UNCLASSIFIED

CENTRAL RESEARCH LIBRARY
DOCUMENT COLLECTION

MARTIN MARIETTA ENERGY SYSTEMS LIBRARIES
3 4456 0250711 5

ORNL-2292
Volume 2
Physics and Mathematics

Cy. 11

A MONTE CARLO CALCULATION OF AIR-SCATTERED GAMMA RAYS

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

CENTRAL RESEARCH LIBRARY
DOCUMENT COLLECTION
LIBRARY LOAN COPY
DO NOT TRANSFER TO ANOTHER PERSON
If you wish someone else to see this document, send in name with document and the library will arrange a loan.

OAK RIDGE NATIONAL LABORATORY
OPERATED BY
UNION CARBIDE NUCLEAR COMPANY
Division of Union Carbide Corporation
UCC
POST OFFICE BOX X · OAK RIDGE, TENNESSEE

UNCLASSIFIED

LEGAL NOTICE

This report was prepared as an account of Government sponsored work. Neither the United States, nor the Commission, nor any person acting on behalf of the Commission:

A. Makes any warranty or representation, express or implied, with respect to the accuracy, completeness, or usefulness of the information contained in this report, or that the use of any information, apparatus, method, or process disclosed in this report may not infringe privately owned rights; or

B. Assumes any liabilities with respect to the use of, or for damages resulting from the use of any information, apparatus, method, or process disclosed in this report.

As used in the above, "person acting on behalf of the Commission" includes any employee or contractor of the Commission to the extent that such employee or contractor prepares, handles or distributes, or provides access to, any information pursuant to his employment or contract with the Commission.

UNCLASSIFIED

ORNL-2292
Volume 2

Copy No. _____

Contract No. W-7405-eng-26

APPLIED NUCLEAR PHYSICS DIVISION

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

OAK RIDGE NATIONAL LABORATORY
Operated by
UNION CARBIDE NUCLEAR COMPANY
Division of Union Carbide Corporation
Post Office Box X
Oak Ridge, Tennessee

UNCLASSIFIED

MARTIN MARIETTA ENERGY SYSTEMS LIBRARIES

3 4456 0250711 5

*Wright Air Development Center

ORNL-2292
Volumes 2- 5
Physics and Mathematics*

INTERNAL DISTRIBUTION

1. Biology Library
2. Health Physics Library
3. Central Research Libr[redacted]
4. E. P. Blizard
5. C. E. Clifford
6. F. L. Keller
7. F. C. Maienschein
8. S. K. Penny
9. D. K. Trubey
10. C. D. Zerby
11. W. Zobel
12. H. Goldstein (Consultant)
13. R. Aronson (Consultant)
14. Laboratory Records, ORNL-R.C.
15-25. Laboratory Records Department
26. M. J. Skinner

EXTERNAL DISTRIBUTION

27-28. Argonne National Laboratory
29. Armed Forces Special Weapons Project, Washington
30. Armed Services Technical Information Agency, Dayton
31. Atomic Energy Commission, Technical Library
32. Atomics International
33. Battelle Memorial Institute
34. Boeing Airplane Company
35. Brookhaven National Laboratory
36-37. Consolidated Vultee Aircraft Corporation
38. Convair - General Dynamics
39-41. General Electric Company (ANPP)
42. Knolls Atomic Power Laboratory
43-44. Lockheed Aircraft Corporation
45. Los Alamos Scientific Laboratory
46. National Advisory Committee for Aeronautics
47. National Bureau of Standards (Library)
48. Nuclear Development Corporation of America
49. University of California Radiation Laboratory, Berkeley
50. University of California Radiation Laboratory, Livermore

*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.

TABLE OF CONTENTS

	Page No.
Index to the Problems	iv
Preface	vii
Abstract	ix
Introduction	x
Geometry	xi
Description of the Data Tables	xv
Cautions	xvi
Tables of Data (Volumes 2 and 4)	1-257
Tables of Data (Volumes 3 and 5)	258-515

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

INDEX TO THE PROBLEMS (Continued)

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	

UNCLASSIFIED
2-01-059-271

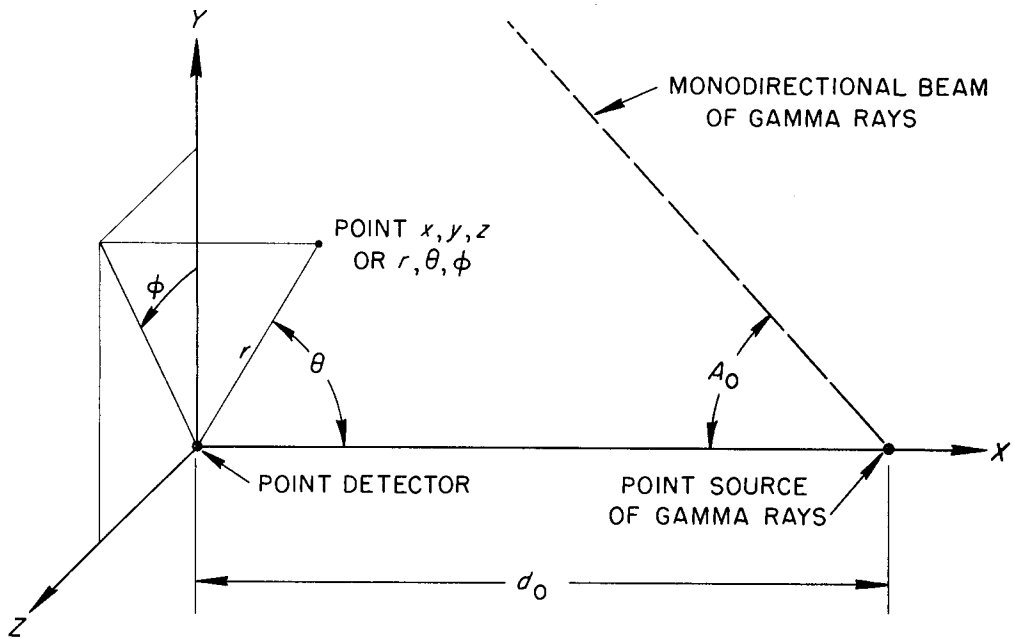

Fig. 1. Geometrical Relationship of Source and Detector.

UNCLASSIFIED
2-01-059-272

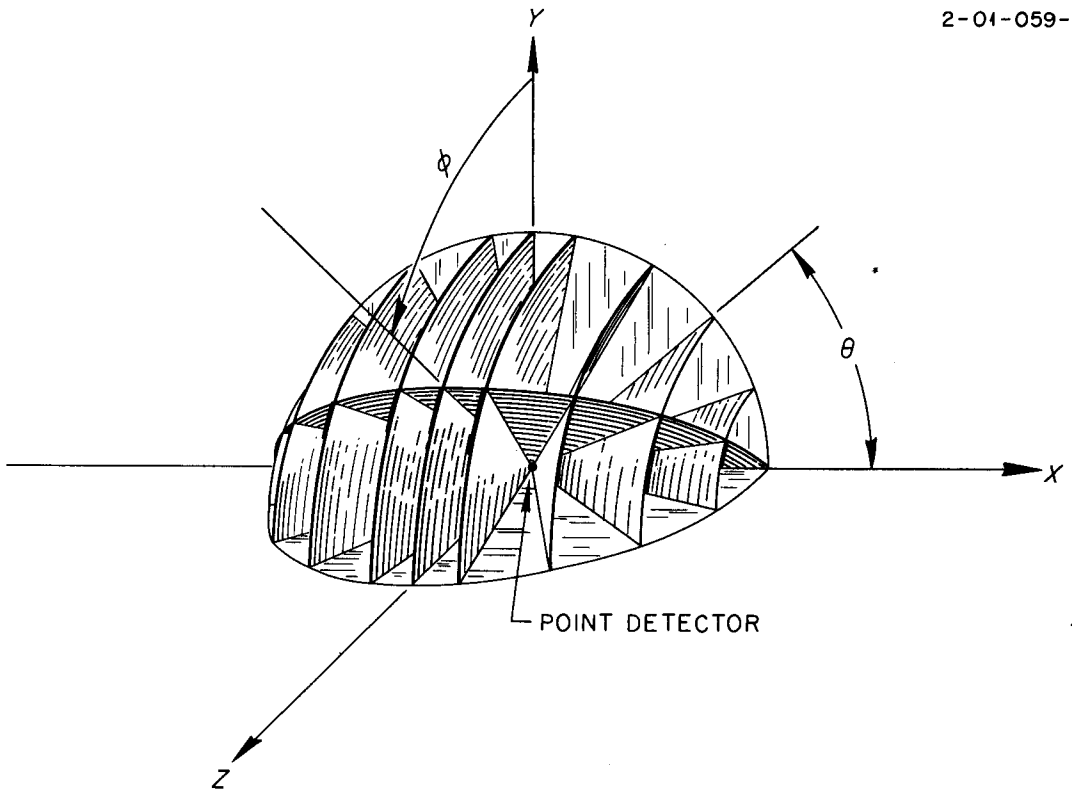

Fig. 2. The Spacial Grid System at the Detector.

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.

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 $(x'_{\varepsilon\theta 1})/\Delta E_\varepsilon \; \Delta \cos\theta_\theta$. 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.

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

C.CC-CC $\sum_\theta (x'_{\varepsilon\theta 1})/\Delta E_\varepsilon$. 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 $(x_{\varepsilon\theta\phi})/\Delta E_\varepsilon \; \Delta \cos\theta_\theta \; \Delta\phi_\phi$. 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 $\sum_\theta (x_{\varepsilon\theta\phi})/\Delta E_\varepsilon \; \Delta\phi_\phi$ 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.

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

α.αα-αα 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.

```
AIR SCATTERING S.SS-SS      ENERGY T.TT-TT    ANGLE U.UU-UU    DIST. Y.YY-YY
W.WW-WW X.XX-XX Y.YY-YY

                                   FIRST                    COLLISION
                E1      E2      E3      E4      E5      E6      E7      E8
θ     A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA
θ1    A.AA-AA                                                         A.AA-AA
θ2    A.AA-AA                                                         A.AA-AA
θ3    A.AA-AA                                                         A.AA-AA
θ4    A.AA-AA                                                         A.AA-AA
θ5    A.AA-AA                                                         A.AA-AA
θ6    A.AA-AA                                                         A.AA-AA
θ7    A.AA-AA                                                         A.AA-AA
θ8    A.AA-AA                                                         A.AA-AA
θ9    A.AA-AA                                                         A.AA-AA
θ10   A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA
      C.CC-CC C.CC-CC C.CC-CC C.CC-CC C.CC-CC C.CC-CC C.CC-CC C.CC-CC

                                   MULTIPLE                COLLISIONS
                                   PHI      0     TO     45     DEGREES
                E1      E2      E3      E4      E5      E6      E7      E6
θ     F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF
θ1    F.FF-FF                                                         F.FF-FF
θ2    F.FF-FF                                                         F.FF-FF
θ3    F.FF-FF                                                         F.FF-FF
θ4    F.FF-FF                                                         F.FF-FF
θ5    F.FF-FF                                                         F.FF-FF
θ6    F.FF-FF                                                         F.FF-FF
θ7    F.FF-FF                                                         F.FF-FF
θ8    F.FF-FF                                                         F.FF-FF
θ9    F.FF-FF                                                         F.FF-FF
θ10   F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF
      1.11-11 1.11-11 1.11-11 1.11-11 1.11-11 1.11-11 1.11-11 1.11-11
      J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ

                                   PHI     45     TO     90     DEGREES
θ     F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF
θ1    F.FF-FF                                                         F.FF-FF
θ2    F.FF-FF                                                         F.FF-FF
θ3    F.FF-FF                                                         F.FF-FF
θ4    F.FF-FF                                                         F.FF-FF
θ5    F.FF-FF                                                         F.FF-FF
θ6    F.FF-FF                                                         F.FF-FF
θ7    F.FF-FF                                                         F.FF-FF
θ8    F.FF-FF                                                         F.FF-FF
θ9    F.FF-FF                                                         F.FF-FF
θ10   F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF
      1.11-11 1.11-11 1.11-11 1.11-11 1.11-11 1.11-11 1.11-11 1.11-11
      J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ

                                   PHI     90     TO    135     DEGREES
θ     F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF
θ1    F.FF-FF                                                         F.FF-FF
θ2    F.FF-FF                                                         F.FF-FF
θ3    F.FF-FF                                                         F.FF-FF
θ4    F.FF-FF                                                         F.FF-FF
θ5    F.FF-FF                                                         F.FF-FF
θ6    F.FF-FF                                                         F.FF-FF
θ7    F.FF-FF                                                         F.FF-FF
θ8    F.FF-FF                                                         F.FF-FF
θ9    F.FF-FF                                                         F.FF-FF
θ10   F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF
      1.11-11 1.11-11 1.11-11 1.11-11 1.11-11 1.11-11 1.11-11 1.11-11
      J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ

                                   PHI    135     TO    180     DEGREES
θ     F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF
θ1    F.FF-FF                                                         F.FF-FF
θ2    F.FF-FF                                                         F.FF-FF
θ3    F.FF-FF                                                         F.FF-FF
θ4    F.FF-FF                                                         F.FF-FF
θ5    F.FF-FF                                                         F.FF-FF
θ6    F.FF-FF                                                         F.FF-FF
θ7    F.FF-FF                                                         F.FF-FF
θ8    F.FF-FF                                                         F.FF-FF
θ9    F.FF-FF                                                         F.FF-FF
θ10   F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF
      1.11-11 1.11-11 1.11-11 1.11-11 1.11-11 1.11-11 1.11-11 1.11-11
      J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ

NNNNNNNNNNNN      PPPPPPPPPPPP
```

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

```
AIR SCATTERING S.SS SS      ENERGY T.TT TT    ANGLE U.UU UU,    DIST. V.VV VV
α.αα αα β.ββ ββ             γ.γγ γγ δ.δδ δδ   ε.εε εε

                                   FIRST                    COLLISION
                E9      E10     E11     E12     E13     E14     E15
      A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA B.BB-BB
      A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA B.BB-BB
      A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA B.BB-BB
      A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA B.BB-BB
      A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA B.BB-BB
      A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA B.BB-BB
      A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA B.BB-BB
      A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA B.BB-BB
      A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA A.AA-AA B.BB-BB
      D                                                       D.DD-DD
      C.CC-CC C.CC-CC C.CC-CC C.CC-CC C.CC-CC C.CC-CC C.CC-CC

                                   MULTIPLE                COLLISIONS
                                   PHI      0     TO     45     DEGREES
                E9      E10     E11     E12     E13     E14     E15
      F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF G.GG-GG H.HH-HH
      F.FF-FF                                                 F.FF-FF G.GG-GG H.HH-HH
      F.FF-FF                                                 F.FF-FF G.GG-GG H.HH-HH
      F.FF-FF                                                 F.FF-FF G.GG-GG H.HH-HH
      F.FF-FF                 F.FF-FF                         F.FF-FF G.GG-GG H.HH-HH
      F.FF-FF                                                 F.FF-FF G.GG-GG
      F.FF-FF                                                 F.FF-FF G.GG-GG H.HH-HH
      F.FF-FF                                                 F.FF-FF G.GG-GG H.HH-HH
      F.FF-FF                                                 F.FF-FF G.GG-GG H.HH-HH
      F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF G.GG-GG H.HH-HH
      1.11-11                                                 1.11-11
      J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ K.KK-KK M.MM-MM

                                   PHI     45     TO     90     DEGREES
      F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF G.GG-GG H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                 F.FF-FF G.GG-GG         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      1.11-11 1.11-11 1.11-11 1.11-11 1.11-11 1.11-11 1.11-11
      J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ K.KK-KK M.MM-MM

                                   PHI     90     TO    135     DEGREES
      F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF G.GG-GG H.HH-HH
      F.FF-FF F.FF-FF                                                 H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      1.11-11 1.11-11 1.11-11 1.11-11 1.11-11 1.11-11 1.11-11
      J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ K.KK-KK M.MM-MM

                                   PHI    135     TO    180     DEGREES
      F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF F.FF-FF G.GG-GG H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      F.FF-FF                                                         H.HH-HH
      1.11-11 1.11-11 1.11-11 1.11-11 1.11-11 1.11-11 1.11-11
      J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ J.JJ-JJ K.KK-KK M-MM-MM
                                                              Q.QQ-QQ R.RR-RR
```

V.VV-VV SOURCE-DETECTOR SEPARATION DISTANCE, s_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.

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.

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 = 100 ft

AIR SCATTERING 1.00 02 ENERGY 1.20 01 ANGLE 1.00 DIST. 3.05 03
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	2.76-07	1.24-07	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	4.71-08	4.32-08	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	4.25-08	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	4.53-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	1.04-07	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	5.61-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.82-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	8.21-08
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.68-07
	1.67-08	7.45-09	8.18-09	7.50-09	1.13-08	1.48-08	1.81-08	5.28-08

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	1.76-07	7.86-08	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	3.00-08	2.75-08	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	2.71-08	0.	0.	1.86-10
8.00 01	0.	0.	0.	0.	0.	2.89-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	6.63-08	1.20-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.57-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.43-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	5.23-08
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.07-07
	1.06-08	4.74-09	5.21-09	4.77-09	7.21-09	9.42-09	1.15-08	3.37-08
	1.77-09	2.74-09	3.68-09	4.77-09	7.20-09	9.41-09	1.15-08	1.43-08

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.	2.33-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.31-14
1.80 02	0.	0.	0.	0.	0.	0.	2.23-13	3.19-12
	0.	0.	0.	0.	0.	0.	1.34-14	2.65-13
	0.	0.	0.	0.	0.	0.	1.34-14	1.35-13

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.	2.03-11	4.28-14
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.75-13
1.60 02	0.	0.	0.	0.	0.	0.	8.56-14	5.30-12
1.80 02	0.	0.	0.	0.	0.	0.	2.74-15	4.91-12
	0.	0.	0.	0.	0.	0.	6.64-12	1.33-12
	0.	0.	0.	0.	0.	0.	6.62-12	6.35-13

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.	1.34-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	4.14-11
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.	6.54-15	2.72-12
1.60 02	0.	0.	0.	0.	0.	0.	2.31-15	6.12-13
1.80 02	0.	0.	0.	0.	0.	0.	5.89-12	9.31-13
	0.	0.	0.	0.	0.	0.	3.57-13	5.00-11
	0.	0.	0.	0.	0.	0.	3.55-13	3.81-11

05521171540 1 23227200761 1

AIR SCATTERING 1.00 02 ENERGY 1.20 01 ANGLE 1.00 DIST. 3.05 03

3.00 01	1.76 03	0.	0.	4.62 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.	1.69-06
0.	0.	0.	0.	0.	0.	0.	1.26-07
0.	0.	0.	0.	0.	0.	0.	2.77-08
0.	0.	0.	0.	0.	0.	0.	1.99-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	2.71-08
0.	0.	0.	0.	0.	0.	0.	8.42-09
0.	0.	0.	0.	0.	0.	0.	5.72-09
0.	0.	0.	0.	0.	0.	0.	1.23-08
0.	0.	0.	0.	0.	0.	0.	2.52-08
0.	0.	0.	0.	0.	0.	0.	
							1.50-07

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.	1.05-10	1.48-11	8.61-11	1.67-12	3.27-14	9.28-23	1.08-06	1.85-07
1.73-11	3.79-10	1.73-10	1.76-11	5.09-13	1.14-14	5.01-25	8.09-08	4.61-08
1.99-11	2.17-09	3.56-11	7.88-11	5.23-12	6.45-13	1.39-23	1.78-08	1.76-08
2.19-10	3.00-10	1.46-11	8.22-11	3.03-11	9.89-15	6.28-19	1.27-08	1.27-08
8.84-11	1.13-10	5.32-11	3.25-11	1.36-11	3.10-14	8.98-25	1.76-11	6.53-12
1.04-10	3.89-11	2.27-11	1.11-10	8.47-11	7.19-14	1.11-22	1.73-08	1.72-08
1.29-09	1.08-10	2.41-10	1.01-10	5.67-11	1.82-13	4.55-20	5.49-09	5.36-09
2.11-10	7.42-11	5.63-11	5.81-10	8.30-11	1.40-12	7.68-18	3.69-09	3.64-09
4.73-10	4.30-10	3.95-10	6.03-11	2.07-10	1.38-14	1.43-20	7.93-09	4.27-09
9.87-10	1.54-10	5.84-11	1.10-10	2.34-11	2.63-15	9.70-29	1.61-08	3.80-09
7.33-10	9.12-10	2.24-10	2.86-10	1.07-10	6.31-13	2.27-18		
3.41-10	5.37-10	6.89-11	1.36-10	4.61-11	3.34-13	2.05-18	9.58-08	1.54-08

PHI 45 TO 90 DEGREES

0.	7.59-10	3.78-10	5.41-12	4.71-12	2.56-14	4.96-25	5.94-11	3.49-11
0.	7.72-11	1.58-10	5.77-11	4.25-12	5.32-14	6.81-26	1.18-11	4.21-12
3.80-11	2.48-10	1.36-11	1.38-11	2.78-11	4.80-14	7.02-25	1.96-11	9.91-12
7.23-13	3.63-11	7.56-11	6.19-11	1.52-11	1.23-13	3.15-23	6.68-12	1.77-12
6.31-11	1.95-10	1.92-11	5.77-11	1.19-11	1.29-12	5.49-21	1.96-11	8.15-12
2.86-11	7.52-11	1.28-10	2.76-11	4.88-12	2.89-13	3.67-20	1.24-11	4.25-12
2.39-10	3.50-11	1.93-10	1.36-10	3.89-11	8.12-14	9.92-20	3.44-11	1.41-11
6.19-10	1.25-10	1.72-10	6.98-11	2.45-10	2.56-13	3.94-18	7.47-11	3.36-11
1.42-10	8.10-10	5.76-10	1.91-10	1.24-11	3.16-14	1.52-19	8.69-11	3.53-11
5.29-10	5.19-11	1.50-10	3.92-11	2.75-11	4.22-14	2.82-25	5.80-11	1.64-11
3.25-10	3.72-10	3.22-10	1.47-10	9.78-11	4.41-13	1.11-18		
1.10-10	1.06-10	1.05-10	3.69-11	5.25-11	2.50-13	1.07-18	6.83-11	1.36-11

PHI 90 TO 135 DEGREES

0.	2.19-09	7.76-11	5.08-11	1.14-12	7.82-14	3.56-23	1.36-10	7.29-11
7.84-12	7.33-11	5.22-11	2.15-11	2.81-11	2.10-13	5.31-23	7.92-12	3.38-12
5.96-12	5.44-11	2.65-11	3.59-11	1.54-11	5.32-12	7.11-25	5.89-12	2.08-12
3.06-11	1.50-10	1.26-10	2.02-11	3.03-11	2.94-13	1.23-22	1.74-11	6.57-12
2.05-11	1.58-10	1.21-10	5.33-11	9.70-11	6.57-15	1.08-17	1.84-11	7.96-12
3.55-11	3.67-10	1.11-10	9.76-11	3.92-10	8.97-13	3.07-18	3.74-11	1.44-11
3.47-10	1.24-10	9.75-11	1.82-10	6.72-11	3.32-13	3.47-24	5.28-11	1.91-11
3.98-10	1.11-10	7.17-11	7.76-11	3.24-11	2.35-12	5.22-18	4.75-11	2.30-11
1.33-09	7.68-11	4.55-10	5.03-11	4.30-11	1.48-13	9.60-22	1.43-10	1.03-10
1.49-09	8.32-11	8.33-11	2.77-09	1.10-11	4.34-13	1.86-22	2.10-10	1.34-10
5.63-10	3.88-10	2.37-10	3.07-10	1.43-10	2.49-12	3.80-18		
2.32-10	1.03-10	7.47-11	1.71-10	7.83-11	1.34-12	3.80-18	9.39-11	2.32-11

PHI 135 TO 180 DEGREES

2.78-10	3.66-10	4.02-10	1.43-11	2.29-11	1.02-13	7.60-18	6.22-11	3.24-11
0.	6.45-10	1.68-11	2.89-11	5.03-11	1.20-12	1.74-19	4.08-11	2.43-11
6.32-12	8.24-11	1.73-11	2.48-10	4.93-11	5.96-12	4.89-24	3.30-11	2.07-11
3.24-11	6.10-11	7.39-11	1.64-11	4.58-11	6.79-13	4.84-22	1.65-11	6.98-12
1.96-12	7.09-11	6.07-12	5.92-11	1.15-11	2.32-12	6.17-25	6.26-12	2.28-12
4.53-12	1.11-10	1.35-10	2.62-10	7.03-11	3.74-13	1.83-22	1.93-11	5.45-12
1.49-10	7.61-11	1.69-10	7.98-11	1.97-11	2.75-14	1.88-22	2.62-11	9.60-12
1.34-10	6.46-11	2.24-10	9.45-11	4.54-12	9.31-15	1.54-21	2.68-11	1.02-11
2.02-10	4.02-11	7.87-11	3.80-11	3.11-11	8.91-13	2.94-21	2.49-11	7.20-12
6.18-09	1.17-10	8.73-11	1.46-10	3.57-11	1.21-13	6.36-25	5.72-10	5.04-10
5.22-10	2.64-10	2.14-10	2.00-10	6.76-11	2.86-12	4.89-19		
3.41-10	7.97-11	6.96-11	6.39-11	2.13-11	1.78-12	4.88-19	8.39-11	3.17-11
							1.51-07	2.43-08

AIR SCATTERING 1.01 02 ENERGY 1.20 01 ANGLE 1.50 01 DIST. 3.05 03
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.	7.07-09	8.05-09	4.21-09	0.	0.	0.	0.
4.00 01	0.	0.	0.	1.65-09	3.87-09	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	3.33-09	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	2.83-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	1.88-09	5.83-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.05-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.89-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.78-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.83-09
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.62-10
	0.	4.27-10	4.86-10	5.41-10	6.71-10	8.86-10	1.25-09	2.82-09

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.	4.50-09	5.13-09	2.68-09	0.	0.	0.	0.
4.00 01	0.	0.	0.	1.05-09	2.46-09	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	2.12-09	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	1.80-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	1.20-09	4.77-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.94-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.84-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.77-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.10-09
1.80 02	0.	0.	0.	0.	0.	5.03-16	1.73-13	3.14-10
	0.	2.72-10	3.09-10	3.44-10	4.27-10	5.64-10	7.96-10	1.87-09
	0.	4.25-11	5.80-11	8.31-11	1.14-10	1.50-10	2.00-10	2.31-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	6.48-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.18-10
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.	1.86-11
1.60 02	0.	0.	0.	0.	0.	0.	3.33-14	5.59-12
1.80 02	0.	0.	0.	0.	0.	6.98-14	5.78-14	7.77-11
	0.	0.	0.	0.	0.	4.21-15	9.27-15	4.59-11
	0.	0.	0.	0.	0.	4.21-15	6.32-15	3.23-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	7.79-10	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.	5.06-12	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.89-15
1.40 02	0.	0.	0.	0.	0.	0.	0.	6.59-15
1.60 02	0.	0.	0.	0.	0.	0.	1.92-15	9.49-12
1.80 02	0.	0.	0.	0.	0.	5.78-15	3.30-15	1.22-09
	0.	0.	0.	0.	0.	3.49-16	4.78-11	7.51-11
	0.	0.	0.	0.	0.	3.49-16	4.70-11	7.27-11

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.	5.72-10
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.	9.47-13
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.	1.47-13
1.80 02	0.	0.	0.	0.	0.	0.	4.14-15	2.39-11
	0.	0.	0.	0.	0.	0.	2.50-16	1.54-10
	0.	0.	0.	0.	0.	0.	2.49-16	1.52-10

055211715401 027407134275

AIR SCATTERING 1.01 02 ENERGY 1.20 01 ANGLE 1.50 01 DIST. 3.05 03

1.90 01	1.78 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.	3.60-08
0.	0.	0.	0.	0.	0.	0.	4.17-09
0.	0.	0.	0.	0.	0.	0.	1.46-09
0.	0.	0.	0.	0.	0.	0.	7.35-10
0.	0.	0.	0.	0.	0.	0.	5.77-10
0.	0.	0.	0.	0.	0.	0.	4.58-10
0.	0.	0.	0.	0.	0.	0.	4.34-10
0.	0.	0.	0.	0.	0.	0.	4.16-10
0.	0.	0.	0.	0.	0.	0.	4.25-10
0.	0.	0.	0.	0.	0.	0.	3.92-11
0.	0.	0.	0.	0.	0.	0.	
							4.03-09

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		
8.71-11	1.11-10	6.47-12	4.07-13	8.67-12	1.21-15	7.01-30	2.29-08	2.58-09
2.41-10	2.01-10	5.61-11	8.36-12	2.56-12	3.23-14	5.73-28	2.69-09	5.50-10
3.48-10	5.07-10	7.05-11	5.78-10	7.29-12	1.42-13	1.04-20	1.01-09	2.56-10
4.61-10	1.21-10	3.89-11	2.19-11	7.64-12	1.30-14	9.14-21	5.19-10	1.55-10
2.82-11	8.62-11	8.64-11	5.72-11	1.93-11	2.16-15	1.08-21	3.96-10	1.51-10
1.24-10	7.30-11	6.81-11	5.45-11	2.15-11	6.65-13	1.98-25	3.11-10	1.20-10
5.62-10	8.30-11	3.09-10	9.33-10	7.37-12	1.75-13	5.41-16	3.65-10	7.89-11
8.02-10	5.05-11	4.30-10	7.86-11	8.65-12	1.77-13	3.42-23	3.58-10	5.88-11
5.69-10	1.75-10	1.24-10	8.33-11	1.24-11	1.29-14	1.71-24	3.83-10	4.53-11
7.11-10	2.41-11	1.04-10	8.46-11	3.01-12	4.67-15	7.94-27	1.18-10	2.50-11
8.55-10	3.16-10	3.11-10	5.27-10	1.95-11	2.70-13	1.76-16		
2.09-10	9.68-11	9.48-11	3.29-10	6.86-12	1.16-13	1.76-16	2.70-09	

PHI 45 TO 90 DEGREES

0.	4.69-10	1.55-11	8.22-13	5.66-11	3.57-15	2.32-21	3.93-11	1.76-11
1.13-11	4.24-10	4.57-10	1.77-10	2.31-11	6.71-14	1.01-20	3.55-11	2.13-11
5.03-11	8.09-11	9.65-11	1.03-10	4.75-10	9.08-16	2.20-19	4.02-11	2.20-11
1.88-10	4.87-10	1.30-10	1.38-11	2.30-10	1.37-12	1.14-24	5.46-11	2.79-11
1.26-10	4.47-11	5.31-11	7.32-11	1.34-11	2.64-12	1.09-25	1.67-11	1.02-11
2.06-10	6.58-10	4.19-10	4.12-11	2.56-12	2.26-14	5.40-23	7.41-11	4.24-11
9.44-11	1.12-10	7.22-11	2.14-11	2.02-12	1.96-14	2.27-19	1.84-11	7.93-12
1.64-10	6.46-11	9.75-11	5.78-11	1.04-11	4.66-14	3.51-23	2.64-11	8.19-12
2.45-10	4.99-10	6.41-11	5.01-10	3.46-12	2.14-13	2.39-26	6.72-11	3.02-11
1.57-09	6.21-11	8.15-11	5.57-11	4.33-11	9.90-14	3.92-26	1.61-10	1.28-10
3.46-10	5.10-10	2.96-10	1.95-10	2.18-10	9.85-13	1.34-19		
1.08-10	1.75-10	1.14-10	8.57-11	1.42-10	9.03-13	9.52-20	8.73-11	1.74-11

PHI 90 TO 135 DEGREES

5.29-11	2.44-11	4.03-10	2.56-11	3.04-12	3.32-15	2.62-24	2.24-10	2.03-10
2.12-11	8.61-11	1.57-10	1.07-10	2.57-12	4.38-12	9.96-25	1.54-11	4.45-12
6.75-12	1.10-10	6.53-11	4.57-11	1.74-11	9.01-12	3.34-20	1.19-11	4.79-12
5.24-12	9.24-10	3.56-11	8.10-11	5.93-11	3.77-12	1.39-27	6.01-11	4.93-11
3.27-12	1.84-10	8.24-11	1.74-10	8.26-11	5.34-14	1.75-22	2.10-11	7.71-12
2.12-11	1.28-10	3.01-11	2.17-11	4.72-11	3.24-13	7.52-23	1.19-11	5.21-12
2.46-11	8.97-11	6.52-11	5.42-11	2.34-11	5.79-14	4.65-26	1.16-11	2.79-12
4.91-11	4.85-11	5.74-11	3.02-10	2.81-11	1.96-14	4.14-26	1.71-11	6.30-12
9.00-11	7.92-11	4.18-11	3.34-11	1.71-11	1.64-13	8.17-23	1.68-11	4.40-12
3.04-10	1.43-10	6.80-11	1.37-11	2.96-11	1.48-13	7.98-26	2.22-10	1.81-10
6.07-11	4.66-10	1.48-10	1.97-10	6.70-11	4.52-12	9.39-21		
1.47-11	2.76-10	3.76-11	6.87-11	2.35-11	3.24-12	7.89-21	6.91-11	2.41-11

PHI 135 TO 180 DEGREES

1.00-10	2.06-10	4.07-11	6.62-12	1.65-11	3.81-17	3.06-23	2.32-11	1.30-11
1.07-10	9.94-11	3.30-10	6.70-11	3.58-12	1.27-12	3.73-21	2.91-11	1.11-11
0.	6.55-11	4.37-12	6.00-11	8.02-11	9.34-15	7.84-21	9.25-11	8.58-11
2.14-11	1.82-10	5.54-11	7.40-11	7.08-12	2.93-15	4.29-20	1.67-11	6.89-12
1.72-11	7.60-12	8.43-12	4.72-11	3.23-11	6.02-15	8.16-19	3.92-12	1.82-12
2.43-12	7.52-11	2.09-11	5.37-11	3.58-12	8.17-14	4.99-30	6.97-12	2.95-12
4.11-11	1.37-10	6.63-11	1.28-10	2.32-11	1.15-14	1.55-26	1.78-11	8.36-12
1.01-11	7.12-11	9.94-11	1.42-10	2.12-11	1.33-14	8.43-24	1.25-11	4.40-12
4.93-11	1.73-10	9.07-11	8.62-11	3.60-11	4.27-14	1.44-21	2.07-11	5.99-12
1.84-10	2.74-11	1.17-10	4.32-11	5.84-12	2.11-13	8.17-22	2.71-11	1.40-11
7.08-11	2.16-10	1.55-10	1.87-10	5.13-11	2.66-13	1.59-19		
2.24-11	5.12-11	5.39-11	5.52-11	2.48-11	1.77-13	1.58-19	5.28-11	2.34-11
							4.57-09	3.42-10

AIR SCATTERING 1.02 02 ENERGY 1.20 01 ANGLE 3.00 01 DIST. 3.05 03
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.	2.99-10	4.49-09	3.82-09	0.	0.	0.
4.00 01	0.	0.	0.	0.	5.42-10	2.05-09	0.	0.
6.00 01	0.	0.	0.	0.	0.	2.74-10	1.39-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	7.76-10	5.05-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.42-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.25-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.05-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	8.08-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.02-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	1.80-11	2.71-10	3.25-10	4.28-10	6.23-10	1.20-09

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.	1.90-10	2.86-09	2.43-09	0.	0.	0.
4.00 01	0.	0.	0.	0.	3.45-10	1.30-09	0.	2.62-10
6.00 01	0.	0.	0.	0.	0.	1.75-10	8.84-10	0.
8.00 01	0.	0.	0.	0.	0.	0.	4.94-10	4.56-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	9.03-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.02-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	6.71-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	6.92-10
1.60 02	0.	0.	0.	0.	0.	0.	2.74-14	9.22-11
1.80 02	0.	0.	0.	0.	0.	0.	6.92-15	7.79-13
	0.	0.	1.15-11	1.73-10	2.07-10	2.73-10	3.96-10	9.48-10
	0.	0.	5.72-12	2.93-11	3.95-11	5.22-11	7.02-11	9.78-11

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	2.94-10	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.	4.98-12
1.60 02	0.	0.	0.	0.	0.	0.	8.96-14	3.65-13
1.80 02	0.	0.	0.	0.	0.	0.	3.13-13	8.24-22
	0.	0.	0.	0.	0.	1.77-11	3.45-14	1.39-12
	0.	0.	0.	0.	0.	1.77-11	2.45-14	9.72-13

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.	7.14-11
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.	3.25-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.36-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.19-12
	0.	0.	0.	0.	0.	0.	0.	1.94-11
	0.	0.	0.	0.	0.	0.	0.	1.90-11

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.	1.08-09
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.	4.34-15
1.80 02	0.	0.	0.	0.	0.	0.	0.	5.62-13
	0.	0.	0.	0.	0.	0.	0.	1.87-10
	0.	0.	0.	0.	0.	0.	0.	1.87-10

372333276771 065604675541

AIR SCATTERING 1.02 02 ENERGY 1.20 01 ANGLE 3.00 01 DIST. 3.05 03

2.70 01	1.76 03	0.	0.	4.59 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.	7.50-09
0.	0.	0.	0.	0.	0.	0.	1.25-09
0.	0.	0.	0.	0.	0.	0.	4.82-10
0.	0.	0.	0.	0.	0.	0.	2.78-10
0.	0.	0.	0.	0.	0.	0.	2.13-10
0.	0.	0.	0.	0.	0.	0.	1.88-10
0.	0.	0.	0.	0.	0.	0.	1.58-10
0.	0.	0.	0.	0.	0.	0.	1.21-10
0.	0.	0.	0.	0.	0.	0.	1.53-11
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							1.04-09

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.	6.58-11	5.03-11	6.33-12	5.62-13	1.24-14	2.84-32	4.78-09	6.23-10
1.92-11	4.65-10	1.33-10	6.71-11	1.09-12	4.29-14	2.73-25	8.73-10	1.54-10
1.80-11	3.78-10	5.29-11	2.07-11	1.39-11	4.16-14	9.09-19	3.33-10	6.60-11
2.01-10	1.36-10	6.96-11	6.86-11	4.52-11	7.27-13	3.41-20	2.28-10	4.59-11
2.69-11	1.59-10	5.72-11	7.43-11	5.47-12	7.52-15	3.41-23	1.51-10	3.81-11
1.89-10	8.54-11	9.63-11	3.19-11	2.07-11	6.76-14	1.14-25	1.80-10	4.35-11
3.17-10	2.33-10	2.52-10	2.47-11	6.99-11	1.57-12	1.61-20	1.54-10	2.32-11
3.16-10	3.88-10	6.19-11	9.98-11	2.48-11	1.02-12	2.32-21	1.61-10	2.45-11
6.16-10	3.83-11	7.49-11	1.43-10	8.86-11	2.31-13	1.18-24	7.90-11	3.48-11
8.20-11	5.82-12	1.44-09	1.45-10	1.11-10	1.35-13	7.59-23	6.47-11	4.55-11
4.10-10	4.58-10	2.88-10	1.27-10	7.47-11	1.10-12	2.59-19		
9.04-11	1.36-10	9.22-11	3.74-11	2.58-11	6.04-13	2.42-19	7.71-10	5.39-11

PHI 45 TO 90 DEGREES

0.	1.63-11	1.37-11	1.40-11	4.18-13	1.06-14	1.01-28	1.31-10	1.29-10
4.46-11	2.27-10	7.80-12	6.69-12	1.10-11	1.17-15	7.60-22	1.82-11	1.05-11
2.41-12	1.24-10	5.84-11	1.29-11	6.72-13	8.07-14	1.30-17	1.01-11	3.75-12
9.39-11	4.30-11	6.79-11	6.28-11	1.18-11	1.41-13	1.77-16	1.52-11	4.74-12
1.23-11	5.52-11	4.86-11	5.83-11	8.60-12	3.57-14	2.23-17	7.70-12	2.56-12
1.68-11	3.29-10	6.38-11	5.27-11	3.70-12	1.72-14	6.45-23	2.49-11	1.34-11
8.73-11	8.41-11	1.19-10	6.26-11	2.69-11	5.48-13	2.56-20	1.91-11	5.25-12
5.74-11	5.01-11	1.16-10	5.70-11	6.69-11	7.60-14	8.30-21	1.55-11	3.16-12
3.27-11	1.78-10	3.63-11	1.36-10	3.43-11	1.37-12	8.38-20	1.88-11	8.81-12
6.15-11	7.92-10	9.98-12	5.96-11	1.44-10	4.11-13	7.72-21	5.71-11	4.68-11
9.72-11	2.74-10	1.36-10	1.08-10	4.93-11	5.40-13	6.52-17		
2.21-11	8.90-11	2.69-11	2.76-11	1.39-11	2.79-13	6.13-17	4.14-11	1.04-11

PHI 90 TO 135 DEGREES

7.07-11	3.11-10	6.09-12	7.66-11	1.25-12	7.26-16	1.30-20	2.71-11	1.88-11
1.13-11	1.65-11	5.73-12	6.51-12	1.28-10	5.13-14	7.45-24	4.29-12	2.05-12
3.27-11	4.65-11	4.09-12	6.14-12	2.72-11	4.28-15	6.71-21	1.72-11	1.12-11
1.26-11	2.27-10	1.59-10	1.02-11	1.21-11	1.68-14	4.72-22	2.09-11	1.01-11
4.14-11	2.01-09	1.59-10	4.50-11	2.43-11	1.88-15	6.94-24	1.32-10	1.15-10
7.96-11	1.48-10	2.84-11	5.06-10	1.07-11	8.64-15	2.56-24	2.94-11	1.28-11
9.76-12	7.02-11	3.67-11	4.23-11	4.04-11	4.20-15	1.06-24	8.08-12	2.54-12
2.23-11	9.68-11	1.03-10	1.87-10	1.26-11	8.69-15	1.66-19	1.62-11	8.04-12
9.01-11	3.23-11	9.26-12	3.59-11	8.71-12	3.17-13	2.08-20	1.16-11	4.13-12
1.60-11	2.54-11	8.56-11	6.39-11	5.38-11	1.26-13	1.95-22	8.59-12	3.08-12
6.58-11	5.39-10	1.33-10	1.80-10	6.09-11	8.38-14	5.06-20		
1.89-11	3.39-10	5.89-11	1.12-10	2.66-11	5.19-14	4.44-20	5.12-11	2.11-11

PHI 135 TO 180 DEGREES

0.	2.41-11	4.55-11	2.51-11	4.80-13	9.38-15	4.09-25	3.70-12	2.08-12
2.77-11	1.16-10	2.85-12	8.34-11	3.21-11	7.01-15	1.13-19	1.20-11	4.84-12
1.87-11	6.90-11	3.48-11	1.09-11	1.71-11	1.47-15	2.08-26	7.60-12	2.48-12
7.00-12	5.94-11	3.64-11	4.10-11	5.27-12	1.25-12	2.22-30	6.58-12	2.60-12
1.13-13	3.19-11	7.93-11	5.64-11	3.18-11	1.01-14	4.26-27	6.61-12	2.91-12
7.81-11	2.83-10	5.39-11	4.51-11	1.75-11	1.09-13	1.11-23	1.89-10	1.75-10
6.41-12	1.49-11	5.72-12	1.49-10	9.59-12	5.85-13	1.47-24	5.40-12	2.04-12
2.61-12	8.69-11	7.16-11	1.70-10	8.37-12	2.25-13	7.08-23	1.22-11	5.23-12
7.76-12	2.44-11	5.97-11	1.82-11	1.31-11	7.62-12	9.68-20	5.03-12	1.47-12
1.38-10	4.02-11	1.48-11	2.14-11	2.70-11	2.29-14	4.30-24	1.64-11	1.11-11
3.81-11	1.49-10	7.97-11	1.48-10	2.97-11	2.01-12	3.64-20		
1.52-11	4.93-11	2.37-11	4.50-11	7.61-12	1.39-12	2.53-20	4.73-11	3.05-11
							1.43-09	1.12-10

AIR SCATTERING 1.03 02 ENERGY 1.20 01 ANGLE 6.00 01 DIST. 3.05 03
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.	2.53-09	1.26-09	0.
4.00 01	0.	0.	0.	0.	0.	0.	1.27-09	0.
6.00 01	0.	0.	0.	0.	0.	0.	1.16-10	7.78-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	5.91-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.03-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.88-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	8.46-11
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.	1.52-10	3.28-10	5.47-10

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.	1.61-09	8.05-10	0.
4.00 01	0.	0.	0.	0.	0.	0.	8.09-10	0.
6.00 01	0.	0.	0.	0.	0.	0.	7.41-11	6.62-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	4.53-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.47-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.96-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.01-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.85-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.81-16
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	9.70-11	2.09-10	4.87-10
	0.	0.	0.	0.	0.	1.67-11	2.75-11	5.43-11

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.	5.20-13	0.	6.56-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.50-15
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	1.38-13	1.76-13
	0.	0.	0.	0.	0.	0.	1.38-13	1.75-13

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.	2.35-10
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.	2.41-15
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	7.66-11
	0.	0.	0.	0.	0.	0.	0.	7.65-11

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.	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.

166355111005 103707337701

AIR SCATTERING 1.03 02 ENERGY 1.20 01 ANGLE 6.00 01 DIST. 3.05 03

1.80 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.	1.44-09
0.	0.	0.	0.	0.	0.	0.	3.30-10
0.	0.	0.	0.	0.	0.	0.	1.47-10
0.	0.	0.	0.	0.	0.	0.	8.86-11
0.	0.	0.	0.	0.	0.	0.	6.05-11
0.	0.	0.	0.	0.	0.	0.	4.32-11
0.	0.	0.	0.	0.	0.	0.	1.27-11
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.	
							2.34-10

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			
1.11-10	2.33-10	3.80-11	8.37-12	4.04-11	1.46-14	1.34-31	9.43-10	1.40-10	
1.03-10	1.75-10	3.56-11	2.82-11	2.54-11	3.01-12	2.35-24	2.32-10	3.51-11	
2.25-10	1.48-10	6.25-11	2.63-11	8.06-11	2.06-12	2.64-22	1.52-10	2.63-11	
2.56-10	6.14-11	1.35-10	7.06-11	8.10-12	2.05-13	4.92-26	1.01-10	1.40-11	
5.33-10	9.74-11	4.76-11	1.03-10	7.35-12	7.21-14	3.18-20	1.10-10	3.03-11	
1.06-10	4.35-11	1.06-10	4.03-11	2.97-11	1.24-14	7.40-21	7.68-11	1.86-11	
2.30-10	8.06-11	8.08-11	5.52-10	1.67-11	2.98-13	1.48-20	5.70-11	1.30-11	
8.64-11	3.84-11	5.39-11	5.74-11	1.66-11	3.03-13	4.59-22	1.12-11	2.19-12	
1.87-11	2.98-11	5.10-11	4.31-11	1.15-11	9.78-14	1.32-23	6.33-12	1.56-12	
2.01-10	5.54-12	9.05-11	6.09-12	4.88-13	1.23-13	8.78-23	3.93-12	2.85-12	
3.72-10	1.70-10	1.51-10	2.64-10	4.93-11	1.35-12	1.18-20			
7.58-11	2.76-11	3.23-11	1.63-10	1.68-11	7.38-13	8.15-21	2.26-10	1.66-11	

PHI 45 TO 90 DEGREES

0.	4.24-11	4.77-11	5.20-11	5.27-12	4.78-16	2.79-24	5.59-12	3.00-12	
7.57-11	7.92-11	4.36-11	2.66-11	2.03-11	1.25-12	2.74-27	1.41-11	4.82-12	
1.84-11	4.66-11	8.51-11	1.65-10	1.57-11	5.14-12	2.21-24	1.18-11	5.10-12	
4.21-11	6.15-11	5.10-11	8.08-11	6.68-12	4.57-13	2.03-22	1.14-11	2.81-12	
6.91-12	1.24-11	4.80-11	5.04-11	5.72-12	1.01-13	1.24-20	4.39-12	1.45-12	
1.57-10	5.90-11	7.66-11	4.74-11	2.60-11	8.71-14	1.40-20	2.20-11	1.09-11	
7.57-11	1.11-10	5.20-11	1.55-11	1.83-11	1.14-13	9.26-24	1.60-11	6.98-12	
1.71-11	4.35-11	1.13-11	3.33-11	7.71-11	5.81-14	1.83-25	5.54-12	1.29-12	
8.27-11	6.83-11	1.93-11	1.71-10	3.54-11	5.08-16	3.97-22	1.69-11	7.22-12	
3.15-11	1.79-13	3.59-11	6.26-11	1.50-11	1.09-12	4.07-20	5.87-12	2.45-12	
1.00-10	1.16-10	9.68-11	1.42-10	4.93-11	1.89-12	7.16-21			
2.69-11	2.62-11	2.09-11	5.23-11	1.76-11	1.23-12	3.71-21	2.42-11	3.62-12	

PHI 90 TO 135 DEGREES

9.47-11	2.42-10	4.83-11	3.70-11	1.94-12	3.00-15	6.49-26	2.57-11	1.29-11	
0.	6.09-11	1.15-10	6.24-11	1.64-10	6.95-14	1.09-25	1.18-11	4.10-12	
1.32-11	3.60-11	5.40-11	4.45-11	1.15-11	3.27-14	2.90-23	6.53-12	2.11-12	
1.34-10	3.18-11	2.43-11	3.12-11	1.16-11	4.81-14	4.40-20	5.10-11	4.60-11	
0.	7.85-11	2.51-11	1.84-11	1.44-10	2.33-16	4.31-23	8.28-12	4.92-12	
5.36-13	8.67-12	1.53-11	9.49-12	4.53-12	7.91-15	1.73-19	1.42-12	4.45-13	
6.95-12	3.20-12	5.22-11	4.37-11	4.05-12	2.50-13	3.42-23	3.81-12	1.41-12	
3.72-13	5.82-11	4.76-11	6.87-11	5.91-12	2.14-12	1.16-27	6.99-12	3.81-12	
1.85-10	9.99-13	5.92-11	4.73-12	1.41-11	1.76-13	3.16-21	1.92-11	1.68-11	
0.	3.23-12	1.66-11	1.44-11	5.13-13	3.64-12	2.43-23	1.18-12	4.84-13	
8.77-11	7.72-11	9.32-11	7.42-11	6.67-11	9.40-13	4.50-20			
5.12-11	2.62-11	2.06-11	1.78-11	3.73-11	5.84-13	3.33-20	3.02-11	1.57-11	

PHI 135 TO 180 DEGREES

0.	2.93-11	4.30-11	8.05-11	5.10-11	3.16-14	1.65-24	6.01-12	3.13-12	
5.36-11	1.73-11	5.35-11	7.56-12	3.26-11	2.68-13	1.97-27	8.46-12	5.23-12	
0.	1.05-10	1.34-11	2.41-11	2.27-11	1.97-14	2.58-21	7.72-12	4.24-12	
0.	6.07-11	1.69-11	3.99-12	2.40-11	7.96-14	3.51-23	4.70-12	3.27-12	
0.	9.97-11	4.70-11	2.02-11	2.41-11	7.17-13	7.09-26	8.53-12	6.14-12	
0.	6.24-12	2.25-11	2.82-11	9.66-12	9.10-13	3.81-20	2.02-12	7.74-13	
0.	1.35-11	6.06-11	4.99-11	6.30-12	8.65-13	1.88-25	4.29-12	1.69-12	
1.03-13	6.31-11	1.52-11	1.82-11	2.65-12	1.98-13	3.21-24	4.82-12	3.14-12	
7.79-11	2.65-11	9.70-12	4.10-12	5.79-12	1.29-13	5.95-20	9.14-12	6.05-12	
7.75-16	5.44-13	1.24-11	6.21-13	7.22-12	2.08-18	1.90-29	6.03-13	3.19-13	
2.29-11	9.68-11	5.93-11	4.42-11	3.27-11	7.20-13	1.76-20			
1.46-11	4.39-11	1.99-11	1.30-11	1.30-11	3.95-13	1.23-20	1.16-11	3.28-12	
								4.59-10	3.98-11

AIR SCATTERING 1.04 02 ENERGY 1.20 01 ANGLE 9.00 01 DIST. 3.05 03
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.	1.81-09	1.21-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.10-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	4.78-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.72-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	8.29-12
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.	1.09-10	4.49-10

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.	1.16-09	7.68-10
4.00 01	0.	0.	0.	0.	0.	0.	5.41-11	7.98-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	4.13-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.98-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.25-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	5.64-13
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.09-13
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.	7.91-11	3.64-10
	0.	0.	0.	0.	0.	0.	1.59-11	3.48-11

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.06-10
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.	3.89-13
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.	6.51-12
	0.	0.	0.	0.	0.	0.	0.	6.38-12

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.

065604675541 026213152231

AIR SCATTERING 1.04 02 ENERGY 1.20 01 ANGLE 9.00 01 DIST. 3.05 03

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.	6.53-10
0.	0.	0.	0.	0.	0.	0.	1.65-10
0.	0.	0.	0.	0.	0.	0.	7.17-11
0.	0.	0.	0.	0.	0.	0.	2.58-11
0.	0.	0.	0.	0.	0.	0.	1.24-12
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							9.58-11

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		
3.14-10	1.25-10	1.20-11	5.99-12	1.57-12	7.59-16	8.08-28	4.52-10	6.60-11
1.65-10	5.85-11	1.83-10	2.44-10	1.08-11	2.50-14	1.73-23	1.65-10	2.44-11
2.28-10	2.44-10	7.73-11	5.44-10	3.98-11	2.03-13	6.87-20	1.13-10	2.04-11
1.67-10	1.45-10	7.99-11	1.46-10	3.93-11	1.10-11	2.84-24	6.06-11	8.75-12
9.85-11	7.31-11	3.67-11	8.60-11	2.75-11	6.81-14	1.21-22	2.94-11	4.07-12
3.01-11	5.87-11	1.15-10	7.86-11	4.91-11	9.69-15	9.13-25	1.30-11	2.79-12
7.98-11	6.46-11	1.14-10	8.70-11	1.95-11	3.22-14	1.65-20	1.76-11	5.54-12
1.93-11	1.06-11	1.81-11	5.68-11	7.25-11	1.99-13	1.22-19	5.48-12	1.85-12
2.49-11	1.15-11	3.14-11	6.73-10	7.40-12	1.69-14	9.97-22	2.03-11	1.37-11
2.43-11	2.37-12	1.24-11	3.34-11	1.56-11	8.76-15	1.63-24	3.81-12	2.11-12
2.22-10	1.79-10	1.54-10	4.26-10	6.66-11	3.72-12	5.62-20		
2.85-11	5.74-11	3.13-11	1.65-10	2.12-11	3.45-12	3.17-20	1.23-10	1.06-11

PHI 45 TO 90 DEGREES

3.06-11	6.50-11	1.86-10	8.52-12	6.17-11	2.86-15	3.65-26	3.03-11	1.70-11
7.92-10	6.91-11	5.54-11	1.63-10	4.09-11	1.59-13	6.88-25	8.19-11	6.48-11
9.10-11	4.56-11	1.47-10	5.24-10	3.24-11	6.76-14	1.03-22	2.93-11	9.75-12
1.46-10	2.86-11	9.76-12	3.19-10	3.18-11	1.92-13	6.29-22	2.34-11	1.31-11
3.32-11	1.05-10	1.81-11	6.09-11	3.30-11	4.50-13	1.07-24	1.19-11	4.56-12
1.46-11	7.34-11	1.26-10	7.43-11	9.11-11	7.75-14	3.06-19	1.34-11	5.69-12
3.53-12	6.92-11	1.13-10	1.16-10	1.44-11	6.62-14	2.71-21	1.16-11	4.99-12
2.88-11	1.04-11	2.93-11	9.61-12	1.29-10	5.41-13	2.88-18	6.45-12	2.51-12
1.13-11	2.93-11	3.97-11	2.51-11	2.01-11	3.85-13	3.50-23	5.11-12	1.77-12
0.	0.	3.96-11	7.74-12	7.69-12	1.27-14	1.65-23	1.73-12	1.02-12
2.30-10	9.88-11	1.42-10	3.41-10	9.44-11	4.33-13	8.20-19		
1.31-10	2.47-11	4.45-11	1.55-10	3.61-11	1.52-13	7.67-19	4.24-11	1.28-11

PHI 90 TO 135 DEGREES

8.85-11	4.75-11	2.95-10	2.85-11	1.58-11	2.07-14	3.10-24	2.24-11	9.67-12
1.42-11	7.69-11	2.22-11	6.76-10	2.78-11	5.51-14	3.58-24	2.33-11	1.36-11
0.	4.39-11	1.33-11	1.56-10	2.25-10	5.36-14	2.93-22	1.02-11	4.63-12
2.04-12	2.61-11	1.28-10	3.32-11	3.57-10	1.25-12	1.79-21	1.25-11	5.04-12
0.	6.31-12	2.62-11	2.41-11	1.83-11	8.74-15	1.17-22	2.17-12	7.50-13
3.01-12	5.03-12	1.68-11	8.11-11	2.61-12	5.67-12	8.77-20	3.21-12	1.28-12
6.34-12	3.70-12	6.54-11	3.00-11	1.29-11	2.43-15	3.42-25	4.06-12	1.36-12
0.	1.40-11	3.10-11	4.76-11	5.65-10	3.62-14	9.23-27	1.16-11	8.07-12
1.38-12	1.43-11	9.02-12	2.64-11	4.12-10	7.91-15	6.91-24	8.11-12	5.94-12
0.	4.20-12	3.64-12	3.85-11	1.09-12	1.45-15	8.15-25	1.32-12	7.13-13
1.13-11	4.60-11	1.06-10	2.19-10	4.12-10	1.43-12	1.59-20		
5.21-12	9.38-12	3.18-11	1.04-10	3.30-10	1.07-12	1.52-20	1.90-11	6.21-12

PHI 135 TO 180 DEGREES

3.63-11	4.12-11	1.51-10	5.18-12	8.66-12	5.13-14	3.65-27	1.14-11	5.91-12
0.	2.44-11	3.58-10	2.06-11	9.95-12	3.64-13	4.14-23	1.50-11	8.51-12
0.	3.80-11	5.91-11	2.39-11	4.55-11	7.11-13	9.06-22	5.67-12	1.89-12
0.	7.95-12	8.82-11	8.20-11	9.75-12	3.35-12	1.40-20	5.80-12	2.32-12
0.	9.14-12	1.56-11	1.70-11	2.74-12	4.51-15	1.58-22	1.56-12	6.92-13
1.42-10	5.93-11	2.94-11	2.78-11	5.12-12	4.92-15	8.57-20	1.81-11	1.32-11
0.	1.50-11	4.98-11	1.09-11	7.74-12	1.89-13	3.55-22	3.07-12	1.54-12
0.	1.48-11	2.72-10	3.71-11	1.87-12	8.70-14	1.93-21	1.16-11	8.23-12
0.	1.52-12	2.56-10	1.47-11	1.19-11	2.38-14	1.06-22	9.83-12	8.44-12
1.05-11	2.58-12	2.18-12	1.53-11	2.98-11	3.12-14	1.10-23	1.99-12	1.09-12
2.75-11	4.06-11	2.57-10	6.17-11	2.58-11	1.44-12	2.04-20		
2.47-11	1.23-11	9.19-11	1.97-11	1.24-11	1.11-12	1.58-20	1.60-11	4.48-12
							3.14-10	3.41-11

AIR SCATTERING 1.05 02 ENERGY 1.20 01 ANGLE 1.35 02 DIST. 3.05 03
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.	3.49-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	5.07-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	9.56-13
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.	2.99-10

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.	2.27-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.98-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.44-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.08-12
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.	2.28-10
	0.	0.	0.	0.	0.	0.	0.	1.77-11

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.	5.49-12
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.	9.53-13
	0.	0.	0.	0.	0.	0.	0.	9.52-13

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.	7.01-13
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.25-12
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.	9.19-13
	0.	0.	0.	0.	0.	0.	0.	7.56-13

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.

