.	0.	3.12-08	1.72-07	0.	0.
8.00 01	0.	0.	0.	0.	0.	1.31-07	0.	0.
9.00 01	0.	0.	0.	0.	0.	1.16-07	0.	0.
1.00 02	0.	0.	0.	0.	0.	1.22-08	1.56-07	0.
1.20 02	0.	0.	0.	0.	0.	0.	1.53-07	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	3.47-08	5.75-0	1.11-07	7.71-08	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70
2.00 01	0.	0.	0.	3.67-07	1.13-07	0.	0.	2.84-10
4.00 01	0.	0.	0.	0.	1.41-07	0.	0.	1.54-09
6.00 01	0.	0.	0.	0.	1.99-08	1.09-07	7.23-12	2.86-09
8.00 01	0.	0.	0.	0.	0.	8.35-08	3.45-09	9.98-10
9.00 01	0.	0.	0.	0.	0.	7.39-08	2.04-10	1.13-09
1.00 02	0.	0.	0.	0.	0.	7.78-09	1.02-07	3.47-10
1.20 02	0.	0.	0.	0.	0.	2.05-11	1.03-07	3.18-10
1.40 02	0.	0.	0.	0.	0.	3.74-12	4.29-09	4.14-10
1.60 02	0.	0.	0.	0.	0.	1.76-12	1.56-09	1.27-09
1.80 02	0.	0.	0.	0.	0.	3.88-15	2.68-09	6.70-10
	0.	0.	0.	2.21-08	3.66-08	7.05-08	5.41-08	2.10-09
	0.	0.	0.	1.11-08	1.50-08	1.71-08	6.33-09	6.02-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	4.70-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	9.63-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.13-10
8.00 01	0.	0.	0.	0.	0.	0.	1.02-10	2.20-10
9.00 01	0.	0.	0.	0.	0.	0.	5.40-11	3.43-10
1.00 02	0.	0.	0.	0.	0.	1.07-13	2.02-10	9.46-10
1.20 02	0.	0.	0.	0.	0.	9.67-14	3.35-09	8.43-10
1.40 02	0.	0.	0.	0.	0.	7.76-12	4.79-10	1.27-09
1.60 02	0.	0.	0.	0.	0.	4.26-12	6.75-10	1.54-09
1.80 02	0.	0.	0.	0.	0.	2.73-12	3.48-09	3.55-10
	0.	0.	0.	0.	0.	3.02-12	1.63-09	1.53-09
	0.	0.	0.	0.	0.	2.10-12	1.06-09	3.24-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	8.56-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.03-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.37-10
8.00 01	0.	0.	0.	0.	0.	0.	3.49-12	2.58-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.53-10
1.00 02	0.	0.	0.	0.	0.	0.	6.29-14	2.14-10
1.20 02	0.	0.	0.	0.	0.	0.	4.62-12	1.76-09
1.40 02	0.	0.	0.	0.	0.	0.	9.52-12	3.16-10
1.60 02	0.	0.	0.	0.	0.	0.	2.18-11	6.09-10
1.80 02	0.	0.	0.	0.	0.	0.	3.60-10	4.10-11
	0.	0.	0.	0.	0.	0.	3.07-11	1.85-09
	0.	0.	0.	0.	0.	0.	1.87-11	7.12-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	6.33-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	7.98-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.31-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.60-10
9.00 01	0.	0.	0.	0.	0.	0.	5.09-11	7.72-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	4.33-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	7.23-10
1.40 02	0.	0.	0.	0.	0.	0.	1.24-12	1.52-09
1.60 02	0.	0.	0.	0.	0.	1.48-12	0.	1.03-09
1.80 02	0.	0.	0.	0.	0.	1.46-12	1.99-13	1.82-09
	0.	0.	0.	0.	0.	3.44-13	9.19-12	1.40-09
	0.	0.	0.	0.	0.	2.71-13	8.85-12	3.87-10

1537155 01225 14303326456 1

AIR SCATTERING 6.24 02 ENERGY 2.00 ANGLE 6.00 01 DIST. 1.52 02
4.00 01 1.25 03 0. 0. 5.34 04 5.00 01 1.80 03

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	1.42-07
0.	0.	0.	0.	0.	0.	0.	3.32-08
0.	0.	0.	0.	0.	0.	0.	2.36-08
0.	0.	0.	0.	0.	0.	0.	1.44-08
0.	0.	0.	0.	0.	0.	0.	1.28-08
0.	0.	0.	0.	0.	0.	0.	1.23-08
0.	0.	0.	0.	0.	0.	0.	1.07-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	3.31-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
6.48-10	1.69-10	1.49-10	4.00-11	5.70-13	1.30-17	1.03-27	9.04-08	4.04-08
7.00-10	5.92-10	8.96-11	1.19-11	2.64-12	8.82-16	4.89-22	2.12-08	1.06-08
1.70-09	6.45-10	2.80-10	3.06-10	1.59-11	3.50-17	3.41-27	1.52-08	6.17-09
4.07-10	5.20-10	2.49-10	1.83-10	2.24-11	5.36-17	3.12-20	9.51-09	3.31-09
8.72-10	7.63-10	3.17-09	6.04-11	4.80-12	5.34-15	4.04-21	8.31-09	3.10-09
8.63-10	3.38-10	1.91-10	2.11-10	7.35-12	1.61-14	1.09-20	8.02-09	2.22-09
8.57-10	2.33-10	2.80-10	1.71-10	2.86-12	4.75-14	1.36-18	7.29-09	7.73-10
7.98-10	3.56-10	3.57-10	2.96-10	3.40-11	2.28-13	3.02-22	3.69-10	9.84-11
4.43-10	6.79-10	7.89-10	1.45-10	3.62-11	5.09-13	6.83-25	2.23-10	1.04-10
4.05-10	4.00-10	1.27-11	4.64-12	8.91-12	1.33-17	1.04-22	2.46-10	1.11-10
1.62-09	9.58-10	1.09-09	3.53-10	3.09-11	1.68-13	4.58-19		
4.71-10	1.81-10	5.34-10	9.18-11	1.30-11	1.66-13	4.45-19	2.17-08	3.67-09

PHI 45 TO 90 DEGREES

4.93-11	1.09-09	3.25-10	1.43-11	1.83-11	6.93-18	1.02-27	3.71-11	1.96-11
1.73-10	1.31-10	1.51-10	1.27-10	3.96-11	1.75-16	1.99-19	6.22-11	1.95-11
4.61-10	3.64-10	7.42-10	9.83-11	3.68-12	7.22-16	5.67-24	7.18-11	2.66-11
9.59-10	1.33-10	9.36-10	3.31-10	6.19-13	1.14-14	1.82-27	7.79-11	3.14-11
5.07-10	1.18-10	1.36-10	9.04-11	1.32-12	6.31-16	2.65-24	4.56-11	1.64-11
2.42-10	2.64-10	4.88-10	4.96-11	2.03-12	2.08-16	3.65-22	8.68-11	3.49-11
9.23-10	4.70-10	2.29-10	2.15-10	1.99-11	9.97-15	4.79-25	3.28-10	2.22-10
1.17-08	4.35-10	7.52-10	1.87-10	1.37-12	7.02-14	2.15-23	5.47-10	4.05-10
1.80-10	1.21-09	2.82-10	2.59-11	2.51-12	5.91-17	7.94-23	1.66-10	5.72-11
3.18-11	9.43-10	1.99-09	3.20-11	1.59-12	1.66-16	5.26-24	3.26-10	2.46-10
4.05-09	8.31-10	1.10-09	3.08-10	1.90-11	2.60-14	3.47-20		
2.97-09	1.88-10	4.74-10	1.21-10	9.16-12	2.08-14	3.46-20	3.82-10	1.32-10

PHI 90 TO 135 DEGREES

1.59-12	7.79-11	1.07-10	5.61-12	6.51-12	7.43-16	6.58-28	4.70-11	3.86-11
1.27-10	3.19-10	4.40-10	1.05-11	1.58-11	3.20-16	3.54-23	3.14-11	1.02-11
2.97-10	3.71-10	1.47-10	1.02-10	4.88-11	3.48-16	4.85-24	3.09-11	8.61-12
2.54-10	4.06-10	3.70-10	2.60-10	2.03-11	2.87-16	7.37-23	1.58-10	1.02-10
4.02-10	3.04-10	8.97-10	2.95-10	9.16-12	7.22-17	8.11-21	6.54-11	1.83-11
1.12-10	6.14-10	2.39-10	3.77-11	1.55-12	5.35-13	6.44-26	3.47-11	1.67-11
2.64-10	2.14-10	1.87-10	1.74-11	6.81-13	3.30-16	1.43-25	1.07-10	3.86-11
2.05-10	4.26-10	5.50-10	1.32-09	2.94-11	3.12-16	5.93-21	5.86-11	1.85-11
9.96-11	1.10-10	5.89-10	4.86-11	2.16-12	8.45-17	6.03-24	5.05-11	1.46-11
1.91-11	2.74-10	4.73-10	1.03-10	1.36-12	2.99-17	5.93-25	4.50-11	2.30-11
4.33-10	6.69-10	7.78-10	5.44-10	3.31-11	9.34-14	3.02-21		
8.12-11	1.67-10	2.44-10	3.32-10	1.44-11	9.29-14	2.11-21	1.47-10	3.70-11

PHI 135 TO 180 DEGREES

3.65-10	1.01-10	8.36-12	7.34-12	3.93-12	1.47-18	2.28-29	1.90-11	9.12-12
3.15-10	3.23-10	1.03-09	3.99-11	3.04-10	8.53-15	1.35-20	8.55-11	2.96-11
1.70-09	1.34-10	6.34-11	1.18-10	5.31-12	5.99-17	2.70-23	7.36-11	4.02-11
1.67-10	1.13-10	1.58-10	4.37-10	4.81-11	4.40-16	2.58-24	2.99-11	9.80-12
4.61-11	1.63-10	1.87-10	4.03-10	5.43-10	1.53-16	2.33-26	6.09-11	2.30-11
2.89-10	3.62-10	2.78-10	1.23-10	1.97-12	1.48-15	1.90-25	4.76-11	1.30-11
2.13-10	2.02-10	7.25-10	1.39-10	4.21-10	8.79-16	3.35-27	6.88-11	2.84-11
1.14-09	3.74-10	6.02-10	9.17-11	9.09-11	2.61-14	1.05-27	1.40-10	5.97-11
1.00-09	3.87-10	2.92-10	8.81-11	2.38-11	3.11-16	1.01-26	1.04-10	5.48-11
9.30-09	1.98-12	1.34-09	4.13-11	8.94-11	1.51-16	1.33-19	4.54-10	3.43-10
1.75-09	4.76-10	8.61-10	3.60-10	3.36-10	9.22-15	1.04-20		
6.99-10	1.08-10	2.25-10	1.43-10	2.99-10	5.49-15	8.35-21	1.69-10	3.48-11
							3.51-08	5.80-09

AIR SCATTERING 6.25 02 ENERGY 2.00 ANGLE 9.00 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	0.	3.22-07	2.53-07	0.	0.
4.00 01	0.	0.	0.	0.	0.	2.27-07	0.	0.
6.00 01	0.	0.	0.	0.	0.	1.42-07	0.	0.
8.00 01	0.	0.	0.	0.	0.	4.86-09	1.49-07	0.
9.00 01	0.	0.	0.	0.	0.	0.	9.81-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	1.94-08	9.41-08	6.58-08	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	0.	2.05-07	1.61-07	8.75-13	2.14-10
4.00 01	0.	0.	0.	0.	0.	1.44-07	7.07-12	1.55-09
6.00 01	0.	0.	0.	0.	0.	9.07-08	5.52-09	1.02-09
8.00 01	0.	0.	0.	0.	0.	3.10-09	9.80-08	3.46-10
9.00 01	0.	0.	0.	0.	0.	3.00-12	7.00-08	3.32-10
1.00 02	0.	0.	0.	0.	0.	8.20-13	5.44-09	2.79-10
1.20 02	0.	0.	0.	0.	0.	1.11-12	1.98-09	3.22-10
1.40 02	0.	0.	0.	0.	0.	2.33-14	8.22-10	6.03-10
1.60 02	0.	0.	0.	0.	0.	0.	5.98-11	1.23-09
1.80 02	0.	0.	0.	0.	0.	0.	3.14-12	6.95-10
	0.	0.	0.	0.	1.24-08	5.99-08	4.74-08	1.29-09
	0.	0.	0.	0.	7.14-09	1.35-08	5.18-09	2.98-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	7.49-11
4.00 01	0.	0.	0.	0.	0.	0.	9.96-14	8.87-10
6.00 01	0.	0.	0.	0.	0.	0.	9.82-12	1.03-09
8.00 01	0.	0.	0.	0.	0.	0.	1.40-11	2.27-09
9.00 01	0.	0.	0.	0.	0.	0.	9.03-11	2.22-09
1.00 02	0.	0.	0.	0.	0.	2.82-12	5.51-11	4.84-10
1.20 02	0.	0.	0.	0.	0.	0.	3.00-10	5.34-10
1.40 02	0.	0.	0.	0.	0.	0.	8.94-12	6.18-10
1.60 02	0.	0.	0.	0.	0.	0.	8.65-13	2.90-10
1.80 02	0.	0.	0.	0.	0.	0.	2.14-12	1.79-10
	0.	0.	0.	0.	0.	4.90-13	1.33-10	2.04-09
	0.	0.	0.	0.	0.	4.90-13	8.31-11	5.86-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	5.46-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.26-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.81-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.91-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.96-10
1.00 02	0.	0.	0.	0.	0.	0.	6.84-13	1.16-10
1.20 02	0.	0.	0.	0.	0.	0.	1.07-11	9.23-10
1.40 02	0.	0.	0.	0.	0.	1.03-13	0.	2.02-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.82-10
1.80 02	0.	0.	0.	0.	0.	0.	3.96-12	9.44-11
	0.	0.	0.	0.	0.	2.75-14	3.85-12	6.32-10
	0.	0.	0.	0.	0.	2.75-14	3.50-12	2.12-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.08-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.50-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.37-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	6.18-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.38-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	5.63-10
1.20 02	0.	0.	0.	0.	0.	0.	2.43-14	1.16-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.41-09
1.60 02	0.	0.	0.	0.	0.	0.	1.14-10	4.56-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	5.63-09
	0.	0.	0.	0.	0.	0.	1.98-11	1.20-09
	0.	0.	0.	0.	0.	0.	1.83-11	4.50-10

14303326456 1 10163403437 1

AIR SCATTERING 6.25 02 ENERGY 2.00 ANGLE 9.00 01 DIST. 1.52 02
3.50 01 1.76 03 0. 0. 5.32 04 5.00 01 1.80 03

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02	
0.	0.	0.	0.	0.	0.	0.	7.61-08
0.	0.	0.	0.	0.	0.	0.	2.50-08
0.	0.	0.	0.	0.	0.	0.	1.57-08
0.	0.	0.	0.	0.	0.	0.	1.10-08
0.	0.	0.	0.	0.	0.	0.	6.87-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							1.79-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
5.20-11	1.15-10	2.26-10	1.65-10	2.18-11	1.42-14	1.32-20	4.85-08	2.17-08
2.58-10	2.94-10	1.77-10	5.83-11	2.19-11	8.72-15	2.75-19	1.60-08	6.06-09
3.33-10	5.29-10	2.11-10	1.52-10	2.12-11	2.11-16	2.30-23	1.04-08	2.89-09
1.47-09	7.30-10	2.64-10	1.46-10	3.72-11	3.74-15	4.99-23	7.29-09	1.10-09
4.53-10	6.99-10	5.67-10	2.44-10	1.17-11	8.91-16	1.51-21	4.96-09	4.24-10
6.05-10	1.12-09	3.90-10	1.34-10	1.52-11	3.33-15	2.71-19	4.52-10	2.16-10
1.51-09	2.47-10	4.14-10	1.07-09	1.75-11	1.23-15	8.96-22	2.34-10	5.03-11
3.89-10	2.39-10	6.95-10	1.87-10	2.93-10	4.64-15	4.13-22	1.26-10	2.73-11
3.32-09	4.20-10	4.79-10	9.83-11	1.26-09	3.53-16	6.81-27	2.18-10	1.20-10
2.17-10	2.86-10	2.57-11	1.04-11	1.19-13	1.36-17	5.14-25	5.02-11	3.27-11
1.98-09	9.86-10	7.58-10	5.90-10	3.30-10	6.08-15	9.63-20		
6.44-10	1.68-10	1.34-10	2.87-10	2.89-10	2.32-15	6.72-20	1.19-08	1.87-09

PHI 45 TO 90 DEGREES

1.99-10	5.84-10	5.73-12	1.63-10	9.08-13	5.65-17	3.85-23	2.67-11	1.46-11
5.23-10	2.23-10	1.14-09	1.40-10	5.55-11	3.48-16	7.85-24	9.32-11	4.43-11
9.17-10	2.23-10	5.34-10	3.59-10	1.32-11	1.75-15	1.94-23	1.05-10	3.19-11
5.08-10	1.59-10	6.49-10	1.82-10	3.02-11	1.91-16	2.14-23	1.51-10	6.31-11
5.52-10	3.48-10	1.59-10	9.04-11	3.74-12	5.42-14	4.66-24	1.50-10	7.92-11
2.15-10	3.80-10	5.73-10	8.27-10	6.66-12	2.34-17	3.38-22	6.50-11	2.16-11
3.15-10	2.09-09	5.71-10	1.14-10	4.96-12	1.07-14	2.27-18	1.22-10	4.74-11
2.23-10	2.74-10	1.78-10	4.72-11	3.46-11	1.02-14	5.13-19	5.05-11	2.17-11
1.50-10	1.49-10	1.07-10	3.22-10	1.52-11	1.41-18	3.12-28	2.91-11	9.97-12
6.38-11	3.42-10	1.06-10	4.24-12	1.14-12	1.24-19	7.61-29	2.17-11	9.85-12
8.38-10	1.11-09	9.37-10	4.28-10	3.84-11	1.62-14	8.77-19		
1.82-10	5.77-10	2.46-10	1.47-10	1.39-11	1.00-14	7.51-19	1.92-10	3.53-11

PHI 90 TO 135 DEGREES

6.68-10	6.75-12	6.83-11	1.85-11	4.67-12	2.31-16	2.16-28	2.85-11	1.88-11
2.84-10	9.49-10	1.34-10	4.38-11	8.76-13	8.57-15	1.17-26	4.75-11	1.44-11
3.06-10	1.58-10	2.94-10	9.68-11	7.28-11	8.58-17	2.67-19	3.14-11	7.38-12
1.23-10	2.59-09	2.31-10	8.51-11	1.91-11	3.95-16	5.75-23	8.67-11	6.07-11
4.98-10	2.71-10	1.77-10	8.64-11	3.84-11	1.20-16	4.81-25	3.90-11	1.39-11
3.28-11	2.09-10	8.69-11	3.98-11	7.63-10	2.61-19	1.75-24	2.18-11	8.61-12
1.46-10	8.78-11	7.62-11	1.09-10	3.24-12	8.18-13	1.54-18	5.69-11	2.99-11
6.49-11	1.46-10	7.50-11	2.76-10	8.86-12	1.67-16	5.94-26	2.03-11	6.14-12
4.92-10	6.81-11	1.56-10	4.27-10	2.72-12	3.17-15	3.66-26	3.59-11	1.52-11
4.40-11	2.99-10	4.75-11	1.02-11	1.85-11	2.99-14	2.54-29	1.50-11	6.46-12
4.56-10	1.23-09	3.02-10	2.68-10	1.70-10	2.71-13	5.75-19		
1.14-10	8.24-10	6.23-11	9.56-11	1.27-10	2.66-13	5.44-19	8.83-11	2.31-11

PHI 135 TO 180 DEGREES

9.72-11	1.78-10	3.91-11	6.23-11	7.63-11	1.48-14	1.48-30	1.53-11	6.88-12
9.89-10	3.99-11	1.44-10	3.06-11	8.64-12	3.36-17	3.12-24	5.16-11	3.25-11
4.36-10	8.06-11	3.84-11	7.16-11	3.23-12	4.21-16	1.40-22	3.10-11	1.06-11
4.66-10	3.15-10	1.98-10	2.73-11	6.33-13	5.51-13	8.08-20	5.95-11	2.60-11
4.20-10	3.38-10	1.04-09	1.95-11	1.02-11	5.69-16	4.49-25	5.12-11	2.28-11
6.22-11	7.46-11	1.46-10	4.84-12	9.64-12	7.02-13	5.70-21	3.52-11	1.90-11
6.64-11	3.18-11	9.99-11	5.86-11	1.95-11	8.54-16	9.23-25	1.17-11	3.36-12
1.80-11	1.58-10	1.80-10	4.83-11	8.33-11	5.81-14	7.45-18	7.99-11	3.77-11
3.33-10	2.12-10	5.87-11	5.88-10	4.40-12	3.21-15	1.84-26	3.44-11	1.44-11
9.98-10	2.44-10	5.84-10	1.23-11	7.08-12	6.17-20	6.47-30	3.35-10	2.84-10
6.71-10	3.18-10	4.33-10	1.76-10	4.03-11	3.19-13	2.01-18		
2.00-10	8.15-11	1.76-10	9.69-11	1.81-11	3.00-13	1.98-18	1.04-10	2.48-11
							1.94-08	2.94-09

AIR SCATTERING 6.26 02 ENERGY 2.00 ANGLE 1.35 02 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	0.	0.	6.18-07	2.84-07	0.
4.00 01	0.	0.	0.	0.	0.	0.	4.17-07	0.
6.00 01	0.	0.	0.	0.	0.	0.	3.88-08	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	3.73-08	9.98-08	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	0.	0.	3.94-07	1.81-07	1.08-10
4.00 01	0.	0.	0.	0.	0.	2.28-08	2.90-07	1.93-09
6.00 01	0.	0.	0.	0.	0.	5.79-12	3.08-08	3.57-10
8.00 01	0.	0.	0.	0.	0.	4.72-15	2.03-09	1.24-09
9.00 01	0.	0.	0.	0.	0.	0.	3.82-10	3.03-10
1.00 02	0.	0.	0.	0.	0.	0.	9.30-11	6.23-10
1.20 02	0.	0.	0.	0.	0.	0.	2.26-10	1.51-09
1.40 02	0.	0.	0.	0.	0.	0.	1.03-14	1.38-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.34-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	6.33-11
	0.	0.	0.	0.	0.	2.77-08	7.03-08	1.56-09
	0.	0.	0.	0.	0.	1.05-08	9.41-09	4.41-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	8.41-09	7.39-10
4.00 01	0.	0.	0.	0.	0.	0.	8.21-10	3.98-10
6.00 01	0.	0.	0.	0.	0.	0.	3.64-10	1.22-09
8.00 01	0.	0.	0.	0.	0.	3.46-13	3.94-11	3.82-10
9.00 01	0.	0.	0.	0.	0.	0.	1.35-10	5.69-10
1.00 02	0.	0.	0.	0.	0.	1.66-13	3.10-11	9.38-10
1.20 02	0.	0.	0.	0.	0.	0.	2.78-14	1.25-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.18-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.48-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.73-10
	0.	0.	0.	0.	0.	1.42-13	7.88-10	1.56-09
	0.	0.	0.	0.	0.	1.16-13	3.18-10	4.81-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.98-08	3.02-11
4.00 01	0.	0.	0.	0.	0.	0.	4.07-12	4.93-10
6.00 01	0.	0.	0.	0.	0.	0.	3.97-12	1.02-09
8.00 01	0.	0.	0.	0.	0.	0.	2.55-13	8.68-10
9.00 01	0.	0.	0.	0.	0.	5.76-12	0.	3.11-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.68-10
1.20 02	0.	0.	0.	0.	0.	0.	2.12-13	5.15-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	7.27-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.01-09
1.80 02	0.	0.	0.	0.	0.	0.	0.	5.87-09
	0.	0.	0.	0.	0.	1.00-12	1.20-09	4.22-09
	0.	0.	0.	0.	0.	1.00-12	1.14-09	1.83-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	3.10-11	5.31-09
4.00 01	0.	0.	0.	0.	0.	0.	1.21-12	3.90-10
6.00 01	0.	0.	0.	0.	0.	0.	4.86-13	1.38-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.14-10
9.00 01	0.	0.	0.	0.	0.	0.	1.15-11	5.70-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.46-10
1.20 02	0.	0.	0.	0.	0.	0.	1.93-13	7.64-11
1.40 02	0.	0.	0.	0.	0.	0.	8.54-12	1.68-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.29-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.77-09
	0.	0.	0.	0.	0.	0.	6.54-12	1.13-09
	0.	0.	0.	0.	0.	0.	2.88-12	4.02-10

10163403437 1 1360131737 15

AIR SCATTERING 6.26 02 ENERGY 2.00 ANGLE 1.35 02 DIST. 1.52 02
4.40 01 1.75 03 0. 0. 5.39 04 5.00 01 1.80 03

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
0.	0.	0.	0.	0.	0.	0.	8.79-08	
0.	0.	0.	0.	0.	0.	0.	2.92-08	
0.	0.	0.	0.	0.	0.	0.	2.72-09	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							1.11-08	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
5.50-10	8.23-10	5.63-09	6.84-11	1.28-11	5.63-15	1.67-23	5.61-08	1.68-08
6.49-10	3.55-10	2.14-10	5.28-10	7.87-12	2.01-15	3.53-25	2.30-08	3.98-09
3.94-10	8.96-10	2.42-10	1.50-10	1.63-11	1.40-16	5.68-22	2.21-09	1.50-10
3.48-10	5.73-10	1.42-10	6.44-10	7.30-12	2.13-15	1.61-18	2.40-10	5.84-11
1.59-09	2.92-10	3.63-10	8.62-11	5.30-12	4.91-17	2.65-23	1.14-10	4.53-11
4.01-10	1.26-09	1.52-09	3.14-10	2.02-10	1.21-14	3.04-22	1.18-10	4.00-11
2.97-10	2.78-10	4.12-10	1.38-10	7.53-11	9.01-13	3.89-19	1.19-10	3.92-11
1.02-09	8.72-10	1.57-10	1.38-10	8.19-12	2.15-17	1.39-21	6.93-11	3.15-11
1.03-09	1.29-09	3.91-10	6.32-11	5.17-12	3.23-16	7.95-20	8.33-11	4.03-11
2.26-12	6.53-12	3.87-10	1.77-10	9.90-12	4.49-16	5.24-27	1.30-11	7.60-12
1.26-09	1.35-09	1.08-09	5.19-10	7.31-11	2.98-13	6.54-19		
2.95-10	3.22-10	3.82-10	1.80-10	3.48-11	2.85-13	5.41-19	8.15-09	1.33-09

PHI 45 TO 90 DEGREES

7.98-10	1.96-10	1.64-10	2.04-11	3.48-12	9.31-17	2.57-24	6.62-10	3.51-10
1.72-09	1.85-10	9.57-11	6.45-11	6.60-12	1.45-15	5.85-23	1.47-10	5.15-11
4.02-10	2.09-10	1.91-10	1.19-10	2.35-11	1.51-14	1.95-21	1.11-10	5.15-11
1.61-10	6.91-10	2.58-10	4.82-10	4.44-12	6.02-15	3.38-23	5.43-11	1.13-11
4.06-10	9.78-11	5.42-10	1.73-10	1.46-11	2.07-17	5.40-18	6.76-11	2.10-11
2.88-10	7.52-10	3.02-10	2.42-10	2.03-10	1.15-16	2.20-22	8.80-11	2.97-11
1.85-10	1.24-10	3.48-10	1.21-10	1.31-11	4.69-14	1.73-22	8.02-11	5.41-11
2.07-10	1.13-16	2.70-10	2.81-11	1.75-11	1.56-14	2.37-25	7.50-11	3.29-11
2.48-11	3.28-10	7.07-10	1.45-10	3.44-12	1.26-15	1.73-24	2.66-11	1.09-11
1.12-11	7.33-11	6.89-11	1.32-11	1.49-12	6.24-17	6.02-18	1.24-11	6.59-12
7.48-10	6.04-10	6.20-10	3.46-10	5.64-11	2.54-14	1.30-18		
2.25-10	1.54-10	1.91-10	1.38-10	3.30-11	1.75-14	1.01-18	1.91-10	3.44-11

PHI 90 TO 135 DEGREES

1.11-09	6.44-10	1.26-09	8.59-11	1.38-12	1.00-15	2.47-23	1.47-09	1.32-09
9.83-11	1.18-10	1.97-10	6.04-11	4.17-12	1.33-15	7.33-26	3.59-11	1.49-11
6.51-10	2.19-10	1.85-10	1.45-10	6.32-12	5.36-16	7.05-27	8.52-11	2.55-11
2.40-10	1.48-10	9.78-11	7.58-11	6.07-12	6.91-17	3.88-20	5.84-11	2.73-11
6.14-11	1.81-09	1.21-10	2.84-11	1.82-12	1.58-16	6.92-24	6.46-11	4.19-11
2.62-10	4.91-11	6.61-11	7.42-12	4.40-13	3.06-16	5.26-20	2.04-11	1.01-11
2.18-10	6.85-10	2.48-10	1.19-10	2.49-10	6.48-14	4.47-21	5.87-11	2.05-11
2.03-10	1.22-10	1.03-10	3.34-11	4.64-12	4.84-17	2.63-19	3.76-10	2.79-10
1.17-10	2.16-10	1.17-10	7.75-11	1.99-12	7.19-16	7.88-20	3.13-10	2.87-10
3.41-12	1.01-10	5.31-11	3.75-11	1.18-12	3.61-29	1.01-29	2.98-10	2.92-10
5.37-10	7.88-10	3.56-10	1.48-10	8.77-11	2.18-14	1.07-19		
1.32-10	3.55-10	9.11-11	6.05-11	7.99-11	2.01-14	8.45-20	3.43-10	1.22-10

PHI 135 TO 180 DEGREES

1.14-10	1.49-10	1.80-10	2.41-10	2.63-12	1.72-14	5.16-25	2.82-10	2.34-10
2.97-10	1.08-10	2.00-08	4.61-11	2.93-12	4.10-17	7.82-24	4.34-10	3.98-10
1.82-09	7.43-09	3.73-10	3.33-11	1.41-11	9.38-16	2.81-27	3.21-10	1.77-10
1.46-09	1.84-10	1.58-10	8.65-11	1.87-11	6.24-16	6.13-25	6.69-11	4.34-11
2.57-10	2.80-10	1.20-10	1.76-10	9.86-12	5.70-18	1.76-23	4.76-11	1.91-11
8.62-11	2.19-10	1.06-10	8.64-11	1.75-12	2.40-16	8.96-24	1.87-11	6.37-12
1.62-10	8.93-10	1.46-10	3.94-11	1.30-11	2.46-15	7.50-23	2.98-11	1.34-11
3.56-11	3.58-10	1.07-10	2.49-11	7.83-12	1.27-13	4.90-22	1.38-11	4.81-12
5.24-10	5.28-10	6.74-11	2.51-11	4.05-12	4.95-15	8.26-26	3.96-11	1.98-11
9.92-12	2.06-11	2.37-10	4.19-13	1.09-13	2.02-16	0.	1.44-10	1.05-10
1.23-09	2.55-09	3.78-09	1.29-10	1.96-11	3.69-14	1.61-22		
4.95-10	1.99-09	3.47-09	3.45-11	9.00-12	3.03-14	1.38-22	2.40-10	8.95-11
							1.40-08	2.14-09

AIR SCATTERING 6.27 02 ENERGY 2.00 ANGLE 1.80 02 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	0.	0.	0.	2.28-06	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	1.37-07	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	2.00	1.40	1.00	7.00-01	5.00-01	3.50-01	2.40-01	1.70-01
2.00 01	0.	0.	0.	0.	0.	7.44-14	1.45-06	4.97-10
4.00 01	0.	0.	0.	0.	0.	1.59-17	3.50-09	2.74-10
6.00 01	0.	0.	0.	0.	0.	2.90-15	3.72-10	2.67-09
8.00 01	0.	0.	0.	0.	0.	0.	2.77-11	5.08-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.53-10
1.00 02	0.	0.	0.	0.	0.	0.	7.65-13	6.14-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.97-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.36-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.49-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.36-09
	0.	0.	0.	0.	0.	5.26-15	8.84-08	2.10-09
	0.	0.	0.	0.	0.	2.87-15	1.37-08	1.05-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.39-11	3.21-08	1.01-09
4.00 01	0.	0.	0.	0.	0.	1.51-12	1.26-09	8.18-10
6.00 01	0.	0.	0.	0.	0.	3.62-12	1.34-09	1.05-09
8.00 01	0.	0.	0.	0.	0.	0.	1.20-10	4.80-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.13-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.60-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.77-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.28-10
1.60 02	0.	0.	0.	0.	0.	0.	3.38-12	1.08-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.17-10
	0.	0.	0.	0.	0.	2.06-12	2.55-09	1.51-09
	0.	0.	0.	0.	0.	1.22-12	9.82-10	6.45-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	2.14-11	9.51-09	5.94-10
4.00 01	0.	0.	0.	0.	7.28-15	5.89-15	2.36-08	3.39-09
6.00 01	0.	0.	0.	0.	0.	6.25-11	9.38-10	4.80-09
8.00 01	0.	0.	0.	0.	0.	0.	3.06-11	6.49-10
9.00 01	0.	0.	0.	0.	0.	0.	2.51-13	9.01-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	4.52-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	9.43-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.35-10
1.60 02	0.	0.	0.	0.	0.	0.	1.57-14	1.69-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.70-12
	0.	0.	0.	0.	1.26-15	1.79-11	4.94-09	2.72-09
	0.	0.	0.	0.	1.26-15	1.60-11	3.40-09	1.03-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.23-10	2.67-08	2.33-10
4.00 01	0.	0.	0.	0.	0.	2.24-16	2.14-09	1.88-10
6.00 01	0.	0.	0.	0.	0.	0.	2.11-10	4.51-10
8.00 01	0.	0.	0.	0.	0.	7.08-14	2.25-11	8.85-10
9.00 01	0.	0.	0.	0.	0.	0.	4.73-13	7.91-10
1.00 02	0.	0.	0.	0.	0.	0.	3.28-12	2.35-10
1.20 02	0.	0.	0.	0.	0.	0.	2.37-15	6.51-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	6.81-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	7.80-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.58-09
	0.	0.	0.	0.	0.	7.42-12	2.05-09	9.73-10
	0.	0.	0.	0.	0.	6.68-12	9.54-10	2.17-10

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AIR SCATTERING 6.27 02 ENERGY 2.00 ANGLE 1.80 02 DIST. 1.52 02
4.10 01 1.75 03 0. 0. 5.34 04 5.00 01 1.80 03

FIRST COLLISION

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
0.	0.	0.	0.	0.	0.	0.	1.59-07	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							9.61-09	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

1.20-01	8.40-02	6.00-02	4.00-02	3.00-02	2.00-02	1.50-02		
6.18-10	4.18-10	5.45-10	2.92-11	3.58-12	5.23-16	9.35-21	1.02-07	1.59-08
6.79-10	2.94-10	3.47-10	5.59-11	3.78-12	1.23-16	3.14-22	2.98-10	1.52-10
2.38-10	7.96-10	1.08-10	7.29-11	1.11-11	7.78-17	1.08-22	1.90-10	1.11-10
3.95-10	3.42-10	1.12-10	7.30-11	2.92-12	3.76-15	6.00-23	5.27-11	1.18-11
9.12-11	1.35-10	5.29-11	2.11-11	2.44-12	1.10-16	2.30-21	3.05-11	9.81-12
1.13-09	2.32-10	5.77-10	1.08-09	6.63-13	1.07-16	1.67-23	7.19-11	3.32-11
1.05-10	9.83-11	5.31-11	2.78-10	2.74-12	1.57-16	2.33-25	1.99-11	4.89-12
1.76-10	6.49-11	1.20-10	9.02-12	5.00-13	2.60-16	1.52-23	1.79-10	1.64-10
2.71-11	1.97-10	2.08-10	2.83-11	1.59-11	4.19-15	2.83-25	1.35-11	5.90-12
4.34-15	4.30-10	1.53-11	6.83-11	3.75-12	2.84-14	3.17-26	7.92-11	6.57-11
6.46-10	5.73-10	3.54-10	3.48-10	9.32-12	3.78-15	1.07-21		
1.63-10	1.49-10	9.01-11	2.43-10	3.15-12	1.99-15	7.27-22	6.34-09	9.63-10

PHI 45 TO 90 DEGREES

4.04-10	2.48-09	7.58-10	2.64-11	6.05-12	3.77-16	3.63-21	2.39-09	1.11-09
7.27-10	5.98-10	1.85-10	4.35-11	6.89-12	7.96-15	5.74-21	1.74-10	4.77-11
3.58-10	2.02-10	1.49-09	6.93-11	2.38-12	3.84-15	1.41-20	1.95-10	8.80-11
1.22-10	8.46-10	1.61-10	3.72-11	2.23-11	5.68-16	1.10-26	6.09-11	2.20-11
1.30-10	6.22-10	2.59-10	1.20-10	1.45-12	4.49-17	5.94-24	4.66-11	1.59-11
2.49-10	4.61-10	4.60-10	1.10-10	1.30-11	6.32-16	8.26-26	2.10-10	1.72-10
3.13-10	1.46-10	3.64-11	2.85-11	7.80-11	1.51-17	1.46-27	2.54-11	7.00-12
1.22-11	2.50-09	1.25-10	1.24-10	1.94-12	1.48-15	8.05-26	8.06-11	5.73-11
6.77-11	3.23-10	1.80-10	1.98-10	9.07-12	1.47-13	6.98-25	2.15-11	9.68-12
6.86-09	4.27-12	2.48-10	2.09-11	3.01-12	2.84-18	4.51-25	2.58-10	2.47-10
8.82-10	1.54-09	7.42-10	1.58-10	3.97-11	2.87-14	4.96-21		
4.22-10	6.66-10	3.09-10	5.69-11	2.53-11	2.57-14	3.20-21	3.40-10	8.98-11

PHI 90 TO 135 DEGREES

3.76-09	2.64-10	1.76-10	5.24-11	3.32-12	8.14-15	7.46-19	8.29-10	2.54-10
4.26-10	6.45-10	3.55-10	2.29-10	1.57-11	2.34-15	1.40-21	1.86-09	1.40-09
2.74-09	4.02-10	4.37-10	5.61-11	4.92-12	5.67-14	6.74-26	4.30-10	2.18-10
1.94-10	1.73-10	3.01-10	3.99-11	1.99-12	4.79-15	1.48-24	5.21-11	2.14-11
1.55-10	1.82-10	1.76-10	4.50-11	4.75-12	9.78-16	1.53-23	5.90-11	2.65-11
9.63-11	1.40-10	1.18-09	2.24-11	2.40-12	1.46-16	3.39-23	5.33-11	2.29-11
5.25-09	2.34-10	2.72-10	3.48-11	1.18-10	1.21-17	4.63-21	2.49-10	1.68-10
4.36-10	3.45-10	2.58-10	8.56-11	7.43-11	1.66-18	3.07-24	4.25-11	1.30-11
7.30-11	2.12-10	1.49-10	1.64-10	4.43-11	2.16-17	4.22-26	1.36-11	3.61-12
5.50-11	8.55-11	5.91-10	1.30-11	1.95-12	8.01-14	4.36-37	1.61-11	7.97-12
2.96-09	5.58-10	7.41-10	1.46-10	7.21-11	2.26-14	4.68-20		
1.62-09	1.08-10	1.91-10	4.01-11	5.34-11	1.40-14	4.51-20	6.21-10	2.57-10

PHI 135 TO 180 DEGREES

6.40-10	6.38-10	3.46-10	7.51-11	6.52-13	4.39-15	1.37-21	1.94-09	1.10-09
1.23-09	8.82-10	3.30-10	2.31-10	1.42-10	2.09-14	1.03-18	2.35-10	6.24-11
7.15-10	1.00-08	4.18-10	2.45-10	2.11-12	1.32-16	7.88-19	3.15-10	1.98-10
3.34-10	2.43-10	1.22-10	3.93-11	2.64-11	1.12-14	2.52-22	6.68-11	1.77-11
1.41-10	7.10-11	5.73-10	1.03-10	4.73-12	3.78-14	5.20-21	5.89-11	1.92-11
8.82-10	4.08-11	9.27-11	2.55-11	1.20-12	8.06-16	1.98-19	4.68-11	2.61-11
1.97-10	1.53-10	1.11-10	4.26-10	1.06-11	7.01-15	9.90-19	4.99-11	2.04-11
8.99-10	3.33-10	8.06-11	1.56-09	1.97-12	1.33-16	5.31-25	5.38-11	2.20-11
3.93-10	1.90-10	4.12-11	1.32-10	1.80-12	3.96-16	4.21-24	2.48-11	1.18-11
1.40-10	1.90-11	8.88-10	7.31-11	1.82-12	7.94-16	3.52-21	9.89-11	7.66-11
1.06-09	3.13-09	4.51-10	7.28-10	3.94-11	1.67-14	7.47-19		
3.06-10	2.16-09	9.72-11	5.12-10	2.36-11	9.09-15	4.51-19	3.23-10	8.70-11
							1.20-08	1.64-09

AIR SCATTERING 6.28 02 ENERGY 1.00 ANGLE 1.00 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	1.85-04	0.	0.	0.	0.	0.	0.	0.
4.00 01	9.05-05	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	7.59-05	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	1.53-04	0.	0.
	2.69-05	0.	0.	0.	2.02-05	9.21-06	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	1.18-04	0.	0.	0.	0.	0.	2.49-11	5.03-10
4.00 01	5.76-05	0.	0.	0.	0.	0.	1.19-08	4.86-09
6.00 01	0.	0.	0.	0.	0.	0.	3.80-10	2.07-09
8.00 01	0.	0.	0.	0.	0.	4.84-12	2.81-10	7.47-10
9.00 01	0.	0.	0.	0.	0.	0.	5.28-09	7.86-10
1.00 02	0.	0.	0.	0.	0.	1.36-13	1.05-09	8.79-10
1.20 02	0.	0.	0.	0.	0.	5.45-11	4.29-09	3.22-10
1.40 02	0.	0.	0.	0.	4.83-05	2.00-09	1.76-09	1.85-09
1.60 02	0.	0.	0.	0.	8.26-12	5.41-09	3.46-10	9.76-10
1.80 02	0.	0.	0.	1.97-12	2.50-10	9.72-05	1.30-09	4.79-10
	1.71-05	0.	0.	1.19-13	1.29-05	5.87-06	5.37-09	2.75-09
	1.06-05	0.	0.	1.19-13	1.29-05	3.18-06	2.21-09	7.06-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.07-10
4.00 01	0.	0.	0.	0.	0.	0.	2.05-11	3.90-09
6.00 01	0.	0.	0.	0.	0.	0.	1.00-10	7.46-10
8.00 01	0.	0.	0.	0.	0.	0.	5.53-09	5.75-10
9.00 01	0.	0.	0.	0.	0.	2.45-13	6.08-09	9.01-10
1.00 02	0.	0.	0.	0.	0.	0.	9.44-10	4.85-10
1.20 02	0.	0.	0.	0.	0.	2.50-11	1.63-09	1.05-09
1.40 02	0.	0.	0.	0.	1.51-11	7.17-10	2.07-09	2.05-09
1.60 02	0.	0.	0.	0.	2.26-10	1.67-08	6.47-10	5.98-10
1.80 02	0.	0.	0.	0.	3.05-10	1.88-08	4.38-10	1.15-08
	0.	0.	0.	0.	6.17-11	4.23-09	3.55-09	3.24-09
	0.	0.	0.	0.	3.94-11	1.23-09	1.34-09	1.08-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.31-09
4.00 01	0.	0.	0.	0.	0.	0.	2.40-12	2.50-09
6.00 01	0.	0.	0.	0.	0.	0.	3.71-11	4.59-10
8.00 01	0.	0.	0.	0.	0.	2.00-11	2.22-10	3.41-10
9.00 01	0.	0.	0.	0.	0.	8.83-15	4.37-09	5.80-10
1.00 02	0.	0.	0.	0.	0.	2.27-12	5.94-09	6.34-10
1.20 02	0.	0.	0.	0.	1.04-12	1.65-11	3.39-09	1.74-09
1.40 02	0.	0.	0.	0.	8.64-11	2.35-10	8.41-09	3.87-10
1.60 02	0.	0.	0.	4.50-13	1.10-11	4.92-09	7.97-10	8.58-10
1.80 02	0.	0.	0.	2.55-11	3.66-10	7.87-09	7.65-10	7.59-10
	0.	0.	0.	1.62-12	4.73-11	1.40-09	5.05-09	1.94-09
	0.	0.	0.	1.44-12	1.76-11	5.01-10	1.78-09	4.67-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	6.69-10
4.00 01	0.	0.	0.	0.	0.	0.	1.13-11	2.19-09
6.00 01	0.	0.	0.	0.	0.	0.	2.74-09	1.73-09
8.00 01	0.	0.	0.	0.	0.	0.	1.60-08	7.50-10
9.00 01	0.	0.	0.	0.	0.	0.	4.01-10	2.87-10
1.00 02	0.	0.	0.	0.	0.	0.	2.42-09	3.54-10
1.20 02	0.	0.	0.	7.25-11	2.18-12	4.94-11	2.14-09	1.34-09
1.40 02	0.	0.	0.	1.74-12	1.61-11	7.16-10	1.41-09	4.65-10
1.60 02	0.	0.	0.	6.13-12	1.27-11	4.56-09	5.54-10	1.02-09
1.80 02	0.	0.	1.30-10	3.54-10	3.21-11	4.17-08	1.76-09	1.06-09
	0.	0.	7.83-12	4.66-11	9.15-12	3.52-09	7.72-09	2.21-09
	0.	0.	6.12-12	2.70-11	3.01-12	1.28-09	4.78-09	5.49-10

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AIR SCATTERING 6.28 02 ENERGY 1.00 ANGLE 1.00 DIST. 1.52 02
5.50 01 1.72 03 0. 0. 5.57 04 5.00 01 1.80 03

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	4.81-05
0.	0.	0.	0.	0.	0.	0.	2.35-05
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	6.83-06
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	7.63-06
0.	0.	0.	0.	0.	0.	0.	
							9.27-06

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
1.41-10	1.28-10	3.07-11	6.12-12	6.08-14	1.28-19	1.77-35	3.06-05	1.51-05
7.45-11	2.21-10	1.50-10	1.44-11	9.93-12	1.44-16	7.64-27	1.50-05	1.30-05
1.78-10	4.01-10	2.23-10	9.79-11	1.04-12	1.75-12	8.27-28	9.95-11	4.08-11
1.34-09	2.96-10	8.02-10	1.27-10	3.96-12	2.22-13	7.06-26	8.55-11	2.80-11
8.05-10	1.76-10	1.53-10	4.42-11	1.96-12	6.17-13	3.64-25	2.63-10	1.02-10
7.94-10	3.36-10	2.81-10	2.40-10	8.32-12	1.91-15	4.39-25	1.02-10	3.39-11
2.89-10	1.39-09	8.20-10	1.06-10	2.04-12	6.93-15	5.67-21	2.24-10	8.55-11
1.14-09	8.37-10	1.46-09	1.49-10	1.07-12	1.83-16	7.55-26	4.35-06	4.35-06
2.80-09	4.03-10	3.24-10	1.74-10	4.76-12	1.26-16	1.94-26	4.00-10	1.13-10
1.15-09	4.72-10	5.79-10	2.25-10	3.09-12	6.17-18	7.00-29	4.86-06	2.64-06
1.75-09	1.11-09	1.17-09	2.38-10	7.04-12	5.42-13	1.85-21		
3.93-10	3.02-10	4.13-10	7.35-11	2.45-12	5.38-13	1.73-21	5.90-06	2.99-06

PHI 45 TO 90 DEGREES

6.97-10	6.22-11	1.75-11	1.55-12	1.10-10	3.82-19	3.73-32	2.63-11	1.78-11
3.96-10	1.25-10	1.51-09	4.57-11	2.75-13	1.08-16	2.60-25	1.64-10	1.04-10
2.61-10	6.16-11	2.60-10	6.73-10	3.14-12	4.28-16	6.53-26	4.60-11	1.52-11
1.10-09	4.29-11	4.84-11	7.73-11	3.64-13	6.91-18	8.36-35	1.82-10	1.11-10
5.82-10	7.04-10	1.08-10	2.78-11	1.16-11	2.90-17	6.25-26	3.00-10	2.21-10
5.06-10	1.00-09	1.94-09	4.61-11	1.29-13	5.13-19	9.86-26	1.06-10	2.78-11
4.31-10	8.42-10	4.45-10	2.43-11	5.45-12	2.21-16	1.80-24	1.31-10	3.52-11
5.60-10	1.32-09	1.93-10	3.90-11	1.47-12	5.87-16	9.14-28	2.57-10	5.74-11
5.18-10	1.36-09	1.97-10	7.51-11	4.15-13	1.13-15	1.01-22	9.37-10	3.45-10
6.84-10	1.98-10	4.03-10	3.18-11	1.13-11	4.80-16	2.40-32	1.40-09	4.42-10
1.15-09	1.23-09	9.59-10	2.58-10	1.26-11	5.93-16	1.85-23		
3.35-10	4.15-10	3.65-10	1.77-10	7.13-12	1.87-16	1.70-23	5.31-10	9.51-11

PHI 90 TO 135 DEGREES

1.02-11	5.65-10	1.59-10	3.35-12	1.44-12	3.45-18	5.28-26	8.91-11	7.65-11
2.77-10	3.00-10	7.73-11	5.32-11	1.51-12	1.51-16	9.80-24	9.79-11	4.37-11
3.64-10	8.28-11	6.61-11	5.53-11	2.00-10	3.90-17	1.55-25	2.99-11	9.69-12
3.28-10	3.66-10	2.11-10	3.92-11	6.43-10	7.80-17	5.58-25	3.81-11	8.37-12
1.68-10	1.45-10	1.84-10	4.34-11	6.13-13	6.55-18	2.86-27	2.04-10	1.30-10
3.51-10	1.70-10	5.84-11	1.39-10	5.64-13	1.84-17	1.17-26	1.92-10	9.00-11
5.53-10	2.99-10	2.12-10	5.40-11	8.28-12	8.89-14	3.86-22	2.19-10	1.02-10
1.16-09	6.36-10	5.72-10	2.04-10	9.80-12	7.25-15	3.27-23	4.23-10	2.18-10
6.09-10	2.86-10	1.61-10	8.92-11	5.46-12	2.35-15	1.46-25	3.30-10	1.43-10
1.88-09	3.62-10	3.27-10	1.52-10	2.79-12	1.44-15	2.01-30	5.43-10	1.02-10
1.09-09	6.21-10	4.21-10	1.65-10	6.13-11	3.14-14	1.37-22		
1.70-10	8.89-11	8.81-11	5.46-11	5.23-11	2.91-14	1.34-22	3.86-10	7.87-11

PHI 135 TO 180 DEGREES

1.01-09	3.90-11	1.19-11	9.41-11	3.76-13	6.64-20	1.75-29	4.95-11	2.85-11
7.45-10	1.28-10	2.16-10	7.11-11	3.14-12	3.99-15	1.09-21	9.86-11	3.08-11
2.49-10	2.04-10	1.27-10	2.56-11	8.91-13	1.30-16	4.86-25	1.82-10	1.08-10
1.45-09	1.69-10	1.16-09	3.00-11	5.28-12	4.40-15	2.10-21	7.18-10	5.77-10
3.88-10	4.66-10	1.56-10	3.51-09	4.13-12	1.35-16	3.71-29	7.59-11	3.35-11
5.14-10	1.28-10	2.50-10	3.83-09	1.05-12	5.94-18	1.73-24	1.61-10	8.42-11
2.34-09	2.10-10	1.37-10	4.76-11	1.64-12	1.42-17	1.15-23	2.12-10	8.09-11
7.17-10	3.56-10	1.92-10	3.43-11	1.05-12	6.82-17	2.31-23	1.42-10	3.79-11
1.29-09	5.47-10	4.74-10	3.03-11	2.14-12	9.18-15	2.70-26	3.33-10	8.80-11
1.12-09	1.66-09	1.63-10	4.06-11	2.41-12	7.05-15	1.57-22	2.33-09	1.03-09
2.13-09	5.96-10	7.10-10	1.34-09	4.76-12	4.23-15	8.86-22		
5.11-10	1.16-10	3.48-10	1.26-09	1.99-12	1.97-15	7.11-22	6.49-10	2.04-10
							9.27-06	4.70-06