1123166327 71 06573222 6225

AIR SCATTERING 1.05 02 ENERGY 1.20 01 ANGLE 1.35 02 DIST. 3.05 03
2.30 01 1.77 03 0. 0. 4.45 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.	5.24-10
0.	0.	0.	0.	0.	0.	0.	7.61-11
0.	0.	0.	0.	0.	0.	0.	1.43-13
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							4.48-11

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		
6.74-10	6.65-11	3.28-11	2.78-11	5.37-11	2.55-14	8.66-24	4.08-10	4.83-11
3.37-10	1.42-10	1.21-10	2.58-10	1.88-11	7.02-13	8.34-20	1.24-10	1.87-11
1.21-10	9.71-11	1.62-10	3.55-10	3.59-10	3.09-12	2.83-22	3.86-11	1.02-11
2.18-11	5.94-11	7.40-11	1.32-10	3.72-11	1.49-11	6.76-20	1.10-11	2.55-12
2.09-12	4.16-11	8.03-11	3.39-10	1.25-11	5.84-14	8.39-26	1.45-11	5.53-12
2.80-12	1.43-11	9.30-11	3.01-11	1.99-11	1.85-14	1.06-22	5.48-12	2.33-12
2.06-12	2.25-11	9.38-11	5.44-11	4.97-10	1.93-13	1.22-24	1.37-11	7.51-12
2.75-14	5.10-12	1.97-11	2.25-11	7.04-10	1.01-13	2.90-26	1.21-11	1.04-11
0.	5.79-13	6.22-11	6.30-12	6.54-10	1.03-13	2.99-22	1.22-11	7.97-12
0.	2.01-11	5.27-14	3.28-12	8.21-14	1.39-14	2.82-23	1.29-12	1.21-12
1.41-10	6.71-11	1.67-10	2.73-10	5.83-10	5.94-12	3.67-20		
3.41-11	1.89-11	3.43-11	1.27-10	3.20-10	5.42-12	2.64-20	7.34-11	7.97-12

PHI 45 TO 90 DEGREES

2.29-10	6.03-11	1.01-10	6.97-11	4.59-11	1.88-12	2.40-20	3.02-11	1.03-11
1.62-10	6.96-11	9.92-11	6.93-11	5.10-11	2.03-12	7.00-21	2.54-11	1.01-11
5.32-11	3.94-11	9.23-11	4.70-11	9.43-11	2.23-13	5.26-22	1.39-11	3.16-12
9.56-11	2.42-11	2.09-11	7.00-10	8.76-12	9.05-12	3.59-21	2.79-11	1.56-11
6.66-13	7.74-12	1.03-11	3.40-11	2.53-12	2.13-12	1.01-22	1.77-12	5.59-13
1.66-12	4.74-11	3.04-11	3.84-10	1.52-11	6.04-14	1.26-26	1.35-11	9.02-12
3.36-12	1.29-11	1.66-11	1.55-11	9.77-12	4.87-13	1.51-24	2.19-12	6.35-13
0.	6.32-12	5.49-11	4.15-11	1.29-11	1.93-12	1.27-18	3.56-12	1.78-12
0.	8.32-12	1.42-12	1.05-10	3.97-12	3.53-13	4.78-27	3.14-12	1.79-12
0.	0.	1.18-12	1.72-11	2.01-12	2.21-16	1.94-24	4.86-13	2.41-13
9.19-11	5.10-11	6.21-11	3.64-10	5.01-11	4.59-12	3.41-19		
2.85-11	1.22-11	1.90-11	2.64-10	1.88-11	3.33-12	3.37-19	2.39-11	7.13-12

PHI 90 TO 135 DEGREES

1.55-10	3.84-11	1.98-11	5.86-11	6.83-11	6.44-15	5.21-26	1.94-11	1.10-11
7.10-11	2.96-11	9.71-11	1.38-11	1.57-10	3.10-14	1.62-21	1.44-11	3.76-12
7.12-12	1.58-11	4.32-11	4.96-11	6.28-11	2.33-11	1.87-21	5.59-12	1.18-12
3.31-11	9.59-11	3.75-11	5.59-11	6.46-12	4.97-12	4.86-22	1.19-11	4.46-12
3.91-12	8.28-12	4.31-12	5.35-11	3.39-12	8.36-15	1.54-24	2.34-12	8.41-13
7.34-14	1.79-10	4.92-11	2.05-11	1.35-11	3.37-13	3.71-23	1.32-11	7.90-12
0.	1.08-11	6.12-12	2.61-11	3.16-12	1.51-15	4.14-22	1.54-12	4.86-13
0.	1.03-11	6.90-11	1.23-11	2.10-12	6.57-12	2.18-18	3.49-12	2.44-12
0.	4.35-14	4.11-13	1.08-10	3.69-12	1.25-15	6.76-25	2.65-12	2.48-12
0.	9.73-15	2.42-14	5.61-11	2.25-12	1.01-21	2.65-27	1.38-12	1.20-12
3.51-11	8.17-11	7.15-11	8.41-11	5.56-11	9.63-12	5.81-19		
1.15-11	2.91-11	2.23-11	2.93-11	2.73-11	9.50-12	5.80-19	1.37-11	2.45-12

PHI 135 TO 180 DEGREES

3.26-11	6.07-11	5.11-10	1.54-11	5.50-11	6.76-14	1.51-20	1.87-11	6.66-12
2.95-11	3.84-11	7.07-11	6.27-11	7.10-12	2.37-13	1.51-22	9.12-12	3.13-12
2.81-11	1.48-12	2.32-11	3.31-11	4.73-11	1.23-13	2.54-22	5.20-12	2.10-12
0.	4.48-11	5.21-11	6.44-11	5.80-12	1.62-12	2.03-23	5.97-12	1.93-12
5.56-12	8.52-12	6.73-11	4.15-11	1.00-12	1.23-14	2.56-21	4.45-12	2.21-12
0.	2.35-11	4.86-11	3.78-11	8.44-11	2.63-14	2.29-22	5.33-12	2.73-12
0.	1.22-11	9.74-12	6.49-12	4.60-11	6.98-11	1.44-23	2.56-12	9.87-13
0.	6.20-11	1.43-11	1.92-12	4.74-12	1.45-14	3.58-22	4.35-12	3.21-12
0.	1.10-10	1.32-12	8.33-12	3.33-12	1.59-15	1.19-31	6.91-12	6.49-12
0.	7.80-11	2.38-11	9.99-11	1.24-12	8.90-16	0.	7.78-12	4.08-12
1.55-11	7.63-11	7.65-11	7.16-11	4.96-11	2.34-11	1.60-21		
6.93-12	3.42-11	2.19-11	2.22-11	2.43-11	2.28-11	1.02-21	1.14-11	2.53-12
							1.92-10	2.00-11

AIR SCATTERING 1.06 02 ENERGY 1.20 01 ANGLE 1.80 02 DIST. 3.05 03
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.	3.90-09
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.	2.35-10

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.	2.49-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.40-14
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.	1.50-10
	0.	0.	0.	0.	0.	0.	0.	1.14-11

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.24-12
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.04-12
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.	6.62-13
	0.	0.	0.	0.	0.	0.	0.	4.96-13

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	8.79-12
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.39-12
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.18-12
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.51-13
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.	0.	1.32-12
	0.	0.	0.	0.	0.	0.	0.	6.55-13

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	7.04-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	9.66-15
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.62-13
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.76-14
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.	4.32-12
	0.	0.	0.	0.	0.	0.	0.	3.99-12

2141050005201 024417611275

AIR SCATTERING 1.06 02 ENERGY 1.20 01 ANGLE 1.80 02 DIST. 3.05 03
1.80 01 1.78 03 0. 0. 4.40 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.	5.85-10
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.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							3.53-11

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		
4.01-10	5.96-11	6.84-10	3.35-11	5.28-12	2.89-13	4.61-25	4.39-10	3.78-11
4.01-10	1.43-10	7.70-11	2.99-11	4.11-12	1.02-14	1.90-27	4.82-11	3.28-11
7.92-11	2.47-11	6.06-11	1.06-10	1.51-10	1.56-14	3.97-25	1.56-11	3.92-12
8.64-12	6.10-11	2.89-11	1.39-10	8.18-12	1.04-11	9.99-21	9.02-12	2.59-12
1.58-11	1.68-10	1.14-10	4.15-11	9.13-12	3.48-13	5.30-23	1.67-11	8.97-12
2.66-12	3.38-11	3.38-11	6.58-11	4.17-11	6.98-14	9.66-28	5.69-12	2.34-12
0.	2.28-11	9.31-11	6.20-11	3.67-11	5.81-13	9.12-21	6.76-12	2.86-12
0.	1.89-11	1.05-10	5.03-11	3.09-12	8.80-14	2.10-23	6.17-12	3.46-12
0.	8.17-12	1.61-11	4.79-11	9.58-13	1.88-14	2.20-25	2.23-12	1.16-12
0.	8.57-11	8.88-12	4.49-12	1.02-12	1.19-15	2.58-26	5.59-12	5.15-12
1.21-10	1.09-10	1.68-10	1.42-10	6.57-11	3.70-12	6.25-21		
6.52-11	3.02-11	5.56-11	5.92-11	4.15-11	3.45-12	4.27-21	5.04-11	8.40-12

PHI 45 TO 90 DEGREES

5.26-10	1.16-09	1.58-10	2.22-10	1.32-10	4.83-12	1.32-25	1.30-10	6.65-11
1.66-10	8.84-11	3.09-11	7.84-11	4.26-12	2.78-14	1.29-24	2.37-11	6.19-12
2.38-11	2.07-11	6.37-11	1.26-11	1.33-10	1.34-15	1.23-23	8.04-12	2.46-12
2.29-12	1.02-11	1.24-11	1.81-11	5.91-12	1.77-15	3.56-25	1.79-12	5.13-13
2.95-12	1.02-11	3.68-11	1.54-11	5.01-10	6.74-13	3.98-27	1.01-11	7.48-12
8.38-13	3.51-11	9.01-12	1.58-11	1.22-09	5.82-15	1.07-24	2.12-11	1.84-11
0.	1.32-11	2.83-12	3.20-10	2.25-10	3.85-13	1.04-20	1.19-11	8.16-12
0.	1.03-10	7.19-11	9.74-12	6.58-12	2.29-15	4.66-26	9.08-12	4.01-12
0.	4.77-15	2.69-11	2.85-11	1.12-12	2.90-16	1.14-25	1.67-12	8.24-13
0.	4.52-12	1.13-11	6.02-13	2.18-11	2.37-18	3.45-26	1.02-12	5.05-13
6.81-11	1.34-10	6.98-11	1.54-10	4.22-10	5.41-13	3.40-21		
1.34-11	8.82-11	1.92-11	1.02-10	3.09-10	3.72-13	3.40-21	2.68-11	7.21-12

PHI 90 TO 135 DEGREES

7.64-10	2.62-10	5.14-11	1.55-10	7.72-11	1.27-13	2.20-24	9.25-11	2.78-11
5.50-11	2.66-11	3.52-11	6.74-11	5.23-12	1.23-13	2.03-21	9.87-12	2.36-12
2.82-11	1.33-10	2.89-11	1.99-11	8.64-12	1.34-13	6.89-23	1.59-11	6.77-12
7.64-12	3.75-11	3.63-11	1.74-11	3.31-11	1.58-14	6.80-22	5.16-12	1.36-12
3.66-12	2.72-11	5.20-11	2.87-11	5.01-11	7.80-16	2.98-22	5.33-12	2.32-12
0.	2.30-10	4.08-12	1.06-11	6.85-12	3.82-15	2.18-21	1.43-11	1.37-11
2.28-13	4.35-11	1.87-11	6.71-11	6.49-12	5.09-14	2.76-23	5.01-12	2.38-12
1.16-11	1.10-11	6.11-12	3.63-12	2.36-12	1.98-13	7.98-29	2.05-12	1.15-12
1.51-10	7.77-11	1.07-11	4.84-11	3.32-11	3.33-15	5.24-23	2.03-11	1.82-11
0.	0.	6.25-10	2.82-13	9.00-14	4.45-17	8.83-25	2.25-11	2.25-11
1.06-10	1.43-10	8.58-11	7.01-11	3.71-11	1.40-13	1.04-21		
3.59-11	5.12-11	3.91-11	2.09-11	1.67-11	6.77-14	5.11-22	2.37-11	5.36-12

PHI 135 TO 180 DEGREES

6.50-10	7.15-11	8.49-11	2.69-11	1.73-10	7.61-15	3.71-21	7.97-11	2.10-11
6.85-11	4.18-11	5.60-11	4.26-11	1.89-11	4.26-15	1.86-23	1.20-11	2.48-12
4.32-11	1.46-10	6.98-11	2.18-11	9.40-12	1.29-14	2.47-26	1.59-11	7.26-12
1.50-11	1.27-11	2.75-11	2.29-11	1.17-11	8.78-15	9.60-20	3.83-12	1.00-12
1.57-11	9.04-11	7.01-11	2.05-11	4.60-12	5.37-14	6.62-24	9.92-12	3.86-12
3.04-13	1.72-11	1.41-11	3.47-11	1.54-12	2.10-13	1.36-22	2.42-12	1.08-12
0.	6.59-11	3.06-11	1.12-10	1.27-12	1.10-14	1.84-25	7.77-12	4.37-12
0.	6.45-13	1.82-11	1.97-11	7.25-12	8.29-13	6.91-27	1.28-12	9.19-13
0.	2.23-13	1.32-11	3.74-11	1.51-11	1.23-13	6.28-21	1.61-12	8.46-13
0.	0.	0.	4.13-12	2.08-13	1.51-15	1.54-31	1.02-13	8.53-14
7.03-11	9.50-11	7.41-11	8.05-11	2.61-11	2.99-13	3.27-20		
1.22-11	3.69-11	1.73-11	4.56-11	1.15-11	2.18-13	3.13-20	1.77-11	3.15-12
							1.86-10	2.34-11

AIR SCATTERING 1.07 02 ENERGY 7.00 ANGLE 1.00 DIST. 3.05 03
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	6.89-07	1.70-07	0.	0.	0.	0.	0.	0.
4.00 01	0.	3.27-08	9.58-08	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	5.07-08	8.61-08	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	8.29-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	1.98-07	0.
1.20 02	0.	0.	0.	0.	0.	0.	6.88-08	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.53-07
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.57-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	4.34-07
	4.16-08	1.60-08	1.66-08	1.35-08	2.29-08	2.71-08	5.68-08	9.40-08

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	4.39-07	1.09-07	0.	0.	0.	0.	0.	0.
4.00 01	0.	2.08-08	6.10-08	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	3.23-08	5.48-08	0.	0.	2.46-10
8.00 01	0.	0.	0.	0.	0.	5.28-08	0.	1.62-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.19-10
1.00 02	0.	0.	0.	0.	0.	0.	1.26-07	0.
1.20 02	0.	0.	0.	0.	0.	0.	4.38-08	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	9.73-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	9.97-08
1.80 02	0.	0.	0.	0.	0.	0.	6.33-15	2.78-07
	2.65-08	1.02-08	1.06-08	8.59-09	1.46-08	1.72-08	3.62-08	6.01-08
	4.41-09	5.87-09	7.48-09	8.58-09	1.46-08	1.72-08	2.61-08	2.12-08

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.	2.36-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.59-16
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.81-11
1.60 02	0.	0.	0.	0.	0.	0.	6.27-11	2.82-10
1.80 02	0.	0.	0.	0.	0.	6.06-12	2.98-11	8.22-09
	0.	0.	0.	0.	0.	3.65-13	1.27-11	5.50-10
	0.	0.	0.	0.	0.	3.65-13	1.10-11	2.90-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.41-10	0.
4.00 01	0.	0.	0.	0.	0.	0.	6.35-11	1.11-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	5.22-12
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.07-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.25-14
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.71-16
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.76-10
1.60 02	0.	0.	0.	0.	0.	0.	4.44-13	5.40-11
1.80 02	0.	0.	0.	0.	0.	0.	1.33-10	1.77-09
	0.	0.	0.	0.	0.	0.	2.76-11	5.44-10
	0.	0.	0.	0.	0.	0.	1.54-11	3.69-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	7.61-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.06-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.97-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.42-11
1.40 02	0.	0.	0.	0.	0.	0.	2.52-11	5.00-11
1.60 02	0.	0.	0.	0.	0.	0.	4.79-12	1.31-10
1.80 02	0.	0.	0.	0.	0.	8.63-14	1.48-12	4.22-10
	0.	0.	0.	0.	0.	5.20-15	7.63-12	1.92-10
	0.	0.	0.	0.	0.	5.20-15	7.01-12	8.70-11

232757015205 043247322451

AIR SCATTERING 1.07 02 ENERGY 7.00 ANGLE 1.00 DIST. 3.05 03
2.60 01 1.77 03 0. 0. 4.86 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.	1.98-06
0.	0.	0.	0.	0.	0.	0.	1.54-07
0.	0.	0.	0.	0.	0.	0.	6.99-08
0.	0.	0.	0.	0.	0.	0.	2.49-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	3.56-08
0.	0.	0.	0.	0.	0.	0.	1.24-08
0.	0.	0.	0.	0.	0.	0.	1.53-08
0.	0.	0.	0.	0.	0.	0.	1.57-08
0.	0.	0.	0.	0.	0.	0.	4.34-08
0.	0.	0.	0.	0.	0.	0.	
							1.92-07

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		
5.38-11	3.85-10	1.86-10	1.73-12	2.64-12	3.04-17	0.	1.26-06	2.16-07
2.95-11	8.11-10	2.38-11	1.07-10	7.79-12	2.94-13	4.53-25	9.83-08	5.67-08
2.93-11	6.23-10	3.34-10	3.23-11	1.46-11	6.68-14	6.96-28	4.46-08	3.15-08
3.63-11	9.92-11	1.39-10	8.56-11	8.75-12	8.09-14	8.33-21	1.59-08	1.58-08
5.60-11	8.24-11	9.96-11	5.19-11	7.02-11	3.83-13	3.05-23	6.56-11	5.20-11
3.49-10	3.47-11	1.27-10	6.09-11	2.25-11	4.85-13	1.40-21	2.27-08	2.27-08
2.86-10	5.16-11	3.11-10	1.14-10	4.33-11	1.00-13	7.66-22	7.92-09	7.88-09
8.73-11	1.42-10	5.32-11	7.83-11	3.21-11	2.36-13	3.18-23	9.74-09	7.05-09
2.80-10	2.19-10	1.30-09	6.27-10	7.71-11	1.44-13	4.31-25	1.01-08	5.28-09
5.73-10	1.59-10	1.59-09	2.00-10	2.42-11	6.93-14	3.24-22	2.79-08	6.08-09
2.98-10	4.85-10	6.27-10	2.54-10	6.19-11	3.71-13	3.24-21		
5.77-11	1.70-10	2.28-10	8.23-11	1.81-11	1.34-13	2.97-21	1.23-07	1.96-08

PHI 45 TO 90 DEGREES

0.	2.37-10	3.39-10	1.23-11	2.83-11	2.87-15	1.91-24	2.33-11	1.16-11
2.86-10	9.32-10	1.92-10	1.02-10	5.15-11	8.73-13	5.11-27	7.83-11	3.84-11
2.06-10	7.81-10	3.64-10	3.58-10	4.09-11	1.22-13	2.16-26	7.48-11	3.34-11
4.33-10	9.98-11	5.82-09	8.88-11	2.26-11	1.18-13	8.20-26	2.28-10	1.68-10
2.12-10	8.11-11	9.52-11	6.21-11	4.39-11	7.03-15	6.38-27	2.61-11	9.01-12
2.49-11	1.43-11	4.48-10	1.94-10	1.14-10	1.63-14	4.53-27	2.24-11	8.67-12
3.27-09	1.85-10	2.09-10	3.57-10	8.52-12	1.04-13	1.09-24	2.85-10	2.35-10
4.73-11	4.91-11	2.10-10	7.00-10	2.08-11	2.46-14	2.01-22	2.90-11	1.06-11
1.77-09	4.24-11	9.98-10	1.21-10	7.10-11	9.03-14	2.52-22	2.18-10	1.19-10
7.77-11	2.01-10	7.38-11	3.31-10	1.81-10	1.80-14	2.09-24	8.57-10	4.78-10
1.68-09	5.26-10	2.44-09	5.31-10	8.80-11	2.84-13	9.78-23		
9.95-10	1.87-10	1.71-09	1.89-10	3.08-11	1.78-13	5.40-23	3.08-10	1.02-10

PHI 90 TO 135 DEGREES

0.	1.06-09	1.96-10	1.85-10	1.27-13	2.81-15	2.45-35	8.82-11	4.50-11
4.68-09	1.15-10	4.89-11	2.93-12	6.88-11	1.36-14	1.67-28	4.05-10	3.66-10
1.90-11	2.81-09	8.96-11	1.59-11	3.25-11	3.33-13	4.69-23	1.46-10	1.34-10
3.40-10	4.56-10	9.21-11	3.26-10	1.90-11	3.71-13	2.03-24	6.02-11	2.66-11
6.33-10	3.46-10	5.65-11	2.53-10	2.86-11	2.75-14	1.80-22	2.83-10	2.09-10
8.96-11	2.30-10	2.85-09	5.14-09	3.01-12	3.07-14	4.30-27	2.13-10	1.36-10
3.85-10	6.31-11	1.87-10	1.02-10	7.30-12	1.89-14	2.03-26	4.21-11	2.60-11
3.21-10	8.22-11	1.11-10	2.14-10	6.25-11	1.52-12	2.30-28	5.61-11	2.20-11
2.85-10	1.33-10	1.16-10	1.38-10	1.62-10	3.73-13	4.84-26	4.34-11	9.26-12
8.54-10	1.65-10	4.00-09	9.15-11	1.58-11	1.12-14	8.72-25	4.08-10	1.66-10
1.37-09	1.16-09	9.32-10	1.18-09	8.04-11	6.99-13	4.44-23		
8.13-10	7.21-10	5.30-10	8.88-10	3.04-11	4.25-13	3.32-23	2.81-10	8.85-11

PHI 135 TO 180 DEGREES

3.62-10	7.68-10	6.44-11	9.33-10	3.21-10	1.77-15	1.02-24	1.68-10	8.62-11
7.36-10	5.85-10	2.12-10	1.43-10	1.66-10	5.14-14	1.57-26	9.99-11	5.04-11
5.66-11	8.64-10	1.55-09	4.54-11	2.31-11	1.62-13	1.05-22	1.02-10	5.74-11
2.18-10	4.88-10	1.04-09	9.92-11	2.09-11	1.86-13	7.93-24	7.72-11	3.31-11
4.04-11	2.11-10	1.56-10	2.59-11	4.18-12	2.27-12	3.24-24	5.90-11	4.11-11
5.18-10	1.71-10	1.15-10	2.43-10	9.42-11	5.13-15	3.12-23	5.97-11	2.63-11
9.39-10	1.69-10	9.97-11	1.43-10	2.90-11	9.86-14	2.13-25	9.24-11	6.59-11
9.95-10	1.19-09	5.69-10	1.12-10	3.12-11	1.02-11	4.87-23	1.70-10	8.37-11
5.79-10	1.48-10	2.31-10	2.72-10	5.42-11	4.88-14	3.18-27	8.13-11	2.59-11
5.46-10	1.04-10	2.43-10	1.34-10	3.13-11	8.72-14	9.09-23	1.02-10	2.54-11
1.04-09	1.01-09	1.08-09	3.04-10	1.07-10	3.27-12	5.51-23		
4.86-10	3.78-10	4.89-10	9.61-11	5.22-11	2.02-12	3.31-23	1.96-10	6.38-11
							1.94-07	3.09-08

AIR SCATTERING 1.08 02 ENERGY 7.00 ANGLE 1.50 01 DIST. 3.05 03
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	2.39-09	1.93-08	1.51-08	0.	0.	0.	0.	0.
4.00 01	0.	0.	6.24-10	6.56-09	3.36-09	0.	0.	0.
6.00 01	0.	0.	0.	0.	2.81-09	3.47-09	0.	0.
8.00 01	0.	0.	0.	0.	0.	2.50-09	2.69-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	4.96-09	0.
1.00 02	0.	0.	0.	0.	0.	0.	4.00-09	0.
1.20 02	0.	0.	0.	0.	0.	0.	1.46-09	4.37-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	6.95-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.98-09
1.80 02	0.	0.	0.	0.	0.	0.	0.	6.04-10
	1.44-10	1.17-09	1.02-09	1.14-09	1.33-09	1.74-09	2.91-09	4.52-09

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	1.52-09	1.23-08	9.59-09	0.	0.	0.	0.	0.
4.00 01	0.	0.	3.97-10	4.17-09	2.14-09	0.	0.	3.66-10
6.00 01	0.	0.	0.	0.	1.79-09	2.21-09	0.	7.66-11
8.00 01	0.	0.	0.	0.	0.	1.59-09	1.71-09	3.13-10
9.00 01	0.	0.	0.	0.	0.	0.	3.16-09	4.39-11
1.00 02	0.	0.	0.	0.	0.	0.	2.54-09	8.09-11
1.20 02	0.	0.	0.	0.	0.	0.	9.31-10	3.48-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	5.16-09
1.60 02	0.	0.	0.	0.	0.	0.	6.13-14	5.75-09
1.80 02	0.	0.	0.	0.	0.	1.19-12	5.35-13	1.26-09
	9.19-11	7.42-10	6.48-10	7.25-10	8.47-10	1.11-09	1.85-09	3.79-09
	2.54-11	1.01-10	1.19-10	1.61-10	2.26-10	2.76-10	3.79-10	4.25-10

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.	2.19-10	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.	2.44-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.38-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	4.37-12
1.60 02	0.	0.	0.	0.	0.	7.80-14	8.94-17	9.29-12
1.80 02	0.	0.	0.	0.	0.	0.	1.13-11	8.44-10
	0.	0.	0.	0.	0.	1.35-14	3.86-11	1.36-10
	0.	0.	0.	0.	0.	1.35-14	3.79-11	6.57-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	1.30-10	1.82-10	5.42-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.05-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.62-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	1.41-13	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.03-12
1.40 02	0.	0.	0.	0.	0.	0.	1.96-16	1.80-10
1.60 02	0.	0.	0.	0.	0.	0.	9.86-11	7.40-12
1.80 02	0.	0.	0.	0.	0.	0.	2.87-11	1.60-11
	0.	0.	0.	0.	0.	2.27-11	5.06-11	1.40-10
	0.	0.	0.	0.	0.	2.26-11	3.39-11	7.52-11

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.	7.19-11
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.	4.51-10
1.60 02	0.	0.	0.	0.	0.	0.	4.48-14	3.61-12
1.80 02	0.	0.	0.	0.	0.	1.67-14	1.19-13	2.07-11
	0.	0.	0.	0.	0.	1.01-15	1.50-14	1.34-10
	0.	0.	0.	0.	0.	1.01-15	8.00-15	1.21-10

102746643565 052422403131

AIR SCATTERING 1.08 02 ENERGY 7.00 ANGLE 1.50 01 DIST. 3.05 03

1.90 01	1.77 03	0.	0.	4.83 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.	5.16-08	
0.	0.	0.	0.	0.	0.	0.	6.62-09	
0.	0.	0.	0.	0.	0.	0.	2.16-09	
0.	0.	0.	0.	0.	0.	0.	1.24-09	
0.	0.	0.	0.	0.	0.	0.	8.93-10	
0.	0.	0.	0.	0.	0.	0.	7.19-10	
0.	0.	0.	0.	0.	0.	0.	7.00-10	
0.	0.	0.	0.	0.	0.	0.	6.95-10	
0.	0.	0.	0.	0.	0.	0.	6.98-10	
0.	0.	0.	0.	0.	0.	0.	6.04-11	
0.	0.	0.	0.	0.	0.	0.		
							6.06-09	

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.	6.79-10	1.16-11	1.41-11	3.69-11	1.52-12	2.93-30	3.29-08	3.36-09
4.12-10	6.75-10	1.23-11	8.26-11	3.60-11	9.84-14	5.08-28	4.32-09	7.86-10
3.24-11	1.75-10	2.57-10	5.49-11	7.14-12	2.40-14	2.43-25	1.41-09	3.43-10
2.64-10	1.96-10	1.80-10	1.28-10	1.61-11	1.67-14	4.49-23	8.57-10	2.21-10
1.74-09	3.88-11	1.21-10	4.77-10	8.40-12	1.14-13	6.31-29	7.28-10	2.79-10
5.10-10	8.49-10	9.64-10	1.04-10	8.01-12	2.43-14	1.51-27	5.82-10	1.81-10
4.26-10	1.52-10	1.35-10	3.78-10	1.88-11	2.32-14	1.36-28	5.69-10	1.27-10
5.03-10	4.34-10	8.59-11	6.37-11	8.14-11	1.99-14	1.24-24	5.83-10	8.70-11
5.44-10	1.63-10	2.22-10	2.11-10	6.52-12	4.91-14	9.95-24	6.38-10	6.17-11
1.37-10	1.53-10	2.81-10	1.39-10	5.28-12	4.21-15	9.09-26	1.57-10	2.91-11
9.33-10	6.26-10	4.41-10	3.58-10	4.77-11	1.66-13	1.68-23		
2.77-10	1.35-10	1.71-10	1.21-10	2.14-11	9.60-14	1.47-23	4.07-09	2.73-10

PHI 45 TO 90 DEGREES

3.72-11	4.81-10	5.53-11	[illegible]7-10	1.71-12	8.04-15	2.20-22	2.12-11	9.50-12
5.65-10	1.98-10	8.69-11	3.40-11	6.24-12	6.42-15	1.90-23	9.80-11	5.72-11
1.03-10	3.45-10	4.34-11	5.28-10	6.00-12	2.31-13	2.74-26	3.75-11	1.65-11
9.92-11	4.47-11	1.68-10	1.10-10	3.81-11	3.20-14	4.83-20	1.82-11	5.39-12
9.85-11	7.38-11	1.74-10	5.79-11	8.45-11	3.85-13	3.96-21	1.94-11	6.29-12
3.95-10	2.01-10	4.64-10	4.14-11	2.34-11	1.40-13	1.95-22	6.00-11	2.50-11
5.13-10	1.59-10	1.56-10	1.94-10	4.45-11	4.01-14	2.82-25	8.23-11	3.37-11
9.17-11	7.97-10	4.85-10	2.48-10	1.22-11	1.85-13	3.47-26	6.83-11	3.30-11
3.13-10	1.24-10	3.12-10	1.10-10	1.59-11	1.35-13	4.68-26	4.45-11	1.26-11
8.45-11	3.74-10	2.88-10	4.91-11	1.41-11	2.39-14	5.15-27	1.22-10	4.19-11
4.97-10	5.13-10	4.47-10	3.58-10	5.53-11	2.52-13	1.65-20		
1.55-10	1.99-10	1.27-10	1.39-10	1.53-11	9.54-14	1.65-20	1.08-10	1.98-11

PHI 90 TO 135 DEGREES

1.64-12	3.54-10	6.18-11	2.09-11	1.41-11	9.05-15	1.14-30	2.04-11	1.32-11
1.90-10	8.56-11	1.43-11	9.37-11	2.72-12	1.47-15	1.06-25	9.92-11	5.46-11
6.07-11	1.16-10	3.86-11	3.93-11	3.63-11	3.42-14	1.21-23	2.36-11	1.14-11
7.61-11	5.13-10	1.57-10	4.70-10	2.54-11	4.45-13	1.33-21	6.27-11	2.87-11
1.34-10	9.02-11	1.08-09	2.53-10	6.00-12	1.04-12	1.90-23	5.49-11	3.33-11
4.08-11	1.26-10	6.03-11	5.63-11	5.35-11	2.87-12	5.77-23	1.34-11	4.13-12
1.32-10	1.89-10	1.13-10	9.24-11	1.41-11	2.18-15	2.05-22	2.58-11	7.89-12
2.57-10	2.41-10	1.06-10	8.69-11	1.32-11	9.89-15	4.18-23	5.59-11	2.15-11
3.04-10	2.37-10	5.40-11	5.38-11	4.24-11	2.55-13	2.46-26	5.80-11	1.77-11
1.02-10	3.53-11	8.27-10	2.36-10	1.25-11	6.05-15	3.09-25	4.80-11	2.34-11
2.75-10	4.41-10	3.90-10	3.12-10	4.58-11	8.81-13	5.27-22		
6.62-11	1.59-10	1.64-10	1.05-10	1.21-11	5.12-13	4.40-22	9.33-11	1.93-11

PHI 135 TO 180 DEGREES

0.	1.67-10	4.93-11	8.48-11	1.82-11	6.01-15	6.26-27	1.18-11	6.19-12
2.58-11	6.36-10	6.90-11	2.58-11	4.14-12	1.12-13	2.94-27	4.38-11	2.33-11
3.69-10	2.79-10	2.03-11	4.52-11	6.21-12	2.73-13	2.31-27	4.52-11	2.68-11
1.02-10	1.65-09	1.12-10	5.08-11	1.75-11	2.89-13	2.33-26	9.53-11	7.77-11
4.23-11	4.52-11	3.14-10	3.05-11	3.66-11	3.38-15	4.74-27	1.68-11	8.23-12
2.90-11	2.35-09	4.57-10	2.84-10	1.96-11	9.22-15	9.12-25	1.39-10	1.26-10
4.07-10	6.18-10	5.78-10	5.34-11	1.18-10	5.44-14	3.68-24	8.45-11	5.44-11
4.08-10	6.12-11	5.88-11	2.39-10	1.96-11	2.72-13	1.24-22	8.77-11	5.35-11
4.07-10	1.51-10	2.47-10	1.54-10	9.63-12	2.96-14	5.44-27	5.17-11	1.61-11
4.40-11	7.30-10	1.16-10	9.09-11	1.16-11	1.15-14	4.19-25	4.78-11	2.92-11
4.63-10	1.43-09	4.45-10	2.06-10	6.49-11	2.85-13	3.45-23		
1.86-10	9.15-10	1.41-10	4.82-11	2.34-11	1.34-13	3.31-23	1.41-10	5.34-11
							6.94-09	4.57-10

AIR SCATTERING 1.09 02 ENERGY 7.00 ANGLE 3.00 01 DIST. 3.05 03
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.	4.43-09	9.19-09	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	3.82-09	1.52-09	0.	0.
6.00 01	0.	0.	0.	0.	0.	2.24-09	5.63-10	0.
8.00 01	0.	0.	0.	0.	0.	0.	2.43-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	1.96-09	0.
1.00 02	0.	0.	0.	0.	0.	0.	3.06-10	2.46-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.57-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.96-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.35-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	2.67-10	5.54-10	6.64-10	8.59-10	1.33-09	1.83-09

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.	2.82-09	5.85-09	0.	0.	2.54-10	0.
4.00 01	0.	0.	0.	0.	2.43-09	9.66-10	0.	0.
6.00 01	0.	0.	0.	0.	0.	1.43-09	3.59-10	0.
8.00 01	0.	0.	0.	0.	0.	0.	1.80-09	1.31-11
9.00 01	0.	0.	0.	0.	0.	0.	2.12-09	0.
1.00 02	0.	0.	0.	0.	0.	0.	1.95-10	1.87-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.75-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.56-09
1.60 02	0.	0.	0.	0.	0.	2.34-16	1.04-14	7.08-10
1.80 02	0.	0.	0.	0.	0.	0.	2.17-17	2.46-10
	0.	0.	1.70-10	3.53-10	4.23-10	5.47-10	1.10-09	1.45-09
	0.	0.	3.08-11	5.59-11	7.93-11	9.61-11	2.31-10	1.35-10

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.	4.62-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.19-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.13-12
1.60 02	0.	0.	0.	0.	0.	0.	3.84-12	2.11-11
1.80 02	0.	0.	0.	0.	0.	0.	2.57-13	2.12-11
	0.	0.	0.	0.	0.	0.	6.82-13	1.37-11
	0.	0.	0.	0.	0.	0.	4.88-13	8.36-12

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.	7.07-11
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.	3.54-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	5.01-14
1.60 02	0.	0.	0.	0.	0.	1.24-12	6.92-13	4.81-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	4.99-13
	0.	0.	0.	0.	0.	2.16-13	1.20-13	1.25-11
	0.	0.	0.	0.	0.	2.16-13	7.71-14	1.23-11

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.	3.26-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.40-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.15-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	7.18-13
	0.	0.	0.	0.	0.	0.	0.	9.50-12
	0.	0.	0.	0.	0.	0.	0.	6.64-12

02441761 1275 1627322616 65

AIR SCATTERING 1.09 02 ENERGY 7.00 ANGLE 3.00 01 DIST. 3.05 03
2.30 01 1.77 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.	1.13-08
0.	0.	0.	0.	0.	0.	0.	1.98-09
0.	0.	0.	0.	0.	0.	0.	7.73-10
0.	0.	0.	0.	0.	0.	0.	4.37-10
0.	0.	0.	0.	0.	0.	0.	3.53-10
0.	0.	0.	0.	0.	0.	0.	3.01-10
0.	0.	0.	0.	0.	0.	0.	2.57-10
0.	0.	0.	0.	0.	0.	0.	1.96-10
0.	0.	0.	0.	0.	0.	0.	2.35-11
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.63-09

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.	3.44-10	1.42-11	3.08-11	2.77-12	2.89-15	1.01-28	7.27-09	8.58-10
4.61-10	2.46-10	2.26-11	3.93-11	3.48-12	2.52-14	2.41-21	1.31-09	2.09-10
2.85-10	1.47-11	1.26-10	3.46-10	9.39-13	1.04-14	9.67-27	5.27-10	9.32-11
4.07-10	2.81-10	3.61-10	8.34-11	1.63-11	5.42-14	2.35-24	3.85-10	7.59-11
4.30-10	6.63-10	1.59-10	2.87-11	9.15-12	2.74-13	8.15-26	4.55-10	2.05-10
8.29-10	5.62-10	4.00-10	8.20-11	1.18-09	1.16-12	1.16-24	3.47-10	7.44-11
4.31-10	1.37-10	4.33-10	1.45-10	7.84-11	4.75-13	5.04-24	2.34-10	2.88-11
2.58-10	2.35-10	7.87-10	6.68-11	1.90-11	7.59-14	2.18-23	2.15-10	2.53-11
1.31-10	1.16-10	1.36-10	1.13-10	1.66-11	1.74-14	4.16-31	9.39-11	2.24-11
1.76-10	4.40-11	1.50-10	2.99-11	3.35-11	6.41-15	1.42-28	4.67-11	2.37-11
7.50-10	5.02-10	6.37-10	2.34-10	2.48-10	4.53-13	4.27-22		
1.22-10	1.11-10	2.03-10	9.59-11	1.98-10	1.86-12	4.18-22	1.22-09	8.17-11

PHI 45 TO 90 DEGREES

2.66-10	6.88-11	1.48-10	1.10-10	6.03-12	2.03-15	3.24-31	3.17-11	2.43-11
7.57-11	2.58-10	2.65-11	7.53-11	1.16-11	9.40-16	3.21-24	2.14-11	6.54-12
1.51-10	2.10-10	1.20-10	1.78-09	9.63-12	4.64-14	4.68-23	6.22-11	3.56-11
2.59-10	3.06-10	7.54-10	1.15-10	8.22-12	1.25-14	4.80-24	6.25-11	2.65-11
1.84-09	2.23-11	2.01-11	1.09-10	6.12-11	1.01-14	2.57-24	1.57-10	1.40-10
6.29-11	1.48-10	3.96-11	9.11-12	3.27-10	6.11-14	5.71-23	1.81-11	6.17-12
9.95-11	8.77-11	1.52-10	1.56-10	2.00-12	3.24-14	2.70-22	2.05-11	5.64-12
4.72-11	6.06-11	5.37-10	1.30-10	9.22-12	7.74-14	3.60-24	2.04-11	6.01-12
1.69-10	6.29-11	2.24-10	1.11-10	2.97-11	9.55-13	4.69-23	2.93-11	1.01-11
1.28-09	5.75-11	6.49-11	1.17-11	1.29-11	1.88-15	1.56-27	1.11-10	9.96-11
6.36-10	2.93-10	4.85-10	6.56-10	8.40-11	6.20-14	1.22-22		
3.54-10	7.61-11	2.36-10	4.64-10	5.67-11	2.05-14	9.86-23	9.68-11	3.32-11

PHI 90 TO 135 DEGREES

4.71-11	3.80-10	3.16-10	1.82-10	1.18-12	2.24-16	9.49-34	3.65-11	1.55-11
5.93-11	1.99-10	1.88-10	2.56-09	4.73-12	7.16-15	5.85-21	7.91-11	5.65-11
1.12-10	3.95-10	3.26-11	3.35-11	2.01-12	5.52-14	3.21-22	3.04-11	1.14-11
1.14-10	1.40-10	5.71-11	2.12-11	1.24-11	1.94-12	4.90-24	1.85-11	9.08-12
3.25-11	4.55-10	1.63-09	7.52-11	7.50-11	1.70-14	4.54-24	7.01-11	3.20-11
2.58-11	4.43-11	9.99-11	1.44-11	4.69-12	1.10-13	2.92-32	7.83-12	2.91-12
1.22-09	8.40-11	7.85-11	6.23-11	1.41-11	4.96-14	1.22-20	1.06-10	9.33-11
8.24-11	3.14-11	3.35-11	1.33-10	1.55-10	5.92-14	1.67-24	1.39-11	5.12-12
2.29-10	3.09-10	2.00-11	7.12-11	3.19-12	9.40-14	2.33-23	3.65-11	2.17-11
4.77-11	2.43-11	3.79-11	8.51-11	3.45-11	1.91-15	1.37-29	8.44-12	3.53-12
5.53-10	3.51-10	4.20-10	5.60-10	6.78-11	7.21-13	5.09-21		
3.99-10	8.76-11	2.84-10	4.43-10	4.84-11	6.21-13	3.09-21	8.86-11	3.58-11

PHI 135 TO 180 DEGREES

1.44-10	1.71-10	1.74-08	2.71-11	2.40-12	2.10-19	5.09-33	5.76-10	5.53-10
0.	2.89-10	1.40-10	2.10-11	5.53-12	2.32-15	3.98-22	1.94-11	7.14-12
1.02-10	8.81-11	1.82-10	1.33-11	5.58-11	1.32-14	2.02-24	1.94-11	6.18-12
1.10-10	1.38-10	2.99-10	1.70-10	1.67-11	1.15-14	8.07-28	2.89-11	9.78-12
7.00-10	2.16-11	1.18-11	5.04-11	9.09-12	1.31-13	2.74-22	5.86-11	5.14-11
3.46-11	1.45-10	6.46-11	7.23-11	3.59-11	2.06-13	2.09-23	1.40-11	5.54-12
3.91-11	1.38-11	1.10-11	1.35-11	2.52-10	4.84-12	3.68-22	8.09-12	3.82-12
6.10-12	1.05-10	5.14-11	7.36-12	3.19-11	3.38-13	1.57-24	1.03-11	3.94-12
1.97-10	2.05-11	5.03-10	1.14-10	4.26-12	6.39-15	8.84-23	3.63-11	1.75-11
1.94-10	4.92-12	2.62-11	7.45-11	4.83-12	1.67-17	6.32-30	1.83-11	1.50-11
2.60-10	1.94-10	1.34-09	1.16-10	1.21-10	1.74-12	2.57-22		
1.20-10	4.50-11	1.05-09	3.92-11	7.27-11	1.52-12	1.48-22	7.81-11	3.50-11
							2.34-09	1.73-10

AIR SCATTERING 1.10 02 ENERGY 7.00 ANGLE 6.00 01 DIST. 3.05 03
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.	1.48-09	5.66-09	0.	0.
4.00 01	0.	0.	0.	0.	0.	7.04-10	1.75-09	0.
6.00 01	0.	0.	0.	0.	0.	0.	1.33-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	7.72-11	1.29-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	9.89-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	7.06-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.99-10
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.	8.90-11	4.63-10	6.83-10	7.82-10

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.	9.40-10	3.60-09	0.	0.
4.00 01	0.	0.	0.	0.	0.	5.48-10	1.18-09	0.
6.00 01	0.	0.	0.	0.	0.	0.	8.47-10	2.91-10
8.00 01	0.	0.	0.	0.	0.	0.	4.91-11	1.43-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	8.73-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	7.45-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.04-10
1.40 02	0.	0.	0.	0.	0.	0.	4.36-13	7.10-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	3.16-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	5.67-11	3.12-10	4.46-10	9.77-10
	0.	0.	0.	0.	1.57-11	4.38-11	4.99-11	1.30-10

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.	3.54-10	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.65-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	4.10-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.21-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.83-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.45-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.03-15
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	6.15-11	2.71-11
	0.	0.	0.	0.	0.	0.	6.15-11	1.43-11

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.	9.52-13
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.	2.53-13
	0.	0.	0.	0.	0.	0.	0.	2.53-13

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.

AIR SCATTERING 1.10 02 ENERGY 7.00 ANGLE 6.00 01 DIST. 3.05 03

3.20 01	1.76 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.	2.29-09
0.	0.	0.	0.	0.	0.	0.	5.26-10
0.	0.	0.	0.	0.	0.	0.	2.40-10
0.	0.	0.	0.	0.	0.	0.	1.43-10
0.	0.	0.	0.	0.	0.	0.	9.89-11
0.	0.	0.	0.	0.	0.	0.	7.06-11
0.	0.	0.	0.	0.	0.	0.	1.99-11
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.	
							3.76-10

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		
8.74-11	1.83-10	1.45-10	2.12-11	1.13-11	2.66-16	1.40-29	1.48-09	1.97-10
4.03-10	2.81-10	1.42-10	1.37-11	2.52-11	1.86-12	8.56-23	4.28-10	6.60-11
2.62-10	2.56-10	1.14-10	4.73-11	1.12-11	1.65-12	1.88-26	2.20-10	4.01-11
3.79-10	3.60-10	6.38-10	1.08-10	5.89-11	2.56-13	1.70-25	2.24-10	3.59-11
3.30-10	1.10-10	1.61-09	6.45-10	6.56-11	4.54-14	3.95-21	1.85-10	4.33-11
1.12-10	1.46-10	2.42-10	4.76-11	3.45-11	1.27-13	3.04-22	9.99-11	1.01-11
1.58-10	1.24-10	3.24-10	2.05-10	7.43-11	1.26-13	7.69-20	7.47-11	1.03-11
1.41-10	8.02-11	3.30-10	2.26-10	1.94-11	2.29-13	2.00-22	3.78-11	9.60-12
2.15-10	9.01-11	2.35-10	6.41-11	2.39-11	4.46-14	3.97-21	3.08-11	1.27-11
2.12-11	1.17-11	8.63-11	7.82-10	6.36-11	7.56-17	9.14-19	2.15-11	1.25-11
4.73-10	3.68-10	8.33-10	3.57-10	8.21-11	9.86-13	8.17-20		
5.83-11	6.08-11	2.98-10	1.05-10	2.61-11	7.12-13	6.06-20	3.86-10	2.94-11

PHI 45 TO 90 DEGREES

2.42-10	4.59-10	3.64-11	6.33-11	9.67-12	3.02-14	1.27-32	4.49-11	3.11-11
3.14-10	3.01-10	1.13-10	5.19-11	1.10-10	3.34-14	2.73-21	1.10-10	6.56-11
1.07-10	1.40-10	5.74-11	1.29-10	2.29-11	5.57-12	2.81-22	2.40-11	7.06-12
4.34-11	6.32-11	8.45-11	1.60-10	3.91-11	3.54-13	3.65-23	1.72-11	4.38-12
1.25-10	4.61-11	7.62-11	3.52-11	3.86-11	8.29-14	4.94-23	1.82-11	6.29-12
1.41-10	1.76-10	2.52-10	5.22-11	5.02-11	6.61-13	5.49-26	2.98-11	8.77-12
5.42-11	2.21-11	8.86-11	5.88-11	5.04-11	6.09-11	1.95-24	1.07-11	2.57-12
4.23-11	2.66-10	1.10-10	9.31-11	3.23-11	5.42-13	8.57-22	2.26-11	1.19-11
2.49-10	5.08-11	1.05-10	5.55-11	3.42-11	7.74-13	1.78-21	2.74-11	1.85-11
1.03-11	3.37-12	3.64-11	7.34-10	4.37-11	1.90-15	1.64-27	1.74-11	1.44-11
2.31-10	2.63-10	2.00-10	2.14-10	8.77-11	2.19-11	1.11-21		
5.08-11	7.33-11	3.84-11	5.35-11	2.75-11	1.60-11	6.14-22	5.75-11	1.29-11

PHI 90 TO 135 DEGREES

1.09-14	7.60-10	1.31-10	2.09-11	1.10-12	1.02-13	1.32-30	4.27-11	1.46-11
1.52-10	3.35-10	1.34-10	3.21-11	4.74-12	3.39-14	6.81-23	3.39-11	9.78-12
3.21-11	9.53-11	2.82-11	7.37-11	5.26-11	8.62-16	3.94-25	1.04-11	3.33-12
4.42-11	5.68-12	2.04-11	1.84-10	1.40-11	3.52-13	8.38-26	8.33-12	2.92-12
3.06-10	4.29-11	2.02-10	5.55-11	9.36-12	8.81-14	2.04-22	3.43-11	2.51-11
3.38-11	8.71-12	1.52-10	1.17-10	3.09-11	4.82-14	7.89-24	1.07-11	4.68-12
4.49-11	5.29-11	6.48-11	6.96-11	6.38-12	5.04-12	3.45-22	9.84-12	3.42-12
5.64-12	6.90-10	3.82-11	1.78-10	3.75-11	5.38-11	3.70-28	4.08-11	3.37-11
8.89-12	3.69-10	3.35-11	1.27-10	1.14-11	1.23-13	7.52-29	2.29-11	1.81-11
1.18-12	2.01-12	2.77-11	1.11-10	2.25-10	2.50-16	7.57-30	6.22-12	3.63-12
1.26-10	4.05-10	1.46-10	2.15-10	5.41-11	1.61-11	1.61-22		
5.65-11	1.90-10	4.52-11	6.25-11	1.65-11	1.42-11	1.02-22	4.02-11	1.09-11

PHI 135 TO 180 DEGREES

0.	1.73-10	9.04-11	1.53-10	1.12-10	6.51-15	1.03-23	1.61-11	5.11-12
4.00-11	1.44-10	1.25-10	8.65-11	7.66-12	6.49-13	7.12-28	1.62-11	5.77-12
1.13-10	1.22-10	6.97-11	2.13-10	5.28-12	2.83-15	1.94-26	2.16-11	8.48-12
2.20-11	1.11-10	9.65-11	1.83-09	1.94-11	1.75-13	2.29-27	4.73-11	2.51-11
3.47-12	2.16-10	1.56-11	8.37-11	1.44-09	4.34-13	1.24-25	3.19-11	2.06-11
6.08-12	2.10-11	4.82-11	3.82-11	6.86-11	1.66-11	2.21-25	4.64-12	1.64-12
1.35-11	4.60-11	9.40-11	1.06-10	1.16-11	9.65-13	1.25-22	8.66-12	2.43-12
3.57-12	1.12-11	1.04-10	2.17-10	8.56-12	4.90-11	4.79-24	9.10-12	3.96-12
4.25-11	2.23-11	4.73-11	2.28-11	2.44-11	9.22-13	1.11-25	6.82-12	3.48-12
2.63-11	4.02-13	1.24-11	6.99-11	5.63-12	2.20-14	5.99-30	3.98-12	1.72-12
6.00-11	1.67-10	1.55-10	8.01-10	2.84-10	1.65-11	4.29-23		
2.69-11	4.73-11	4.00-11	4.14-10	2.56-10	1.54-11	3.37-23	3.80-11	9.84-12
							8.19-10	7.08-11

AIR SCATTERING 1.11 02 ENERGY 7.00 ANGLE 9.00 01 DIST. 3.05 03
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.	5.97-09	0.
4.00 01	0.	0.	0.	0.	0.	0.	9.12-10	1.03-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.17-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	4.15-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.85-11
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.	5.19-10	6.29-10

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.	3.80-09	0.
4.00 01	0.	0.	0.	0.	0.	0.	6.27-10	1.20-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.17-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	5.40-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.47-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.21-10
1.20 02	0.	0.	0.	0.	0.	0.	1.68-14	4.49-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	8.56-14
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.	3.38-10	7.43-10
	0.	0.	0.	0.	0.	0.	3.53-11	1.01-10

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.	2.56-10
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.	2.58-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.20-12
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.	0.	6.92-11
	0.	0.	0.	0.	0.	0.	0.	6.10-11

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.	3.79-13
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.48-13
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.	1.05-13
	0.	0.	0.	0.	0.	0.	0.	7.67-14

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.

104212615125 010537712301

AIR SCATTERING 1.11 02 ENERGY 7.00 ANGLE 9.00 01 DIST. 3.05 03
1.80 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.	1.07-09
0.	0.	0.	0.	0.	0.	0.	2.67-10
0.	0.	0.	0.	0.	0.	0.	1.17-10
0.	0.	0.	0.	0.	0.	0.	4.15-11
0.	0.	0.	0.	0.	0.	0.	1.85-12
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							1.56-10

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		
2.63-10	3.71-11	6.23-11	5.91-10	8.77-13	4.06-12	1.68-31	7.21-10	9.14-11
2.62-10	1.52-10	2.84-10	9.46-11	1.81-11	7.44-14	2.52-24	2.72-10	5.04-11
2.64-10	2.49-10	7.48-11	1.84-10	9.46-11	3.48-14	1.05-23	1.58-10	2.63-11
1.63-10	3.81-10	7.14-11	1.36-10	2.16-11	4.29-13	4.91-22	9.14-11	1.35-11
4.06-11	1.43-10	1.33-10	3.45-10	6.96-11	1.26-13	6.08-25	3.72-11	7.32-12
4.58-11	1.30-10	4.74-11	4.86-11	3.16-11	3.05-13	3.42-23	2.51-11	1.01-11
3.15-11	4.28-10	1.89-10	1.24-10	5.90-11	8.39-14	1.31-25	3.36-11	1.91-11
4.57-11	7.82-11	2.89-10	3.23-11	5.80-12	1.46-13	2.21-28	1.75-11	6.51-12
2.88-11	1.31-10	7.90-11	2.05-11	8.47-12	2.31-14	1.57-27	1.19-11	8.06-12
4.91-11	7.74-12	3.21-11	6.00-12	7.27-13	1.18-16	3.14-25	5.47-12	4.06-12
2.30-10	4.50-10	2.82-10	2.67-10	7.53-11	5.52-13	1.69-22		
3.87-11	1.46-10	8.38-11	6.12-11	2.76-11	2.38-13	1.60-22	1.91-10	1.68-11

PHI 45 TO 90 DEGREES

2.23-10	1.66-10	1.42-10	3.77-10	2.64-11	1.07-14	8.50-31	3.85-11	1.42-11
1.51-10	1.17-10	4.26-11	1.25-09	1.98-11	3.24-13	8.18-23	4.46-11	2.52-11
1.37-10	1.03-10	1.03-10	4.55-11	6.06-11	2.02-11	2.05-26	4.69-11	2.35-11
1.88-10	5.68-10	2.00-10	3.23-10	6.04-11	1.97-12	1.86-26	5.71-11	2.82-11
6.03-10	4.90-11	7.91-11	2.76-10	2.05-11	6.18-13	2.40-24	5.90-11	4.60-11
1.97-11	3.40-11	5.20-11	1.12-10	1.53-12	1.12-15	1.21-24	7.19-12	1.68-12
3.53-11	2.27-11	2.20-10	2.56-10	1.12-10	1.86-13	1.53-25	1.76-11	6.50-12
1.93-11	1.75-11	4.81-11	3.58-11	6.75-10	3.71-15	2.35-25	1.38-11	8.53-12
2.83-10	1.79-11	5.52-11	2.53-10	6.52-11	1.08-14	1.15-24	3.12-11	2.11-11
1.56-11	4.46-13	2.60-11	2.49-12	2.37-12	4.93-16	0.	2.18-12	1.13-12
3.12-10	2.73-10	2.27-10	5.62-10	2.72-10	6.23-12	1.52-23		
1.52-10	1.63-10	5.95-11	2.36-10	1.80-10	5.27-12	1.40-23	6.77-11	1.81-11

PHI 90 TO 135 DEGREES

2.32-10	8.67-11	6.52-11	8.76-11	1.77-11	1.33-15	1.51-29	2.70-11	1.04-11
8.32-11	9.23-11	7.93-11	8.87-11	2.61-11	4.64-13	3.48-25	1.59-11	4.89-12
5.33-11	3.36-11	4.15-11	2.51-11	1.59-12	1.13-10	1.64-22	8.93-12	2.83-12
2.37-11	2.54-11	8.27-11	1.12-10	5.23-12	2.16-13	2.10-20	8.11-12	2.17-12
1.49-11	6.48-11	3.60-11	1.15-11	4.04-12	1.63-14	1.95-25	5.87-12	2.01-12
6.59-11	1.69-11	2.98-11	2.30-11	1.20-11	1.95-14	3.46-24	7.72-12	4.99-12
5.89-12	1.59-11	5.23-11	4.58-11	1.53-11	3.44-14	1.75-29	4.05-12	1.56-12
1.11-13	2.15-10	3.49-11	2.04-11	1.65-11	4.64-14	1.79-31	1.25-11	8.77-12
4.24-11	1.18-11	1.67-11	1.66-10	9.35-11	3.16-14	6.75-27	9.06-12	3.49-12
1.27-13	5.15-13	6.02-10	3.13-10	5.29-13	7.11-16	3.35-31	2.56-11	2.01-11
7.37-11	1.17-10	1.33-10	1.38-10	3.62-11	3.02-11	6.90-21		
1.87-11	4.84-11	4.16-11	4.41-11	1.08-11	2.98-11	6.85-21	1.95-11	3.52-12

PHI 135 TO 180 DEGREES

4.75-11	1.73-10	3.48-10	2.49-11	4.60-11	5.11-16	3.54-26	2.47-11	1.20-11
1.03-12	8.80-11	1.98-10	2.12-11	6.02-12	3.53-15	4.63-25	1.13-11	3.22-12
4.20-11	7.60-11	5.28-11	1.88-09	1.17-11	2.83-14	5.70-22	4.65-11	3.72-11
1.14-11	2.92-10	6.76-11	4.78-11	2.76-11	3.75-14	1.35-21	1.90-11	1.39-11
0.	3.16-11	3.76-11	2.75-11	9.90-12	2.71-13	2.11-23	3.46-12	1.30-12
1.97-12	2.54-11	3.94-12	3.73-11	1.76-10	2.41-12	1.12-25	4.61-12	2.47-12
2.17-15	3.62-11	1.12-11	3.91-11	2.13-11	1.78-13	1.29-22	3.23-12	1.21-12
0.	5.13-11	6.41-12	4.94-11	1.89-11	9.08-14	5.60-34	4.01-12	1.90-12
8.97-12	3.69-12	2.31-11	1.83-10	1.30-12	2.60-14	3.25-22	5.41-12	3.34-12
7.60-12	2.79-11	4.06-11	3.21-11	1.66-12	2.22-18	3.44-24	3.97-12	1.75-12
2.05-11	1.79-10	1.11-10	5.91-10	6.06-11	5.73-13	6.96-22		
1.06-11	9.20-11	2.69-11	4.93-10	3.76-11	4.70-13	4.23-22	2.67-11	1.11-11
							4.80-10	5.19-11

AIR SCATTERING 1.12 02 ENERGY 7.00 ANGLE 1.35 02 DIST. 3.05 03
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.	8.73-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.24-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.06-12
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.	0.	7.43-10

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.	6.68-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.40-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.87-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.43-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.61-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.31-13
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.	6.72-10
	0.	0.	0.	0.	0.	0.	0.	5.69-11

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.05-10	3.76-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.57-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.92-12
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.	1.23-11	2.62-11
	0.	0.	0.	0.	0.	0.	1.23-11	1.25-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.10-10
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.	1.27-11
	0.	0.	0.	0.	0.	0.	0.	1.27-11

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.	2.23-12
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.	0.	5.93-13
	0.	0.	0.	0.	0.	0.	0.	5.93-13

01053771230 1 36174600555 1

AIR SCATTERING 1.12 02 ENERGY 7.00 ANGLE 1.35 02 DIST. 3.05 03

2.60 01	1.77 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.	8.73-10
0.	0.	0.	0.	0.	0.	0.	1.24-10
0.	0.	0.	0.	0.	0.	0.	2.06-13
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							7.43-11

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		
4.92-10	1.12-10	3.28-11	1.83-11	3.69-12	2.54-13	1.71-25	7.14-10	8.53-11
2.54-10	1.39-10	1.70-10	6.61-10	1.77-11	9.12-14	4.07-22	1.87-10	2.04-11
1.17-10	2.83-10	1.28-10	6.68-10	1.20-11	3.97-13	4.81-23	4.80-11	1.30-11
5.98-11	4.16-11	2.85-10	3.67-10	1.44-11	8.80-14	1.16-24	2.50-11	8.64-12
1.16-10	1.05-10	7.38-11	3.21-10	1.33-11	3.92-14	3.27-26	2.51-11	1.24-11
1.14-10	2.17-11	3.03-11	5.65-11	2.96-11	7.94-14	4.55-24	1.27-11	5.63-12
2.12-11	5.27-11	1.40-11	5.00-11	1.67-11	7.60-14	6.56-25	6.00-12	1.69-12
9.25-12	6.34-12	2.68-11	4.76-11	1.60-11	2.05-15	9.08-23	3.07-12	1.06-12
6.92-12	1.18-10	1.90-11	2.45-11	5.12-12	6.02-14	1.82-30	7.61-12	5.41-12
6.97-13	8.39-10	1.47-11	8.71-10	8.49-13	8.12-14	1.91-34	5.99-11	4.19-11
1.75-10	2.32-10	1.93-10	5.65-10	2.93-11	2.27-13	1.09-22		
2.81-11	6.75-11	7.52-11	2.50-10	7.19-12	1.01-13	8.65-23	1.11-10	1.02-11

PHI 45 TO 90 DEGREES

4.61-10	3.88-10	1.36-10	4.10-11	1.10-11	5.37-13	8.02-26	1.36-10	6.12-11
2.75-10	9.33-11	8.31-11	4.40-11	1.38-11	1.81-13	4.99-24	3.20-11	9.55-12
6.73-11	8.79-11	4.15-11	1.13-10	1.14-10	2.98-14	5.17-25	1.51-11	3.69-12
1.11-10	5.07-11	8.76-11	1.91-11	7.67-11	3.74-14	5.01-26	1.56-11	7.17-12
1.12-11	1.11-10	7.86-11	1.13-11	1.23-11	5.93-15	8.20-25	9.33-12	4.87-12
4.94-13	1.31-10	4.91-11	2.92-11	2.76-12	1.05-14	1.09-25	8.76-12	4.33-12
2.50-11	8.88-11	7.11-11	4.40-11	6.75-12	9.25-15	3.39-26	9.68-12	4.50-12
8.80-13	4.91-11	1.47-11	3.37-11	2.87-11	1.31-15	1.66-27	4.04-12	1.54-12
3.11-12	2.56-12	1.14-10	1.87-10	1.35-11	7.08-13	2.78-33	7.93-12	4.47-12
0.	2.62-11	1.82-11	1.02-10	1.09-12	5.09-15	2.80-31	3.96-12	2.68-12
1.41-10	1.65-10	1.32-10	1.15-10	7.32-11	2.13-13	1.20-24		
3.98-11	3.81-11	3.06-11	3.19-11	3.89-11	1.27-13	8.79-25	3.19-11	5.38-12

PHI 90 TO 135 DEGREES

1.88-10	4.79-11	1.02-09	3.04-11	1.23-11	4.21-14	1.59-26	7.20-11	3.84-11
5.55-11	5.97-11	4.79-10	8.14-11	1.21-10	2.15-13	2.70-27	2.59-11	1.31-11
5.07-11	4.66-11	1.70-10	1.44-10	3.05-11	5.12-14	1.31-27	1.51-11	5.37-12
4.29-11	2.95-11	1.55-10	1.08-10	1.75-12	8.47-14	1.49-26	1.21-11	5.26-12
6.13-11	8.26-12	4.36-12	1.31-10	6.86-12	4.44-13	3.25-26	8.16-12	4.19-12
3.48-11	7.46-11	7.58-11	9.55-11	1.31-11	5.39-13	8.13-29	1.10-11	4.64-12
3.10-12	2.66-11	7.41-12	6.50-11	2.33-11	1.76-13	4.85-24	3.42-12	1.16-12
0.	2.92-11	5.60-11	2.85-11	5.48-12	4.86-13	1.04-25	3.90-12	1.66-12
1.31-11	9.82-13	1.87-11	1.28-11	1.48-10	2.10-12	2.11-25	3.90-12	1.83-12
0.	7.68-12	0.	4.59-11	7.65-11	1.05-16	2.62-27	2.30-12	1.24-12
6.85-11	6.67-11	2.75-10	1.63-10	7.33-11	8.04-13	1.66-24		
1.88-11	1.86-11	1.04-10	5.13-11	3.22-11	6.40-13	1.34-24	2.31-11	4.95-12

PHI 135 TO 180 DEGREES

1.60-10	1.23-10	3.80-10	2.19-10	4.16-12	1.35-13	1.49-26	3.55-11	1.20-11
8.20-11	3.01-11	5.81-11	5.86-11	5.67-11	1.52-12	2.02-25	1.18-11	3.10-12
3.95-11	3.37-11	1.32-09	6.93-10	5.96-11	3.91-15	7.75-20	6.19-11	5.23-11
2.66-11	1.90-10	1.45-10	4.64-11	9.94-12	2.63-14	4.92-23	1.74-11	9.57-12
6.47-11	1.19-10	9.08-12	5.23-11	2.46-11	1.21-14	3.89-26	1.28-11	7.65-12
2.08-11	3.54-11	8.88-12	1.15-10	5.10-11	4.28-15	4.92-25	6.66-12	2.34-12
1.04-12	2.00-12	5.59-12	2.41-11	1.45-11	8.96-14	5.85-25	1.03-12	3.00-13
0.	2.60-12	5.26-12	5.23-11	1.83-11	1.62-13	5.18-24	1.58-12	5.94-13
0.	1.74-12	2.88-11	6.94-11	9.60-12	2.45-15	3.45-25	2.52-12	1.04-12
0.	3.98-10	3.79-11	4.54-10	1.11-10	7.86-16	0.	3.16-11	2.15-11
5.82-11	1.36-10	4.45-10	3.13-10	6.03-11	3.58-13	2.06-20		
1.69-11	6.63-11	3.32-10	1.77-10	2.12-11	2.20-13	2.01-20	3.28-11	1.49-11
							3.12-10	3.68-11

AIR SCATTERING 1.13 02 ENERGY 7.00 ANGLE 1.80 02 DIST. 3.05 03
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.	9.76-09
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.	5.89-10

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.	6.84-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.23-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.39-14
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.	4.15-10
	0.	0.	0.	0.	0.	0.	0.	3.09-11

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.50-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.80-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	4.81-12
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.	0.	1.57-10
	0.	0.	0.	0.	0.	0.	0.	1.08-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	4.94-21	3.22-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.22-11
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.	1.31-14
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.	2.98-22	2.33-11
	0.	0.	0.	0.	0.	0.	2.98-22	5.88-12

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	5.60-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	6.02-12
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.37-12
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.	0.	3.54-11
	0.	0.	0.	0.	0.	0.	0.	9.68-12

06727251570 1 3126341214 51

AIR SCATTERING 1.13 02 ENERGY 7.00 ANGLE 1.80 02 DIST. 3.05 03

2.20 01	1.77 03	0.	0.	4.65 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.	9.76-10
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.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	5.89-11

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		
1.25-10	1.55-10	4.67-11	6.26-11	2.49-11	1.10-14	5.06-32	7.05-10	5.14-11
1.56-10	5.45-11	1.14-10	3.70-10	1.29-11	3.51-14	2.65-22	2.76-11	5.36-12
2.94-10	4.27-11	1.44-10	9.45-11	1.25-11	5.44-13	1.68-24	3.23-11	1.65-11
4.12-10	4.16-10	2.99-10	5.81-11	4.69-11	2.16-13	7.52-25	6.51-11	2.22-11
4.25-11	4.24-11	6.03-11	7.95-11	1.10-11	3.12-13	2.23-22	9.19-12	3.84-12
4.58-14	6.34-11	8.89-11	4.41-12	4.75-11	2.31-12	5.12-27	6.68-12	2.71-12
1.96-11	1.66-11	4.22-11	1.53-10	3.86-11	1.01-11	2.13-25	7.41-12	2.48-13
2.86-13	7.15-11	1.60-11	4.26-12	9.00-12	1.07-13	1.53-21	4.31-12	2.91-12
0.	2.11-12	7.13-11	8.73-11	1.07-11	1.51-13	7.54-23	4.27-12	2.42-12
0.	0.	9.49-11	2.91-13	9.86-12	6.47-17	2.85-20	3.17-12	2.57-12
2.61-10	2.09-10	2.20-10	1.93-10	5.00-11	4.03-12	2.23-21		
8.54-11	6.08-11	6.09-11	4.67-11	1.59-11	3.36-12	1.75-21	8.44-11	1.04-11

PHI 45 TO 90 DEGREES

2.42-10	2.97-10	6.06-11	1.51-10	2.78-11	1.11-14	5.67-26	2.90-10	1.80-10
2.04-10	3.68-11	8.00-11	9.71-11	2.60-11	1.81-14	8.38-24	2.58-11	5.46-12
3.50-11	1.62-10	4.28-11	2.64-11	3.71-11	4.94-14	2.28-24	1.38-11	4.93-12
1.68-11	2.35-11	2.60-10	2.33-11	1.89-11	8.42-14	1.01-22	1.16-11	8.00-12
7.06-12	1.08-10	2.11-11	4.19-11	9.35-13	3.07-13	3.61-27	7.50-12	3.01-12
1.41-13	3.41-12	7.18-11	3.01-11	2.15-11	3.24-13	2.35-24	3.36-12	1.33-12
4.36-12	4.77-12	4.87-11	2.82-11	4.60-12	6.38-13	1.99-22	2.78-12	1.10-12
0.	1.16-11	5.66-12	8.68-11	2.39-11	1.76-13	5.48-23	2.81-12	1.20-12
0.	4.46-12	2.69-10	3.42-11	4.56-12	1.20-13	1.09-25	9.57-12	7.66-12
0.	1.40-11	1.41-10	5.77-12	7.28-12	8.98-13	3.00-19	5.44-12	4.16-12
6.75-11	1.01-10	2.03-10	9.17-11	3.52-11	4.31-13	1.82-20		
1.39-11	2.99-11	9.11-11	2.42-11	1.06-11	2.42-13	1.81-20	3.49-11	1.17-11

PHI 90 TO 135 DEGREES

2.16-10	2.44-10	1.66-10	1.14-10	1.92-11	8.77-15	9.83-24	6.95-11	1.18-11
1.72-10	6.61-11	2.74-10	3.37-11	1.77-11	4.91-14	3.45-25	2.90-11	5.83-12
5.12-11	4.29-11	3.40-10	3.15-11	5.70-10	8.44-15	4.47-23	2.52-11	1.13-11
4.58-11	2.85-10	5.18-11	4.89-11	7.48-12	1.59-13	2.89-24	2.06-11	1.31-11
2.31-11	6.68-11	3.03-11	4.95-11	1.32-11	2.79-12	1.41-30	7.34-12	2.50-12
6.11-12	4.39-11	3.54-11	1.99-11	3.68-11	2.06-13	3.83-27	4.70-12	1.75-12
1.18-11	1.03-10	7.27-11	1.52-10	6.96-11	5.06-15	1.95-22	1.24-11	5.68-12
2.77-16	4.02-12	2.25-11	2.86-11	1.61-12	2.41-14	1.58-19	1.51-12	7.63-13
0.	1.78-10	6.44-11	1.08-10	4.94-11	4.53-13	1.09-25	1.38-11	8.91-12
0.	3.95-11	3.17-15	1.61-11	1.69-13	1.28-11	2.70-29	2.43-12	1.99-12
8.04-11	2.18-10	2.17-10	1.26-10	1.99-10	1.44-12	4.21-20		
1.69-11	1.17-10	7.44-11	5.11-11	1.49-10	8.99-13	4.20-20	3.17-11	6.98-12

PHI 135 TO 180 DEGREES

1.32-10	1.43-10	5.43-11	2.70-10	2.33-11	9.26-16	2.23-25	8.11-11	1.78-11
1.16-10	1.20-10	1.55-10	3.10-11	1.45-11	5.58-14	5.39-24	2.17-11	4.00-12
2.11-10	8.81-11	1.78-10	5.65-11	1.78-11	1.16-13	1.02-22	2.86-11	1.01-11
4.44-11	4.19-11	1.49-10	3.71-11	4.12-11	5.17-14	6.12-26	1.17-11	3.97-12
3.21-11	9.12-11	4.04-11	3.10-11	6.38-12	3.33-14	1.81-29	9.13-12	3.41-12
1.53-11	6.79-11	2.25-11	5.42-11	7.34-13	2.10-13	7.64-25	6.43-12	2.49-12
4.01-11	1.42-10	4.08-11	5.76-11	4.00-12	9.50-14	4.95-27	1.28-11	5.04-12
1.59-11	2.41-11	1.07-10	3.06-11	2.47-11	7.43-13	9.60-23	6.82-12	2.56-12
0.	8.40-12	4.44-10	4.13-12	6.66-12	8.15-16	1.19-28	1.48-11	1.38-11
0.	2.46-15	7.51-13	5.90-11	2.39-12	4.92-14	2.04-28	1.24-12	1.17-12
1.24-10	1.48-10	2.56-10	9.48-11	3.25-11	3.31-13	5.38-23		
3.49-11	3.03-11	8.75-11	2.32-11	1.52-11	1.58-13	3.18-23	3.14-11	5.03-12
							2.87-10	3.26-11

AIR SCATTERING 1.14 02 ENERGY 4.00 ANGLE 1.00 DIST. 3.05 03
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	1.50-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	3.55-08	2.13-07	1.03-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	6.79-08	9.99-08	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	1.22-07	1.33-07	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	1.96-07	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	1.51-07	0.
1.40 02	0.	0.	0.	0.	0.	0.	2.18-07	0.
1.60 02	0.	0.	0.	0.	0.	0.	2.26-07	1.32-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	8.75-07
	9.64-08	3.69-08	3.59-08	2.66-08	3.99-08	7.74-08	1.46-07	7.57-08

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	9.52-07	0.	1.56-09	0.	0.	0.	0.	0.
4.00 01	2.26-08	1.35-07	6.55-08	0.	0.	0.	0.	0.
6.00 01	0.	0.	4.32-08	6.36-08	0.	0.	0.	1.40-10
8.00 01	0.	0.	0.	0.	7.78-08	8.45-08	0.	1.40-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	8.65-11
1.00 02	0.	0.	0.	0.	0.	1.25-07	0.	1.53-09
1.20 02	0.	0.	0.	0.	0.	0.	9.59-08	6.98-11
1.40 02	0.	0.	0.	0.	0.	0.	1.39-07	3.72-09
1.60 02	0.	0.	0.	0.	0.	0.	1.44-07	8.46-08
1.80 02	0.	0.	0.	0.	0.	3.25-11	2.81-12	5.65-07
	6.13-08	2.35-08	2.30-08	1.69-08	2.54-08	4.93-08	9.32-08	5.01-08
	1.00-08	1.36-08	1.62-08	1.69-08	2.54-08	3.51-08	4.35-08	1.09-08

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.91-10	2.59-10	0.
4.00 01	0.	0.	0.	0.	0.	6.04-11	1.14-10	6.21-10
6.00 01	0.	0.	0.	0.	0.	0.	1.43-10	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.02-08
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.24-14
1.00 02	0.	0.	0.	0.	0.	0.	9.03-10	6.98-12
1.20 02	0.	0.	0.	0.	0.	0.	7.67-13	1.02-09
1.40 02	0.	0.	0.	0.	0.	0.	2.93-13	1.43-10
1.60 02	0.	0.	0.	0.	0.	4.32-15	1.30-11	3.97-10
1.80 02	0.	0.	0.	0.	0.	2.08-10	2.52-11	1.28-08
	0.	0.	0.	0.	0.	3.45-11	2.34-10	4.67-09
	0.	0.	0.	0.	0.	2.00-11	1.63-10	3.29-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	2.10-09	0.	0.	0.	2.78-10	4.17-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.41-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.03-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.78-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.78-13
1.00 02	0.	0.	0.	0.	0.	0.	0.	6.36-12
1.20 02	0.	0.	0.	0.	0.	0.	1.78-12	3.91-11
1.40 02	0.	0.	0.	0.	3.04-14	8.21-15	7.14-12	2.12-09
1.60 02	0.	0.	0.	0.	1.29-12	6.42-10	8.62-13	4.99-09
1.80 02	0.	0.	0.	0.	0.	2.12-11	4.21-11	1.26-09
	0.	0.	1.26-10	0.	2.32-13	1.13-10	2.19-11	1.57-09
	0.	0.	1.26-10	0.	2.24-13	1.11-10	1.70-11	7.89-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	3.06-09	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.23-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	5.21-12
9.00 01	0.	0.	0.	0.	0.	0.	0.	7.93-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	8.05-14
1.20 02	0.	0.	0.	0.	0.	0.	5.28-13	5.99-11
1.40 02	0.	0.	0.	0.	0.	7.53-13	5.60-12	7.56-10
1.60 02	0.	0.	0.	0.	0.	1.24-11	3.97-12	3.91-10
1.80 02	0.	0.	0.	0.	0.	2.70-10	1.24-11	1.01-08
	0.	0.	0.	5.31-10	0.	1.87-11	3.10-12	1.04-09
	0.	0.	0.	5.30-10	0.	1.16-11	1.71-12	4.03-10

312634121451 140016474215

AIR SCATTERING 1.14 02 ENERGY 4.00 ANGLE 1.00 DIST. 3.05 03
4.00 01 1.75 03 0. 0. 5.14 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.	2.09-06
0.	0.	0.	0.	0.	0.	0.	2.82-07
0.	0.	0.	0.	0.	0.	0.	8.07-08
0.	0.	0.	0.	0.	0.	0.	5.71-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	3.92-08
0.	0.	0.	0.	0.	0.	0.	1.51-08
0.	0.	0.	0.	0.	0.	0.	2.18-08
0.	0.	0.	0.	0.	0.	0.	3.32-08
0.	0.	0.	0.	0.	0.	0.	7.00-08
0.	0.	0.	0.	0.	0.	0.	
							2.43-07

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		
3.41-08	4.63-11	1.71-10	1.03-10	1.53-11	4.07-15	6.91-25	1.34-06	2.15-07
3.66-09	1.89-10	3.82-10	2.92-10	1.84-11	3.83-14	3.35-19	1.80-07	8.03-08
7.52-10	8.75-11	1.49-09	1.19-10	4.27-12	5.30-13	6.16-22	5.15-08	3.63-08
2.83-10	3.09-10	1.06-10	2.12-11	6.96-12	3.92-15	8.30-22	3.64-08	2.57-08
2.39-10	3.13-11	7.75-11	3.46-11	8.94-12	4.86-13	1.52-26	2.49-11	1.05-11
2.00-10	1.41-10	6.56-11	2.02-11	2.28-11	7.16-14	4.01-31	2.51-08	2.50-08
1.18-10	2.42-10	9.18-10	4.14-11	9.23-12	1.17-14	2.93-26	9.63-09	9.59-09
1.18-10	5.20-10	1.01-10	4.83-11	6.68-12	7.81-15	1.56-20	1.42-08	9.96-09
8.43-11	1.16-10	1.69-10	1.48-10	7.05-12	2.01-15	9.33-20	2.12-08	9.39-09
7.49-10	3.34-10	2.89-10	2.22-10	9.76-12	9.41-16	6.17-25	4.53-08	8.62-09
3.19-09	4.47-10	9.06-10	1.71-10	1.96-11	2.52-13	7.90-20		
2.00-09	1.27-10	4.26-10	5.07-11	5.84-12	1.44-13	6.18-20	1.55-07	2.36-08

PHI 45 TO 90 DEGREES

7.53-10	4.93-11	2.07-10	2.72-11	1.11-11	7.83-16	1.12-28	1.17-10	5.19-11
1.67-09	4.46-11	5.71-11	3.66-10	1.14-11	8.50-14	2.96-18	1.82-10	1.22-10
2.53-09	2.54-10	1.74-10	1.04-10	2.35-12	5.27-15	1.48-23	1.81-10	1.16-10
2.87-09	7.66-10	2.26-10	4.64-11	2.25-11	1.90-11	6.28-21	1.02-09	7.99-10
8.42-11	1.19-09	8.00-11	1.62-11	9.03-12	3.34-14	2.98-21	5.01-11	3.57-11
1.73-10	2.92-10	6.85-10	1.69-10	2.30-11	9.42-15	6.00-23	1.31-10	9.10-11
1.24-09	7.39-10	1.31-10	1.22-10	6.05-11	4.42-13	3.12-25	1.88-10	1.01-10
1.75-10	6.70-10	1.14-10	5.19-11	9.19-12	1.12-13	3.42-26	5.69-11	2.48-11
2.78-10	4.10-10	2.36-10	8.61-11	5.76-12	3.07-14	7.50-25	8.76-11	2.29-11
2.26-10	4.18-10	1.99-10	1.11-10	8.42-11	3.93-15	3.96-28	1.11-09	8.29-10
2.50-09	1.15-09	4.01-10	2.16-10	4.44-11	6.41-12	5.17-19		
9.41-10	3.69-10	8.27-11	5.58-11	1.57-11	6.17-12	5.14-19	6.09-10	2.73-10

PHI 90 TO 135 DEGREES

7.73-10	6.90-11	1.01-10	6.80-12	5.33-12	1.07-13	2.39-22	1.37-09	1.26-09
8.20-10	3.68-10	5.59-11	2.87-11	5.86-12	2.02-13	5.78-23	6.62-11	3.20-11
1.97-10	6.11-11	1.79-10	6.85-11	1.59-11	1.12-12	2.01-23	2.44-11	8.07-12
3.43-10	2.39-10	2.67-10	7.11-10	4.31-11	4.33-13	1.26-22	4.90-11	1.58-11
2.36-09	1.20-10	3.45-10	5.74-11	4.90-12	9.18-14	2.07-29	1.55-10	8.43-11
1.38-09	1.85-10	1.07-10	3.26-11	3.78-11	1.05-12	2.67-22	9.37-11	5.46-11
1.85-10	1.48-10	1.12-10	1.35-10	6.99-11	3.12-13	5.29-23	2.53-11	5.79-12
6.34-11	1.84-10	1.24-10	6.77-11	1.61-11	9.39-15	1.14-21	1.85-10	9.78-11
4.32-10	3.73-10	2.15-10	1.32-10	2.26-11	2.00-14	2.70-28	5.75-10	3.58-10
1.01-09	5.52-10	3.18-10	5.77-11	5.67-12	7.26-16	1.11-24	1.98-10	5.55-11
1.22-09	4.11-10	3.55-10	3.60-10	5.84-11	7.86-13	4.38-22		
3.35-10	9.05-11	8.82-11	1.88-10	1.71-11	4.09-13	2.57-22	3.29-10	1.04-10

PHI 135 TO 180 DEGREES

5.08-10	2.05-10	1.11-11	1.39-10	9.50-12	7.15-16	6.62-28	4.03-11	2.02-11
3.57-10	1.01-10	7.85-11	1.10-10	7.53-11	4.44-15	1.29-24	1.25-09	1.22-09
8.37-11	4.91-10	9.87-10	5.59-11	2.93-12	1.37-13	5.60-24	4.82-11	2.11-11
2.34-10	8.36-11	3.19-10	4.18-11	3.85-11	1.06-12	6.52-27	2.62-11	7.45-12
8.87-10	4.78-11	9.28-11	3.86-10	2.17-11	3.04-14	5.65-21	1.27-10	8.31-11
4.90-10	2.94-10	7.59-10	5.81-11	8.25-12	6.21-15	7.44-22	5.92-11	2.30-11
3.51-10	1.90-10	1.50-10	1.22-10	7.62-11	2.55-14	3.38-25	3.91-11	1.19-11
2.07-10	5.59-10	3.18-10	1.41-10	2.57-11	5.88-14	5.03-22	1.04-10	5.36-11
3.55-10	2.95-10	9.15-10	7.67-11	1.94-11	6.45-15	3.95-22	8.94-11	2.17-11
8.32-11	3.79-10	9.23-10	1.60-09	2.12-11	1.62-16	2.76-25	9.26-10	4.59-10
6.66-10	5.32-10	8.77-10	3.20-10	6.86-11	4.13-13	1.31-21		
1.64-10	1.64-10	2.01-10	1.25-10	2.33-11	2.74-13	7.92-22	3.85-10	2.15-10
							2.46-07	3.72-08

AIR SCATTERING 1.15 02 ENERGY 4.00 ANGLE 1.50 01 DIST. 3.05 03
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	2.27-08	4.27-08	8.60-09	0.	0.	0.	0.	0.
4.00 01	0.	0.	1.00-08	9.09-09	0.	0.	0.	0.
6.00 01	0.	0.	0.	2.88-09	8.68-09	0.	0.	0.
8.00 01	0.	0.	0.	0.	1.86-09	7.21-09	0.	0.
9.00 01	0.	0.	0.	0.	0.	7.05-09	0.	0.
1.00 02	0.	0.	0.	0.	0.	2.71-09	6.07-09	0.
1.20 02	0.	0.	0.	0.	0.	0.	1.14-08	0.
1.40 02	0.	0.	0.	0.	0.	0.	1.12-08	0.
1.60 02	0.	0.	0.	0.	0.	0.	9.66-10	1.28-08
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.10-09
	1.37-09	2.57-09	2.26-09	2.35-09	2.92-09	4.05-09	7.93-09	2.30-09

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	1.44-08	3.07-08	5.48-09	0.	0.	7.10-10	4.88-10	4.12-10
4.00 01	0.	0.	6.38-09	5.79-09	0.	7.45-10	1.92-09	2.10-10
6.00 01	0.	0.	0.	1.84-09	5.52-09	0.	0.	1.59-10
8.00 01	0.	0.	0.	0.	1.19-09	4.59-09	0.	6.12-10
9.00 01	0.	0.	0.	0.	0.	4.49-09	0.	1.54-11
1.00 02	0.	0.	0.	0.	0.	1.72-09	3.87-09	3.30-09
1.20 02	0.	0.	0.	0.	0.	2.25-09	8.07-09	1.01-09
1.40 02	0.	0.	0.	0.	0.	0.	7.12-09	2.67-09
1.60 02	0.	0.	0.	0.	0.	3.21-11	1.30-09	1.33-08
1.80 02	0.	0.	0.	0.	0.	4.40-11	1.10-10	3.57-09
	8.71-10	1.85-09	1.44-09	1.49-09	1.86-09	3.49-09	5.79-09	4.45-09
	1.08-10	3.12-10	2.60-10	3.24-10	4.36-10	8.96-10	7.21-10	6.36-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	9.69-10	0.	0.	7.15-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.41-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.34-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.06-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.85-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.73-10
1.40 02	0.	0.	0.	0.	0.	0.	3.17-09	5.59-10
1.60 02	0.	0.	0.	0.	0.	4.36-12	6.26-12	6.50-10
1.80 02	0.	0.	0.	0.	0.	3.90-12	1.19-12	3.69-10
	0.	0.	0.	0.	5.84-11	9.92-13	8.44-10	7.68-10
	0.	0.	0.	0.	5.84-11	4.70-13	8.42-10	2.32-10

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.	6.45-11	4.64-13
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.11-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.80-10
1.20 02	0.	0.	0.	0.	0.	1.83-13	0.	6.52-11
1.40 02	0.	0.	0.	0.	0.	6.41-16	4.29-13	7.60-10
1.60 02	0.	0.	0.	0.	0.	1.03-11	1.38-11	8.47-11
1.80 02	0.	0.	0.	0.	0.	0.	4.17-11	2.84-10
	0.	0.	0.	0.	0.	1.84-12	2.22-11	3.73-10
	0.	0.	0.	0.	0.	1.75-12	1.74-11	1.57-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.56-09
4.00 01	0.	0.	0.	0.	0.	0.	1.48-10	3.65-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	8.88-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.49-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.12-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.17-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.72-11
1.60 02	0.	0.	0.	0.	0.	0.	1.07-13	1.79-10
1.80 02	0.	0.	0.	0.	0.	9.99-14	5.93-13	4.95-10
	0.	0.	0.	0.	0.	6.03-15	2.58-11	2.70-10
	0.	0.	0.	0.	0.	5.98-15	2.57-11	1.01-10

140016474215 215312534541

AIR SCATTERING 1.15 02 ENERGY 4.00 ANGLE 1.50 01 DIST. 3.05 03

2.50 01	1.76 03	0.	0.	5.17 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.	7.10-08	
0.	0.	0.	0.	0.	0.	0.	9.65-09	
0.	0.	0.	0.	0.	0.	0.	3.32-09	
0.	0.	0.	0.	0.	0.	0.	1.91-09	
0.	0.	0.	0.	0.	0.	0.	1.41-09	
0.	0.	0.	0.	0.	0.	0.	1.15-09	
0.	0.	0.	0.	0.	0.	0.	1.14-09	
0.	0.	0.	0.	0.	0.	0.	1.12-09	
0.	0.	0.	0.	0.	0.	0.	1.12-09	
0.	0.	0.	0.	0.	0.	0.	8.83-11	
0.	0.	0.	0.	0.	0.	0.		
							8.78-09	

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			
1.65-09	1.25-11	2.33-11	3.68-10	5.27-11	3.04-16	4.83-27	4.84-08	5.12-09	
6.97-10	3.64-10	5.13-11	5.41-11	4.16-12	3.74-15	2.80-26	6.56-09	1.03-09	
5.94-10	1.02-10	3.34-10	2.75-10	1.84-11	1.50-15	1.36-26	2.18-09	4.65-10	
8.60-10	5.84-10	2.08-10	1.74-10	1.34-11	2.72-14	2.39-23	1.34-09	2.89-10	
9.56-10	8.07-11	2.92-10	4.46-11	1.69-11	8.14-15	1.17-25	9.67-10	3.02-10	
7.04-10	9.69-10	2.38-10	5.69-11	1.22-10	2.38-14	1.71-25	1.08-09	2.03-10	
2.06-10	4.75-10	8.93-11	2.74-08	4.73-10	2.34-14	2.74-22	1.79-09	6.35-10	
1.87-10	1.81-09	1.38-10	7.79-11	3.58-09	6.73-15	1.54-21	1.05-09	1.65-10	
3.80-10	6.59-10	4.96-10	5.16-11	7.09-12	6.36-15	9.91-24	1.26-09	1.79-10	
2.57-10	4.65-10	1.63-10	2.74-11	7.92-12	8.71-12	1.31-23	3.42-10	1.17-10	
1.15-09	1.24-09	4.21-10	9.16-09	1.15-09	5.52-13	5.09-22			
2.64-10	4.76-10	1.11-10	8.88-09	1.09-09	4.88-13	2.94-22	6.53-09	4.56-10	

PHI 45 TO 90 DEGREES

1.57-09	9.68-11	1.50-11	6.34-11	1.83-12	1.19-16	6.15-24	3.98-10	2.58-10	
2.48-10	9.81-11	1.98-09	7.29-11	6.72-11	9.59-15	6.65-24	6.79-11	4.78-11	
3.64-10	1.97-10	2.23-10	7.56-11	1.64-12	1.10-14	1.30-23	8.67-11	5.20-11	
3.09-10	1.45-10	8.13-10	2.18-09	3.50-11	2.75-12	1.47-20	8.71-11	4.07-11	
5.66-10	2.07-10	1.58-10	2.24-10	7.59-11	4.41-15	8.98-26	9.00-11	4.38-11	
5.59-10	1.89-10	3.79-11	5.96-11	3.34-11	1.28-14	1.06-23	6.53-11	2.52-11	
4.32-10	1.52-10	8.31-10	1.41-10	2.30-09	6.76-14	1.96-24	1.03-10	3.39-11	
4.09-10	4.45-10	6.47-10	5.96-09	4.11-12	7.69-15	6.14-24	5.07-10	3.35-10	
1.72-10	2.31-10	1.76-10	5.72-11	2.17-11	3.02-14	1.27-23	7.75-11	3.22-11	
6.52-10	2.11-10	1.39-10	6.07-11	1.83-10	1.49-15	3.50-23	8.35-11	3.11-11	
8.49-10	4.12-10	1.19-09	2.44-09	8.08-10	9.35-13	4.82-21			
1.49-10	9.20-11	4.59-10	1.70-09	7.45-10	7.56-13	4.81-21	3.01-10	1.04-10	

PHI 90 TO 135 DEGREES

1.05-09	5.16-10	8.49-11	2.25-10	1.25-12	2.54-16	2.65-25	8.73-11	3.79-11	
7.94-11	1.08-11	2.93-11	1.49-11	3.62-10	1.54-14	7.23-24	1.04-11	5.03-12	
3.10-10	3.63-10	8.46-11	2.01-11	3.60-11	2.37-13	3.05-25	4.09-11	1.28-11	
6.24-10	5.42-10	1.49-10	5.56-10	1.13-11	1.16-13	1.98-23	8.59-11	3.58-11	
1.31-10	6.65-09	6.43-11	3.89-11	9.76-12	4.26-13	1.17-20	2.50-10	2.30-10	
2.05-10	9.61-10	4.65-10	3.41-10	1.33-10	6.51-14	2.60-21	8.71-11	3.75-11	
5.29-10	8.22-10	1.44-10	1.85-08	9.35-11	1.33-13	1.59-23	3.49-10	2.77-10	
3.99-10	1.01-10	3.04-10	1.70-10	7.91-11	1.80-14	2.56-26	9.92-11	4.34-11	
6.63-11	4.11-10	4.94-09	6.31-11	1.50-11	4.08-15	2.09-26	1.49-10	1.11-10	
1.88-10	6.64-10	2.00-10	2.54-10	2.75-11	1.26-13	1.60-21	7.11-11	2.23-11	
7.24-10	2.04-09	1.17-09	6.38-09	1.57-10	2.45-13	2.59-21			
1.92-10	1.34-09	8.01-10	6.01-09	6.75-11	1.10-13	2.48-21	2.75-10	1.06-10	

PHI 135 TO 180 DEGREES

1.05-10	5.26-10	1.93-11	3.61-11	2.46-11	1.30-17	5.03-26	1.57-10	9.37-11	
1.73-10	2.31-10	6.58-11	1.20-10	6.56-12	3.78-16	1.18-27	6.61-11	3.19-11	
8.89-10	8.94-11	2.55-10	6.10-11	9.16-11	8.65-14	1.20-24	6.47-11	4.34-11	
4.36-10	3.01-10	7.38-11	4.61-10	3.51-11	6.14-14	6.64-26	5.32-11	1.75-11	
6.37-10	1.21-10	1.88-10	3.24-10	1.39-12	8.39-16	6.57-26	5.31-11	2.68-11	
7.37-11	1.21-10	7.54-11	2.83-10	1.28-12	4.93-14	4.12-24	1.49-11	5.39-12	
1.10-10	5.51-11	2.17-09	4.43-11	1.20-10	2.32-15	1.14-24	6.54-11	5.07-11	
8.25-11	3.25-10	3.37-09	3.98-10	1.16-11	1.09-14	1.10-24	1.07-10	7.60-11	
2.87-10	1.66-10	1.51-10	3.49-09	2.65-11	1.10-15	4.12-25	9.38-11	5.19-11	
1.23-09	5.00-10	9.41-11	8.41-11	4.50-10	1.28-14	2.00-21	1.41-10	6.31-11	
7.26-10	3.99-10	1.79-09	1.03-09	1.13-10	5.64-14	1.22-22			
2.31-10	9.24-11	1.52-09	6.59-10	4.44-11	2.85-14	1.05-22	1.42-10	4.16-11	
							1.14-08	8.43-10	

AIR SCATTERING 1.16 02 ENERGY 4.00 ANGLE 3.00 01 DIST. 3.05 03
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.	3.57-09	1.89-08	7.02-09	0.	0.	0.	0.
4.00 01	0.	0.	0.	4.29-09	4.79-09	0.	0.	0.
6.00 01	0.	0.	0.	0.	2.18-09	3.24-09	0.	0.
8.00 01	0.	0.	0.	0.	0.	3.39-09	1.67-10	0.
9.00 01	0.	0.	0.	0.	0.	0.	5.45-09	0.
1.00 02	0.	0.	0.	0.	0.	0.	4.78-09	0.
1.20 02	0.	0.	0.	0.	0.	0.	4.17-09	0.
1.40 02	0.	0.	0.	0.	0.	0.	1.26-09	2.31-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.34-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	2.15-10	1.14-09	1.17-09	1.41-09	1.97-09	3.53-09	6.91-10

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.	2.27-09	1.20-08	5.56-09	0.	0.	0.	1.18-09
4.00 01	0.	0.	0.	2.73-09	3.05-09	0.	0.	2.05-10
6.00 01	0.	0.	0.	0.	1.39-09	2.47-09	7.81-10	2.68-10
8.00 01	0.	0.	0.	0.	0.	2.63-09	2.56-10	1.94-10
9.00 01	0.	0.	0.	0.	0.	0.	3.65-09	4.77-10
1.00 02	0.	0.	0.	0.	0.	1.72-10	3.04-09	5.41-10
1.20 02	0.	0.	0.	0.	0.	0.	2.95-09	6.36-10
1.40 02	0.	0.	0.	0.	0.	1.55-10	1.35-09	2.74-09
1.60 02	0.	0.	0.	0.	0.	4.82-12	3.77-11	2.20-09
1.80 02	0.	0.	0.	0.	0.	1.60-12	1.57-12	1.46-09
	0.	1.37-10	7.25-10	8.09-10	8.99-10	1.59-09	2.78-09	1.82-09
	0.	3.41-11	9.12-11	1.31-10	1.51-10	2.70-10	2.94-10	2.20-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	7.28-10	0.	0.	4.26-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	8.58-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.48-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.39-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.56-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.13-10
1.40 02	0.	0.	0.	0.	0.	4.41-12	2.48-14	1.46-10
1.60 02	0.	0.	0.	0.	0.	0.	2.59-11	2.69-10
1.80 02	0.	0.	0.	0.	0.	5.23-13	1.11-10	1.62-10
	0.	0.	0.	0.	4.39-11	1.21-12	1.12-11	5.58-10
	0.	0.	0.	0.	4.39-11	1.17-12	7.10-12	2.75-10

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.	1.55-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.33-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	9.10-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	7.43-11
1.20 02	0.	0.	0.	0.	0.	1.06-12	9.04-12	1.97-11
1.40 02	0.	0.	0.	0.	0.	0.	1.51-12	2.81-10
1.60 02	0.	0.	0.	0.	0.	0.	3.49-13	2.88-10
1.80 02	0.	0.	0.	0.	0.	0.	1.66-10	1.74-11
	0.	0.	0.	0.	0.	3.46-13	1.34-11	3.30-10
	0.	0.	0.	0.	0.	3.46-13	1.03-11	1.44-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	5.55-10	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.36-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	4.67-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.89-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.51-14
1.40 02	0.	0.	0.	0.	0.	0.	0.	9.51-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.66-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.39-10
	0.	0.	0.	9.64-11	0.	0.	0.	9.61-11
	0.	0.	0.	9.63-11	0.	0.	0.	2.85-11

334416442315 371137447221

AIR SCATTERING 1.16 02 ENERGY 4.00 ANGLE 3.00 01 DIST. 3.05 03
3.20 01 1.75 03 0. 0. 5.21 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.	1.70-08
0.	0.	0.	0.	0.	0.	0.	2.91-09
0.	0.	0.	0.	0.	0.	0.	1.19-09
0.	0.	0.	0.	0.	0.	0.	6.94-10
0.	0.	0.	0.	0.	0.	0.	5.45-10
0.	0.	0.	0.	0.	0.	0.	4.78-10
0.	0.	0.	0.	0.	0.	0.	4.17-10
0.	0.	0.	0.	0.	0.	0.	3.11-10
0.	0.	0.	0.	0.	0.	0.	3.47-11
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							2.48-09

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		
1.34-09	4.91-09	4.01-11	4.08-11	3.37-12	7.76-16	4.91-21	1.16-08	1.24-09
9.86-10	2.17-10	8.34-10	2.03-11	4.74-12	5.70-15	1.37-24	1.96-09	2.73-10
3.60-09	9.10-10	3.74-10	2.90-11	2.82-11	5.96-15	1.11-26	1.20-09	2.51-10
6.52-10	2.09-10	6.53-11	1.55-10	7.14-12	2.98-14	4.03-23	6.18-10	1.25-10
2.62-10	2.51-10	7.48-11	1.48-10	5.61-11	4.98-15	6.23-20	4.33-10	8.69-11
6.02-10	2.53-10	1.04-10	2.09-10	2.07-11	5.12-15	4.56-24	4.33-10	7.84-11
2.24-10	3.26-10	2.43-10	1.51-10	1.87-11	6.08-15	4.35-24	3.80-10	4.08-11
3.48-10	4.80-10	1.93-09	5.00-10	2.88-11	5.07-14	1.74-25	4.78-10	7.20-11
1.40-09	2.10-10	1.57-10	1.27-10	1.61-11	3.52-12	3.00-20	2.78-10	9.72-11
2.40-11	1.28-10	1.06-10	2.73-11	3.31-11	1.12-14	2.22-27	1.26-10	1.06-10
1.98-09	1.01-09	9.27-10	3.32-10	4.27-11	6.42-13	1.63-20		
8.56-10	3.00-10	4.05-10	1.24-10	1.33-11	5.99-13	1.20-20	2.02-09	1.28-10

PHI 45 TO 90 DEGREES

1.26-09	1.78-10	1.88-11	2.32-10	9.94-11	1.48-13	2.94-25	3.03-10	1.88-10
3.97-10	2.38-10	2.14-09	3.55-11	2.64-11	1.69-13	1.16-20	8.47-11	4.95-11
2.48-09	1.12-10	9.29-11	9.25-11	2.02-11	4.94-15	2.34-22	1.64-10	1.31-10
3.58-10	1.23-10	4.13-10	3.26-10	4.72-11	1.32-14	3.29-24	4.33-11	1.16-11
2.09-10	2.00-11	6.90-11	3.52-10	1.94-11	1.10-13	1.61-24	2.07-11	6.78-12
9.04-11	2.55-10	2.61-10	3.95-11	3.56-11	1.83-14	5.97-24	1.46-10	1.17-10
3.28-10	2.01-10	2.35-10	3.31-10	7.00-11	2.36-14	2.53-26	7.14-11	2.64-11
3.26-10	1.19-09	1.32-09	6.11-11	6.09-11	1.40-13	2.03-24	1.08-10	3.87-11
4.05-11	1.58-10	1.31-10	4.20-10	1.47-11	2.97-14	5.15-24	4.18-11	1.07-11
1.35-10	2.33-10	2.45-10	6.89-10	1.46-12	1.12-15	8.03-28	5.68-11	1.87-11
1.18-09	5.94-10	1.06-09	4.58-10	8.26-11	1.16-13	2.08-21		
5.92-10	2.05-10	4.99-10	1.26-10	2.44-11	5.21-14	2.07-21	1.82-10	4.88-11

PHI 90 TO 135 DEGREES

5.24-10	3.31-10	3.59-11	6.48-12	1.24-11	7.64-16	2.13-20	4.44-11	1.73-11
2.28-10	7.08-10	8.59-11	1.22-10	3.00-11	4.99-14	1.44-22	5.58-11	2.43-11
2.27-10	1.68-10	6.02-10	2.32-10	1.18-11	2.25-14	5.97-19	3.78-11	1.53-11
2.08-10	2.66-10	2.95-10	1.89-10	5.44-12	1.37-14	6.55-24	3.20-11	1.02-11
3.64-10	7.68-10	1.03-10	3.67-10	3.21-11	4.56-14	5.38-23	1.31-10	6.47-11
1.65-10	2.12-10	3.47-10	1.18-09	4.67-12	1.74-13	1.03-25	4.96-11	1.47-11
5.98-10	1.52-10	9.18-11	9.29-11	4.73-12	2.98-14	1.93-21	4.77-11	2.13-11
1.70-10	1.10-09	2.08-10	4.01-10	4.63-11	1.57-14	7.04-24	8.42-11	3.75-11
8.64-11	2.03-10	3.13-10	1.47-10	4.09-11	1.75-14	8.00-22	4.58-11	1.51-11
1.68-11	8.70-10	3.15-10	4.85-10	3.24-11	3.41-15	2.94-24	6.56-11	2.59-11
5.48-10	8.76-10	5.10-10	6.06-10	4.02-11	7.44-14	1.61-19		
1.39-10	2.92-10	1.64-10	1.85-10	1.26-11	3.15-14	1.59-19	1.14-10	1.93-11

PHI 135 TO 180 DEGREES

5.27-10	6.16-11	2.32-11	1.22-10	2.73-13	1.97-15	3.17-23	3.63-11	2.43-11
3.60-10	5.68-10	4.30-10	1.26-10	6.05-12	9.33-15	2.02-22	2.76-10	2.23-10
4.89-10	2.80-10	2.68-10	2.24-11	1.72-11	2.12-14	1.75-20	4.91-11	1.93-11
2.60-11	1.73-10	1.50-10	1.43-10	2.51-10	9.14-15	7.72-20	2.03-11	6.59-12
9.92-10	4.32-11	4.76-11	1.35-09	6.78-11	1.47-14	2.62-28	8.48-11	6.10-11
1.31-10	1.19-10	6.15-11	3.19-10	1.68-11	1.35-14	1.41-21	1.86-11	5.92-12
1.04-10	3.44-10	3.22-10	4.28-10	7.37-11	1.17-14	1.13-21	3.37-11	1.15-11
7.47-11	1.94-09	3.42-10	5.81-10	2.51-11	1.14-13	1.53-24	9.90-11	6.08-11
7.94-10	5.73-11	3.40-10	1.61-10	3.43-11	1.38-15	4.99-24	7.40-11	2.82-11
1.27-10	2.65-10	2.03-09	1.72-10	1.01-11	3.14-15	6.39-27	8.76-11	2.85-11
6.27-10	9.15-10	5.93-10	7.05-10	1.39-10	4.97-14	3.05-20		
2.02-10	4.83-10	1.39-10	2.98-10	8.10-11	2.85-14	2.92-20	1.43-10	4.50-11
							3.86-09	2.54-10

AIR SCATTERING 1.17 02 ENERGY 4.00 ANGLE 6.00 01 DIST. 3.05 03
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.	3.98-10	1.27-08	8.99-10	0.	0.
4.00 01	0.	0.	0.	0.	0.	4.10-09	0.	0.
6.00 01	0.	0.	0.	0.	0.	9.94-10	1.89-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	2.29-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	1.58-09	0.
1.00 02	0.	0.	0.	0.	0.	0.	7.47-10	4.36-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.76-10
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.	2.40-11	7.66-10	1.03-09	1.65-09	1.09-10

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.	2.53-10	8.08-09	9.34-10	1.58-10	1.57-10
4.00 01	0.	0.	0.	0.	0.	2.92-09	8.14-11	7.82-10
6.00 01	0.	0.	0.	0.	0.	9.21-10	1.31-09	3.97-09
8.00 01	0.	0.	0.	0.	0.	4.74-10	1.71-09	3.31-10
9.00 01	0.	0.	0.	0.	0.	0.	1.26-09	1.90-09
1.00 02	0.	0.	0.	0.	0.	0.	6.35-10	9.58-10
1.20 02	0.	0.	0.	0.	0.	0.	7.90-11	7.70-10
1.40 02	0.	0.	0.	0.	0.	1.48-13	1.85-11	1.95-10
1.60 02	0.	0.	0.	0.	0.	0.	2.08-15	1.43-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.92-11
	0.	0.	0.	1.53-11	4.87-10	9.57-10	1.29-09	2.13-09
	0.	0.	0.	8.81-12	9.99-11	1.59-10	1.02-10	9.57-10

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.	6.10-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.07-10
8.00 01	0.	0.	0.	0.	0.	0.	1.23-10	5.96-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	7.94-11
1.00 02	0.	0.	0.	0.	0.	6.89-12	3.74-11	2.16-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.93-10
1.40 02	0.	0.	0.	0.	0.	0.	4.06-15	7.03-11
1.60 02	0.	0.	0.	0.	0.	0.	2.75-13	4.95-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.30-09
	0.	0.	0.	0.	0.	1.20-12	4.66-11	2.69-10
	0.	0.	0.	0.	0.	1.20-12	4.05-11	9.03-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.32-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.28-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	2.07-12	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.	3.19-11
1.40 02	0.	0.	0.	0.	0.	0.	4.03-13	5.23-17
1.60 02	0.	0.	0.	0.	0.	0.	0.	8.80-12
1.80 02	0.	0.	0.	0.	0.	0.	1.98-11	4.63-12
	0.	0.	0.	0.	0.	0.	1.98-12	3.02-11
	0.	0.	0.	0.	0.	0.	1.38-12	1.48-11

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.	9.76-11
6.00 01	0.	0.	0.	0.	0.	0.	1.57-09	4.20-11
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.	4.66-15
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.60-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	8.58-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.47-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.87-13
	0.	0.	0.	0.	0.	0.	4.18-10	5.65-11
	0.	0.	0.	0.	0.	0.	4.18-10	3.27-11

141545164311 261452234735

AIR SCATTERING 1.17 02 ENERGY 4.00 ANGLE 6.00 01 DIST. 3.05 03
3.30 01 1.76 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.	3.51-09
0.	0.	0.	0.	0.	0.	0.	8.21-10
0.	0.	0.	0.	0.	0.	0.	3.88-10
0.	0.	0.	0.	0.	0.	0.	2.29-10
0.	0.	0.	0.	0.	0.	0.	1.58-10
0.	0.	0.	0.	0.	0.	0.	1.10-10
0.	0.	0.	0.	0.	0.	0.	3.01-11
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.	
							5.89-10

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		
4.45-10	1.38-10	3.99-11	1.17-10	8.35-12	2.57-13	1.78-19	2.35-09	2.77-10
4.69-10	4.50-10	2.51-10	1.35-10	2.93-11	1.52-14	7.30-27	7.07-10	1.15-10
2.35-10	1.08-10	1.47-10	6.89-11	9.09-11	6.35-15	4.99-25	6.56-10	2.80-10
1.53-10	1.68-10	1.13-10	3.34-11	1.82-11	1.29-12	4.05-21	3.11-10	7.24-11
1.71-10	1.48-09	1.03-10	8.12-11	2.01-12	2.25-15	2.97-22	3.45-10	1.62-10
1.67-10	2.11-09	3.44-10	1.17-10	2.34-11	7.35-15	9.41-24	2.37-10	5.87-11
3.57-10	2.32-10	1.11-10	3.79-11	4.90-11	6.00-14	5.73-25	1.03-10	1.07-11
1.59-10	3.34-10	1.07-10	3.75-11	1.88-11	1.73-13	9.16-22	4.23-11	9.13-12
2.02-10	2.02-10	9.56-11	7.94-11	9.98-12	4.55-13	1.45-20	3.44-11	1.19-11
1.09-09	4.48-11	4.26-11	1.19-10	2.64-12	3.26-14	3.10-19	7.24-11	4.65-11
5.39-10	9.96-10	2.83-10	1.38-10	6.30-11	5.90-13	3.35-20		
8.05-11	4.79-10	5.28-11	3.27-11	2.38-11	4.16-13	2.40-20	6.97-10	9.21-11

PHI 45 TO 90 DEGREES

3.21-10	3.71-11	2.39-10	9.32-11	7.96-12	1.24-14	1.28-20	2.78-11	1.03-11
1.67-10	2.08-10	1.62-10	1.42-10	5.34-11	3.15-16	9.98-24	2.90-11	8.26-12
1.36-10	2.56-10	9.96-11	7.48-11	1.16-09	1.82-15	1.62-22	5.06-11	1.64-11
1.83-10	2.43-10	2.72-10	3.88-11	2.63-11	4.87-14	1.70-21	4.42-11	1.56-11
5.40-10	8.75-11	1.15-10	1.72-10	1.64-11	6.35-15	1.17-26	4.74-11	2.83-11
1.11-10	2.15-11	1.36-10	8.76-11	6.29-12	4.74-12	2.24-23	1.89-11	6.87-12
1.11-10	7.67-11	8.97-10	7.84-10	6.59-12	4.07-12	3.43-26	5.83-11	2.80-11
8.69-11	8.88-11	8.42-11	6.52-11	1.84-11	1.53-14	1.82-22	1.73-11	4.06-12
1.03-11	8.77-12	8.35-11	1.25-10	1.20-11	8.86-12	3.25-20	9.00-12	2.89-12
1.04-11	1.03-10	1.65-10	3.31-11	2.59-11	6.40-13	1.95-27	1.13-10	1.03-10
3.19-10	2.61-10	5.41-10	4.04-10	3.41-10	3.71-12	7.07-21		
8.84-11	5.99-11	2.57-10	2.04-10	2.94-10	2.62-12	5.52-21	7.81-11	1.43-11

PHI 90 TO 135 DEGREES

2.63-10	9.15-11	1.31-11	6.83-11	8.20-11	2.08-14	5.52-25	4.00-11	1.66-11
8.41-10	3.53-11	6.45-11	1.28-10	1.11-11	1.72-13	9.03-28	5.72-11	4.78-11
1.22-10	8.02-11	1.53-10	6.86-11	9.48-11	6.86-14	4.54-26	1.60-11	4.57-12
9.14-11	6.94-10	2.39-10	1.53-10	3.44-12	2.60-14	2.67-23	3.88-11	2.26-11
7.36-11	1.25-10	1.31-10	2.72-11	7.63-11	1.52-14	2.70-23	1.34-11	5.15-12
2.38-11	5.82-10	1.32-09	2.21-10	6.20-12	9.10-16	9.24-21	5.74-11	3.35-11
3.51-10	2.60-10	3.00-11	1.64-10	1.99-11	7.30-15	2.81-25	3.64-11	2.07-11
6.34-11	4.87-11	7.14-11	3.64-10	5.14-12	1.29-13	3.09-23	1.28-11	3.74-12
2.97-09	4.00-10	1.57-10	3.39-11	3.30-11	2.92-13	2.09-21	1.98-10	1.68-10
8.02-10	1.97-10	1.24-11	2.24-11	9.46-12	1.39-14	9.26-31	5.83-11	4.64-11
9.37-10	5.61-10	4.40-10	2.95-10	6.17-11	1.49-13	1.99-21		
5.17-10	2.34-10	2.23-10	8.29-11	2.67-11	8.41-14	1.11-21	9.48-11	3.32-11

PHI 135 TO 180 DEGREES

5.41-11	1.21-09	1.90-11	4.20-12	9.31-12	4.66-14	1.41-20	4.75-11	3.89-11
1.89-09	1.50-11	7.22-11	4.12-10	2.05-10	6.14-14	7.45-20	1.32-10	9.69-11
1.83-10	5.94-11	9.62-11	8.11-11	1.81-11	1.12-14	4.48-20	1.77-10	1.57-10
9.04-11	1.09-10	1.62-10	6.03-11	1.34-10	9.54-13	1.10-21	1.57-11	4.26-12
2.77-10	2.16-10	1.59-10	1.96-11	1.76-10	2.37-14	2.45-24	3.06-11	1.29-11
3.08-10	1.79-10	1.02-10	4.62-10	2.10-10	5.27-16	1.46-20	3.68-11	1.68-11
2.04-10	1.77-10	1.76-10	1.58-10	2.20-10	1.07-14	1.47-23	2.79-11	8.70-12
1.16-10	1.65-11	2.44-11	2.51-11	2.05-11	4.46-15	4.88-25	9.44-12	5.76-12
1.03-10	1.04-10	2.51-11	9.04-11	5.49-13	7.36-15	3.00-20	2.36-11	1.47-11
1.30-10	1.83-11	7.98-12	9.76-12	2.84-11	3.10-16	1.30-24	1.04-11	7.98-12
6.36-10	2.77-10	2.06-10	2.71-10	2.31-10	3.38-13	3.38-20		
2.85-10	8.77-11	6.41-11	9.73-11	1.02-10	2.22-13	1.93-20	1.06-10	4.58-11
							1.53-09	1.82-10

AIR SCATTERING 1.18 02 ENERGY 4.00 ANGLE 9.00 01 DIST. 3.05 03
1.25-03 1.07-02 3.20 01 1.97-06

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.	8.33-09	5.53-10	0.
4.00 01	0.	0.	0.	0.	0.	0.	4.34-09	0.
6.00 01	0.	0.	0.	0.	0.	0.	1.89-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	3.15-10	4.16-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.16-11
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.	5.02-10	1.39-09	1.41-10

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.	5.30-09	1.11-09	3.26-10
4.00 01	0.	0.	0.	0.	0.	3.10-10	3.59-09	5.14-10
6.00 01	0.	0.	0.	0.	0.	1.07-11	1.59-09	6.37-10
8.00 01	0.	0.	0.	0.	0.	0.	4.22-10	6.84-10
9.00 01	0.	0.	0.	0.	0.	0.	2.39-11	3.64-10
1.00 02	0.	0.	0.	0.	0.	0.	1.48-11	2.73-10
1.20 02	0.	0.	0.	0.	0.	0.	1.55-14	1.78-10
1.40 02	0.	0.	0.	0.	0.	0.	1.13-13	2.21-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.40-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	3.76-10	1.26-09	6.77-10
	0.	0.	0.	0.	0.	5.29-11	1.37-10	5.97-11

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.36-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.82-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	7.44-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.42-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.67-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	4.21-11
1.20 02	0.	0.	0.	0.	0.	0.	1.38-12	1.65-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.33-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	8.81-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	4.51-13	4.49-10
	0.	0.	0.	0.	0.	0.	3.19-13	2.91-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	4.52-10	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.83-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	5.72-14
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.91-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.67-10
1.20 02	0.	0.	0.	0.	0.	0.	2.20-14	1.35-11
1.40 02	0.	0.	0.	0.	0.	0.	5.82-15	1.34-12
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.	2.73-11	6.62-11
	0.	0.	0.	0.	0.	0.	2.72-11	4.15-11

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.	3.71-12
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.	3.42-13
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.	7.35-13
	0.	0.	0.	0.	0.	0.	0.	6.50-13

261452234735 250777034205

AIR SCATTERING 1.18 02 ENERGY 4.00 ANGLE -9.00-01 DIST. 3.05 03
2.90 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.	1.72-09
0.	0.	0.	0.	0.	0.	0.	4.34-10
0.	0.	0.	0.	0.	0.	0.	1.89-10
0.	0.	0.	0.	0.	0.	0.	6.48-11
0.	0.	0.	0.	0.	0.	0.	2.53-12
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							2.51-10

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		
7.92-10	4.90-11	1.61-10	1.04-10	7.06-12	1.36-16	1.04-27	1.25-09	1.49-10
2.98-10	5.45-10	7.87-11	9.75-11	5.34-11	4.97-16	5.72-26	5.03-10	7.82-11
2.67-10	5.30-10	1.03-10	1.54-10	1.40-11	2.85-12	3.23-22	2.52-10	2.59-11
1.26-10	2.47-10	2.56-10	2.32-10	5.27-11	1.25-12	9.00-23	1.24-10	1.57-11
1.13-10	2.59-10	1.51-10	8.67-11	2.52-11	5.78-14	3.79-20	5.28-11	1.11-11
1.76-10	1.75-10	5.11-10	1.79-10	1.08-11	8.29-15	6.70-22	5.53-11	1.75-11
4.06-11	1.19-10	2.09-10	6.82-11	1.65-11	6.23-14	1.03-24	2.72-11	5.66-12
1.71-11	2.60-10	2.64-10	3.08-11	5.83-12	8.26-14	5.57-22	1.90-11	8.98-12
4.79-11	2.37-10	1.01-10	1.03-10	1.41-11	2.88-15	4.85-23	1.61-11	7.59-12
6.14-12	2.14-10	7.41-12	1.23-11	9.36-12	8.78-15	8.51-25	8.55-12	5.07-12
2.88-10	5.57-10	4.06-10	2.35-10	4.68-11	1.22-12	6.98-21		
4.32-11	1.22-10	1.03-10	5.08-11	1.62-11	1.14-12	6.62-21	3.06-10	2.04-11

PHI 45 TO 90 DEGREES

2.76-10	2.27-10	3.50-11	1.02-09	8.70-12	3.15-15	1.93-26	5.19-11	2.20-11
2.27-10	3.20-10	1.05-10	7.29-11	1.45-11	9.25-16	9.58-24	4.34-11	1.10-11
2.94-10	2.58-10	8.35-11	5.89-11	2.22-11	1.76-14	4.46-26	3.60-11	1.15-11
2.86-10	1.02-10	6.44-10	1.99-11	2.75-12	1.25-13	3.35-26	5.59-11	1.95-11
5.96-11	1.09-10	1.03-10	5.32-11	3.96-11	4.34-15	2.84-25	1.45-10	1.31-10
1.31-10	4.87-11	1.46-10	2.10-10	3.70-12	2.45-14	6.16-25	1.97-11	4.47-12
5.01-11	1.60-10	6.58-11	3.79-10	2.34-10	2.08-15	1.04-25	2.03-11	5.55-12
2.46-11	2.65-10	7.94-11	4.95-11	3.22-12	8.60-15	1.16-23	1.56-11	7.99-12
2.04-11	6.68-10	4.24-11	1.03-10	1.24-11	7.80-16	2.73-23	2.87-11	2.30-11
1.08-13	1.45-13	1.69-11	3.41-11	9.91-12	7.66-15	3.47-28	1.05-12	6.37-13
2.87-10	4.37-10	3.47-10	2.99-10	9.73-11	5.45-14	9.70-24		
7.29-11	1.37-10	1.43-10	1.14-10	7.40-11	3.85-14	5.22-24	8.29-11	2.46-11

PHI 90 TO 135 DEGREES

1.97-10	2.97-11	2.80-09	1.50-11	5.02-12	1.35-13	4.22-27	1.26-10	6.73-11
3.51-10	4.71-11	3.88-11	4.62-11	2.86-11	8.24-16	5.91-24	3.94-11	2.82-11
1.17-10	2.40-10	2.84-10	5.92-11	1.79-11	7.32-14	4.95-20	2.36-11	1.09-11
1.27-10	3.40-11	3.60-11	2.05-11	4.23-12	2.73-15	1.43-20	1.91-11	4.82-12
2.16-10	3.11-11	1.03-10	6.15-11	7.01-13	6.50-15	2.93-22	1.78-11	8.68-12
2.21-11	2.83-11	4.81-11	3.38-10	9.19-13	3.56-16	8.18-20	2.19-11	1.41-11
6.72-11	1.84-10	4.77-11	5.52-11	1.21-11	8.24-15	2.04-25	1.39-11	4.22-12
2.67-10	1.81-10	4.08-11	2.26-10	2.38-11	8.59-14	1.63-24	2.73-11	1.48-11
1.33-11	1.47-11	5.88-11	1.34-10	1.58-11	6.08-14	3.96-22	4.45-12	1.94-12
2.56-13	5.38-12	2.10-09	1.48-10	1.04-12	4.86-16	2.25-22	5.28-11	5.03-11
2.82-10	2.06-10	4.48-10	2.11-10	2.48-11	6.59-14	3.22-20		
8.94-11	6.29-11	1.93-10	7.65-11	6.87-12	2.95-14	1.97-20	4.66-11	1.02-11

PHI 135 TO 180 DEGREES

4.19-10	2.71-10	7.67-11	5.89-11	2.29-11	1.90-16	1.52-30	3.79-11	1.19-11
6.25-10	1.45-10	1.30-10	3.31-11	5.76-12	4.93-15	4.57-27	4.64-11	3.50-11
2.69-10	3.02-10	2.68-11	5.21-11	2.38-11	1.13-15	9.72-24	2.87-11	2.14-11
2.58-10	7.65-11	3.66-11	2.53-11	9.60-12	4.80-15	7.24-24	1.96-11	1.23-11
1.84-11	4.81-10	1.26-10	2.16-10	1.15-11	2.08-15	1.73-22	2.51-11	1.39-11
5.94-11	1.12-10	4.40-10	1.76-11	1.22-11	3.75-15	8.32-22	1.86-11	1.33-11
6.29-11	6.89-11	2.89-11	2.39-10	8.48-12	4.69-14	1.61-25	1.06-11	3.59-12
7.03-11	8.09-11	1.57-09	5.38-11	5.12-11	4.78-15	1.71-25	4.63-11	3.66-11
3.86-11	6.38-11	3.13-12	7.39-11	4.04-11	9.02-14	4.55-25	6.28-12	3.06-12
1.38-10	1.96-12	3.03-11	2.25-12	2.87-13	1.35-15	9.86-34	9.11-12	6.47-12
3.57-10	3.05-10	5.75-10	1.77-10	3.94-11	3.61-14	1.80-22		
1.38-10	1.05-10	4.11-10	6.87-11	1.34-11	1.66-14	1.47-22	4.94-11	1.45-11
							7.62-10	6.51-11

AIR SCATTERING 1.19 02 ENERGY 4.00 ANGLE 1.35 02 DIST. 3.05 03
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.	0.	0.	1.46-08	0.
4.00 01	0.	0.	0.	0.	0.	0.	2.29-10	2.20-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.28-12
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.	9.20-10	3.84-10

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.	9.84-09	1.17-09
4.00 01	0.	0.	0.	0.	0.	0.	4.64-10	2.23-09
6.00 01	0.	0.	0.	0.	0.	0.	1.61-12	3.10-10
8.00 01	0.	0.	0.	0.	0.	0.	1.60-14	1.36-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	7.62-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	6.05-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.44-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	4.97-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.57-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	6.75-10	6.10-10
	0.	0.	0.	0.	0.	0.	6.18-11	4.76-11

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	8.94-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.30-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.11-10
8.00 01	0.	0.	0.	0.	0.	1.73-13	0.	3.06-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.70-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	4.90-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.77-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	8.38-14
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	5.64-14	0.	1.85-10
	0.	0.	0.	0.	0.	5.64-14	0.	3.68-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	3.65-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.89-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.28-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.98-11
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.	1.77-10
	0.	0.	0.	0.	0.	0.	0.	7.09-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.39-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	7.20-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.03-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	8.03-13
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.	0.	4.31-11
	0.	0.	0.	0.	0.	0.	0.	1.86-11

064112660405 017422063101

AIR SCATTERING 1.19 02 ENERGY 4.00 ANGLE 1.35 02 DIST. 3.05 03

2.90 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.	1.46-09	
0.	0.	0.	0.	0.	0.	0.	1.99-10	
0.	0.	0.	0.	0.	0.	0.	2.62-13	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							1.23-10	

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		
3.63-10	9.50-11	1.81-10	1.58-10	2.97-11	3.86-15	3.79-26	1.11-09	1.04-10
3.00-10	3.60-10	1.70-10	8.94-11	1.14-11	4.72-15	1.23-25	2.62-10	1.94-11
9.23-11	1.18-10	6.94-10	4.25-10	7.01-11	1.89-13	2.54-23	5.86-11	1.70-11
5.39-11	9.63-11	2.50-10	1.01-10	4.88-11	5.87-14	2.73-23	2.57-11	5.77-12
4.89-11	1.12-10	6.04-11	9.85-11	3.12-11	1.64-13	6.07-23	1.64-11	4.69-12
1.03-10	1.18-10	6.91-10	3.78-11	1.51-11	2.09-13	1.26-25	3.26-11	1.21-11
9.60-11	4.26-10	4.37-10	1.25-10	3.32-11	2.43-13	3.54-27	3.40-11	1.64-11
2.32-11	3.08-10	7.13-11	1.71-10	8.13-12	1.94-13	1.08-25	1.69-11	9.50-12
1.08-11	6.22-11	2.34-10	6.91-11	1.56-10	7.07-14	1.18-27	1.18-11	5.56-12
1.01-10	1.44-12	7.74-10	9.09-11	1.56-10	1.64-11	2.57-23	2.80-11	1.63-11
1.88-10	4.03-10	6.86-10	2.98-10	9.59-11	1.27-12	2.78-23		
2.88-11	1.88-10	2.66-10	1.07-10	3.82-11	9.89-13	1.43-23	1.64-10	1.38-11

PHI 45 TO 90 DEGREES

2.96-10	1.07-10	8.27-11	1.88-10	1.73-11	5.38-14	6.37-26	9.81-11	3.61-11
1.86-10	2.53-10	6.65-10	2.18-10	1.60-11	1.16-13	3.70-22	6.61-11	1.43-11
6.03-11	9.44-11	1.74-10	1.36-09	1.19-11	2.63-12	1.11-23	4.86-11	1.58-11
1.02-10	1.23-10	2.79-10	2.38-10	3.54-12	1.20-13	3.25-23	2.33-11	5.77-12
1.26-10	3.73-10	6.20-11	1.13-10	7.02-12	5.70-14	1.96-23	2.72-11	1.31-11
5.12-11	6.27-11	1.65-10	2.33-10	1.29-11	1.73-14	1.44-23	1.33-11	4.26-12
8.19-11	8.33-11	9.34-11	4.28-11	6.54-12	7.65-14	1.65-24	1.09-11	3.25-12
9.31-11	5.51-11	5.94-11	2.94-11	2.24-12	2.85-13	2.28-24	9.47-12	3.73-12
1.15-11	2.03-09	1.92-11	3.69-11	1.59-12	8.61-17	6.22-30	7.46-11	7.23-11
4.24-11	4.84-11	7.76-10	9.11-11	7.43-12	1.10-13	3.28-21	2.44-11	1.47-11
1.86-10	5.88-10	3.93-10	5.82-10	1.51-11	8.83-13	2.82-22		
3.37-11	3.55-10	1.09-10	2.67-10	3.53-12	7.22-13	1.73-22	6.55-11	1.50-11

PHI 90 TO 135 DEGREES

1.20-10	1.48-10	4.94-10	7.78-11	1.07-11	7.38-13	1.49-26	5.48-11	2.04-11
2.41-10	1.58-10	1.69-09	3.29-11	9.83-12	1.10-13	1.94-21	1.01-10	4.40-11
1.42-10	1.19-10	9.24-11	1.09-09	3.77-11	1.63-11	1.71-24	5.02-11	2.10-11
1.81-10	7.27-11	4.68-11	4.91-11	1.37-11	2.72-15	1.38-26	1.79-11	7.28-12
3.21-11	5.56-11	1.55-10	4.59-11	1.18-11	9.47-15	2.09-25	8.49-12	2.47-12
3.00-11	1.11-10	1.35-10	1.14-10	9.84-13	8.67-16	3.67-25	1.08-11	3.39-12
6.57-11	3.74-10	6.18-10	2.99-10	2.11-11	2.58-14	1.79-22	3.70-11	2.43-11
1.33-10	1.74-10	4.88-11	4.40-11	1.11-12	6.38-15	1.54-25	1.61-11	6.12-12
4.55-11	2.41-11	4.87-11	1.63-11	2.55-12	1.67-14	3.26-21	5.04-12	1.74-12
1.36-16	3.03-12	3.74-11	1.73-09	5.17-12	1.74-15	1.19-23	2.69-11	2.58-11
2.22-10	2.93-10	6.39-10	5.62-10	2.70-11	4.41-12	9.63-22		
5.37-11	1.04-10	3.21-10	2.89-10	1.03-11	4.29-12	6.61-22	6.22-11	1.42-11

PHI 135 TO 180 DEGREES

2.05-10	2.42-10	4.51-10	2.90-11	9.30-12	7.42-14	5.40-24	5.15-11	2.25-11
2.32-10	6.18-10	1.92-10	5.18-11	3.88-11	2.96-15	1.13-24	4.78-11	1.96-11
1.44-10	5.24-11	6.86-11	8.09-10	1.01-11	4.37-16	7.73-28	2.91-11	1.09-11
6.91-11	1.03-10	3.07-10	5.03-11	8.29-11	6.19-14	2.50-23	1.70-11	6.04-12
9.33-11	1.73-09	1.75-10	9.05-10	1.15-11	8.23-15	8.32-24	8.60-11	5.54-11
4.00-11	8.78-11	2.13-11	1.07-10	3.33-11	3.35-14	1.71-24	8.08-12	3.30-12
4.34-11	1.52-10	2.17-10	1.03-10	2.78-11	4.69-15	6.82-25	1.52-11	4.84-12
2.50-11	1.55-11	7.99-11	4.09-11	5.00-12	7.66-16	1.74-23	4.65-12	1.76-12
9.17-12	1.16-11	8.36-10	1.08-10	1.77-12	7.03-16	3.68-29	2.27-11	1.94-11
1.02-11	1.30-10	7.46-12	1.86-13	3.97-13	4.52-16	4.15-24	5.46-12	3.28-12
1.60-10	5.49-10	4.51-10	4.79-10	5.56-11	3.45-14	1.55-23		
3.05-11	2.75-10	1.66-10	2.96-10	2.52-11	1.44-14	8.87-24	5.15-11	1.26-11
							5.39-10	5.73-11

AIR SCATTERING 1.20 02 ENERGY 4.00 ANGLE 1.80 02 DIST. 3.05 03
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.	2.03-08
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.	1.23-09

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.	2.50-11	1.53-08
4.00 01	0.	0.	0.	0.	0.	0.	7.87-15	2.30-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.63-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.24-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.14-13
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.	1.51-12	1.06-09
	0.	0.	0.	0.	0.	0.	9.01-13	9.24-11

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.61-11	1.38-09
4.00 01	0.	0.	0.	0.	0.	0.	1.59-16	3.07-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.25-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.94-12
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	4.04-12
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.	9.68-13	1.83-10
	0.	0.	0.	0.	0.	0.	5.81-13	4.16-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.38-13	1.35-09
4.00 01	0.	0.	0.	0.	0.	0.	3.95-12	3.06-10
6.00 01	0.	0.	0.	0.	0.	0.	1.05-11	7.32-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	4.51-12
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.	3.48-12	1.56-10
	0.	0.	0.	0.	0.	0.	2.86-12	2.75-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.15-11	1.50-09
4.00 01	0.	0.	0.	0.	0.	0.	6.13-15	6.03-10
6.00 01	0.	0.	0.	0.	0.	0.	2.01-12	1.58-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	7.54-12
9.00 01	0.	0.	0.	0.	0.	0.	0.	6.98-12
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.	7.57-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.63-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	1.83-12	2.57-10
	0.	0.	0.	0.	0.	0.	1.35-12	7.38-11

AIR SCATTERING 1.20 02 ENERGY 4.00 ANGLE 1.80 02 DIST. 3.05 03
2.10 01 1.72 03 0. 0. 4.95 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.	1.63-09
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.	
							9.81-11

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		
6.97-10	7.96-10	8.04-11	6.04-11	1.58-11	5.27-14	2.00-24	1.30-09	9.98-11
5.90-11	1.55-10	2.31-10	2.25-10	3.25-11	1.12-14	5.50-25	3.68-11	8.86-12
2.68-10	1.96-10	2.37-10	2.50-10	1.28-10	2.99-14	1.17-24	6.32-11	2.10-11
4.23-11	5.64-11	2.30-10	2.73-10	1.64-11	1.86-15	5.78-21	1.44-11	4.74-12
3.76-11	1.10-10	1.31-10	1.08-09	1.78-11	9.35-15	6.35-27	2.58-11	1.59-11
2.17-11	2.09-11	1.12-10	1.84-10	1.83-11	1.05-13	1.45-25	7.74-12	3.18-12
5.15-11	4.76-11	1.19-10	7.33-11	1.40-11	2.63-14	2.56-23	8.91-12	2.74-12
7.74-12	4.64-11	1.19-10	2.60-11	8.66-12	5.82-14	3.37-19	5.48-12	2.12-12
6.43-12	1.91-10	2.67-10	4.07-10	5.78-12	5.13-13	1.67-22	1.98-11	9.13-12
2.39-11	2.19-09	5.18-11	1.29-10	3.84-12	5.29-15	0.	8.37-11	7.79-11
1.69-10	3.62-10	3.45-10	5.27-10	6.05-11	1.47-13	9.17-20		
5.42-11	1.65-10	1.01-10	2.89-10	3.49-11	9.23-14	8.72-20	1.25-10	1.26-11

PHI 45 TO 90 DEGREES

1.65-10	4.96-10	8.29-11	9.80-11	8.42-12	6.81-14	1.13-24	1.59-10	3.69-11
1.28-10	1.83-10	5.93-11	1.04-10	6.03-12	7.22-14	8.12-22	4.18-11	1.08-11
6.48-11	1.52-10	2.78-10	3.98-11	5.22-12	1.64-15	3.04-23	2.67-11	8.75-12
8.23-11	1.08-10	1.23-10	7.99-11	1.41-11	5.56-14	1.94-25	1.33-11	4.03-12
2.34-11	4.10-11	1.18-10	1.38-11	3.47-11	4.63-14	1.28-25	6.35-12	2.46-12
1.27-11	3.74-11	1.17-10	6.17-11	3.75-12	3.21-14	3.14-23	6.20-12	2.23-12
4.72-11	4.48-11	3.75-11	2.92-10	1.05-11	7.84-15	2.41-22	9.84-12	4.31-12
5.53-11	8.84-11	5.01-11	9.19-11	3.00-12	1.21-13	5.22-25	9.12-12	3.67-12
3.37-11	9.60-11	2.41-10	5.35-10	8.25-12	2.28-13	2.10-25	1.94-11	1.00-11
8.13-14	1.18-11	2.40-12	6.80-11	1.62-11	5.24-15	3.38-29	1.70-12	7.35-13
1.18-10	2.07-10	2.38-10	2.90-10	2.09-11	1.23-13	2.34-22		
2.20-11	3.84-11	6.37-11	1.25-10	7.01-12	4.58-14	1.61-22	3.96-11	5.68-12

PHI 90 TO 135 DEGREES

4.90-10	1.97-10	1.49-10	2.73-10	2.97-12	1.10-15	7.14-25	1.52-10	3.55-11
1.20-10	2.18-10	1.64-10	6.03-10	8.96-12	1.25-14	1.73-25	5.30-11	1.08-11
1.54-10	2.25-10	2.66-10	9.96-11	6.17-11	8.60-14	1.87-22	3.30-11	9.63-12
1.90-10	7.77-11	1.70-10	5.10-11	2.68-11	3.00-14	9.13-24	1.97-11	7.26-12
1.71-10	1.41-10	4.09-10	1.34-11	6.32-12	4.88-16	1.37-26	2.54-11	1.12-11
9.48-10	6.84-11	1.85-10	3.74-11	2.09-11	1.50-15	8.92-25	6.46-11	5.48-11
2.84-10	5.38-11	1.94-09	1.77-09	5.51-12	7.11-14	2.61-24	9.21-11	7.28-11
1.10-11	5.18-11	6.95-11	1.21-11	4.82-13	5.87-15	2.80-22	4.38-12	1.96-12
1.26-11	8.96-11	5.34-11	8.55-12	3.55-12	2.17-15	5.22-26	5.44-12	3.14-12
0.	6.86-12	2.78-11	1.06-10	1.83-11	1.11-12	3.51-27	2.74-12	1.44-12
4.45-10	2.18-10	9.30-10	7.61-10	3.53-11	1.28-13	1.28-22		
1.87-10	5.20-11	6.23-10	5.79-10	1.93-11	6.98-14	8.97-23	8.16-11	2.63-11