AIR SCATTERING 6.29 02 ENERGY 1.00 ANGLE 1.50 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	1.02-05	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	2.71-06	8.74-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	1.07-06	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	1.12-06	0.	0.	0.	0.
9.00 01	0.	0.	0.	8.94-07	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	8.62-07	0.	0.	0.
1.20 02	0.	0.	0.	0.	9.83-07	0.	0.	0.
1.40 02	0.	0.	0.	0.	1.11-06	0.	0.	0.
1.60 02	0.	0.	0.	0.	2.96-07	2.64-06	0.	0.
1.80 02	0.	0.	0.	0.	0.	1.64-06	0.	0.
	6.14-07	4.71-07	4.35-07	5.21-07	8.18-07	5.57-07	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	6.48-06	0.	0.	0.	0.	0.	1.23-11	8.67-10
4.00 01	0.	1.73-06	5.57-07	0.	5.88-08	0.	1.90-10	2.29-09
6.00 01	0.	0.	6.79-07	0.	0.	0.	1.57-09	7.12-10
8.00 01	0.	0.	0.	2.13-07	0.	0.	1.74-08	3.99-10
9.00 01	0.	0.	0.	5.69-07	0.	0.	1.80-09	1.17-09
1.00 02	0.	0.	0.	0.	5.49-07	1.50-11	1.43-09	2.03-09
1.20 02	0.	0.	0.	0.	6.26-07	1.57-09	4.80-09	2.98-10
1.40 02	0.	0.	0.	0.	7.09-07	2.35-08	1.14-09	6.71-10
1.60 02	0.	0.	0.	1.04-16	1.88-07	1.76-06	1.45-09	4.98-10
1.80 02	0.	0.	0.	1.56-12	9.53-10	1.09-06	2.29-09	1.18-09
	3.91-07	3.00-07	2.77-07	3.32-07	5.31-07	3.78-07	8.96-09	1.76-09
	1.17-07	1.50-07	1.60-07	1.92-07	1.74-07	6.10-08	3.83-09	3.66-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.22-10	7.89-10
4.00 01	0.	0.	0.	0.	0.	0.	4.74-11	4.63-09
6.00 01	0.	0.	0.	0.	0.	7.60-13	2.35-09	1.67-09
8.00 01	0.	0.	0.	0.	0.	1.99-13	1.41-09	1.16-08
9.00 01	0.	0.	0.	0.	0.	2.81-13	2.24-09	3.73-10
1.00 02	0.	0.	0.	0.	0.	2.92-11	1.11-08	1.36-09
1.20 02	0.	0.	0.	0.	0.	3.03-09	7.47-10	5.27-10
1.40 02	0.	0.	0.	0.	2.43-11	7.48-09	1.58-09	5.66-10
1.60 02	0.	0.	0.	0.	3.23-12	1.46-08	1.42-09	1.76-09
1.80 02	0.	0.	0.	3.72-14	1.63-11	9.20-09	7.12-10	2.15-09
	0.	0.	0.	2.24-15	8.01-12	6.08-09	4.37-09	6.15-09
	0.	0.	0.	2.24-15	5.41-12	2.23-09	1.70-09	3.69-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.26-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.60-10
6.00 01	0.	0.	0.	0.	0.	3.71-14	2.35-09	7.52-10
8.00 01	0.	0.	0.	0.	0.	4.66-14	1.03-08	9.78-10
9.00 01	0.	0.	0.	0.	0.	4.50-12	2.21-10	2.45-10
1.00 02	0.	0.	0.	0.	0.	1.29-11	1.67-09	2.59-10
1.20 02	0.	0.	0.	0.	2.14-12	3.78-11	3.06-09	1.18-09
1.40 02	0.	0.	0.	0.	8.93-11	1.13-09	2.41-09	7.21-10
1.60 02	0.	0.	0.	0.	1.18-11	3.17-09	1.37-09	6.10-10
1.80 02	0.	0.	0.	0.	3.13-11	1.01-08	9.72-11	6.68-10
	0.	0.	0.	0.	2.84-11	1.47-09	6.21-09	1.37-09
	0.	0.	0.	0.	2.20-11	4.56-10	3.42-09	2.89-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.94-10	4.42-08
4.00 01	0.	0.	0.	0.	0.	0.	8.33-10	5.38-09
6.00 01	0.	0.	0.	0.	0.	5.90-12	1.40-08	6.14-10
8.00 01	0.	0.	0.	0.	0.	9.36-13	7.09-10	1.10-09
9.00 01	0.	0.	0.	0.	0.	0.	1.05-09	1.55-10
1.00 02	0.	0.	0.	0.	0.	0.	6.17-09	4.62-10
1.20 02	0.	0.	0.	0.	0.	2.46-10	1.99-09	1.92-09
1.40 02	0.	0.	0.	0.	1.98-13	1.41-10	2.35-08	3.15-10
1.60 02	0.	0.	0.	0.	9.17-11	2.70-09	6.06-10	4.23-09
1.80 02	0.	0.	2.35-14	0.	7.72-10	3.24-09	3.19-10	8.47-10
	0.	0.	1.42-15	0.	6.26-11	7.83-10	1.24-08	5.72-09
	0.	0.	1.42-15	0.	4.08-11	2.98-10	9.51-09	2.87-09

150445055101 1047523154 31

AIR SCATTERING 6.29 02 ENERGY 1.00 ANGLE 1.50 01 DIST. 1.52 02
4.80 01 1.73 03 0. 0. 5.58 04 5.00 01 1.80 03

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	2.65-06
0.	0.	0.	0.	0.	0.	0.	6.46-07
0.	0.	0.	0.	0.	0.	0.	1.60-07
0.	0.	0.	0.	0.	0.	0.	1.12-07
0.	0.	0.	0.	0.	0.	0.	8.94-08
0.	0.	0.	0.	0.	0.	0.	7.76-08
0.	0.	0.	0.	0.	0.	0.	8.85-08
0.	0.	0.	0.	0.	0.	0.	1.00-07
0.	0.	0.	0.	0.	0.	0.	1.58-07
0.	0.	0.	0.	0.	0.	0.	8.20-08
0.	0.	0.	0.	0.	0.	0.	4.68-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
3.93-11	3.10-09	4.41-10	3.61-12	1.56-13	6.26-17	2.34-25	1.69-06	5.04-07
1.36-09	2.22-09	1.37-10	3.93-12	5.03-13	1.81-16	1.25-22	4.17-07	1.84-07
2.91-10	8.29-10	2.30-10	1.36-10	4.43-14	1.04-16	1.52-28	1.02-07	7.20-08
3.21-09	3.03-10	3.54-10	1.84-10	8.57-13	7.11-17	6.54-28	7.21-08	5.05-08
3.56-10	5.14-10	1.50-09	7.96-11	4.35-13	8.27-16	1.15-24	5.71-08	5.69-08
6.42-10	3.15-10	5.56-10	3.53-11	6.12-12	9.67-17	2.61-27	4.95-08	4.94-08
7.68-10	4.06-10	1.26-10	1.24-11	4.86-12	3.03-16	4.87-26	5.66-08	3.29-08
1.13-09	1.61-09	3.85-10	3.34-11	3.70-13	2.61-15	1.80-27	6.51-08	2.71-08
2.57-09	2.67-10	6.20-10	2.18-10	2.63-12	6.47-15	1.89-24	1.05-07	2.09-08
1.84-09	7.09-10	2.36-10	5.99-11	9.53-12	1.68-15	2.94-25	5.50-08	4.76-09
2.64-09	1.69-09	8.50-10	1.72-10	4.24-12	2.26-15	2.23-23		
7.57-10	4.40-10	2.46-10	7.90-11	2.00-12	1.34-15	2.17-23	3.00-07	5.39-08

PHI 45 TO 90 DEGREES

3.12-11	3.04-11	3.97-11	9.87-12	1.21-15	1.60-17	5.55-29	3.35-11	1.68-11
8.89-11	4.02-11	2.87-10	1.12-10	3.11-11	8.98-16	8.05-27	1.67-10	1.15-10
5.35-10	2.79-10	3.59-10	3.24-11	6.61-13	1.96-17	1.69-26	1.73-10	8.54-11
2.80-10	2.23-10	5.37-10	4.09-11	1.25-12	4.22-16	2.73-25	4.68-10	3.79-10
2.25-10	9.89-10	1.28-10	8.70-11	7.32-12	8.34-17	1.44-28	1.25-10	6.10-11
1.10-09	4.99-09	1.89-10	1.80-11	2.10-12	2.78-16	5.97-24	5.96-10	3.59-10
1.85-09	2.75-10	3.76-10	2.49-11	1.54-09	2.50-13	4.02-24	2.64-10	1.16-10
3.47-10	3.24-10	2.29-10	7.57-11	2.48-12	2.07-13	2.62-20	4.77-10	2.45-10
4.93-10	7.41-10	4.49-10	3.59-11	6.03-13	5.07-16	2.27-27	8.78-10	4.73-10
6.62-10	1.92-09	1.90-10	1.29-11	3.30-13	8.74-17	2.10-26	6.11-10	2.83-10
1.29-09	1.64-09	6.47-10	9.50-11	5.10-10	1.37-13	6.98-21		
2.90-10	8.09-10	1.64-10	2.42-11	5.01-10	8.64-14	6.98-21	7.57-10	1.90-10

PHI 90 TO 135 DEGREES

2.07-10	7.49-11	1.05-09	9.99-12	2.07-13	3.75-18	2.77-31	2.66-11	1.17-11
9.42-10	4.98-10	8.44-11	5.53-11	5.86-13	5.68-16	1.28-28	3.80-11	2.08-11
1.82-10	8.28-10	2.78-10	3.21-11	9.06-13	4.56-16	9.17-23	1.40-10	9.29-11
4.00-10	1.77-10	3.06-10	4.08-11	4.21-13	2.09-16	5.66-26	4.63-10	4.02-10
1.85-09	8.78-11	9.54-11	2.44-11	6.79-15	2.38-18	8.87-28	6.64-11	4.05-11
1.77-09	6.18-09	2.93-10	3.14-11	1.55-11	3.86-18	1.32-24	2.17-10	1.04-10
4.92-10	2.66-10	5.41-10	8.38-12	1.18-12	4.42-17	1.95-23	1.87-10	7.72-11
2.05-09	2.26-10	1.27-10	9.30-10	1.03-13	3.38-17	1.27-28	2.50-10	6.38-11
3.32-09	1.77-09	3.13-10	2.79-11	3.72-11	2.22-18	7.51-23	3.49-10	1.13-10
1.20-09	5.92-10	1.20-09	4.12-11	1.11-13	1.36-17	4.52-27	5.86-10	2.22-10
2.34-09	1.95-09	6.56-10	2.99-10	1.01-11	3.14-16	4.41-23		
6.38-10	1.07-09	1.49-10	2.39-10	7.11-12	1.34-16	2.42-23	4.69-10	1.42-10

PHI 135 TO 180 DEGREES

1.30-11	3.20-10	8.77-11	1.04-10	7.59-14	1.38-19	1.36-26	1.52-09	1.49-09
4.71-10	7.30-10	2.82-10	1.96-11	2.66-13	5.99-17	3.29-27	2.43-10	1.49-10
7.35-10	1.58-10	4.25-10	1.21-11	1.99-11	2.86-18	6.84-26	6.08-10	5.60-10
3.22-10	1.80-10	1.30-10	2.13-11	6.01-14	2.52-18	8.85-29	7.82-11	2.50-11
8.51-10	1.06-10	8.46-10	1.13-11	1.32-13	5.22-18	6.95-31	7.52-11	4.17-11
5.78-10	9.28-10	4.82-11	4.34-11	1.74-12	3.10-17	5.85-31	2.92-10	1.97-10
1.30-09	4.24-10	8.34-10	3.72-11	6.82-13	1.03-13	3.95-29	2.07-10	5.28-11
3.54-10	1.06-09	4.28-10	2.37-10	1.74-10	5.53-17	7.99-26	9.89-10	8.65-10
7.14-10	7.12-09	3.80-10	6.44-11	6.78-11	9.32-14	9.53-25	4.41-10	1.87-10
1.57-09	1.66-09	4.18-10	2.80-10	1.75-13	6.47-13	2.49-25	3.45-10	1.37-10
1.33-09	2.18-09	8.38-10	1.33-10	6.40-11	8.87-14	2.21-25		
3.40-10	1.17-09	2.51-10	4.24-11	5.79-11	6.45-14	1.67-25	8.13-10	3.94-10
							4.75-07	8.47-08

AIR SCATTERING 6.30 02 ENERGY 1.00 ANGLE 3.00 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	1.03-06	3.14-06	0.	0.	0.	0.	0.	0.
4.00 01	0.	3.71-07	6.73-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	2.71-07	3.74-07	0.	0.	0.	0.
8.00 01	0.	0.	0.	2.75-07	2.69-07	0.	0.	0.
9.00 01	0.	0.	0.	0.	6.22-07	0.	0.	0.
1.00 02	0.	0.	0.	0.	3.29-07	0.	0.	0.
1.20 02	0.	0.	0.	0.	5.12-07	0.	0.	0.
1.40 02	0.	0.	0.	0.	2.09-07	6.35-07	0.	0.
1.60 02	0.	0.	0.	0.	0.	6.01-07	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	6.22-08	2.54-07	1.89-07	1.89-07	4.76-07	2.73-07	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	6.57-07	2.00-06	0.	0.	0.	0.	8.68-12	3.57-10
4.00 01	0.	2.36-07	4.29-07	0.	0.	0.	3.45-09	3.78-09
6.00 01	0.	0.	1.73-07	2.38-07	0.	0.	1.60-09	4.17-10
8.00 01	0.	0.	0.	1.75-07	1.71-07	6.24-10	5.56-10	5.92-10
9.00 01	0.	0.	0.	0.	3.96-07	1.27-10	2.67-09	4.93-10
1.00 02	0.	0.	0.	0.	2.10-07	7.17-10	2.60-09	1.06-09
1.20 02	0.	0.	0.	0.	3.26-07	8.63-09	5.19-09	1.57-09
1.40 02	0.	0.	0.	0.	1.33-07	4.43-07	5.18-10	4.80-10
1.60 02	0.	0.	0.	1.00-11	1.13-10	4.05-07	9.49-10	1.47-09
1.80 02	0.	0.	0.	5.90-11	4.75-10	4.04-09	1.61-09	6.58-09
	3.96-08	1.62-07	1.20-07	1.21-07	3.03-07	1.92-07	4.21-09	2.54-09
	2.29-08	5.70-08	5.38-08	6.03-08	7.18-08	2.30-08	1.35-09	6.73-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.00-08
4.00 01	0.	0.	0.	0.	0.	0.	1.44-10	8.50-10
6.00 01	0.	0.	0.	0.	0.	0.	1.01-08	6.63-10
8.00 01	0.	0.	0.	0.	0.	9.91-12	1.13-09	3.41-10
9.00 01	0.	0.	0.	0.	0.	8.11-11	2.90-09	8.86-09
1.00 02	0.	0.	0.	0.	0.	3.26-11	8.85-10	1.90-10
1.20 02	0.	0.	0.	0.	7.85-11	6.62-10	3.60-09	1.09-09
1.40 02	0.	0.	0.	1.61-13	1.06-11	8.61-10	9.73-10	6.53-10
1.60 02	0.	0.	0.	2.24-10	1.16-10	2.72-09	5.00-10	8.25-10
1.80 02	0.	0.	0.	5.08-12	1.05-10	2.89-08	3.62-10	5.79-10
	0.	0.	0.	3.92-11	5.49-11	2.68-09	5.28-09	3.32-09
	0.	0.	0.	3.84-11	2.92-11	1.25-09	1.90-09	1.55-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	5.45-10	1.60-09
4.00 01	0.	0.	0.	0.	0.	0.	1.53-11	2.49-09
6.00 01	0.	0.	0.	0.	0.	0.	4.82-11	1.77-09
8.00 01	0.	0.	0.	0.	0.	0.	1.78-08	1.12-09
9.00 01	0.	0.	0.	0.	0.	8.09-11	9.20-10	1.08-09
1.00 02	0.	0.	0.	0.	0.	0.	1.82-09	4.29-10
1.20 02	0.	0.	0.	0.	2.42-12	3.19-10	5.74-09	1.72-10
1.40 02	0.	0.	0.	0.	1.55-13	9.57-10	5.48-10	3.54-10
1.60 02	0.	0.	0.	0.	4.79-10	4.34-10	2.64-09	2.20-10
1.80 02	0.	0.	0.	0.	3.14-11	6.89-10	3.72-10	2.17-10
	0.	0.	0.	0.	8.59-11	4.90-10	8.84-09	1.83-09
	0.	0.	0.	0.	8.22-11	2.61-10	5.87-09	5.52-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.11-09
4.00 01	0.	0.	0.	0.	0.	0.	5.08-11	1.61-09
6.00 01	0.	0.	0.	0.	0.	0.	7.58-15	6.00-09
8.00 01	0.	0.	0.	0.	0.	0.	1.33-10	2.92-10
9.00 01	0.	0.	0.	0.	0.	0.	5.87-09	8.52-10
1.00 02	0.	0.	0.	0.	0.	0.	6.24-10	4.07-10
1.20 02	0.	0.	0.	0.	0.	3.13-11	1.15-09	9.98-10
1.40 02	0.	0.	0.	0.	1.13-11	3.52-10	2.07-09	1.45-09
1.60 02	0.	0.	0.	0.	3.30-11	4.73-10	1.46-09	7.02-10
1.80 02	0.	0.	0.	0.	5.12-12	9.13-10	1.91-10	2.48-10
	0.	0.	0.	0.	9.04-12	2.41-10	2.37-09	3.11-09
	0.	0.	0.	0.	4.70-12	1.15-10	1.11-09	1.44-09

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AIR SCATTERING 6.30 02 ENERGY 1.00 ANGLE 3.00 01 DIST. 1.52 02
5.10 01 1.73 03 0. 0. 5.52 04 5.00 01 1.80 03

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	8.65-07
0.	0.	0.	0.	0.	0.	0.	1.71-07
0.	0.	0.	0.	0.	0.	0.	7.81-08
0.	0.	0.	0.	0.	0.	0.	5.18-08
0.	0.	0.	0.	0.	0.	0.	5.60-08
0.	0.	0.	0.	0.	0.	0.	2.96-08
0.	0.	0.	0.	0.	0.	0.	4.61-08
0.	0.	0.	0.	0.	0.	0.	5.06-08
0.	0.	0.	0.	0.	0.	0.	3.00-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							1.68-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
9.90-10	4.72-11	7.36-10	1.56-11	5.30-13	8.76-19	1.66-26	5.51-07	1.83-07
7.81-11	3.47-10	2.96-10	4.10-11	1.56-12	1.00-17	3.61-26	1.09-07	4.88-08
2.05-10	3.91-10	1.80-09	1.70-10	7.60-13	1.94-16	9.76-25	4.98-08	2.49-08
2.82-10	4.38-10	2.14-10	2.43-11	8.22-14	1.39-17	2.26-22	3.30-08	1.65-08
2.69-10	2.32-10	1.10-10	2.92-11	3.70-13	1.26-14	7.02-21	3.58-08	2.06-08
5.17-10	7.60-10	9.47-10	5.33-11	2.75-13	5.73-14	1.15-20	1.91-08	1.34-08
8.49-10	1.39-10	1.61-10	2.69-10	3.37-12	7.40-17	2.13-29	3.01-08	9.58-09
8.96-10	3.68-10	1.07-10	1.33-10	2.13-12	6.22-15	2.54-21	3.42-08	6.18-09
1.38-09	2.80-09	1.93-10	6.99-11	1.73-11	1.14-14	5.91-26	2.04-08	1.73-09
1.31-09	4.84-10	4.56-10	1.47-11	2.02-12	4.67-15	1.53-32	5.85-10	1.98-10
1.19-09	1.14-09	9.71-10	2.12-10	5.45-12	1.61-14	3.97-21		
1.93-10	3.81-10	3.99-10	8.31-11	3.60-12	1.00-14	3.35-21	1.08-07	1.71-08

PHI 45 TO 90 DEGREES

9.38-10	1.13-09	4.95-10	4.36-11	5.09-13	5.94-18	3.15-30	3.87-10	2.92-10
9.44-10	3.41-09	9.18-10	5.92-11	1.54-12	1.23-16	9.68-28	1.21-10	5.10-11
2.55-10	2.11-09	1.09-09	7.24-11	1.14-12	8.45-17	1.49-26	4.79-10	2.72-10
9.61-10	2.63-10	1.12-10	9.71-11	8.78-13	8.32-18	9.02-28	8.75-11	2.15-11
5.87-10	1.15-08	1.80-10	1.44-11	3.63-13	1.05-16	2.36-27	6.11-10	3.37-10
7.38-10	9.31-10	8.59-10	1.18-10	1.17-13	5.35-15	1.56-30	8.73-11	2.44-11
1.21-09	3.83-10	5.28-10	4.95-10	4.28-10	5.66-16	9.94-23	2.70-10	7.54-11
7.44-10	6.87-10	1.93-09	6.69-11	2.54-12	2.18-15	6.18-25	1.58-10	3.41-11
8.55-10	6.79-10	1.95-10	6.04-11	8.85-13	1.18-16	4.07-24	2.51-10	8.57-11
6.12-10	1.08-10	3.44-10	2.14-10	8.93-13	3.72-15	2.90-23	1.51-09	1.00-09
1.61-09	3.90-09	1.44-09	2.90-10	1.42-10	2.00-15	3.51-23		
4.44-10	2.46-09	5.87-10	1.59-10	1.39-10	1.04-15	2.86-23	5.87-10	1.23-10

PHI 90 TO 135 DEGREES

6.80-09	1.81-11	3.47-11	4.93-11	1.83-13	6.81-18	1.72-32	2.47-10	1.72-10
1.32-09	2.10-09	1.99-10	2.48-11	3.23-13	1.14-16	3.37-29	1.52-10	8.16-11
7.21-09	5.58-10	9.99-11	4.59-11	1.36-12	3.81-18	8.26-29	2.52-10	1.79-10
3.54-10	4.56-10	1.61-10	1.74-11	2.96-12	7.67-16	2.28-23	7.68-10	6.92-10
9.07-11	1.70-10	2.95-10	5.85-11	8.58-13	2.48-16	4.29-27	8.63-11	3.77-11
1.15-10	5.57-10	1.42-10	9.42-11	1.24-12	1.36-16	7.23-27	1.01-10	4.44-11
3.08-10	5.42-10	3.35-10	1.43-10	2.14-12	1.34-16	4.36-25	2.73-10	1.92-10
3.99-10	7.67-10	3.29-10	6.33-11	1.33-12	3.27-16	4.49-23	1.08-10	4.71-11
8.54-10	3.40-10	6.64-10	3.93-11	3.76-13	7.81-16	6.51-25	2.13-10	9.23-11
6.07-10	1.76-10	5.77-10	2.02-11	4.93-14	3.04-15	5.27-26	8.44-11	1.88-11
3.10-09	1.24-09	5.39-10	1.23-10	2.88-12	7.88-16	1.96-23		
1.92-09	3.32-10	1.19-10	3.65-11	1.01-12	3.35-16	1.39-23	5.52-10	2.41-10

PHI 135 TO 180 DEGREES

4.68-11	4.12-09	1.65-10	2.89-10	7.01-14	3.71-18	0.	1.05-10	6.53-11
2.43-10	2.51-09	1.34-10	2.67-10	2.12-13	4.87-18	1.98-26	1.04-10	4.94-11
4.32-10	1.95-09	4.49-10	1.41-11	1.60-13	8.53-18	4.65-25	2.50-10	1.79-10
4.03-09	1.70-10	2.31-09	2.03-11	1.07-12	5.36-16	1.59-24	1.46-10	1.08-10
4.70-10	3.67-10	8.93-10	1.36-11	9.81-13	1.21-16	1.27-27	2.92-10	2.33-10
1.55-09	7.41-10	2.65-10	3.08-11	6.65-14	8.99-18	4.97-27	9.23-11	4.23-11
5.82-10	5.24-10	1.68-10	4.27-11	2.86-12	5.64-18	4.87-21	1.06-10	4.67-11
1.43-09	2.34-10	2.64-10	1.50-10	8.52-12	7.12-17	4.19-24	1.95-10	7.35-11
1.59-09	7.57-10	2.03-10	3.83-11	4.35-13	2.02-16	7.56-26	1.63-10	5.76-11
3.88-10	3.57-10	1.25-10	4.09-11	3.05-14	5.86-19	1.75-32	7.91-11	2.90-11
2.70-09	1.84-09	1.28-09	1.47-10	3.89-12	2.57-16	1.59-21		
1.16-09	8.01-10	7.34-10	6.34-11	1.64-12	1.54-16	1.59-21	3.25-10	8.00-11
							1.72-07	2.69-08

AIR SCATTERING 8.31 02 ENERGY 1.00 ANGLE 6.00 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	1.23-06	2,85-07	0.	0.	0.	0.
4.00 01	0.	0.	0.	6,20-07	0.	0.	0.	0.
6.00 01	0.	0.	0.	0,	3.44-07	0.	0.	0.
8.00 01	0.	0.	0.	0,	2.94-07	0.	0.	0.
9.00 01	0.	0.	0.	0,	2.51-07	0.	0.	0.
1.00 02	0.	0.	0.	0,	1.67-07	1.31-07	0.	0.
1.20 02	0.	0.	0.	0,	0.	3,82-07	0.	0.
1.40 02	0.	0.	0.	0,	0.	0.	0.	0.
1.60 02	0.	0.	0.	0,	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	7.40-08	1.25-07	2.60-07	1.48-07	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	7.81-07	1.81-07	0.	0.	5.06-10	2.97-10
4.00 01	0.	0.	0.	3.95-07	0.	0,	1.69-09	4.13-10
6.00 01	0.	0.	0.	0,	2,19-07	1.39-11	2.63-09	3.59-09
8.00 01	0.	0.	0.	0.	1.87-07	2.90-10	8.91-10	1.13-09
9.00 01	0.	0.	0.	0.	1.60-07	2.37-09	1.66-09	6.68-10
1.00 02	0.	0.	0,	0.	1.06-07	1.07-07	1.47-09	4.30-10
1.20 02	0.	0,	0.	0,	3.34-11	2.99-07	1.73-09	2.11-09
1.40 02	0.	0,	0.	0.	5.12-11	1.49-08	1.55-09	1.35-09
1.60 02	0,	0.	0.	0.	1.46-11	2.08-09	4.42-10	1.18-09
1.80 02	0.	0.	0.	0.	9.69-15	3.47-10	2.12-09	1.07-09
	0.	0.	4.71-08	7.95-08	1.66-07	1.21-07	3.04-09	2.92-09
	0.	0.	1.92-08	2.81-08	3.01-08	1.56-08	7.26-10	8.79-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0,	0.	0.	1.80-09	3.07-10
4.00 01	0.	0.	0.	0.	0.	1,56-17	2.22-09	2,45-10
6.00 01	0.	0.	0.	0,	0.	5,56-13	1.46-09	8.17-11
8.00 01	0.	0.	0.	0.	0.	1,12-13	9.66-10	5.34-10
9.00 01	0.	0.	0.	0.	0.	5,10-11	5.69-10	4.86-10
1.00 02	0.	0.	0.	0.	0.	3.13-09	1.73-09	6.88-09
1.20 02	0.	0.	0.	0.	0.	4,83-09	1.99-09	1,02-09
1.40 02	0.	0.	0.	0.	0.	4.13-09	1.09-09	3.46-10
1.60 02	0.	0.	0.	0.	0.	1.70-09	9.98-10	6.32-10
1.80 02	0.	0.	0.	0.	0.	6.72-11	1.22-09	8.29-10
	0.	0.	0.	0.	0.	3.53-09	2,78-09	2,12-09
	0.	0.	0.	0.	0.	1.80-09	5.23-10	1.08-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.63-10	6.44-10
4.00 01	0.	0.	0.	0,	0.	0.	2,06-09	8,73-10
6.00 01	0.	0.	0.	0.	0.	0.	9.95-10	4.53-10
8.00 01	0.	0.	0.	0.	0.	0.	8.65-10	9,91-10
9.00 01	0.	0.	0.	0.	0.	2,93-10	2.26-09	3.80-10
1.00 02	0.	0.	0.	0,	0.	1,03-13	2,50-09	1.37-10
1.20 02	0.	0.	0.	0.	0.	2.25-12	1,85-09	1.59-09
1.40 02	0.	0.	0.	0.	6.16-12	5.07-12	1.25-09	7.94-10
1.60 02	0.	0.	0.	0.	0.	1.05-11	4,42-10	4.29-10
1.80 02	0.	0.	0.	0.	1.97-11	3.93-09	3.39-09	5.21-10
	0.	0.	0.	0.	2.83-12	2,92-10	2.96-09	1,56-09
	0.	0.	0.	0.	2.02-12	2.39-10	6.82-10	3.07-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	6,73-14	3.86-10
4.00 01	0.	0.	0.	0.	0.	0.	3,37-12	1,71-09
6.00 01	0,	0.	0.	0,	0.	0.	9,41-11	5.60-10
8.00 01	0,	0.	0.	0.	0.	0.	7,25-12	9.74-10
9.00 01	0.	0.	0.	0.	0.	0.	1,06-10	6,56-10
1.00 02	0.	0.	0.	0.	0.	0,	1,42-11	5.68-10
1.20 02	0,	0.	0.	0.	0.	0.	4.81-10	6,25-10
1.40 02	0.	0.	0.	0.	0.	8.12-13	6,47-10	1,79-10
1.60 02	0,	0,	0,	0,	0,	0.	7.07-10	2.05-10
1.80 02	0.	0.	0.	0.	0.	1.04-11	7.16-09	4.26-10
	0.	0.	0.	0.	0.	8,46-13	9.32-10	1.31-09
	0.	0.	0.	0.	0.	4.97-13	4.36-10	2.98-10

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AIR SCATTERING 6.31 02 ENERGY 1.00 ANGLE 6.00 01 DIST. 1.52 02
6.20 01 1.73 03 0. 0. 5.53 04 5.00 01 1.80 03

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	2.12-07
0.	0.	0.	0.	0.	0.	0.	6.20-08
0.	0.	0.	0.	0.	0.	0.	3.09-08
0.	0.	0.	0.	0.	0.	0.	2.65-08
0.	0.	0.	0.	0.	0.	0.	2.26-08
0.	0.	0.	0.	0.	0.	0.	2.16-08
0.	0.	0.	0.	0.	0.	0.	1.91-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							5.44-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
4.70-10	3.59-10	3.82-10	1.61-08	1.56-12	7.15-21	1.08-28	1.35-07	5.11-08
4.24-10	4.78-10	1.48-10	2.94-11	3.73-13	1.94-17	4.77-26	3.96-08	1.49-08
2.31-09	3.14-10	5.97-10	5.24-11	2.73-12	1.00-16	1.06-27	2.00-08	7.46-09
6.42-10	8.77-10	8.40-10	4.70-10	2.13-12	3.81-15	8.12-24	1.70-08	4.94-09
1.20-09	1.66-09	1.43-09	5.25-09	1.76-13	2.29-16	3.99-24	1.47-08	4.58-09
6.30-10	5.28-10	2.30-10	1.11-10	4.63-12	8.02-16	6.37-23	1.50-08	3.43-09
9.48-10	8.83-10	9.13-10	1.16-10	2.08-12	4.91-15	2.30-23	1.51-08	2.15-09
1.60-09	2.12-09	3.10-10	1.89-10	5.00-13	7.21-17	1.57-23	9.37-10	2.47-10
2.16-09	3.08-10	2.49-09	1.12-10	7.56-13	7.60-17	1.89-27	2.53-10	5.31-11
1.63-09	1.08-09	1.67-09	1.37-11	1.12-13	6.23-18	3.94-25	2.15-10	6.68-11
2.45-09	1.82-09	1.68-09	2.18-09	3.37-12	3.09-15	2.61-23		
5.68-10	3.70-10	5.04-10	1.32-09	1.59-12	1.85-15	1.45-23	3.63-08	4.97-09

PHI 45 TO 90 DEGREES

5.34-10	3.04-10	1.70-10	6.11-13	1.03-15	2.04-18	1.21-24	1.02-10	5.47-11
1.75-10	1.90-10	3.25-10	1.81-09	1.04-13	1.15-16	2.99-22	1.17-10	6.55-11
2.85-10	2.99-10	2.49-10	4.86-11	1.18-13	2.40-16	1.11-25	7.61-11	3.27-11
3.48-09	8.42-10	3.52-10	1.89-10	9.99-13	1.40-16	2.14-25	1.59-10	7.69-11
1.08-09	8.57-10	2.89-10	3.84-11	1.03-11	3.85-17	9.00-26	8.56-11	2.25-11
5.25-10	2.50-10	4.20-10	3.21-11	7.08-12	6.18-16	3.01-30	4.82-10	2.62-10
4.67-10	3.18-10	1.66-09	3.61-11	5.03-12	6.04-16	8.04-22	3.93-10	2.39-10
1.18-09	1.09-09	1.24-09	4.14-11	3.56-13	7.23-17	2.54-25	3.23-10	1.43-10
6.43-10	4.57-10	4.16-10	9.45-11	4.22-13	1.96-16	4.37-26	1.75-10	6.02-11
2.60-10	1.60-10	1.30-09	1.87-10	9.75-14	4.17-16	5.18-27	1.06-10	3.79-11
2.15-09	1.02-09	1.39-09	3.13-10	5.21-12	5.19-16	3.15-22		
9.91-10	2.15-10	5.57-10	1.79-10	1.79-12	1.85-16	2.67-22	4.48-10	1.03-10

PHI 90 TO 135 DEGREES

5.89-11	2.70-10	3.41-11	2.08-12	1.41-14	3.99-19	4.12-34	3.44-11	1.51-11
2.14-10	6.64-10	9.21-11	5.51-12	3.57-14	2.50-16	2.34-27	1.28-10	7.43-11
3.96-10	2.74-10	1.34-10	8.70-11	2.39-13	1.45-16	1.99-28	7.16-11	3.05-11
1.80-10	5.98-10	4.85-10	3.49-10	4.15-13	3.33-17	1.41-25	9.07-11	2.33-11
5.39-10	3.71-10	5.75-11	8.95-11	4.19-13	1.49-15	4.31-24	1.39-10	5.39-11
1.97-10	1.09-10	9.18-10	1.29-10	5.83-13	1.06-15	6.76-29	1.23-10	5.54-11
2.48-10	5.22-10	1.67-10	4.59-10	2.12-12	3.52-16	2.27-25	1.48-10	4.02-11
7.57-10	2.05-10	1.70-10	3.07-11	8.68-13	9.66-17	1.43-25	1.02-10	4.08-11
6.18-10	2.39-10	3.61-10	1.27-10	1.34-12	4.93-16	2.94-26	5.73-11	1.26-11
1.31-09	3.34-10	6.11-11	7.82-11	2.72-13	2.62-17	1.46-27	3.91-10	2.22-10
8.01-10	7.69-10	5.47-10	3.61-10	1.55-12	7.63-16	9.12-25		
1.55-10	1.58-10	1.78-10	1.60-10	6.42-13	3.98-16	7.48-25	2.27-10	3.36-11

PHI 135 TO 180 DEGREES

1.34-10	3.70-11	5.37-12	3.72-11	1.70-15	1.28-17	1.73-24	1.74-11	1.11-11
3.24-10	9.18-10	1.40-10	1.31-11	5.09-13	2.22-18	1.86-21	8.20-11	2.95-11
2.05-10	1.26-10	7.40-11	1.44-11	6.23-14	2.87-16	3.85-24	3.08-11	8.77-12
1.89-10	1.77-10	2.86-10	1.70-11	2.57-13	6.08-16	1.26-22	4.44-11	1.78-11
9.85-11	1.20-10	8.27-10	4.89-12	1.46-12	2.76-18	3.65-26	4.08-11	1.44-11
5.48-11	6.42-11	2.00-10	1.09-11	1.34-12	5.55-16	3.66-25	2.47-11	7.96-12
4.32-10	1.26-09	1.65-10	5.88-11	2.33-12	4.79-17	8.64-29	7.28-11	2.46-11
8.67-11	3.79-10	2.14-10	4.29-11	1.30-12	1.25-16	8.48-25	4.23-11	1.42-11
1.98-10	4.73-10	4.01-10	4.15-11	1.98-12	6.05-15	1.38-23	5.25-11	1.36-11
8.70-10	1.33-10	2.37-11	1.52-11	2.51-11	1.24-16	9.53-31	3.16-10	2.67-10
4.28-10	8.89-10	4.98-10	5.54-11	3.64-12	1.48-15	3.68-22		
8.03-11	2.89-10	1.49-10	1.59-11	1.95-12	9.92-16	3.64-22	1.13-10	2.12-11
							5.83-08	7.84-09

AIR SCATTERING 6.32 02 ENERGY 1.00 ANGLE 9.00 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	0.	7.15-07	5.30-07	0.	0.	0.
4.00 01	0.	0.	0.	0.	5.07-07	0.	0.	0.
6.00 01	0.	0.	0.	0.	2.87-07	0.	0.	0.
8.00 01	0.	0.	0.	0.	8.35-08	2.47-07	0.	0.
9.00 01	0.	0.	0.	0.	0.	2.39-07	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	4.31-08	2.23-07	1.22-07	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	0.	4.55-07	3.38-07	3.62-13	1.86-07	5.76-11
4.00 01	0.	0.	0.	0.	3.23-07	3.40-11	9.81-09	2.39-09
6.00 01	0.	0.	0.	0.	1.83-07	1.18-08	1.21-09	2.02-09
8.00 01	0.	0.	0.	0.	5.32-08	1.81-07	8.46-10	3.98-09
9.00 01	0.	0.	0.	0.	7.53-11	1.73-07	7.67-10	1.70-08
1.00 02	0.	0.	0.	0.	1.34-11	1.45-08	1.25-09	1.54-09
1.20 02	0.	0.	0.	0.	8.42-12	1.64-08	1.08-09	6.76-10
1.40 02	0.	0.	0.	0.	0.	1.17-09	3.33-10	1.30-09
1.60 02	0.	0.	0.	0.	2.53-11	3.33-09	1.94-09	6.51-10
1.80 02	0.	0.	0.	0.	0.	1.85-11	2.37-09	6.62-10
	0.	0.	0.	2.75-08	1.42-07	1.01-07	1.48-08	6.19-09
	0.	0.	0.	1.37-08	2.39-08	9.21-09	1.12-08	3.01-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.15-09	1.36-10
4.00 01	0.	0.	0.	0.	0.	0.	1.42-09	3.03-10
6.00 01	0.	0.	0.	0.	0.	3.73-12	5.77-09	1.75-09
8.00 01	0.	0.	0.	0.	0.	3.82-10	1.54-09	1.70-09
9.00 01	0.	0.	0.	0.	0.	2.93-09	1.02-09	5.16-10
1.00 02	0.	0.	0.	0.	0.	4.57-11	3.94-10	8.48-10
1.20 02	0.	0.	0.	0.	0.	1.96-10	5.57-09	3.75-10
1.40 02	0.	0.	0.	0.	1.20-11	3.55-10	2.40-09	5.42-10
1.60 02	0.	0.	0.	0.	0.	3.44-12	6.77-10	4.60-10
1.80 02	0.	0.	0.	0.	0.	0.	4.57-09	1.41-11
	0.	0.	0.	0.	3.20-12	8.01-10	5.45-09	1.66-09
	0.	0.	0.	0.	3.20-12	3.62-10	1.40-09	5.36-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	3.14-10	1.49-10
4.00 01	0.	0.	0.	0.	0.	9.63-12	1.33-08	3.93-10
6.00 01	0.	0.	0.	0.	0.	0.	3.23-09	6.07-10
8.00 01	0.	0.	0.	0.	0.	0.	4.95-09	8.68-10
9.00 01	0.	0.	0.	0.	0.	0.	6.84-10	1.37-10
1.00 02	0.	0.	0.	0.	0.	0.	8.95-10	2.81-09
1.20 02	0.	0.	0.	0.	9.19-12	0.	2.56-09	9.02-10
1.40 02	0.	0.	0.	0.	0.	2.37-10	2.80-09	1.47-09
1.60 02	0.	0.	0.	0.	4.92-13	0.	2.95-10	3.13-10
1.80 02	0.	0.	0.	0.	0.	4.12-12	5.55-11	8.00-11
	0.	0.	0.	0.	3.08-12	6.50-11	6.71-09	1.78-09
	0.	0.	0.	0.	3.00-12	5.18-11	2.63-09	5.12-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.18-09	5.50-09
4.00 01	0.	0.	0.	0.	0.	0.	1.26-09	1.16-10
6.00 01	0.	0.	0.	0.	0.	0.	5.31-11	2.96-10
8.00 01	0.	0.	0.	0.	0.	0.	4.27-11	7.98-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.24-10
1.00 02	0.	0.	0.	0.	0.	0.	5.36-12	1.85-10
1.20 02	0.	0.	0.	0.	0.	1.65-11	1.09-11	3.77-10
1.40 02	0.	0.	0.	0.	0.	8.69-10	1.59-11	4.21-10
1.60 02	0.	0.	0.	0.	0.	8.41-11	1.18-09	1.49-09
1.80 02	0.	0.	0.	0.	0.	0.	7.88-11	7.98-09
	0.	0.	0.	0.	0.	2.51-10	5.36-10	1.74-09
	0.	0.	0.	0.	0.	1.69-10	2.29-10	6.58-10

155131476035 11751451355 1

AIR SCATTERING 6.32 02 ENERGY 1.00 ANGLE 9.00 01 DIST. 1.52 02
5.10 01 1.74 03 0. 0. 5.55 04 5.00 01 1.80 03

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	1.19-07
0.	0.	0.	0.	0.	0.	0.	4.56-08
0.	0.	0.	0.	0.	0.	0.	2.58-08
0.	0.	0.	0.	0.	0.	0.	1.99-08
0.	0.	0.	0.	0.	0.	0.	1.19-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							3.05-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
3.86-09	3.62-10	3.87-11	4.18-12	2.09-13	7.75-16	4.40-30	8.35-08	2.96-08
2.10-09	7.37-10	7.48-10	6.92-11	4.38-13	1.15-16	2.08-26	2.96-08	8.82-09
8.52-10	7.51-10	2.83-10	3.44-11	1.47-12	1.18-15	1.25-21	1.72-08	3.88-09
1.23-09	4.55-10	1.31-09	2.62-10	2.37-12	1.60-16	6.90-25	1.40-08	1.89-09
1.07-09	4.42-10	2.46-10	2.52-10	4.36-12	4.40-17	1.97-29	9.30-09	8.08-10
1.40-09	4.51-10	6.94-10	3.82-10	2.19-13	3.10-17	7.35-25	8.85-10	3.06-10
9.22-10	8.84-10	8.24-10	2.25-10	2.82-12	5.40-17	4.19-26	9.33-10	4.48-10
9.97-10	6.04-10	3.17-09	9.33-11	1.53-13	2.54-15	2.94-26	1.89-10	7.20-11
6.68-10	2.13-10	1.11-09	1.72-11	8.61-14	2.30-16	6.11-24	3.02-10	1.35-10
5.57-10	1.32-10	5.97-11	1.46-11	9.73-11	1.26-17	4.12-31	1.35-10	7.93-11
2.37-09	1.15-09	2.10-09	3.19-10	8.89-12	1.18-15	3.35-22		
4.32-10	2.02-10	9.73-10	9.48-11	6.58-12	7.61-16	3.32-22	2.15-08	2.74-09

PHI 45 TO 90 DEGREES

6.92-11	5.47-10	3.70-11	1.59-11	4.76-13	1.09-16	4.60-28	6.18-11	3.49-11
3.95-10	1.28-09	1.51-09	5.87-09	3.56-14	5.30-15	9.75-27	1.65-10	5.67-11
9.06-10	1.51-09	1.33-09	1.50-10	1.40-13	2.67-15	6.83-24	3.53-10	1.51-10
4.98-10	2.54-09	1.09-09	3.02-11	2.46-13	2.82-15	1.59-27	2.02-10	6.27-11
5.61-10	7.31-10	2.47-10	3.67-11	5.97-12	1.23-15	1.20-23	2.33-10	1.03-10
1.06-09	8.88-10	1.46-10	1.06-10	3.11-11	2.91-14	8.95-25	8.96-11	2.35-11
8.27-10	1.76-10	3.36-10	5.34-11	2.15-12	7.77-14	1.29-27	2.73-10	1.16-10
1.98-10	4.24-10	7.37-10	6.13-11	1.81-11	2.76-16	4.28-25	1.54-10	4.15-11
1.72-10	4.05-10	1.06-10	4.38-11	2.90-13	5.41-16	1.05-25	5.49-11	1.58-11
2.98-11	9.61-11	5.65-11	4.85-11	6.10-14	5.21-19	1.19-27	1.87-10	1.45-10
1.11-09	2.01-09	1.37-09	1.10-09	1.21-11	3.34-14	4.20-24		
2.07-10	7.81-10	3.85-10	9.01-10	6.99-12	3.04-14	2.89-24	3.99-10	6.59-11

PHI 90 TO 135 DEGREES

7.05-11	2.66-11	4.22-11	6.81-10	5.65-12	1.86-16	1.15-26	2.64-11	1.36-11
2.64-10	9.61-11	1.37-10	6.26-11	9.03-14	6.72-16	6.60-25	5.55-10	5.09-10
2.75-10	3.08-10	1.35-09	1.49-10	3.70-12	5.62-17	2.07-26	1.79-10	9.68-11
2.83-10	3.64-10	8.83-11	4.64-10	6.97-13	4.59-17	9.09-25	2.45-10	1.42-10
2.66-10	1.41-10	4.98-11	9.92-11	1.12-12	4.27-15	1.03-30	4.23-11	2.43-11
6.43-10	2.13-09	5.70-11	1.45-11	3.90-12	9.24-19	3.92-30	1.80-10	7.56-11
1.81-10	4.59-10	4.14-10	2.28-10	3.77-13	1.10-15	1.37-25	1.52-10	5.18-11
8.10-10	3.31-10	1.27-10	2.75-10	8.35-13	6.24-15	4.77-27	2.03-10	7.21-11
4.57-11	5.94-10	2.65-10	4.44-10	1.61-12	1.99-17	2.99-25	3.98-11	9.50-12
5.47-11	2.64-11	8.51-11	1.82-10	4.05-11	3.14-20	1.97-26	9.81-12	3.52-12
6.59-10	9.56-10	6.53-10	4.99-10	5.51-12	2.92-15	5.17-25		
2.74-10	3.45-10	3.61-10	1.67-10	2.75-12	1.79-15	3.19-25	3.75-10	1.07-10

PHI 135 TO 180 DEGREES

2.33-10	2.47-10	1.84-10	1.76-11	1.16-13	1.01-15	8.78-28	2.46-10	1.89-10
8.58-11	1.21-10	2.59-10	8.83-11	3.77-12	5.40-14	3.91-24	6.21-11	4.10-11
4.43-10	3.08-10	3.12-10	9.33-11	2.76-13	5.49-15	3.41-23	3.25-11	1.03-11
1.22-09	2.00-10	6.10-11	3.87-11	3.30-12	8.65-16	7.17-25	6.33-11	3.40-11
2.73-10	1.29-09	6.26-10	4.15-11	2.94-12	7.15-18	4.07-27	4.17-11	1.81-11
2.94-10	1.83-10	1.24-10	2.13-10	3.08-13	2.75-18	4.67-31	2.00-11	6.32-12
5.89-10	1.15-10	1.19-10	4.68-11	1.27-11	7.69-18	2.38-28	3.25-11	1.19-11
6.87-10	2.86-10	2.17-10	5.01-11	4.66-12	9.26-16	5.30-24	8.30-11	3.60-11
5.94-10	5.17-10	2.50-10	1.87-11	3.25-12	3.91-15	7.67-31	1.28-10	6.83-11
1.70-10	6.96-11	1.64-11	1.27-10	7.24-12	2.78-14	3.23-30	2.81-10	2.65-10
1.13-09	6.46-10	4.30-10	1.33-10	8.75-12	1.38-14	1.14-23		
4.03-10	2.15-10	1.23-10	5.10-11	4.12-12	9.69-15	9.13-24	1.37-10	3.03-11
							3.52-08	4.34-09

AIR SCATTERING 6.33 02 ENERGY 1.00 ANGLE 1.35 02 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	0.	0.	1.76-06	0.	0.	0.
4.00 01	0.	0.	0.	0.	7.65-08	9.30-07	0.	0.
6.00 01	0.	0.	0.	0.	0.	9.39-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	1.19-07	1.86-07	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	0.	0.	1.12-06	3.27-08	2.97-10	1.37-09
4.00 01	0.	0.	0.	0.	4.87-08	6.19-07	9.62-10	1.63-09
6.00 01	0.	0.	0.	0.	1.05-11	8.55-08	1.42-09	1.89-09
8.00 01	0.	0.	0.	0.	1.73-12	4.80-09	1.21-09	2.98-09
9.00 01	0.	0.	0.	0.	0.	5.49-09	1.94-09	7.19-10
1.00 02	0.	0.	0.	0.	0.	3.04-10	5.14-09	5.45-10
1.20 02	0.	0.	0.	0.	0.	7.81-11	6.65-10	5.26-10
1.40 02	0.	0.	0.	0.	0.	9.08-13	4.62-10	1.64-10
1.60 02	0.	0.	0.	0.	0.	0.	4.83-10	3.52-10
1.80 02	0.	0.	0.	0.	0.	0.	1.97-11	1.71-10
	0.	0.	0.	0.	7.60-08	1.35-07	2.61-09	2.35-09
	0.	0.	0.	0.	1.75-08	1.35-08	6.22-10	6.92-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	2.68-08	5.26-10	7.44-09
4.00 01	0.	0.	0.	0.	0.	2.01-09	1.46-09	1.17-09
6.00 01	0.	0.	0.	0.	0.	4.63-09	1.13-09	2.68-10
8.00 01	0.	0.	0.	0.	0.	4.31-10	3.10-09	1.40-09
9.00 01	0.	0.	0.	0.	0.	2.44-10	1.15-09	6.91-10
1.00 02	0.	0.	0.	0.	0.	3.95-12	5.22-10	6.70-09
1.20 02	0.	0.	0.	0.	0.	0.	9.46-10	3.47-10
1.40 02	0.	0.	0.	0.	0.	0.	2.28-10	7.89-10
1.60 02	0.	0.	0.	0.	0.	0.	3.60-10	6.44-10
1.80 02	0.	0.	0.	0.	0.	0.	7.00-11	4.95-10
	0.	0.	0.	0.	0.	3.38-09	2.32-09	2.93-09
	0.	0.	0.	0.	0.	1.40-09	6.25-10	1.22-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.21-09	5.19-10	2.73-10
4.00 01	0.	0.	0.	0.	0.	5.37-10	4.98-09	1.87-10
6.00 01	0.	0.	0.	0.	0.	1.38-10	4.88-09	3.59-10
8.00 01	0.	0.	0.	0.	0.	7.39-11	5.02-09	3.45-10
9.00 01	0.	0.	0.	0.	0.	2.00-12	1.30-10	6.92-10
1.00 02	0.	0.	0.	0.	0.	0.	1.28-09	1.25-09
1.20 02	0.	0.	0.	0.	0.	0.	6.47-11	5.90-10
1.40 02	0.	0.	0.	0.	0.	0.	6.46-11	7.83-10
1.60 02	0.	0.	0.	0.	0.	0.	2.14-08	6.89-10
1.80 02	0.	0.	0.	0.	0.	0.	7.83-11	4.70-10
	0.	0.	0.	0.	0.	2.27-10	7.84-09	1.14-09
	0.	0.	0.	0.	0.	1.13-10	4.05-09	2.40-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	2.04-11	2.53-09	2.17-10
4.00 01	0.	0.	0.	0.	0.	1.11-12	1.25-09	2.49-10
6.00 01	0.	0.	0.	0.	0.	0.	4.58-10	2.56-10
8.00 01	0.	0.	0.	0.	0.	0.	2.00-10	2.42-10
9.00 01	0.	0.	0.	0.	0.	2.04-12	2.25-09	4.70-10
1.00 02	0.	0.	0.	0.	0.	0.	2.50-10	3.83-10
1.20 02	0.	0.	0.	0.	0.	0.	2.16-10	1.89-09
1.40 02	0.	0.	0.	0.	0.	0.	2.79-11	6.23-10
1.60 02	0.	0.	0.	0.	0.	0.	3.11-11	3.33-10
1.80 02	0.	0.	0.	0.	0.	1.13-13	2.51-14	1.81-09
	0.	0.	0.	0.	0.	1.79-12	1.08-09	1.30-09
	0.	0.	0.	0.	0.	1.37-12	3.56-10	3.92-10