PHI 135 TO 180 DEGREES

2.78-10	2.42-10	6.81-11	2.90-10	7.85-12	5.06-15	1.25-30	1.54-10	2.92-11
1.00-10	1.27-10	9.05-11	8.71-11	2.62-11	2.45-14	1.33-27	6.98-11	3.11-11
7.39-11	1.89-10	4.30-10	1.46-10	2.88-11	8.50-14	8.01-27	3.69-11	9.65-12
1.44-10	8.76-11	7.58-11	1.26-10	2.98-11	7.19-14	5.43-24	1.65-11	4.41-12
2.51-10	1.22-11	3.60-10	3.62-10	5.11-11	1.89-15	3.41-26	3.07-11	1.31-11
5.91-12	6.86-11	1.51-10	1.37-10	3.11-12	5.05-14	4.71-22	8.56-12	3.55-12
3.80-10	2.56-11	2.07-11	4.43-11	6.98-12	3.87-13	3.01-22	2.49-11	1.93-11
1.48-11	3.79-11	2.30-10	1.33-11	8.96-12	2.21-13	9.63-32	8.15-12	5.11-12
0.	3.70-11	1.68-12	6.43-12	9.05-12	2.04-16	3.90-28	1.59-12	9.35-13
0.	0.	2.99-11	5.99-12	9.67-12	3.11-12	0.	9.48-13	6.55-13
2.73-10	1.54-10	3.18-10	2.19-10	3.86-11	4.32-13	1.82-22		
1.12-10	3.38-11	1.06-10	7.38-11	1.32-11	2.57-13	1.28-22	5.41-11	9.85-12
							4.71-10	5.93-11

AIR SCATTERING 1.21 02 ENERGY 2.00 ANGLE 1.00 DIST. 3.05 03
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	3.94-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	1.76-07	6.23-07	1.70-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	3.32-07	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	1.66-07	2.02-07	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	3.32-07	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	3.59-07	0.	0.
1.40 02	0.	0.	0.	0.	0.	3.65-07	0.	0.
1.60 02	0.	0.	0.	0.	0.	2.04-07	4.21-07	0.
1.80 02	0.	0.	0.	0.	0.	0.	1.93-06	0.
	2.68-07	1.08-07	1.18-07	5.43-08	1.24-07	2.50-07	1.89-07	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	2.51-06	0.	0.	1.40-09	2.55-10	0.	0.	6.23-09
4.00 01	1.12-07	3.97-07	1.08-07	0.	0.	0.	1.55-10	3.49-10
6.00 01	0.	0.	2.12-07	0.	0.	1.82-10	3.74-10	3.59-09
8.00 01	0.	0.	0.	1.06-07	1.29-07	0.	8.93-10	1.63-09
9.00 01	0.	0.	0.	0.	0.	0.	3.11-09	1.38-09
1.00 02	0.	0.	0.	0.	2.11-07	0.	5.59-10	5.84-10
1.20 02	0.	0.	0.	0.	0.	2.29-07	4.66-10	1.36-09
1.40 02	0.	0.	0.	0.	0.	2.32-07	6.94-10	1.68-09
1.60 02	0.	0.	0.	0.	0.	1.30-07	2.71-07	9.70-10
1.80 02	0.	0.	0.	0.	0.	2.30-10	1.26-06	1.47-09
	1.71-07	6.89-08	7.51-08	3.47-08	7.87-08	1.59-07	1.25-07	3.41-09
	2.64-08	3.98-08	3.75-08	3.46-08	5.57-08	6.62-08	2.48-08	8.69-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	6.00-09	0.	6.38-10	5.25-10	1.58-09	2.11-09
4.00 01	0.	0.	0.	0.	0.	8.29-11	1.29-10	1.80-09
6.00 01	0.	0.	0.	0.	0.	0.	4.27-10	5.75-10
8.00 01	0.	0.	0.	0.	0.	0.	8.03-11	1.83-09
9.00 01	0.	0.	0.	0.	0.	0.	3.28-10	5.64-09
1.00 02	0.	0.	0.	0.	0.	0.	2.07-10	7.84-10
1.20 02	0.	0.	0.	0.	0.	0.	7.95-10	1.29-09
1.40 02	0.	0.	0.	0.	0.	0.	1.64-09	4.70-10
1.60 02	0.	0.	0.	0.	0.	3.10-13	4.02-09	9.32-10
1.80 02	0.	0.	0.	6.86-16	7.26-13	2.51-12	5.88-09	1.06-08
	0.	0.	3.62-10	4.13-17	3.85-11	4.63-11	2.10-09	3.65-09
	0.	0.	3.62-10	4.13-17	2.73-11	2.73-11	5.57-10	1.33-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	3.91-09	0.	0.	0.	0.	1.45-08
4.00 01	0.	0.	7.89-09	0.	0.	0.	1.04-10	5.32-10
6.00 01	0.	0.	0.	0.	0.	0.	8.20-11	4.02-10
8.00 01	0.	0.	0.	0.	0.	0.	2.42-10	4.36-10
9.00 01	0.	0.	0.	0.	0.	0.	1.96-10	1.08-09
1.00 02	0.	0.	0.	0.	0.	2.63-11	1.50-10	4.69-10
1.20 02	0.	0.	0.	0.	0.	6.71-13	1.12-09	7.26-10
1.40 02	0.	0.	0.	0.	0.	7.42-14	3.43-10	3.68-10
1.60 02	0.	0.	0.	0.	7.20-14	1.63-12	8.11-09	1.58-10
1.80 02	0.	0.	0.	0.	1.08-11	3.88-10	5.10-09	3.80-10
	0.	0.	1.61-09	0.	6.62-13	2.85-11	2.35-09	1.87-09
	0.	0.	1.39-09	0.	5.06-13	2.29-11	1.30-09	6.34-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.36-10	8.93-09
4.00 01	0.	0.	0.	0.	9.50-10	1.61-10	0.	5.22-10
6.00 01	0.	0.	0.	0.	0.	5.56-11	1.24-10	3.21-09
8.00 01	0.	0.	0.	0.	0.	0.	7.81-11	3.39-10
9.00 01	0.	0.	0.	0.	0.	0.	1.45-11	1.71-09
1.00 02	0.	0.	0.	0.	0.	0.	1.02-10	4.31-10
1.20 02	0.	0.	0.	0.	3.55-12	6.55-12	4.20-10	6.94-10
1.40 02	0.	0.	0.	0.	0.	5.33-11	1.86-09	6.92-10
1.60 02	0.	0.	0.	0.	1.14-13	2.65-10	6.87-10	3.16-09
1.80 02	0.	0.	0.	0.	5.31-13	3.60-11	1.83-09	3.17-10
	0.	0.	0.	0.	1.66-10	1.07-10	9.55-10	2.94-09
	0.	0.	0.	0.	1.65-10	5.64-11	2.50-10	8.18-10

0432473224 5 1 372707403571

AIR SCATTERING 1.21 02 ENERGY 2.00 ANGLE 1.00 DIST. 3.05 03

3.70 01 1.74 03 0. 0. 5.46 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.	2.37-06
0.	0.	0.	0.	0.	0.	0.	3.60-07
0.	0.	0.	0.	0.	0.	0.	1.33-07
0.	0.	0.	0.	0.	0.	0.	6.36-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	4.97-08
0.	0.	0.	0.	0.	0.	0.	3.95-08
0.	0.	0.	0.	0.	0.	0.	4.01-08
0.	0.	0.	0.	0.	0.	0.	5.19-08
0.	0.	0.	0.	0.	0.	0.	1.35-07
0.	0.	0.	0.	0.	0.	0.	
							3.11-07

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		
5.26-10	5.92-11	6.33-11	9.68-12	3.21-12	3.84-17	6.03-28	1.51-06	2.25-07
1.87-10	2.26-10	4.89-10	7.04-11	4.30-12	3.67-16	1.38-27	2.29-07	9.40-08
1.29-09	1.73-10	6.67-10	1.50-10	2.04-12	2.58-16	5.56-24	8.50-08	4.88-08
1.91-10	2.97-09	2.98-10	2.26-10	3.04-11	1.71-14	7.63-23	4.07-08	2.87-08
2.90-09	1.80-10	1.02-10	9.97-11	5.39-11	1.29-15	5.15-23	3.99-10	3.01-10
4.63-10	1.46-09	8.66-10	1.82-10	1.28-10	4.65-15	5.44-22	3.18-08	3.17-08
4.16-10	3.26-10	3.15-10	1.25-09	1.12-11	1.12-15	8.86-25	2.53-08	1.79-08
2.58-10	5.22-10	2.05-10	9.39-11	1.69-11	8.84-16	1.64-21	2.57-08	1.50-08
1.04-09	6.90-10	3.74-10	4.16-10	2.71-11	3.20-12	1.29-20	3.33-08	1.33-08
4.75-10	6.10-10	2.76-10	2.27-11	1.20-09	4.51-17	2.53-28	8.87-08	1.48-08
1.47-09	1.74-09	7.70-10	6.78-10	1.28-10	5.64-13	2.81-21		
5.59-10	8.04-10	2.17-10	2.91-10	7.55-11	5.56-13	2.62-21	1.98-07	2.79-08

PHI 45 TO 90 DEGREES

1.01-10	3.02-11	2.60-09	1.08-10	2.33-13	1.99-16	1.34-21	2.83-09	2.40-09
4.22-09	2.59-11	2.70-11	1.29-10	3.45-13	1.34-13	2.00-29	2.62-10	1.57-10
1.22-09	3.39-10	2.21-10	9.55-11	1.80-12	3.54-18	5.71-26	1.16-10	3.97-11
7.95-10	2.77-10	1.52-10	1.04-10	1.92-12	2.32-15	3.82-24	1.36-10	6.03-11
9.71-10	2.23-10	2.53-10	5.33-11	2.74-12	1.42-15	3.76-20	3.51-10	2.77-10
4.96-09	9.71-11	2.73-10	5.06-11	5.67-12	2.45-15	8.44-21	2.41-10	1.65-10
5.00-10	4.54-10	6.06-10	4.33-10	3.66-11	2.30-13	1.25-21	1.66-10	5.92-11
1.03-09	3.11-09	5.26-10	3.53-11	8.21-11	6.27-16	3.71-23	2.62-10	9.58-11
1.31-10	2.69-10	6.18-10	3.06-10	1.72-12	1.04-15	6.23-20	3.55-10	1.73-10
7.27-10	4.97-10	4.44-10	1.01-09	2.91-12	1.01-15	4.61-28	9.98-10	5.31-10
2.85-09	1.30-09	8.32-10	3.71-10	3.69-11	1.00-13	1.93-20		
1.11-09	4.50-10	2.03-10	1.19-10	2.01-11	7.85-14	1.36-20	6.40-10	1.73-10

PHI 90 TO 135 DEGREES

1.10-09	3.31-10	2.59-10	1.31-10	1.26-12	7.08-19	3.11-25	2.34-09	1.64-09
2.02-10	3.05-10	2.74-10	5.60-10	7.92-13	4.66-17	1.34-23	3.21-09	3.15-09
8.82-10	2.01-10	1.60-10	2.49-10	1.44-11	2.16-17	1.32-21	6.83-11	2.18-11
2.32-10	3.77-10	7.10-10	4.93-11	7.15-12	2.95-16	4.99-25	7.09-11	2.15-11
3.29-09	1.06-10	9.23-11	1.79-10	1.07-11	3.16-16	1.21-24	1.93-10	9.42-11
7.56-10	1.69-10	1.47-10	5.62-10	1.60-12	1.82-15	4.39-19	7.67-11	2.17-11
2.36-10	1.88-10	4.24-10	6.79-10	3.96-12	2.63-16	1.86-25	1.43-10	5.87-11
4.09-10	7.35-10	2.44-10	7.54-10	1.72-11	5.44-15	7.84-19	8.74-11	2.09-11
3.11-10	7.45-10	1.29-09	4.67-10	2.48-11	3.32-16	2.55-22	6.35-10	5.10-10
2.80-09	2.40-10	4.07-10	7.35-11	2.97-12	3.80-15	3.48-27	5.36-10	1.58-10
1.52-09	6.98-10	8.31-10	8.24-10	1.89-11	2.30-15	2.85-19		
4.66-10	1.58-10	2.13-10	3.68-10	5.72-12	1.29-15	2.22-19	1.00-09	5.64-10

PHI 135 TO 180 DEGREES

6.87-10	3.78-11	1.18-10	7.31-10	1.21-11	3.65-16	6.49-27	4.98-10	2.31-10
1.94-09	8.04-10	1.04-10	1.04-10	3.46-12	1.37-14	1.17-23	2.79-10	1.55-10
3.10-10	4.31-10	3.67-10	1.37-10	1.11-11	1.50-13	1.84-20	2.06-10	1.02-10
1.63-09	2.12-10	8.16-10	1.26-10	7.57-11	8.49-16	1.90-24	1.05-10	3.84-11
5.59-10	4.78-10	4.24-10	2.84-10	2.04-10	4.50-16	2.64-25	1.31-10	6.65-11
2.88-10	6.36-10	2.68-10	3.14-10	1.60-12	1.40-15	1.41-20	6.29-11	2.04-11
4.63-10	2.34-09	7.00-09	2.35-10	2.46-10	1.54-16	1.71-25	2.83-10	1.41-10
4.96-10	3.95-10	3.26-10	2.15-10	9.47-12	4.97-16	2.62-23	2.07-10	6.20-11
9.92-10	9.71-10	1.77-09	1.04-10	6.90-12	3.03-13	5.05-23	3.31-10	1.74-10
1.25-09	2.16-09	2.04-10	1.29-10	2.69-12	6.16-14	4.30-21	2.51-10	7.25-11
1.67-09	1.69-09	3.20-09	4.04-10	1.49-10	9.94-14	7.62-21		
6.11-10	7.11-10	2.25-09	9.62-11	8.98-11	6.73-14	5.47-21	4.21-10	7.80-11
							3.15-07	4.39-08

AIR SCATTERING 1.22 02 ENERGY 2.00 ANGLE 1.50 01 DIST. 3.05 03
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	1.11-07	9.41-08	0.	0.	0.	0.	0.	0.
4.00 01	0.	9.28-09	3.00-08	0.	0.	0.	0.	0.
6.00 01	0.	0.	2.28-09	2.08-08	0.	0.	0.	0.
8.00 01	0.	0.	0.	1.32-09	1.76-08	0.	0.	0.
9.00 01	0.	0.	0.	0.	1.02-08	6.40-09	0.	0.
1.00 02	0.	0.	0.	0.	0.	1.96-08	0.	0.
1.20 02	0.	0.	0.	0.	0.	1.68-08	0.	0.
1.40 02	0.	0.	0.	0.	0.	1.44-08	5.36-09	0.
1.60 02	0.	0.	0.	0.	0.	0.	2.72-08	0.
1.80 02	0.	0.	0.	0.	0.	0.	1.78-09	0.
	6.70-09	7.29-09	5.81-09	5.96-09	7.50-09	1.38-08	6.25-09	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	7.07-08	5.99-08	0.	0.	1.17-09	0.	0.	2.61-09
4.00 01	0.	5.91-09	1.91-08	0.	0.	3.08-10	1.22-09	1.93-09
6.00 01	0.	0.	1.45-09	1.32-08	0.	2.04-10	9.77-10	1.51-09
8.00 01	0.	0.	0.	8.40-10	1.12-08	1.19-09	3.09-10	5.64-10
9.00 01	0.	0.	0.	0.	6.49-09	4.08-09	6.54-11	3.85-10
1.00 02	0.	0.	0.	0.	0.	1.42-08	2.30-09	1.18-09
1.20 02	0.	0.	0.	0.	0.	1.10-08	1.26-09	5.17-10
1.40 02	0.	0.	0.	0.	0.	9.16-09	5.23-09	1.06-09
1.60 02	0.	0.	0.	0.	0.	2.71-10	2.28-08	5.67-10
1.80 02	0.	0.	0.	5.00-14	9.05-13	8.20-12	8.13-09	4.98-10
	4.26-09	4.64-09	3.70-09	3.79-09	4.84-09	9.75-09	7.23-09	1.93-09
	3.61-10	6.62-10	5.33-10	7.39-10	8.70-10	1.08-09	6.71-10	3.41-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	8.63-10	0.	0.	3.92-10
4.00 01	0.	0.	0.	0.	0.	1.62-10	0.	1.63-09
6.00 01	0.	0.	0.	0.	0.	0.	4.26-10	2.01-09
8.00 01	0.	0.	0.	0.	0.	0.	1.63-10	9.80-10
9.00 01	0.	0.	0.	0.	0.	1.01-08	6.79-11	6.46-10
1.00 02	0.	0.	0.	0.	0.	0.	1.80-10	4.30-10
1.20 02	0.	0.	0.	0.	0.	5.06-12	1.91-09	7.21-10
1.40 02	0.	0.	0.	0.	0.	7.39-12	9.45-10	3.72-10
1.60 02	0.	0.	0.	0.	2.39-12	1.95-11	2.10-09	6.29-10
1.80 02	0.	0.	0.	0.	3.25-12	1.97-13	5.59-09	8.92-10
	0.	0.	0.	0.	5.26-11	1.79-09	1.78-09	1.85-09
	0.	0.	0.	0.	3.71-11	1.75-09	6.41-10	4.12-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	2.29-10	2.40-09	3.98-11
4.00 01	0.	0.	0.	0.	0.	0.	4.35-10	3.77-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	7.13-10
8.00 01	0.	0.	0.	0.	0.	1.44-10	2.94-11	2.62-10
9.00 01	0.	0.	0.	0.	0.	0.	2.33-11	5.61-10
1.00 02	0.	0.	0.	0.	0.	0.	9.48-10	1.06-09
1.20 02	0.	0.	0.	0.	0.	2.21-11	3.84-10	6.31-10
1.40 02	0.	0.	0.	0.	0.	3.03-13	2.62-09	4.00-10
1.60 02	0.	0.	0.	0.	3.68-13	1.49-12	3.02-09	3.71-10
1.80 02	0.	0.	0.	0.	2.29-12	8.18-11	3.84-10	2.10-10
	0.	0.	0.	0.	2.02-13	7.33-11	1.77-09	1.01-09
	0.	0.	0.	0.	1.52-13	4.96-11	6.19-10	2.13-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	6.23-10	1.74-09	0.	0.	0.	1.01-09
4.00 01	0.	0.	0.	4.10-09	3.84-10	8.47-09	7.76-10	1.16-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.78-10
8.00 01	0.	0.	0.	0.	0.	4.82-10	3.51-11	2.65-10
9.00 01	0.	0.	0.	0.	0.	0.	2.75-12	4.32-10
1.00 02	0.	0.	0.	0.	0.	0.	3.91-13	3.93-10
1.20 02	0.	0.	0.	0.	0.	2.21-11	6.94-11	2.89-10
1.40 02	0.	0.	0.	0.	0.	5.28-14	2.80-09	2.17-10
1.60 02	0.	0.	0.	0.	0.	3.55-12	2.23-09	1.09-09
1.80 02	0.	0.	0.	0.	0.	1.18-11	6.53-10	3.30-10
	0.	0.	3.76-11	8.16-10	6.66-11	1.64-09	1.34-09	9.28-10
	0.	0.	3.76-11	7.19-10	6.66-11	1.48-09	7.94-10	2.16-10

304260651335 2301227450 41

AIR SCATTERING 1.22 D2 ENERGY 2.00 ANGLE 1.50 01 DIST. 3.05 03
2.90 01 1.76 03 0. 0. 5.41 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.	9.49-08
0.	0.	0.	0.	0.	0.	0.	1.48-08
0.	0.	0.	0.	0.	0.	0.	5.07-09
0.	0.	0.	0.	0.	0.	0.	2.90-09
0.	0.	0.	0.	0.	0.	0.	2.23-09
0.	0.	0.	0.	0.	0.	0.	2.15-09
0.	0.	0.	0.	0.	0.	0.	1.85-09
0.	0.	0.	0.	0.	0.	0.	1.96-09
0.	0.	0.	0.	0.	0.	0.	1.90-09
0.	0.	0.	0.	0.	0.	0.	1.25-10
0.	0.	0.	0.	0.	0.	0.	1.28-08

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		
1.66-09	4.27-10	5.16-10	5.52-11	4.79-12	2.35-16	2.21-27	6.08-08	4.54-09
5.56-10	2.73-10	1.54-10	3.21-11	5.90-13	9.70-14	3.74-25	9.65-09	1.29-09
1.06-09	6.13-10	3.49-10	1.12-10	4.29-12	2.13-16	3.37-24	3.45-09	6.09-10
4.41-10	8.32-10	3.82-10	7.73-11	5.70-12	6.39-16	1.48-20	2.07-09	4.20-10
1.96-09	1.89-10	9.27-11	5.03-11	5.42-12	1.85-16	1.38-20	1.52-09	4.13-10
6.19-10	2.32-10	6.40-11	5.76-11	6.76-12	1.49-13	2.02-19	1.81-09	4.29-10
8.31-10	2.96-10	2.44-10	1.94-10	2.97-12	3.81-15	3.13-21	1.37-09	2.11-10
2.14-09	8.69-10	1.46-09	1.88-10	5.84-12	8.68-16	1.16-25	1.56-09	1.73-10
1.08-09	5.51-10	2.29-10	1.06-09	1.57-11	6.21-16	3.29-25	1.72-09	1.39-10
8.56-10	7.32-10	3.72-10	1.93-11	5.25-11	1.03-14	1.71-26	6.51-10	3.30-10
2.15-09	1.05-09	8.34-10	3.82-10	1.39-11	4.53-14	4.34-20		
5.43-10	2.03-10	2.43-10	1.78-10	4.89-12	3.09-14	3.68-20	8.71-09	4.11-10

PHI 45 TO 90 DEGREES

1.47-09	5.36-11	3.21-11	1.01-10	1.11-11	6.08-18	5.60-24	2.05-10	1.05-10
1.67-10	4.57-10	9.40-11	5.80-11	5.66-11	5.76-17	5.96-20	1.19-10	3.59-11
2.17-10	2.32-10	2.11-10	2.67-11	8.74-12	2.04-15	1.26-23	1.48-10	8.49-11
2.56-10	6.91-10	1.94-10	1.40-10	4.20-11	1.84-13	7.09-25	9.19-11	3.15-11
5.70-10	2.66-10	6.95-10	2.57-10	3.71-11	9.64-18	5.16-26	1.19-09	1.11-09
2.69-10	6.43-10	3.02-10	3.33-10	9.05-12	5.92-17	9.78-25	6.87-11	1.87-11
5.27-10	4.98-10	4.92-10	5.78-11	1.90-11	3.46-16	4.71-24	2.15-10	1.16-10
4.70-10	8.11-10	4.28-10	7.13-11	4.61-12	2.26-14	4.54-21	1.31-10	4.24-11
9.95-10	8.52-10	1.20-09	4.46-11	1.84-10	1.60-14	2.83-22	2.64-10	6.71-11
2.19-09	4.14-09	2.29-09	1.30-09	4.44-11	2.63-18	2.50-29	6.74-10	2.70-10
1.04-09	1.30-09	9.31-10	2.95-10	7.66-11	6.97-14	1.16-20		
3.16-10	3.69-10	2.30-10	8.85-11	3.59-11	6.04-14	1.04-20	5.13-10	2.00-10

PHI 90 TO 135 DEGREES

1.98-09	3.17-10	6.25-11	2.07-11	5.37-12	3.84-19	1.93-30	2.76-10	1.06-10
1.58-09	1.61-10	6.66-10	2.44-10	4.75-12	4.77-19	5.26-24	1.26-10	3.81-11
4.30-10	2.36-10	1.73-10	7.05-10	5.01-12	1.09-13	1.19-24	6.74-11	2.35-11
6.64-10	4.98-10	3.81-10	4.42-11	1.63-11	4.76-14	9.13-22	7.51-11	2.80-11
7.86-10	9.28-10	1.51-10	3.83-11	6.30-12	1.15-15	2.08-25	8.30-11	2.47-11
1.31-09	1.57-10	1.37-10	5.82-11	1.30-11	1.36-15	8.09-28	1.74-10	6.34-11
3.40-10	2.04-09	8.41-10	1.31-10	3.88-11	3.37-16	4.82-24	1.41-10	5.10-11
1.53-10	2.85-08	3.29-10	2.61-10	2.35-09	3.29-16	2.44-22	9.25-10	7.31-10
2.59-09	3.83-10	6.82-10	2.43-11	4.01-12	2.53-16	2.95-23	3.46-10	1.22-10
2.45-10	2.49-10	9.25-10	4.34-12	2.56-12	1.13-18	4.24-24	8.01-11	1.99-11
1.70-09	8.78-09	8.76-10	3.79-10	6.50-10	4.53-14	5.57-22		
5.81-10	6.60-09	2.44-10	2.02-10	6.15-10	3.14-14	3.88-22	4.82-10	1.99-10

PHI 135 TO 180 DEGREES

4.74-10	4.95-11	8.67-10	5.03-11	1.45-11	3.46-16	1.08-20	6.83-10	4.26-10
1.02-09	3.99-10	3.62-10	1.39-10	9.75-12	1.79-15	2.63-22	1.98-09	1.75-09
2.46-10	1.16-10	4.09-10	2.25-10	1.13-11	5.68-16	7.52-22	3.61-11	8.44-12
1.56-10	2.18-10	3.22-10	4.36-10	2.85-12	2.85-14	1.34-20	9.05-11	5.37-11
1.72-10	2.12-10	2.31-10	1.09-10	7.61-12	1.04-15	7.97-24	3.88-11	1.16-11
1.12-09	2.79-10	4.32-10	1.36-10	6.87-13	6.08-18	8.95-26	7.65-11	4.07-11
1.75-10	1.78-09	2.16-10	2.45-09	7.70-12	4.58-17	1.07-25	9.96-11	4.10-11
1.33-10	1.57-10	9.28-10	2.21-10	2.56-12	1.49-16	4.03-26	2.36-10	1.95-10
1.50-09	5.03-10	4.40-10	1.15-10	1.51-12	5.10-17	1.39-24	2.87-10	1.23-10
2.26-10	7.51-10	1.16-09	6.39-11	1.09-12	3.33-18	2.05-27	1.14-10	3.44-11
9.13-10	1.01-09	9.08-10	1.16-09	1.15-11	1.00-14	5.26-21		
2.60-10	4.50-10	2.43-10	7.68-10	3.52-12	9.18-15	4.60-21	5.96-10	3.12-10
							1.62-08	9.94-10

AIR SCATTERING 1.23 02 ENERGY 2.00 ANGLE 3.00 01 DIST. 3.05 03
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.	4.16-08	3.29-08	0.	0.	0.	0.	0.
4.00 01	0.	0.	5.40-09	1.16-08	0.	0.	0.	0.
6.00 01	0.	0.	0.	3.46-09	7.92-09	0.	0.	0.
8.00 01	0.	0.	0.	0.	4.79-09	3.91-09	0.	0.
9.00 01	0.	0.	0.	0.	0.	8.09-09	0.	0.
1.00 02	0.	0.	0.	0.	0.	7.18-09	0.	0.
1.20 02	0.	0.	0.	0.	0.	6.48-09	0.	0.
1.40 02	0.	0.	0.	0.	0.	2.84-10	6.92-09	0.
1.60 02	0.	0.	0.	0.	0.	0.	7.11-10	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	2.51-09	2.92-09	2.94-09	3.67-09	6.12-09	1.97-09	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.	2.65-08	2.09-08	0.	3.63-10	3.32-10	2.33-10	1.62-09
4.00 01	0.	0.	3.44-09	7.41-09	0.	8.97-10	3.57-10	1.48-09
6.00 01	0.	0.	0.	4.81-09	5.04-09	1.88-10	1.01-09	9.52-10
8.00 01	0.	0.	0.	0.	3.05-09	2.95-09	6.04-10	9.09-10
9.00 01	0.	0.	0.	0.	0.	5.45-09	4.68-09	1.32-09
1.00 02	0.	0.	0.	0.	0.	4.57-09	1.29-09	6.11-10
1.20 02	0.	0.	0.	0.	0.	5.46-09	1.33-09	3.75-09
1.40 02	0.	0.	0.	0.	0.	7.73-10	7.55-09	6.50-10
1.60 02	0.	0.	0.	0.	2.66-11	2.47-10	2.13-09	5.07-10
1.80 02	0.	0.	0.	0.	0.	7.48-11	3.94-10	1.86-10
	0.	1.60-09	1.86-09	2.57-09	2.36-09	4.97-09	4.41-09	2.74-09
	0.	1.93-10	1.85-10	6.18-10	2.99-10	4.40-10	6.78-10	9.72-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	6.16-10	4.74-10	5.38-10
4.00 01	0.	0.	0.	0.	0.	0.	1.45-10	7.03-10
6.00 01	0.	0.	0.	0.	2.77-10	1.72-10	1.98-10	7.80-10
8.00 01	0.	0.	0.	0.	0.	0.	2.90-10	2.94-10
9.00 01	0.	0.	0.	0.	0.	0.	5.02-10	2.02-10
1.00 02	0.	0.	0.	0.	0.	0.	8.77-12	7.59-10
1.20 02	0.	0.	0.	0.	0.	0.	3.63-10	2.77-10
1.40 02	0.	0.	0.	0.	8.32-15	2.27-12	2.77-10	8.00-10
1.60 02	0.	0.	0.	0.	0.	1.74-12	9.57-10	1.84-09
1.80 02	0.	0.	0.	0.	0.	2.13-10	2.73-10	1.43-10
	0.	0.	0.	0.	7.36-11	9.68-11	6.65-10	1.26-09
	0.	0.	0.	0.	7.36-11	5.45-11	1.61-10	3.14-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	3.25-10	3.42-09
4.00 01	0.	0.	0.	0.	0.	0.	1.88-10	2.50-10
6.00 01	0.	0.	0.	0.	0.	0.	3.57-11	2.07-10
8.00 01	0.	0.	0.	0.	0.	0.	1.11-10	4.92-10
9.00 01	0.	0.	0.	0.	0.	0.	1.29-10	4.85-10
1.00 02	0.	0.	0.	0.	0.	0.	1.01-14	2.90-10
1.20 02	0.	0.	0.	0.	0.	0.	6.99-11	2.04-10
1.40 02	0.	0.	0.	0.	4.16-15	2.51-12	8.71-11	6.69-10
1.60 02	0.	0.	0.	0.	0.	1.52-11	1.06-10	5.74-10
1.80 02	0.	0.	0.	0.	0.	8.42-14	4.85-10	2.38-09
	0.	0.	0.	0.	1.11-15	3.32-12	2.14-10	1.09-09
	0.	0.	0.	0.	1.11-15	2.56-12	6.93-11	2.76-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.44-09
4.00 01	0.	0.	0.	0.	0.	0.	8.13-10	3.22-10
6.00 01	0.	0.	0.	0.	0.	0.	5.16-11	6.01-10
8.00 01	0.	0.	0.	0.	0.	7.84-10	3.28-12	3.94-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	6.01-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	8.74-10
1.20 02	0.	0.	0.	0.	0.	0.	3.83-10	1.48-10
1.40 02	0.	0.	0.	0.	0.	4.08-13	2.90-11	2.82-10
1.60 02	0.	0.	0.	0.	0.	2.73-12	2.10-10	1.27-10
1.80 02	0.	0.	0.	0.	0.	6.59-13	4.69-10	2.33-11
	0.	0.	0.	0.	0.	2.56-10	3.53-10	8.01-10
	0.	0.	0.	0.	0.	2.56-10	1.41-10	2.47-10

266105644155 104176264535

AIR SCATTERING 1.23 02 ENERGY 2.00 ANGLE 3.00 01 DIST. 3.05 03
3.70 01 1.75 03 0. 0. 5.44 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.	2.56-08
0.	0.	0.	0.	0.	0.	0.	4.49-09
0.	0.	0.	0.	0.	0.	0.	1.88-09
0.	0.	0.	0.	0.	0.	0.	1.15-09
0.	0.	0.	0.	0.	0.	0.	8.90-10
0.	0.	0.	0.	0.	0.	0.	7.90-10
0.	0.	0.	0.	0.	0.	0.	7.13-10
0.	0.	0.	0.	0.	0.	0.	5.16-10
0.	0.	0.	0.	0.	0.	0.	4.98-11
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		
3.77-10	1.13-10	9.57-11	5.71-12	8.50-12	2.56-15	8.10-26	1.65-08	1.39-09
1.95-10	4.99-10	3.04-10	2.02-11	1.93-12	1.56-13	7.45-25	3.08-09	3.71-10
4.98-10	3.39-10	7.81-10	4.70-11	2.86-12	2.51-14	4.06-25	1.90-09	4.64-10
5.79-10	2.56-10	9.21-10	9.89-11	4.36-12	3.34-15	3.37-21	9.16-10	1.26-10
3.33-09	1.41-10	2.03-10	8.48-11	4.00-11	1.10-14	2.48-27	1.12-09	2.83-10
1.61-09	1.13-09	3.99-10	8.05-12	2.03-11	2.33-16	5.61-26	7.17-10	1.10-10
2.11-10	5.13-10	2.95-10	1.32-10	1.29-11	3.27-14	7.62-22	9.08-10	1.79-10
8.53-10	6.35-10	4.41-10	6.42-10	7.52-11	1.17-16	1.39-21	7.08-10	7.94-11
7.65-10	2.06-09	1.19-09	2.39-09	2.83-12	1.86-15	8.88-21	3.30-10	5.65-11
6.36-11	2.93-10	4.58-10	6.13-10	1.43-12	8.09-16	4.20-22	6.97-11	1.58-11
1.67-09	1.20-09	1.12-09	7.30-10	3.83-11	4.80-14	3.29-21		
4.77-10	3.11-10	3.45-10	3.73-10	1.87-11	2.96-14	1.94-21	3.20-09	1.86-10

PHI 45 TO 90 DEGREES

1.78-09	1.17-10	9.59-11	3.06-11	1.20-11	1.56-16	4.39-26	1.97-10	8.03-11
3.33-10	1.30-10	1.07-10	6.42-11	7.80-12	1.74-15	7.50-25	6.33-11	1.96-11
2.84-10	3.92-10	9.08-11	4.63-11	1.09-12	1.44-17	1.27-26	1.35-10	5.34-11
5.12-10	4.55-10	1.66-10	1.64-09	1.77-11	8.25-15	1.01-22	8.42-11	2.09-11
2.88-10	1.18-10	2.11-10	7.63-11	1.62-11	3.29-17	4.32-20	6.36-11	2.99-11
1.55-09	2.39-09	3.72-10	1.06-11	5.83-11	1.62-16	3.17-23	1.60-10	6.18-11
5.10-10	2.56-10	5.01-10	6.21-11	5.24-10	3.94-16	1.65-23	7.97-11	2.13-11
7.31-10	2.48-10	1.15-09	7.87-10	1.10-11	4.63-16	3.38-22	1.23-10	2.93-11
1.73-10	4.08-10	1.56-09	1.23-10	9.13-12	2.71-15	9.53-21	2.07-10	9.07-11
6.18-11	3.40-10	2.40-10	2.30-11	4.52-12	1.63-16	1.06-31	6.52-11	2.62-11
1.12-09	9.59-10	9.58-10	8.28-10	1.97-10	3.77-15	9.28-21		
2.91-10	2.52-10	2.83-10	5.62-10	1.66-10	2.00-15	7.22-21	2.24-10	3.05-11

PHI 90 TO 135 DEGREES

2.95-10	2.53-10	4.74-11	9.44-11	1.07-11	2.21-15	9.03-24	2.13-10	1.34-10
1.52-09	8.69-10	1.71-10	4.39-11	3.68-11	5.81-16	2.88-23	1.05-10	4.35-11
4.08-10	3.32-10	1.01-10	4.33-11	8.72-13	1.12-15	5.34-25	3.79-11	1.01-11
1.75-10	1.57-10	2.78-10	1.34-09	9.03-12	3.35-15	7.18-25	6.15-11	1.77-11
1.83-10	4.86-10	1.27-10	6.60-11	1.41-10	3.73-16	2.75-24	5.62-11	2.04-11
2.34-10	1.16-10	2.79-10	3.11-10	1.98-09	3.95-16	1.19-24	5.42-11	2.21-11
5.35-10	1.40-10	1.41-10	7.63-09	2.91-11	3.17-15	9.45-23	1.17-10	7.55-11
1.05-10	1.37-10	4.00-10	2.39-10	7.04-12	1.49-15	3.24-26	5.73-11	1.78-11
2.51-10	2.75-10	3.96-10	2.47-10	5.40-12	8.33-15	2.24-27	6.39-11	2.41-11
4.95-10	2.09-10	1.37-10	4.72-11	2.72-12	2.92-16	3.23-23	1.79-10	1.21-10
7.95-10	5.53-10	4.50-10	3.13-09	3.92-10	4.65-15	3.94-23		
2.21-10	1.51-10	8.68-11	2.81-09	3.34-10	1.71-15	2.36-23	1.56-10	3.75-11

PHI 135 TO 180 DEGREES

4.46-10	2.57-11	6.48-11	4.37-12	4.75-13	7.40-18	2.45-26	1.40-10	1.02-10
6.02-10	2.59-10	9.60-11	4.69-11	1.23-11	5.67-17	1.19-25	1.03-10	4.63-11
1.99-10	1.89-10	1.63-10	1.61-10	5.72-12	3.83-15	1.40-22	5.03-11	2.62-11
1.69-10	3.80-10	1.21-10	7.33-10	2.49-12	1.79-16	7.19-25	1.31-10	8.82-11
2.23-10	2.30-10	2.42-10	8.03-10	4.53-12	5.16-15	9.64-25	2.95-11	8.08-12
3.56-10	1.45-10	3.25-10	6.26-11	2.43-11	7.69-16	3.15-23	6.74-11	3.32-11
2.46-10	1.94-10	1.96-10	1.02-10	4.70-12	5.57-15	2.44-22	5.27-11	1.97-11
1.03-09	2.76-10	3.05-10	6.84-11	2.33-11	4.56-15	2.62-20	6.69-11	2.25-11
1.39-10	8.98-10	1.14-10	1.02-10	6.87-11	8.86-17	6.58-23	5.19-11	1.62-11
4.19-10	2.66-11	4.59-10	2.15-10	9.89-09	6.91-16	5.78-21	1.60-10	1.03-10
7.44-10	5.80-10	3.94-10	5.23-10	6.26-10	5.20-15	7.45-21		
1.80-10	1.32-10	7.82-11	2.26-10	5.97-10	1.97-15	7.01-21	1.53-10	3.53-11
							5.87-09	3.28-10

AIR SCATTERING 1.24 02 ENERGY 2.00 ANGLE 6.00 01 DIST. 3.05 03
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.	2.39-08	5.39-09	0.	0.	0.
4.00 01	0.	0.	0.	0.	8.76-09	0.	0.	0.
6.00 01	0.	0.	0.	0.	3.93-10	5.23-09	0.	0.
8.00 01	0.	0.	0.	0.	0.	3.52-09	0.	0.
9.00 01	0.	0.	0.	0.	0.	2.38-09	0.	0.
1.00 02	0.	0.	0.	0.	0.	1.64-10	2.31-09	0.
1.20 02	0.	0.	0.	0.	0.	0.	6.45-10	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.	1.44-09	1.95-09	2.98-09	6.12-10	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.	1.62-08	3.43-09	0.	5.62-10	6.88-10
4.00 01	0.	0.	0.	0.	6.23-09	4.19-10	8.62-10	1.29-09
6.00 01	0.	0.	0.	0.	3.21-10	4.08-09	1.00-09	2.68-09
8.00 01	0.	0.	0.	0.	0.	2.71-09	1.05-09	7.23-10
9.00 01	0.	0.	0.	0.	1.37-10	1.85-09	8.36-10	1.18-09
1.00 02	0.	0.	0.	0.	0.	5.41-10	2.89-09	2.87-10
1.20 02	0.	0.	0.	0.	1.19-12	1.41-10	1.38-09	1.34-10
1.40 02	0.	0.	0.	0.	0.	3.87-11	3.60-10	9.42-11
1.60 02	0.	0.	0.	0.	0.	5.34-13	9.04-10	9.82-10
1.80 02	0.	0.	0.	0.	0.	0.	1.71-10	4.27-11
	0.	0.	0.	9.76-10	1.40-09	2.51-09	2.15-09	1.71-09
	0.	0.	0.	1.18-10	1.59-10	2.16-10	2.02-10	4.96-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	4.68-09	0.	5.09-10
4.00 01	0.	0.	0.	0.	0.	7.27-11	1.32-10	1.11-09
6.00 01	0.	0.	0.	0.	0.	5.19-10	7.22-11	3.18-10
8.00 01	0.	0.	0.	0.	0.	0.	2.04-10	4.76-09
9.00 01	0.	0.	0.	0.	0.	0.	7.17-11	1.05-10
1.00 02	0.	0.	0.	0.	0.	0.	5.93-10	7.51-11
1.20 02	0.	0.	0.	0.	0.	4.38-11	5.11-10	1.26-09
1.40 02	0.	0.	0.	0.	0.	8.90-15	2.34-10	2.30-10
1.60 02	0.	0.	0.	0.	0.	7.59-13	5.48-11	2.11-10
1.80 02	0.	0.	0.	0.	0.	0.	1.48-10	7.50-11
	0.	0.	0.	0.	0.	4.47-10	4.72-10	2.40-09
	0.	0.	0.	0.	0.	2.82-10	1.54-10	1.53-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	3.42-10	0.	3.56-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	9.23-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.83-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.29-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.87-10
1.00 02	0.	0.	0.	0.	0.	0.	5.66-12	7.89-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.07-09
1.40 02	0.	0.	0.	0.	0.	0.	2.55-13	1.58-10
1.60 02	0.	0.	0.	0.	0.	1.80-12	3.94-11	5.99-10
1.80 02	0.	0.	0.	0.	0.	0.	2.13-12	1.72-10
	0.	0.	0.	0.	0.	2.10-11	8.02-12	2.66-09
	0.	0.	0.	0.	0.	2.06-11	4.12-12	1.58-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.62-09
4.00 01	0.	0.	0.	0.	0.	0.	1.85-10	3.39-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.76-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.01-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.40-11
1.00 02	0.	0.	0.	0.	0.	0.	2.65-12	5.11-10
1.20 02	0.	0.	0.	0.	0.	0.	6.17-12	2.76-10
1.40 02	0.	0.	0.	0.	0.	0.	1.53-13	9.70-11
1.60 02	0.	0.	0.	0.	0.	0.	8.46-12	1.34-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.05-11
	0.	0.	0.	0.	0.	0.	3.61-11	5.61-10
	0.	0.	0.	0.	0.	0.	3.22-11	1.36-10

230122745041 204355333135

AIR SCATTERING 1.24 02 ENERGY 2.00 ANGLE 6.00 01 DIST. 3.05 03

4.00 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.	5.59-09
0.	0.	0.	0.	0.	0.	0.	1.31-09
0.	0.	0.	0.	0.	0.	0.	6.34-10
0.	0.	0.	0.	0.	0.	0.	3.87-10
0.	0.	0.	0.	0.	0.	0.	2.62-10
0.	0.	0.	0.	0.	0.	0.	1.80-10
0.	0.	0.	0.	0.	0.	0.	4.52-11
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.	
							9.52-10

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		
1.33-10	4.17-11	1.01-10	1.44-10	4.70-12	7.91-16	1.49-21	3.84-09	4.15-10
5.29-10	4.78-10	1.25-10	5.32-11	3.74-11	1.05-14	2.33-24	1.14-09	1.41-10
1.02-09	2.29-10	1.04-10	2.77-10	6.39-12	2.84-14	6.00-20	7.48-10	1.36-10
5.39-10	2.41-10	2.75-10	1.63-10	1.87-11	3.81-15	1.36-22	4.40-10	4.29-11
1.02-09	2.97-10	2.12-10	2.51-10	2.32-12	1.23-14	6.29-23	3.92-10	5.90-11
4.44-10	1.96-10	2.15-10	2.23-10	7.33-12	5.31-16	1.44-24	3.04-10	4.77-11
4.87-10	3.63-10	2.94-10	1.96-10	1.90-11	1.01-14	1.25-24	1.53-10	1.62-11
1.56-09	4.97-10	4.92-10	4.65-10	2.09-11	6.69-14	6.71-23	1.17-10	4.10-11
7.47-11	1.04-10	1.96-10	1.18-09	1.01-11	3.03-16	2.38-27	1.33-10	6.33-11
5.35-11	3.20-10	3.39-10	2.61-10	6.03-13	8.79-14	3.06-22	3.31-11	1.38-11
1.39-09	5.99-10	5.01-10	6.36-10	2.98-11	3.94-14	1.62-20		
3.09-10	9.63-11	9.77-11	2.18-10	8.93-12	2.27-14	1.60-20	9.99-10	5.95-11

PHI 45 TO 90 DEGREES

4.35-10	1.61-10	1.91-10	1.96-10	1.96-12	2.05-15	3.89-26	5.65-10	4.47-10
7.74-10	2.17-10	1.09-10	1.96-10	1.56-12	5.26-17	5.91-21	1.10-10	3.75-11
2.09-10	1.40-10	4.48-10	2.59-10	9.05-12	6.85-17	3.35-25	1.01-10	5.79-11
2.57-10	3.88-10	1.65-10	4.21-10	5.52-12	1.30-15	5.46-25	2.78-10	2.12-10
2.86-10	2.32-10	2.38-10	6.25-11	2.24-11	4.32-17	3.24-21	3.18-11	7.61-12
3.39-10	1.17-10	2.74-09	6.85-11	5.35-12	8.37-16	4.28-20	1.16-10	5.98-11
1.56-10	9.12-11	4.93-10	1.31-10	1.79-11	4.96-15	5.88-22	1.23-10	6.65-11
2.92-10	1.22-09	4.24-10	4.11-10	3.47-11	6.92-15	8.89-21	8.06-11	2.73-11
3.64-10	4.53-11	3.56-10	1.19-10	4.83-11	1.49-15	4.78-23	3.74-11	8.20-12
7.77-10	6.03-10	1.36-09	7.45-10	1.31-12	1.00-16	1.80-26	9.13-11	3.70-11
6.47-10	6.70-10	1.14-09	4.93-10	3.30-11	4.45-15	1.16-20		
1.23-10	2.87-10	4.72-10	1.42-10	1.04-11	3.19-15	7.01-21	2.70-10	8.46-11

PHI 90 TO 135 DEGREES

1.96-10	7.78-11	1.22-10	2.87-10	1.05-12	1.20-15	1.09-23	2.30-10	1.33-10
1.09-10	1.06-10	8.81-11	6.89-11	3.30-11	9.31-17	3.05-26	4.71-10	4.41-10
2.58-10	5.21-10	1.51-10	1.69-10	1.91-11	4.02-15	5.70-23	6.09-11	2.92-11
1.97-10	3.65-10	3.55-10	6.38-11	2.80-11	6.42-16	1.40-24	4.03-11	1.16-11
4.87-11	2.77-10	6.59-11	6.47-11	1.66-11	1.73-15	1.10-21	1.99-11	6.12-12
8.97-10	1.11-10	1.09-10	9.08-11	3.67-12	6.70-15	1.14-21	4.24-11	2.78-11
1.75-10	1.64-10	1.30-10	9.49-11	1.87-11	1.27-14	2.42-23	6.74-11	5.05-11
7.39-11	1.67-10	4.92-10	9.75-10	2.80-11	6.07-14	9.13-22	3.44-11	1.19-11
9.05-11	2.59-10	7.16-10	1.17-09	1.61-10	3.46-14	3.68-23	7.09-11	2.88-11
1.39-09	6.38-11	4.19-10	4.31-10	7.88-11	1.72-15	5.43-25	7.38-11	3.20-11
5.04-10	4.95-10	5.32-10	6.42-10	6.99-11	2.92-14	6.63-22		
1.52-10	1.38-10	1.39-10	2.70-10	2.58-11	1.81-14	3.26-22	1.84-10	8.42-11

PHI 135 TO 180 DEGREES

4.55-10	4.67-10	2.41-11	1.58-10	1.45-10	9.04-18	3.44-27	1.12-10	5.99-11
4.93-10	1.47-10	2.26-10	1.39-10	9.73-12	9.23-18	1.56-28	5.71-11	1.89-11
2.10-10	1.92-10	3.96-10	5.74-11	8.40-11	2.57-17	3.65-26	4.03-11	1.15-11
4.43-10	6.42-10	2.57-10	8.82-11	3.05-11	6.76-15	4.40-19	4.78-11	1.62-11
3.94-10	8.67-10	9.12-11	3.24-11	1.68-12	6.27-17	4.58-24	3.28-11	2.73-11
6.86-10	7.42-11	4.92-10	1.76-11	3.25-12	4.30-17	7.17-22	6.22-11	3.07-11
7.74-10	8.74-11	5.12-10	2.42-10	5.14-11	2.18-14	2.55-26	5.74-11	3.26-11
1.15-10	1.56-10	7.46-11	5.97-11	3.21-11	5.24-14	4.47-24	1.52-11	3.84-12
9.05-10	1.48-10	5.65-10	3.14-11	2.87-11	1.25-17	4.62-23	5.53-11	2.83-11
1.56-11	5.59-11	2.46-10	4.41-10	1.36-13	1.44-15	2.55-23	1.23-11	5.12-12
9.42-10	5.77-10	6.31-10	2.13-10	7.39-11	2.34-14	1.44-19		
3.02-10	1.98-10	1.80-10	5.91-11	3.16-11	2.30-14	1.44-19	9.38-11	1.73-11
							2.43-09	2.25-10

AIR SCATTERING 1.25 02 ENERGY 2.00 ANGLE 9.00 01 DIST. 3.05 03
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.	0.	1.19-08	9.97-09	0.	0.
4.00 01	0.	0.	0.	0.	0.	6.69-09	0.	0.
6.00 01	0.	0.	0.	0.	0.	2.96-09	0.	0.
8.00 01	0.	0.	0.	0.	0.	6.90-11	1.38-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	4.50-11	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.	7.18-10	2.57-09	4.59-10	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.	7.58-09	6.35-09	1.11-09	1.47-09
4.00 01	0.	0.	0.	0.	3.34-10	4.93-09	1.10-09	5.74-10
6.00 01	0.	0.	0.	0.	0.	2.34-09	1.07-09	2.99-10
8.00 01	0.	0.	0.	0.	0.	1.93-10	2.08-09	4.75-10
9.00 01	0.	0.	0.	0.	0.	3.22-10	8.56-10	2.46-10
1.00 02	0.	0.	0.	0.	0.	4.94-13	1.91-10	6.40-10
1.20 02	0.	0.	0.	0.	0.	1.57-12	3.09-10	1.66-10
1.40 02	0.	0.	0.	0.	0.	0.	3.18-10	4.43-10
1.60 02	0.	0.	0.	0.	0.	0.	1.63-12	2.42-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	4.85-10
	0.	0.	0.	0.	5.15-10	1.98-09	1.59-09	8.20-10
	0.	0.	0.	0.	7.05-11	1.36-10	1.42-10	1.43-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.00-10	6.69-10
4.00 01	0.	0.	0.	0.	0.	0.	1.62-10	5.76-10
6.00 01	0.	0.	0.	0.	0.	0.	1.29-10	2.30-10
8.00 01	0.	0.	0.	0.	0.	0.	3.44-10	1.04-09
9.00 01	0.	0.	0.	0.	0.	0.	1.03-10	8.08-11
1.00 02	0.	0.	0.	0.	0.	0.	7.72-13	3.08-11
1.20 02	0.	0.	0.	0.	0.	0.	1.13-09	4.77-10
1.40 02	0.	0.	0.	0.	0.	1.64-11	1.01-11	5.47-11
1.60 02	0.	0.	0.	0.	0.	0.	5.80-15	1.36-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.98-12
	0.	0.	0.	0.	0.	4.37-12	5.77-10	7.54-10
	0.	0.	0.	0.	0.	4.37-12	4.26-10	2.36-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.02-10	3.66-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.01-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	8.80-10
8.00 01	0.	0.	0.	0.	0.	5.19-11	5.33-12	1.25-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.57-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	9.31-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.60-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.62-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	3.36-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.10-10
	0.	0.	0.	0.	0.	1.69-11	1.39-11	7.77-10
	0.	0.	0.	0.	0.	1.69-11	1.23-11	2.11-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	9.17-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	6.78-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.16-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	8.80-11
9.00 01	0.	0.	0.	0.	0.	0.	3.49-16	1.36-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.97-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.93-10
1.40 02	0.	0.	0.	0.	0.	0.	4.73-13	2.87-11
1.60 02	0.	0.	0.	0.	0.	0.	2.11-12	1.50-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	4.92-13	4.50-10
	0.	0.	0.	0.	0.	0.	3.35-13	1.37-10

104176264535 317730025005

AIR SCATTERING 1.25 02 ENERGY 2.00 ANGLE 9.00 01 DIST. 3.05 03

3.50 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.	2.88-09	
0.	0.	0.	0.	0.	0.	0.	7.36-10	
0.	0.	0.	0.	0.	0.	0.	3.25-10	
0.	0.	0.	0.	0.	0.	0.	1.04-10	
0.	0.	0.	0.	0.	0.	0.	3.15-12	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
0.	0.	0.	0.	0.	0.	0.		
							4.23-10	

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		
1.00-10	7.13-11	4.98-11	2.88-10	2.32-12	1.02-17	1.24-22	2.00-09	1.90-10
4.04-10	3.06-10	3.51-10	1.32-10	3.96-12	1.67-17	3.76-25	7.28-10	6.82-11
6.50-10	5.04-10	3.75-10	1.02-10	7.32-12	1.12-14	1.93-24	3.92-10	3.72-11
4.52-10	5.38-10	6.42-10	3.45-10	6.35-12	4.59-15	1.10-21	2.36-10	2.21-11
7.72-10	4.58-10	5.56-10	8.23-10	1.50-11	2.12-15	5.58-22	1.66-10	4.74-11
4.77-10	5.03-10	2.44-10	9.09-11	8.07-12	5.03-16	6.05-26	8.05-11	2.11-11
1.37-10	2.58-10	2.79-10	1.17-10	9.20-12	6.01-15	1.81-23	4.81-11	8.69-12
3.18-10	4.65-10	3.99-10	9.65-11	5.09-11	1.86-15	8.08-25	7.64-11	2.31-11
4.12-10	1.49-10	7.60-10	2.27-11	1.46-12	6.29-16	8.48-23	4.61-11	1.46-11
2.59-10	3.45-09	1.35-10	7.70-12	5.51-13	1.28-17	8.37-28	1.19-10	8.35-11
8.30-10	9.76-10	8.49-10	4.07-10	2.57-11	7.50-15	4.83-22		
1.30-10	2.74-10	1.81-10	1.88-10	9.62-12	3.63-15	3.71-22	5.22-10	2.87-11

PHI 45 TO 90 DEGREES

1.40-10	8.32-11	2.10-10	5.33-10	3.63-13	1.06-15	6.20-28	6.41-11	2.33-11
5.16-10	2.13-10	1.99-10	1.82-10	2.05-12	1.50-13	7.64-23	6.97-11	1.50-11
3.60-10	1.30-09	1.63-10	1.92-10	4.26-12	4.42-14	2.22-24	7.00-11	2.72-11
2.99-10	1.34-10	5.78-10	7.07-11	9.68-12	7.28-16	5.20-25	1.02-10	3.46-11
1.09-09	6.16-09	4.96-10	3.49-11	9.29-11	8.28-17	1.25-25	2.09-10	1.47-10
2.68-10	1.86-10	4.40-10	6.79-11	5.53-11	4.63-16	5.00-20	2.57-11	8.38-12
3.04-10	6.58-10	2.96-10	4.81-11	2.79-12	5.85-15	3.75-21	1.36-10	9.70-11
2.08-10	6.87-11	1.07-10	1.67-10	9.89-12	3.62-16	6.20-22	1.83-11	5.13-12
6.32-11	1.17-10	8.27-10	1.16-10	1.02-12	1.16-16	5.04-24	2.96-11	1.25-11
1.10-10	5.36-09	3.85-12	5.05-11	5.04-14	2.89-17	9.03-23	1.33-10	1.27-10
6.99-10	2.11-09	7.11-10	2.39-10	3.41-11	4.03-14	1.01-20		
1.51-10	1.15-09	2.00-10	5.90-11	2.51-11	2.80-14	9.89-21	1.71-10	4.79-11

PHI 90 TO 135 DEGREES

1.20-10	1.56-10	7.95-10	9.88-11	3.11-12	1.11-15	1.21-27	5.75-11	2.19-11
3.83-10	7.12-10	1.46-10	1.31-10	3.81-12	1.20-16	3.36-21	8.57-11	2.26-11
1.09-10	1.51-10	1.07-10	6.33-11	1.35-11	1.45-14	5.34-26	5.44-11	3.16-11
4.12-10	2.90-10	1.24-10	5.02-10	3.38-12	2.48-16	1.12-21	4.17-11	1.11-11
1.77-11	9.93-11	4.96-10	1.40-10	3.29-12	7.91-17	8.32-23	1.72-11	8.69-12
5.61-11	2.29-10	1.19-10	2.37-11	2.92-11	2.64-16	7.05-28	1.50-11	5.31-12
1.70-10	3.56-10	2.73-10	2.60-10	8.42-11	1.58-17	5.84-23	4.16-11	1.39-11
3.79-10	3.89-11	4.88-11	1.30-10	9.27-12	1.59-16	1.87-23	3.30-11	1.82-11
1.16-10	1.85-11	1.60-10	5.23-11	2.50-12	2.47-16	2.77-23	2.52-11	8.68-12
6.91-12	7.48-12	1.04-10	8.32-11	4.17-13	2.42-18	7.12-26	8.85-12	5.11-12
4.27-10	4.55-10	3.85-10	3.71-10	4.10-11	4.17-15	9.91-22		
1.11-10	1.40-10	1.49-10	1.49-10	2.70-11	2.01-15	6.39-22	7.98-11	1.30-11

PHI 135 TO 180 DEGREES

1.53-10	4.08-09	1.41-10	1.29-10	1.15-12	4.96-17	4.74-29	1.53-10	9.71-11
6.41-10	1.14-10	3.05-10	1.68-10	1.43-12	1.25-15	4.85-24	6.75-11	2.09-11
3.87-10	1.28-10	1.45-10	4.74-10	3.74-13	8.55-17	6.26-22	3.54-11	1.07-11
1.41-10	1.45-10	5.93-11	5.14-11	4.08-11	1.48-16	2.26-23	1.51-11	3.91-12
8.59-11	7.02-11	6.42-10	8.36-11	3.60-11	2.48-17	1.63-22	2.56-11	1.15-11
1.25-09	6.52-11	5.24-10	3.07-11	1.02-10	1.74-18	2.98-29	5.99-11	4.15-11
8.30-11	8.85-11	1.25-10	1.20-10	1.02-11	7.57-17	3.52-24	2.86-11	1.77-11
8.78-11	9.80-11	1.95-10	5.22-11	5.10-11	2.51-16	8.36-25	1.05-11	3.59-12
3.35-10	3.81-10	1.16-10	1.03-10	1.22-11	4.35-16	1.64-22	3.23-11	8.03-11
1.42-12	1.95-10	9.15-11	7.82-11	3.23-13	6.19-17	2.57-26	7.36-12	2.98-12
6.00-10	5.03-10	4.40-10	2.75-10	5.67-11	4.67-16	2.33-22		
2.27-10	2.43-10	1.28-10	1.22-10	2.87-11	1.96-16	1.76-22	6.83-11	1.35-11
							1.32-09	1.05-10

AIR SCATTERING 1.26 02 ENERGY 2.00 ANGLE 1.35 02 DIST. 3.05 03
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.	0.	0.	2.00-08	6.33-09	0.
4.00 01	0.	0.	0.	0.	0.	0.	4.85-09	0.
6.00 01	0.	0.	0.	0.	0.	0.	4.16-12	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.	1.20-09	1.22-09	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.	1.33-08	6.85-09	1.19-09
4.00 01	0.	0.	0.	0.	0.	5.33-10	4.87-09	5.33-10
6.00 01	0.	0.	0.	0.	0.	4.63-11	4.14-10	3.31-10
8.00 01	0.	0.	0.	0.	0.	2.57-14	4.62-10	3.09-10
9.00 01	0.	0.	0.	0.	0.	0.	5.46-10	5.34-11
1.00 02	0.	0.	0.	0.	0.	0.	1.25-11	2.00-10
1.20 02	0.	0.	0.	0.	0.	0.	1.77-12	9.47-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.42-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.70-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	9.17-11
	0.	0.	0.	0.	0.	9.08-10	1.62-09	4.45-10
	0.	0.	0.	0.	0.	8.58-11	1.51-10	9.21-11

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	5.36-09	4.75-09
4.00 01	0.	0.	0.	0.	0.	0.	4.36-10	2.67-10
6.00 01	0.	0.	0.	0.	0.	6.90-13	2.34-10	1.77-10
8.00 01	0.	0.	0.	0.	0.	0.	2.13-11	5.74-10
9.00 01	0.	0.	0.	0.	0.	2.59-11	5.25-12	2.58-10
1.00 02	0.	0.	0.	0.	0.	0.	2.66-11	2.31-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	8.68-11
1.40 02	0.	0.	0.	0.	0.	0.	1.36-12	6.42-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	3.70-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.04-11
	0.	0.	0.	0.	0.	4.68-12	4.74-10	7.05-10
	0.	0.	0.	0.	0.	4.49-12	1.20-10	2.92-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	9.88-10	3.34-10
4.00 01	0.	0.	0.	0.	0.	0.	9.23-11	3.57-10
6.00 01	0.	0.	0.	0.	0.	0.	1.21-11	1.96-10
8.00 01	0.	0.	0.	0.	0.	0.	3.53-12	2.99-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.62-11
1.00 02	0.	0.	0.	0.	0.	0.	7.17-13	6.81-11
1.20 02	0.	0.	0.	0.	0.	5.82-13	1.00-09	7.45-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.80-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.33-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.79-10
	0.	0.	0.	0.	0.	1.90-13	4.07-10	3.96-10
	0.	0.	0.	0.	0.	1.90-13	3.27-10	1.03-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.16-11	2.47-10
4.00 01	0.	0.	0.	0.	0.	0.	7.79-12	4.33-10
6.00 01	0.	0.	0.	0.	0.	0.	2.33-13	1.80-10
8.00 01	0.	0.	0.	0.	0.	0.	7.80-12	1.08-10
9.00 01	0.	0.	0.	0.	0.	0.	1.87-11	4.14-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.16-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.07-11
1.40 02	0.	0.	0.	0.	0.	0.	9.02-12	3.43-11
1.60 02	0.	0.	0.	0.	0.	0.	7.45-13	4.51-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	1.10-11	2.85-10
	0.	0.	0.	0.	0.	0.	4.94-12	7.97-11

261107236201 127547443155

AIR SCATTERING 1.26 02 ENERGY 2.00 ANGLE 1.35 02 DIST. 3.05 03
3.50 01 1.75 03 0. 0. 5.27 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.	2.64-09
0.	0.	0.	0.	0.	0.	0.	3.39-10
0.	0.	0.	0.	0.	0.	0.	2.91-13
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	2.18-10

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		
1.85-10	5.83-10	1.37-10	1.93-10	1.06-11	5.72-18	3.10-23	2.03-09	1.48-10
8.01-10	3.53-10	3.11-10	1.79-10	3.34-11	1.80-15	1.11-23	4.72-10	3.78-11
3.16-10	5.60-10	2.96-10	1.17-10	7.78-11	9.47-15	5.52-23	8.33-11	1.21-11
1.22-10	3.42-10	1.78-10	1.17-10	1.26-11	3.03-16	4.44-23	6.53-11	2.37-11
1.97-10	6.37-10	1.63-10	2.43-11	3.45-12	4.43-16	2.23-24	6.68-11	3.84-11
5.85-11	1.21-10	1.17-10	7.54-11	2.06-12	8.73-17	1.29-26	1.90-11	6.25-12
9.82-11	2.85-10	1.08-10	3.26-11	2.00-12	1.17-16	1.03-21	1.77-11	4.30-12
1.26-10	5.92-11	7.61-11	3.67-11	9.30-13	1.40-16	7.02-23	9.05-12	2.55-12
2.93-11	3.72-10	1.83-10	7.65-11	1.65-11	1.75-15	5.47-23	1.59-11	9.22-12
6.11-12	4.86-12	1.71-11	1.07-10	7.34-15	2.39-21	1.43-27	6.33-12	4.38-12
3.89-10	6.62-10	3.36-10	1.68-10	3.60-11	3.40-15	3.96-22		
4.76-11	1.35-10	6.27-11	3.64-11	2.45-11	1.63-15	3.40-22	2.74-10	1.75-11

PHI 45 TO 90 DEGREES

9.53-11	8.34-11	9.07-10	9.78-11	4.19-12	5.40-13	1.49-21	6.37-10	3.26-10
1.07-09	5.16-10	3.44-10	3.43-10	1.19-10	3.07-14	2.47-20	1.06-10	2.36-11
9.87-10	4.91-10	1.81-10	6.46-11	8.94-12	1.00-14	2.88-22	7.70-11	1.87-11
1.64-10	2.11-10	3.37-10	1.03-10	3.33-12	1.79-16	4.31-23	4.89-11	1.78-11
6.85-11	1.40-10	1.10-10	7.48-11	2.20-12	9.24-16	3.40-23	2.49-11	8.16-12
5.68-11	2.40-10	2.28-11	1.17-10	7.71-12	9.01-16	5.61-26	2.29-11	8.86-12
1.28-10	3.78-11	6.36-10	3.96-11	1.07-11	1.31-16	9.94-25	2.31-11	9.05-12
7.51-11	2.94-10	2.19-10	8.66-11	8.45-12	3.87-17	1.13-25	1.84-11	4.54-12
3.94-11	7.33-11	8.75-11	1.22-11	4.65-11	1.90-17	3.43-22	7.36-12	2.54-12
1.46-10	7.14-13	7.11-12	1.76-09	6.57-13	1.87-17	3.05-28	2.40-11	1.80-11
6.07-10	4.63-10	5.77-10	2.94-10	3.99-11	4.10-14	4.54-21		
1.50-10	1.07-10	1.45-10	1.20-10	2.05-11	3.29-14	4.28-21	1.17-10	2.30-11