$336122_{10}7345$ 033526341511

AIR SCATTERING 6.33 02 ENERGY 1.00 ANGLE 1.35 02 DIST. 1.52 02
6.00 01 1.72 03 0. 0. 5.62 04 5.00 01 1.80 03

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
0.	0.	0.	0.	0.	0.	0.	1.58-07	
0.	0.	0.	0.	0.	0.	0.	5.34-08	
0.	0.	0.	0.	0.	0.	0.	4.70-09	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							2.01-08	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
9.03-10	3.91-09	1.67-10	2.08-11	5.82-13	2.74-17	8.20-31	1.03-07	2.54-08
7.37-10	3.75-10	3.83-10	6.62-11	1.81-12	2.74-13	1.90-28	3.54-08	4.18-09
9.78-10	6.11-10	1.61-09	1.12-10	3.28-12	5.76-15	9.53-24	4.45-09	4.18-10
7.57-10	7.61-10	7.81-10	7.55-10	1.17-11	3.43-15	6.92-24	4.36-10	1.08-10
1.54-09	4.43-10	1.75-10	1.33-10	5.76-12	2.98-16	2.58-24	4.25-10	2.28-10
1.26-09	3.39-10	1.71-10	5.68-11	5.16-13	3.68-15	4.36-20	2.79-10	1.29-10
2.73-10	5.12-10	3.14-10	4.08-11	9.10-13	3.57-16	2.12-28	6.70-11	1.10-11
2.46-10	3.50-10	7.35-10	9.78-11	1.11-11	1.58-16	3.30-23	4.53-11	1.09-11
5.71-10	3.76-10	1.51-10	2.29-11	8.27-13	9.61-17	4.81-24	5.32-11	1.58-11
2.12-09	1.43-10	1.36-09	3.60-12	1.97-11	6.77-17	5.85-28	7.82-11	3.55-11
1.56-09	1.18-09	1.23-09	3.65-10	1.07-11	5.10-14	7.59-21		
2.60-10	2.49-10	3.21-10	2.19-10	4.67-12	4.68-14	7.55-21	1.38-08	1.70-09

PHI 45 TO 90 DEGREES

7.27-10	2.82-10	7.95-11	1.53-10	5.21-11	3.37-17	1.34-29	1.64-09	7.99-10
1.38-09	1.51-10	5.06-10	9.25-11	4.86-12	4.33-15	7.70-26	2.42-10	8.07-11
2.07-09	1.22-10	3.42-10	8.96-11	3.12-12	7.72-16	2.20-25	3.44-10	1.95-10
1.62-09	1.44-09	5.77-10	4.82-11	6.23-13	2.61-16	1.12-26	2.62-10	8.28-11
9.29-10	2.50-10	1.62-10	2.13-11	5.59-13	2.18-17	9.40-25	1.11-10	2.92-11
2.43-10	1.70-10	2.53-10	6.31-11	5.91-12	7.22-18	1.86-25	2.61-10	2.19-10
2.65-10	2.67-10	1.65-10	2.62-11	1.40-12	1.05-16	4.11-29	6.25-11	2.16-11
4.73-10	1.45-10	9.96-11	9.24-11	2.26-12	8.02-15	1.66-25	5.19-11	2.25-11
1.60-09	4.23-10	1.13-09	7.51-11	5.99-13	1.51-17	7.43-27	9.69-11	3.86-11
4.20-09	4.29-09	2.16-09	7.36-11	7.73-14	3.33-18	7.51-25	2.16-10	1.13-10
2.31-09	1.08-09	8.51-10	1.30-10	7.31-12	3.35-15	3.62-25		
7.74-10	4.51-10	2.41-10	3.41-11	3.28-12	1.43-15	1.96-25	4.47-10	9.00-11

PHI 90 TO 135 DEGREES

2.35-10	1.67-10	9.83-11	6.37-11	1.63-13	4.88-16	4.53-26	1.01-10	4.33-11
1.20-09	3.56-10	1.28-09	1.65-09	9.97-12	6.04-17	1.72-29	2.98-10	1.42-10
6.17-10	3.90-10	1.25-09	4.01-11	9.19-12	9.51-17	5.67-22	2.51-10	9.06-11
9.81-10	9.07-10	1.80-10	8.21-11	1.44-12	2.94-17	4.77-26	2.57-10	1.80-10
1.12-10	6.45-10	7.30-10	8.90-11	2.13-12	7.22-17	9.90-24	5.09-11	1.71-11
2.01-10	2.08-10	9.56-11	7.66-12	1.00-13	5.95-17	1.77-26	1.04-10	4.36-11
8.73-10	3.20-10	1.15-10	3.35-10	4.95-10	2.69-18	3.25-27	5.66-11	1.86-11
2.91-10	1.75-10	2.45-10	1.79-11	9.29-11	6.18-14	3.50-21	4.28-11	1.29-11
1.17-10	8.01-10	4.37-10	3.78-11	2.91-13	1.80-12	7.83-21	9.00-10	8.47-10
1.86-10	2.95-11	6.57-11	1.23-11	2.52-14	4.58-18	3.26-27	2.51-11	8.53-12
1.17-09	9.12-10	9.46-10	4.06-10	1.91-10	3.29-13	2.44-21		
2.88-10	2.23-10	3.20-10	3.83-10	1.86-10	3.28-13	1.65-21	4.23-10	1.63-10

PHI 135 TO 180 DEGREES

2.36-10	1.13-09	1.54-09	2.77-11	4.89-12	3.81-16	9.32-28	1.51-10	8.85-11
5.89-10	1.02-08	3.58-10	7.89-11	7.33-13	2.65-16	1.41-21	2.32-10	1.42-10
2.49-10	5.27-10	2.48-10	1.62-09	3.29-13	2.41-16	8.93-23	5.87-11	1.65-11
1.85-10	8.08-10	1.55-10	1.93-10	8.72-13	5.71-17	5.23-26	3.66-11	1.09-11
1.56-09	9.42-10	7.80-10	4.36-10	6.86-13	7.58-17	1.72-23	1.73-10	8.03-11
4.31-09	4.39-11	1.29-10	3.59-11	3.91-10	1.04-15	6.32-23	1.36-10	9.34-11
3.91-09	2.30-09	1.46-10	1.07-10	1.34-12	1.19-14	1.43-22	2.08-10	9.34-11
2.51-10	1.20-10	1.69-08	2.93-11	2.06-11	3.16-15	2.47-24	2.33-10	1.65-10
2.21-10	6.05-10	4.58-10	1.39-10	3.02-11	2.44-14	6.71-22	3.38-11	9.29-12
9.65-10	4.55-11	8.33-10	1.28-10	3.30-16	1.72-17	7.45-24	9.73-11	5.59-11
2.70-09	3.31-09	5.10-09	6.59-10	7.99-11	9.32-15	4.48-22		
1.34-09	1.72-09	3.64-09	4.71-10	6.82-11	5.74-15	2.89-22	2.72-10	6.87-11
							2.35-08	2.76-09

AIR SCATTERING 6.34 02 ENERGY 1.00 ANGLE 1.80 02 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	0.	0.	0.	5.88-06	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	3.55-07	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	1.00	7.40-01	5.50-01	4.00-01	3.00-01	2.10-01	1.60-01	1.20-01
2.00 01	0.	0.	0.	0.	9.76-12	3.78-06	1.64-10	1.56-09
4.00 01	0.	0.	0.	0.	6.42-14	1.49-08	2.30-08	6.70-10
6.00 01	0.	0.	0.	0.	0.	4.22-10	2.46-09	7.52-10
8.00 01	0.	0.	0.	0.	0.	3.05-11	1.20-09	1.39-10
9.00 01	0.	0.	0.	0.	0.	0.	1.11-09	3.99-10
1.00 02	0.	0.	0.	0.	0.	0.	1.99-10	5.66-10
1.20 02	0.	0.	0.	0.	0.	0.	1.09-09	2.96-10
1.40 02	0.	0.	0.	0.	0.	0.	2.17-09	2.16-09
1.60 02	0.	0.	0.	0.	0.	0.	1.29-12	6.52-10
1.80 02	0.	0.	0.	0.	0.	0.	3.79-12	3.61-10
	0.	0.	0.	0.	6.00-13	2.31-07	6.21-09	1.43-09
	0.	0.	0.	0.	4.62-13	3.01-08	3.99-09	3.92-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	4.18-11	8.18-08	6.65-10	2.10-09
4.00 01	0.	0.	0.	0.	6.58-12	6.30-09	8.88-10	5.99-10
6.00 01	0.	0.	0.	0.	0.	5.96-10	1.80-09	8.43-10
8.00 01	0.	0.	0.	0.	0.	2.56-10	6.50-10	4.07-10
9.00 01	0.	0.	0.	0.	0.	3.33-14	8.86-10	8.86-10
1.00 02	0.	0.	0.	0.	0.	0.	4.78-09	3.24-10
1.20 02	0.	0.	0.	0.	0.	0.	1.25-09	1.58-09
1.40 02	0.	0.	0.	0.	0.	0.	1.05-11	1.30-09
1.60 02	0.	0.	0.	0.	0.	0.	1.10-10	4.83-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.05-10
	0.	0.	0.	0.	3.66-12	6.27-09	2.30-09	1.75-09
	0.	0.	0.	0.	2.74-12	2.98-09	8.95-10	4.57-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	6.34-13	8.78-08	1.66-09	1.17-09
4.00 01	0.	0.	0.	0.	6.27-13	1.85-08	6.77-10	1.48-09
6.00 01	0.	0.	0.	0.	3.72-11	8.67-09	1.88-09	5.39-10
8.00 01	0.	0.	0.	0.	0.	1.63-10	2.52-09	5.21-10
9.00 01	0.	0.	0.	0.	0.	3.22-12	9.70-10	1.06-09
1.00 02	0.	0.	0.	0.	0.	0.	2.67-10	2.92-09
1.20 02	0.	0.	0.	0.	0.	0.	8.00-10	4.33-10
1.40 02	0.	0.	0.	0.	0.	0.	3.39-11	5.56-10
1.60 02	0.	0.	0.	0.	0.	0.	7.20-11	1.82-10
1.80 02	0.	0.	0.	0.	0.	0.	5.34-11	4.37-09
	0.	0.	0.	0.	1.01-11	1.09-08	2.04-09	1.92-09
	0.	0.	0.	0.	9.90-12	5.56-09	4.07-10	5.58-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	5.23-11	1.42-08	2.25-09	1.65-09
4.00 01	0.	0.	0.	0.	3.70-13	3.48-09	6.46-10	1.60-09
6.00 01	0.	0.	0.	0.	0.	1.27-09	9.44-10	5.39-09
8.00 01	0.	0.	0.	0.	0.	2.92-11	1.00-09	5.33-10
9.00 01	0.	0.	0.	0.	0.	2.55-11	6.08-10	9.51-11
1.00 02	0.	0.	0.	0.	0.	1.01-10	4.55-10	2.75-10
1.20 02	0.	0.	0.	0.	0.	7.09-11	5.43-10	2.14-09
1.40 02	0.	0.	0.	0.	0.	0.	1.30-10	4.72-09
1.60 02	0.	0.	0.	0.	0.	0.	1.31-10	1.16-09
1.80 02	0.	0.	0.	0.	0.	0.	0.	8.03-11
	0.	0.	0.	0.	3.22-12	1.85-09	1.24-09	4.31-09
	0.	0.	0.	0.	1.82-12	4.02-10	2.08-10	1.81-09

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AIR SCATTERING 6.34 02 ENERGY 1.00 ANGLE 1.80 02 DIST. 1.52 02
5.30 01 1.73 03 0. 0. 5.58 04 5.00 01 1.80 03

FIRST COLLISION

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	2.94-07
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							1.77-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
9.59-10	2.60-10	2.68-10	8.51-11	7.87-13	3.95-16	4.66-27	1.89-07	2.49-08
7.00-10	3.44-09	1.74-10	2.50-11	3.85-13	5.61-18	1.05-25	1.76-09	1.08-09
8.12-10	8.00-10	7.03-10	4.40-11	6.72-13	8.10-17	5.29-26	1.86-10	3.87-11
6.02-09	8.97-10	1.32-08	1.33-10	4.83-13	8.72-16	1.29-22	3.78-10	2.11-10
1.42-09	2.20-09	3.50-10	5.49-11	2.01-13	1.08-16	3.63-28	1.31-10	5.74-11
1.55-09	5.75-09	1.25-10	2.75-11	2.78-13	1.54-15	8.31-26	1.54-10	6.58-11
1.91-10	1.36-09	4.62-10	4.86-10	2.11-13	4.59-14	2.47-23	8.85-11	2.98-11
9.59-10	5.46-10	2.57-10	5.45-11	1.39-13	2.02-17	1.11-29	1.96-10	9.85-11
1.17-10	2.03-10	5.11-11	1.30-09	2.35-11	2.65-17	4.19-25	4.06-11	1.97-11
1.27-10	1.49-10	7.35-11	6.41-10	5.00-13	5.82-17	1.93-31	2.45-11	1.29-11
3.22-09	3.13-09	4.86-09	5.10-10	4.76-12	1.56-14	5.03-23		
1.84-09	1.03-09	4.25-09	2.50-10	2.96-12	1.50-14	4.28-23	1.20-08	1.56-09

PHI 45 TO 90 DEGREES

1.40-09	6.05-10	6.48-11	2.01-10	1.42-13	6.88-18	9.04-31	4.24-09	2.40-09
9.73-10	9.24-09	1.48-09	1.79-11	4.61-13	1.17-15	3.06-25	5.53-10	2.38-10
8.05-10	8.84-10	6.84-11	7.00-11	8.05-13	6.12-15	2.90-31	1.65-10	4.95-11
1.02-09	3.95-10	2.15-10	4.62-10	9.63-13	8.90-17	2.53-21	9.09-11	1.93-11
6.44-10	7.75-10	4.24-10	3.31-10	1.56-13	1.81-16	2.11-21	1.01-10	3.47-11
2.13-10	8.83-11	3.14-10	5.71-11	1.29-12	2.54-14	6.60-23	2.13-10	1.84-10
4.90-10	1.33-09	1.52-10	1.12-10	1.41-12	2.51-16	5.77-29	1.39-10	5.04-11
8.15-11	1.21-10	5.62-11	3.15-11	5.11-14	3.51-16	5.82-22	4.94-11	1.99-11
2.09-09	1.37-10	4.13-10	2.36-12	6.51-11	9.28-16	2.18-27	8.06-11	4.17-11
1.65-10	9.04-11	7.02-11	1.28-11	4.97-13	5.91-21	9.75-25	1.00-11	4.12-12
1.50-09	2.65-09	6.19-10	2.98-10	1.27-11	6.84-15	1.36-21		
3.66-10	1.53-09	2.31-10	1.57-10	1.10-11	3.64-15	1.21-21	5.53-10	1.58-10

PHI 90 TO 135 DEGREES

1.08-09	4.57-10	8.00-10	2.33-11	3.41-13	4.27-17	4.51-25	4.54-09	3.94-09
1.83-09	4.02-10	3.81-10	1.06-10	2.29-12	5.35-19	1.31-26	1.06-09	5.42-10
6.74-10	4.08-10	2.94-10	7.92-11	4.32-13	3.81-18	1.23-27	5.58-10	4.16-10
9.30-10	1.46-09	7.25-10	3.73-11	2.83-12	5.22-16	2.88-26	1.81-10	4.31-11
5.70-10	3.34-10	5.08-10	1.68-11	6.86-12	1.23-15	1.88-21	1.01-10	3.64-11
2.98-10	6.21-10	2.74-10	1.26-10	8.86-12	8.52-19	1.27-26	1.31-10	7.99-11
1.62-10	8.80-11	4.26-10	3.46-10	1.37-12	1.40-15	3.71-25	6.03-11	1.78-11
2.76-09	5.46-10	3.95-10	1.21-09	1.25-12	5.19-17	4.53-28	1.13-10	6.27-11
3.92-10	6.63-11	7.86-10	1.63-10	4.99-13	1.07-17	8.78-26	3.08-11	1.34-11
3.17-11	2.74-11	3.29-11	1.56-12	2.42-16	1.04-22	1.66-22	1.52-10	1.48-10
1.87-09	1.04-09	9.48-10	5.41-10	5.05-12	8.59-16	3.37-22		
6.49-10	2.74-10	2.27-10	3.14-10	2.28-12	5.02-16	3.26-22	7.70-10	2.80-10

PHI 135 TO 180 DEGREES

9.53-10	7.54-10	1.14-10	7.40-11	7.06-13	9.85-18	8.41-29	8.98-10	2.54-10
2.59-09	3.63-10	9.05-10	1.79-10	2.64-12	1.18-16	7.62-27	3.37-10	7.79-11
9.69-10	4.97-09	5.03-10	5.94-11	3.49-12	1.69-17	4.47-23	3.90-10	1.70-10
2.82-10	4.03-10	6.33-10	8.85-11	6.25-13	1.09-15	3.52-26	8.11-11	1.93-11
2.59-10	4.33-10	5.67-10	5.85-10	9.34-12	6.49-18	3.10-23	5.39-11	2.05-11
3.57-10	1.90-10	4.71-10	4.83-11	3.30-12	1.89-15	6.08-26	5.05-11	1.56-11
4.77-10	9.39-11	9.41-11	6.11-11	8.63-12	5.26-17	8.88-21	1.23-10	6.53-11
2.72-10	1.07-10	4.93-11	9.05-12	8.98-11	2.17-17	4.56-29	1.75-10	1.47-10
2.12-10	1.80-10	4.20-11	4.12-12	1.12-12	2.90-17	5.14-24	5.33-11	2.80-11
7.80-11	2.85-13	2.60-11	5.77-12	2.95-16	6.41-16	0.	5.05-12	2.88-12
1.23-09	1.76-09	7.37-10	2.13-10	3.07-11	7.78-16	2.91-21		
3.13-10	9.40-10	2.53-10	1.06-10	2.04-11	3.87-16	2.89-21	3.57-10	6.91-11
							2.15-08	2.64-09

AIR SCATTERING 6.35 02 ENERGY 6.00-01 ANGLE 1.00 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	4.94-04	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	1.97-04	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	1.58-04	0.	0.	0.
1.80 02	0.	0.	0.	0.	2.25-04	0.	0.	0.
	2.98-05	5.23-05	0.	0.	4.10-05	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	3.14-04	0.	0.	0.	0.	0.	1.57-09	2.74-09
4.00 01	0.	0.	0.	0.	0.	0.	3.45-10	2.12-10
6.00 01	0.	1.25-04	0.	0.	0.	7.80-11	4.86-09	2.86-10
8.00 01	0.	0.	0.	0.	0.	3.81-10	1.02-09	4.38-10
9.00 01	0.	0.	0.	0.	0.	7.32-10	9.26-10	1.82-09
1.00 02	0.	0.	0.	0.	0.	1.38-09	4.52-10	2.32-09
1.20 02	0.	0.	0.	0.	4.28-11	3.98-09	1.19-09	1.99-09
1.40 02	0.	0.	0.	0.	1.35-09	2.36-09	1.16-09	5.91-10
1.60 02	0.	0.	0.	0.	1.00-04	9.59-10	8.33-10	1.09-09
1.80 02	0.	0.	0.	1.86-11	1.43-04	2.04-09	1.74-08	2.76-09
	1.90-05	3.33-05	0.	1.12-12	2.61-05	2.73-09	3.91-09	2.30-09
	9.75-06	3.33-05	0.	1.12-12	1.79-05	5.37-10	1.33-09	6.01-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	9.24-10	2.80-12
4.00 01	0.	0.	0.	0.	0.	0.	9.00-10	3.19-09
6.00 01	0.	0.	0.	0.	0.	3.67-11	1.24-09	2.74-09
8.00 01	0.	0.	0.	0.	2.20-12	2.67-09	6.60-10	9.13-10
9.00 01	0.	0.	0.	0.	0.	1.21-09	4.75-10	7.06-10
1.00 02	0.	0.	0.	0.	1.14-12	6.92-10	8.50-10	2.84-10
1.20 02	0.	0.	0.	0.	2.72-09	2.10-09	2.26-09	1.14-09
1.40 02	0.	0.	0.	0.	2.24-09	3.58-09	9.63-10	5.18-10
1.60 02	0.	0.	2.81-12	5.44-12	3.40-08	1.47-09	5.16-10	1.68-09
1.80 02	0.	0.	2.32-11	5.61-13	3.16-08	2.22-09	2.57-09	2.30-09
	0.	0.	1.88-12	9.78-13	9.30-09	3.24-09	2.23-09	2.69-09
	0.	0.	1.48-12	9.04-13	3.81-09	7.13-10	5.29-10	7.58-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.84-11	2.40-09	3.26-10
4.00 01	0.	0.	0.	0.	0.	5.13-12	1.59-09	2.36-10
6.00 01	0.	0.	0.	0.	0.	3.01-11	4.29-09	2.74-10
8.00 01	0.	0.	0.	0.	0.	1.38-10	5.10-09	1.21-09
9.00 01	0.	0.	0.	0.	0.	1.02-09	3.11-10	4.29-10
1.00 02	0.	0.	0.	0.	8.64-11	3.90-10	1.15-09	3.20-10
1.20 02	0.	0.	1.24-14	4.60-12	5.61-10	2.11-09	2.18-09	1.61-09
1.40 02	0.	0.	0.	0.	6.82-09	3.59-09	2.82-10	4.89-10
1.60 02	0.	0.	3.38-14	2.79-10	3.14-09	7.99-10	5.23-10	8.30-10
1.80 02	0.	0.	2.73-10	1.34-10	6.82-08	9.76-10	1.01-09	1.78-09
	0.	0.	1.65-11	5.81-11	6.67-09	2.14-09	4.42-09	1.57-09
	0.	0.	1.61-11	3.95-11	1.85-09	4.73-10	1.24-09	4.21-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.44-09	5.99-10
4.00 01	0.	0.	0.	0.	0.	6.89-15	1.97-09	7.53-11
6.00 01	0.	0.	0.	0.	0.	7.78-12	5.74-09	3.55-10
8.00 01	0.	0.	0.	0.	3.99-12	5.05-10	5.04-09	1.12-09
9.00 01	0.	0.	0.	0.	0.	1.23-09	1.11-09	4.65-10
1.00 02	0.	0.	0.	0.	0.	3.99-09	2.08-09	6.70-10
1.20 02	0.	0.	0.	1.22-11	6.35-11	2.71-09	3.10-09	1.79-09
1.40 02	0.	0.	0.	4.83-10	2.65-09	1.19-07	6.69-10	3.98-09
1.60 02	0.	0.	1.35-13	1.53-10	1.71-09	2.00-09	1.76-09	1.52-09
1.80 02	0.	0.	1.28-10	5.34-11	3.28-08	3.12-09	7.44-10	5.02-10
	0.	0.	7.73-12	1.62-10	3.00-09	3.42-08	5.75-09	2.64-09
	0.	0.	5.91-12	1.25-10	8.04-10	3.02-08	1.93-09	7.20-10

3065226 06245 1217177 20221

AIR SCATTERING 6.35 02 ENERGY 6.00-01 ANGLE 1.00 DIST. 1.52 02
7.10 01 1.71 03 0. 0. 5.70 04 5.00 01 1.80 03

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
0.	0.	0.	0.	0.	0.	0.	7.41-05	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	1.97-05	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	7.88-06	
0.	0.	0.	0.	0.	0.	0.	1.13-05	
0.	0.	0.	0.	0.	0.	0.		
							1.17-05	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
6.56-11	1.35-10	2.61-10	5.31-12	4.32-13	7.50-17	5.51-30	4.72-05	2.43-05
4.17-10	2.60-10	2.87-11	3.33-11	3.27-13	8.48-18	4.44-23	2.61-11	7.17-12
1.72-09	1.10-09	3.29-10	4.78-12	6.81-13	8.39-17	9.42-24	1.25-05	1.25-05
2.79-09	1.33-09	1.01-10	5.93-11	4.16-10	3.58-18	2.05-25	1.23-10	4.45-11
1.80-09	2.82-10	1.16-10	5.39-11	1.33-13	4.36-18	1.52-29	1.27-10	5.37-11
4.61-10	1.19-08	8.26-09	2.21-11	2.46-14	1.59-17	1.38-27	3.12-10	1.77-10
5.86-10	8.89-10	8.22-11	1.07-11	1.60-12	9.98-17	1.38-24	2.19-10	5.45-11
5.13-10	5.12-10	1.61-10	9.07-10	2.34-13	3.50-17	1.54-24	2.08-10	5.32-11
1.11-09	5.10-10	3.35-10	6.58-12	1.42-11	2.24-18	1.59-26	5.02-06	5.02-06
9.12-10	5.02-10	3.12-10	1.45-11	1.09-14	7.54-17	9.24-30	7.17-06	3.50-06
2.41-09	3.44-09	1.74-09	2.87-10	1.39-10	7.98-17	1.12-23		
8.71-10	1.80-09	1.29-09	2.37-10	1.35-10	3.34-17	8.09-24	7.48-06	~~9.99-17~~

PHI 45 TO 90 DEGREES

2.08-10	5.74-10	7.12-10	2.87-09	2.22-13	7.95-17	1.46-24	6.49-11	3.31-11
3.08-10	4.30-10	1.44-10	7.64-11	9.77-12	4.03-19	1.82-30	1.03-10	5.82-11
7.86-10	1.68-09	3.34-09	2.71-10	7.22-14	4.59-18	3.50-28	1.61-10	5.20-11
7.62-10	4.71-10	3.07-10	3.76-11	1.61-12	5.49-17	4.98-23	1.42-10	4.06-11
2.55-09	4.17-09	1.70-09	3.26-11	6.47-14	2.36-15	2.89-26	1.75-10	5.88-11
2.26-10	2.22-10	1.01-10	2.29-11	1.13-13	1.39-16	2.26-27	5.99-11	1.29-11
3.33-10	1.95-09	3.80-10	3.69-11	5.85-13	2.89-17	1.79-27	3.19-10	1.15-10
1.26-09	8.47-10	5.12-10	1.72-10	6.20-14	2.56-18	1.22-24	2.99-10	1.05-10
1.20-09	5.18-10	9.10-11	1.87-11	4.06-13	2.27-18	8.28-24	1.83-09	1.05-09
6.54-10	1.03-09	5.35-10	2.17-12	1.93-14	1.38-20	7.08-25	1.80-09	4.61-10
1.70-09	2.49-09	1.66-09	3.41-10	2.56-12	4.69-16	1.81-23		
3.52-10	9.03-10	7.31-10	1.90-10	1.66-12	4.29-16	1.62-23	7.61-10	1.94-10

PHI 90 TO 135 DEGREES

8.34-10	2.37-10	5.74-10	1.75-09	1.04-14	2.76-18	8.86-31	1.16-10	5.23-11
3.92-10	2.72-09	3.15-09	1.70-10	1.84-12	5.38-16	1.39-24	1.20-10	5.00-11
1.92-09	8.70-10	1.73-10	1.50-10	7.05-12	2.31-17	2.10-27	1.67-10	9.72-11
6.30-10	7.46-10	5.04-11	2.41-10	8.58-14	4.49-18	1.57-24	2.03-10	7.71-11
3.17-10	1.26-09	2.12-10	2.48-10	1.96-13	9.10-17	2.62-27	7.13-11	2.00-11
2.79-10	3.12-10	4.74-10	5.27-12	5.56-14	2.90-15	9.28-27	7.05-11	2.05-11
5.66-10	4.13-10	1.05-10	3.29-12	1.14-13	1.45-16	5.76-20	2.06-10	5.78-11
5.44-10	2.00-09	1.89-10	6.11-12	1.38-13	2.83-15	8.12-26	4.99-10	2.05-10
6.59-10	6.96-10	2.57-10	1.72-11	4.04-13	1.52-18	7.18-25	2.50-10	4.88-11
3.04-09	8.50-10	4.49-10	9.33-10	7.81-14	7.65-17	4.41-26	3.62-09	1.24-09
1.33-09	2.07-09	9.19-10	3.60-10	2.42-12	1.44-15	1.88-20		
2.57-10	6.04-10	3.94-10	1.61-10	1.88-12	9.12-16	1.88-20	6.25-10	1.03-10

PHI 135 TO 180 DEGREES

1.25-10	2.04-10	6.93-10	1.41-11	3.48-13	7.21-17	2.91-28	9.67-11	5.26-11
4.67-10	6.75-11	4.40-10	4.37-12	1.16-12	1.33-18	2.56-24	7.50-11	4.73-11
6.92-10	2.58-10	2.55-10	7.25-11	4.90-11	4.56-17	7.01-25	1.99-10	1.05-10
2.50-09	3.50-10	2.49-10	2.54-11	1.90-13	5.83-17	7.77-25	2.45-10	1.09-10
3.80-10	5.52-10	3.08-10	1.88-11	1.21-14	1.86-16	4.79-25	1.00-10	2.71-11
1.17-10	7.31-10	1.43-10	1.74-11	7.90-15	2.90-17	5.68-22	2.07-10	6.38-11
9.89-10	5.90-10	4.12-10	6.15-10	2.74-13	7.86-18	5.32-28	2.48-10	5.82-11
2.00-09	1.53-09	2.74-09	1.16-11	2.97-13	3.30-19	3.38-26	3.91-09	3.40-09
8.97-10	1.10-09	1.37-09	7.49-11	5.90-13	1.43-16	1.62-26	2.75-10	5.58-11
2.48-09	4.37-10	3.37-10	4.29-12	1.62-11	2.73-14	5.80-28	1.84-09	5.77-10
2.29-09	1.32-09	1.47-09	2.53-10	1.46-11	1.74-15	9.95-23		
5.10-10	3.17-10	4.75-10	1.28-10	1.30-11	1.65-15	9.84-23	1.49-09	9.08-10
							1.18-05	5.88-08

AIR SCATTERING 6.36 02 ENERGY 6.00-01 ANGLE 1.50 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	2.13-05	0.	0.	0.	0.	0.	0.	0.
4.00 01	2.53-06	2.71-06	0.	0.	0.	0.	0.	0.
6.00 01	0.	1.72-06	8.06-07	0.	0.	0.	0.	0.
8.00 01	0.	0.	1.73-06	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	1.86-06	0.	0.	0.	0.
1.00 02	0.	0.	0.	1.69-06	0.	0.	0.	0.
1.20 02	0.	0.	0.	2.68-06	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	3.05-06	0.	0.	0.
1.60 02	0.	0.	0.	0.	4.63-06	0.	0.	0.
1.80 02	0.	0.	0.	0.	2.41-06	0.	0.	0.
	1.72-06	9.29-07	7.80-07	1.49-06	1.76-06	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	1.35-05	0.	0.	0.	0.	4.71-07	5.59-10	1.77-11
4.00 01	1.61-06	1.73-06	0.	0.	0.	3.86-10	5.99-09	4.05-10
6.00 01	0.	1.10-06	5.13-07	0.	0.	8.28-09	5.08-09	4.85-10
8.00 01	0.	0.	1.10-06	0.	0.	2.45-08	1.40-09	5.45-10
9.00 01	0.	0.	0.	1.18-06	0.	2.57-09	2.13-09	7.41-10
1.00 02	0.	0.	0.	1.07-06	3.07-12	1.17-07	1.13-09	7.20-10
1.20 02	0.	0.	0.	1.70-06	1.43-09	4.25-09	4.71-10	1.53-09
1.40 02	0.	0.	0.	1.04-12	2.00-06	3.29-08	2.78-09	1.75-09
1.60 02	0.	0.	0.	2.23-12	3.02-06	8.42-10	1.42-09	3.15-09
1.80 02	0.	0.	7.40-12	3.93-11	1.62-06	2.24-09	2.85-09	2.99-09
	1.10-06	5.92-07	4.96-07	9.47-07	1.15-06	6.99-08	4.76-09	2.33-09
	2.68-07	2.95-07	2.49-07	3.94-07	2.12-07	3.58-08	1.23-09	4.19-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	5.09-11	1.18-11
4.00 01	0.	0.	0.	0.	0.	3.31-13	1.14-09	4.36-09
6.00 01	0.	0.	0.	0.	0.	1.93-11	2.01-09	1.05-09
8.00 01	0.	0.	0.	0.	0.	6.89-10	2.02-09	7.73-10
9.00 01	0.	0.	0.	0.	0.	6.72-09	4.46-10	4.41-10
1.00 02	0.	0.	0.	0.	3.81-12	1.77-09	3.45-10	3.77-10
1.20 02	0.	0.	0.	0.	1.13-11	3.16-09	3.83-09	9.86-10
1.40 02	0.	0.	0.	8.14-12	3.79-10	6.69-09	6.55-10	3.78-09
1.60 02	0.	0.	0.	2.61-11	6.38-09	8.31-10	2.54-09	4.85-09
1.80 02	0.	0.	1.32-11	2.46-10	6.13-09	4.78-10	7.30-10	1.65-09
	0.	0.	7.98-13	2.15-11	1.58-09	4.69-09	3.44-09	3.70-09
	0.	0.	7.98-13	1.28-11	4.96-10	1.19-09	8.84-10	1.09-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	7.96-09	2.05-11
4.00 01	0.	0.	0.	0.	0.	1.36-13	9.19-10	1.39-09
6.00 01	0.	0.	0.	0.	0.	8.09-10	4.52-10	1.37-09
8.00 01	0.	0.	0.	0.	1.77-10	1.99-10	2.21-09	2.27-08
9.00 01	0.	0.	0.	0.	7.91-12	9.47-10	1.59-09	3.45-10
1.00 02	0.	0.	0.	0.	1.01-09	5.53-10	6.22-10	3.19-10
1.20 02	0.	0.	0.	2.35-11	4.81-10	2.11-09	7.68-10	6.23-10
1.40 02	0.	0.	6.08-10	0.	2.22-10	1.85-09	6.09-09	8.00-10
1.60 02	0.	0.	6.17-12	1.03-11	3.80-08	2.48-09	1.19-09	3.66-09
1.80 02	0.	0.	5.98-13	2.45-11	2.37-09	5.89-10	1.39-09	7.40-09
	0.	0.	1.63-10	1.10-11	7.19-09	2.19-09	4.03-09	9.62-09
	0.	0.	1.62-10	7.91-12	5.06-09	4.45-10	1.65-09	7.09-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	7.33-12	5.14-10	1.03-10
4.00 01	0.	0.	0.	0.	0.	8.39-11	6.89-10	1.52-10
6.00 01	0.	0.	0.	0.	0.	6.27-11	2.29-09	8.85-10
8.00 01	0.	0.	0.	0.	0.	1.78-10	6.33-09	5.36-10
9.00 01	0.	0.	0.	0.	0.	4.18-10	4.22-08	1.74-09
1.00 02	0.	0.	0.	0.	0.	1.79-09	1.75-09	7.79-10
1.20 02	0.	0.	0.	7.51-11	4.36-10	9.74-10	3.69-09	3.52-10
1.40 02	0.	0.	0.	3.44-10	2.27-12	2.56-09	1.17-09	4.06-10
1.60 02	0.	0.	0.	2.27-10	3.25-09	2.91-09	1.70-09	9.55-10
1.80 02	0.	0.	6.75-12	0.	8.38-09	1.38-09	5.86-10	6.59-10
	0.	0.	4.07-13	1.56-10	1.21-09	2.06-09	1.23-08	1.25-09
	0.	0.	4.07-13	8.49-11	5.25-10	5.51-10	6.36-09	2.76-10

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AIR SCATTERING 6.36 02 ENERGY 6.00-01 ANGLE 1.50 01 DIST. 1.52 02
5.50 01 1.73 03 0. 0. 5.66 04 5.00 01 1.80 03

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	3.19-06
0.	0.	0.	0.	0.	0.	0.	6.50-07
0.	0.	0.	0.	0.	0.	0.	2.53-07
0.	0.	0.	0.	0.	0.	0.	1.73-07
0.	0.	0.	0.	0.	0.	0.	9.28-08
0.	0.	0.	0.	0.	0.	0.	8.43-08
0.	0.	0.	0.	0.	0.	0.	1.34-07
0.	0.	0.	0.	0.	0.	0.	1.53-07
0.	0.	0.	0.	0.	0.	0.	2.32-07
0.	0.	0.	0.	0.	0.	0.	1.21-07
0.	0.	0.	0.	0.	0.	0.	5.91-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
6.81-10	6.35-11	9.24-12	3.81-11	2.98-16	2.83-18	9.51-27	2.04-06	5.36-07
1.81-10	2.58-09	2.04-10	4.26-11	1.50-13	4.05-19	2.56-31	4.14-07	1.85-07
5.61-10	4.17-10	9.25-11	2.22-10	1.35-14	2.33-19	9.60-28	1.61-07	9.29-08
9.13-10	8.83-10	1.88-10	1.68-09	1.08-13	3.84-18	2.87-26	1.11-07	6.37-08
4.86-10	3.05-09	5.65-10	4.68-10	1.54-13	7.54-16	1.97-22	5.93-08	5.91-08
5.51-10	5.75-10	7.97-10	1.69-11	1.46-13	1.86-18	5.93-28	5.72-08	5.69-08
1.50-09	5.68-10	1.34-09	6.47-11	1.30-13	5.75-17	1.50-24	8.54-08	4.30-08
3.44-09	7.45-10	1.10-09	2.68-11	7.43-14	7.55-18	6.64-25	1.01-07	3.58-08
1.57-09	3.91-10	1.91-10	9.10-12	2.02-13	8.28-16	1.81-26	1.51-07	2.62-08
1.53-09	8.05-10	4.90-10	4.86-11	1.07-14	1.03-17	6.97-27	8.13-08	6.28-09
2.47-09	1.98-09	1.15-09	7.36-10	2.15-13	2.98-16	3.49-23		
7.96-10	6.46-10	4.17-10	5.50-10	4.97-14	1.94-16	5.42-23	3.81-07	0.

PHI 45 TO 90 DEGREES

6.85-10	1.21-10	1.74-10	5.16-13	7.58-16	8.73-19	7.64-29	1.84-11	8.73-12
4.11-10	9.15-10	1.11-10	2.51-10	1.15-12	9.98-19	7.34-27	1.42-10	6.89-11
4.86-10	3.57-10	1.35-10	8.84-11	7.96-14	4.49-17	1.26-24	9.72-11	3.47-11
6.70-10	5.12-10	2.21-09	9.47-12	1.40-13	1.64-18	9.42-28	1.37-10	3.93-11
7.85-10	1.19-09	3.53-10	2.82-11	1.15-13	2.55-16	6.31-21	2.55-10	1.15-10
6.06-10	3.02-10	2.25-10	3.75-11	3.86-13	5.54-17	6.22-27	9.00-11	2.27-11
5.20-10	1.70-09	8.86-10	1.41-10	4.51-13	1.46-17	7.06-25	2.65-10	7.62-11
4.16-10	3.13-10	8.72-10	4.54-11	2.13-13	5.97-17	5.22-25	3.36-10	1.12-10
1.18-09	7.93-10	2.37-10	1.29-11	1.27-13	6.01-17	1.98-24	5.52-10	1.71-10
2.02-09	2.50-10	1.46-09	6.27-12	3.90-14	3.85-18	2.26-28	4.47-10	1.42-10
1.32-09	1.48-09	1.47-09	1.42-10	5.82-13	9.80-17	1.10-21		
2.63-10	4.18-10	6.54-10	5.27-11	2.46-13	4.83-17	1.10-21	4.55-10	6.32-11

PHI 90 TO 135 DEGREES

7.35-10	6.99-11	4.60-10	1.32-11	4.81-17	2.37-21	6.51-34	2.59-10	2.33-10
5.23-09	3.86-10	3.70-10	3.71-11	5.97-15	4.67-18	1.52-29	1.68-10	9.36-11
1.74-09	1.16-09	1.50-10	2.86-11	3.95-12	1.57-16	1.48-26	1.13-10	3.42-11
3.11-10	3.32-10	5.81-10	1.23-10	2.57-13	1.90-18	5.70-31	5.51-10	4.36-10
5.15-10	4.70-10	5.62-10	1.05-11	2.28-13	3.22-16	9.96-27	1.04-10	3.17-11
6.28-10	8.69-11	5.18-10	2.34-10	1.43-13	5.70-16	6.06-28	1.13-10	5.29-11
4.59-10	1.89-09	3.39-10	1.24-11	1.07-12	7.96-18	5.85-27	1.56-10	3.39-11
4.22-09	3.37-09	2.69-09	1.07-10	8.15-13	2.97-18	1.46-27	4.72-10	2.05-10
2.30-09	9.57-10	2.27-10	5.30-11	5.57-12	2.34-16	2.91-27	2.14-09	1.44-09
6.45-10	5.14-10	6.00-10	8.67-11	6.76-14	8.09-19	2.89-24	3.52-10	1.19-10
3.43-09	2.30-09	1.41-09	1.45-10	2.74-12	2.42-16	1.83-25		
1.21-09	1.25-09	6.72-10	5.00-11	1.73-12	1.27-16	1.74-25	8.62-10	3.02-10

PHI 135 TO 180 DEGREES

5.86-09	6.92-10	1.58-11	1.09-09	1.11-14	1.32-18	0.	1.50-10	1.13-10
4.45-10	2.71-10	5.79-11	1.36-11	1.72-14	1.19-19	8.07-27	3.85-11	1.74-11
8.01-10	2.03-09	6.16-10	1.35-10	1.10-12	1.03-17	3.02-25	1.28-10	3.24-11
6.24-10	4.76-10	1.58-10	6.16-12	5.66-12	1.10-17	8.89-25	2.25-10	1.24-10
6.84-10	1.59-09	4.51-10	1.43-11	2.26-13	1.29-19	4.71-26	1.35-09	1.05-09
1.46-10	7.11-10	2.94-10	1.35-10	1.31-13	9.27-16	9.02-27	1.36-10	4.81-11
6.71-10	1.27-09	6.02-10	8.48-11	5.66-14	2.89-17	7.83-22	2.05-10	8.45-11
5.49-10	1.03-09	9.19-11	4.23-11	3.90-13	2.26-16	1.13-23	1.60-10	5.29-11
8.34-10	1.53-09	3.24-10	1.43-10	4.01-12	5.49-19	5.36-29	3.67-10	1.35-10
2.45-09	3.19-10	1.46-09	7.08-10	5.12-13	6.92-20	1.34-25	5.64-10	2.23-10
1.65-09	2.16-09	7.21-10	2.39-10	3.05-12	2.37-16	2.59-22		
4.09-10	5.36-10	1.81-10	8.86-11	1.96-12	1.79-16	2.56-22	5.88-10	1.94-10
							6.01-07	9.39-08

AIR SCATTERING 6.37 02 ENERGY 6.00-01 ANGLE 3.00 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	5.44-06	3.10-06	0.	0.	0.	0.	0.	0.
4.00 01	0.	1.78-06	3.38-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	1.01-06	0.	0.	0.	0.	0.
8.00 01	0.	0.	4.25-07	5.07-07	0.	0.	0.	0.
9.00 01	0.	0.	0.	1.25-06	0.	0.	0.	0.
1.00 02	0.	0.	0.	1.33-06	0.	0.	0.	0.
1.20 02	0.	0.	0.	2.86-07	9.51-07	0.	0.	0.
1.40 02	0.	0.	0.	0.	1.51-06	0.	0.	0.
1.60 02	0.	0.	0.	0.	8.80-07	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	3.28-07	4.96-07	4.65-07	7.06-07	8.66-07	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	3.46-06	1.97-06	0.	0.	0.	0.	1.59-08	2.99-10
4.00 01	0.	1.13-06	2.15-07	0.	0.	0.	1.61-08	4.42-10
6.00 01	0.	0.	6.41-07	0.	0.	1.90-10	6.02-09	4.23-10
8.00 01	0.	0.	2.71-07	3.23-07	1.41-11	7.18-09	5.97-09	2.79-10
9.00 01	0.	0.	0.	7.95-07	4.02-14	1.34-08	5.53-10	3.42-09
1.00 02	0.	0.	0.	8.47-07	1.72-11	3.93-09	2.75-10	1.55-09
1.20 02	0.	0.	0.	1.82-07	8.57-07	4.06-09	1.38-09	9.98-10
1.40 02	0.	0.	0.	0.	1.01-06	9.08-09	1.02-09	2.98-09
1.60 02	0.	0.	1.08-11	3.79-11	7.00-07	1.09-09	1.70-09	3.89-09
1.80 02	0.	0.	7.02-12	3.92-10	6.34-08	3.78-10	8.77-10	2.10-09
	2.09-07	3.16-07	2.96-07	4.50-07	6.75-07	9.35-09	8.52-09	3.08-09
	6.97-08	1.11-07	9.89-08	1.38-07	1.13-07	3.18-09	3.27-09	6.49-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	3.88-10	3.23-10
4.00 01	0.	0.	0.	0.	0.	0.	2.03-09	2.10-08
6.00 01	0.	0.	0.	0.	0.	1.02-10	4.93-09	2.35-09
8.00 01	0.	0.	0.	0.	1.80-14	4.45-09	1.15-09	2.37-09
9.00 01	0.	0.	0.	0.	6.26-13	1.90-08	8.90-10	8.30-10
1.00 02	0.	0.	0.	0.	2.33-11	3.94-09	1.92-09	2.41-09
1.20 02	0.	0.	0.	0.	3.34-10	8.19-09	3.12-10	2.12-09
1.40 02	0.	0.	3.58-11	1.77-11	1.78-09	3.15-09	1.21-09	1.23-09
1.60 02	0.	0.	1.05-13	2.72-11	4.01-08	7.07-09	9.39-10	7.64-10
1.80 02	0.	0.	3.02-11	9.95-11	5.09-09	7.52-10	7.26-10	1.76-09
	0.	0.	1.14-11	1.54-11	7.86-09	1.03-08	3.18-09	6.89-09
	0.	0.	9.70-12	7.30-12	5.52-09	3.31-09	7.93-10	3.76-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	8.87-10	6.08-10
4.00 01	0.	0.	0.	0.	0.	1.24-11	5.44-09	1.51-10
6.00 01	0.	0.	0.	0.	0.	1.04-13	6.56-10	5.40-10
8.00 01	0.	0.	0.	0.	0.	3.62-10	1.10-09	8.11-09
9.00 01	0.	0.	0.	0.	0.	4.16-10	6.51-10	5.81-10
1.00 02	0.	0.	0.	0.	4.08-12	2.94-10	6.15-10	1.55-09
1.20 02	0.	0.	0.	0.	3.12-11	1.97-08	2.72-09	1.05-09
1.40 02	0.	0.	5.02-11	5.14-10	3.86-11	2.41-09	5.88-10	1.40-09
1.60 02	0.	0.	0.	1.27-10	1.54-09	1.96-09	7.35-08	9.91-10
1.80 02	0.	0.	5.18-11	1.65-11	1.15-09	8.04-10	1.62-09	6.48-10
	0.	0.	1.85-11	1.60-10	3.58-10	7.69-09	1.57-08	4.15-09
	0.	0.	1.37-11	1.30-10	1.68-10	5.14-09	1.24-08	1.94-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	8.03-10	1.14-09
4.00 01	0.	0.	0.	0.	0.	0.	1.63-08	1.02-09
6.00 01	0.	0.	0.	0.	0.	9.13-11	2.99-08	1.75-09
8.00 01	0.	0.	0.	0.	0.	2.10-11	4.97-09	2.45-10
9.00 01	0.	0.	0.	0.	0.	5.11-12	1.67-09	1.67-10
1.00 02	0.	0.	0.	0.	0.	6.40-11	1.02-09	5.32-10
1.20 02	0.	0.	0.	0.	4.03-13	1.26-09	3.44-09	2.62-10
1.40 02	0.	0.	0.	5.68-10	8.04-11	2.48-09	3.13-10	1.73-09
1.60 02	0.	0.	0.	0.	4.41-10	1.20-08	1.92-09	8.32-10
1.80 02	0.	0.	0.	8.86-11	4.47-10	3.32-08	6.16-09	5.28-10
	0.	0.	0.	1.57-10	1.20-10	5.20-09	1.48-08	1.63-09
	0.	0.	0.	1.51-10	5.21-11	2.31-09	7.86-09	4.85-10

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AIR SCATTERING 6.37 02 ENERGY 6.00-01 ANGLE 3.00 01 DIST. 1.52 02
5.30 01 1.73 03 0. 0. 5.64 04 5.00 01 1.80 03

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	1.13-06
0.	0.	0.	0.	0.	0.	0.	2.12-07
0.	0.	0.	0.	0.	0.	0.	1.01-07
0.	0.	0.	0.	0.	0.	0.	6.79-08
0.	0.	0.	0.	0.	0.	0.	6.24-08
0.	0.	0.	0.	0.	0.	0.	6.65-08
0.	0.	0.	0.	0.	0.	0.	6.18-08
0.	0.	0.	0.	0.	0.	0.	7.57-08
0.	0.	0.	0.	0.	0.	0.	4.40-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	2.24-07

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
2.74-10	4.10-10	3.16-11	4.41-12	4.13-16	1.99-19	6.61-31	7.17-07	2.07-07
1.87-09	3.76-10	4.34-11	1.88-11	1.97-13	9.91-20	3.46-22	1.35-07	5.50-08
1.39-09	8.71-11	2.03-10	9.59-12	8.81-13	3.29-18	3.95-25	6.43-08	2.87-08
1.10-09	6.10-10	2.34-10	8.23-11	2.81-13	3.87-17	5.74-24	4.36-08	1.93-08
2.76-10	1.02-09	2.28-10	3.14-11	6.03-13	8.29-17	1.53-27	4.02-08	2.29-08
5.47-10	9.89-10	1.23-10	4.04-11	5.81-13	9.84-17	2.05-24	4.25-08	2.12-08
1.12-09	7.02-10	2.51-10	2.81-11	1.03-12	1.93-17	3.06-25	5.22-08	1.99-08
8.66-10	3.21-09	4.17-10	4.49-11	3.73-13	1.40-17	8.15-24	5.11-08	7.95-09
1.31-08	7.75-10	5.88-10	1.93-11	4.32-12	7.82-16	5.18-27	3.55-08	5.38-09
6.39-09	3.31-10	6.91-10	2.97-11	8.44-14	8.08-19	8.45-27	3.41-09	2.70-09
4.48-09	1.90-09	5.37-10	7.17-11	1.76-12	1.91-16	6.47-23		
1.99-09	6.34-10	1.37-10	2.01-11	6.93-13	1.06-16	6.01-23	1.49-07	2.03-08

PHI 45 TO 90 DEGREES

1.25-10	1.49-09	7.44-11	1.16-11	2.47-14	1.05-18	1.70-33	3.64-11	1.85-11
2.78-10	1.84-10	6.27-11	1.06-12	2.02-11	4.60-19	5.27-23	4.90-10	4.19-10
3.38-10	1.37-09	9.25-11	1.60-10	7.21-14	7.29-17	4.39-22	2.20-10	8.86-11
1.03-09	2.40-09	8.51-11	7.29-11	1.18-13	1.85-15	2.52-27	2.61-10	8.31-11
4.24-10	6.68-10	2.07-11	2.39-11	1.68-14	2.12-15	5.99-25	6.30-10	4.49-10
7.07-10	6.29-10	3.72-10	3.73-12	3.20-13	1.67-16	6.30-23	2.49-10	8.46-11
6.87-10	4.72-10	5.05-10	2.41-11	1.11-13	1.28-15	6.17-23	3.38-10	1.37-10
2.53-09	1.43-09	5.79-10	2.94-11	6.97-13	3.36-15	2.60-28	3.20-10	7.68-11
1.17-09	5.59-10	4.35-10	3.79-11	1.08-12	1.68-15	3.16-26	2.30-09	1.60-09
6.88-10	2.54-10	2.76-10	1.89-11	1.24-14	1.36-19	3.13-29	3.61-10	1.13-10
1.82-09	2.14-09	5.47-10	9.55-11	4.04-12	2.62-15	1.57-22		
3.69-10	8.48-10	1.35-10	3.84-11	3.43-12	1.35-15	9.19-23	1.09-09	3.04-10