PHI 90 TO 135 DEGREES

4.13-10	5.81-10	3.11-10	2.73-11	1.21-11	1.52-14	4.20-23	1.21-10	2.69-11
3.79-10	4.58-10	1.32-10	7.84-11	9.64-12	1.85-14	4.32-23	5.25-11	9.46-12
2.19-10	1.02-10	3.75-10	2.75-11	2.19-11	1.95-15	4.56-24	2.90-11	7.14-12
1.08-10	9.82-11	4.13-10	5.68-11	7.14-12	1.36-16	2.25-22	3.04-11	9.38-12
3.69-11	3.51-10	3.39-10	1.30-11	7.43-12	1.03-15	1.66-20	1.91-11	7.10-12
4.01-10	3.86-11	5.59-10	1.40-10	1.22-11	6.02-17	6.81-25	3.15-11	1.19-11
1.25-10	2.13-10	9.95-10	6.09-11	9.76-12	9.65-16	1.07-24	1.04-10	7.24-11
7.82-11	5.26-11	5.46-11	1.66-10	3.27-11	1.55-16	5.14-29	2.62-11	1.63-11
5.03-11	3.06-11	8.48-11	7.92-11	7.53-12	6.36-16	1.24-25	5.77-12	2.30-12
1.01-10	8.87-12	6.15-11	1.10-11	5.63-13	9.91-16	7.15-25	1.91-11	1.26-11
3.36-10	3.31-10	7.90-10	1.46-10	2.72-11	5.40-15	2.96-21		
7.09-11	8.48-11	3.70-10	4.62-11	1.06-11	3.40-15	2.85-21	8.59-11	2.70-11

PHI 135 TO 180 DEGREES

1.36-09	1.22-10	1.07-10	6.69-11	1.50-11	9.72-15	7.65-28	6.86-11	3.20-11
8.02-10	4.35-10	3.73-10	1.89-10	1.28-11	5.08-17	2.32-22	7.10-11	2.03-11
1.03-10	3.23-10	3.29-11	2.34-10	5.40-12	4.40-15	1.49-24	2.35-11	7.93-12
2.71-10	9.07-11	5.69-11	4.13-11	8.11-12	2.22-15	1.87-25	1.95-11	7.99-12
3.92-11	3.89-10	3.40-11	1.19-11	9.48-12	2.03-14	1.10-22	3.37-11	2.06-11
6.63-11	9.61-11	8.37-11	4.25-12	4.09-13	1.28-15	3.41-31	1.22-11	5.57-12
6.04-11	4.76-11	3.17-11	3.58-11	3.68-12	3.06-15	2.59-24	5.88-12	1.39-12
5.06-11	7.39-11	3.22-11	2.79-11	1.15-11	9.59-17	1.48-21	6.98-12	2.24-12
9.55-11	2.50-11	1.23-10	7.60-11	7.68-13	4.08-18	8.80-25	7.55-12	2.78-12
1.98-11	2.11-12	3.64-11	5.97-10	7.04-13	1.90-19	7.08-34	7.47-12	5.30-12
4.06-10	3.22-10	1.61-10	1.84-10	1.34-11	7.26-15	4.54-22		
1.04-10	1.33-10	5.71-11	7.09-11	4.10-12	3.94-15	3.95-22	4.26-11	7.75-12
							8.16-10	6.98-11

AIR SCATTERING 1.27 02 ENERGY 2.00 ANGLE 1.80 02 DIST. 3.05 03
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.	4.22-08	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.	2.54-09	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.	7.90-12	3.02-08	3.57-10
4.00 01	0.	0.	0.	0.	0.	6.56-17	6.28-10	1.60-10
6.00 01	0.	0.	0.	0.	0.	0.	4.01-10	2.50-10
8.00 01	0.	0.	0.	0.	0.	0.	1.86-12	2.49-10
9.00 01	0.	0.	0.	0.	0.	0.	1.06-12	3.28-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.03-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	6.49-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.10-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.85-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.71-10
	0.	0.	0.	0.	0.	4.76-13	2.04-09	5.24-10
	0.	0.	0.	0.	0.	4.14-13	1.39-10	2.13-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	5.39-12	2.19-09	4.77-10
4.00 01	0.	0.	0.	0.	0.	0.	6.26-10	3.13-10
6.00 01	0.	0.	0.	0.	0.	1.88-14	2.28-10	3.36-10
8.00 01	0.	0.	0.	0.	0.	0.	1.11-11	2.88-10
9.00 01	0.	0.	0.	0.	0.	0.	1.54-13	3.02-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.33-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.30-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	5.67-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	8.28-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.01-10
	0.	0.	0.	0.	0.	3.30-13	3.05-10	4.10-10
	0.	0.	0.	0.	0.	2.10-13	6.47-11	9.88-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	4.90-12	3.64-09	4.37-10
4.00 01	0.	0.	0.	0.	0.	7.15-17	4.33-10	1.30-10
6.00 01	0.	0.	0.	0.	0.	0.	5.61-11	1.19-10
8.00 01	0.	0.	0.	0.	0.	0.	1.64-11	8.43-10
9.00 01	0.	0.	0.	0.	0.	6.04-12	2.00-15	9.52-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.54-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	8.14-10
1.40 02	0.	0.	0.	0.	0.	0.	2.43-11	3.73-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.72-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.49-10
	0.	0.	0.	0.	0.	1.34-12	3.21-10	7.93-10
	0.	0.	0.	0.	0.	1.07-12	8.09-11	3.73-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.53-11	4.37-09	1.62-09
4.00 01	0.	0.	0.	0.	0.	0.	3.64-10	2.16-10
6.00 01	0.	0.	0.	0.	0.	1.96-12	2.39-10	2.57-10
8.00 01	0.	0.	0.	0.	0.	0.	7.00-13	9.75-11
9.00 01	0.	0.	0.	0.	0.	0.	8.11-15	3.14-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.35-11
1.20 02	0.	0.	0.	0.	0.	0.	7.56-13	4.13-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.30-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	3.62-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	8.97-12
	0.	0.	0.	0.	0.	1.44-12	3.91-10	3.71-10
	0.	0.	0.	0.	0.	9.62-13	9.33-11	1.05-10

150152660241 256514445665

AIR SCATTERING 1.27 02 ENERGY 2.00 ANGLE 1.80 02 DIST. 3.05 03

4.00 01	1.75 03	0.	0.	5.26 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.	2.95-09
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.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.78-10

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		
9.72-10	2.91-10	3.26-10	3.13-11	1.89-10	1.77-15	9.90-25	2.18-09	1.20-10
4.89-10	1.84-10	2.70-10	2.17-10	7.18-11	2.86-14	7.93-20	8.23-11	1.40-11
5.00-10	1.50-10	4.42-10	4.59-10	1.16-11	3.10-16	1.13-19	7.58-11	2.43-11
1.70-10	3.53-10	2.94-10	3.46-11	2.60-12	2.21-15	1.61-22	3.34-11	9.46-12
1.02-10	1.40-09	2.20-10	6.06-11	3.72-12	2.24-15	2.88-25	5.89-11	3.34-11
7.83-10	3.92-10	3.49-10	1.12-11	1.62-12	8.31-18	1.54-26	4.98-11	2.10-11
6.85-10	1.77-10	7.64-11	1.43-10	1.83-12	1.63-16	4.77-20	6.44-11	5.13-11
1.31-10	6.49-10	6.46-11	1.32-11	3.08-12	2.41-17	2.40-21	2.72-11	1.18-11
1.42-11	2.46-10	3.09-11	2.67-11	6.07-12	2.04-17	4.08-26	7.46-12	3.49-12
9.87-11	4.00-14	1.90-12	2.83-11	6.16-12	4.34-20	4.05-34	1.25-11	9.06-12
7.52-10	7.90-10	4.26-10	2.42-10	3.16-11	6.32-15	6.01-20		
2.20-10	2.88-10	1.14-10	1.23-10	1.92-11	4.72-15	4.64-20	2.26-10	2.81-11

PHI 45 TO 90 DEGREES

5.14-10	2.77-10	1.64-10	4.35-11	2.02-13	1.28-13	4.53-25	2.06-10	5.00-11
4.33-10	2.23-09	4.52-10	3.25-10	9.57-12	1.18-14	1.13-23	1.41-10	4.63-11
3.06-10	1.63-10	7.12-10	2.87-10	3.47-12	9.22-16	4.19-23	6.49-11	1.62-11
3.10-10	2.85-10	4.28-10	4.45-11	9.47-12	1.98-15	6.58-23	4.23-11	1.62-11
1.42-10	1.55-10	4.84-11	3.91-10	1.73-11	5.70-14	2.48-22	4.20-11	1.83-11
4.27-11	3.96-10	4.45-10	1.05-11	6.42-12	4.57-15	5.89-28	2.68-11	1.06-11
8.63-11	3.27-11	1.32-10	1.46-10	4.30-12	1.32-16	2.02-23	9.17-12	2.36-12
7.73-11	5.22-10	4.19-11	3.93-11	1.66-11	1.05-17	1.04-22	1.70-11	8.80-12
8.65-10	2.61-10	2.64-11	5.72-12	1.64-12	2.85-17	3.91-25	3.84-11	2.72-11
1.48-10	1.05-10	1.10-09	7.79-11	5.80-13	2.10-13	4.24-26	4.07-11	2.29-11
5.29-10	8.37-10	6.28-10	2.83-10	1.60-11	3.41-14	1.12-22		
1.59-10	3.11-10	2.33-10	9.00-11	5.15-12	1.66-14	5.63-23	9.65-11	1.40-11

PHI 90 TO 135 DEGREES

4.14-10	3.73-10	7.63-10	3.48-10	9.77-13	1.23-15	2.37-22	3.20-10	9.58-11
3.37-10	3.96-10	2.23-10	1.67-10	1.50-11	3.62-16	7.01-23	6.48-11	1.10-11
2.24-10	1.20-10	4.62-10	9.91-11	1.27-11	5.01-16	8.22-25	3.12-11	8.04-12
5.72-11	1.04-10	4.82-10	1.07-10	7.08-12	3.16-15	8.42-25	5.86-11	3.80-11
5.09-11	1.54-09	2.22-10	4.54-11	6.04-13	7.34-16	1.09-22	4.95-11	2.53-11
1.29-10	1.61-10	1.80-10	2.59-10	3.05-12	2.77-17	1.02-18	2.74-11	1.11-11
4.54-11	1.51-10	3.62-10	8.05-11	1.89-12	1.13-15	1.13-18	5.40-11	4.07-11
8.47-11	1.38-10	3.45-10	6.84-11	1.81-11	8.58-16	6.58-22	3.44-11	1.99-11
3.24-10	8.87-12	2.67-10	5.04-11	6.71-13	4.67-14	1.33-24	1.86-11	8.59-12
5.35-12	1.37-11	3.04-12	1.83-11	9.56-13	6.36-14	7.55-35	8.25-12	7.89-12
2.89-10	5.42-10	6.91-10	2.18-10	1.46-11	1.40-14	5.46-19		
5.54-11	1.96-10	2.52-10	7.23-11	5.15-12	9.02-15	5.45-19	1.02-10	2.13-11

PHI 135 TO 180 DEGREES

7.86-10	1.18-10	5.08-11	4.21-10	1.85-11	1.23-17	4.27-19	4.25-10	1.10-10
3.09-10	3.01-10	1.22-10	3.81-10	8.18-11	2.87-15	6.94-21	6.17-11	1.05-11
1.41-10	2.42-10	5.72-10	6.09-11	4.58-12	2.68-15	5.22-21	5.28-11	1.27-11
1.20-10	2.54-10	1.29-10	3.48-11	1.67-11	3.35-15	1.77-22	1.84-11	4.04-12
2.99-10	1.85-10	2.26-10	2.84-10	7.88-11	6.35-16	3.13-25	3.90-11	1.40-11
1.73-11	3.13-10	2.25-10	1.44-09	2.39-11	2.25-16	1.70-26	2.85-11	1.36-11
7.55-11	1.55-10	5.48-11	6.09-11	7.17-12	4.47-16	4.60-23	1.03-11	3.58-12
4.62-11	5.80-11	6.87-11	1.58-11	4.67-11	2.19-16	5.19-27	5.12-12	2.17-12
2.02-11	6.78-11	3.44-11	3.71-11	4.04-12	2.20-17	2.05-28	2.15-11	1.87-11
4.18-10	1.17-11	1.66-11	2.85-10	4.99-11	2.80-13	2.99-32	1.95-11	1.20-11
2.98-10	3.72-10	3.40-10	4.67-10	5.83-11	1.96-14	2.84-20		
4.95-11	7.21-11	1.12-10	2.16-10	2.43-11	1.62-14	2.79-20	7.78-11	1.05-11
							7.89-10	7.03-11

AIR SCATTERING 1.28 02 ENERGY 1.00 ANGLE 1.00 DIST. 3.05 03
1.25-03 1.07-02 3.20 01 1.97-06

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	8.77-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	1.41-06	7.29-07	0.	0.	0.	0.	0.	0.
6.00 01	0.	5.01-07	3.14-07	0.	0.	0.	0.	0.
8.00 01	0.	0.	4.82-07	3.29-07	0.	0.	0.	0.
9.00 01	0.	0.	0.	5.69-07	0.	0.	0.	0.
1.00 02	0.	0.	0.	5.15-07	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	5.02-07	0.	0.	0.
1.40 02	0.	0.	0.	0.	7.64-07	0.	0.	0.
1.60 02	0.	0.	0.	0.	8.64-07	3.33-07	0.	0.
1.80 02	0.	0.	0.	0.	0.	4.43-06	0.	0.
	7.74-07	2.60-07	2.41-07	2.96-07	5.17-07	3.25-07	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	5.59-06	1.06-08	0.	1.02-09	0.	2.69-10	1.48-09	2.04-08
4.00 01	8.96-07	4.64-07	0.	3.37-10	4.05-10	0.	1.30-09	1.66-09
6.00 01	0.	3.19-07	2.00-07	0.	5.41-10	4.85-10	1.51-09	2.93-09
8.00 01	0.	0.	3.07-07	2.09-07	2.58-10	1.83-10	1.93-09	7.56-10
9.00 01	0.	0.	0.	3.62-07	0.	2.78-10	6.64-10	9.09-10
1.00 02	0.	0.	0.	3.28-07	0.	4.02-10	4.42-09	2.43-10
1.20 02	0.	0.	0.	0.	3.20-07	6.22-10	4.59-09	9.58-10
1.40 02	0.	0.	0.	0.	4.86-07	1.59-09	1.93-09	1.11-09
1.60 02	0.	0.	0.	0.	5.50-07	2.26-07	5.57-10	1.02-09
1.80 02	0.	0.	0.	2.13-10	4.95-11	2.84-06	8.15-10	9.19-10
	4.93-07	1.66-07	1.53-07	1.88-07	3.29-07	2.11-07	4.39-09	3.58-09
	7.42-08	8.27-08	8.85-08	1.09-07	1.06-07	3.29-08	1.35-09	8.72-10

PHI 45 TO 90 DEGREES

2.00 01	0.	1.58-09	0.	1.09-09	2.02-09	7.52-10	1.38-09	7.71-09
4.00 01	0.	0.	0.	0.	3.32-10	1.12-10	6.10-10	5.15-09
6.00 01	0.	0.	0.	0.	0.	8.26-10	1.29-09	1.11-09
8.00 01	0.	0.	0.	0.	0.	1.44-10	2.13-09	8.31-10
9.00 01	0.	0.	0.	0.	0.	1.40-10	5.95-11	1.70-09
1.00 02	0.	0.	0.	0.	0.	9.70-10	2.16-09	9.96-10
1.20 02	0.	0.	0.	0.	4.98-10	4.39-09	1.62-09	7.38-10
1.40 02	0.	0.	0.	0.	0.	1.05-08	3.54-09	9.61-10
1.60 02	0.	0.	0.	0.	1.72-11	1.19-08	1.13-09	1.32-09
1.80 02	0.	0.	0.	0.	2.29-10	1.53-08	5.75-10	9.49-10
	0.	9.55-11	0.	6.56-11	3.59-10	7.74-09	3.31-09	3.18-09
	0.	9.55-11	0.	6.56-11	1.92-10	3.09-09	7.84-10	9.35-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	1.37-09	0.	0.	1.05-08
4.00 01	0.	0.	7.66-10	1.42-09	0.	1.84-10	3.19-09	7.71-10
6.00 01	0.	0.	8.78-09	0.	0.	1.03-11	1.79-09	2.96-09
8.00 01	0.	0.	0.	0.	1.78-10	2.03-10	1.81-09	1.47-09
9.00 01	0.	0.	0.	0.	0.	5.24-11	1.52-09	1.00-09
1.00 02	0.	0.	0.	0.	0.	5.35-10	1.74-09	3.86-10
1.20 02	0.	0.	0.	0.	0.	4.14-10	3.24-09	7.26-10
1.40 02	0.	0.	0.	4.21-10	5.42-12	1.38-09	2.02-09	3.04-09
1.60 02	0.	0.	0.	3.51-12	1.84-10	8.73-09	6.26-10	3.31-09
1.80 02	0.	0.	0.	4.57-11	2.31-11	8.91-09	4.22-10	1.11-08
	0.	0.	2.47-09	3.62-10	1.75-10	2.76-09	3.91-09	4.57-09
	0.	0.	2.34-09	2.71-10	1.02-10	1.07-09	8.01-10	1.09-09

PHI 135 TO 180 DEGREES

2.00 01	0.	6.19-08	0.	0.	7.12-10	0.	2.07-09	3.49-09
4.00 01	0.	3.37-08	9.01-10	4.60-10	1.94-09	0.	8.72-09	1.13-09
6.00 01	0.	0.	0.	0.	0.	4.88-10	1.19-09	8.18-10
8.00 01	0.	0.	0.	2.60-10	0.	1.07-09	1.22-09	5.67-10
9.00 01	0.	0.	0.	0.	4.30-09	1.83-09	6.17-10	1.76-09
1.00 02	0.	0.	0.	0.	0.	7.85-11	3.63-09	3.19-09
1.20 02	0.	0.	0.	0.	1.40-12	9.66-10	3.73-09	1.03-09
1.40 02	0.	0.	0.	0.	1.28-10	1.02-09	1.65-09	1.19-09
1.60 02	0.	0.	5.88-11	1.94-10	1.69-10	2.95-09	5.93-10	2.63-09
1.80 02	0.	0.	2.87-10	3.79-13	8.44-11	7.88-09	2.57-10	5.22-09
	0.	9.58-09	1.84-10	1.98-10	1.20-09	2.39-09	4.86-09	3.09-09
	0.	6.93-09	1.58-10	1.19-10	8.08-10	5.62-10	1.31-09	6.00-10

372707403571 2575102211 01

AIR SCATTERING 1.28 02 ENERGY 1.00 ANGLE 1.00 DIST. 3.05 03

6.70 01 1.72 03 0. 0. 5.64 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.	2.28-06
0.	0.	0.	0.	0.	0.	0.	5.05-07
0.	0.	0.	0.	0.	0.	0.	1.42-07
0.	0.	0.	0.	0.	0.	0.	1.05-07
0.	0.	0.	0.	0.	0.	0.	5.69-08
0.	0.	0.	0.	0.	0.	0.	5.15-08
0.	0.	0.	0.	0.	0.	0.	4.52-08
0.	0.	0.	0.	0.	0.	0.	6.87-08
0.	0.	0.	0.	0.	0.	0.	9.44-08
0.	0.	0.	0.	0.	0.	0.	2.21-07
0.	0.	0.	0.	0.	0.	0.	3.79-07

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		
5.78-10	2.76-11	1.74-10	8.41-11	5.25-13	2.02-18	4.98-29	1.46-06	1.95-07
1.12-09	3.04-10	1.42-09	4.36-10	1.94-11	9.28-17	8.45-24	3.21-07	1.08-07
7.38-10	1.43-09	3.98-10	4.66-11	7.57-11	1.02-15	3.98-24	9.09-08	5.23-08
6.91-10	1.43-10	2.12-10	1.12-10	3.31-13	5.99-15	1.93-23	6.71-08	3.87-08
3.49-10	1.12-09	6.83-10	5.75-11	6.92-12	2.56-16	2.72-22	3.63-08	3.62-08
3.74-10	7.61-10	6.83-10	7.52-11	3.42-12	3.50-17	3.12-19	3.30-08	3.28-08
5.83-10	3.98-10	6.54-10	4.72-11	6.32-12	1.54-14	2.06-24	2.91-08	2.04-08
2.51-09	7.51-10	6.05-10	3.32-10	2.93-11	2.02-16	1.24-22	4.40-08	2.23-08
1.84-09	1.02-09	5.29-10	2.27-10	1.11-12	4.63-15	4.78-25	6.09-08	2.04-08
2.49-09	3.18-10	1.37-10	4.18-10	4.20-12	8.03-17	1.12-31	1.42-07	2.08-08
2.10-09	1.33-09	1.14-09	3.21-10	3.58-11	8.17-15	5.42-20		
4.55-10	3.51-10	3.27-10	1.23-10	2.41-11	5.39-15	5.41-20	2.42-07	3.14-08

PHI 45 TO 90 DEGREES

2.19-10	2.91-10	5.26-11	3.04-11	2.08-13	4.29-18	4.26-27	9.57-10	4.19-10
2.93-10	4.05-10	1.31-09	4.88-11	1.44-12	6.69-17	4.62-26	2.64-10	1.49-10
4.59-10	4.23-10	9.20-10	3.73-10	8.79-12	6.05-16	1.15-27	1.63-10	4.64-11
8.64-10	7.93-10	3.08-10	2.31-11	3.56-12	8.13-15	2.23-22	1.58-10	6.53-11
7.49-10	9.19-10	4.61-10	7.69-11	9.43-12	7.85-15	2.99-22	1.06-10	4.27-11
3.27-10	3.69-09	3.22-10	4.04-11	4.95-12	1.20-16	1.08-24	2.37-10	6.57-11
2.67-09	7.68-10	4.63-10	9.44-11	3.89-12	2.06-18	8.68-26	4.39-10	2.06-10
1.06-09	2.47-09	4.77-10	3.32-10	3.24-12	2.89-15	1.06-22	7.73-10	4.72-10
1.01-09	3.64-10	1.46-10	7.81-11	7.35-13	4.41-18	3.67-23	7.20-10	3.81-10
6.54-10	7.80-10	3.46-10	1.43-11	1.41-12	8.49-19	1.47-31	8.71-10	2.87-10
2.02-09	2.28-09	1.04-09	2.71-10	8.60-12	4.98-15	1.59-22		
7.29-10	7.08-10	2.83-10	1.22-10	2.37-12	3.01-15	9.39-23	7.84-10	1.66-10

PHI 90 TO 135 DEGREES

1.31-09	1.09-10	9.20-10	2.54-10	3.14-15	2.55-20	1.44-23	5.29-10	2.41-10
5.93-10	1.98-10	2.26-10	3.83-11	1.18-11	1.21-15	1.21-27	4.36-10	2.00-10
1.77-10	1.64-09	2.96-10	3.03-11	3.13-12	6.29-16	3.98-23	1.52-09	1.39-09
6.66-10	3.72-10	3.76-10	8.19-11	2.37-11	2.29-16	9.52-25	1.76-10	5.25-11
7.93-10	4.24-10	1.34-10	1.44-10	1.94-11	2.85-16	1.07-22	1.27-10	3.56-11
5.01-10	2.01-10	1.80-10	1.58-10	9.81-12	1.54-17	5.81-25	1.28-10	4.46-11
6.21-10	4.15-10	1.36-10	1.40-10	9.10-13	4.39-16	5.77-27	1.99-10	5.96-11
1.13-09	2.02-09	6.18-09	3.28-10	2.12-12	4.08-17	2.42-22	4.31-10	1.08-10
7.25-10	3.37-09	1.84-10	1.71-10	4.43-13	2.89-18	6.90-26	6.63-10	3.11-10
1.16-08	3.86-10	1.32-10	2.56-10	2.11-13	7.16-17	2.29-28	1.14-09	5.42-10
1.96-09	1.99-09	2.08-09	2.87-10	1.67-11	6.63-16	9.48-23		
5.81-10	6.89-10	1.38-09	7.55-11	6.88-12	2.91-16	6.49-23	9.79-10	3.80-10

PHI 135 TO 180 DEGREES

8.48-10	2.79-12	7.87-10	1.57-10	2.84-13	4.35-18	2.09-36	1.20-08	1.17-08
1.14-09	5.72-10	8.77-10	7.44-11	9.12-13	9.78-16	1.68-30	7.19-09	6.40-09
5.23-10	3.51-10	2.11-10	2.10-10	1.58-12	1.90-16	9.79-24	1.23-10	3.07-11
9.39-10	5.92-10	5.86-10	5.91-11	8.34-13	1.48-13	8.72-24	1.88-10	6.97-11
1.30-09	6.06-10	2.98-10	5.96-11	3.91-11	1.79-16	2.72-24	6.09-10	3.96-10
5.01-10	2.74-10	2.51-10	6.24-11	1.88-11	1.33-17	7.68-24	2.78-10	1.53-10
6.25-10	3.07-10	6.26-10	7.58-11	1.79-11	1.96-14	1.74-23	2.61-10	8.26-11
1.87-09	2.91-10	4.25-10	2.83-11	2.09-12	7.42-14	1.79-24	2.25-10	6.07-11
4.32-10	4.35-10	1.71-10	8.06-11	1.50-13	3.90-16	4.11-26	3.24-10	6.43-11
3.04-09	3.84-10	1.13-10	7.69-11	2.05-14	2.20-17	6.85-33	7.16-10	1.98-10
1.97-09	8.15-10	8.96-10	1.70-10	1.73-11	7.48-14	1.34-23		
4.39-10	1.44-10	3.34-10	4.76-11	1.21-11	5.40-14	6.67-24	2.47-09	1.34-09
							3.87-07	4.94-08

AIR SCATTERING 1.29 02 ENERGY 1.00 ANGLE 1.50 01 DIST. 3.05 03
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	4.29-07	4.08-09	0.	0.	0.	0.	0.	0.
4.00 01	0.	1.05-07	1.99-09	0.	0.	0.	0.	0.
6.00 01	0.	0.	4.92-08	0.	0.	0.	0.	0.
8.00 01	0.	0.	1.85-09	3.82-08	0.	0.	0.	0.
9.00 01	0.	0.	0.	1.89-08	1.52-08	0.	0.	0.
1.00 02	0.	0.	0.	0.	3.29-08	0.	0.	0.
1.20 02	0.	0.	0.	0.	3.29-08	0.	0.	0.
1.40 02	0.	0.	0.	0.	3.44-08	0.	0.	0.
1.60 02	0.	0.	0.	0.	5.05-09	5.04-08	0.	0.
1.80 02	0.	0.	0.	0.	0.	3.05-09	0.	0.
	2.59-08	1.84-08	1.40-08	1.58-08	2.91-08	8.93-09	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	2.98-07	2.60-09	3.63-09	0.	0.	1.33-09	2.50-09	6.79-09
4.00 01	0.	6.66-08	4.52-09	4.16-10	2.41-09	5.21-10	4.64-09	2.81-09
6.00 01	0.	0.	3.13-08	0.	8.91-10	2.14-10	4.77-09	6.52-09
8.00 01	0.	0.	1.18-09	2.43-08	2.14-09	2.91-09	5.94-09	9.77-10
9.00 01	0.	0.	0.	1.20-08	9.69-09	1.64-10	2.12-09	2.45-10
1.00 02	0.	0.	0.	0.	2.09-08	2.24-08	2.71-09	1.13-09
1.20 02	0.	0.	0.	0.	2.20-08	2.95-09	1.30-09	4.11-10
1.40 02	0.	0.	0.	0.	2.33-08	3.86-09	6.25-10	6.18-10
1.60 02	0.	0.	0.	0.	4.33-09	3.95-08	7.24-10	1.13-09
1.80 02	0.	0.	6.95-11	2.18-12	1.18-10	8.36-09	4.61-10	1.01-09
	1.80-08	1.17-08	9.73-09	1.01-08	2.08-08	1.44-08	5.75-09	3.74-09
	1.88-09	1.38-09	1.47-09	1.59-09	1.87-09	3.96-09	1.64-09	1.66-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	1.29-09	5.48-10	2.26-10	4.82-10	8.45-10
4.00 01	0.	0.	3.18-09	0.	1.99-09	2.75-10	1.19-09	2.14-09
6.00 01	0.	0.	0.	0.	0.	0.	1.58-09	1.89-09
8.00 01	0.	0.	0.	0.	0.	6.84-11	6.88-09	7.99-10
9.00 01	0.	0.	0.	0.	1.21-09	1.17-10	6.84-10	6.14-10
1.00 02	0.	0.	0.	0.	1.84-09	6.03-10	5.83-10	8.23-10
1.20 02	0.	0.	0.	0.	7.61-10	2.50-09	1.74-09	1.04-09
1.40 02	0.	0.	0.	0.	2.23-09	4.65-09	1.51-09	1.40-09
1.60 02	0.	0.	0.	2.17-10	8.57-13	2.29-09	1.67-09	1.17-09
1.80 02	0.	0.	0.	0.	2.93-11	3.08-09	6.70-10	1.35-09
	0.	0.	5.52-10	1.16-10	1.75-09	2.84-09	4.16-09	2.43-09
	0.	0.	5.51-10	6.67-11	9.90-10	9.97-10	1.72-09	4.67-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	2.12-09	9.97-10	2.71-10	2.70-09	2.06-09
4.00 01	0.	0.	0.	0.	3.76-10	5.63-10	1.08-09	1.62-09
6.00 01	0.	0.	0.	0.	0.	7.46-11	3.60-10	1.87-09
8.00 01	0.	0.	0.	0.	0.	3.08-10	1.10-09	1.42-09
9.00 01	0.	0.	0.	0.	0.	7.32-11	2.99-10	6.86-10
1.00 02	0.	0.	0.	0.	6.62-12	1.81-10	2.11-10	3.57-10
1.20 02	0.	0.	0.	0.	0.	5.30-10	7.66-10	5.89-10
1.40 02	0.	0.	0.	0.	8.74-12	3.97-10	7.75-10	9.08-10
1.60 02	0.	0.	0.	1.52-12	1.46-11	4.99-10	1.39-09	7.53-10
1.80 02	0.	0.	0.	0.	2.93-10	1.12-09	7.97-10	3.89-10
	0.	0.	0.	1.28-10	1.49-10	7.11-10	1.64-09	2.14-09
	0.	0.	0.	1.28-10	8.98-11	1.60-10	3.58-10	4.13-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	3.40-10	6.24-10	1.42-09
4.00 01	0.	0.	0.	0.	0.	1.18-10	1.58-09	8.34-10
6.00 01	0.	0.	0.	2.24-08	0.	1.56-09	1.88-09	5.68-10
8.00 01	0.	0.	0.	0.	0.	0.	4.10-10	8.18-10
9.00 01	0.	0.	0.	0.	0.	5.40-10	1.45-09	1.78-09
1.00 02	0.	0.	0.	0.	0.	2.11-11	6.39-09	5.77-10
1.20 02	0.	0.	0.	0.	0.	2.29-10	1.91-09	9.58-10
1.40 02	0.	0.	0.	0.	4.00-11	4.88-11	1.20-09	1.11-09
1.60 02	0.	0.	0.	6.14-12	5.95-13	3.96-09	4.53-10	6.94-10
1.80 02	0.	0.	0.	0.	3.39-10	1.34-09	5.37-10	6.95-10
	0.	0.	0.	5.96-09	3.12-11	1.41-09	3.36-09	1.83-09
	0.	0.	0.	5.96-09	2.27-11	7.17-10	9.62-10	3.95-10

211054606445 030460724651

AIR SCATTERING 1.29 02 ENERGY 1.00 ANGLE 1.50 01 DIST. 3.05 03
5.70 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.	1.12-07
0.	0.	0.	0.	0.	0.	0.	2.02-08
0.	0.	0.	0.	0.	0.	0.	7.38-09
0.	0.	0.	0.	0.	0.	0.	4.10-09
0.	0.	0.	0.	0.	0.	0.	3.26-09
0.	0.	0.	0.	0.	0.	0.	2.96-09
0.	0.	0.	0.	0.	0.	0.	2.96-09
0.	0.	0.	0.	0.	0.	0.	3.09-09
0.	0.	0.	0.	0.	0.	0.	2.97-09
0.	0.	0.	0.	0.	0.	0.	1.53-10
0.	0.	0.	0.	0.	0.	0.	1.70-08

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		
6.20-10	3.71-11	1.23-09	3.67-10	2.67-13	3.18-16	5.17-30	7.90-08	8.16-09
1.47-09	9.06-11	3.80-10	4.25-11	9.46-12	5.47-18	3.24-24	1.39-08	1.61-09
1.71-09	1.99-10	7.82-10	2.77-10	8.08-12	5.31-16	2.30-25	5.26-09	7.78-10
1.72-09	1.13-09	2.67-10	3.73-11	3.32-13	5.84-16	1.13-23	3.28-09	5.23-10
3.09-10	1.35-10	5.99-10	7.71-11	2.81-11	1.49-16	5.52-29	2.19-09	5.20-10
6.73-10	1.96-10	4.95-11	1.06-10	1.01-11	1.01-14	2.77-23	3.17-09	1.20-09
4.01-10	3.21-10	1.83-10	5.65-11	1.50-11	3.44-15	1.79-25	2.21-09	3.29-10
6.21-10	2.29-10	8.83-11	2.52-11	5.59-13	6.28-17	3.55-23	2.35-09	2.44-10
1.66-09	7.08-10	3.64-10	3.53-11	4.22-14	5.28-16	6.91-27	2.49-09	1.70-10
2.22-09	2.90-10	1.05-10	6.59-12	1.27-12	8.11-21	1.64-30	5.53-10	8.46-11
2.20-09	8.05-10	7.01-10	1.79-10	1.57-11	3.37-15	1.86-23		
6.33-10	1.77-10	1.87-10	8.49-11	8.37-12	1.97-15	1.11-23	1.24-08	6.50-10

PHI 45 TO 90 DEGREES

6.32-10	6.87-11	6.61-11	1.66-09	3.62-14	2.97-17	1.47-30	2.71-10	1.09-10
1.16-09	4.42-10	3.30-10	3.12-10	3.32-13	3.07-16	9.25-27	8.32-10	4.89-10
1.30-09	7.22-10	3.14-10	1.57-10	6.90-13	2.98-17	4.41-25	1.76-10	4.68-11
1.32-09	5.81-10	6.56-10	8.85-11	2.88-12	2.68-16	2.94-25	3.24-10	2.06-10
8.15-10	1.69-10	3.07-10	4.85-11	4.57-13	4.90-13	1.13-27	1.85-10	1.11-10
7.65-10	1.62-10	3.93-11	8.02-11	3.08-13	1.31-13	3.65-27	2.70-10	1.69-10
8.23-10	3.95-10	7.53-10	7.77-11	4.60-11	3.34-15	1.12-27	3.35-10	1.36-10
8.39-10	2.30-09	1.11-10	5.40-11	1.21-11	2.93-16	9.53-28	5.99-10	2.46-10
6.62-10	2.51-10	2.31-10	2.11-11	1.50-13	1.41-16	4.15-26	2.66-10	5.92-11
6.67-10	2.00-10	5.66-11	1.78-11	9.95-14	3.63-18	5.96-29	2.50-10	5.83-11
1.90-09	1.32-09	7.38-10	2.92-10	1.96-11	1.09-13	2.23-25		
4.60-10	5.71-10	2.29-10	1.43-10	1.50-11	1.08-13	1.37-25	7.22-10	1.52-10

PHI 90 TO 135 DEGREES

2.06-10	7.74-11	4.38-11	9.94-11	1.14-13	7.37-18	1.06-25	5.01-10	2.40-10
2.92-10	1.83-10	4.12-10	2.56-10	5.26-13	2.03-16	3.58-25	1.78-10	5.21-11
1.43-10	1.59-10	9.60-10	2.38-10	1.50-12	7.82-15	4.43-26	1.01-10	3.51-11
1.15-09	1.33-09	6.57-10	1.11-10	2.31-12	1.11-15	1.06-21	1.65-10	3.56-11
1.29-09	1.65-10	1.68-09	5.65-11	4.01-13	6.44-15	3.02-25	9.44-11	2.81-11
2.43-10	8.37-11	5.43-10	1.25-10	8.39-13	1.87-15	2.10-25	4.52-11	1.53-11
1.88-10	6.32-10	2.13-10	3.15-10	5.56-13	7.69-18	7.15-28	9.67-11	2.45-11
2.17-10	3.19-10	4.68-10	1.61-10	3.95-13	3.09-18	2.71-26	9.98-11	2.33-11
9.68-10	7.44-10	7.35-09	1.13-10	1.05-12	1.02-16	1.81-24	2.32-10	9.00-11
4.55-10	2.83-10	9.54-11	6.88-11	3.07-13	1.68-17	1.21-27	1.45-10	3.74-11
1.06-09	9.92-10	2.41-09	3.51-10	1.95-12	3.94-15	3.46-22		
2.69-10	2.72-10	1.08-09	1.39-10	5.57-13	2.07-15	3.45-22	2.73-10	3.29-11

PHI 135 TO 180 DEGREES

6.36-10	1.49-10	3.40-10	2.87-11	2.98-11	1.38-18	3.55-28	1.13-10	4.81-11
1.80-10	7.46-10	1.11-10	6.76-11	2.11-12	1.58-16	3.03-28	1.15-10	3.08-11
2.33-10	2.64-10	1.02-09	2.43-10	8.43-13	9.05-17	1.68-27	2.44-09	2.24-09
2.95-10	2.17-09	7.44-10	9.37-11	2.18-11	2.78-16	3.30-27	9.41-11	3.18-11
2.96-10	6.21-10	2.87-10	2.04-11	1.28-11	3.65-16	1.21-27	1.66-10	7.64-11
1.01-09	1.13-09	2.21-10	1.53-11	4.00-12	1.93-16	4.53-28	3.21-10	1.80-10
3.67-09	3.38-10	1.33-10	1.29-10	4.60-12	1.96-15	5.78-25	2.20-10	9.28-11
1.78-09	1.32-09	4.90-10	8.56-11	2.80-12	9.70-16	9.87-25	1.63-10	4.52-11
4.38-10	3.76-10	4.74-10	7.84-11	2.43-12	1.56-15	1.75-21	2.63-10	1.65-10
2.80-10	9.96-10	4.26-10	7.73-11	1.63-12	4.13-15	4.14-24	1.70-10	6.00-11
2.22-09	1.81-09	9.25-10	1.98-10	1.52-11	1.65-15	3.04-22		
1.02-09	6.07-10	2.41-10	6.33-11	7.10-12	7.57-16	3.03-22	9.62-10	5.99-10
							2.26-08	1.46-09

AIR SCATTERING 1.30 02 ENERGY 1.00 ANGLE 3.00 01 DIST. 3.05 03
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	4.19-08	1.28-07	0.	0.	0.	0.	0.	0.
4.00 01	0.	9.22-09	3.09-08	0.	0.	0.	0.	0.
6.00 01	0.	0.	6.53-09	1.68-08	0.	0.	0.	0.
8.00 01	0.	0.	0.	9.50-09	7.80-09	0.	0.	0.
9.00 01	0.	0.	0.	0.	1.51-08	0.	0.	0.
1.00 02	0.	0.	0.	0.	1.36-08	0.	0.	0.
1.20 02	0.	0.	0.	0.	1.23-08	0.	0.	0.
1.40 02	0.	0.	0.	0.	4.16-09	8.14-09	0.	0.
1.60 02	0.	0.	0.	0.	0.	1.24-09	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	2.53-09	9.33-09	7.11-09	7.58-09	1.27-08	2.38-09	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	3.15-08	8.15-08	0.	2.66-09	9.03-10	3.31-10	1.74-09	9.09-10
4.00 01	0.	7.18-09	1.97-08	0.	1.39-09	1.31-09	1.40-09	2.12-09
6.00 01	0.	0.	5.08-09	1.07-08	1.27-09	1.04-09	4.44-09	2.81-10
8.00 01	0.	0.	0.	6.77-09	6.40-09	9.95-10	2.25-09	1.32-09
9.00 01	0.	0.	0.	1.04-09	1.26-08	1.09-09	1.84-09	5.39-10
1.00 02	0.	0.	0.	4.17-10	1.08-08	2.74-09	1.12-09	3.87-10
1.20 02	0.	0.	0.	0.	8.66-09	2.63-09	8.09-10	1.04-09
1.40 02	0.	0.	0.	0.	4.22-09	9.52-09	1.05-09	1.49-09
1.60 02	0.	0.	0.	2.86-12	6.67-11	3.79-09	4.76-10	1.77-09
1.80 02	0.	0.	0.	0.	4.98-10	3.99-09	1.03-10	2.38-10
	1.90-09	6.16-09	4.77-09	5.47-09	1.08-08	5.80-09	3.41-09	2.15-09
	3.75-10	5.41-10	5.49-10	6.67-10	8.52-10	5.28-10	5.68-10	3.05-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	7.16-10	0.	0.	0.	1.86-09	1.60-09
4.00 01	0.	0.	1.90-09	0.	2.71-10	0.	3.92-09	3.56-09
6.00 01	0.	0.	0.	0.	0.	4.15-09	1.82-09	5.63-10
8.00 01	0.	0.	0.	0.	1.60-10	8.33-10	5.14-09	4.68-10
9.00 01	0.	0.	0.	0.	0.	6.77-11	1.10-09	6.55-10
1.00 02	0.	0.	0.	0.	0.	4.82-10	1.17-09	1.62-09
1.20 02	0.	0.	0.	0.	4.82-10	4.08-10	5.62-10	7.69-10
1.40 02	0.	0.	0.	0.	8.51-13	2.32-09	2.92-10	3.11-10
1.60 02	0.	0.	0.	5.71-11	7.74-11	3.56-09	4.72-10	6.43-10
1.80 02	0.	0.	0.	0.	7.47-11	8.89-10	2.99-10	5.41-09
	0.	0.	3.74-10	9.92-12	2.75-10	2.89-09	3.71-09	2.18-09
	0.	0.	3.33-10	9.92-12	1.69-10	1.16-09	1.52-09	4.88-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.11-09	8.51-10	5.04-09
4.00 01	0.	0.	0.	0.	0.	3.41-09	3.68-10	2.84-09
6.00 01	0.	0.	0.	0.	0.	9.56-11	1.03-09	9.02-10
8.00 01	0.	0.	0.	0.	0.	2.94-10	1.65-09	2.31-09
9.00 01	0.	0.	0.	0.	0.	0.	8.35-10	1.21-10
1.00 02	0.	0.	0.	0.	0.	2.00-10	1.14-09	1.86-08
1.20 02	0.	0.	0.	0.	6.73-13	6.86-11	1.57-09	1.84-09
1.40 02	0.	0.	0.	0.	1.04-13	9.87-10	2.30-10	1.90-10
1.60 02	0.	0.	0.	0.	3.32-12	8.39-11	7.46-10	1.42-09
1.80 02	0.	0.	0.	2.47-13	2.47-10	5.14-10	9.71-11	2.98-10
	0.	0.	0.	1.49-14	1.57-11	1.15-09	1.98-09	5.96-09
	0.	0.	0.	1.49-14	1.43-11	6.19-10	4.21-10	3.12-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	1.06-09	0.	1.94-10	6.65-10
4.00 01	0.	0.	0.	0.	1.10-10	1.52-10	1.66-09	6.62-10
6.00 01	0.	0.	0.	1.08-08	0.	0.	9.43-10	1.18-09
8.00 01	0.	0.	0.	0.	0.	1.26-10	1.99-10	4.36-10
9.00 01	0.	0.	0.	0.	0.	0.	6.80-10	2.64-10
1.00 02	0.	0.	0.	0.	0.	9.71-10	7.80-10	1.83-10
1.20 02	0.	0.	0.	0.	3.71-12	1.34-11	1.19-10	5.87-10
1.40 02	0.	0.	0.	0.	0.	1.25-11	1.34-10	8.72-10
1.60 02	0.	0.	0.	0.	3.99-12	2.91-10	4.69-10	4.38-10
1.80 02	0.	0.	0.	0.	1.49-10	4.20-10	1.11-10	4.68-10
	0.	0.	0.	2.88-09	9.37-11	3.20-10	1.03-09	1.22-09
	0.	0.	0.	2.88-09	6.70-11	1.80-10	3.18-10	2.25-10

030460724651 277146002031

AIR SCATTERING 1.30 02 ENERGY 1.00 ANGLE 3.00 01 DIST. 3.05 03
5.40 01 1.73 03 0. 0. 5.63 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.	3.52-08
0.	0.	0.	0.	0.	0.	0.	6.39-09
0.	0.	0.	0.	0.	0.	0.	2.66-09
0.	0.	0.	0.	0.	0.	0.	1.65-09
0.	0.	0.	0.	0.	0.	0.	1.36-09
0.	0.	0.	0.	0.	0.	0.	1.22-09
0.	0.	0.	0.	0.	0.	0.	1.11-09
0.	0.	0.	0.	0.	0.	0.	7.81-10
0.	0.	0.	0.	0.	0.	0.	6.20-11
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							5.51-09

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		
1.04-10	4.61-10	2.78-10	4.97-12	4.09-13	3.91-18	1.94-29	2.42-08	2.12-09
3.31-10	6.24-10	3.12-10	8.66-11	2.62-11	4.02-16	5.73-22	4.66-09	5.00-10
5.72-10	4.18-10	2.16-10	2.76-11	6.90-13	1.03-16	4.32-25	2.21-09	2.83-10
1.23-09	6.36-10	2.48-10	6.39-11	1.52-12	1.61-15	3.24-23	1.48-09	1.89-10
1.55-09	1.63-09	8.11-10	4.50-11	1.15-11	2.78-16	1.41-27	1.46-09	2.68-10
1.03-09	2.61-09	1.66-10	6.24-11	1.53-12	5.77-16	2.17-25	1.28-09	2.34-10
1.49-09	1.75-09	5.12-10	5.28-11	1.48-11	9.27-13	7.03-24	1.05-09	9.94-11
7.76-10	3.96-10	2.35-10	4.20-11	2.18-13	2.37-16	5.36-26	9.77-10	8.70-11
6.60-10	1.89-10	4.41-10	1.67-11	8.00-13	4.38-14	1.43-27	3.00-10	3.47-11
4.36-10	4.69-10	1.29-10	2.50-11	5.07-13	4.44-15	1.30-31	2.76-10	1.33-10
1.90-09	1.93-09	6.93-10	9.50-11	1.26-11	3.11-13	1.12-22		
2.94-10	4.17-10	1.34-10	1.76-11	6.29-12	3.09-13	9.84-23	4.48-09	1.97-10

PHI 45 TO 90 DEGREES

7.51-10	4.74-10	8.88-10	5.82-12	3.22-13	2.12-17	3.12-27	2.73-10	1.24-10
9.33-10	5.48-10	4.42-10	3.36-11	1.68-12	5.34-17	2.95-25	6.25-10	3.02-10
9.55-10	1.61-09	9.99-10	1.46-10	6.14-13	7.80-17	1.15-29	3.61-10	2.08-10
8.25-10	4.13-10	2.68-10	9.73-12	1.02-12	2.04-14	3.21-24	3.08-10	1.82-10
1.08-09	7.53-10	3.34-10	2.73-11	3.11-12	7.06-15	9.14-25	1.12-10	2.39-11
1.14-09	3.76-10	3.60-10	1.07-10	2.22-12	1.35-16	3.83-24	1.65-10	5.22-11
1.13-09	1.06-09	2.06-10	7.12-11	3.65-12	4.51-16	1.36-22	1.60-10	4.93-11
7.55-10	3.26-10	7.93-10	1.93-11	4.31-13	3.56-17	4.84-24	1.72-10	4.23-11
7.70-10	8.34-10	1.33-09	1.00-10	1.19-12	1.35-16	5.45-24	2.80-10	8.49-11
1.40-10	1.49-09	1.62-09	7.97-12	1.30-13	2.61-17	4.98-29	2.92-10	1.68-10
1.83-09	1.55-09	1.21-09	1.18-10	3.25-12	8.12-15	4.86-23		
3.40-10	3.80-10	2.92-10	3.54-11	9.73-13	5.87-15	4.48-23	5.34-10	1.02-10

PHI 90 TO 135 DEGREES

3.73-11	7.66-10	1.56-11	2.51-11	1.71-13	9.05-18	1.41-34	2.74-10	1.53-10
1.25-09	2.99-10	1.74-10	6.21-11	6.49-13	1.96-15	3.47-27	3.21-10	1.70-10
8.20-10	5.72-10	1.98-10	4.12-11	8.12-12	1.32-16	2.10-26	1.09-10	2.50-11
8.21-10	2.41-09	5.96-10	5.85-10	8.88-13	5.04-16	8.69-23	2.28-10	8.58-11
2.79-10	1.35-09	3.55-10	9.45-11	4.97-12	4.28-17	8.71-27	6.98-11	2.41-11
1.19-09	9.83-10	6.52-10	3.20-10	1.96-13	4.66-18	1.24-28	7.44-10	5.87-10
1.21-09	9.07-09	3.77-09	7.39-11	1.55-12	3.48-15	2.98-22	3.46-10	1.35-10
1.12-09	1.41-09	4.19-10	1.27-09	1.72-13	2.03-15	7.36-30	1.31-10	5.40-11
1.83-09	2.35-10	1.03-10	5.54-12	9.05-14	2.64-18	4.68-21	1.33-10	4.07-11
3.77-10	7.46-11	1.34-10	9.07-12	1.35-13	2.77-19	1.49-21	7.42-11	2.58-11
2.06-09	4.82-09	1.82-09	6.49-10	4.05-12	2.23-15	1.03-21		
6.16-10	2.12-09	1.21-09	4.17-10	2.08-12	1.33-15	8.23-22	4.92-10	1.26-10

PHI 135 TO 180 DEGREES

9.63-11	1.25-09	8.75-10	7.92-12	2.15-14	8.04-18	5.87-35	1.57-10	9.71-11
3.26-09	6.44-10	3.67-10	7.49-11	6.77-12	3.17-18	2.38-28	2.03-10	9.03-11
8.87-10	4.04-10	2.57-10	2.72-11	7.29-13	1.35-14	2.43-29	1.19-09	1.08-09
2.38-09	5.38-09	2.29-10	1.58-10	6.45-13	2.36-17	6.80-26	1.74-10	8.86-11
1.94-10	1.16-09	7.10-11	6.27-11	1.35-12	9.73-16	4.63-28	5.98-11	1.77-11
8.39-10	3.04-09	2.20-10	2.15-12	2.26-13	3.42-19	7.45-25	1.55-10	6.27-11
3.58-10	6.14-10	1.25-10	2.43-11	2.03-12	9.97-16	2.43-26	4.56-11	1.22-11
2.44-09	1.63-10	9.92-11	1.69-11	4.05-13	1.18-16	1.20-28	1.09-10	5.79-11
1.10-10	5.84-10	1.91-10	1.50-11	2.05-13	2.84-18	9.74-22	6.25-11	1.69-11
2.10-09	1.09-10	1.17-10	5.16-11	2.96-13	6.22-18	1.03-22	1.11-10	4.46-11
2.68-09	3.13-09	4.18-10	1.02-10	2.68-12	4.14-15	1.75-22		
9.35-10	1.74-09	1.03-10	3.70-11	1.38-12	3.58-15	1.69-22	5.14-10	2.91-10
							9.46-09	6.52-10

AIR SCATTERING 1.31 02 ENERGY 1.00 ANGLE 6.00 01 DIST. 3.05 03
1.25-03 1.07-02 3.20 01 1.9T-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.	4.61-08	1.21-08	0.	0.	0.	0.
4.00 01	0.	0.	0.	1.91-08	0.	0.	0.	0.
6.00 01	0.	0.	0.	5.52-10	9.98-09	0.	0.	0.
8.00 01	0.	0.	0.	0.	6.58-09	0.	0.	0.
9.00 01	0.	0.	0.	0.	4.46-09	0.	0.	0.
1.00 02	0.	0.	0.	0.	2.28-09	1.22-09	0.	0.
1.20 02	0.	0.	0.	0.	0.	1.19-09	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.	2.78-09	4.19-09	5.97-09	5.99-10	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.	3.16-08	7.67-09	1.16-09	2.04-09	4.43-09	3.77-10
4.00 01	0.	0.	0.	1.28-08	1.76-10	1.47-09	2.02-09	3.65-09
6.00 01	0.	0.	0.	1.35-09	8.15-09	6.44-10	2.02-09	9.38-10
8.00 01	0.	0.	0.	0.	5.82-09	1.69-09	1.09-09	1.14-09
9.00 01	0.	0.	0.	0.	3.91-09	1.97-09	7.52-10	6.85-10
1.00 02	0.	0.	0.	0.	5.21-09	3.31-09	1.52-09	4.93-10
1.20 02	0.	0.	0.	0.	5.98-10	2.63-09	1.89-10	5.97-10
1.40 02	0.	0.	0.	7.43-11	2.38-11	1.49-09	2.63-10	1.02-09
1.60 02	0.	0.	0.	0.	5.39-14	4.03-09	1.52-10	1.95-10
1.80 02	0.	0.	0.	0.	0.	1.04-10	4.65-10	4.61-10
	0.	0.	1.91-09	3.06-09	5.95-09	3.98-09	2.09-09	2.01-09
	0.	0.	1.98-10	2.70-10	5.89-10	7.11-10	2.27-10	5.64-10

PH 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	2.09-10	6.90-10	1.42-09	7.10-10
4.00 01	0.	0.	0.	0.	0.	4.39-11	2.36-09	4.79-10
6.00 01	0.	0.	0.	0.	0.	2.70-10	1.23-09	1.58-09
8.00 01	0.	0.	0.	0.	7.67-11	1.94-10	1.03-09	1.15-09
9.00 01	0.	0.	0.	0.	7.66-12	5.41-09	1.97-09	5.16-10
1.00 02	0.	0.	0.	0.	0.	1.33-09	3.62-10	4.65-10
1.20 02	0.	0.	0.	0.	1.71-13	1.36-09	2.00-10	4.52-10
1.40 02	0.	0.	0.	0.	2.61-10	3.24-10	9.35-10	2.55-10
1.60 02	0.	0.	0.	0.	0.	1.14-10	5.38-10	3.36-10
1.80 02	0.	0.	0.	0.	0.	8.45-10	2.90-10	1.81-10
	0.	0.	0.	0.	1.08-10	1.96-09	1.99-09	1.38-09
	0.	0.	0.	0.	7.49-11	9.03-10	4.42-10	2.94-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	3.31-10	2.11-10	1.74-09
4.00 01	0.	0.	0.	0.	0.	1.30-10	7.55-10	5.76-10
6.00 01	0.	0.	0.	0.	0.	7.26-10	2.72-10	1.35-09
8.00 01	0.	0.	0.	0.	0.	2.68-10	5.02-10	3.05-10
9.00 01	0.	0.	0.	0.	1.14-09	0.	8.52-10	5.31-10
1.00 02	0.	0.	0.	0.	0.	5.82-11	3.07-10	1.78-10
1.20 02	0.	0.	0.	0.	0.	0.	6.04-10	5.60-09
1.40 02	0.	0.	0.	0.	1.93-11	1.87-15	9.16-10	3.38-10
1.60 02	0.	0.	0.	0.	0.	2.98-12	4.20-10	2.84-10
1.80 02	0.	0.	0.	0.	0.	6.65-12	2.29-10	6.26-11
	0.	0.	0.	0.	2.03-10	3.34-10	1.11-09	2.76-09
	0.	0.	0.	0.	1.90-10	2.05-10	2.76-10	1.56-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	3.18-10	1.22-09	3.01-09
4.00 01	0.	0.	0.	0.	0.	0.	5.15-10	1.07-09
6.00 01	0.	0.	0.	0.	0.	0.	2.26-10	2.15-09
8.00 01	0.	0.	0.	0.	0.	3.04-09	3.86-09	4.98-10
9.00 01	0.	0.	0.	0.	0.	0.	4.59-10	5.13-10
1.00 02	0.	0.	0.	0.	0.	1.29-11	3.68-10	5.54-10
1.20 02	0.	0.	0.	0.	0.	1.91-12	3.45-10	1.61-10
1.40 02	0.	0.	0.	0.	0.	5.92-11	6.06-11	7.44-10
1.60 02	0.	0.	0.	0.	1.60-11	0.	1.93-09	2.59-10
1.80 02	0.	0.	0.	0.	0.	0.	5.43-11	1.46-10
	0.	0.	0.	0.	2.77-12	1.03-09	2.09-09	1.59-09
	0.	0.	0.	0.	2.77-12	9.94-10	1.21-09	5.62-10

277146002031 330606026065

AIR SCATTERING 1.31 02 ENERGY 1.00 ANGLE 6.00 01 DIST. 3.05 03

4.00 01	1.75 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.	8.12-09	
0.	0.	0.	0.	0.	0.	0.	1.91-09	
0.	0.	0.	0.	0.	0.	0.	9.54-10	
0.	0.	0.	0.	0.	0.	0.	5.92-10	
0.	0.	0.	0.	0.	0.	0.	4.02-10	
0.	0.	0.	0.	0.	0.	0.	2.66-10	
0.	0.	0.	0.	0.	0.	0.	5.95-11	
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.		
							1.40-09	

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		
1.10-09	5.11-10	4.85-11	3.00-10	3.95-13	2.65-18	4.75-26	5.94-09	5.44-10
1.80-09	4.58-10	1.41-10	9.47-11	1.63-12	4.65-15	2.74-25	1.63-09	1.69-10
2.89-10	2.25-10	1.52-10	1.20-10	2.05-12	8.04-15	4.32-26	1.03-09	1.08-10
7.76-10	5.64-10	5.35-10	1.09-10	1.24-12	1.85-17	2.84-27	7.26-10	7.80-11
8.15-10	2.87-10	1.21-10	3.33-11	4.50-13	4.77-15	8.06-27	5.30-10	5.32-11
6.71-10	1.69-09	4.01-10	6.47-11	3.15-11	1.49-16	8.35-23	7.69-10	2.41-10
1.96-09	1.76-09	2.58-10	2.85-11	7.34-13	4.24-15	3.16-28	2.92-10	5.02-11
7.36-10	2.07-10	2.97-10	5.78-11	5.44-13	2.62-16	1.13-28	1.55-10	5.34-11
4.86-10	3.18-10	8.91-11	1.28-11	6.86-13	1.79-17	2.91-27	2.32-10	1.69-10
2.77-10	2.93-10	2.24-11	7.91-12	2.85-13	3.61-17	1.77-24	5.11-11	1.54-11
1.90-09	1.40-09	5.13-10	1.46-10	7.33-12	5.26-15	1.47-23		
3.67-10	3.76-10	1.04-10	4.80-11	5.44-12	2.41-15	1.45-23	1.55-09	8.35-11

PHI 45 TO 90 DEGREES

3.76-10	1.34-10	1.07-10	1.08-10	2.21-13	6.60-18	3.75-25	1.48-10	5.41-11
2.38-09	8.88-10	4.98-10	4.71-12	1.53-11	1.44-14	3.14-23	1.92-10	6.92-11
7.53-10	2.11-10	8.43-10	1.45-10	2.83-12	2.62-16	8.55-24	1.50-10	2.88-11
4.50-10	4.11-10	3.06-10	8.52-10	2.59-11	3.88-17	3.78-28	1.26-10	2.75-11
1.47-09	7.82-10	1.01-09	1.25-09	7.64-12	6.76-16	2.67-28	4.40-10	2.99-10
2.90-10	2.34-09	3.36-10	2.66-11	1.12-13	2.89-17	1.57-24	1.44-10	5.98-11
8.52-10	2.18-10	3.94-10	1.97-10	7.59-13	1.63-15	2.02-23	1.22-10	6.30-11
1.19-09	5.26-10	1.01-09	1.34-10	1.37-11	2.55-15	3.08-21	1.37-10	4.95-11
4.88-10	3.89-10	1.05-10	1.43-11	2.26-13	7.54-18	2.41-23	5.81-11	2.15-11
3.85-10	4.06-11	1.30-10	7.58-10	1.72-12	7.08-16	3.61-28	7.86-11	3.84-11
1.79-09	1.18-09	1.07-09	6.94-10	1.72-11	3.97-15	8.39-22		
5.43-10	3.57-10	2.73-10	3.38-10	7.40-12	2.66-15	8.20-22	3.16-10	6.22-11

PHI 90 TO 135 DEGREES

3.80-10	6.80-10	2.15-10	7.52-11	1.55-13	4.68-14	0.	1.07-10	4.82-11
1.07-09	2.55-10	1.57-10	5.48-11	6.04-12	1.83-16	4.27-26	8.93-11	2.14-11
2.11-10	1.23-10	2.89-10	1.43-10	1.66-12	5.91-18	1.39-26	1.05-10	4.65-11
3.15-09	3.01-10	1.71-10	3.94-11	9.36-13	6.37-18	1.19-24	1.30-10	6.63-11
4.44-10	8.84-10	2.81-10	2.51-11	1.16-12	2.12-18	6.59-26	1.83-10	1.04-10
8.05-11	3.39-10	8.13-10	7.47-12	2.71-13	8.08-18	9.80-28	3.82-11	1.14-11
6.50-10	4.87-10	4.01-10	1.95-10	4.14-12	2.58-16	2.47-23	2.45-10	1.61-10
5.92-10	5.62-10	2.60-10	6.43-10	2.67-11	3.49-17	4.63-20	8.22-11	2.96-11
2.18-10	2.96-10	3.47-10	4.20-11	1.34-11	4.54-14	5.71-31	4.11-11	1.20-11
1.33-11	3.51-10	1.22-10	2.22-11	3.15-14	6.37-18	7.08-32	1.89-11	7.86-12
1.79-09	8.09-10	6.30-10	3.14-10	1.28-11	1.08-14	1.23-20		
8.48-10	1.80-10	1.60-10	1.78-10	8.45-12	8.03-15	1.23-20	2.40-10	6.30-11

PHI 135 TO 180 DEGREES

8.45-11	1.76-10	4.98-10	4.12-11	3.21-13	7.32-15	3.25-25	1.78-10	6.73-11
6.01-10	6.60-10	1.07-10	9.67-12	2.50-13	6.10-16	1.92-27	8.31-11	2.28-11
4.42-10	5.85-10	7.25-10	5.55-11	3.38-14	2.99-16	7.90-29	1.11-10	6.52-11
7.80-10	3.49-10	8.98-11	6.63-12	2.01-13	1.24-16	2.66-25	3.49-10	2.98-10
2.99-10	1.67-10	1.25-09	2.26-10	3.71-13	2.54-17	8.47-23	6.28-11	2.27-11
4.16-10	4.56-10	1.14-09	1.37-10	8.18-11	3.62-18	1.22-27	6.68-11	2.15-11
1.06-09	4.56-10	4.86-10	9.49-10	7.62-14	1.16-17	1.10-26	6.72-11	2.25-11
2.99-10	1.89-09	1.49-10	1.46-10	1.39-13	1.10-15	2.63-22	6.96-11	3.21-11
1.66-10	5.67-11	1.13-10	9.63-11	1.29-13	2.77-15	4.73-26	9.47-11	5.11-11
3.45-09	3.91-10	4.74-11	2.30-10	2.10-12	1.19-16	3.56-26	1.02-10	6.59-11
1.27-09	1.19-09	9.06-10	4.63-10	1.46-11	1.46-15	8.49-23		
3.61-10	4.56-10	3.30-10	2.81-10	1.41-11	6.63-16	7.16-23	2.54-10	1.01-10
							3.72-09	2.75-10

AIR SCATTERING 1.32 02 ENERGY 1.00 ANGLE 9.00 01 DIST. 3.05 03
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.	2.57-08	2.00-08	0.	0.	0.
4.00 01	0.	0.	0.	0.	1.29-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	5.66-09	0.	0.	0.
8.00 01	0.	0.	0.	0.	9.78-10	1.27-09	0.	0.
9.00 01	0.	0.	0.	0.	0.	6.36-11	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.	1.55-09	5.27-09	4.25-10	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.	1.70-08	1.36-08	1.35-09	2.65-09	8.99-10
4.00 01	0.	0.	0.	1.08-09	8.66-09	1.47-09	1.61-09	1.13-09
6.00 01	0.	0.	0.	0.	4.71-09	2.46-09	5.61-10	9.36-10
8.00 01	0.	0.	0.	0.	1.16-09	2.31-09	5.20-10	9.23-10
9.00 01	0.	0.	0.	0.	7.77-11	1.44-09	7.18-10	5.36-10
1.00 02	0.	0.	0.	0.	3.30-12	6.22-10	2.04-10	2.40-10
1.20 02	0.	0.	0.	0.	5.26-13	3.33-10	3.32-10	4.57-10
1.40 02	0.	0.	0.	0.	8.13-13	3.45-10	6.49-11	6.59-10
1.60 02	0.	0.	0.	0.	0.	1.59-12	3.75-10	1.96-10
1.80 02	0.	0.	0.	0.	0.	0.	9.92-11	2.51-10
	0.	0.	0.	1.21-09	3.97-09	2.30-09	1.11-09	1.31-09
	0.	0.	0.	1.86-10	2.01-10	2.03-10	1.42-10	1.83-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	1.15-09	0.	7.88-10	3.00-09	4.08-09
4.00 01	0.	0.	0.	0.	1.70-09	3.78-10	9.96-10	5.16-10
6.00 01	0.	0.	0.	0.	5.03-11	2.33-10	1.03-09	1.14-09
8.00 01	0.	0.	0.	0.	0.	3.23-10	2.25-10	9.57-10
9.00 01	0.	0.	0.	0.	0.	5.50-11	6.58-10	2.43-10
1.00 02	0.	0.	0.	0.	0.	2.21-10	3.79-10	9.43-11
1.20 02	0.	0.	0.	0.	5.30-12	5.34-11	2.47-10	2.85-10
1.40 02	0.	0.	0.	0.	0.	1.72-11	3.49-10	4.14-10
1.60 02	0.	0.	0.	0.	0.	4.89-11	8.15-10	4.50-10
1.80 02	0.	0.	0.	0.	0.	0.	2.46-11	1.15-10
	0.	0.	0.	6.94-11	3.10-10	3.59-10	1.20-09	1.30-09
	0.	0.	0.	6.94-11	2.13-10	8.41-11	1.87-10	3.73-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	8.48-10	1.81-09	3.67-09	5.10-10
4.00 01	0.	0.	0.	0.	0.	8.05-10	9.91-10	4.74-10
6.00 01	0.	0.	0.	0.	9.11-10	4.10-10	5.66-10	5.66-10
8.00 01	0.	0.	0.	0.	1.71-11	7.64-11	2.63-10	1.23-08
9.00 01	0.	0.	0.	0.	0.	0.	9.79-11	4.32-10
1.00 02	0.	0.	0.	0.	0.	0.	2.41-10	5.38-10
1.20 02	0.	0.	0.	0.	1.19-12	9.41-13	2.62-11	7.32-11
1.40 02	0.	0.	0.	0.	2.60-15	3.14-15	8.73-11	7.60-10
1.60 02	0.	0.	0.	0.	0.	2.75-13	1.28-09	1.52-10
1.80 02	0.	0.	0.	0.	0.	5.91-11	1.75-09	1.86-10
	0.	0.	0.	0.	5.71-11	5.20-10	1.01-09	4.72-09
	0.	0.	0.	0.	5.14-11	2.22-10	2.63-10	3.97-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	1.25-09	4.25-10	9.11-10	1.47-09
4.00 01	0.	0.	0.	0.	0.	0.	8.51-10	6.15-10
6.00 01	0.	0.	0.	0.	0.	0.	1.16-10	2.72-10
8.00 01	0.	0.	0.	0.	0.	0.	4.62-11	3.28-10
9.00 01	0.	0.	0.	0.	0.	0.	2.45-10	8.27-11
1.00 02	0.	0.	0.	0.	0.	1.51-11	8.84-11	3.64-10
1.20 02	0.	0.	0.	0.	0.	7.62-12	1.10-11	1.55-10
1.40 02	0.	0.	0.	0.	0.	3.58-14	7.41-11	1.12-10
1.60 02	0.	0.	0.	0.	0.	3.20-15	3.16-11	2.11-10
1.80 02	0.	0.	0.	0.	0.	0.	3.34-11	5.69-11
	0.	0.	0.	0.	7.54-11	3.08-11	3.37-10	5.73-10
	0.	0.	0.	0.	7.54-11	2.59-11	7.71-11	1.21-10