PHI 90 TO 135 DEGREES

4.72-10	2.09-10	4.34-12	1.26-12	3.17-14	1.67-19	2.93-31	5.04-11	2.08-11
7.56-10	4.33-10	1.18-10	4.38-11	6.34-13	8.94-19	4.93-23	1.88-10	6.25-11
5.38-10	2.41-10	4.83-10	3.56-11	1.81-15	2.04-17	9.40-24	4.87-11	1.30-11
4.77-10	4.57-10	2.09-10	7.02-12	3.99-13	1.58-16	3.19-24	2.22-10	1.18-10
7.58-10	4.72-10	1.68-10	1.73-11	9.19-15	3.48-16	2.48-26	6.53-11	1.89-11
8.05-10	1.78-10	4.70-10	6.31-11	4.45-15	1.59-16	1.48-24	8.15-11	2.89-11
1.38-09	2.60-09	6.21-10	7.09-12	7.97-14	2.06-17	4.81-26	7.54-10	4.75-10
1.26-09	9.26-10	3.96-10	3.66-11	4.23-13	1.69-17	8.94-25	1.89-10	4.73-11
5.28-10	9.22-10	3.48-10	2.56-11	4.12-14	3.21-18	2.04-26	2.39-09	2.13-09
2.65-09	1.58-09	3.19-10	6.31-12	9.56-14	1.88-15	1.82-28	2.21-10	5.73-11
1.77-09	1.76-09	7.16-10	5.03-11	3.97-13	2.71-16	1.26-23		
3.57-10	7.33-10	1.91-10	1.53-11	1.69-13	1.41-16	1.01-23	8.71-10	4.04-10

PHI 135 TO 180 DEGREES

1.17-10	7.93-11	1.11-10	4.46-12	1.93-15	2.64-20	4.38-29	5.12-11	2.44-11
1.10-09	2.23-09	1.72-10	2.80-11	1.35-12	4.37-18	2.00-26	5.57-10	4.34-10
6.40-10	3.65-10	6.94-10	4.52-12	2.73-13	1.07-14	7.23-29	9.57-10	8.29-10
3.21-10	2.14-10	1.58-10	4.56-11	2.83-14	1.47-19	1.92-20	1.65-10	7.55-11
4.11-10	5.04-10	3.55-10	1.28-10	2.87-13	1.43-17	1.93-27	7.13-11	2.72-11
1.06-09	3.60-09	1.52-09	9.92-12	3.91-12	2.62-19	1.12-27	1.16-10	4.28-11
1.51-10	9.49-10	2.02-10	3.53-11	2.59-12	3.49-18	3.23-28	1.61-10	8.43-11
1.60-10	2.90-10	7.82-10	2.61-11	1.38-13	3.55-19	5.32-27	1.64-10	6.32-11
6.47-10	4.61-10	1.05-10	2.08-11	9.61-13	5.98-18	3.32-26	4.76-10	1.89-10
6.25-10	6.13-09	1.92-09	4.83-12	3.60-13	7.05-18	1.07-28	1.31-09	1.00-09
9.70-10	2.11-09	1.01-09	6.75-11	2.11-12	2.85-15	6.27-21		
2.39-10	7.85-10	3.48-10	3.35-11	1.33-12	2.82-15	6.27-21	6.99-10	2.47-10
							2.39-07	3.20-08

AIR SCATTERING 6.38 02 ENERGY 6.00-01 ANGLE 6.00 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	9.89-07	1.85-06	0.	0.	0.	0.	0.
4.00 01	0.	0.	7.45-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	5.47-08	8.52-07	0.	0.	0.	0.
8.00 01	0.	0.	0.	5.45-07	1.62-07	0.	0.	0.
9.00 01	0.	0.	0.	0.	7.05-07	0.	0.	0.
1.00 02	0.	0.	0.	0.	6.60-07	0.	0.	0.
1.20 02	0.	0.	0.	0.	5.68-07	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	5.96-08	2.55-07	4.04-07	4.75-07	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	6.29-07	1.17-06	0.	0.	1.42-08	2.42-09	3.19-10
4.00 01	0.	0.	4.74-07	0.	0.	1.60-09	5.25-09	4.17-10
6.00 01	0.	0.	3.48-08	5.42-07	3.15-09	9.28-09	2.45-09	9.88-10
8.00 01	0.	0.	0.	3.47-07	2.02-07	4.41-09	2.25-09	1.32-09
9.00 01	0.	0.	0.	0.	4.79-07	1.76-09	3.81-10	2.73-09
1.00 02	0.	0.	0.	1.91-17	4.32-07	6.23-09	1.11-09	1.23-09
1.20 02	0.	0.	0.	1.76-12	4.01-07	5.54-09	4.39-09	1.79-09
1.40 02	0.	0.	0.	1.35-11	1.12-08	1.93-09	5.06-09	2.20-09
1.60 02	0.	0.	0.	1.92-10	4.25-09	4.86-09	2.28-09	8.37-10
1.80 02	0.	0.	0.	2.78-12	1.35-08	1.79-08	7.13-10	8.55-10
	0.	3.80-08	1.62-07	2.57-07	3.60-07	1.07-08	5.92-09	2.84-09
	0.	2.19-08	4.19-08	5.99-08	4.64-08	2.82-09	1.23-09	4.42-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	6.48-12	1.20-09	1.28-09
4.00 01	0.	0.	0.	0.	0.	1.34-11	2.56-09	1.90-10
6.00 01	0.	0.	0.	0.	0.	6.14-10	2.53-09	5.14-10
8.00 01	0.	0.	0.	0.	6.30-12	4.00-09	2.00-09	1.79-09
9.00 01	0.	0.	0.	0.	2.08-11	3.63-09	1.56-09	1.53-09
1.00 02	0.	0.	0.	0.	4.05-10	1.30-08	4.96-10	1.07-09
1.20 02	0.	0.	0.	0.	2.15-10	5.44-09	6.66-10	3.88-09
1.40 02	0.	0.	0.	0.	7.93-10	4.11-09	1.67-09	1.85-09
1.60 02	0.	0.	0.	4.90-12	2.09-10	1.56-09	1.10-09	2.88-10
1.80 02	0.	0.	0.	0.	3.07-11	3.28-09	3.20-10	1.50-08
	0.	0.	0.	8.51-13	3.95-10	7.69-09	3.07-09	4.00-09
	0.	0.	0.	8.51-13	1.04-10	1.46-09	7.62-10	1.33-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	3.85-15	7.18-09	7.88-10
4.00 01	0.	0.	0.	0.	0.	5.92-13	2.22-09	9.30-10
6.00 01	0.	0.	0.	0.	0.	0.	1.20-08	6.63-10
8.00 01	0.	0.	0.	0.	0.	5.78-11	2.25-09	9.08-10
9.00 01	0.	0.	0.	0.	0.	3.96-10	2.20-09	2.27-10
1.00 02	0.	0.	0.	0.	0.	1.44-11	6.21-09	7.90-10
1.20 02	0.	0.	0.	6.00-11	0.	5.04-09	1.74-09	2.94-10
1.40 02	0.	0.	0.	0.	1.81-11	7.20-09	5.02-10	1.88-09
1.60 02	0.	0.	0.	0.	1.14-10	1.50-09	9.66-10	9.48-09
1.80 02	0.	0.	0.	0.	2.14-10	2.92-09	5.92-09	2.64-10
	0.	0.	0.	1.96-11	3.75-11	4.09-09	7.44-09	3.12-09
	0.	0.	0.	1.96-11	2.07-11	1.82-09	2.33-09	1.60-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	3.18-11	5.00-10
4.00 01	0.	0.	0.	0.	0.	8.75-11	2.85-08	2.59-10
6.00 01	0.	0.	0.	0.	0.	0.	9.34-10	1.09-08
8.00 01	0.	0.	0.	0.	0.	1.10-11	2.85-09	6.83-10
9.00 01	0.	0.	0.	0.	0.	0.	1.61-09	2.56-10
1.00 02	0.	0.	0.	0.	0.	0.	1.11-09	6.27-09
1.20 02	0.	0.	0.	0.	6.55-12	1.41-11	1.10-09	4.90-10
1.40 02	0.	0.	0.	0.	0.	9.55-11	5.95-09	1.33-09
1.60 02	0.	0.	0.	0.	1.14-11	4.75-10	9.10-10	3.53-10
1.80 02	0.	0.	0.	0.	0.	9.22-10	1.75-10	5.69-10
	0.	0.	0.	0.	4.12-12	1.87-10	8.71-09	4.94-09
	0.	0.	0.	0.	2.45-12	4.73-11	4.62-09	2.96-09

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AIR SCATTERING 6.38 02 ENERGY 6.00-01 ANGLE 6.00 01 DIST. 1.52 02

6.70 01	1.72 03	0.	0.	5.62 04	5.00 01	1.80 03		

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	2.83-07
0.	0.	0.	0.	0.	0.	0.	7.45-08
0.	0.	0.	0.	0.	0.	0.	4.80-08
0.	0.	0.	0.	0.	0.	0.	3.53-08
0.	0.	0.	0.	0.	0.	0.	3.53-08
0.	0.	0.	0.	0.	0.	0.	3.30-08
0.	0.	0.	0.	0.	0.	0.	2.84-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							7.54-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
4.97-11	2.01-10	5.39-11	4.48-11	1.04-14	2.82-20	2.46-31	1.81-07	6.00-08
4.85-10	1.96-10	1.53-10	1.06-11	5.03-14	4.20-19	7.30-27	4.76-08	1.67-08
2.96-09	4.51-10	1.53-10	2.39-11	3.11-13	1.14-16	2.15-29	3.12-08	9.74-09
8.05-10	1.37-09	6.21-10	2.37-11	3.21-13	1.18-17	6.61-23	2.77-08	7.80-09
3.51-10	2.79-10	2.29-10	7.38-11	4.18-13	6.15-16	9.95-20	2.41-08	6.39-09
1.12-09	1.45-09	2.65-10	9.58-10	2.07-13	7.92-18	7.82-24	2.19-08	4.47-09
3.15-09	1.81-09	8.96-10	2.87-11	3.61-13	5.45-18	1.76-20	2.05-08	1.64-09
1.07-09	8.80-10	3.63-10	1.25-10	2.24-12	4.86-17	1.48-25	8.49-10	1.37-10
1.61-09	4.97-10	2.25-10	2.79-09	7.31-12	2.71-17	3.05-30	5.12-10	1.12-10
4.02-10	2.42-10	1.25-10	9.47-12	6.49-14	1.11-16	3.36-31	1.26-09	7.58-10
3.01-09	1.84-09	7.95-10	7.25-10	2.29-12	1.68-16	2.30-23		
8.78-10	4.73-10	2.20-10	5.14-10	1.28-12	8.94-17	1.54-23	5.16-08	5.19

PHI 45 TO 90 DEGREES

3.77-10	2.22-10	1.42-10	6.69-11	4.54-16	2.61-19	0.	7.36-11	2.82-11
3.13-10	4.09-10	1.60-10	5.95-11	2.29-12	4.03-18	3.88-26	9.32-11	5.00-11
6.72-10	5.40-10	2.12-10	3.84-11	3.62-13	1.64-16	2.80-25	1.26-10	6.50-11
6.32-10	1.63-09	2.90-10	4.99-11	1.65-13	2.81-17	1.48-24	2.49-10	5.83-11
1.03-09	6.33-10	3.98-10	8.06-12	6.00-14	1.35-17	1.43-25	2.18-10	5.67-11
7.54-10	1.96-09	3.82-10	8.60-12	3.57-13	4.51-20	4.42-27	4.85-10	1.55-10
7.49-10	5.84-10	1.07-10	1.49-10	9.95-13	3.10-18	7.56-28	2.95-10	9.62-11
4.57-09	3.06-09	3.58-10	4.12-11	1.18-13	3.05-17	4.61-24	3.76-10	8.51-11
1.19-09	4.19-10	4.14-10	2.05-11	2.72-13	2.09-18	2.85-27	1.29-10	2.76-11
6.51-10	6.48-10	3.31-10	4.42-11	7.97-13	1.96-20	4.19-25	4.33-10	2.93-10
2.48-09	2.33-09	5.45-10	1.10-10	1.07-12	1.48-16	1.84-24		
8.01-10	8.31-10	1.02-10	4.12-11	3.80-13	6.18-17	1.32-24	5.02-10	6.27-11

PHI 90 TO 135 DEGREES

3.52-11	4.52-11	3.32-10	2.52-10	1.47-12	3.12-17	2.09-30	2.38-10	1.21-10
1.94-09	3.70-10	1.70-10	3.17-11	2.90-15	4.29-18	8.49-22	1.30-10	5.30-11
7.64-10	4.80-10	3.54-10	3.40-11	1.34-13	5.13-17	4.71-25	3.98-10	2.44-10
2.72-10	3.04-10	9.30-11	9.42-11	1.95-12	1.50-17	8.76-22	9.75-11	2.58-11
2.93-10	6.96-11	1.56-10	2.93-11	2.03-12	9.25-17	1.47-27	9.09-11	3.21-11
2.82-10	9.18-10	1.76-10	4.77-11	4.25-14	9.19-17	3.27-27	2.20-10	1.12-10
9.40-10	2.85-10	7.42-10	2.34-11	9.23-15	3.12-16	1.03-27	2.41-10	7.50-11
1.69-09	3.58-10	1.79-09	1.69-11	9.04-13	1.11-16	1.05-25	3.25-10	1.86-10
5.75-10	1.70-09	4.31-10	9.01-11	4.94-14	5.90-18	4.44-27	3.03-10	1.82-10
1.97-10	1.34-09	1.27-11	3.99-12	4.67-14	4.45-18	6.02-24	2.99-10	1.27-10
1.60-09	1.03-09	1.02-09	1.02-10	1.38-12	1.86-16	4.34-22		
4.44-10	2.77-10	5.58-10	3.50-11	7.17-13	1.05-16	3.21-22	4.64-10	9.54-11

PHI 135 TO 180 DEGREES

6.94-11	7.30-11	7.36-10	1.93-10	2.57-12	6.79-19	3.98-25	2.18-11	1.07-11
1.28-10	1.59-09	9.19-10	1.70-12	2.16-12	2.45-16	2.19-28	8.89-10	7.59-10
2.00-09	1.14-09	4.00-10	4.26-11	4.19-14	2.22-19	1.48-26	3.02-10	2.15-10
5.73-10	4.01-10	3.26-10	8.46-12	4.10-13	3.39-17	2.89-25	1.18-10	4.38-11
7.99-10	2.71-10	2.26-10	2.73-10	4.70-13	3.48-16	7.18-24	7.63-11	2.73-11
3.05-10	4.20-10	2.01-10	2.44-11	1.85-13	6.68-19	2.09-25	1.71-10	9.90-11
6.00-10	6.89-10	1.09-09	4.33-11	5.33-13	8.22-19	1.60-25	7.35-11	2.63-11
1.08-09	2.94-10	2.23-10	2.19-11	7.74-13	3.03-16	5.08-27	2.35-10	1.50-10
4.49-10	1.70-09	4.99-10	1.20-11	2.52-14	3.28-16	1.64-26	8.03-11	2.27-11
1.31-08	4.65-10	7.77-11	1.46-11	3.31-12	9.39-19	1.26-25	3.12-10	2.19-10
2.29-09	1.46-09	9.97-10	1.01-10	1.37-12	2.52-16	1.47-24		
8.12-10	4.19-10	3.00-10	4.85-11	4.58-13	1.03-16	1.25-24	4.37-10	1.66-10
							8.32-08	9.73-09

AIR SCATTERING 6.39 02 ENERGY 6.00-01 ANGLE 9.00 01 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	0.	9.40-07	1.68-06	0.	0.	0.	0.
4.00 01	0.	0.	0.	1.17-06	0.	0.	0.	0.
6.00 01	0.	0.	0.	1.74-07	5.78-07	0.	0.	0.
8.00 01	0.	0.	0.	0.	5.92-07	0.	0.	0.
9.00 01	0.	0.	0.	0.	3.49-07	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	5.67-08	3.51-07	4.08-07	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	0.	5.98-07	1.07-06	0.	3.09-09	2.02-09	1.88-10
4.00 01	0.	0.	0.	7.44-07	3.64-11	8.01-10	1.23-09	1.20-09
6.00 01	0.	0.	0.	1.11-07	3.68-07	9.28-09	6.02-09	2.20-09
8.00 01	0.	0.	0.	0.	4.20-07	2.43-09	1.71-09	1.11-09
9.00 01	0.	0.	0.	1.42-11	4.15-07	2.39-09	4.97-09	1.83-09
1.00 02	0.	0.	0.	1.17-12	1.73-08	1.77-09	1.93-09	1.84-09
1.20 02	0.	0.	0.	0.	8.44-09	1.40-09	1.42-09	2.90-09
1.40 02	0.	0.	0.	0.	8.19-10	7.87-09	3.39-10	2.02-09
1.60 02	0.	0.	0.	0.	4.41-11	1.09-08	1.77-09	1.46-09
1.80 02	0.	0.	0.	0.	3.35-14	1.48-09	4.00-09	7.32-10
	0.	0.	3.61-08	2.23-07	3.13-07	8.83-09	4.80-09	3.58-09
	0.	0.	1.61-08	4.82-08	3.80-08	2.46-09	1.27-09	6.94-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	2.92-08	1.33-09	2.49-10
4.00 01	0.	0.	0.	0.	5.27-11	1.06-09	1.29-09	1.07-09
6.00 01	0.	0.	0.	0.	1.03-13	1.51-09	9.18-10	8.92-10
8.00 01	0.	0.	0.	0.	7.72-11	6.65-09	2.04-09	2.14-09
9.00 01	0.	0.	0.	0.	1.44-12	6.24-09	6.86-10	6.36-10
1.00 02	0.	0.	1.10-14	4.90-09	1.71-11	4.46-09	1.03-09	9.20-10
1.20 02	0.	0.	0.	1.61-11	4.50-11	3.39-09	3.18-10	1.34-09
1.40 02	0.	0.	0.	0.	1.21-11	2.12-09	4.30-08	3.10-09
1.60 02	0.	0.	0.	0.	1.61-10	1.66-09	2.51-09	2.32-09
1.80 02	0.	0.	0.	0.	1.12-10	1.97-09	7.81-10	4.26-09
	0.	0.	1.91-15	8.57-10	9.02-11	8.45-09	1.35-08	3.33-09
	0.	0.	1.91-15	8.50-10	3.18-11	2.45-09	1.12-08	5.98-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	4.50-10	1.97-09	5.04-09
4.00 01	0.	0.	0.	0.	0.	6.50-10	6.02-10	1.59-09
6.00 01	0.	0.	0.	0.	0.	1.29-08	1.20-09	2.24-10
8.00 01	0.	0.	0.	0.	0.	2.25-10	8.82-10	6.36-10
9.00 01	0.	0.	0.	0.	0.	9.35-10	9.99-10	3.06-09
1.00 02	0.	0.	0.	0.	2.35-13	8.81-11	8.46-10	1.54-09
1.20 02	0.	0.	0.	0.	1.26-12	9.41-10	1.02-09	1.92-09
1.40 02	0.	0.	0.	0.	2.32-11	2.58-10	3.72-09	2.96-09
1.60 02	0.	0.	0.	0.	1.44-10	6.76-09	4.59-10	5.33-10
1.80 02	0.	0.	0.	0.	0.	1.94-10	1.39-08	5.52-10
	0.	0.	0.	0.	3.17-11	5.40-09	3.39-09	3.19-09
	0.	0.	0.	0.	2.56-11	3.49-09	7.15-10	8.30-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	5.29-11	2.46-10	2.29-09
4.00 01	0.	0.	0.	0.	0.	8.04-11	9.51-10	2.43-10
6.00 01	0.	0.	0.	0.	0.	2.77-09	7.05-09	5.24-10
8.00 01	0.	0.	0.	0.	0.	1.84-12	7.13-10	1.43-09
9.00 01	0.	0.	0.	0.	0.	0.	1.35-08	4.24-10
1.00 02	0.	0.	0.	0.	0.	2.13-11	4.56-09	2.43-10
1.20 02	0.	0.	0.	0.	1.76-12	7.03-11	3.76-09	4.37-10
1.40 02	0.	0.	0.	0.	0.	1.52-11	1.75-09	5.16-10
1.60 02	0.	0.	0.	0.	0.	1.90-09	2.31-09	1.49-09
1.80 02	0.	0.	0.	0.	0.	6.04-09	6.73-11	3.33-10
	0.	0.	0.	0.	5.76-13	1.48-09	7.52-09	1.46-09
	0.	0.	0.	0.	5.76-13	8.78-10	2.64-09	4.34-10

103707337701 372333276771

AIR SCATTERING 6.39 02 ENERGY 6.00-01 ANGLE 9.00 01 DIST. 1.52 02
6.70 01 1.72 03 0. 0. 5.65 04 5.00 01 1.80 03

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02	
0.	0.	0.	0.	0.	0.	0.	1.78-07
0.	0.	0.	0.	0.	0.	0.	5.85-08
0.	0.	0.	0.	0.	0.	0.	3.26-08
0.	0.	0.	0.	0.	0.	0.	2.96-08
0.	0.	0.	0.	0.	0.	0.	1.75-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							4.36-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
1.31-10	5.52-11	1.21-11	8.07-11	5.07-15	2.57-18	4.05-26	1.13-07	3.58-08
1.88-09	6.75-10	3.59-10	2.12-11	1.59-12	2.30-14	6.33-29	3.74-08	1.04-08
2.50-09	4.65-10	2.84-10	3.04-11	1.95-12	2.20-13	1.18-24	2.45-08	5.00-09
1.84-09	4.77-10	4.68-10	8.42-11	1.09-12	2.34-17	3.24-20	2.12-08	2.62-09
7.45-10	3.61-09	3.22-09	3.09-11	1.05-12	5.23-16	6.28-22	2.11-08	6.16-09
1.01-09	3.49-10	2.21-10	3.61-10	1.74-12	1.30-15	8.41-23	1.04-09	4.09-10
7.71-10	4.28-10	2.97-10	3.75-10	2.65-12	6.19-14	1.56-23	5.90-10	1.53-10
6.37-10	6.04-10	2.83-10	2.52-11	1.32-13	8.42-17	2.98-25	3.49-10	1.49-10
4.54-10	6.54-10	3.93-10	2.67-11	1.80-11	6.20-16	4.80-24	4.30-10	2.88-10
1.86-10	7.11-10	7.68-11	5.78-10	1.51-12	7.07-15	2.65-25	1.95-10	6.50-11
2.41-09	1.54-09	1.13-09	2.81-10	5.74-12	8.36-14	1.07-20		
5.22-10	4.35-10	5.71-10	1.78-10	3.27-12	7.98-14	1.05-20	3.10-08	3.46-09

PHI 45 TO 90 DEGREES

1.48-09	4.39-11	6.25-10	6.35-12	4.77-12	1.09-19	6.06-27	9.58-10	7.92-10
7.07-10	5.38-10	1.17-10	9.41-12	1.68-13	1.08-15	1.31-26	1.15-10	3.49-11
5.99-10	1.37-10	2.18-10	1.79-11	7.59-12	7.29-16	2.10-27	1.06-10	2.42-11
9.25-10	1.09-09	7.80-11	2.24-11	1.27-12	2.20-16	1.01-24	3.38-10	1.58-10
7.20-10	5.06-10	6.15-10	6.46-11	4.52-13	2.45-16	1.21-22	2.47-10	9.73-11
8.16-10	6.11-10	7.68-11	3.00-11	4.91-13	3.72-17	5.00-27	4.52-10	2.81-10
3.08-09	1.73-09	2.16-10	3.33-11	1.68-12	1.30-16	4.14-24	2.22-10	7.87-11
8.18-10	4.36-10	1.82-10	2.73-11	1.91-13	5.26-18	1.80-28	1.44-09	1.26-09
8.22-10	3.28-10	1.25-10	1.31-11	1.26-12	8.95-17	3.06-25	2.00-10	6.09-11
3.20-10	1.05-10	3.89-10	3.77-12	6.15-14	6.39-17	3.38-28	1.85-10	7.36-11
2.33-09	1.43-09	4.26-10	5.11-11	3.74-12	5.67-16	2.27-23		
7.51-10	5.64-10	9.03-11	1.55-11	2.11-12	2.78-16	2.13-23	8.39-10	3.50-10

PHI 90 TO 135 DEGREES

2.10-09	3.40-10	7.34-11	1.06-11	1.48-13	7.55-18	4.59-26	2.20-10	8.11-11
2.12-09	2.38-10	1.90-10	1.38-11	6.18-12	1.24-19	1.86-25	1.16-10	4.13-11
8.38-10	1.84-10	3.05-10	1.09-10	1.69-14	1.40-16	6.56-25	4.47-10	3.82-10
6.53-10	2.67-10	1.85-10	4.64-11	4.00-13	6.92-17	1.33-28	6.39-11	1.42-11
9.64-10	5.20-10	1.12-10	3.63-11	1.05-13	6.99-19	1.07-20	1.45-10	6.74-11
2.13-10	5.47-10	2.94-10	2.09-11	3.74-14	3.75-18	1.03-27	7.16-11	2.71-11
5.56-10	5.45-10	2.82-10	3.11-11	2.07-14	8.24-19	1.86-22	1.17-10	3.63-11
3.81-10	7.23-09	5.75-11	1.52-11	1.89-13	5.68-18	5.25-25	2.60-10	7.82-11
1.86-10	3.99-10	5.07-10	8.09-11	1.66-13	1.45-18	3.35-23	2.48-10	1.39-10
1.63-09	9.93-11	3.02-11	8.03-11	7.37-14	1.58-17	1.66-29	4.69-10	2.60-10
1.49-09	2.56-09	4.48-10	9.04-11	1.33-12	6.41-17	1.93-21		
3.17-10	1.40-09	1.47-10	3.26-11	1.08-12	3.80-17	1.92-21	3.90-10	1.10-10

PHI 135 TO 180 DEGREES

4.68-11	2.65-10	2.80-11	4.25-11	4.35-14	2.32-17	1.34-25	5.89-11	2.93-11
6.39-10	3.65-10	7.32-11	9.68-12	4.83-14	6.39-17	1.72-27	5.30-11	1.82-11
7.04-10	2.67-09	7.77-11	9.90-12	3.30-13	5.56-18	1.56-23	3.47-10	1.66-10
5.49-10	2.85-10	9.06-11	1.09-11	1.10-12	1.89-16	1.94-25	6.48-11	2.52-11
7.37-10	5.03-10	1.45-10	4.08-12	1.43-13	4.61-18	5.50-25	4.34-10	3.71-10
8.40-11	3.96-10	7.39-10	1.94-12	2.69-13	3.11-17	1.93-23	1.55-10	8.69-11
5.58-10	1.29-09	4.06-10	9.62-12	1.74-14	1.08-17	6.29-23	1.52-10	5.75-11
7.47-10	8.61-09	9.67-10	8.58-11	1.12-14	1.29-17	2.59-23	1.75-10	8.53-11
8.46-10	1.42-10	3.07-10	3.04-12	4.41-14	7.16-18	4.22-27	1.77-10	8.75-11
9.70-11	2.52-10	1.38-10	1.34-12	9.67-14	3.54-18	1.64-31	1.96-10	1.73-10
1.16-09	3.79-09	6.70-10	3.81-11	5.53-13	9.03-17	3.51-23		
2.32-10	2.21-09	2.61-10	2.48-11	2.63-13	4.86-17	2.36-23	3.67-10	8.76-11
							5.12-08	5.69-09

AIR SCATTERING 6.40 02 ENERGY 6.00-01 ANGLE 1.35 02 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	0.	0.	0.	4.79-06	0.	0.	0.
4.00 01	0.	0.	0.	0.	1.59-06	0.	0.	0.
6.00 01	0.	0.	0.	0.	1.35-07	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	6.01-07	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	0.	0.	0.	3.05-06	1.32-09	6.15-10	1.24-09
4.00 01	0.	0.	0.	1.52-13	1.24-06	3.36-09	2.49-09	5.22-09
6.00 01	0.	0.	0.	2.16-12	1.09-07	1.60-09	7.62-09	1.69-09
8.00 01	0.	0.	0.	0.	7.58-09	1.27-08	1.34-09	2.00-09
9.00 01	0.	0.	0.	0.	1.09-09	3.45-09	1.51-09	1.04-09
1.00 02	0.	0.	0.	0.	8.78-11	2.89-08	3.70-09	1.06-09
1.20 02	0.	0.	0.	0.	6.14-12	2.63-09	4.01-10	5.73-10
1.40 02	0.	0.	0.	0.	0.	3.25-09	6.36-10	3.47-10
1.60 02	0.	0.	0.	0.	0.	1.33-09	2.14-09	5.06-10
1.80 02	0.	0.	0.	0.	0.	0.	2.36-10	1.10-10
	0.	0.	0.	6.01-13	4.31-07	1.28-08	4.53-09	2.84-09
	0.	0.	0.	5.74-13	4.99-08	5.96-09	1.24-09	6.70-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	1.55-09	5.84-09	6.45-10	1.52-09
4.00 01	0.	0.	0.	0.	9.02-09	6.71-09	1.20-09	9.40-10
6.00 01	0.	0.	0.	0.	1.64-09	4.66-09	1.59-08	1.51-09
8.00 01	0.	0.	0.	1.47-11	2.94-11	3.47-09	5.25-09	1.05-09
9.00 01	0.	0.	0.	0.	6.56-12	2.01-09	2.03-09	3.15-09
1.00 02	0.	0.	0.	5.92-11	1.14-10	3.53-09	5.81-10	5.37-10
1.20 02	0.	0.	0.	1.07-11	0.	1.53-09	2.00-09	1.64-09
1.40 02	0.	0.	0.	0.	0.	4.15-10	7.40-10	9.06-10
1.60 02	0.	0.	0.	0.	0.	5.36-13	1.27-09	3.37-10
1.80 02	0.	0.	0.	0.	0.	3.07-12	5.70-09	9.73-10
	0.	0.	0.	1.86-11	2.13-09	5.46-09	8.06-09	2.83-09
	0.	0.	0.	1.19-11	1.21-09	1.20-09	3.99-09	5.89-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	2.88-10	4.26-09	1.86-10	6.61-10
4.00 01	0.	0.	0.	0.	7.86-12	4.94-09	5.03-10	1.29-09
6.00 01	0.	0.	0.	0.	2.78-13	7.43-09	1.12-09	1.23-09
8.00 01	0.	0.	0.	0.	4.04-11	2.82-09	3.36-09	5.17-10
9.00 01	0.	0.	0.	4.60-11	9.07-11	3.42-09	4.38-10	6.84-10
1.00 02	0.	0.	0.	0.	1.44-12	1.01-09	7.30-10	1.16-09
1.20 02	0.	0.	0.	0.	4.25-11	6.74-10	1.84-09	1.87-09
1.40 02	0.	0.	0.	0.	0.	1.25-12	2.99-09	8.95-10
1.60 02	0.	0.	0.	0.	1.13-11	0.	1.06-09	6.93-10
1.80 02	0.	0.	0.	0.	6.41-13	0.	1.80-09	1.09-09
	0.	0.	0.	7.99-12	6.38-11	5.00-09	3.38-09	2.12-09
	0.	0.	0.	7.29-12	2.59-11	1.68-09	8.50-10	4.32-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	3.93-10	2.51-08	1.58-11	9.53-10
4.00 01	0.	0.	0.	0.	3.25-11	5.22-09	1.56-10	1.03-09
6.00 01	0.	0.	0.	0.	0.	4.69-09	1.91-09	5.73-10
8.00 01	0.	0.	0.	0.	0.	2.15-10	3.00-09	2.37-09
9.00 01	0.	0.	0.	0.	0.	1.07-09	2.76-08	4.11-10
1.00 02	0.	0.	0.	0.	9.63-13	4.82-10	4.93-09	1.47-09
1.20 02	0.	0.	0.	0.	4.95-11	2.58-11	1.45-09	2.26-10
1.40 02	0.	0.	0.	0.	3.84-11	0.	2.16-10	6.50-10
1.60 02	0.	0.	0.	0.	0.	1.28-12	2.72-10	5.80-10
1.80 02	0.	0.	0.	0.	0.	5.02-12	1.76-10	1.82-09
	0	0.	0.	0.	5.59-11	4.02-09	7.75-09	1.94-09
	0.	0.	0.	0.	3.06-11	1.56-09	4.54-09	5.72-10

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AIR SCATTERING	6.40 02	ENERGY	6.00-01	ANGLE	1.35 02	DIST.	1.52 02	
5.40 01	1.73 03	0.	0.	5.66 04	5.00 01	1.80 03		

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
0.	0.	0.	0.	0.	0.	0.	2.39-07	
0.	0.	0.	0.	0.	0.	0.	7.96-08	
0.	0.	0.	0.	0.	0.	0.	6.74-09	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							3.01-08	

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
7.13-10	6.57-11	3.09-10	9.11-12	2.38-13	2.90-15	1.31-26	1.53-07	3.37-08
9.40-10	1.04-09	4.54-10	2.60-11	2.51-13	3.05-15	4.29-25	6.22-08	8.52-09
1.21-09	7.25-10	1.41-09	1.16-10	7.77-14	2.59-16	9.44-23	5.81-09	3.62-10
8.69-10	3.15-10	1.63-10	5.06-12	1.29-12	2.13-16	1.92-24	8.63-10	3.85-10
8.75-10	1.44-09	1.88-10	3.10-11	1.13-14	2.95-17	1.91-26	3.03-10	1.22-10
9.94-10	9.24-10	1.41-10	3.87-11	7.16-14	4.89-15	7.51-29	1.04-09	7.99-10
9.14-10	9.83-10	4.20-10	2.21-11	1.19-13	4.28-16	1.82-27	1.35-10	3.70-11
6.51-10	1.53-10	1.64-10	8.21-11	2.01-13	1.14-16	1.12-24	1.40-10	6.78-11
4.08-10	1.07-10	2.86-10	7.78-12	2.15-13	8.59-18	1.96-22	1.28-10	5.41-11
1.13-09	5.51-09	4.49-10	1.23-10	1.70-16	5.56-20	8.21-33	9.23-11	5.61-11
1.75-09	1.60-09	8.40-10	8.76-11	6.42-13	1.87-15	6.02-23		
2.88-10	5.19-10	2.76-10	2.44-11	4.50-13	1.17-15	4.23-23	2.22-08	2.51-09

PHI 45 TO 90 DEGREES

5.10-10	7.62-10	1.64-11	6.96-12	1.40-13	2.01-19	3.44-28	3.20-10	1.70-10
6.76-10	4.71-10	5.21-10	9.99-11	1.67-13	1.07-17	2.70-27	7.31-10	3.67-10
2.46-09	8.32-10	1.42-10	2.09-11	3.88-13	1.10-18	3.09-24	7.88-10	4.35-10
1.04-09	9.39-10	2.59-10	8.43-11	5.77-12	4.46-14	1.97-24	3.36-10	1.12-10
1.45-09	3.95-10	3.06-10	3.30-11	1.62-11	2.47-15	3.14-26	2.21-10	6.48-11
2.39-10	1.70-10	7.85-11	4.27-11	2.80-12	5.20-14	4.90-22	1.50-10	4.79-11
3.78-10	3.61-10	2.43-10	3.51-11	3.35-13	7.48-16	9.88-20	1.53-10	3.76-11
7.24-10	3.02-10	1.61-10	1.79-11	2.16-13	4.33-16	1.08-23	7.20-11	2.09-11
6.63-10	2.31-10	1.25-10	1.60-11	1.55-14	5.68-16	2.68-23	6.17-11	2.08-11
1.18-10	6.36-10	9.87-11	8.54-11	9.14-15	4.77-19	3.10-29	2.01-10	1.42-10
1.87-09	1.03-09	4.30-10	8.81-11	5.49-12	2.45-14	3.23-20		
4.62-10	2.08-10	9.70-11	2.43-11	3.14-12	2.21-14	3.23-20	6.22-10	1.42-10

PHI 90 TO 135 DEGREES

2.98-09	3.06-10	1.85-10	4.25-10	9.83-13	3.91-17	3.56-27	2.29-10	6.81-11
7.38-10	8.74-10	9.97-11	1.60-10	3.41-14	1.97-16	1.19-25	2.15-10	9.00-11
3.63-10	6.12-10	2.29-10	8.19-11	9.05-12	1.02-17	1.29-23	2.97-10	1.60-10
6.45-10	1.15-09	1.56-10	1.70-10	1.26-13	1.82-17	2.61-26	2.25-10	8.01-11
1.15-09	1.44-09	2.13-10	1.09-10	2.85-13	3.75-18	1.75-25	1.77-10	8.65-11
5.17-10	1.76-10	2.96-10	1.04-11	2.16-12	4.58-17	8.63-25	9.03-11	3.36-11
1.30-09	6.43-10	1.85-10	5.01-11	2.53-13	1.39-18	2.41-25	1.49-10	4.36-11
3.90-10	2.67-10	3.03-10	1.29-11	3.46-13	1.69-17	1.53-27	1.21-10	4.65-11
2.41-10	8.43-10	9.75-11	3.60-11	1.77-13	4.12-20	1.51-24	6.06-11	2.05-11
7.58-10	7.41-10	7.89-11	4.70-13	2.56-13	8.23-15	6.86-21	9.92-11	5.38-11
1.52-09	1.45-09	3.91-10	1.77-10	3.16-12	5.55-16	4.18-22		
3.33-10	5.03-10	9.84-11	7.74-11	2.65-12	4.88-16	4.14-22	3.48-10	6.20-11

PHI 135 TO 180 DEGREES

6.49-10	2.61-09	1.47-11	1.25-10	1.05-10	6.71-19	5.03-23	8.33-10	5.91-10
1.56-09	7.43-10	2.72-10	3.72-10	5.37-12	6.40-17	1.33-25	2.28-10	1.19-10
2.21-10	9.37-10	4.71-10	8.65-11	1.53-12	1.10-16	1.73-25	2.29-10	9.09-11
2.09-10	2.21-10	6.24-10	1.54-11	3.93-13	9.49-16	1.22-25	1.56-10	7.44-11
6.60-10	2.65-10	1.51-08	1.13-11	2.39-13	2.62-19	1.56-26	1.04-09	7.86-10
2.07-10	1.74-10	6.68-11	2.56-11	1.56-14	1.74-17	3.77-25	1.99-10	9.03-11
2.06-10	9.01-10	1.07-10	4.31-11	2.93-13	1.24-17	1.41-25	6.58-11	2.46-11
3.88-10	2.73-10	7.73-09	3.71-11	1.32-13	3.07-18	2.47-24	1.09-10	7.12-11
1.56-10	5.45-11	1.36-10	5.67-11	2.83-14	1.17-20	2.29-27	2.52-11	1.02-11
3.83-10	1.16-09	1.97-11	1.44-11	3.02-14	2.23-21	2.09-25	6.15-11	3.33-11
8.08-10	1.13-09	5.13-09	1.41-10	8.01-12	3.58-16	3.89-24		
1.26-10	5.52-10	4.66-09	5.26-11	6.78-12	2.58-16	3.07-24	4.75-10	1.53-10
							3.71-08	4.03-09

AIR SCATTERING 6.41 02 ENERGY 6.00-01 ANGLE 1.80 02 DIST. 1.52 02
1.25-03 1.07-02 3.20 01 1.91-06

FIRST COLLISION

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	0.	0.	0.	8.99-06	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	5.42-07	0.	0.	0.

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

	6.00-01	4.50-01	3.50-01	2.50-01	2.00-01	1.50-01	1.40-01	9.00-02
2.00 01	0.	0.	0.	2.22-11	5.74-06	8.54-09	2.97-09	4.83-09
4.00 01	0.	0.	0.	0.	6.37-09	2.23-09	1.86-09	4.35-09
6.00 01	0.	0.	0.	0.	4.72-10	2.64-09	2.40-09	1.03-09
8.00 01	0.	0.	0.	0.	1.18-11	3.80-09	6.79-10	8.61-10
9.00 01	0.	0.	0.	0.	0.	5.35-10	2.53-09	8.70-10
1.00 02	0.	0.	0.	0.	0.	1.22-10	7.75-10	4.22-10
1.20 02	0.	0.	0.	0.	0.	3.97-11	1.01-09	1.09-09
1.40 02	0.	0.	0.	0.	0.	3.49-11	1.02-08	3.32-10
1.60 02	0.	0.	0.	0.	0.	0.	1.63-09	2.68-10
1.80 02	0.	0.	0.	0.	0.	0.	1.24-10	1.81-11
	0.	0.	0.	1.34-12	3.48-07	2.98-09	5.27-09	2.32-09
	0.	0.	0.	1.33-12	4.09-08	7.91-10	1.73-09	5.72-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	1.94-13	2.63-08	3.49-09	1.16-09	3.01-09
4.00 01	0.	0.	0.	0.	5.13-09	7.55-09	3.80-09	3.05-09
6.00 01	0.	0.	0.	0.	2.39-09	5.55-09	3.74-09	1.02-09
8.00 01	0.	0.	0.	7.08-12	1.27-11	9.62-09	3.96-09	5.66-09
9.00 01	0.	0.	0.	0.	0.	1.27-09	2.63-09	4.97-10
1.00 02	0.	0.	0.	0.	0.	2.05-10	2.51-09	6.49-10
1.20 02	0.	0.	0.	0.	3.05-12	3.39-10	1.76-09	6.24-10
1.40 02	0.	0.	0.	0.	0.	0.	5.57-09	6.00-10
1.60 02	0.	0.	0.	0.	0.	0.	2.97-09	7.21-11
1.80 02	0.	0.	0.	0.	0.	0.	2.88-09	1.34-09
	0.	0.	0.	2.32-12	3.12-09	6.50-09	6.66-09	3.51-09
	0.	0.	0.	2.31-12	7.00-10	2.30-09	1.56-09	1.06-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	1.22-12	5.57-08	2.41-09	1.16-09	1.58-09
4.00 01	0.	0.	0.	0.	2.41-08	1.07-09	7.49-10	1.82-09
6.00 01	0.	0.	7.53-12	0.	4.08-10	3.39-09	1.16-09	8.17-09
8.00 01	0.	0.	0.	0.	5.83-11	1.96-09	1.19-09	5.64-10
9.00 01	0.	0.	0.	0.	0.	3.84-10	1.59-10	5.05-10
1.00 02	0.	0.	0.	0.	3.14-10	7.73-10	3.22-10	2.85-10
1.20 02	0.	0.	0.	0.	7.14-11	3.93-10	1.04-09	1.67-09
1.40 02	0.	0.	0.	0.	1.76-11	1.90-09	1.01-09	1.57-09
1.60 02	0.	0.	0.	0.	0.	0.	2.88-09	5.65-10
1.80 02	0.	0.	0.	0.	0.	0.	5.33-10	2.31-10
	0.	0.	2.00-12	7.34-14	7.75-09	2.71-09	2.12-09	3.98-09
	0.	0.	2.00-12	7.33-14	3.52-09	6.63-10	3.46-10	2.08-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	8.22-13	1.67-07	1.10-09	3.49-09	9.69-10
4.00 01	0.	0.	0.	9.43-16	1.86-08	2.00-09	1.66-09	9.93-10
6.00 01	0.	0.	0.	7.62-12	9.12-09	2.76-09	6.68-09	1.22-09
8.00 01	0.	0.	0.	0.	2.86-11	1.68-09	1.66-09	4.00-10
9.00 01	0.	0.	0.	0.	3.86-11	4.47-10	2.82-09	1.89-09
1.00 02	0.	0.	0.	0.	1.67-11	9.03-10	1.24-09	2.51-09
1.20 02	0.	0.	0.	0.	0	7.21-10	8.18-09	6.09-10
1.40 02	0.	0.	0.	0.	0.	3.55-11	1.26-09	4.32-10
1.60 02	0.	0.	0.	0.	0.	6.74-12	8.25-10	2.26-09
1.80 02	0.	0.	0.	0.	0.	0.	9.66-11	5.01-10
	0.	0.	0.	2.08-12	1.57-08	2.18-09	6.68-09	2.18-09
	0.	0.	0.	2.03-12	1.01-08	5.41-10	2.32-09	5.61-10

AIR SCATTERING 6.41 02 ENERGY 6,00-01 ANGLE 1,80 02 DIST. 1.52 02
5.70 01 1.72 03 0. 0. 5.62 04 5.00 01 1.80 03

FIRST COLLISION

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02	
0.	0,	0.	0.	0,	0.	0,	4,49-07
0.	0.	0.	0.	0,	0.	0,	0,
0.	0.	0.	0.	0,	0.	0,	0,
0.	0.	0.	0.	0,	0.	0,	0,
0.	0.	0.	0.	0,	0.	0,	0,
0.	0.	0.	0.	0,	0.	0,	0,
0.	0,	0.	0.	0,	0.	0,	0,
0.	0,	0.	0.	0,	0.	0,	0,
0.	0,	0.	0.	0,	0.	0,	0,
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	2.71-08

MULTIPLE COLLISIONS

PHI 0 TO 45 DEGREES

7.00-02	5.00-02	4.00-02	3.00-02	2.30-02	1.80-02	1.40-02		
1,27-09	1,40-09	5.24-11	6.98-12	8,34-14	2.73-20	2,59-28	2,88-07	3,39-08
7.96-10	1,35-09	3.85-10	2.34-11	5,57-13	2.70-19	8,67-27	5,62-10	1,28-10
1.99-09	5,70-10	1.81-09	6.35-11	5,06-12	4.91-16	2,21-26	2,59-10	5,27-11
1,66-09	1,94-09	1.16-09	3.42-10	2,08-12	5,55-18	1,23-24	2,19-10	6,97-11
1,16-09	4,04-10	1.38-10	5.85-12	4,68-13	7.42-15	1,85-25	1,38-10	6,08-11
6.49-10	2,41-10	9.80-11	4,60-12	8,14-13	2,87-16	1,05-23	5,18-11	1,95-11
7.56-10	2,62-10	1.26-10	5,76-11	2,37-13	7.40-15	1,55-21	7,26-11	2,43-11
2.70-10	5,20-10	1.58-10	4.82-11	8,28-14	2.02-16	9,33-24	3,27-10	1,83-10
2.22-09	1,93-10	6.47-11	8.98-11	2,32-13	6.74-19	1,04-24	1,02-10	5,54-11
6.20-11	1.75-09	9.29-11	1.40-11	6.34-15	8.95-21	1.80-23	2.38-11	1.84-11
2.31-09	1,58-09	1.07-09	1.83-10	2,49-12	3.94-15	5,10-22		
6.08-10	5.91-10	6.02-10	1.09-10	1.36-12	3.70-15	5.04-22	1.78-08	2.05-09

PHI 45 TO 90 DEGREES

1.72-09	2,68-09	1.38-10	1.87-11	6.00-14	1.24-19	3,37-28	1.58-09	4,40-10
1.28-09	1.78-09	3.76-10	1.36-11	1.18-13	3.59-18	4,80-26	7.05-10	2,98-10
7.72-10	3.98-10	5.63-10	6.38-12	8.06-14	4.05-17	5,10-25	4,44-10	1,26-10
1.44-09	1,32-09	1.92-10	2.77-11	1,24-13	1.10-17	1,89-24	5.65-10	2,11-10
1.08-09	4,26-10	2.04-09	8.64-12	3.70-14	7.48-16	1.51-22	1.73-10	5.99-11
1.73-09	3,86-10	4.78-10	6.67-12	3,35-12	1.04-15	8,66-26	1,38-10	4,41-11
1.68-09	6,72-10	7,34-11	1.39-11	1,18-12	3.93-18	1,70-25	1,17-10	3,06-11
7.88-10	1.14-10	7.88-11	1.58-11	2,62-13	1.99-19	2,67-25	1.99-10	8,77-11
4.62-10	4.00-11	2.21-10	6.04-11	1,05-11	7.89-19	3,30-27	1.03-10	4,80-11
3.56-10	6.33-11	2.63-10	3.84-13	4.62-13	1.45-20	3.59-25	1.24-10	8.53-11
2.35-09	1,41-09	8.23-10	3.62-11	2,97-12	3.27-16	2,72-23		
5.45-10	3,56-10	2.78-10	1.23-11	1.48-12	2.00-16	2.63-23	6.90-10	1.08-10

PHI 90 TO 135 DEGREES

4.64-10	1,25-09	1.64-10	1.13-11	2,66-13	8.11-18	1,18-25	2,95-09	1,22-09
9.87-10	6,84-10	2.06-10	2.55-11	3,36-13	9.48-19	7,91-27	1,32-09	9,24-10
1.04-09	1,84-09	1.68-10	4.89-11	3,15-13	3.88-17	5,61-27	3,62-10	1,63-10
5.77-10	5,55-10	1.36-10	9,54-12	3.29-13	1.11-16	6,87-24	1,27-10	3,33-11
3.46-10	2,22-09	2,59-10	2,84-11	4,25-14	7.52-16	8,10-22	5,83-11	1,85-11
5.36-09	8,89-11	3.96-10	3,34-11	4,52-15	1.91-17	2,67-23	1,66-10	1,01-10
2.28-09	6,88-10	1.12-10	3,64-12	3,38-13	1,50-18	1,01-24	1,33-10	3,96-11
8.66-10	1,95-10	4.80-11	2,56-11	3,17-13	2.45-18	9,52-20	1,40-10	5,04-11
5.58-10	4,74-10	3.78-10	1.50-11	2,86-14	3.73-19	9,30-22	1,17-10	4,17-11
2.73-10	1.15-10	7.20-11	4.96-10	6.25-15	4.09-17	2.20-38	3.14-11	1.20-11
2.74-09	1,63-09	3.68-10	7.25-11	4,74-13	1.85-16	2,56-20		
1.04-09	4.53-10	8.60-11	2.95-11	2.19-13	1.37-19	2.55-20	6.88-10	1.84-10

PHI 135 TO 180 DEGREES

2.70-09	9.50-10	7.19-11	6.23-12	9,09-14	1.62-18	7,99-28	8.55-09	7,47-09
1.31-08	9.35-10	2.83-10	1.28-11	1,07-12	2.88-18	4,44-27	1.33-09	6,87-10
6.95-10	5.71-10	4.05-10	6.87-11	6,17-13	1.52-17	1,31-25	7.88-10	4,79-10
1.33-09	5,10-10	6.48-11	2.91-11	4,64-14	5.56-17	9,67-25	1.42-10	4,13-11
1.77-09	7,93-11	5.82-11	1.89-11	2,26-14	3.31-18	1,07-25	1,75-10	6,95-11
1.13-09	6,56-10	4.07-11	1.37-11	4,73-13	6.68-19	9,20-25	1,45-10	4,71-11
7.12-10	4,69-10	1.39-10	1.25-11	1,54-13	3.71-18	1,21-21	3,09-10	1,67-10
2.97-10	2,37-10	2.58-10	8.88-12	7,18-13	2.43-18	9,40-29	5,86-11	1,61-11
1.54-09	1,26-09	1.52-09	5.08-11	5,02-13	9.02-16	8,03-21	1,29-10	4,30-11
1.23-10	1.04-09	3.66-10	3.97-11	7.70-14	3.29-17	5.48-26	2.98-11	1.14-11
4.15-09	1,16-09	6.00-10	5.37-11	7,90-13	1.84-16	1,79-21		
2.48-09	2,23-10	2.52-10	1.70-11	3.60-13	1.46-16	1.43-21	1.20-09	5.18-10
							3.19-08	3.67-09