330606026065 0014035120 61

AIR SCATTERING 1.32 02 ENERGY 1.00 ANGLE 9.00 01 DIST. 3.05 03
5.40 01 1.74 03 0. 0. 5.50 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.	4.36-09
0.	0.	0.	0.	0.	0.	0.	1.16-09
0.	0.	0.	0.	0.	0.	0.	5.09-10
0.	0.	0.	0.	0.	0.	0.	1.51-10
0.	0.	0.	0.	0.	0.	0.	3.18-12
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
							6.50-10

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		
2.81-10	5.89-10	1.19-09	3.82-11	4.02-12	6.40-17	4.13-31	3.16-09	2.55-10
4.72-10	5.10-10	1.10-10	6.92-11	1.09-12	5.72-14	1.38-23	1.08-09	1.06-10
1.53-09	1.05-08	6.93-10	1.09-10	1.99-13	3.97-15	7.38-24	8.06-10	1.47-10
6.92-10	5.35-10	2.66-10	2.55-11	5.36-13	8.12-16	1.84-22	3.01-10	2.26-11
1.35-09	1.62-10	1.32-10	3.27-11	2.73-10	6.13-16	6.06-23	1.66-10	3.17-11
5.18-10	3.46-10	8.88-11	6.00-12	7.88-12	4.68-16	1.31-23	6.71-11	1.31-11
3.09-10	2.66-10	2.55-10	1.73-10	7.39-12	1.45-16	1.24-25	6.19-11	1.22-11
5.70-10	2.02-10	1.41-10	5.26-11	1.08-12	6.26-16	4.55-25	6.18-11	1.75-11
9.84-11	1.84-10	4.15-10	8.26-11	9.11-14	2.69-17	2.07-25	3.27-11	1.22-11
1.55-10	4.40-10	1.23-10	3.50-11	9.47-14	2.33-18	9.09-39	2.48-11	9.29-12
1.33-09	3.39-09	6.00-10	1.45-10	5.21-11	1.17-14	7.75-23		
2.12-10	2.31-09	1.68-10	5.02-11	4.72-11	9.20-15	3.94-23	7.76-10	3.07-11

PHI 45 TO 90 DEGREES

7.70-10	2.39-10	9.53-11	4.18-09	3.38-14	8.68-16	2.73-35	4.75-10	2.06-10
1.23-09	2.83-10	4.17-10	7.85-11	6.19-12	9.51-19	1.69-27	2.70-10	1.12-10
8.89-10	3.94-10	2.46-09	8.72-11	7.47-13	8.98-16	3.38-28	1.55-10	3.70-11
3.17-10	4.70-10	1.04-08	4.37-11	1.20-11	4.84-16	1.80-22	1.98-10	1.26-10
6.33-10	2.52-10	1.79-10	5.49-10	9.37-12	9.39-15	1.52-28	6.41-11	1.96-11
6.42-11	1.85-10	1.07-10	1.13-11	2.29-11	2.13-15	1.24-25	3.53-11	1.32-11
3.89-10	2.91-10	1.50-09	6.46-10	2.59-12	6.16-15	1.04-23	6.06-11	2.50-11
7.59-11	1.36-09	1.34-10	1.34-11	2.73-12	1.12-16	1.37-26	5.29-11	2.40-11
1.50-10	4.87-10	3.63-10	4.76-11	1.93-13	3.02-16	4.23-30	6.62-11	2.54-11
9.12-10	6.77-10	4.69-11	1.21-11	2.77-12	1.25-17	2.71-33	3.86-11	2.19-11
9.49-10	9.80-10	4.77-09	6.24-10	1.26-11	4.54-15	6.22-23		
1.83-10	3.22-10	3.42-09	3.72-10	6.27-12	3.35-15	5.88-23	2.46-10	5.16-11

PHI 90 TO 135 DEGREES

2.47-10	1.94-10	2.66-10	9.62-12	3.90-12	2.02-17	1.22-27	3.43-10	1.34-10
7.64-10	2.41-10	1.24-10	2.70-10	5.37-12	6.17-18	4.66-28	1.23-10	2.84-11
2.57-10	2.32-10	3.95-10	2.84-11	1.31-12	1.08-16	4.41-29	9.61-11	3.57-11
2.48-10	2.27-10	4.84-11	2.76-11	2.57-11	8.63-16	2.06-25	4.46-10	4.13-10
1.42-10	7.60-11	2.06-10	4.79-11	1.37-13	2.23-17	1.26-24	2.62-11	7.43-12
3.13-10	1.06-09	1.80-10	6.76-12	3.65-14	2.34-16	2.18-29	5.38-11	1.74-11
1.99-10	3.85-11	1.41-10	1.86-11	1.99-13	3.34-16	1.21-25	1.11-11	2.42-12
1.10-10	1.23-10	4.70-11	1.08-10	2.69-13	1.76-17	2.26-29	3.55-11	2.02-11
1.35-10	9.04-11	1.76-10	7.65-11	1.49-12	4.92-16	5.37-29	6.39-11	4.90-11
1.82-10	8.49-11	2.28-09	7.01-11	1.02-12	1.24-17	2.76-28	1.13-10	6.22-11
5.05-10	4.52-10	4.52-10	1.26-10	1.04-11	5.57-16	3.26-25		
8.94-11	1.80-10	1.36-10	4.07-11	8.33-12	2.33-16	1.66-25	2.58-10	1.36-10

PHI 135 TO 180 DEGREES

1.29-11	1.72-10	1.22-10	2.01-10	3.17-13	1.83-17	5.19-27	2.26-10	1.22-10
4.02-10	2.06-10	2.87-10	2.54-11	2.13-13	1.21-18	2.30-27	7.18-11	1.61-11
1.23-09	3.73-10	1.47-10	2.86-11	6.00-14	6.73-17	2.07-26	5.22-11	2.07-11
2.02-10	1.48-10	6.58-11	3.20-11	8.77-13	5.80-18	5.98-27	2.14-11	5.70-12
1.38-10	9.86-11	6.71-11	2.01-11	8.51-13	1.17-17	5.76-30	1.85-11	8.55-12
3.13-11	1.96-10	8.99-11	3.94-11	1.52-13	4.02-16	5.08-27	2.18-11	6.52-12
1.06-10	2.03-10	1.75-10	2.01-11	1.18-13	2.01-18	5.35-24	1.41-11	3.36-12
2.80-11	4.69-11	5.03-10	1.34-09	1.60-12	4.27-18	4.06-24	2.63-11	1.12-11
3.97-10	2.01-10	1.30-10	1.47-11	1.41-12	2.02-14	5.11-23	2.31-11	1.04-11
2.12-11	6.57-10	1.56-10	1.08-10	4.68-11	3.32-15	1.18-25	1.68-11	1.13-11
6.05-10	3.98-10	3.68-10	4.18-10	4.06-12	3.81-15	1.17-23		
2.28-10	8.48-11	1.66-10	2.72-10	2.76-12	3.70-15	1.01-23	7.06-11	1.15-11
							2.12-09	2.74-10

AIR SCATTERING 1.33 02 ENERGY 1.00 ANGLE 1.35 02 DIST. 3.05 03
1.25-03 1.07-02 3.20 01 1.9T-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.	5.00-08	0.	0.	0.
4.00 01	0.	0.	0.	0.	1.29-09	8.32-09	0.	0.
6.00 01	0.	0.	0.	0.	0.	5.00-12	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.	3.24-09	1.45-09	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.	3.46-08	6.97-09	1.35-09	7.54-10
4.00 01	0.	0.	0.	0.	1.50-09	9.62-09	2.32-09	1.54-09
6.00 01	0.	0.	0.	0.	1.12-10	1.31-09	2.82-10	8.13-10
8.00 01	0.	0.	0.	0.	1.68-12	5.25-10	3.50-10	8.54-10
9.00 01	0.	0.	0.	0.	0.	7.80-11	8.43-10	6.03-10
1.00 02	0.	0.	0.	0.	0.	3.52-10	2.39-10	6.80-10
1.20 02	0.	0.	0.	0.	0.	3.91-11	2.85-10	2.74-10
1.40 02	0.	0.	0.	0.	0.	0.	1.45-10	8.62-10
1.60 02	0.	0.	0.	0.	0.	0.	7.63-10	5.96-10
1.80 02	0.	0.	0.	0.	0.	0.	8.60-12	1.81-09
	0.	0.	0.	0.	2.38-09	2.70-09	1.13-09	1.56-09
	0.	0.	0.	0.	1.34-10	1.95-10	2.48-10	3.49-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	7.29-09	3.90-10	4.92-10
4.00 01	0.	0.	0.	0.	0.	1.44-09	1.03-09	7.94-10
6.00 01	0.	0.	0.	0.	0.	2.17-10	4.42-10	7.50-10
8.00 01	0.	0.	0.	0.	0.	1.51-10	1.86-10	5.31-10
9.00 01	0.	0.	0.	0.	0.	1.89-12	2.31-10	6.17-10
1.00 02	0.	0.	0.	0.	3.51-11	2.46-10	1.17-10	3.10-10
1.20 02	0.	0.	0.	0.	0.	4.35-11	1.77-10	1.59-10
1.40 02	0.	0.	0.	0.	1.37-13	2.03-11	5.33-10	1.08-10
1.60 02	0.	0.	0.	0.	0.	0.	7.52-11	1.49-10
1.80 02	0.	0.	0.	0.	0.	0.	6.23-11	3.72-12
	0.	0.	0.	0.	6.13-12	8.60-10	6.58-10	8.08-10
	0.	0.	0.	0.	6.09-12	1.94-10	1.58-10	1.27-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.71-09	9.10-10	1.62-09
4.00 01	0.	0.	0.	0.	0.	1.32-10	8.23-10	9.84-10
6.00 01	0.	0.	0.	0.	0.	3.92-13	5.41-10	2.46-10
8.00 01	0.	0.	0.	0.	2.17-11	0.	8.69-11	2.30-10
9.00 01	0.	0.	0.	0.	0.	0.	3.36-10	8.98-11
1.00 02	0.	0.	0.	0.	0.	4.33-13	1.10-10	1.08-10
1.20 02	0.	0.	0.	0.	0.	0.	1.23-10	8.20-11
1.40 02	0.	0.	0.	0.	0.	0.	4.16-11	1.78-10
1.60 02	0.	0.	0.	0.	0.	0.	4.49-11	6.52-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.86-10
	0.	0.	0.	0.	7.08-12	1.26-10	5.07-10	5.40-10
	0.	0.	0.	0.	7.08-12	7.57-11	8.85-11	1.23-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	3.10-09	1.12-09	1.49-10
4.00 01	0.	0.	0.	0.	0.	3.71-09	5.92-10	5.47-10
6.00 01	0.	0.	0.	0.	0.	5.86-13	6.00-10	2.27-09
8.00 01	0.	0.	0.	0.	0.	0.	2.93-10	2.22-10
9.00 01	0.	0.	0.	0.	0.	4.58-11	7.54-10	1.40-09
1.00 02	0.	0.	0.	0.	0.	0.	4.13-10	7.63-11
1.20 02	0.	0.	0.	0.	0.	0.	1.12-12	2.32-10
1.40 02	0.	0.	0.	0.	0.	0.	1.97-12	3.95-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	5.69-12
1.80 02	0.	0.	0.	0.	0.	0.	5.53-12	4.02-11
	0.	0.	0.	0.	0.	8.40-10	6.29-10	1.13-09
	0.	0.	0.	0.	0.	4.33-10	1.64-10	4.07-10

0014035120 61 310120564401

AIR SCATTERING 1.33 02 ENERGY 1.00 ANGLE 1.35 02 DIST. 3.05 03

5.70 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.	4.50-09
0.	0.	0.	0.	0.	0.	0.	5.32-10
0.	0.	0.	0.	0.	0.	0.	2.50-13
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	3.64-10

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		
8.89-10	6.00-10	2.63-10	1.42-10	1.71-12	6.37-17	1.58-30	3.58-09	2.22-10
3.35-09	8.35-10	4.51-10	1.97-10	3.12-12	4.76-17	2.22-24	8.65-10	9.32-11
5.25-10	1.06-09	3.74-10	1.23-10	7.17-13	7.35-16	4.45-24	1.49-10	2.31-11
4.23-10	6.31-10	2.25-10	8.36-11	7.28-13	6.10-16	9.68-28	9.30-11	2.02-11
8.28-10	2.90-10	4.60-10	1.55-10	2.91-13	3.72-15	1.22-26	9.01-11	2.74-11
5.94-10	1.07-09	4.55-10	5.18-10	1.61-13	8.76-14	1.21-27	9.12-11	2.78-11
1.99-09	8.03-10	7.46-11	6.73-11	1.43-13	2.29-17	9.73-25	8.30-11	4.44-11
6.64-10	2.09-10	2.26-10	4.33-11	1.59-12	1.17-16	1.22-26	5.79-11	2.82-11
3.52-10	4.21-11	1.47-10	4.80-12	2.16-13	6.81-16	2.98-26	6.20-11	5.08-11
5.58-11	1.28-10	7.90-11	2.88-11	8.17-13	1.78-16	3.20-30	6.64-11	5.86-11
2.05-09	1.17-09	5.41-10	2.56-10	1.71-12	1.64-14	1.90-24		
7.76-10	2.67-10	1.12-10	9.88-11	5.61-13	1.52-14	1.19-24	5.25-10	3.31-11

PHI 45 TO 90 DEGREES

6.02-10	9.25-10	3.49-10	1.11-10	6.49-13	1.10-16	2.47-20	4.31-10	1.48-10
8.60-10	4.74-10	4.70-10	7.93-11	1.40-12	5.91-15	5.75-23	1.75-10	3.39-11
6.40-10	4.85-10	2.11-10	1.69-10	7.11-12	4.04-17	4.40-24	8.14-11	1.54-11
6.04-10	5.77-10	3.58-10	3.70-11	6.27-13	1.50-16	7.21-24	6.14-11	1.02-11
4.74-10	7.92-10	4.28-11	3.30-11	2.61-13	1.22-15	2.37-24	5.49-11	1.59-11
1.64-09	7.43-11	7.73-11	3.56-11	2.70-12	3.94-15	1.24-23	7.41-11	2.71-11
3.43-10	7.77-11	1.77-10	1.28-10	1.55-12	5.75-17	3.37-23	2.77-11	6.81-12
6.46-11	1.53-10	1.63-10	1.99-11	4.51-12	3.84-19	5.76-26	3.21-11	1.63-11
8.49-10	1.17-10	3.02-11	2.60-11	8.05-13	3.80-16	2.33-29	3.17-11	1.33-11
7.39-11	2.39-10	1.67-10	4.52-12	2.55-12	9.50-21	1.91-36	1.01-11	4.35-12
1.20-09	7.07-10	4.13-10	1.41-10	4.89-12	2.08-15	1.52-21		
2.33-10	1.40-10	9.66-11	4.36-11	2.36-12	1.26-15	1.50-21	1.44-10	1.64-11

PHI 90 TO 135 DEGREES

9.53-10	3.56-10	1.36-09	3.39-10	6.68-12	3.31-16	2.26-25	2.26-10	7.30-11
3.83-10	3.76-10	1.03-09	1.06-10	1.01-12	1.67-15	1.37-22	1.02-10	2.47-11
3.88-10	6.94-10	3.63-10	4.65-11	7.89-12	2.24-15	3.71-25	5.50-11	1.11-11
5.62-10	1.70-10	1.53-10	8.52-11	2.32-12	2.41-15	1.53-23	3.24-11	9.64-12
4.76-10	2.12-10	1.60-10	2.17-11	2.61-12	2.67-14	6.49-28	3.37-11	1.24-11
1.28-10	7.63-10	2.55-10	3.85-11	1.18-12	1.56-14	5.46-23	2.61-11	8.59-12
1.15-10	3.50-10	1.28-10	3.91-11	2.49-14	2.26-16	5.09-26	1.77-11	4.77-12
1.27-10	2.21-10	3.55-10	2.63-11	9.91-14	1.81-19	3.91-28	1.87-11	5.18-12
3.07-10	2.00-10	2.04-10	8.67-12	1.37-13	2.10-14	3.77-29	1.72-11	5.63-12
5.35-11	1.62-11	4.57-11	8.26-12	1.24-14	5.06-16	2.81-31	8.53-12	6.49-12
6.43-10	7.05-10	6.54-10	1.11-10	4.15-12	1.28-14	3.85-23		
1.39-10	1.75-10	1.48-10	2.85-11	2.17-12	6.58-15	2.56-23	8.11-11	8.81-12

PHI 135 TO 180 DEGREES

2.82-10	9.46-09	1.04-10	1.29-11	5.49-13	2.59-17	8.29-24	3.55-10	1.57-10
4.04-10	2.74-10	3.44-10	3.52-11	8.13-14	3.50-17	1.38-21	2.46-10	1.23-10
1.85-09	3.55-10	4.40-10	3.93-11	6.93-12	9.48-16	2.45-27	1.59-10	6.36-11
2.06-10	3.73-10	7.96-11	9.83-12	5.62-12	2.69-18	5.51-29	3.11-11	8.22-12
2.50-10	2.19-10	4.97-10	2.29-11	3.06-12	4.55-17	2.99-24	9.59-11	5.27-11
9.13-11	3.45-10	3.14-10	1.17-10	1.55-12	2.33-14	1.63-26	3.14-11	1.62-11
4.73-10	5.93-11	1.26-10	2.09-10	5.32-13	1.90-15	2.23-22	2.40-11	7.48-12
2.78-10	4.53-11	8.45-11	1.45-10	2.95-13	3.73-18	6.33-26	1.14-11	4.38-12
4.15-10	1.26-10	1.47-10	4.69-11	3.03-12	1.56-17	2.62-31	1.47-11	9.08-12
2.53-10	1.73-10	6.87-11	3.33-12	1.40-14	1.61-18	2.27-29	1.14-11	6.71-12
1.02-09	9.96-10	4.43-10	1.60-10	5.31-12	4.94-15	3.14-22		
4.48-10	5.45-10	1.17-10	6.89-11	2.48-12	4.47-15	2.51-22	1.53-10	3.49-11
							1.42-09	9.08-11

AIR SCATTERING 1.34 02 ENERGY 1.00 ANGLE 1.80 02 DIST. 3.05 03
1.25-03 1.07-02 3.20 01 1.9T-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.	1.02-07	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.	6.13-09	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.	1.77-10	7.25-08	8.17-10	1.19-09
4.00 01	0.	0.	0.	0.	1.28-12	1.44-09	4.31-10	8.36-10
6.00 01	0.	0.	0.	0.	0.	2.04-10	1.45-09	5.11-10
8.00 01	0.	0.	0.	0.	0.	7.72-11	2.16-10	2.99-10
9.00 01	0.	0	0.	0.	0.	3.00-15	2.77-10	1.58-10
1.00 02	0.	0.	0.	0.	0.	0.	5.15-10	1.14-10
1.20 02	0.	0.	0.	0.	0.	0.	1.57-10	5.99-10
1.40 02	0.	0.	0.	0.	0.	0.	3.88-10	5.54-09
1.60 02	0.	0.	0.	0.	0.	0.	3.04-14	4.25-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	4.73-10
	0.	0.	0.	0.	1.09-11	4.70-09	8.73-10	2.27-09
	0.	0.	0.	0.	1.03-11	2.31-10	2.11-10	1.43-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	3.09-13	7.05-09	2.56-09	1.48-09
4.00 01	0.	0.	0.	0.	1.42-12	1.80-09	5.97-10	1.41-09
6.00 01	0.	0.	0.	0.	0.	8.09-11	6.49-10	2.71-10
8.00 01	0.	0.	0.	0.	0.	3.22-12	3.78-10	3.75-10
9.00 01	0.	0.	0.	0.	0.	0.	3.63-10	3.18-10
1.00 02	0.	0.	0.	0.	0.	0.	2.76-10	5.40-10
1.20 02	0.	0.	0.	0.	0.	0.	3.21-10	1.62-09
1.40 02	0.	0.	0.	0.	0.	0.	1.57-11	4.30-10
1.60 02	0.	0.	0.	0.	0.	0.	6.68-11	2.54-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	8.92-10
	0.	0.	0.	0.	2.66-13	7.60-10	7.85-10	1.42-09
	0.	0.	0.	0.	2.47-13	1.82-10	1.81-10	4.08-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	2.89-10	6.35-09	8.09-10	5.18-10
4.00 01	0.	0.	0.	0.	5.99-12	1.88-09	1.80-10	5.67-10
6.00 01	0.	0.	0.	0.	2.49-12	1.86-10	4.48-10	2.04-10
8.00 01	0.	0.	0.	0.	0.	2.71-11	4.25-10	2.87-10
9.00 01	0.	0.	0.	0.	0.	0.	8.40-11	2.21-10
1.00 02	0.	0.	0.	0.	0.	0.	7.87-11	5.90-10
1.20 02	0.	0.	0.	0.	0.	1.25-11	9.68-11	4.90-11
1.40 02	0.	0.	0.	0.	0.	0.	1.00-11	2.26-10
1.60 02	0.	0.	0.	0.	0.	0.	1.45-11	9.95-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	8.36-11
	0.	0.	0.	0.	1.91-11	7.72-10	4.03-10	5.17-10
	0.	0.	0.	0.	1.66-11	1.52-10	1.19-10	9.37-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	2.80-11	7.29-09	4.21-10	1.42-09
4.00 01	0.	0.	0.	0.	0.	5.28-10	6.99-10	3.77-10
6.00 01	0.	0.	0.	0.	4.53-11	2.69-10	3.29-09	2.77-10
8.00 01	0.	0.	0.	0.	0.	6.82-11	2.99-10	5.09-10
9.00 01	0.	0.	0.	0.	0.	0.	5.32-11	2.05-10
1.00 02	0.	0.	0.	0.	0.	0.	1.91-10	6.90-11
1.20 02	0.	0.	0.	0.	0.	0.	5.48-11	8.09-11
1.40 02	0.	0.	0.	0.	0.	0.	1.49-12	2.17-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	3.01-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.85-11
	0.	0.	0.	0.	1.38-11	6.25-10	1.18-09	5.76-10
	0.	0.	0.	0.	1.11-11	9.33-11	6.79-10	1.54-10

310120564401 075712721405

AIR SCATTERING 1.34 02 ENERGY 1.00 ANGLE 1.80 02 DIST. 3.05 03
4.20 01 1.75 03 0. 0. 5.48 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.	5.09-09
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.
0.	0.	0.	0.	0.	0.	0.	3.07-10

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		
4.54-10	5.21-10	1.48-10	3.63-11	1.01-13	1.05-18	4.56-28	3.74-09	1.75-10
3.45-10	3.29-10	1.65-10	5.25-11	3.38-13	2.53-15	1.42-21	1.34-10	3.00-11
4.24-10	6.96-10	1.84-10	1.67-11	1.61-12	1.83-17	1.02-23	1.09-10	2.93-11
3.50-10	1.21-09	8.35-11	1.39-11	6.16-13	7.72-17	9.26-27	5.06-11	1.26-11
7.25-10	1.99-10	3.31-10	8.79-12	3.34-13	1.10-17	2.09-25	4.16-11	1.36-11
5.71-10	7.10-10	1.49-10	3.95-12	7.01-14	5.50-18	5.00-28	5.13-11	1.88-11
7.98-11	7.67-10	2.07-09	5.64-11	4.84-12	2.53-15	4.29-30	6.55-11	2.51-11
5.85-10	1.95-10	2.76-09	7.19-11	4.00-12	1.06-17	3.55-28	2.55-10	1.89-10
1.85-10	1.70-10	5.22-11	7.32-11	5.22-14	2.63-14	5.16-33	2.29-11	1.28-11
5.65-10	1.33-10	1.98-12	5.49-12	3.97-15	1.57-15	4.18-29	3.23-11	2.11-11
7.87-10	1.16-09	1.61-09	7.31-11	3.42-12	5.96-15	2.49-22		
1.65-10	3.29-10	8.83-10	2.65-11	1.78-12	4.75-15	2.49-22	4.05-10	5.90-11

PHI 45 TO 90 DEGREES

1.51-09	2.91-10	3.15-10	5.53-11	7.17-12	3.09-18	8.44-28	5.52-10	1.72-10
2.06-09	3.81-10	8.69-11	8.50-11	1.65-12	6.54-16	1.17-25	2.21-10	6.31-11
1.21-09	1.74-09	8.81-10	6.59-11	7.53-13	1.64-16	2.77-22	1.07-10	3.92-11
2.71-10	1.96-10	1.35-09	5.17-10	3.43-12	3.65-17	8.56-25	5.86-11	1.78-11
1.13-09	2.13-10	2.03-10	1.06-11	1.84-13	5.55-17	5.91-24	5.94-11	2.24-11
6.19-11	5.20-10	3.65-10	4.86-11	7.12-14	1.85-17	6.47-29	4.36-11	1.69-11
5.49-11	3.07-09	2.02-10	2.54-11	1.46-13	6.80-18	9.36-26	1.18-10	5.99-11
2.00-10	1.09-09	2.87-10	3.32-10	2.29-13	9.55-19	9.93-25	4.31-11	1.61-11
8.18-11	6.20-11	1.94-10	3.86-11	1.13-12	1.54-15	6.61-26	1.70-11	7.28-12
1.78-12	0.	2.02-10	1.53-11	1.36-12	3.95-17	0.	3.30-11	2.26-11
1.15-09	2.04-09	9.95-10	3.19-10	2.47-12	4.55-16	7.54-23		
3.66-10	9.94-10	4.28-10	1.83-10	1.13-12	3.01-16	7.38-23	1.92-10	3.00-11

PHI 90 TO 135 DEGREES

5.08-10	2.18-10	2.16-10	1.66-11	7.53-13	1.35-17	9.88-29	4.12-10	7.85-11
4.02-10	3.42-10	9.76-10	1.63-10	4.82-13	4.33-17	7.96-24	1.50-10	3.58-11
6.65-10	2.49-10	2.45-10	3.44-11	1.61-12	1.11-14	3.28-24	5.80-11	1.59-11
5.78-10	3.75-10	6.01-10	6.28-10	3.56-12	1.78-15	2.94-25	6.11-11	1.69-11
4.18-10	2.58-10	8.66-11	4.51-11	9.85-13	7.79-19	4.00-30	2.66-11	7.83-12
1.22-09	9.04-11	3.42-10	3.87-11	2.02-13	3.06-16	5.95-29	5.96-11	2.46-11
1.62-10	7.49-11	9.53-10	1.97-09	6.08-12	4.12-15	1.37-27	4.06-11	2.80-11
2.49-10	1.59-10	3.07-10	1.21-11	4.03-13	2.00-14	2.50-22	2.05-11	6.89-12
4.03-10	4.77-10	5.05-11	3.06-12	1.68-13	2.23-16	5.27-23	2.18-11	1.10-11
5.17-10	8.51-12	4.41-12	2.05-11	1.24-12	1.46-19	0.	1.61-11	1.23-11
9.71-10	4.72-10	9.20-10	9.07-10	4.12-12	1.03-14	7.80-23		
2.53-10	1.15-10	3.42-10	6.18-10	1.65-12	7.36-15	6.67-23	1.25-10	1.62-11

PHI 135 TO 180 DEGREES

5.00-10	2.42-10	6.56-10	1.18-10	2.53-12	5.27-18	2.00-27	4.57-10	7.36-11
3.86-10	3.77-10	4.90-10	8.76-11	8.43-14	7.30-16	2.14-26	8.92-11	1.77-11
2.14-09	1.29-09	4.92-10	2.03-11	1.49-12	9.29-16	4.27-28	2.37-10	1.21-10
4.23-10	1.22-10	2.27-10	7.29-11	3.65-12	4.13-15	4.63-27	4.85-11	1.73-11
2.81-10	1.23-10	2.41-10	1.06-10	1.72-13	7.37-16	2.71-22	2.18-11	4.89-12
1.28-10	3.79-11	1.07-10	9.16-12	1.25-12	1.69-16	1.01-23	1.51-11	6.17-12
6.70-11	1.24-10	3.72-10	3.54-11	8.06-14	2.97-16	2.04-24	1.33-11	4.18-12
1.34-10	7.57-11	3.41-10	3.82-12	7.18-14	7.70-16	2.03-23	1.61-11	6.33-12
1.02-11	1.92-10	3.21-10	1.38-11	4.52-14	7.56-17	1.19-29	1.73-11	7.77-12
4.17-10	8.56-12	3.03-10	1.58-10	5.45-13	1.95-19	2.56-31	1.62-11	1.08-11
9.60-10	5.85-10	6.76-10	9.59-11	2.09-12	2.20-15	5.49-23		
5.04-10	3.05-10	2.28-10	2.67-11	7.85-13	1.47-15	4.21-23	1.41-10	3.45-11
							1.36-09	1.35-10

AIR SCATTERING 1.35 02 ENERGY 6.00-01 ANGLE 1.00 DIST. 3.05 03
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	1.47-05	0.	0.	0.	0.	0.	0.	0.
4.00 01	3.81-06	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	1.93-06	0.	0.	0.	0.	0.	0.
8.00 01	0.	3.76-07	6.93-07	0.	0.	0.	0.	0.
9.00 01	0.	0.	5.90-07	0.	0.	0.	0.	0.
1.00 02	0.	0.	5.47-07	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	1.45-06	0.	0.	0.	0.
1.40 02	0.	0.	0.	1.24-06	5.84-07	0.	0.	0.
1.60 02	0.	0.	0.	0.	2.36-06	0.	0.	0.
1.80 02	0.	0.	0.	0.	6.33-06	0.	0.	0.
	1.55-06	6.36-07	4.24-07	8.04-07	9.48-07	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	9.45-06	5.55-09	2.55-09	3.22-09	1.11-09	5.82-10	5.40-09	1.22-10
4.00 01	2.43-06	4.79-09	0.	0.	3.69-09	4.88-10	1.15-07	2.92-10
6.00 01	0.	1.23-06	1.10-09	1.00-09	4.12-10	2.89-09	8.47-09	2.53-10
8.00 01	0.	2.40-07	4.41-07	3.17-09	3.49-10	2.07-09	1.23-09	2.50-09
9.00 01	0.	0.	3.75-07	0.	1.17-09	1.93-09	2.16-10	1.41-09
1.00 02	0.	0.	3.48-07	0.	1.45-08	3.66-09	1.42-09	3.49-10
1.20 02	0.	0.	0.	9.25-07	7.43-10	2.05-09	2.25-09	1.54-09
1.40 02	0.	0.	0.	7.89-07	3.75-07	1.19-08	1.06-09	1.08-09
1.60 02	0.	0.	0.	0.	1.51-06	1.22-09	1.82-09	1.18-09
1.80 02	0.	0.	0.	4.76-14	4.10-06	2.14-09	2.35-09	4.11-09
	9.91-07	4.06-07	2.70-07	5.13-07	6.14-07	6.71-09	2.47-08	2.49-09
	1.47-07	1.81-07	1.35-07	2.13-07	1.13-07	2.51-09	1.87-08	7.10-10

PHI 45 TO 90 DEGREES

2.00 01	6.74-09	5.76-09	1.28-08	1.24-09	1.77-08	1.37-08	2.45-08	5.38-10
4.00 01	0.	0.	9.46-09	0.	8.25-10	1.48-09	1.79-07	1.07-09
6.00 01	0.	0.	2.93-09	0.	8.11-11	1.88-09	3.94-08	6.16-10
8.00 01	0.	0.	0.	2.10-09	3.16-13	2.06-09	3.66-08	9.82-09
9.00 01	0.	0.	0.	0.	6.78-09	1.01-09	2.13-10	1.74-08
1.00 02	0.	0.	0.	0.	7.28-09	1.47-09	1.00-09	4.81-10
1.20 02	0.	0.	0.	0.	9.48-10	5.59-09	6.24-10	2.21-09
1.40 02	0.	0.	0.	2.57-12	7.50-10	2.81-09	1.34-09	1.00-09
1.60 02	0.	0.	0.	0.	1.05-08	4.18-10	1.19-09	2.40-09
1.80 02	0.	0.	2.41-09	3.85-10	1.92-08	4.72-10	4.29-10	3.16-09
	4.06-10	3.47-10	3.34-09	7.83-10	7.16-09	5.36-09	5.60-08	8.28-09
	4.06-10	3.47-10	1.63-09	4.59-10	2.18-09	1.24-09	3.08-08	5.01-09

PHI 90 TO 135 DEGREES

2.00 01	1.27-07	0.	9.16-10	4.82-09	1.38-08	7.91-10	4.48-09	4.89-09
4.00 01	0.	0.	0.	2.70-10	0.	4.56-09	4.81-09	1.13-09
6.00 01	0.	0.	0.	1.02-09	2.76-10	3.15-09	1.18-08	6.29-09
8.00 01	0.	0.	0.	4.67-10	8.17-10	1.22-09	8.10-10	3.35-09
9.00 01	0.	0.	0.	0.	2.29-10	2.24-09	1.77-09	2.37-09
1.00 02	0.	0.	0.	0.	3.04-09	2.11-09	6.37-10	4.50-08
1.20 02	0.	0.	0.	0.	1.26-09	6.89-09	7.21-10	4.28-09
1.40 02	0.	0.	0.	3.41-13	2.66-09	1.05-08	1.40-09	9.05-10
1.60 02	0.	0.	0.	7.62-11	2.53-09	4.68-09	2.15-09	1.45-09
1.80 02	0.	0.	8.05-11	4.67-09	9.00-09	1.46-09	3.55-09	1.71-09
	7.67-09	0.	6.01-11	1.06-09	3.84-09	8.78-09	6.13-09	1.35-08
	7.23-09	0.	5.53-11	4.88-10	8.66-10	2.71-09	2.58-09	7.93-09

PHI 135 TO 180 DEGREES

2.00 01	0.	2.76-09	8.64-10	0.	1.05-09	2.99-09	2.04-08	7.12-10
4.00 01	0.	0.	0.	0.	5.44-10	1.52-10	4.68-09	3.43-10
6.00 01	0.	0.	0.	1.66-09	5.91-09	4.29-10	1.59-09	5.56-10
8.00 01	0.	0.	0.	0.	7.32-10	2.07-09	9.62-09	1.16-09
9.00 01	0.	0.	0.	0.	8.28-10	2.26-08	1.25-09	1.23-09
1.00 02	0.	0.	0.	0.	4.73-11	3.25-09	1.76-09	2.95-10
1.20 02	0.	0.	0.	9.82-11	3.09-09	4.77-09	4.40-10	1.25-09
1.40 02	0.	0.	6.03-12	7.51-12	2.71-09	7.38-09	3.65-09	3.27-10
1.60 02	0.	0.	1.85-12	7.09-13	3.72-09	1.07-09	1.28-09	1.58-09
1.80 02	0.	0.	6.70-12	2.44-11	9.07-09	8.73-10	3.11-09	1.15-09
	0.	1.66-10	5.44-11	4.76-10	5.04-09	9.25-09	7.65-09	1.73-09
	0.	1.66-10	5.21-11	4.41-10	1.65-09	3.83-09	2.59-09	3.89-10

075712721405 374676130305

AIR SCATTERING 1.35 02 ENERGY 6.00-01 ANGLE 1.00 DIST. 3.05 03
7.80 01 1.71 03 0. 0. 5.76 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.	2.20-06
0.	0.	0.	0.	0.	0.	0.	5.72-07
0.	0.	0.	0.	0.	0.	0.	1.93-07
0.	0.	0.	0.	0.	0.	0.	1.07-07
0.	0.	0.	0.	0.	0.	0.	5.90-08
0.	0.	0.	0.	0.	0.	0.	5.47-08
0.	0.	0.	0.	0.	0.	0.	7.27-08
0.	0.	0.	0.	0.	0.	0.	9.11-08
0.	0.	0.	0.	0.	0.	0.	1.18-07
0.	0.	0.	0.	0.	0.	0.	3.16-07
0.	0.	0.	0.	0.	0.	0.	
							4.26-07

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		
2.81-10	2.25-11	7.33-12	5.68-11	1.73-12	1.14-16	2.04-25	1.42-06	1.76-07
3.14-10	8.59-10	2.24-10	1.63-10	1.37-12	4.65-19	5.71-25	3.68-07	1.13-07
5.12-10	3.59-10	2.35-09	5.95-11	5.15-14	2.88-17	5.27-23	1.23-07	6.14-08
1.10-09	4.98-10	4.73-10	5.42-11	1.52-12	9.37-16	3.54-24	6.85-08	3.93-08
2.91-10	5.12-10	1.21-09	2.58-11	4.28-13	2.69-15	3.00-22	3.77-08	3.75-08
1.61-09	1.45-10	9.18-10	5.06-11	2.39-12	3.17-15	6.81-24	3.58-08	3.48-08
5.80-10	4.87-10	1.48-09	3.24-10	1.94-12	2.28-16	9.98-25	4.65-08	2.68-08
9.80-10	4.72-10	4.05-10	8.10-11	4.55-13	2.22-17	5.78-26	5.86-08	2.64-08
5.23-09	2.40-10	8.60-10	4.41-11	4.27-12	1.14-17	3.68-28	7.59-08	2.40-08
6.21-09	4.33-09	1.92-09	3.84-11	8.05-12	1.36-20	1.13-24	2.06-07	2.76-08
2.63-09	1.11-09	2.04-09	2.16-10	3.32-12	1.42-15	6.90-23		
9.17-10	3.03-10	1.05-09	9.22-11	1.31-12	7.78-16	4.83-23	2.74-07	3.35-08

PHI 45 TO 90 DEGREES

1.15-09	2.68-11	7.33-10	8.57-11	6.27-13	8.30-21	4.45-24	5.00-09	1.83-09
6.63-10	2.12-10	2.21-10	5.34-11	1.07-13	8.25-19	1.03-23	6.43-09	4.76-09
3.78-10	3.65-10	1.01-10	5.64-11	1.20-13	9.64-19	4.16-25	1.56-09	1.12-09
1.28-09	1.10-09	3.71-10	1.29-11	8.50-13	7.17-17	7.83-25	1.50-09	1.01-09
2.77-09	1.64-09	5.49-10	1.69-11	4.52-14	6.85-17	1.31-24	8.00-10	3.75-10
3.98-10	2.50-10	5.82-11	9.22-12	6.26-13	1.41-16	1.70-21	4.59-10	3.57-10
2.84-09	7.04-10	3.89-10	2.71-10	6.31-13	4.51-16	1.13-25	3.48-10	1.02-10
6.97-10	1.26-08	4.49-10	1.11-10	1.10-12	1.29-15	2.43-28	3.27-10	1.11-10
1.20-09	1.01-09	5.49-10	3.53-11	6.90-13	6.30-18	5.92-27	6.61-10	3.00-10
1.27-09	1.91-09	4.54-10	1.79-11	5.34-14	1.08-19	1.20-24	1.36-09	3.55-10
2.65-09	4.69-09	7.05-10	1.64-10	1.10-12	5.51-16	2.98-22		
6.01-10	2.77-09	1.44-10	8.21-11	3.72-13	2.84-16	2.83-22	2.94-09	1.03-09

PHI 90 TO 135 DEGREES

5.76-10	1.04-10	3.20-10	1.35-11	4.06-13	8.37-21	9.28-27	2.04-08	1.80-08
9.04-10	8.19-10	3.34-10	1.21-10	4.27-14	4.67-19	9.59-29	3.47-10	9.98-11
2.88-09	1.35-09	5.74-10	7.49-10	1.87-13	6.45-18	3.07-27	7.22-10	4.18-10
9.01-10	1.67-09	2.63-10	5.28-11	2.10-13	6.08-17	1.17-26	2.30-10	6.47-11
2.38-09	5.52-10	4.27-10	8.28-11	8.22-13	9.50-19	2.33-25	2.37-10	6.73-11
4.45-09	6.27-10	1.46-10	2.03-11	6.28-14	1.33-18	1.73-23	1.23-09	8.98-10
8.09-10	2.17-10	2.58-10	1.11-11	4.75-13	5.61-17	3.45-24	3.98-10	1.06-10
1.27-09	3.77-10	5.73-10	3.50-11	4.54-13	6.27-16	2.42-22	5.43-10	2.69-10
2.57-09	6.85-10	5.18-10	1.95-11	1.07-12	6.79-16	2.22-25	4.28-10	1.27-10
5.78-10	3.17-10	1.19-10	2.17-11	3.18-14	1.66-16	5.52-21	8.92-10	3.33-10
3.52-09	1.56-09	7.49-10	2.74-10	7.67-13	3.35-16	4.01-22		
9.83-10	4.62-10	1.49-10	1.83-10	2.50-13	1.88-16	3.29-22	2.21-09	1.11-09

PHI 135 TO 180 DEGREES

2.23-10	9.05-11	2.65-10	2.47-11	4.24-14	5.42-23	2.04-34	1.14-09	4.23-10
2.87-10	1.93-09	6.09-11	7.04-11	4.81-13	5.66-17	5.17-27	2.05-10	6.44-11
1.08-09	3.24-10	5.22-11	4.12-11	1.30-13	3.61-17	3.57-26	4.76-10	2.65-10
5.12-09	1.32-09	2.01-10	3.83-11	1.80-13	3.66-17	5.29-25	5.29-10	3.11-10
3.21-10	8.34-10	1.24-10	7.27-12	1.83-13	3.64-17	1.26-23	7.99-10	6.21-10
3.68-10	7.39-10	1.05-10	1.64-11	1.18-13	6.35-19	3.34-25	1.74-10	5.56-11
4.73-10	4.99-10	1.86-10	1.10-10	9.65-13	3.12-16	1.60-22	3.58-10	1.47-10
1.35-09	8.49-10	2.45-10	2.14-11	3.93-13	4.57-16	2.45-23	5.12-10	1.48-10
1.33-09	2.16-09	1.33-09	1.57-11	2.29-13	5.47-16	2.74-24	3.50-10	8.47-11
1.27-09	1.66-10	2.89-10	7.12-11	1.07-11	1.32-18	5.12-27	6.28-10	1.74-10
2.96-09	1.91-09	5.20-10	8.99-11	1.34-12	3.56-16	6.15-23		
1.52-09	5.73-10	1.55-10	2.31-11	6.13-13	1.83-16	5.24-23	9.24-10	1.79-10
							4.39-07	5.31-08

AIR SCATTERING 1.36 02 ENERGY 6.00-01 ANGLE 1.50 01 DIST. 3.05 03
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	7.84-07	0.	0.	0.	0.	0.	0.	0.
4.00 01	8.58-08	1.11-07	0.	0.	0.	0.	0.	0.
6.00 01	0.	6.01-08	3.09-08	0.	0.	0.	0.	0.
8.00 01	0.	0.	5.02-08	0.	0.	0.	0.	0.
9.00 01	0.	0.	2.62-08	2.88-08	0.	0.	0.	0.
1.00 02	0.	0.	0.	7.83-08	0.	0.	0.	0.
1.20 02	0.	0.	0.	7.49-08	1.08-09	0.	0.	0.
1.40 02	0.	0.	0.	0.	8.39-08	0.	0.	0.
1.60 02	0.	0.	0.	0.	7.83-08	0.	0.	0.
1.80 02	0.	0.	0.	0.	3.20-09	0.	0.	0.
	6.22-08	3.53-08	2.92-08	4.30-08	3.65-08	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	5.10-07	0.	3.34-09	1.23-09	2.51-09	1.53-09	4.90-09	8.58-10
4.00 01	6.30-08	9.53-08	3.36-09	3.52-09	6.36-10	5.88-09	7.88-09	8.50-10
6.00 01	0.	3.83-08	2.13-08	0.	5.32-09	3.54-09	5.64-09	6.14-10
8.00 01	0.	0.	3.52-08	4.37-09	6.43-09	3.03-09	2.30-09	1.23-09
9.00 01	0.	0.	1.67-08	2.28-08	6.61-11	4.93-09	9.60-10	6.90-10
1.00 02	0.	0.	0.	5.34-08	1.24-10	3.21-09	1.94-09	1.59-09
1.20 02	0.	0.	0.	5.43-08	3.76-09	4.73-09	2.72-09	9.77-10
1.40 02	0.	0.	0.	0.	6.42-08	3.14-09	1.09-09	1.88-09
1.60 02	0.	0.	2.45-11	2.65-09	6.45-08	8.12-10	9.58-10	3.43-09
1.80 02	0.	0.	3.59-12	1.45-10	1.23-08	1.33-09	4.91-10	2.50-08
	4.17-08	2.67-08	2.08-08	3.35-08	3.41-08	7.06-09	5.79-09	4.08-09
	2.77-09	4.68-09	2.57-09	3.97-09	2.43-09	1.26-09	1.03-09	1.67-09

PHI 45 TO 90 DEGREES

2.00 01	7.87-08	0.	0.	0.	1.86-09	3.06-09	3.26-09	2.91-10
4.00 01	0.	0.	1.-5-09	0.	5.51-10	5.75-09	9.27-09	2.41-09
6.00 01	0.	0.	0.	0.	4.64-11	5.43-10	2.26-09	5.53-10
8.00 01	0.	0.	0.	0.	4.16-10	3.80-09	1.43-09	7.10-10
9.00 01	0.	0.	0.	0.	3.45-09	8.87-10	1.20-09	4.07-09
1.00 02	0.	0.	0.	0.	2.15-10	1.11-09	6.66-10	3.91-10
1.20 02	0.	0.	0.	0.	5.20-10	2.56-09	1.10-09	1.13-09
1.40 02	0.	0.	0.	1.31-11	1.13-09	4.22-09	1.25-09	9.65-10
1.60 02	0.	0.	0.	0.	3.19-09	6.24-10	7.10-10	5.87-10
1.80 02	0.	0.	3.98-11	1.16-11	5.07-09	1.63-09	9.89-10	6.77-10
	4.75-09	0.	2.36-10	4.19-12	2.32-09	5.08-09	4.07-09	2.36-09
	4.75-09	0.	2.34-10	3.52-12	5.62-10	1.21-09	8.10-10	5.97-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	2.75-09	0.	3.05-10	3.35-10	4.31-09	5.84-10
4.00 01	0.	0.	0.	0.	2.47-10	2.04-08	3.09-09	7.33-09
6.00 01	0.	0.	0.	0.	8.54-10	8.48-10	9.22-10	1.32-09
8.00 01	0.	0.	0.	5.42-09	4.35-10	5.80-09	4.88-09	9.74-10
9.00 01	0.	0.	0.	0.	0.	4.56-10	1.73-09	2.42-09
1.00 02	0.	0.	0.	0.	1.24-10	3.62-10	2.89-09	7.49-10
1.20 02	0.	0.	0.	0.	8.00-10	3.64-09	6.98-10	3.91-10
1.40 02	0.	0.	2.05-10	1.40-13	1.09-09	8.96-09	6.04-10	2.98-09
1.60 02	0.	0.	1.02-13	5.27-11	2.00-09	7.43-10	1.77-10	5.15-10
1.80 02	0.	0.	0.	0.	1.22-09	2.57-10	2.03-09	3.85-09
	0.	0.	2.21-10	1.78-09	1.42-09	9.54-09	3.98-09	3.77-09
	0.	0.	1.36-10	1.75-09	3.96-10	3.51-09	1.26-09	1.24-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	1.33-09	8.64-10	3.11-09	6.84-09	7.25-11
4.00 01	0.	0.	0.	3.94-10	4.26-10	3.40-09	2.24-09	1.15-09
6.00 01	0.	0.	1.93-09	0.	1.12-09	5.62-10	1.51-09	2.24-10
8.00 01	0.	0.	0.	2.78-12	1.47-09	2.24-10	8.95-10	1.62-09
9.00 01	0.	0.	0.	0.	9.32-12	2.03-10	6.46-09	1.46-10
1.00 02	0.	0.	0.	2.97-10	3.45-11	6.47-10	2.79-09	9.36-10
1.20 02	0.	0.	0.	0.	2.78-09	2.95-10	2.65-09	5.79-10
1.40 02	0.	0.	0.	5.12-11	2.09-10	5.63-09	5.35-10	7.39-10
1.60 02	0.	0.	0.	1.06-10	1.64-09	2.41-10	6.16-10	2.43-09
1.80 02	0.	0.	2.19-13	1.07-12	2.52-09	3.56-10	1.15-10	4.98-08
	0.	0.	5.13-10	2.33-10	2.31-09	2.81-09	4.22-09	4.79-09
	0.	0.	5.13-10	1.05-10	1.04-09	9.40-10	1.21-09	3.01-09

374676130305 360722467155

AIR SCATTERING 1.36 02 ENERGY 6.00-01 ANGLE 1.50 01 DIST. 3.05 03
7.30 01 1.71 03 0. 0. 5.71 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.	1.18-07
0.	0.	0.	0.	0.	0.	0.	2.40-08
0.	0.	0.	0.	0.	0.	0.	9.10-09
0.	0.	0.	0.	0.	0.	0.	5.02-09
0.	0.	0.	0.	0.	0.	0.	4.06-09
0.	0.	0.	0.	0.	0.	0.	3.92-09
0.	0.	0.	0.	0.	0.	0.	3.80-09
0.	0.	0.	0.	0.	0.	0.	4.20-09
0.	0.	0.	0.	0.	0.	0.	3.91-09
0.	0.	0.	0.	0.	0.	0.	1.60-10
0.	0.	0.	0.	0.	0.	0.	
							1.98-08

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		
3.09-09	2.83-10	5.20-09	1.63-11	1.29-13	2.19-16	2.00-27	7.73-08	4.71-09
6.87-10	1.76-09	1.87-10	1.60-11	1.47-11	2.57-14	4.01-25	2.00-08	3.19-09
1.16-08	4.62-10	8.28-11	8.74-11	1.27-13	3.37-18	6.83-26	6.75-09	8.98-10
1.03-09	1.17-09	1.35-09	1.10-10	1.95-13	2.26-17	1.19-23	4.29-09	7.07-10
2.40-09	1.12-09	1.35-09	1.02-10	5.13-13	1.14-17	8.78-28	3.08-09	6.38-10
1.63-10	1.63-09	2.38-10	4.14-12	6.07-14	1.20-16	1.86-27	2.89-09	5.75-10
7.81-10	5.17-10	5.77-10	2.39-11	5.78-14	1.37-16	3.31-24	3.17-09	4.46-10
5.46-10	5.60-10	2.84-10	3.27-11	2.98-14	1.06-15	3.54-22	3.39-09	3.28-10
4.55-10	6.25-10	1.20-10	2.40-11	1.69-13	9.99-18	1.61-20	3.50-09	2.36-10
1.06-09	7.27-10	7.55-11	2.10-11	2.64-14	2.67-18	7.34-28	1.21-09	4.92-10
4.70-09	1.78-09	1.38-09	1.03-10	2.82-12	4.83-15	2.89-21		
3.02-09	5.67-10	6.62-10	3.96-11	2.55-12	4.40-15	2.79-21	1.50-08	7.21-10

PHI 45 TO 90 DEGREES

1.10-09	8.57-09	5.85-11	1.82-09	5.59-14	1.80-19	8.42-33	1.22-08	1.18-08
6.88-10	5.07-09	9.10-09	1.75-11	7.00-12	7.57-15	3.37-26	8.16-10	2.31-10
4.99-10	7.68-10	1.37-10	1.75-10	4.94-11	1.08-12	2.66-25	1.18-10	3.97-11
1.25-09	2.05-10	2.13-10	2.05-11	4.29-13	3.17-18	1.53-26	2.21-10	6.86-11
2.93-10	2.29-10	1.42-10	2.57-11	4.36-13	1.56-17	9.82-26	3.26-10	1.54-10
3.64-09	1.20-10	9.05-10	7.86-11	5.23-14	1.82-17	8.24-24	1.56-10	3.65-11
7.00-10	4.17-10	2.73-10	9.85-11	1.09-12	1.05-17	1.28-20	1.80-10	3.33-11
9.33-10	6.80-10	2.76-10	1.57-11	6.43-13	2.02-17	1.60-27	2.69-10	8.53-11
8.70-10	3.12-09	2.96-10	1.63-11	3.62-12	1.32-19	1.16-25	2.63-10	4.66-11
1.62-09	1.90-10	4.35-11	2.13-11	4.69-14	2.09-18	1.22-28	3.85-10	1.41-10
2.13-09	2.60-09	2.09-09	2.25-10	1.57-11	2.89-13	4.17-21		
3.93-10	1.08-09	1.55-09	1.20-10	1.38-11	2.87-13	3.50-21	1.27-09	7.16-10

PHI 90 TO 135 DEGREES

1.42-09	5.54-10	3.96-11	5.98-11	7.05-13	5.79-23	0.	4.76-10	2.16-10
4.25-10	2.18-10	4.19-10	1.40-11	3.66-13	3.59-17	4.95-24	8.79-10	4.94-10
3.20-09	3.39-09	3.56-10	9.92-11	5.23-12	1.94-15	1.88-25	2.24-10	8.56-11
9.06-10	1.05-09	2.29-10	2.57-11	2.41-13	1.14-17	1.25-24	6.63-10	3.19-10
7.56-09	2.66-10	4.21-11	3.14-11	1.54-12	1.85-18	4.20-27	2.68-10	1.23-10
4.55-10	3.76-09	3.35-10	4.57-12	1.52-13	4.89-17	2.69-25	1.69-10	8.57-11
7.79-10	3.02-10	1.02-09	7.27-11	2.47-13	6.16-17	1.59-26	2.07-10	7.26-11
1.22-09	8.78-10	2.68-10	1.33-10	7.66-13	1.39-16	1.14-24	4.58-10	1.70-10
3.34-09	3.04-10	8.70-11	2.21-10	9.23-14	7.09-16	8.66-27	2.13-10	5.50-11
7.21-10	1.17-10	4.32-11	2.03-12	1.42-14	7.70-18	2.24-31	2.23-10	8.57-11
3.90-09	2.41-09	7.33-10	1.45-10	2.17-12	7.16-16	1.68-24		
1.33-09	7.22-10	2.76-10	7.92-11	8.93-13	5.34-16	9.80-25	7.73-10	1.61-10

PHI 135 TO 180 DEGREES

2.26-10	2.68-09	7.15-11	5.52-11	4.18-13	1.52-17	6.03-24	4.42-10	1.33-10
5.05-09	8.94-10	3.30-10	2.79-11	2.14-14	1.52-17	1.35-24	3.47-10	1.08-10
3.22-10	5.17-10	2.91-10	2.46-11	1.81-13	2.86-17	1.71-24	3.30-10	2.01-10
2.57-10	4.89-10	6.46-11	3.32-11	7.27-13	3.97-15	1.23-23	1.51-10	7.61-11
1.10-09	4.03-10	8.94-11	5.02-11	1.02-12	2.96-17	4.00-25	2.31-10	1.58-10
5.48-10	7.62-10	1.68-10	1.92-11	5.81-13	9.32-17	4.81-27	1.59-10	5.89-11
2.19-09	7.88-10	4.02-10	4.78-11	2.94-13	6.80-18	3.79-24	2.95-10	1.48-10
9.71-10	1.96-10	1.81-10	2.88-11	8.68-13	2.02-17	5.93-25	2.36-10	9.61-11
1.39-09	3.62-10	8.35-11	1.16-11	1.12-12	4.69-19	1.21-25	1.94-10	6.09-11
2.25-10	6.80-11	1.67-10	3.54-10	8.18-13	2.97-17	3.03-26	1.15-09	9.88-10
2.57-09	1.19-09	4.09-10	8.42-11	1.16-12	1.34-15	6.57-24		
8.68-10	2.87-10	9.07-11	2.60-11	4.24-13	9.21-16	3.64-24	5.53-10	1.11-10
							2.76-08	1.68-09

AIR SCATTERING 1.37 02 ENERGY 6.00-01 ANGLE 3.00 01 DIST. 3.05 03
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	2.11-07	9.46-08	0.	0.	0.	0.	0.	0.
4.00 01	0.	6.93-08	9.63-09	0.	0.	0.	0.	0.
6.00 01	0.	0.	3.25-08	0.	0.	0.	0.	0.
8.00 01	0.	0.	1.18-08	1.73-08	0.	0.	0.	0.
9.00 01	0.	0.	0.	3.43-08	0.	0.	0.	0.
1.00 02	0.	0.	0.	3.22-08	0.	0.	0.	0.
1.20 02	0.	0.	0.	7.35-09	2.17-08	0.	0.	0.
1.40 02	0.	0.	0.	0.	1.99-08	0.	0.	0.
1.60 02	0.	0.	0.	0.	1.31-09	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	1.27-08	1.77-08	1.42-08	1.96-08	1.26-08	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	1.43-07	6.40-08	3.47-09	0.	2.60-09	3.48-09	6.51-09	1.04-09
4.00 01	0.	4.86-08	6.75-09	7.19-09	1.07-09	3.36-09	6.26-09	4.04-09
6.00 01	0.	0.	2.42-08	9.19-10	1.81-09	6.04-09	2.54-09	2.81-09
8.00 01	0.	0.	1.15-08	1.14-08	2.11-09	4.36-09	2.68-09	3.27-09
9.00 01	0.	0.	0.	2.35-08	1.97-09	2.07-09	2.64-09	1.48-09
1.00 02	0.	0.	0.	2.40-08	2.92-09	2.89-09	2.49-09	3.42-09
1.20 02	0.	0.	0.	5.24-09	2.23-08	6.77-09	1.38-09	2.23-09
1.40 02	0.	0.	0.	1.39-09	2.05-08	9.13-10	2.10-09	2.57-09
1.60 02	0.	0.	3.85-12	3.95-10	4.26-09	9.00-10	1.70-09	1.03-09
1.80 02	0.	0.	0.	3.98-10	1.89-09	1.32-10	8.30-10	2.34-10
	8.60-09	1.23-08	1.16-08	1.57-08	1.60-08	7.30-09	5.28-09	5.03-09
	7.25-10	1.08-09	1.34-09	1.59-09	1.06-09	1.22-09	7.70-10	9.54-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	3.50-09	3.97-09	2.86-09	4.68-10
4.00 01	0.	0.	9.28-10	9.48-10	8.90-10	1.12-09	2.66-09	2.06-10
6.00 01	0.	0.	0.	2.91-09	3.47-10	5.54-09	2.04-09	6.12-10
8.00 01	0.	0.	0.	1.93-10	1.87-09	2.02-09	4.70-10	1.42-09
9.00 01	0.	0.	0.	0.	1.67-10	1.70-09	1.00-09	1.25-09
1.00 02	0.	0.	0.	1.14-12	3.17-09	2.36-09	1.82-10	1.26-09
1.20 02	0.	0.	5.92-13	0.	1.99-09	2.16-09	1.61-09	1.19-09
1.40 02	0.	0.	2.22-11	4.69-11	2.95-09	2.66-09	1.03-09	2.22-09
1.60 02	0.	0.	0.	2.23-10	6.54-09	1.57-09	3.15-09	2.69-09
1.80 02	0.	0.	0.	1.42-11	2.85-09	8.62-10	1.12-09	1.16-09
	0.	0.	1.67-10	1.05-09	4.39-09	5.01-09	2.95-09	2.64-09
	0.	0.	1.61-10	7.85-10	9.92-10	9.84-10	5.17-10	5.68-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	3.06-09	0.	5.04-09	1.30-09	2.02-09	2.87-10
4.00 01	0.	0.	0.	0.	5.02-10	7.12-10	9.96-10	5.34-10
6.00 01	0.	0.	0.	0.	2.43-10	3.80-10	1.66-09	1.84-10
8.00 01	0.	0.	0.	0.	1.34-10	3.81-10	1.64-09	8.57-10
9.00 01	0.	0.	0.	0.	4.07-11	2.89-09	8.70-10	9.62-09
1.00 02	0.	0.	0.	0.	7.77-10	8.63-10	4.15-09	5.03-10
1.20 02	0.	0.	0.	0.	2.25-10	7.68-10	5.62-10	7.65-10
1.40 02	0.	0.	5.79-12	4.34-10	1.24-10	1.13-09	4.49-10	5.85-10
1.60 02	0.	0.	0.	1.57-18	3.38-09	1.62-09	1.05-09	3.62-09
1.80 02	0.	0.	4.04-12	2.70-11	3.60-10	2.80-10	5.06-09	8.87-09
	0.	0.	1.86-10	1.17-10	1.36-09	1.93-09	2.93-09	3.77-09
	0.	0.	1.84-10	1.15-10	6.42-10	5.26-10	7.13-10	1.37-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.19-08	2.84-09	8.82-09	8.28-10
6.00 01	0.	0.	0.	1.74-09	3.06-09	5.53-10	1.89-09	7.82-10
8.00 01	0.	0.	0.	0.	1.36-11	9.49-10	1.29-09	2.24-09
9.00 01	0.	0.	0.	0.	1.47-10	7.66-10	7.52-10	2.41-09
1.00 02	0.	0.	0.	0.	0.	4.53-10	2.26-09	2.73-10
1.20 02	0.	0.	0.	0.	6.13-10	5.25-10	1.52-09	7.26-10
1.40 02	0.	0.	0.	0.	2.69-10	1.21-10	4.38-10	7.59-10
1.60 02	0.	0.	0.	2.57-11	9.42-11	2.42-10	2.36-08	1.26-09
1.80 02	0.	0.	0.	0.	3.44-10	1.07-09	1.06-09	2.43-09
	0.	0.	0.	4.67-10	1.87-09	1.78-09	6.56-09	2.34-09
	0.	0.	0.	4.62-10	9.92-10	7.28-10	3.96-09	8.05-10

237460241645 3465662011 15

AIR SCATTERING 1.37 02 ENERGY 6.00-01 ANGLE 3.00 01 DIST. 3.05 03
6.50 01 1.72 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.	4.11-08
0.	0.	0.	0.	0.	0.	0.	7.89-09
0.	0.	0.	0.	0.	0.	0.	3.25-09
0.	0.	0.	0.	0.	0.	0.	2.05-09
0.	0.	0.	0.	0.	0.	0.	1.71-09
0.	0.	0.	0.	0.	0.	0.	1.61-09
0.	0.	0.	0.	0.	0.	0.	1.45-09
0.	0.	0.	0.	0.	0.	0.	9.94-10
0.	0.	0.	0.	0.	0.	0.	6.57-11
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	6.71-09

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		
1.39-09	3.25-10	2.38-11	1.44-12	2.73-14	3.51-18	9.42-25	2.86-08	2.06-09
1.21-09	1.42-09	5.33-10	5.26-11	2.72-13	1.40-17	2.01-24	6.36-09	6.75-10
7.70-10	1.90-09	5.16-10	5.53-11	2.79-13	4.20-14	4.97-25	2.91-09	3.97-10
1.07-09	9.30-10	5.75-10	4.22-11	1.77-13	1.76-17	1.71-24	2.14-09	2.64-10
2.47-09	1.17-09	1.25-09	4.57-11	4.67-13	6.70-14	6.51-21	1.52-09	2.04-10
1.36-09	6.56-10	1.16-10	1.66-11	4.58-14	8.97-16	6.35-24	1.61-09	2.05-10
1.41-09	5.69-09	3.23-10	1.59-10	9.90-14	4.30-17	2.80-21	1.76-09	2.19-10
1.73-09	1.11-09	3.20-10	5.37-11	1.37-13	5.95-16	1.03-21	1.29-09	1.04-10
2.40-09	1.21-09	3.33-10	2.23-11	6.22-14	2.60-17	1.61-29	3.95-10	5.25-11
4.35-10	4.82-10	5.51-10	9.54-13	1.37-14	1.11-15	4.26-29	1.63-10	5.37-11
2.87-09	3.77-09	9.25-10	1.19-10	3.50-13	2.32-14	2.32-21		
4.91-10	1.71-09	2.27-10	3.96-11	1.00-13	1.61-14	1.47-21	5.84-09	2.35-10

PHI 45 TO 90 DEGREES

1.36-10	4.59-10	1.57-10	3.89-12	9.90-13	1.65-18	1.61-24	3.96-10	1.44-10
7.61-10	3.02-10	1.26-09	2.81-11	3.38-11	7.84-18	5.45-26	3.34-10	1.09-10
7.04-10	3.75-10	1.15-09	4.94-11	2.01-10	1.19-17	1.26-25	4.33-10	2.24-10
5.64-10	3.86-10	2.71-10	1.00-09	1.06-12	3.83-17	6.13-24	2.31-10	6.25-11
1.52-09	3.39-10	1.39-09	7.08-11	6.42-12	5.61-17	6.37-24	1.62-10	3.50-11
5.02-10	9.62-10	2.17-10	1.47-10	1.30-11	4.29-18	2.61-22	2.83-10	1.18-10
1.61-09	2.62-10	8.24-10	9.93-11	1.21-11	7.96-16	4.65-22	2.80-10	8.09-11
1.89-09	7.88-10	1.16-09	1.25-11	1.27-13	3.08-17	4.91-25	3.65-10	1.17-10
1.17-09	3.20-10	5.74-10	4.42-11	4.33-13	8.55-19	1.46-25	5.66-10	2.04-10
3.32-09	1.91-10	6.95-10	1.94-10	7.89-15	6.81-17	1.77-26	3.02-10	9.54-11
2.29-09	8.82-10	1.62-09	4.38-10	6.73-11	3.00-16	2.00-22		
3.88-10	1.60-10	4.47-10	3.25-10	5.96-11	2.29-16	1.89-22	6.55-10	9.99-11

PHI 90 TO 135 DEGREES

3.47-10	1.28-10	4.73-11	8.52-12	5.20-15	3.80-19	3.97-32	6.72-10	3.83-10
1.51-09	3.75-09	1.66-10	9.63-12	9.86-14	9.38-19	3.46-26	1.56-10	5.05-11
3.69-10	6.95-10	1.09-10	2.89-11	1.14-12	1.23-13	3.39-28	9.25-11	2.50-11
3.82-10	3.89-09	1.03-10	2.95-11	4.99-12	3.92-18	1.85-24	1.32-10	4.33-11
4.87-10	6.01-10	3.40-10	1.34-12	1.18-14	6.86-16	7.16-28	3.26-10	1.59-10
4.13-09	1.59-09	2.49-10	5.73-11	6.47-13	1.18-17	3.58-23	3.01-10	1.10-10
6.09-10	1.01-09	7.22-10	1.37-10	2.60-13	3.89-16	4.25-25	9.69-11	2.36-11
1.44-09	1.91-09	2.17-10	8.67-11	5.24-14	4.79-18	7.36-26	1.38-10	4.00-11
2.38-09	6.16-10	1.68-10	3.67-11	3.02-13	1.79-17	1.25-28	3.83-10	1.74-10
4.05-10	3.30-09	1.04-10	3.63-11	3.21-13	3.05-19	2.14-31	4.00-10	2.02-10
4.38-09	3.64-09	5.25-10	1.06-10	2.23-12	3.30-14	6.98-24		
6.30-10	1.45-09	1.54-10	3.89-11	1.87-12	3.27-14	6.23-24	4.03-10	6.09-11

PHI 135 TO 180 DEGREES

1.22-09	4.73-10	5.65-11	2.96-13	3.10-14	1.50-17	2.57-31	8.06-10	5.68-10
2.95-09	4.01-10	3.50-10	3.59-11	2.96-13	6.32-18	1.35-27	2.15-10	1.16-10
1.67-08	5.05-09	1.73-10	3.24-11	9.84-14	1.48-17	8.78-26	7.15-10	3.65-10
2.20-09	6.79-10	1.47-10	2.87-11	1.86-12	1.80-18	1.56-27	1.65-10	5.29-11
3.21-10	8.42-10	2.25-10	3.79-11	5.49-13	1.01-15	3.11-24	1.18-10	4.59-11
1.52-09	9.10-10	3.00-10	8.26-12	6.49-13	9.04-16	4.50-21	1.29-10	4.68-11
5.43-10	7.59-10	7.05-10	3.82-11	1.59-12	3.82-16	4.06-24	1.32-10	4.77-11
3.93-09	7.45-10	2.11-09	2.34-10	8.46-13	1.92-15	1.87-24	1.54-10	6.74-11
3.16-09	6.96-10	1.44-09	8.67-11	7.91-13	3.69-15	4.98-26	8.32-10	6.80-10
9.21-10	2.57-10	1.06-10	2.80-11	4.24-13	5.29-19	1.07-32	1.44-10	4.26-11
7.87-09	2.54-09	1.30-09	1.24-10	1.80-12	1.61-15	7.84-22		
3.92-09	1.33-09	7.03-10	5.63-11	7.92-13	8.65-16	7.81-22	6.10-10	1.69-10
							1.18-08	5.43-10

AIR SCATTERING 1.38 02 ENERGY 6.00-01 ANGLE 6.00 01 DIST. 3.05 03
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.	4.08-08	6.08-08	0.	0.	0.	0.	0.
4.00 01	0.	0.	2.38-08	0.	0.	0.	0.	0.
6.00 01	0.	0.	8.64-10	2.29-08	0.	0.	0.	0.
8.00 01	0.	0.	0.	1.17-08	3.57-09	0.	0.	0.
9.00 01	0.	0.	0.	0.	1.04-08	0.	0.	0.
1.00 02	0.	0.	0.	0.	6.60-09	0.	0.	0.
1.20 02	0.	0.	0.	0.	1.34-09	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.	2.46-09	7.98-09	9.91-09	4.55-09	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.	3.38-08	4.30-08	2.78-09	1.90-09	6.25-09	1.01-09	3.92-09
4.00 01	0.	1.22-09	1.68-08	2.27-09	2.49-09	3.28-09	2.72-09	2.29-09
6.00 01	0.	0.	1.34-09	1.50-08	2.01-09	2.49-09	1.11-09	1.00-09
8.00 01	0.	0.	7.88-11	9.22-09	5.74-09	2.44-09	2.06-09	1.74-09
9.00 01	0.	0.	0.	2.59-09	1.14-08	6.80-10	3.95-09	7.47-10
1.00 02	0.	0.	0.	3.73-10	7.84-09	1.32-09	1.75-09	2.16-09
1.20 02	0.	0.	0.	5.39-11	4.77-09	1.13-09	1.20-09	1.42-09
1.40 02	0.	0.	0.	6.05-12	1.20-09	3.05-09	7.63-10	1.21-09
1.60 02	0.	0.	0.	0.	4.61-10	3.49-10	9.51-10	1.14-09
1.80 02	0.	0.	0.	0.	3.62-11	8.96-10	1.67-10	1.89-10
	0.	2.25-09	5.88-09	8.10-09	8.25-09	4.05-09	3.26-09	2.97-09
	0.	3.53-10	4.70-10	5.80-10	4.54-10	5.29-10	5.44-10	5.22-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	1.07-09	1.55-09	1.63-09	4.44-09	7.09-10
4.00 01	0.	0.	0.	2.41-10	7.23-10	2.84-09	1.14-09	4.61-10
6.00 01	0.	0.	0.	0.	2.20-10	1.99-09	1.35-09	9.84-10
8.00 01	0.	0.	0.	0.	1.91-10	2.16-09	8.23-10	5.88-10
9.00 01	0.	0.	0.	0.	8.77-10	9.47-10	7.73-10	1.08-09
1.00 02	0.	0.	0.	2.10-10	2.96-10	1.80-09	1.45-09	8.84-10
1.20 02	0.	0.	0.	1.09-11	2.86-10	6.89-10	7.34-10	7.38-10
1.40 02	0.	0.	2.57-11	0.	1.91-10	1.25-09	9.62-10	2.64-10
1.60 02	0.	0.	4.44-12	9.23-11	2.97-10	1.05-09	3.41-10	1.25-09
1.80 02	0.	0.	0.	0.	8.51-13	5.65-11	8.49-10	2.71-09
	0.	0.	7.62-12	1.62-10	7.05-10	3.05-09	2.00-09	1.61-09
	0.	0.	6.40-12	8.64-11	1.63-10	4.33-10	3.57-10	2.80-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	7.02-10	1.33-09	8.78-10	1.62-09	3.72-10
4.00 01	0.	0.	0.	0.	0.	5.09-09	5.96-10	8.87-10
6.00 01	0.	0.	0.	0.	0.	4.28-09	7.76-10	3.24-10
8.00 01	0.	0.	0.	3.18-11	7.17-11	4.53-10	6.83-10	7.52-10
9.00 01	0.	0.	6.02-11	0.	0.	3.22-10	3.03-09	4.40-10
1.00 02	0.	0.	0.	0.	2.32-10	4.80-10	5.13-10	2.10-09
1.20 02	0.	0.	0.	6.00-12	1.44-10	2.57-10	5.10-10	1.20-09
1.40 02	0.	0.	0.	0.	1.88-11	6.81-10	3.61-10	5.17-10
1.60 02	0.	0.	0.	2.40-12	2.13-13	5.44-10	1.57-10	5.69-11
1.80 02	0.	0.	0.	0.	0.	2.34-09	6.08-11	3.52-10
	0.	0.	1.05-11	5.51-11	1.96-10	2.86-09	1.54-09	1.51-09
	0.	0.	1.05-11	4.36-11	8.30-11	1.19-09	3.91-10	4.00-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.54-09	1.76-09	9.32-10
4.00 01	0.	0.	0.	0.	0.	2.17-09	8.75-10	1.93-09
6.00 01	0.	0.	0.	0.	1.09-10	2.22-09	9.13-10	9.34-11
8.00 01	0.	0.	0.	0.	0.	1.87-10	1.63-09	1.91-09
9.00 01	0.	0.	0.	0.	0.	1.15-10	9.19-10	4.36-09
1.00 02	0.	0.	0.	0.	0.	2.07-10	3.96-10	5.16-10
1.20 02	0.	0.	0.	0.	0.	6.16-11	3.61-09	3.82-10
1.40 02	0.	0.	0.	0.	0.	6.78-09	7.58-10	3.96-10
1.60 02	0.	0.	0.	0.	4.83-11	4.31-11	4.23-10	3.30-10
1.80 02	0.	0.	0.	0.	8.66-12	7.93-11	7.42-12	6.47-10
	0.	0.	0.	0.	3.80-11	3.01-09	2.72-09	2.21-09
	0.	0.	0.	0.	2.98-11	1.93-09	7.93-10	7.49-10

375365460245 144014676345

AIR SCATTERING 1.38 02 ENERGY 6.00-01 ANGLE 6.00 01 DIST. 3.05 03
5.30 01 1.73 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.	1.02-08
0.	0.	0.	0.	0.	0.	0.	2.38-09
0.	0.	0.	0.	0.	0.	0.	1.21-09
0.	0.	0.	0.	0.	0.	0.	7.65-10
0.	0.	0.	0.	0.	0.	0.	5.19-10
0.	0.	0.	0.	0.	0.	0.	3.30-10
0.	0.	0.	0.	0.	0.	0.	6.71-11
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.	
							1.77-09

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		
4.75-10	2.28-10	8.67-11	3.64-13	5.80-13	1.87-17	4.80-28	8.22-09	8.47-10
1.49-09	8.08-10	2.40-10	7.45-12	8.53-14	1.19-18	2.49-30	2.30-09	2.27-10
1.43-09	3.01-10	1.47-10	5.34-11	6.58-13	6.98-18	4.71-26	1.15-09	9.77-11
5.15-10	5.20-09	1.90-10	2.23-11	4.40-12	9.17-18	3.33-25	9.90-10	8.78-11
1.05-09	7.58-10	1.34-09	1.45-10	6.48-14	7.58-17	6.42-25	8.95-10	1.13-10
6.91-10	7.76-10	3.81-10	8.32-12	3.35-14	1.30-16	4.80-23	5.71-10	5.75-11
1.11-09	7.23-10	2.27-10	3.44-10	9.06-13	5.35-17	6.52-24	3.74-10	4.33-11
4.86-10	9.57-10	4.19-10	3.06-11	9.44-13	1.09-15	1.94-24	2.22-10	5.33-11
7.34-10	6.14-10	7.03-10	6.06-10	1.25-13	4.72-17	3.35-25	1.17-10	2.53-11
1.22-09	8.48-10	6.36-11	5.16-12	4.17-15	3.28-19	1.21-29	7.10-11	2.97-11
1.83-09	2.85-09	7.54-10	2.75-10	2.25-12	3.58-16	1.13-23		
3.36-10	1.57-09	2.70-10	2.05-10	1.60-12	2.30-16	8.59-24	1.98-09	8.36-11

PHI 45 TO 90 DEGREES

2.98-10	1.49-09	3.04-11	1.56-11	2.49-12	6.95-19	1.63-29	3.49-10	1.11-10
6.22-10	2.04-10	2.94-10	3.26-12	3.13-14	3.51-19	2.18-26	1.94-10	4.55-11
7.26-10	7.99-10	7.03-10	2.11-10	4.58-14	6.51-17	2.97-24	1.62-10	2.89-11
7.36-10	4.35-10	2.08-10	1.29-11	2.96-13	6.57-16	2.29-23	1.32-10	2.41-11
6.05-10	2.01-09	3.82-10	4.49-11	2.34-14	2.11-17	9.99-24	1.28-10	3.73-11
5.71-10	2.75-10	1.65-10	3.36-11	5.34-14	1.28-15	1.36-22	1.56-10	3.85-11
2.86-10	6.57-10	1.30-10	1.87-11	2.10-13	5.97-15	3.97-24	8.60-11	1.60-11
6.21-10	2.71-10	2.69-10	7.81-11	2.49-11	9.11-16	1.54-19	1.02-10	3.14-11
6.07-10	4.89-10	4.05-10	1.29-10	2.26-13	7.20-18	2.58-25	1.09-10	2.47-11
4.45-10	2.60-10	6.32-10	6.54-11	1.67-14	1.71-18	3.77-29	9.98-11	5.58-11
1.15-09	1.26-09	6.25-10	1.29-10	7.02-12	2.65-15	4.11-20		
1.62-10	3.21-10	1.60-10	6.20-11	6.14-12	2.38-15	4.11-20	2.71-10	2.32-11

PHI 90 TO 135 DEGREES

8.38-11	1.45-10	4.11-10	1.35-12	3.37-12	1.44-18	4.61-26	1.91-10	7.16-11
2.12-09	3.77-09	5.72-11	2.97-12	4.97-15	4.52-19	1.09-25	2.69-10	1.13-10
4.53-10	1.57-10	1.37-10	2.22-11	1.55-13	4.74-16	4.62-23	1.70-10	1.16-10
2.03-10	3.48-10	3.33-11	8.66-12	1.10-13	2.07-17	1.38-24	6.23-11	1.38-11
3.06-10	4.83-10	1.38-10	7.92-12	4.15-13	7.10-17	4.41-25	1.28-10	6.33-11
5.68-10	1.57-10	1.23-10	2.40-11	1.14-13	1.48-16	1.32-26	9.78-11	3.93-11
3.16-10	1.37-10	1.78-10	5.48-11	4.87-14	1.83-15	1.89-24	6.45-11	1.45-11
1.11-09	4.64-10	2.13-10	4.42-12	1.04-13	2.88-18	3.23-24	7.16-11	2.09-11
1.85-09	3.44-10	2.68-10	2.17-11	2.12-12	4.66-16	1.11-21	6.58-11	3.04-11
5.80-10	5.11-10	2.11-10	6.10-12	2.02-14	2.25-17	5.70-29	9.78-11	7.04-11
1.47-09	1.19-09	3.07-10	3.81-11	7.86-13	8.50-16	2.07-22		
4.58-10	6.19-10	6.42-11	1.65-11	4.05-13	8.05-16	1.70-22	2.20-10	4.15-11

PHI 135 TO 180 DEGREES

4.82-10	1.60-09	7.58-11	3.90-12	1.93-13	6.84-19	1.79-29	1.44-10	5.41-11
5.24-10	5.14-11	2.23-10	7.51-11	4.93-14	6.65-20	5.54-31	1.44-10	6.56-11
9.72-10	2.16-09	1.73-10	1.68-10	2.54-14	1.28-18	9.89-25	1.45-10	6.72-11
7.01-10	2.32-10	6.53-11	5.17-11	6.35-13	9.95-18	2.53-23	1.10-10	4.15-11
3.91-10	2.95-10	4.16-10	2.56-11	1.57-11	1.96-16	2.61-25	1.33-10	6.94-11
2.39-10	7.28-10	6.25-10	6.67-12	1.66-13	1.59-15	2.46-29	4.67-11	1.46-11
3.60-10	3.55-10	4.95-10	4.29-12	1.31-11	2.21-18	5.41-28	1.34-10	6.03-11
6.42-10	1.22-10	1.06-10	5.98-11	1.63-13	7.01-18	6.68-26	2.50-10	1.96-10
2.07-10	9.66-11	5.03-11	6.81-12	7.53-15	1.61-17	3.76-27	2.87-11	8.95-12
3.38-10	3.30-11	1.89-10	1.25-12	1.45-14	1.31-18	4.46-26	2.50-11	1.15-11
1.06-09	1.10-09	5.01-10	9.89-11	7.32-12	3.90-16	8.60-24		
2.81-10	5.67-10	1.40-10	4.72-11	6.86-12	2.59-16	8.12-24	2.56-10	7.41-11
							4.29-09	2.07-10

AIR SCATTERING 1.39 02 ENERGY 6.00-01 ANGLE 9.00 01 DIST. 3.05 03
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.	3.28-08	4.72-08	0.	0.	0.	0.
4.00 01	0.	0.	0.	3.03-08	0.	0.	0.	0.
6.00 01	0.	0.	0.	3.77-09	9.64-09	0.	0.	0.
8.00 01	0.	0.	0.	0.	3.69-09	0.	0.	0.
9.00 01	0.	0.	0.	0.	5.50-11	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.	1.98-09	9.12-09	3.78-09	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.	2.32-08	3.51-08	5.25-09	3.87-09	3.24-09	1.93-09
4.00 01	0.	0.	5.23-10	2.04-08	3.82-09	3.80-09	1.49-09	9.21-10
6.00 01	0.	0.	0.	4.88-09	1.01-08	2.23-09	1.48-09	9.39-10
8.00 01	0.	0.	0.	1.09-09	5.86-09	1.47-09	9.59-10	1.59-09
9.00 01	0.	0.	0.	1.98-11	1.75-09	1.07-09	1.93-09	1.09-09
1.00 02	0.	0.	0.	2.76-10	1.87-09	2.00-09	1.76-09	1.26-09
1.20 02	0.	0.	0.	3.41-12	1.41-09	2.75-10	4.71-10	5.56-10
1.40 02	0.	0.	0.	4.82-13	4.37-10	2.94-09	3.13-10	5.52-10
1.60 02	0.	0.	0.	0.	1.07-11	3.73-10	5.50-10	4.16-10
1.80 02	0.	0.	0.	0.	0.	6.22-11	4.43-11	2.10-10
	0.	0.	1.49-09	7.36-09	6.80-09	3.44-09	2.13-09	1.87-09
	0.	0.	1.74-10	4.41-10	4.88-10	7.19-10	3.19-10	2.57-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	1.16-09	2.12-09	3.50-09	8.25-10	1.75-09
4.00 01	0.	0.	0.	0.	8.81-10	1.65-09	1.46-09	9.45-10
6.00 01	0.	0.	0.	4.67-10	7.39-10	1.04-09	1.91-09	1.85-09
8.00 01	0.	0.	0.	0.	5.75-10	1.20-09	1.68-09	2.25-09
9.00 01	0.	0.	0.	0.	1.20-10	6.72-10	1.54-09	4.77-10
1.00 02	0.	0.	0.	0.	6.79-12	7.63-10	5.67-10	8.36-10
1.20 02	0.	0.	0.	0.	2.97-11	1.12-09	1.70-09	3.18-10
1.40 02	0.	0.	0.	0.	4.04-11	5.25-10	3.79-10	7.45-10
1.60 02	0.	0.	0.	0.	0.	3.54-10	1.28-09	1.57-09
1.80 02	0.	0.	0.	0.	0.	1.64-10	1.35-10	1.01-09
	0.	0.	0.	1.95-10	7.08-10	1.99-09	2.61-09	2.36-09
	0.	0.	0.	1.25-10	2.10-10	3.05-10	4.74-10	5.77-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	4.62-10	9.29-10	8.10-10	3.34-09
4.00 01	0.	0.	0.	0.	7.04-10	5.79-10	9.05-10	2.63-09
6.00 01	0.	0.	0.	0.	1.54-09	1.30-09	1.15-09	9.98-10
8.00 01	0.	0.	0.	1.01-10	2.05-10	6.32-10	4.82-10	1.03-09
9.00 01	0.	0.	0.	0.	2.15-13	2.37-10	5.85-10	7.46-10
1.00 02	0.	0.	0.	0.	0.	2.47-11	4.48-10	1.46-09
1.20 02	0.	0.	0.	0.	8.20-13	7.22-10	5.68-10	7.19-10
1.40 02	0.	0.	0.	0.	3.07-13	8.69-12	4.28-10	3.50-10
1.60 02	0.	0.	0.	0.	0.	2.66-10	6.27-10	1.12-11
1.80 02	0.	0.	0.	0.	0.	8.92-11	3.47-10	6.04-12
	0.	0.	0.	3.29-11	6.28-10	1.04-09	1.28-09	1.97-09
	0.	0.	0.	3.29-11	3.84-10	2.57-10	2.20-10	5.21-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	4.30-10	1.12-09	1.63-09	9.55-10
4.00 01	0.	0.	0.	0.	3.95-10	4.23-10	7.78-10	9.98-10
6.00 01	0.	0.	0.	0.	0.	3.24-09	1.97-09	1.97-09
8.00 01	0.	0.	0.	0.	0.	6.05-10	6.09-10	4.27-10
9.00 01	0.	0.	0.	0.	0.	0.	6.16-10	5.42-10
1.00 02	0.	0.	0.	0.	0.	0.	5.24-11	9.70-10
1.20 02	0.	0.	0.	0.	0.	1.95-14	7.54-10	2.92-10
1.40 02	0.	0.	0.	0.	0.	4.51-11	1.42-10	6.79-09
1.60 02	0.	0.	0.	0.	0.	2.44-10	2.19-10	2.11-09
1.80 02	0.	0.	0.	0.	7.32-12	3.10-11	3.85-10	2.96-10
	0.	0.	0.	0.	9.50-11	1.26-09	1.42-09	3.44-09
	0.	0.	0.	0.	7.34-11	8.48-10	3.59-10	1.76-09

300555016321 112505033735

AIR SCATTERING 1.39 02 ENERGY 6.00-01 ANGLE 9.00 01 DIST. 3.05 03
6.90 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.	5.64-09	
0.	0.	0.	0.	0.	0.	0.	1.52-09	
0.	0.	0.	0.	0.	0.	0.	6.71-10	
0.	0.	0.	0.	0.	0.	0.	1.85-10	
0.	0.	0.	0.	0.	0.	0.	2.75-12	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							8.42-10	

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		
8.81-10	2.68-10	8.77-11	1.63-11	3.61-12	4.39-15	6.12-25	4.61-09	3.74-10
6.73-10	3.90-10	2.27-10	9.47-11	9.52-12	6.09-16	1.05-26	1.46-09	1.07-10
2.20-09	4.75-10	1.54-10	1.36-10	1.85-12	4.04-18	2.20-26	9.32-10	7.10-11
3.51-09	4.22-10	2.69-10	4.15-11	1.88-13	1.71-17	3.11-27	5.30-10	6.43-11
5.65-10	6.59-10	2.72-10	1.18-10	3.96-13	3.10-17	3.73-25	2.22-10	4.51-11
8.56-10	6.80-10	2.90-10	4.73-11	1.33-13	1.44-16	8.85-24	2.72-10	5.95-11
4.37-10	7.61-10	8.01-10	6.45-11	1.61-13	1.00-16	1.52-22	1.29-10	4.43-11
2.63-10	5.36-10	1.95-10	5.92-11	2.03-13	4.47-17	1.90-20	1.44-10	7.46-11
7.50-10	1.87-10	8.18-10	4.00-11	6.16-13	1.52-18	3.65-23	6.19-11	1.78-11
1.55-09	3.04-10	8.23-11	3.24-11	2.45-14	2.37-18	1.09-26	4.26-11	1.65-11
2.58-09	1.02-09	7.31-10	1.42-10	2.73-12	4.53-16	5.12-21		
8.27-10	1.61-10	2.05-10	4.51-11	1.46-12	3.73-16	5.04-21	1.13-09	5.67-11

PHI 45 TO 90 DEGREES

7.67-10	5.20-10	7.99-11	6.30-11	1.82-13	2.19-18	4.51-25	3.51-10	8.63-11
9.01-10	9.92-10	2.59-10	3.47-10	9.09-13	5.74-18	5.73-27	1.89-10	4.97-11
1.42-09	1.02-09	2.04-10	2.08-11	6.72-14	6.84-19	6.02-27	2.26-10	5.02-11
1.25-09	7.44-10	5.37-10	5.42-11	1.78-13	5.47-19	2.08-27	1.98-10	4.56-11
3.14-10	3.37-10	6.11-10	8.88-12	1.32-13	1.57-15	3.38-24	9.76-11	2.54-11
9.96-10	1.39-09	1.08-09	2.23-11	3.68-13	2.22-19	1.36-28	1.02-10	2.88-11
5.34-10	7.61-10	2.45-09	4.01-11	2.01-13	1.60-15	1.47-27	1.35-10	3.93-11
2.57-10	2.40-10	2.12-10	6.92-11	4.06-13	9.54-17	1.14-21	5.42-11	1.50-11
4.06-10	3.63-10	2.86-10	3.21-11	1.76-13	2.51-15	4.59-24	9.51-11	3.52-11
4.05-10	2.29-10	9.51-12	1.73-11	1.61-14	1.14-18	2.51-26	3.98-11	1.52-11
1.55-09	1.40-09	1.48-09	1.31-10	5.36-13	1.26-15	3.06-22		
3.38-10	3.26-10	7.66-10	6.11-11	1.73-13	6.55-16	3.04-22	2.91-10	3.05-11

PHI 90 TO 135 DEGREES

3.42-10	5.16-10	9.47-11	4.67-11	2.63-13	7.99-17	4.14-27	1.55-10	6.28-11
1.04-09	3.37-09	1.92-10	1.73-11	8.42-13	6.53-18	1.15-25	1.89-10	5.23-11
7.26-10	7.82-10	2.44-10	1.83-11	5.71-14	9.93-19	1.24-25	1.95-10	7.36-11
6.05-10	1.50-09	4.48-10	6.63-11	4.43-12	2.75-16	3.08-23	1.01-10	2.40-11
5.91-10	1.63-10	9.97-11	1.13-10	6.55-12	2.20-16	2.00-28	5.49-11	1.42-11
1.20-09	5.68-10	1.60-09	4.23-10	2.12-12	7.36-17	1.02-26	9.22-11	3.00-11
8.41-10	4.09-10	1.39-09	1.05-11	9.28-12	1.05-18	8.73-23	8.41-11	1.83-11
7.76-10	3.90-10	5.90-11	1.81-11	2.73-13	5.46-18	3.11-25	4.03-11	1.26-11
3.05-10	6.85-10	1.69-10	2.42-11	3.38-13	8.11-17	6.03-25	4.18-11	1.40-11
3.37-11	3.72-10	5.14-10	2.54-11	5.79-15	1.35-20	4.80-30	2.29-11	7.92-12
1.38-09	1.82-09	1.08-09	1.39-10	6.29-12	1.63-16	3.88-23		
2.26-10	6.07-10	3.75-10	7.09-11	3.24-12	8.27-17	2.93-23	2.00-10	2.81-11

PHI 135 TO 180 DEGREES

2.30-10	1.24-10	9.18-11	1.72-09	4.49-15	1.73-18	7.38-24	1.42-10	3.90-11
9.39-10	4.41-10	1.26-10	4.52-11	3.52-12	9.10-19	1.34-22	1.01-10	3.31-11
5.48-10	1.32-10	1.13-09	3.45-11	3.02-13	6.15-19	5.03-24	2.20-10	1.03-10
1.23-09	1.07-09	1.47-10	1.08-11	4.70-13	2.23-17	2.54-26	8.17-11	2.27-11
3.10-10	6.21-10	2.79-10	4.58-11	1.13-12	3.03-18	4.54-25	4.49-11	1.23-11
6.39-10	1.71-10	7.82-11	9.21-11	3.29-13	7.57-17	1.67-27	3.69-11	1.54-11
3.56-10	2.31-10	2.12-10	7.57-12	1.14-13	1.05-18	7.49-29	4.01-11	1.41-11
1.24-09	6.83-10	7.24-11	4.69-12	8.59-14	8.03-18	2.13-27	1.74-10	1.33-10
9.32-10	1.53-10	1.18-10	1.48-11	6.08-14	2.93-17	2.37-26	7.74-11	3.40-11
1.09-09	1.80-10	1.93-10	1.17-12	5.47-14	3.78-20	3.94-25	4.42-11	1.69-11
1.56-09	9.00-10	5.60-10	1.55-10	1.17-12	2.90-17	2.52-23		
4.00-10	2.37-10	1.72-10	1.18-10	6.14-13	1.10-17	2.36-23	2.01-10	5.03-11
							2.86-09	1.52-10

AIR SCATTERING 1.40 02 ENERGY 6.00-01 ANGLE 1.35 02 DIST. 3.85 03
1.25-03 1.87-02 3.20 01 1.97-06

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.	1.27-07	0.	0.	0.
4.00 01	0.	0.	0.	0.	1.40-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	3.72-12	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.	1.01-08	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.	0.	3.31-09	8.77-08	6.66-09	1.92-09	9.68-10
4.00 01	0.	0.	0.	8.83-11	1.56-08	8.89-10	1.63-09	1.85-09
6.00 01	0.	0.	0.	1.55-12	1.89-09	9.56-10	1.00-09	8.49-10
8.00 01	0.	0.	0.	0.	1.14-09	2.18-09	5.95-10	2.51-09
9.00 01	0.	0.	0.	0.	1.75-11	5.61-10	2.36-10	6.94-10
1.00 02	0.	0.	0.	0.	3.92-11	3.12-10	2.93-10	6.81-10
1.20 02	0.	0.	0.	0.	3.96-13	2.29-10	3.02-10	3.81-10
1.40 02	0.	0.	0.	0.	0.	2.57-11	1.18-10	6.67-10
1.60 02	0.	0.	0.	0.	0.	3.89-11	6.38-10	3.45-10
1.80 02	0.	0.	0.	0.	0.	0.	3.41-11	5.24-12
	0.	0.	0.	2.16-10	8.88-09	1.76-09	1.19-09	2.03-09
	0.	0.	0.	1.08-10	3.68-10	4.30-10	1.67-10	6.65-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	6.66-09	8.98-10	1.50-09	9.91-10
4.00 01	0.	0.	0.	0.	3.43-09	1.44-09	3.22-09	1.17-09
6.00 01	0.	0.	0.	0.	2.47-10	7.03-10	4.74-10	6.26-10
8.00 01	0.	0.	4.75-11	1.75-10	1.08-10	9.80-10	3.82-10	3.61-10
9.00 01	0.	0.	0.	6.49-12	3.83-13	4.78-09	8.13-09	3.08-10
1.00 02	0.	0.	0.	0.	1.62-11	2.62-10	4.83-10	5.24-10
1.20 02	0.	0.	0.	0.	0.	1.53-10	3.72-10	8.61-11
1.40 02	0.	0.	0.	0.	0.	2.37-10	1.05-09	6.28-11
1.60 02	0.	0.	0.	0.	0.	2.72-13	3.36-10	1.22-11
1.80 02	0.	0.	0.	0.	0.	0.	2.78-11	3.63-10
	0.	0.	1.55-11	5.84-11	1.10-09	1.80-09	2.86-09	7.62-10
	0.	0.	1.55-11	5.72-11	2.74-10	6.49-10	1.34-09	1.14-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	1.24-08	3.72-09	1.91-09	5.96-10
4.00 01	0.	0.	0.	0.	3.46-10	1.08-09	7.14-10	1.54-09
6.00 01	0.	0.	0.	0.	0.	1.37-09	5.31-10	6.36-10
8.00 01	0.	0.	0.	0.	0.	2.22-10	3.96-10	3.51-10
9.00 01	0.	0.	0.	1.17-12	0.	1.30-10	2.30-10	8.26-10
1.00 02	0.	0.	0.	0.	1.41-10	5.60-11	1.30-10	2.89-10
1.20 02	0.	0.	0.	0.	0.	1.81-09	8.75-10	3.79-10
1.40 02	0.	0.	0.	0.	7.97-13	3.05-12	1.69-09	9.27-10
1.60 02	0.	0.	0.	0.	0.	1.50-10	4.67-10	2.52-11
1.80 02	0.	0.	0.	0.	0.	0.	7.55-10	3.64-11
	0.	0.	0.	2.04-13	8.32-10	1.50-09	1.43-09	1.16-09
	0.	0.	0.	2.04-13	5.64-10	5.87-10	3.70-10	3.06-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	1.56-09	3.89-09	2.48-09	5.20-10
4.00 01	0.	0.	0.	0.	0.	1.45-09	4.09-10	4.24-10
6.00 01	0.	0.	0.	0.	0.	4.42-10	2.72-10	9.21-10
8.00 01	0.	0.	0.	0.	0.	6.85-12	2.46-10	5.24-10
9.00 01	0.	0.	0.	0.	1.68-11	2.41-11	4.08-10	2.09-10
1.00 02	0.	0.	0.	0.	0.	6.00-10	1.03-10	1.83-09
1.20 02	0.	0.	0.	0.	0.	0.	4.09-09	2.43-10
1.40 02	0.	0.	0.	0.	0.	6.06-10	5.06-10	1.60-10
1.60 02	0.	0.	0.	0.	3.84-14	3.92-12	4.21-11	1.16-10
1.80 02	0.	0.	0.	0.	0.	0.	2.00-10	0.
	0.	0.	0.	0.	9.70-11	7.15-10	1.95-09	1.02-09
	0.	0.	0.	0.	8.12-11	2.23-10	1.15-09	2.32-10

1440146763 45 10174234636 1

AIR SCATTERING 1.40 02 ENERGY 6.00-01 ANGLE 1.35 02 DIST. 3.05 03
5.60 01 1.73 03 0. 0. 5.57 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.	6.37-09
0.	0.	0.	0.	0.	0.	0.	6.99-10
0.	0.	0.	0.	0.	0.	0.	1.86-13
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	5.06-10

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		
1.26-09	1.02-09	1.36-09	1.71-11	9.94-13	3.30-17	8.49-30	4.88-09	2.81-10
9.12-10	3.53-10	7.61-10	2.91-11	2.26-12	8.96-17	3.27-26	9.25-10	4.61-11
1.93-09	2.46-09	1.51-10	4.21-11	8.18-14	2.30-15	2.23-28	2.35-10	3.23-11
5.18-10	1.27-09	2.08-10	5.14-12	5.12-14	9.01-17	1.85-25	2.16-10	6.45-11
1.10-09	8.66-10	7.50-11	4.31-11	2.69-13	4.31-17	1.28-22	7.04-11	1.83-11
6.51-10	1.16-09	7.41-11	8.04-12	3.87-13	6.65-17	3.80-24	5.92-11	1.28-11
1.61-09	1.02-10	1.46-10	2.64-11	2.19-12	8.06-17	7.39-23	5.84-11	2.69-11
3.93-10	5.79-10	5.73-11	3.54-11	9.36-14	1.05-15	4.49-29	3.21-11	8.86-12
2.58-10	5.28-10	2.05-11	1.35-11	1.15-14	4.88-20	2.35-23	3.80-11	1.98-11
2.36-11	3.05-10	1.83-12	2.41-12	1.25-14	2.48-18	1.31-30	4.69-12	2.91-12
1.90-09	1.84-09	4.15-10	4.84-11	1.35-12	9.82-16	5.12-23		
4.90-10	7.64-10	1.29-10	1.62-11	5.56-13	6.57-16	2.89-23	6.45-10	3.42-11

PHI 45 TO 90 DEGREES

2.91-10	3.84-10	3.87-10	4.93-12	1.35-12	2.27-18	9.07-30	4.39-10	1.16-10
8.61-10	2.09-09	9.99-11	1.27-11	9.62-13	2.17-17	7.14-26	3.74-10	1.09-10
2.26-09	1.10-10	1.12-09	1.10-10	2.51-13	1.61-15	2.73-24	1.18-10	2.44-11
4.81-10	3.42-10	2.36-10	1.28-11	1.83-13	2.13-15	1.10-22	8.25-11	1.76-11
7.00-10	6.06-10	5.32-11	7.39-12	2.09-14	2.77-15	2.25-29	4.15-10	2.39-10
3.56-10	1.25-10	2.12-10	3.74-11	1.61-13	5.64-18	3.75-24	4.44-11	1.28-11
1.22-09	4.30-10	3.21-10	3.82-11	7.06-14	3.87-18	3.49-23	4.96-11	1.60-11
2.18-10	1.95-10	1.21-10	3.41-11	3.24-13	1.91-16	1.62-25	4.77-11	2.32-11
3.04-10	3.11-11	1.05-10	5.19-12	4.77-13	1.15-19	9.31-28	1.78-11	9.25-12
2.16-10	4.09-11	5.60-11	2.90-11	9.21-15	4.48-18	6.38-28	1.36-11	6.47-12
1.63-09	8.54-10	6.19-10	6.80-11	5.99-13	1.66-15	4.89-23		
3.85-10	3.08-10	2.38-10	2.18-11	2.61-13	1.24-15	3.13-23	2.62-10	4.92-11

PHI 90 TO 135 DEGREES

1.99-09	1.75-09	1.25-10	5.77-12	2.39-14	2.79-19	6.59-29	8.60-10	4.74-10
2.60-09	2.84-10	3.98-10	2.24-11	1.51-13	5.63-18	3.36-22	1.61-10	3.62-11
3.48-10	4.81-10	4.25-10	4.37-11	9.25-14	1.75-15	7.11-28	8.60-11	1.95-11
7.14-10	2.31-10	5.95-10	1.84-11	8.44-14	6.85-16	1.98-24	4.82-11	9.90-12
1.50-10	8.28-11	1.57-10	1.11-11	2.31-13	1.76-19	3.46-28	3.29-11	1.22-11
8.90-10	4.07-10	1.07-10	2.49-11	2.93-12	1.03-17	7.89-26	4.15-11	1.71-11
8.14-10	8.19-10	2.31-10	5.12-11	2.55-13	4.28-15	1.49-24	1.15-10	6.01-11
1.52-10	1.53-10	1.37-10	2.17-11	7.74-13	3.95-18	2.64-21	7.54-11	3.84-11
6.52-11	1.15-10	7.05-11	1.06-11	3.76-13	3.71-17	4.96-25	2.22-11	1.18-11
4.93-11	4.53-10	3.17-11	1.07-10	1.53-15	1.18-18	3.61-35	3.00-11	2.09-11
1.40-09	7.99-10	5.56-10	5.89-11	9.83-13	2.10-15	7.62-22		
3.83-10	2.51-10	1.35-10	1.89-11	4.16-13	1.47-15	7.05-22	1.95-10	4.20-11

PHI 135 TO 180 DEGREES

4.39-10	2.46-10	1.09-10	6.14-11	7.77-15	9.64-21	5.51-30	2.92-10	1.08-10
8.20-10	5.74-10	3.26-10	6.64-11	7.02-14	1.98-17	2.03-27	9.01-11	2.60-11
4.34-09	3.81-10	2.57-10	2.50-11	2.25-14	1.30-16	2.56-24	1.33-10	7.80-11
5.10-10	4.65-10	4.74-10	1.86-11	2.03-13	3.13-17	2.86-23	3.78-11	1.02-11
1.79-10	7.89-10	1.42-10	1.31-11	5.44-13	2.52-16	1.69-25	3.10-11	1.20-11
1.48-10	1.39-09	2.02-10	7.20-11	2.71-14	7.10-18	4.41-22	7.70-11	2.87-11
5.93-10	1.15-09	1.02-10	1.31-11	2.41-13	2.53-17	9.82-24	1.52-10	1.05-10
4.05-10	3.04-10	1.03-10	1.31-10	1.01-13	5.74-18	1.83-23	3.15-11	1.25-11
1.01-09	1.09-10	1.17-10	5.37-12	2.66-13	1.17-14	7.45-23	2.62-11	1.07-11
1.22-09	3.70-10	6.36-12	1.26-12	1.43-13	4.07-19	9.12-32	3.41-11	2.25-11
2.10-09	1.25-09	4.27-10	8.30-11	3.44-13	2.13-15	1.08-22		
1.05-09	5.11-10	1.61-10	3.16-11	1.12-13	2.03-15	8.19-23	1.64-10	4.43-11
							1.99-09	1.45-10

AIR SCATTERING 1.41 02 ENERGY 6.00-01 ANGLE 1.80 02 DIST. 3.05 03
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.	1.46-07	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.	8.80-09	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.	1.03-11	1.02-07	1.49-09	1.11-09	7.48-10
4.00 01	0.	0.	0.	0.	1.70-09	1.33-09	8.30-10	7.29-10
6.00 01	0.	0.	0.	0.	1.59-10	1.16-09	1.29-09	3.48-09
8.00 01	0.	0.	0.	0.	2.95-09	7.91-10	2.85-09	2.82-09
9.00 01	0.	0.	0.	0.	0.	3.20-10	3.46-10	4.39-10
1.00 02	0.	0.	0.	0.	0.	4.87-10	1.66-10	2.91-10
1.20 02	0.	0.	0.	0.	0.	1.61-12	3.45-10	6.27-10
1.40 02	0.	0.	0.	0.	0.	0.	5.55-10	1.24-09
1.60 02	0.	0.	0.	0.	0.	0.	2.65-10	2.06-10
1.80 02	0.	0.	0.	0.	0.	0.	1.56-12	1.26-10
	0.	0.	0.	6.21-13	7.46-09	1.03-09	1.88-09	2.72-09
	0.	0.	0.	6.21-13	1.01-09	2.20-10	8.30-10	1.04-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	1.61-11	1.00-08	1.17-09	1.37-09	3.61-09
4.00 01	0.	0.	0.	0.	3.98-09	2.08-09	8.63-10	1.39-09
6.00 01	0.	0.	0.	3.89-11	9.15-11	1.68-09	2.38-09	8.36-10
8.00 01	0.	0.	0.	0.	3.66-10	9.32-10	7.73-10	6.06-10
9.00 01	0.	0.	0.	0.	0.	1.19-10	1.29-10	5.59-10
1.00 02	0.	0.	0.	0.	0.	1.38-10	1.81-09	1.99-09
1.20 02	0.	0.	0.	0.	0.	6.86-11	4.64-10	1.73-10
1.40 02	0.	0.	0.	0.	1.76-12	2.82-15	6.67-10	4.83-10
1.60 02	0.	0.	0.	0.	0.	0.	1.34-09	1.61-10
1.80 02	0.	0.	0.	0.	0.	0.	7.03-11	7.95-12
	0.	0.	0.	1.13-11	1.44-09	1.25-09	2.02-09	1.53-09
	0.	0.	0.	1.04-11	4.11-10	2.63-10	4.71-10	2.96-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	7.30-09	5.98-10	1.86-09	9.76-10
4.00 01	0.	0.	0.	0.	1.42-09	7.34-10	9.18-10	2.76-09
6.00 01	0.	0.	0.	0.	9.96-11	1.45-09	6.78-10	6.55-10
8.00 01	0.	0.	0.	0.	3.85-11	5.27-10	3.82-10	4.23-10
9.00 01	0.	0.	0.	0.	5.15-15	6.75-10	3.37-10	3.05-10
1.00 02	0.	0.	0.	0.	0.	8.50-11	2.58-10	2.56-10
1.20 02	0.	0.	0.	0.	0.	1.30-12	1.08-09	8.41-11
1.40 02	0.	0.	0.	0.	0.	5.28-13	3.20-10	3.43-10
1.60 02	0.	0.	0.	0.	0.	0.	1.73-10	4.99-10
1.80 02	0.	0.	0.	0.	0.	0.	1.24-11	2.98-12
	0.	0.	0.	0.	7.26-10	8.53-10	1.15-09	1.15-09
	0.	0.	0.	0.	1.04-10	1.44-10	3.35-10	2.59-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	1.12-08	8.46-10	1.45-09	4.60-10
4.00 01	0.	0.	0.	0.	1.14-09	7.39-10	1.37-09	1.17-09
6.00 01	0.	0.	0.	0.	1.46-10	1.40-09	3.07-09	4.09-09
8.00 01	0.	0.	0.	0.	7.18-11	3.34-10	4.60-10	3.75-10
9.00 01	0.	0.	0.	0.	0.	1.41-10	4.58-11	2.33-10
1.00 02	0.	0.	0.	0.	0.	1.29-10	1.92-10	2.49-10
1.20 02	0.	0.	0.	0.	0.	3.77-11	1.22-10	3.65-10
1.40 02	0.	0.	0.	0.	1.18-10	1.33-10	5.61-10	2.73-10
1.60 02	0.	0.	0.	0.	0.	0.	3.36-10	1.17-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	6.42-11
	0.	0.	0.	0.	9.67-10	7.55-10	1.58-09	1.74-09
	0.	0.	0.	0.	2.87-10	1.44-10	5.60-10	9.33-10

112505033735 172115656515

AIR SCATTERING 1.41 02 ENERGY 6.00-01 ANGLE 1.80 02 DIST. 3.05 03
6.20 01 1.72 03 0. 0. 5.56 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.	7.30-09
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.	4.40-10

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		
1.30-09	2.01-09	3.57-10	6.32-11	1.03-12	7.53-16	7.27-28	5.25-09	2.03-10
7.59-10	9.04-10	1.38-09	4.66-11	1.14-14	8.13-19	1.80-24	2.03-10	3.27-11
8.11-10	1.46-09	1.47-09	6.83-12	3.18-14	2.37-17	4.69-27	1.97-10	6.23-11
2.83-10	2.31-10	1.20-09	4.88-12	1.24-12	6.15-18	1.95-24	3.33-10	1.73-10
7.81-10	3.24-10	1.88-10	1.21-11	3.31-13	5.18-17	2.33-25	4.96-11	1.46-11
5.06-10	2.93-10	6.67-11	4.74-11	1.87-13	1.99-16	9.20-26	3.95-11	1.37-11
5.38-10	2.22-10	2.34-10	5.68-11	1.47-12	1.21-16	1.33-21	3.87-11	9.07-12
4.03-10	5.34-10	1.08-10	6.97-12	1.00-13	7.05-18	1.04-26	5.59-11	2.30-11
3.08-08	4.57-10	1.18-10	9.59-12	1.54-14	8.03-19	3.47-25	6.35-10	6.13-10
3.29-09	2.94-12	8.36-12	1.63-11	9.74-14	1.17-16	9.99-26	6.86-11	6.30-11
6.58-09	1.14-09	1.21-09	4.87-11	1.08-12	1.46-16	4.35-22		
5.33-09	4.06-10	4.79-10	1.65-11	4.43-13	6.05-17	4.32-22	6.70-10	1.27-10

PHI 45 TO 90 DEGREES

1.40-09	9.50-10	2.68-10	8.73-10	1.14-13	3.59-18	4.99-26	6.97-10	1.23-10
1.46-09	3.73-10	3.30-10	2.55-11	8.83-13	1.39-17	7.81-24	3.52-10	1.10-10
8.15-10	1.50-09	5.30-10	1.27-11	6.96-13	1.07-14	1.92-23	1.82-10	4.64-11
4.86-10	3.78-10	4.15-10	2.28-11	3.00-12	1.28-17	2.04-25	9.94-11	2.51-11
2.53-10	2.85-10	1.24-10	5.80-11	7.41-13	1.66-17	3.21-28	2.82-11	7.48-12
2.06-09	9.66-10	2.41-10	2.37-11	3.06-12	4.63-16	1.51-25	1.52-10	6.31-11
7.33-10	2.68-10	9.41-10	1.13-11	1.48-12	2.01-15	2.44-26	4.63-11	1.93-11
6.00-10	2.56-10	2.08-10	1.17-11	3.21-14	5.27-18	9.89-26	4.65-11	1.85-11
9.55-11	2.51-11	1.55-10	2.27-11	1.11-13	3.69-16	2.16-24	4.73-11	3.41-11
1.29-10	6.79-11	1.13-10	9.12-13	1.07-13	2.30-16	9.24-26	6.66-12	3.24-12
1.54-09	1.03-09	8.09-10	9.29-11	2.50-12	3.66-15	6.97-24		
3.96-10	2.67-10	3.03-10	5.09-11	1.09-12	3.44-15	5.25-24	2.51-10	3.39-11

PHI 90 TO 135 DEGREES

6.19-10	5.23-10	3.07-10	1.34-11	4.79-13	1.63-19	2.46-27	4.79-10	7.36-11
3.92-09	4.18-10	4.47-10	5.30-11	4.86-12	8.62-18	1.78-25	2.63-10	5.62-11
4.53-10	1.99-09	1.12-09	5.71-11	1.99-12	1.04-15	9.96-24	1.22-10	2.52-11
5.59-10	1.08-09	2.03-10	9.48-12	7.61-13	4.42-16	5.88-26	6.17-11	1.11-11
1.96-09	1.65-09	1.57-10	6.85-11	8.43-12	1.64-16	3.21-30	9.43-11	3.25-11
6.64-10	6.31-10	3.16-10	1.16-10	7.64-12	1.06-16	8.84-27	4.10-11	1.26-11
1.21-09	1.30-10	2.06-10	3.27-11	4.57-12	1.80-17	1.22-27	6.17-11	3.29-11
7.43-10	2.26-10	2.23-10	6.57-12	4.15-14	1.00-18	8.71-27	3.59-11	1.36-11
2.71-10	9.59-11	3.94-09	1.27-11	3.72-13	7.20-20	1.96-28	6.11-11	3.99-11
2.23-10	7.63-11	9.89-12	2.18-13	7.47-13	1.01-16	2.67-26	5.76-12	4.18-12
2.13-09	1.54-09	1.35-09	7.49-11	6.06-12	4.81-16	2.70-24		
5.54-10	5.25-10	7.03-10	2.31-11	3.13-12	2.93-16	2.63-24	1.91-10	2.06-11

PHI 135 TO 180 DEGREES

1.32-09	6.63-09	8.78-11	1.28-11	2.58-14	1.34-18	1.45-23	7.31-10	2.54-10
8.70-10	1.37-09	1.91-10	1.95-11	4.81-13	1.69-18	5.99-26	1.77-10	3.44-11
6.75-10	1.23-09	3.12-10	1.35-11	1.38-13	2.25-15	2.07-21	2.52-10	1.06-10
7.64-10	3.60-09	1.46-10	2.99-11	3.12-13	5.68-16	9.31-24	8.79-11	2.60-11
4.76-10	1.11-10	2.62-10	7.81-12	2.51-13	6.01-18	6.13-22	2.36-11	5.41-12
4.84-10	3.20-10	3.12-10	1.82-11	9.04-14	1.26-18	2.38-23	3.07-11	7.62-12
3.27-10	4.00-10	7.46-10	5.14-12	1.05-13	3.10-17	6.90-25	3.01-11	8.89-12
2.33-10	1.81-09	1.52-10	1.22-11	2.30-13	3.34-19	3.53-25	5.66-11	2.01-11
3.12-10	5.30-11	1.03-10	1.92-11	4.07-14	5.79-19	2.10-26	2.03-11	7.84-12
7.65-11	2.74-11	1.17-11	1.23-11	3.29-15	9.41-18	0.	3.29-12	1.84-12
1.05-09	2.84-09	5.71-10	3.10-11	3.85-13	7.97-16	6.65-22		
2.10-10	1.19-09	2.13-10	6.35-12	1.29-13	4.44-16	5.61-22	2.09-10	3.68-11
							2.08-09	2.37-10

d_o, Source-Detector Separation Distance = 65 ft

AIR SCATTERING 2.00 02 ENERGY 1.20 01 ANGLE 1.00 DIST. 1.98 03
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	4.34-07	1.42-07	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	8.12-08	1.54-07	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	1.49-07	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.	1.74-07
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.22-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.46-07
	2.62-08	8.59-09	1.41-08	2.67-08	0.	4.86-08	0.	8.22-08

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	2.76-07	9.06-08	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	5.17-08	9.78-08	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	9.47-08	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.	1.11-07
1.60 02	0.	0.	0.	0.	0.	0.	0.	7.76-08
1.80 02	0.	0.	0.	0.	0.	0.	1.24-16	1.57-07
	1.67-08	5.47-09	8.97-09	1.70-08	0.	3.09-08	7.46-18	5.23-08
	4.18-09	5.46-09	8.97-09	1.70-08	0.	3.09-08	7.46-18	3.13-08

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.	7.64-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.92-10
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.	1.09-14	0.	5.45-15
1.80 02	0.	0.	0.	0.	0.	0.	6.07-15	3.95-12
	0.	0.	0.	0.	0.	1.89-15	3.66-16	7.13-11
	0.	0.	0.	0.	0.	1.89-15	3.32-16	5.46-11

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.	1.47-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.22-12
1.60 02	0.	0.	0.	0.	0.	0.	9.31-15	2.39-13
1.80 02	0.	0.	0.	0.	0.	0.	1.39-12	1.66-11
	0.	0.	0.	0.	0.	0.	8.56-14	6.68-12
	0.	0.	0.	0.	0.	0.	8.23-14	4.95-12

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.	4.91-11	1.37-13
1.40 02	0.	0.	0.	0.	0.	1.41-11	0.	6.43-13
1.60 02	0.	0.	0.	0.	0.	0.	1.94-13	2.58-12
1.80 02	0.	0.	0.	0.	0.	0.	7.22-14	3.13-11
	0.	0.	0.	0.	0.	3.75-12	1.61-11	2.55-12
	0.	0.	0.	0.	0.	3.74-12	1.60-11	1.35-12

00000000001 012034003215

AIR SCATTERING 2.00 02 ENERGY 1.20 01 ANGLE 1.00 DIST. 1.98 03
1.00 01 1.18 03 0. 0. 3.05 04 5.00 01 1.20 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.	2.53-06
0.	0.	0.	0.	0.	0.	0.	2.96-07
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	6.55-08
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.	2.60-08
0.	0.	0.	0.	0.	0.	0.	1.83-08
0.	0.	0.	0.	0.	0.	0.	3.69-08
0.	0.	0.	0.	0.	0.	0.	
							2.37-07

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.	0.	2.64-10	3.65-11	7.21-12	8.10-18	8.29-21	1.61-06	4.13-07
0.	3.36-11	1.18-10	6.60-11	1.71-11	2.25-13	1.08-22	1.88-07	1.33-07
2.68-13	3.44-10	1.49-10	6.44-11	3.97-11	3.31-13	1.71-25	2.82-11	1.43-11
1.12-12	2.52-10	6.25-10	5.61-11	1.45-11	5.93-15	3.05-24	4.17-08	4.17-08
1.32-12	5.17-10	1.58-10	6.19-12	1.50-11	6.86-14	2.25-24	3.72-11	2.06-11
6.51-11	5.40-11	2.88-11	1.50-10	2.66-12	1.48-13	1.14-25	1.38-11	6.69-12
8.27-11	6.69-11	4.08-11	1.01-10	3.51-11	1.88-13	4.05-22	1.59-11	4.69-12
6.18-11	9.39-11	2.02-10	1.02-10	4.91-10	3.00-14	6.83-25	1.66-08	1.66-08
2.13-10	2.42-10	2.97-10	1.82-11	1.13-11	4.90-15	1.98-24	1.17-08	8.81-09
5.45-10	1.17-10	5.80-11	2.11-11	5.02-12	3.02-13	2.56-21	2.35-08	7.77-09
1.25-10	3.75-10	4.35-10	1.41-10	1.66-10	2.55-13	8.07-22		
3.37-11	1.12-10	1.78-10	4.04-11	1.28-10	1.10-13	5.39-22	1.51-07	~~7.87~~

PHI 45 TO 90 DEGREES

0.	5.18-13	1.59-12	3.28-11	4.76-12	7.01-18	6.33-23	9.47-13	6.98-13
1.11-10	2.32-10	2.50-10	6.61-12	6.47-11	3.72-13	3.05-25	3.41-11	1.41-11
3.72-10	6.46-10	6.45-11	3.71-11	1.75-12	1.88-15	6.00-23	8.70-11	4.48-11
1.33-11	3.64-10	2.64-11	4.17-11	3.21-12	1.72-13	2.88-25	2.50-11	1.52-11
1.32-11	3.30-10	1.22-10	4.39-09	4.04-11	9.61-16	2.49-26	1.75-10	1.14-10
2.43-12	1.24-11	1.01-10	4.35-11	5.41-12	3.63-15	5.46-24	5.73-12	3.09-12
1.05-11	3.39-11	1.58-11	1.85-10	1.05-10	1.90-14	1.64-23	9.57-12	4.16-12
7.70-11	4.02-11	6.32-11	6.24-11	8.74-12	2.51-14	3.39-24	1.32-11	2.83-12
4.77-10	3.64-10	1.67-10	4.73-11	3.67-12	5.89-16	8.25-23	7.20-11	2.73-11
1.48-09	1.36-10	5.28-10	4.94-10	8.42-12	6.12-13	1.34-22	1.73-10	7.06-11
3.21-10	4.83-10	1.91-10	9.12-10	5.88-11	1.72-13	4.95-23		
1.19-10	2.10-10	5.31-11	7.54-10	3.53-11	7.44-14	2.34-23	9.83-11	2.63-11

PHI 90 TO 135 DEGREES

0.	2.84-10	0.	1.40-10	5.82-12	1.14-16	2.71-29	2.05-11	1.71-11
0.	2.60-10	1.77-10	2.34-10	2.51-11	8.72-14	3.25-23	2.80-11	1.49-11
0.	1.41-09	8.91-10	3.99-11	4.17-11	3.67-12	7.02-23	1.18-10	8.72-11
1.20-10	3.29-10	1.42-11	4.33-12	5.22-12	2.43-15	4.82-22	3.12-11	2.04-11
1.72-13	5.12-10	3.46-11	7.52-11	2.93-12	1.12-15	9.53-23	3.38-11	2.49-11
3.18-11	1.56-10	2.22-11	2.46-11	3.06-12	3.34-14	3.45-23	1.37-11	6.90-12
2.30-11	2.72-10	2.11-11	1.62-10	3.75-11	1.27-14	1.96-22	2.58-11	1.11-11
1.06-10	2.87-11	1.78-10	2.18-10	1.68-11	1.46-14	7.42-24	2.37-11	9.21-12
1.21-10	1.46-10	1.69-10	9.22-11	2.65-11	2.77-13	3.18-22	2.84-11	1.07-11
1.91-09	3.31-11	6.28-11	3.88-11	3.51-11	1.02-13	6.57-24	1.81-10	1.57-10
2.17-10	7.84-10	3.70-10	2.08-10	4.20-11	1.06-12	3.26-22		
1.14-10	3.93-10	2.41-10	7.22-11	1.66-11	9.67-13	1.99-22	8.65-11	2.99-11

PHI 135 TO 180 DEGREES

0.	0.	1.33-11	6.65-12	1.25-11	3.29-15	0.	8.27-13	5.37-13
0.	1.49-10	3.86-10	9.84-11	1.47-11	3.15-16	1.65-24	2.54-11	1.45-11
0.	4.51-11	4.52-10	6.25-11	1.01-11	3.12-14	4.69-20	2.06-11	1.30-11
9.37-13	1.08-10	3.04-10	3.06-11	1.72-11	7.41-15	4.28-25	1.85-11	7.78-12
2.23-12	5.56-11	1.32-10	8.80-12	3.90-11	7.32-15	2.01-25	9.08-12	5.05-12
3.06-12	2.35-11	2.84-11	1.49-11	1.23-12	1.18-14	9.03-24	3.08-12	8.82-13
6.01-11	5.27-11	7.57-11	5.44-11	2.53-12	2.52-14	1.37-23	2.54-11	1.37-11
5.54-10	5.73-11	3.65-11	5.00-11	1.48-11	2.06-15	3.11-22	6.23-11	3.24-11
5.45-10	7.21-11	1.78-10	1.10-10	3.13-11	4.36-15	1.06-24	6.33-11	3.07-11
1.06-09	2.97-11	1.17-10	1.98-10	1.33-10	4.29-15	2.73-29	1.13-10	3.45-11
3.27-10	1.34-10	3.87-10	1.10-10	3.68-11	2.41-14	1.26-20		
1.14-10	3.43-11	1.73-10	3.59-11	1.39-11	1.09-14	1.21-20	6.08-11	1.35-11
							2.38-07	5.78-08

AIR SCATTERING 2.01 02 ENERGY 1.20 01 ANGLE 1.50 01 DIST. 1.98 03
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.	1.10-08	1.26-08	7.65-09	0.	0.	0.	0.
4.00 01	0.	0.	0.	2.67-09	6.03-09	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	5.23-09	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	4.75-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	2.81-09	2.16-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.79-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	5.18-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	4.80-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	5.34-09
1.80 02	0.	0.	0.	0.	0.	0.	0.	8.69-10
	0.	6.63-10	7.57-10	9.26-10	1.05-09	1.39-09	2.04-09	4.98-09

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.	7.00-09	7.99-09	4.87-09	0.	0.	0.	0.
4.00 01	0.	0.	0.	1.70-09	3.84-09	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	3.33-09	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	3.03-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	1.79-09	1.37-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.41-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.30-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.05-09
1.60 02	0.	0.	0.	0.	0.	0.	2.50-12	3.41-09
1.80 02	0.	0.	0.	0.	0.	0.	6.95-12	8.73-10
	0.	4.22-10	4.82-10	5.89-10	6.67-10	8.85-10	1.30-09	3.19-09
	0.	1.02-10	1.38-10	2.08-10	2.72-10	3.61-10	4.93-10	5.84-10

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.	5.73-12
1.60 02	0.	0.	0.	0.	0.	0.	3.29-13	1.11-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	5.97-13
	0.	0.	0.	0.	0.	0.	5.71-14	1.75-12
	0.	0.	0.	0.	0.	0.	5.65-14	1.61-12

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.	5.44-16
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.72-11
1.80 02	0.	0.	0.	0.	0.	0.	1.85-15	1.67-12
	0.	0.	0.	0.	0.	0.	1.11-16	3.10-12
	0.	0.	0.	0.	0.	0.	1.07-16	2.53-12

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.	1.71-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	4.46-13
	0.	0.	0.	0.	0.	0.	0.	5.66-14
	0.	0.	0.	0.	0.	0.	0.	3.99-14

22162354255 5 1756054221 21

AIR SCATTERING 2.01 02 ENERGY 1.20 01 ANGLE 1.50 01 DIST. 1.98 03
2.20 01 1.17 03 0. 0. 3.09 04 5.00 01 1.20 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.	5.71-08	
0.	0.	0.	0.	0.	0.	0.	6.59-09	
0.	0.	0.	0.	0.	0.	0.	2.30-09	
0.	0.	0.	0.	0.	0.	0.	1.24-09	
0.	0.	0.	0.	0.	0.	0.	1.06-09	
0.	0.	0.	0.	0.	0.	0.	5.68-10	
0.	0.	0.	0.	0.	0.	0.	7.78-10	
0.	0.	0.	0.	0.	0.	0.	7.19-10	
0.	0.	0.	0.	0.	0.	0.	8.01-10	
0.	0.	0.	0.	0.	0.	0.	1.30-10	
0.	0.	0.	0.	0.	0.	0.		
							6.48-09	

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.	4.19-10	6.02-14	6.76-12	9.81-13	5.74-19	2.03-29	3.64-08	6.26-09
0.	6.48-11	2.17-12	1.62-11	6.25-12	1.64-13	2.77-23	4.20-09	1.32-09
8.77-11	3.85-11	7.14-11	8.14-11	5.37-13	7.27-13	2.30-23	1.48-09	5.97-10
1.15-11	8.25-11	1.56-10	7.09-11	2.96-11	8.88-14	7.53-21	8.00-10	3.52-10
7.97-12	9.71-11	5.27-11	6.30-11	1.86-11	2.22-14	9.68-24	6.82-10	3.88-10
1.96-11	3.83-11	6.55-11	2.98-11	6.94-11	3.69-12	3.14-22	3.70-10	2.56-10
5.95-10	4.03-11	1.52-10	2.54-11	2.37-10	2.45-14	1.38-19	5.61-10	2.01-10
6.26-10	8.47-11	7.50-11	1.83-10	2.03-11	6.22-14	4.14-21	5.27-10	1.27-10
9.40-10	1.01-10	1.13-10	2.73-10	1.58-11	1.18-13	2.90-22	6.13-10	8.06-11
9.53-10	1.57-10	5.63-11	8.35-11	5.32-12	3.37-13	1.37-22	2.32-10	5.50-11
6.13-10	1.60-10	1.83-10	1.74-10	1.12-10	9.61-13	4.87-20		
2.19-10	2.97-11	5.30-11	5.60-11	7.59-11	6.73-13	4.51-20	4.21-09	4.87-10

PHI 45 TO 90 DEGREES

0.	2.68-11	2.30-12	2.05-12	3.08-12	1.05-12	1.81-38	1.79-12	1.61-12
0.	2.83-10	5.28-11	2.40-10	3.15-12	2.26-14	8.10-22	2.47-11	1.26-11
9.69-11	9.51-10	2.98-11	1.48-10	5.65-13	1.61-14	4.07-20	7.04-11	5.36-11
1.43-11	1.35-10	1.69-10	2.81-11	2.94-10	1.03-14	4.81-22	2.05-11	7.07-12
7.14-13	3.43-10	1.86-11	1.17-10	2.92-10	2.32-12	5.81-24	2.86-11	1.35-11
7.05-11	3.66-11	3.31-10	1.66-10	3.64-11	9.90-14	6.82-23	2.50-11	1.40-11
1.72-10	3.89-11	1.66-11	4.73-11	9.21-11	2.05-13	2.35-21	2.09-11	6.47-12
1.08-10	8.95-11	5.53-11	3.27-10	1.19-10	5.89-13	8.13-22	2.76-11	9.20-12
4.36-10	1.33-10	2.06-10	1.16-10	2.92-10	5.00-14	5.27-22	6.20-11	2.19-11
2.55-10	8.23-11	1.26-10	1.74-10	1.30-11	3.64-13	2.73-28	3.68-11	2.15-11
2.19-10	4.78-10	1.97-10	2.73-10	2.67-10	7.49-13	1.22-20		
6.09-11	2.42-10	6.21-11	7.52-11	1.22-10	4.12-13	1.06-20	6.63-11	1.61-11

PHI 90 TO 135 DEGREES

2.05-10	2.99-10	2.79-12	7.29-13	1.42-11	6.96-15	1.27-31	3.67-11	2.57-11
0.	1.02-10	3.01-13	2.21-12	2.41-12	1.32-15	2.10-21	6.21-12	3.81-12
0.	8.64-11	2.66-11	1.66-11	2.23-11	7.42-15	1.24-21	6.87-12	4.39-12
7.23-13	1.70-10	9.89-11	3.09-11	2.15-11	1.95-13	3.52-20	1.49-11	6.68-12
1.62-10	1.22-10	4.49-11	3.35-11	3.07-11	7.92-13	1.64-27	2.48-11	1.28-11
1.25-10	2.91-11	7.12-12	1.51-10	1.04-10	2.65-13	1.37-25	1.84-11	1.12-11
5.09-10	1.75-10	1.79-11	1.99-10	2.62-11	1.27-11	9.02-22	6.22-11	4.08-11
5.38-11	3.29-11	4.53-11	1.27-10	5.15-12	1.60-14	1.06-25	1.16-11	3.63-12
1.26-10	1.10-10	3.43-10	6.12-11	3.49-10	6.53-14	3.79-19	3.96-11	1.45-11
1.46-10	1.06-10	7.93-11	1.87-11	7.50-10	3.38-14	1.45-23	3.43-11	1.53-11
2.74-10	2.32-10	1.31-10	1.57-10	1.53-10	4.41-12	7.82-20		
1.49-10	7.39-11	5.18-11	5.71-11	7.75-11	4.06-12	6.01-20	4.98-11	1.44-11

PHI 135 TO 180 DEGREES

0.	7.76-10	2.27-11	6.51-11	2.35-12	7.58-13	1.22-32	4.90-11	3.74-11
0.	1.02-10	3.54-12	1.78-10	2.89-11	2.08-13	4.13-19	1.09-11	6.30-12
0.	9.44-12	3.70-11	1.57-11	2.27-11	2.06-12	1.40-24	2.64-12	1.03-12
2.02-11	6.27-11	5.77-11	1.25-10	6.28-11	1.01-14	3.53-20	1.16-11	5.08-12
0.	8.46-11	5.38-11	2.97-11	8.39-11	8.03-15	4.31-21	8.98-12	4.43-12
1.46-11	4.99-10	1.54-11	1.80-10	7.92-11	2.40-13	5.63-22	3.73-11	1.99-11
5.80-11	7.82-11	6.89-11	2.28-11	1.72-11	4.11-13	3.96-21	1.32-11	4.64-12
5.99-11	1.01-11	1.09-10	1.96-10	3.41-11	1.28-13	8.83-21	1.30-11	4.80-12
2.06-11	5.19-11	6.82-11	3.21-10	2.51-11	1.69-12	5.03-22	1.53-11	7.36-12
7.04-11	2.06-10	4.23-11	5.62-11	6.67-11	4.04-13	3.46-28	2.26-11	1.10-11
5.18-11	2.38-10	1.07-10	2.11-10	8.31-11	1.16-12	8.77-20		
1.78-11	8.00-11	3.50-11	7.60-11	2.65-11	6.00-13	8.39-20	2.92-11	6.21-12
							6.83-09	7.73-10

AIR SCATTERING 2.02 02 ENERGY 1.20 01 ANGLE 3.00 01 DIST. 1.98 03
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.	2.78-10	7.39-09	6.74-09	0.	0.	0.
4.00 01	0.	0.	0.	0.	7.57-10	3.47-09	0.	0.
6.00 01	0.	0.	0.	0.	0.	4.09-10	2.43-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	1.16-09	8.29-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.52-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.13-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.93-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.63-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	3.28-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	1.68-11	4.45-10	5.38-10	7.12-10	1.03-09	2.20-09

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.	1.77-10	4.70-09	4.29-09	0.	8.57-10	0.
4.00 01	0.	0.	0.	0.	4.82-10	2.21-09	0.	3.39-10
6.00 01	0.	0.	0.	0.	0.	2.61-10	1.55-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	7.40-10	5.28-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.60-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.35-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.23-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.10-09
1.60 02	0.	0.	0.	0.	0.	0.	2.16-15	3.61-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.02-11
	0.	0.	1.07-11	2.84-10	3.42-10	4.53-10	7.05-10	1.50-09
	0.	0.	1.07-11	7.28-11	9.84-11	1.30-10	1.83-10	2.04-10

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.	7.62-14
1.60 02	0.	0.	0.	0.	0.	0.	0.	3.87-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	3.87-11
	0.	0.	0.	0.	0.	0.	0.	2.42-12
	0.	0.	0.	0.	0.	0.	0.	2.31-12

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.	1.33-14
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	5.43-17
1.80 02	0.	0.	0.	0.	0.	0.	0.	3.82-13
	0.	0.	0.	0.	0.	0.	0.	2.74-14
	0.	0.	0.	0.	0.	0.	0.	1.83-14

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.	1.64-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	9.54-16
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	4.36-13
	0.	0.	0.	0.	0.	0.	0.	4.36-13

164013735735 160272267555

AIR SCATTERING 2.02 02 ENERGY 1.20 01 ANGLE 3.00 01 DIST. 1.98 03

1.30 01	1.18 03	0.	0.	3.04 04	5.00 01	1.20 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.	1.23-08
0.	0.	0.	0.	0.	0.	0.	2.02-09
0.	0.	0.	0.	0.	0.	0.	8.12-10
0.	0.	0.	0.	0.	0.	0.	4.27-10
0.	0.	0.	0.	0.	0.	0.	3.78-10
0.	0.	0.	0.	0.	0.	0.	3.19-10
0.	0.	0.	0.	0.	0.	0.	2.89-10
0.	0.	0.	0.	0.	0.	0.	2.44-10
0.	0.	0.	0.	0.	0.	0.	4.91-11
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.73-09

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.	1.87-11	2.92-12	3.98-12	2.36-12	1.86-16	0.	8.03-09	1.60-09
1.67-10	8.87-11	7.72-11	1.55-11	5.93-12	1.63-13	4.11-34	1.36-09	3.59-10
2.75-13	1.30-10	1.57-09	5.83-11	4.14-10	1.70-15	8.55-24	5.89-10	1.72-10
2.65-10	2.14-10	7.40-11	5.98-11	8.52-12	1.27-14	6.38-26	3.13-10	9.81-11
9.32-10	3.22-11	3.82-10	5.52-11	8.44-13	1.33-15	1.16-28	3.41-10	1.24-10
1.05-10	4.84-10	2.89-11	4.80-10	1.14-11	1.67-15	1.03-24	2.52-10	8.24-11
3.58-10	8.36-11	1.10-10	1.48-10	1.11-11	7.60-14	1.55-22	2.29-10	4.67-11
4.58-10	4.68-11	1.12-10	3.34-10	9.12-11	6.78-13	4.45-20	2.23-10	2.65-11
2.85-10	8.06-11	5.74-11	2.06-11	8.34-12	7.59-14	2.18-25	8.73-11	1.52-11
2.83-10	6.38-11	7.39-11	1.39-11	5.27-12	4.68-16	1.81-19	3.39-11	1.27-11
6.01-10	2.65-10	6.06-10	2.59-10	1.46-10	2.52-13	2.28-20		
1.47-10	9.80-11	4.08-10	8.48-11	9.98-11	1.86-13	1.61-20	1.23-09	1.31-10

PHI 45 TO 90 DEGREES

0.	6.40-10	1.57-13	3.03-11	5.22-11	9.11-15	8.84-25	3.99-11	2.59-11
0.	1.41-11	2.60-11	4.17-10	7.45-11	5.83-17	8.70-23	1.29-11	8.24-12
0.	5.45-11	7.74-11	3.07-11	7.30-12	1.51-14	1.01-25	6.90-12	3.00-12
2.20-12	1.59-10	2.08-10	1.28-10	1.30-11	8.83-14	6.34-22	2.05-11	1.03-11
3.72-11	2.74-11	3.55-10	7.62-11	1.52-11	1.03-13	4.69-26	1.98-11	1.21-11
3.57-11	7.47-10	7.03-10	6.61-11	2.64-12	3.63-15	3.06-23	7.50-11	6.11-11
2.00-10	2.08-10	2.06-10	3.09-11	1.44-11	1.72-15	1.92-20	3.89-11	1.61-11
1.42-10	2.90-11	6.56-10	6.49-11	6.07-12	1.28-13	3.55-23	3.98-11	2.34-11
1.22-10	1.86-10	5.30-11	2.18-11	5.58-11	6.59-15	1.19-24	2.54-11	9.67-12
2.23-10	1.33-11	4.50-11	3.09-11	4.56-12	2.01-15	3.81-24	2.91-11	1.05-11
1.51-10	3.51-10	5.30-10	1.82-10	4.16-11	8.78-14	6.51-21		
4.59-11	1.77-10	2.19-10	6.90-11	1.57-11	4.24-14	6.28-21	5.91-11	1.71-11

PHI 90 TO 135 DEGREES

2.63-10	2.60-10	6.02-12	1.79-14	1.56-12	2.43-16	1.03-23	3.96-11	2.62-11
0.	6.51-11	6.34-11	3.45-12	3.50-11	7.15-16	4.64-24	6.80-12	3.87-12
0.	4.56-11	2.01-11	6.98-10	5.84-12	1.65-15	4.37-20	2.03-11	1.24-11
1.11-11	3.56-11	6.80-10	4.46-11	3.37-11	4.89-15	7.18-23	2.92-11	2.44-11
0.	3.63-11	4.21-11	1.63-11	7.99-11	1.51-17	2.68-24	5.28-12	1.84-12
1.71-12	3.78-11	2.11-11	5.24-11	3.26-10	5.33-14	5.70-21	9.33-12	5.03-12
7.00-12	1.35-11	3.16-11	1.76-11	9.66-12	3.77-15	3.01-20	3.15-12	7.97-13
1.61-11	1.51-11	3.86-11	3.57-11	8.44-10	3.43-14	9.95-22	1.73-11	9.34-12
5.35-12	3.62-11	1.07-11	1.38-11	2.37-11	3.75-13	8.39-27	3.73-12	1.39-12
2.59-11	8.29-11	1.33-11	6.23-11	1.88-12	1.15-13	2.07-21	8.16-12	3.19-12
2.89-11	8.21-11	2.73-10	2.34-10	3.21-10	9.38-14	2.28-20		
1.66-11	2.24-11	2.21-10	1.38-10	1.97-10	6.84-14	1.54-20	2.78-11	9.40-12

PHI 135 TO 180 DEGREES

0.	1.42-12	9.69-12	2.09-13	1.15-14	7.22-14	0.	4.40-13	3.46-13
0.	1.70-10	4.97-13	2.67-12	8.37-11	5.33-13	8.32-26	1.16-11	4.87-12
0.	3.26-10	1.56-11	4.82-11	3.91-13	1.30-13	2.45-18	2.13-11	1.26-11
0.	1.55-11	1.27-10	5.25-10	2.97-11	2.68-14	2.75-17	1.85-11	1.06-11
2.77-12	6.84-11	9.73-12	4.97-12	2.51-11	1.61-13	4.75-30	5.20-12	3.60-12
1.08-12	1.48-10	8.65-12	2.30-11	1.06-11	5.30-15	1.46-22	1.01-11	7.03-12
7.31-15	3.30-11	8.00-11	2.96-10	3.42-11	6.92-13	1.60-17	1.25-11	7.72-12
8.33-12	1.22-10	4.33-12	2.92-11	1.39-11	3.57-13	5.22-25	9.37-12	4.27-12
9.59-11	9.86-11	1.68-11	1.44-11	3.95-11	8.45-15	7.33-21	1.65-11	8.73-12
8.39-11	1.07-10	1.92-10	8.48-11	3.06-11	2.99-14	6.78-21	2.34-11	1.35-11
2.54-11	2.26-10	9.11-11	3.01-10	5.41-11	4.93-13	1.48-17		
1.40-11	8.96-11	2.78-11	2.27-10	2.39-11	3.45-13	1.09-17	2.72-11	7.43-12
							2.12-09	2.17-10

AIR SCATTERING 2.03 02 ENERGY 1.20 01 ANGLE 6.00 01 DIST. 1.98 03
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.	4.16-09	2.39-09	0.
4.00 01	0.	0.	0.	0.	0.	0.	2.13-09	0.
6.00 01	0.	0.	0.	0.	0.	0.	2.20-10	1.37-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.10-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	8.15-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	6.34-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.52-10
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.	2.51-10	5.72-10	1.06-09

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.	2.65-09	1.52-09	0.
4.00 01	0.	0.	0.	0.	0.	0.	1.80-09	3.04-10
6.00 01	0.	0.	0.	0.	0.	0.	1.40-10	9.45-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	7.02-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.63-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	5.35-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.95-10
1.40 02	0.	0.	0.	0.	0.	0.	3.20-18	2.63-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	8.93-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	1.60-10	4.42-10	8.23-10
	0.	0.	0.	0.	0.	3.47-11	9.73-11	8.32-11

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	8.71-10
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.	1.52-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.07-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	5.34-11
	0.	0.	0.	0.	0.	0.	0.	5.25-11

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.	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.	1.94-14
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	3.38-15
	0.	0.	0.	0.	0.	0.	0.	3.38-15

101742346361 150460375401

AIR SCATTERING 2.03 02 ENERGY 1.20 01 ANGLE 6.00 01 DIST. 1.98 03

2.30 01	1.77 03	0.	0.	4.57 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.	2.45-09	
0.	0.	0.	0.	0.	0.	0.	5.53-10	
0.	0.	0.	0.	0.	0.	0.	2.62-10	
0.	0.	0.	0.	0.	0.	0.	1.65-10	
0.	0.	0.	0.	0.	0.	0.	1.22-10	
0.	0.	0.	0.	0.	0.	0.	9.51-11	
0.	0.	0.	0.	0.	0.	0.	3.78-11	
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.		
							4.18-10	

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		
0.	1.74-09	1.58-12	3.34-12	5.05-11	1.73-14	1.20-24	1.67-09	3.20-10
8.11-11	4.57-11	3.65-11	2.71-10	2.11-11	1.52-13	1.41-21	5.32-10	1.42-10
1.39-10	1.52-10	4.51-11	6.05-11	1.63-11	4.18-14	3.48-23	2.03-10	3.64-11
2.47-10	1.37-10	1.65-10	2.48-11	3.61-11	5.00-13	5.40-19	1.43-10	2.15-11
4.24-10	1.04-10	1.58-10	3.06-10	9.68-12	5.64-13	1.64-20	1.42-10	2.40-11
2.96-10	2.47-10	1.40-10	7.51-10	1.73-11	2.95-13	1.40-20	1.45-10	2.98-11
1.98-10	1.69-10	1.34-10	1.59-10	1.03-11	5.37-13	1.61-20	8.11-11	1.14-11
4.02-10	2.00-10	1.91-10	4.86-11	1.16-11	1.07-13	1.21-18	5.68-11	2.04-11
5.12-11	5.35-11	9.85-11	5.84-11	3.19-11	1.33-13	2.31-22	1.46-11	4.02-12
6.93-13	3.91-11	3.53-12	1.29-10	2.47-12	1.42-15	1.55-26	5.66-12	3.20-12
4.38-10	3.79-10	2.36-10	3.37-10	3.96-11	5.78-13	5.09-19		
7.90-11	1.05-10	4.76-11	1.74-10	1.35-11	2.35-13	3.07-19	3.88-10	4.04-11

PHI 45 TO 90 DEGREES

0.	1.94-11	2.50-11	3.30-12	4.90-13	5.49-17	2.69-32	1.33-10	1.31-10
6.43-12	3.10-10	3.66-11	5.06-11	1.41-12	1.42-16	2.64-21	2.17-11	1.07-11
1.19-10	1.35-10	1.06-10	3.18-11	3.06-11	1.92-13	1.54-21	2.38-11	7.32-12
6.22-10	3.33-11	1.06-10	4.57-11	1.99-11	5.14-13	1.91-21	6.32-11	4.87-11
3.24-10	9.23-11	1.65-10	2.45-11	2.07-11	8.12-13	9.20-23	4.15-11	2.71-11
6.24-10	4.34-11	1.49-10	4.78-11	6.51-11	9.86-16	5.24-21	6.63-11	4.90-11
5.95-11	4.03-11	7.81-11	2.09-11	3.70-11	5.69-14	2.98-17	1.19-11	3.13-12
4.69-12	5.91-12	6.11-11	3.61-11	1.26-11	1.20-14	4.85-20	4.03-12	1.09-12
9.41-12	5.80-11	3.21-11	3.77-11	8.83-12	5.37-13	2.77-22	6.83-12	2.19-12
2.38-12	2.82-11	1.68-11	4.16-11	3.10-12	1.08-13	1.01-19	3.56-12	1.45-12
4.23-10	1.52-10	1.73-10	7.04-11	4.70-11	4.82-13	9.73-18		
2.07-10	3.99-11	4.17-11	1.37-11	1.45-11	2.26-13	9.72-18	6.38-11	2.05-11

PHI 90 TO 135 DEGREES

0.	4.89-11	1.38-11	1.87-11	3.86-12	7.94-14	8.42-23	3.94-12	2.36-12
0.	8.10-12	1.82-11	6.66-11	5.90-13	4.98-14	2.44-22	2.75-12	1.59-12
1.38-14	3.07-11	1.89-11	8.10-11	1.20-11	1.44-13	4.80-26	4.65-12	1.35-12
8.95-11	9.78-11	1.25-10	8.03-11	4.26-12	1.59-14	5.17-19	2.04-11	9.14-12
0.	4.29-11	9.51-12	6.31-11	3.37-11	2.35-16	2.79-22	4.93-12	2.05-12
8.65-13	4.07-11	2.06-11	5.70-11	3.33-12	5.17-14	2.29-22	4.68-12	1.58-12
5.56-12	7.96-12	3.50-11	4.17-11	1.47-11	1.18-13	3.32-22	3.46-12	1.20-12
1.32-11	1.62-11	7.99-11	6.35-11	5.82-12	3.32-13	4.40-24	6.65-12	2.16-12
1.33-11	1.78-11	2.99-11	1.95-10	5.79-11	2.92-14	7.79-21	8.88-12	5.30-12
1.28-11	1.71-11	8.37-11	7.79-12	1.11-11	4.59-16	2.99-26	5.55-12	3.00-12
3.78-11	7.00-11	9.79-11	1.46-10	2.84-11	1.98-13	1.70-19		
2.94-11	1.86-11	3.04-11	4.41-11	1.10-11	1.31-13	1.69-19	1.51-11	3.60-12

PHI 135 TO 180 DEGREES

0.	1.76-10	2.01-11	3.96-11	1.49-12	1.72-14	1.66-22	1.23-11	9.30-12
0.	3.62-11	7.68-12	4.00-12	4.60-12	2.17-15	2.89-26	2.63-12	1.79-12
0.	9.25-12	1.40-11	4.06-11	4.49-12	2.44-14	7.29-24	2.10-12	7.74-13
4.98-11	2.98-10	4.18-11	6.11-11	2.81-11	1.91-14	4.56-26	2.57-11	1.53-11
0.	4.04-11	1.03-10	7.60-12	2.94-12	6.97-14	1.75-25	6.37-12	4.04-12
5.61-13	5.15-12	1.62-12	2.33-11	1.74-11	2.83-14	7.05-26	1.24-12	4.34-13
5.00-12	1.05-11	4.31-11	3.16-10	1.31-11	3.53-14	2.39-24	1.05-11	6.49-12
0.	1.91-10	8.98-12	4.99-10	3.26-12	1.17-14	8.11-22	2.38-11	1.39-11
1.83-15	1.08-11	7.32-11	9.15-12	2.01-12	4.56-15	3.72-22	3.54-12	1.68-12
0.	2.73-13	3.32-10	1.18-11	1.24-12	4.85-15	7.64-24	1.23-11	1.17-11
1.82-11	1.81-10	8.73-11	2.77-10	2.04-11	4.69-14	2.94-22		
1.64-11	7.98-11	3.09-11	2.17-10	6.75-12	1.77-14	1.79-22	2.26-11	7.78-12
							7.69-10	8.28-11

AIR SCATTERING 2.04 02 ENERGY 1.20 01 ANGLE 9.00 01 DIST. 1.98 03
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.	3.13-09	2.18-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.99-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	9.65-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	4.31-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.63-11
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.	1.89-10	8.82-10

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.	2.18-09	3.60-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.45-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.64-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.53-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.79-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.72-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.11-13
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.	1.31-10	7.95-10
	0.	0.	0.	0.	0.	0.	3.12-11	1.29-10

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.	3.76-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	6.54-14
	0.	0.	0.	0.	0.	0.	0.	6.53-14

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.	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.	4.48-11
	0.	0.	0.	0.	0.	0.	0.	2.70-12
	0.	0.	0.	0.	0.	0.	0.	2.70-12

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.

141064442415 236434020541

AIR SCATTERING 2.04 02 ENERGY 1.20 01 ANGLE 9.00 01 DIST. 1.98 03

2.60 01	1.77 03	0.	0.	4.53 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.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.

1.14-09	
2.98-10	
1.45-10	
6.47-11	
6.94-12	
0.	
0.	
0.	
0.	
0.	
1.81-10	

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		
2.84-11	8.47-12	1.56-11	1.06-10	1.11-11	3.52-14	3.44-25	1.11-09	3.25-10
1.34-10	3.84-11	9.52-11	2.26-10	1.51-11	1.19-13	9.34-24	2.41-10	3.84-11
1.18-10	9.95-11	1.10-10	1.27-10	1.54-11	2.75-14	1.06-21	1.23-10	1.44-11
2.08-10	1.61-10	2.67-10	1.22-10	1.15-11	5.07-14	6.69-21	9.41-11	9.86-12
2.32-10	4.15-11	1.14-10	6.87-11	6.07-12	1.52-14	9.69-23	5.61-11	1.39-11
3.90-10	6.71-11	8.67-11	2.80-11	5.16-12	3.37-14	1.15-23	4.56-11	1.58-11
7.31-11	3.44-11	8.48-11	3.30-11	1.09-11	1.02-13	3.53-21	1.27-11	3.80-12
8.88-12	2.90-11	1.74-11	3.06-11	4.21-12	1.71-14	4.10-21	3.96-12	1.43-12
3.81-11	6.79-12	2.02-10	3.53-11	6.78-12	3.86-15	4.68-26	1.20-11	6.50-12
1.54-11	7.70-13	2.30-12	1.24-11	5.33-12	2.43-15	6.37-21	1.89-12	1.31-12
2.66-10	1.25-10	2.36-10	1.62-10	1.92-11	9.39-14	5.11-21		
4.35-11	2.24-11	6.40-11	3.56-11	3.57-12	3.13-14	2.83-21	1.97-10	2.42-11

PHI 45 TO 90 DEGREES

3.92-13	1.72-11	1.63-10	8.47-11	4.38-12	1.81-14	1.31-23	9.04-12	4.95-12
6.77-11	8.48-11	8.74-11	5.81-11	2.50-12	1.16-14	4.99-22	1.58-11	4.08-12
2.79-11	1.39-10	2.71-10	1.36-10	4.54-12	5.92-14	5.06-22	2.40-11	7.47-12
1.09-10	1.23-10	1.10-10	8.95-11	5.75-12	8.29-14	8.17-21	2.33-11	6.12-12
1.92-11	1.90-11	2.30-11	7.49-11	3.40-12	1.41-14	2.14-23	5.54-12	1.59-12
1.21-10	3.60-11	4.20-11	8.28-12	7.08-12	9.83-14	1.06-24	1.48-11	1.05-11
2.28-11	2.05-11	7.59-11	5.80-11	1.73-11	1.95-14	1.31-22	7.56-12	2.46-12
1.63-12	3.36-11	3.64-11	2.32-11	4.41-11	3.00-13	2.00-27	4.69-12	2.31-12
1.36-11	2.77-12	1.22-11	1.41-11	6.41-12	2.45-15	1.27-25	2.32-12	1.25-12
0.	1.79-11	5.26-16	1.08-11	3.51-12	4.85-16	7.92-21	1.38-12	1.10-12
8.92-11	1.20-10	1.81-10	1.23-10	2.43-11	1.52-13	3.41-21		
2.69-11	3.27-11	5.38-11	3.47-11	1.37-11	8.87-14	2.71-21	2.50-11	3.09-12

PHI 90 TO 135 DEGREES

0.	4.53-11	3.19-11	2.41-11	1.17-09	6.14-16	9.60-23	2.20-11	1.54-11
6.03-14	5.60-11	6.42-11	5.24-11	3.82-12	5.69-15	1.08-23	6.99-12	2.74-12
1.46-13	2.42-10	4.63-10	1.04-10	1.04-11	1.75-13	1.02-21	3.38-11	1.68-11
5.88-12	1.10-10	6.19-11	3.85-11	1.88-11	1.26-14	2.35-21	1.05-11	4.23-12
0.	1.63-11	4.69-10	3.48-10	2.08-11	3.54-13	9.43-25	2.65-11	1.75-11
1.18-12	2.13-10	6.63-11	8.75-11	1.28-11	3.31-13	2.24-25	1.76-11	1.19-11
5.14-13	1.01-09	9.24-11	5.48-11	4.67-11	1.53-13	1.07-23	6.57-11	5.97-11
1.76-14	1.63-11	7.13-11	3.20-10	8.10-12	1.46-13	3.48-24	1.13-11	5.45-12
9.66-13	7.85-12	1.50-11	2.84-11	1.49-12	5.73-13	1.12-20	1.81-12	7.22-13
0.	1.17-09	4.86-13	7.95-12	1.01-11	3.00-15	1.67-29	7.71-11	7.03-11
2.55-12	5.57-10	3.01-10	2.35-10	1.04-10	3.59-13	3.00-21		
1.95-12	3.37-10	1.29-10	8.59-11	6.53-11	1.44-13	1.75-21	5.21-11	2.11-11

PHI 135 TO 180 DEGREES

1.71-12	2.50-10	5.65-12	2.47-11	1.18-11	7.48-16	3.45-25	1.61-11	1.08-11
7.50-11	2.19-10	5.17-12	3.88-10	5.18-12	2.61-14	1.50-28	2.94-11	1.23-11
0.	6.14-11	4.70-11	4.01-11	2.28-10	1.89-14	7.32-22	9.76-12	4.07-12
1.96-10	1.27-11	5.80-12	1.83-10	1.61-10	2.82-14	1.47-24	2.54-11	1.80-11
0.	1.32-12	4.32-11	4.52-11	1.27-11	3.01-14	2.63-21	2.91-12	1.54-12
1.99-13	2.82-11	8.21-12	3.04-11	1.32-11	7.50-15	3.05-24	2.93-12	1.44-12
0.	2.06-11	2.43-11	1.83-11	1.77-11	2.61-13	7.96-23	2.82-12	1.16-12
0.	9.08-11	2.42-11	3.26-11	1.43-11	7.16-14	2.31-22	7.32-12	4.47-12
0.	4.68-12	4.67-12	3.92-11	2.72-12	6.60-15	2.51-23	1.43-12	7.71-13
7.01-13	1.86-11	2.99-12	1.05-11	1.79-12	3.42-13	6.43-24	1.57-12	8.57-13
7.71-11	1.11-10	3.99-11	1.75-10	1.29-10	1.51-13	7.45-22		
6.52-11	3.08-11	1.08-11	7.58-11	1.06-10	7.34-14	5.01-22	2.12-11	6.95-12
							4.65-10	5.71-11

AIR SCATTERING 2.05 02 ENERGY 1.20 01 ANGLE 1.35 02 DIST. 1.98 03
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.	6.40-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.21-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	8.15-12
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.	0.	5.99-10

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.	4.15-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	8.49-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.07-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.13-15
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.48-12
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.	4.03-10
	0.	0.	0.	0.	0.	0.	0.	4.20-11

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.	7.38-11
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.	1.28-11
	0.	0.	0.	0.	0.	0.	0.	1.28-11

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.	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.

1132101631 5 3120637311 41

AIR SCATTERING 2.05 02 ENERGY 1.20 01 ANGLE 1.35 02 DIST. 1.98 03
1.00 01 1.18 03 0. 0. 3.00 04 5.00 01 1.20 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.	9.59-10	
0.	0.	0.	0.	0.	0.	0.	1.82-10	
0.	0.	0.	0.	0.	0.	0.	1.22-12	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							8.98-11	

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		
8.81-10	1.49-10	3.02-10	2.80-11	2.80-12	3.72-13	5.94-20	7.22-10	1.08-10
4.62-10	3.38-10	2.92-10	5.32-11	5.22-12	2.06-12	3.74-23	2.01-10	2.87-11
2.83-10	4.82-11	4.72-11	5.60-11	6.70-12	1.82-14	1.84-19	3.46-11	8.20-12
1.74-10	8.64-11	6.13-11	4.13-11	1.23-11	1.09-13	2.39-22	2.42-11	7.72-12
2.80-11	4.16-11	2.81-11	4.86-11	8.12-12	9.47-15	7.79-26	7.54-12	2.25-12
2.43-11	6.15-11	9.79-11	7.16-12	1.09-12	1.52-14	4.18-23	9.59-12	4.95-12
7.30-12	2.11-11	5.48-10	1.39-11	4.36-12	3.16-15	1.99-22	2.20-11	1.84-11
5.71-12	1.40-10	3.58-11	3.49-11	6.18-12	4.49-13	1.44-20	1.12-11	7.46-12
7.38-18	1.95-11	1.46-11	1.02-11	1.05-11	5.56-14	1.84-28	2.10-12	1.09-12
0.	8.04-15	6.26-11	0.	1.39-12	2.54-12	5.48-31	2.30-12	1.95-12
2.78-10	1.74-10	3.18-10	6.38-11	1.35-11	7.08-13	5.66-20		
4.73-11	6.22-11	1.73-10	1.44-11	3.25-12	4.13-13	4.92-20	1.09-10	1.23-11

PHI 45 TO 90 DEGREES

2.86-10	6.26-11	2.74-10	8.05-12	6.28-12	5.11-14	4.16-32	3.96-11	2.28-11
1.78-10	7.88-11	1.11-10	7.18-11	3.02-11	2.50-13	2.86-25	3.80-11	1.57-11
6.54-11	8.52-11	5.19-11	4.46-11	6.79-12	5.36-14	2.96-23	1.40-11	5.96-12
1.02-11	1.88-11	3.68-10	5.92-11	8.86-12	9.59-14	7.63-23	1.69-11	1.06-11
2.41-12	1.16-11	6.72-11	8.12-11	9.37-13	5.74-14	6.60-24	5.29-12	2.26-12
1.34-12	1.02-11	9.13-12	9.34-12	2.58-11	6.28-15	6.28-25	1.67-12	7.31-13
2.09-13	7.38-11	2.34-11	8.26-12	1.10-11	3.29-15	4.02-26	5.65-12	2.55-12
9.08-14	2.23-10	8.05-12	1.90-11	2.67-12	3.29-15	2.23-23	1.42-11	1.30-11
0.	1.96-14	2.76-12	6.25-12	3.04-12	1.62-13	6.58-27	2.98-13	1.33-13
0.	1.08-12	6.86-12	0.	8.16-13	3.16-15	0.	3.24-13	2.55-13
6.95-11	1.34-10	1.94-10	6.87-11	1.98-11	1.33-13	4.00-23		
2.32-11	7.17-11	9.63-11	2.20-11	7.85-12	7.51-14	1.97-23	2.51-11	6.56-12

PHI 90 TO 135 DEGREES

3.42-11	5.23-11	1.93-10	1.40-10	4.61-11	1.02-13	2.44-22	1.72-11	6.52-12
7.54-11	5.69-11	3.68-11	2.01-10	3.88-12	1.36-15	2.72-24	1.64-11	5.51-12
5.48-11	3.70-11	1.43-11	8.69-12	4.37-12	5.52-15	1.84-24	7.94-12	4.97-12
1.21-13	1.89-10	2.43-11	2.02-11	1.61-11	1.89-16	5.53-23	1.29-11	1.01-11
3.38-14	4.00-12	2.31-11	1.75-11	4.05-12	7.15-14	4.58-27	1.55-12	7.78-13
0.	3.38-12	1.35-10	3.61-11	4.12-13	8.21-17	1.08-28	5.94-12	4.67-12
1.25-12	2.65-11	1.73-11	4.15-12	2.88-12	2.46-14	3.70-22	2.47-12	9.36-13
0.	4.04-12	5.80-12	1.83-11	1.53-12	4.70-15	1.55-23	9.13-13	4.58-13
7.87-13	5.44-13	5.66-12	5.47-13	9.39-12	3.87-14	2.02-24	4.62-13	2.25-13
0.	0.	3.30-12	1.31-12	1.18-12	1.67-14	5.01-31	1.68-13	1.36-13
3.03-11	9.56-11	6.56-11	6.79-11	1.37-11	3.74-14	1.59-22		
1.55-11	5.86-11	2.78-11	3.08-11	4.45-12	1.72-14	1.21-22	1.27-11	4.15-12

PHI 135 TO 180 DEGREES

4.84-10	5.22-12	1.08-12	3.65-10	6.20-13	8.69-16	1.89-21	5.27-11	3.67-11
8.72-12	3.16-11	4.32-11	4.63-12	1.97-12	9.79-15	7.20-23	4.37-12	1.67-12
5.98-12	4.62-11	3.47-11	1.46-11	1.89-11	6.73-15	2.30-25	5.19-12	2.17-12
0.	1.42-10	4.83-11	5.86-11	8.14-12	1.10-13	4.14-23	1.18-11	6.38-12
0.	1.15-11	2.93-12	5.64-11	2.51-12	8.43-16	1.48-25	2.19-12	1.23-12
0.	4.50-12	1.31-11	2.30-11	5.72-13	1.03-15	1.70-25	1.30-12	6.35-13
0.	9.14-12	8.51-12	3.65-12	6.69-13	3.11-16	4.33-24	9.53-13	5.29-13
7.59-12	1.20-11	2.67-12	3.20-12	1.67-12	3.83-14	2.06-23	1.60-12	1.01-12
0.	1.96-11	4.91-12	7.97-13	3.49-11	2.54-15	4.18-27	1.90-12	1.25-12
0.	0.	8.47-20	2.70-12	7.50-11	2.34-14	0.	1.19-12	1.10-12
3.43-11	7.68-11	3.97-11	6.20-11	1.98-11	5.20-14	1.47-22		
2.40-11	3.57-11	1.44-11	2.71-11	1.42-11	3.73-14	1.15-22	1.09-11	3.19-12
							2.48-10	2.99-11

AIR SCATTERING 2.06 02 ENERGY 1.20 01 ANGLE 1.80 02 DIST. 1.98 03
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.	7.98-09
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.	4.81-10

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.	5.10-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	9.17-15
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.	3.07-10
	0.	0.	0.	0.	0.	0.	0.	3.26-11

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.24-12
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.78-15
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.	7.56-14
	0.	0.	0.	0.	0.	0.	0.	2.82-14

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.51-12
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.39-17
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	7.58-14
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.	1.16-13
	0.	0.	0.	0.	0.	0.	0.	7.46-14

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.44-12
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.80-15
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.	8.71-14
	0.	0.	0.	0.	0.	0.	0.	6.13-14

312063731141 032246622651

AIR SCATTERING 2.06 02 ENERGY 1.20 01 ANGLE 1.80 02 DIST. 1.98 03

1.10 01	1.18 03	0.	0.	2.96 04	5.00 01	1.20 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.	1.20-09
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.	7.22-11

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		
3.91-10	7.23-12	7.83-11	2.86-10	4.59-10	2.26-14	1.37-23	8.16-10	8.28-11
2.39-10	6.36-11	1.24-10	3.75-11	9.90-10	1.54-13	4.01-20	4.56-11	1.82-11
7.40-11	9.13-11	5.95-11	4.79-11	3.25-10	6.90-14	2.59-17	2.03-11	6.35-12
1.14-11	6.77-11	1.77-10	1.03-10	3.11-11	1.97-13	8.31-24	1.44-11	5.05-12
5.67-14	9.14-12	1.04-11	1.81-11	1.25-10	7.24-15	1.23-20	3.24-12	1.80-12
5.24-14	1.08-11	1.23-11	1.45-11	4.62-11	1.05-12	7.64-25	2.14-12	7.00-13
0.	7.03-12	3.92-12	1.14-10	8.15-12	7.33-13	3.43-24	3.42-12	2.34-12
0.	9.34-12	1.29-11	1.46-11	5.64-12	1.04-13	8.38-23	1.46-12	7.89-13
0.	6.87-12	5.99-12	1.05-10	4.65-12	4.14-15	3.95-28	3.21-12	1.99-12
0.	0.	6.11-12	1.00-12	2.48-13	1.79-16	6.96-33	2.48-13	1.76-13
8.85-11	6.73-11	1.10-10	1.35-10	3.31-10	5.61-13	6.89-18		
2.36-11	2.21-11	4.06-11	4.12-11	1.91-10	3.11-13	6.88-18	7.03-11	7.14-12

PHI 45 TO 90 DEGREES

3.32-10	9.14-11	5.62-11	5.46-11	5.90-12	1.89-15	8.97-31	3.90-11	1.04-11
2.11-10	1.74-11	5.74-11	4.90-11	1.01-10	2.57-14	6.65-22	2.48-11	7.83-12
9.98-11	2.54-11	7.74-11	5.90-11	2.35-11	5.02-13	3.64-23	1.51-11	5.38-12
1.80-11	9.14-11	8.40-11	5.30-11	1.27-11	6.00-14	3.89-26	1.16-11	3.97-12
0.	4.87-11	9.36-12	4.26-11	6.58-12	7.12-14	5.89-27	4.38-12	2.34-12
2.31-14	8.69-12	3.54-11	1.57-11	2.34-11	1.31-12	1.94-23	2.54-12	1.01-12
2.41-13	1.28-11	1.01-11	1.53-11	2.85-11	7.55-14	1.48-21	1.95-12	7.40-13
0.	1.70-10	3.84-12	9.04-12	1.39-12	3.56-16	6.62-27	1.06-11	9.81-12
0.	1.89-11	2.04-10	3.93-11	7.58-12	1.60-16	6.03-30	9.55-12	5.02-12
0.	1.36-15	0.	3.05-11	1.58-13	1.91-18	0.	7.34-13	5.17-13
8.93-11	1.08-10	1.09-10	7.09-11	4.45-11	4.21-13	6.10-22		
2.28-11	4.91-11	2.90-11	1.41-11	1.61-11	2.44-13	4.51-22	2.08-11	4.30-12

PHI 90 TO 135 DEGREES

3.97-10	2.12-10	3.17-10	5.67-11	6.41-12	3.92-14	1.72-25	6.16-11	2.04-11
1.69-10	4.08-11	7.00-11	4.14-11	8.49-12	3.28-14	2.63-22	2.13-11	7.21-12
4.22-11	4.25-10	4.33-11	1.81-11	6.79-12	3.21-14	7.66-21	3.14-11	2.17-11
5.18-12	1.59-10	9.19-11	2.62-11	3.69-12	2.43-14	2.88-24	1.40-11	5.59-12
1.26-12	1.25-10	1.61-11	3.18-10	3.64-12	4.56-16	9.91-21	1.59-11	9.48-12
1.80-17	1.78-12	1.46-10	3.17-11	5.01-12	3.88-14	1.22-19	6.18-12	5.06-12
0.	1.35-11	1.51-11	2.34-11	1.55-11	7.19-16	2.72-25	2.14-12	7.09-13
0.	2.06-11	1.18-11	5.51-12	2.86-13	1.99-14	3.59-22	1.80-12	1.06-12
0.	2.13-11	4.65-12	8.52-12	3.47-14	8.27-14	3.54-25	1.65-12	1.23-12
0.	0.	5.37-11	3.01-10	2.16-11	9.52-14	2.34-22	9.47-12	6.22-12
6.65-11	2.20-10	1.13-10	1.13-10	1.28-11	5.70-14	2.51-20		
1.90-11	1.04-10	3.78-11	5.81-11	3.97-12	2.32-14	2.30-20	2.62-11	7.20-12

PHI 135 TO 180 DEGREES

1.17-09	7.36-10	4.14-11	3.56-11	1.71-11	1.03-12	1.37-21	1.53-10	6.52-11
8.99-11	2.85-11	1.12-10	8.24-12	3.81-12	4.75-15	1.05-21	1.41-11	4.96-12
1.53-10	1.08-10	8.91-11	1.94-11	6.15-12	1.24-14	7.40-22	2.40-11	7.71-12
1.71-11	2.13-10	7.61-11	1.28-11	1.20-12	5.35-15	4.50-25	1.74-11	9.29-12
2.75-11	1.93-11	1.70-10	1.75-11	2.46-12	1.21-12	3.24-26	1.02-11	4.17-12
3.22-14	4.54-12	8.39-12	7.55-12	1.10-11	2.75-15	1.17-24	9.23-13	4.91-13
0.	6.38-11	2.87-11	2.17-10	2.50-13	7.43-15	1.18-19	1.01-11	5.82-12
0.	1.85-11	3.29-11	3.97-12	5.50-12	3.92-12	5.35-30	2.51-12	1.13-12
0.	5.51-12	1.81-13	1.70-11	1.45-12	2.89-13	8.56-20	7.70-13	4.46-13
0.	0.	0.	9.00-11	1.23-13	5.40-21	1.27-24	2.16-12	2.13-12
1.37-10	1.78-10	1.20-10	9.75-11	7.86-12	1.37-12	5.37-20		
3.95-11	6.84-11	3.22-11	6.87-11	2.67-12	1.04-12	4.47-20	2.99-11	7.41-12
							2.31-10	2.46-11

AIR SCATTERING 2.07 02 ENERGY 7.00 ANGLE 1.00 DIST. 1.98 03
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	1.12-06	2.03-07	0.	0.	0.	0.	0.	0.
4.00 01	0.	7.78-08	1.14-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	1.20-07	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	1.59-07	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	4.66-07	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	4.23-07
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.94-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	7.93-07
	6.74-08	2.58-08	1.98-08	3.20-08	5.17-08	0.	8.09-08	1.94-07

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	7.11-07	1.29-07	0.	0.	0.	0.	0.	2.04-09
4.00 01	0.	4.95-08	7.25-08	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	7.65-08	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	1.01-07	0.	0.	2.62-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	2.97-07	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.69-07
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.23-07
1.80 02	0.	0.	0.	0.	0.	2.24-11	1.65-12	5.11-07
	4.29-08	1.64-08	1.26-08	2.04-08	3.29-08	1.35-12	5.15-08	1.24-07
	8.81-09	1.16-08	1.26-08	2.03-08	3.29-08	1.35-12	5.15-08	5.62-08

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.	4.41-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.70-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.90-12
1.60 02	0.	0.	0.	0.	0.	0.	3.53-11	1.46-10
1.80 02	0.	0.	0.	0.	0.	3.20-13	6.69-13	1.03-09
	0.	0.	0.	0.	0.	1.93-14	6.17-12	8.54-10
	0.	0.	0.	0.	0.	1.93-14	6.13-12	7.66-10

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.	4.67-11	0.
1.20 02	0.	0.	0.	0.	0.	0.	3.00-10	2.53-14
1.40 02	0.	0.	0.	0.	0.	0.	8.36-13	2.23-11
1.60 02	0.	0.	0.	0.	0.	3.76-15	6.00-12	2.13-10
1.80 02	0.	0.	0.	0.	0.	2.69-14	9.24-13	1.27-09
	0.	0.	0.	0.	0.	2.27-15	1.07-10	1.19-10
	0.	0.	0.	0.	0.	1.33-15	9.91-11	3.97-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	8.38-10
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.	2.78-10
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.	9.67-11
1.40 02	0.	0.	0.	0.	0.	0.	2.72-13	4.67-14
1.60 02	0.	0.	0.	0.	0.	0.	1.42-13	9.05-12
1.80 02	0.	0.	0.	0.	0.	2.72-11	2.45-11	3.58-10
	0.	0.	0.	0.	0.	1.64-12	1.58-12	1.96-10
	0.	0.	0.	0.	0.	1.64-12	1.40-12	1.09-10

0026514662 65 072032134511

AIR SCATTERING 2.07 02 ENERGY 7.00 ANGLE 1.00 DIST. 1.98 03

2.50 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.	3.10-06	
0.	0.	0.	0.	0.	0.	0.	2.42-07	
0.	0.	0.	0.	0.	0.	0.	8.41-08	
0.	0.	0.	0.	0.	0.	0.	6.34-08	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	8.39-08	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.	4.23-08	
0.	0.	0.	0.	0.	0.	0.	1.94-08	
0.	0.	0.	0.	0.	0.	0.	7.93-08	
0.	0.	0.	0.	0.	0.	0.	3.06-07	

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		
2.76-09	7.57-10	3.40-10	5.61-12	2.51-12	1.46-14	4.82-23	1.97-06	4.13-07
2.41-09	8.95-10	3.10-11	1.03-10	1.46-12	1.58-13	4.05-22	1.54-07	1.09-07
4.74-11	9.82-11	4.19-10	5.99-11	2.93-11	1.69-13	1.08-23	5.36-08	5.35-08
6.45-11	1.20-10	2.97-10	1.52-10	3.48-11	4.97-13	7.48-26	4.04-08	4.04-08
4.63-11	1.54-10	4.61-11	5.94-11	1.05-11	2.41-14	4.47-24	1.42-11	6.40-12
3.23-10	1.55-11	3.80-11	2.16-10	4.50-11	5.08-15	3.99-22	5.35-08	5.34-08
1.94-10	8.17-11	3.13-10	5.69-11	6.29-11	1.56-13	6.20-23	3.15-11	1.09-11
2.95-10	3.72-10	1.30-10	3.88-10	5.87-12	2.07-13	5.41-28	2.70-08	2.01-08
1.06-08	9.68-10	1.15-10	8.70-11	3.67-11	2.00-14	3.79-24	1.33-08	8.98-09
7.38-09	9.20-09	1.54-09	2.73-10	1.86-11	2.57-14	1.15-27	5.22-08	1.40-08
3.11-09	1.14-09	4.98-10	2.85-10	5.88-11	3.52-13	1.67-22		
1.90-09	5.35-10	1.75-10	8.62-11	2.15-11	1.86-13	1.15-22	1.95-07	3.82-08

PHI 45 TO 90 DEGREES

5.99-11	3.17-10	2.07-11	7.08-11	6.27-12	3.05-14	4.83-25	2.28-11	9.93-12
0.	9.30-10	7.15-11	6.29-11	1.37-09	9.84-14	7.56-28	6.79-11	4.26-11
9.17-11	1.65-10	1.80-10	3.90-11	2.34-11	1.73-13	1.04-26	2.25-11	7.99-12
3.91-11	6.61-11	5.70-10	8.04-11	1.68-11	1.67-13	2.74-27	2.65-11	1.21-11
1.18-09	5.35-11	1.72-10	5.69-11	1.06-11	7.51-15	6.20-24	1.04-10	9.11-11
1.37-10	1.43-10	5.66-11	5.24-11	2.95-11	9.14-13	6.54-23	4.62-10	4.41-10
6.35-10	1.24-10	7.63-11	8.25-11	7.68-12	1.39-13	4.13-24	6.12-11	3.17-11
3.02-09	1.04-10	4.24-11	2.20-10	2.12-10	8.12-13	1.31-25	2.56-10	2.32-10
7.71-10	9.74-11	8.45-11	5.77-11	6.06-12	1.39-14	2.74-24	9.15-11	4.00-11
3.41-10	1.47-10	2.61-10	1.52-10	4.41-11	3.24-12	3.20-25	1.50-10	4.62-11
1.44-09	3.74-10	3.54-10	1.75-10	3.20-10	7.39-13	1.43-23		
8.09-10	1.67-10	1.49-10	5.03-11	2.42-10	3.55-13	9.89-24	2.39-10	1.01-10

PHI 90 TO 135 DEGREES

0.	3.80-10	2.29-11	9.11-11	8.59-12	1.85-12	3.37-29	2.17-11	1.74-11
2.51-10	4.82-10	1.70-10	6.56-11	1.91-11	4.26-13	3.93-27	6.72-11	2.63-11
5.66-11	2.77-10	8.58-11	1.49-11	2.61-11	2.44-13	3.15-24	2.17-11	9.04-12
4.71-11	1.76-10	4.23-11	3.50-11	5.75-12	6.65-13	7.44-27	1.47-11	6.15-12
7.43-10	2.94-10	4.98-11	4.36-11	2.74-11	2.32-14	7.03-19	7.69-11	5.35-11
8.07-11	4.52-10	9.38-10	4.75-10	1.22-11	2.23-13	3.69-21	7.72-11	3.30-11
1.94-10	1.13-10	1.93-10	6.16-11	2.80-11	2.74-13	1.16-21	8.28-11	5.49-11
2.72-09	1.07-10	8.08-11	1.05-10	3.61-11	9.44-15	1.12-21	2.30-10	1.58-10
2.91-10	1.87-10	5.76-10	3.72-10	2.99-11	8.38-14	2.42-26	8.12-11	2.18-11
2.84-10	1.66-10	6.67-11	9.65-10	6.17-11	1.67-14	5.00-25	1.80-10	5.93-11
1.11-09	4.75-10	4.28-10	2.93-10	4.72-11	6.18-13	1.23-19		
5.49-10	1.01-10	2.32-10	8.98-11	1.21-11	2.87-13	1.23-19	1.64-10	6.17-11

PHI 135 TO 180 DEGREES

0.	1.32-09	1.41-10	3.39-10	6.27-12	1.73-15	2.14-33	1.61-10	9.61-11
1.58-10	1.55-09	5.83-12	1.29-10	1.48-10	3.86-13	1.33-22	9.47-11	5.34-11
3.23-11	1.26-09	2.56-10	1.56-11	5.76-11	2.78-14	7.51-25	7.47-11	5.57-11
2.70-10	2.34-10	1.32-10	4.28-11	5.07-12	2.83-13	1.00-24	6.63-11	3.19-11
6.21-12	1.33-11	1.33-10	3.94-10	2.86-11	1.10-12	1.64-24	1.37-11	8.42-12
4.32-10	1.27-10	4.69-11	5.30-11	3.11-11	3.56-13	9.99-22	4.39-11	2.66-11
2.01-10	8.04-11	2.63-11	2.06-10	1.58-11	1.48-13	9.75-24	3.50-11	1.31-11
1.48-10	2.21-10	9.03-11	7.71-11	5.53-11	9.74-13	5.97-23	2.81-11	9.45-12
4.22-10	7.19-11	5.96-11	1.17-10	5.22-11	2.71-13	5.30-22	4.32-11	1.76-11
9.45-10	1.37-10	1.92-10	6.13-11	8.59-11	3.71-13	8.57-30	1.39-10	4.60-11
4.35-10	8.89-10	2.06-10	2.50-10	8.75-11	7.96-13	3.09-22		
1.04-10	3.56-10	7.52-11	8.79-11	2.74-11	3.01-13	1.64-22	1.12-10	2.42-11
							3.07-07	6.00-08

AIR SCATTERING 2.08 02 ENERGY 7.00 ANGLE 1.50 01 DIST. 1.98 03
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	3.39-09	3.06-08	2.54-08	0.	0.	0.	0.	0.
4.00 01	0.	0.	7.58-10	1.08-08	6.12-09	0.	0.	0.
6.00 01	0.	0.	0.	0.	3.85-09	6.35-09	0.	0.
8.00 01	0.	0.	0.	0.	0.	4.51-09	3.26-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	7.92-09	0.
1.00 02	0.	0.	0.	0.	0.	0.	6.47-09	0.
1.20 02	0.	0.	0.	0.	0.	0.	2.76-09	7.10-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.23-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.37-08
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.05-09
	2.04-10	1.85-09	1.66-09	1.87-09	2.09-09	3.16-09	4.46-09	8.08-09

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	2.16-09	1.95-08	1.61-08	1.43-09	0.	0.	0.	0.
4.00 01	0.	0.	4.83-10	6.85-09	3.90-09	0.	0.	0.
6.00 01	0.	0.	0.	0.	2.45-09	4.04-09	0.	0.
8.00 01	0.	0.	0.	0.	0.	2.87-09	2.07-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	5.04-09	0.
1.00 02	0.	0.	0.	0.	0.	0.	7.92-09	0.
1.20 02	0.	0.	0.	0.	0.	0.	1.76-09	4.52-09
1.40 02	0.	0.	0.	0.	0.	0.	1.04-13	7.86-09
1.60 02	0.	0.	0.	0.	0.	0.	5.05-13	9.51-09
1.80 02	0.	0.	0.	0.	0.	0.	2.14-13	2.31-09
	1.30-10	1.18-09	1.06-09	1.28-09	1.33-09	2.01-09	3.50-09	5.36-09
	5.81-11	2.43-10	2.92-10	4.04-10	5.41-10	7.11-10	1.24-09	8.03-10

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.	8.96-14	2.00-14
1.40 02	0.	0.	0.	0.	0.	0.	2.56-11	8.14-11
1.60 02	0.	0.	0.	0.	0.	0.	3.97-14	3.04-10
1.80 02	0.	0.	0.	0.	0.	0.	1.18-13	4.55-11
	0.	0.	0.	0.	0.	0.	6.86-12	7.72-11
	0.	0.	0.	0.	0.	0.	6.81-12	4.96-11

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.	4.04-10
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.	3.59-14	9.83-13	4.94-11
1.60 02	0.	0.	0.	0.	0.	0.	5.16-12	4.10-12
1.80 02	0.	0.	0.	0.	0.	0.	3.89-11	6.88-12
	0.	0.	0.	0.	0.	9.54-15	3.51-12	1.46-10
	0.	0.	0.	0.	0.	9.54-15	2.02-12	1.32-10

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.	3.15-10
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.	1.16-13
1.60 02	0.	0.	0.	0.	0.	0.	2.56-14	8.80-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	6.04-11
	0.	0.	0.	0.	0.	0.	4.45-15	5.85-11
	0.	0.	0.	0.	0.	0.	4.44-15	5.47-11

11766765 1175 365544407211

AIR SCATTERING 2.08 02 ENERGY 7.00 ANGLE 1.50 01 DIST. 1.98 03

9.00	1.19 03	0.	0.	3.19 04	5.00 01	1.20 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.	8.23-08
0.	0.	0.	0.	0.	0.	0.	1.08-08
0.	0.	0.	0.	0.	0.	0.	3.44-09
0.	0.	0.	0.	0.	0.	0.	1.94-09
0.	0.	0.	0.	0.	0.	0.	1.43-09
0.	0.	0.	0.	0.	0.	0.	1.16-09
0.	0.	0.	0.	0.	0.	0.	1.21-09
0.	0.	0.	0.	0.	0.	0.	1.23-09
0.	0.	0.	0.	0.	0.	0.	1.37-09
0.	0.	0.	0.	0.	0.	0.	2.05-10
0.	0.	0.	0.	0.	0.	0.	9.81-09

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.	4.10-10	1.11-11	6.01-12	3.25-10	1.59-13	5.78-30	5.34-08	8.40-09
1.09-09	1.40-10	7.83-11	3.81-11	2.04-10	2.87-14	4.65-27	6.98-09	1.92-09
4.16-11	1.24-10	4.41-11	3.08-10	1.21-10	1.71-13	1.65-24	2.21-09	8.27-10
3.06-09	2.78-10	1.28-10	6.00-11	1.91-11	1.29-15	1.66-28	1.50-09	5.50-10
2.41-09	2.15-11	9.02-11	1.02-10	4.98-11	9.72-15	2.95-30	1.11-09	6.59-10
8.79-10	1.17-10	4.25-11	7.53-11	3.08-12	8.35-15	4.71-27	1.51-09	1.01-09
1.11-09	4.99-11	1.54-09	7.44-11	3.71-11	1.21-13	5.47-22	9.11-10	2.75-10
5.06-10	2.47-10	7.21-10	1.16-10	8.50-11	5.92-16	5.58-29	8.65-10	1.92-10
3.04-10	8.65-11	2.99-10	1.57-10	3.42-11	1.79-14	1.64-29	9.93-10	1.20-10
5.99-11	1.78-10	6.27-11	1.91-10	1.48-11	1.25-15	6.54-30	2.51-10	3.44-11
2.33-09	3.05-10	8.42-10	2.33-10	1.44-10	1.06-13	1.79-22		
1.34-09	7.19-11	4.77-10	5.59-11	5.62-11	5.67-14	1.78-22	6.68-09	7.02-10

PHI 45 TO 90 DEGREES

0.	9.58-10	8.12-11	2.51-12	7.01-13	2.19-15	1.13-38	5.06-11	2.34-11
1.70-10	7.67-10	9.45-12	1.20-11	1.95-12	2.15-13	4.02-22	5.25-11	2.39-11
4.98-12	2.12-10	2.15-10	8.75-10	6.59-10	3.36-14	1.10-22	4.39-11	1.80-11
1.55-10	3.78-11	1.11-10	7.95-10	9.17-12	6.44-14	6.11-26	3.39-11	1.39-11
2.13-10	1.43-10	3.28-10	3.46-09	2.30-11	5.36-14	4.85-29	1.04-10	6.89-11
1.29-10	1.34-09	2.69-10	4.07-10	1.39-11	1.05-13	1.02-21	9.40-11	4.83-11
1.81-10	3.71-11	2.46-10	1.32-10	3.19-11	1.33-13	9.34-21	2.73-11	9.62-12
3.04-10	2.31-10	2.01-10	6.41-10	1.88-11	8.15-14	2.27-29	6.81-11	1.93-11
1.69-10	1.41-10	1.15-09	4.00-10	8.72-12	1.76-15	1.14-29	9.59-11	4.28-11
2.64-10	2.91-11	6.59-11	9.58-11	4.93-11	3.43-14	1.58-24	3.18-11	1.59-11
3.26-10	6.16-10	5.41-10	1.46-09	2.05-10	1.63-13	3.32-21		
6.73-11	1.93-10	2.17-10	6.98-10	1.75-10	5.71-14	3.05-21	1.15-10	2.14-11

PHI 90 TO 135 DEGREES

0.	4.42-10	1.00-12	7.72-12	5.17-13	5.88-15	6.78-33	2.23-11	2.00-11
0.	6.62-10	7.50-11	6.45-12	6.48-12	3.40-16	6.12-31	3.57-11	2.24-11
2.88-16	1.29-10	2.66-10	5.32-10	1.95-12	1.41-14	2.26-26	2.57-11	1.15-11
8.19-11	2.49-10	1.62-10	2.27-10	1.84-12	2.58-14	2.57-28	6.91-11	4.21-11
2.07-11	6.04-11	3.72-10	2.29-10	6.47-12	9.26-15	4.57-25	2.12-11	1.07-11
6.24-11	9.59-12	4.10-10	5.19-11	3.87-11	1.44-14	3.33-29	2.01-11	1.03-11
7.43-11	7.15-11	1.11-10	2.53-10	1.75-11	1.80-14	6.23-26	1.84-11	6.60-12
3.87-10	9.11-11	4.16-11	7.65-11	1.87-11	3.75-14	3.39-27	4.22-11	2.28-11
1.37-10	1.14-10	2.91-10	6.24-10	9.71-12	1.11-12	4.91-24	3.99-11	1.27-11
1.62-09	1.10-10	3.20-11	1.13-11	4.44-11	3.48-13	1.78-23	1.45-10	8.82-11
2.85-10	3.43-10	3.72-10	4.78-10	2.52-11	2.47-13	2.03-24		
1.00-10	1.52-10	1.21-10	1.92-10	9.95-12	1.94-13	1.25-24	7.70-11	1.89-11

PHI 135 TO 180 DEGREES

0.	1.57-10	4.51-12	1.30-12	2.16-12	7.11-15	6.74-32	8.04-12	6.92-12
0.	2.06-11	5.62-12	2.24-11	2.27-11	2.20-13	1.64-26	1.95-12	7.32-13
4.31-18	1.29-10	4.70-11	9.99-11	4.93-11	5.15-14	3.65-23	1.06-11	3.30-12
9.98-12	3.11-10	2.09-10	3.67-11	4.61-11	1.35-15	6.07-29	2.44-11	1.30-11
4.14-10	1.81-11	8.33-11	2.80-10	8.51-13	3.59-14	3.30-25	7.38-11	6.39-11
4.55-11	4.45-11	1.39-09	7.63-10	3.44-10	4.57-15	2.07-25	7.09-11	4.69-11
6.78-11	1.50-10	1.82-10	2.05-11	2.51-10	1.24-14	5.78-24	2.24-11	9.18-12
5.38-11	1.96-09	3.73-10	8.23-11	3.42-12	2.91-14	9.08-24	1.16-10	8.27-11
3.91-10	3.94-11	2.04-10	1.91-10	7.10-12	1.25-14	1.61-27	4.38-11	2.58-11
1.51-10	1.44-10	1.24-10	4.12-11	3.06-11	4.97-14	2.79-25	3.11-11	1.02-11
1.96-10	7.45-10	5.40-10	2.88-10	1.78-10	7.67-14	1.41-23		
9.17-11	4.45-10	2.62-10	1.80-10	1.56-10	2.98-14	1.01-23	8.42-11	3.28-11
							1.09-08	1.12-09

AIR SCATTERING 2.09 02 ENERGY 7.00 ANGLE 3.00 01 DIST. 1.98 03
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.	7.19-09	1.50-08	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	6.13-09	2.53-09	0.	0.
6.00 01	0.	0.	0.	0.	0.	3.67-09	1.07-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	4.23-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	3.25-09	0.
1.00 02	0.	0.	0.	0.	0.	0.	3.95-10	4.23-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.81-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	4.02-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	7.90-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	4.34-10	9.03-10	1.06-09	1.42-09	2.30-09	3.51-09

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.	4.58-09	9.53-09	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	3.90-09	1.61-09	0.	5.68-10
6.00 01	0.	0.	0.	0.	0.	2.34-09	6.80-10	0.
8.00 01	0.	0.	0.	0.	0.	0.	2.69-09	5.91-11
9.00 01	0.	0.	0.	0.	0.	0.	2.07-09	0.
1.00 02	0.	0.	0.	0.	0.	0.	2.51-10	3.09-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.45-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.05-09
1.60 02	0.	0.	0.	0.	0.	1.62-11	5.23-12	1.06-09
1.80 02	0.	0.	0.	0.	0.	4.18-15	1.86-11	1.75-10
	0.	0.	2.76-10	5.75-10	6.77-10	9.04-10	1.46-09	2.79-09
	0.	0.	7.62-11	1.38-10	1.95-10	2.40-10	3.17-10	3.35-10

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.	8.92-10	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.	1.34-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.74-12
1.60 02	0.	0.	0.	0.	0.	0.	2.11-14	1.56-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.92-12
	0.	0.	0.	0.	0.	0.	2.37-10	3.66-12
	0.	0.	0.	0.	0.	0.	2.37-10	1.39-12

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.	3.99-13
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.	6.42-13	1.04-13
1.80 02	0.	0.	0.	0.	0.	0.	3.01-12	1.10-11
	0.	0.	0.	0.	0.	0.	2.93-13	7.52-13
	0.	0.	0.	0.	0.	0.	2.03-13	5.89-13

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.	2.63-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	6.93-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.33-15
	0.	0.	0.	0.	0.	0.	0.	2.70-12
	0.	0.	0.	0.	0.	0.	0.	2.03-12

325713067401 117667651175

AIR SCATTERING 2.09 02 ENERGY 7.00 ANGLE 3.00 01 DIST. 1.98 03
1.60 01 1.18 03 0. 0. 3.23 04 5.00 01 1.20 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.	1.84-08	
0.	0.	0.	0.	0.	0.	0.	3.21-09	
0.	0.	0.	0.	0.	0.	0.	1.29-09	
0.	0.	0.	0.	0.	0.	0.	7.61-10	
0.	0.	0.	0.	0.	0.	0.	5.86-10	
0.	0.	0.	0.	0.	0.	0.	4.94-10	
0.	0.	0.	0.	0.	0.	0.	4.81-10	
0.	0.	0.	0.	0.	0.	0.	4.02-10	
0.	0.	0.	0.	0.	0.	0.	7.90-11	
0.	0.	0.	0.	0.	0.	0.	0.	
0.	0.	0.	0.	0.	0.	0.		
							2.72-09	

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.	8.32-11	4.63-10	1.82-10	4.34-12	9.23-14	1.80-28	1.17-08	2.11-09
5.01-10	1.52-10	2.44-11	5.72-11	2.22-12	2.41-14	2.84-26	2.15-09	5.30-10
5.94-11	1.06-09	3.56-11	2.51-10	3.62-11	7.12-13	1.17-24	8.88-10	2.42-10
1.30-09	6.70-11	1.24-10	9.24-11	8.48-12	2.03-13	2.30-20	6.04-10	1.58-10
4.90-10	6.08-11	7.91-11	1.19-10	1.27-10	1.49-13	4.92-24	4.22-10	1.44-10
2.09-10	2.38-10	1.42-10	1.83-11	2.19-11	8.10-14	1.45-19	3.88-10	1.19-10
5.88-10	4.04-10	1.85-10	5.85-11	1.92-11	1.16-13	4.30-22	4.19-10	7.98-11
2.22-10	1.24-10	1.95-10	7.58-11	2.22-11	3.65-14	2.07-23	3.37-10	3.90-11
2.10-10	1.95-10	2.74-10	1.43-10	1.69-11	3.99-13	8.06-27	1.50-10	1.77-11
5.07-11	1.36-09	8.03-10	7.85-11	1.04-10	1.65-13	9.43-28	1.22-10	6.79-11
9.40-10	6.67-10	3.29-10	2.10-10	6.03-11	4.32-13	3.28-20		
3.06-10	2.90-10	6.83-11	8.34-11	2.37-11	2.04-13	3.26-20	1.91-09	1.82-10

PHI 45 TO 90 DEGREES

0.	3.48-10	1.76-13	6.20-11	3.45-12	7.07-14	3.08-36	1.87-11	1.72-11
1.81-10	7.68-10	8.78-11	1.64-11	1.67-12	1.37-11	8.73-21	5.62-11	3.53-11
1.28-10	1.22-10	1.25-10	2.35-11	2.67-11	9.01-15	7.64-21	1.82-10	1.61-10
1.15-10	2.08-10	3.36-11	1.53-11	6.31-12	6.57-14	1.39-25	2.11-11	7.14-12
1.39-10	2.20-11	9.75-11	9.73-11	3.43-11	4.25-13	3.26-22	1.77-11	7.76-12
1.98-10	5.88-11	8.39-11	1.07-10	4.43-12	8.25-14	1.28-28	2.37-11	8.99-12
3.07-10	1.97-10	2.27-11	9.79-11	5.34-11	3.00-14	1.49-23	3.78-11	1.46-11
1.05-09	6.36-11	8.10-11	1.37-10	5.01-11	9.30-13	1.73-24	9.29-11	5.43-11
8.88-11	7.31-11	1.02-10	1.58-10	2.08-11	1.86-13	1.14-19	1.90-11	5.99-12
5.67-11	4.17-11	3.75-10	1.14-10	8.25-11	4.78-13	3.24-23	2.23-11	1.13-11
5.60-10	3.65-10	1.55-10	1.56-10	5.57-11	2.82-12	2.34-20		
1.94-10	1.27-10	3.97-11	4.56-11	1.55-11	2.37-12	2.00-20	1.15-10	4.61-11

PHI 90 TO 135 DEGREES

0.	1.37-10	1.06-10	3.68-12	7.53-14	3.70-20	3.77-28	1.03-11	5.65-12
0.	1.81-10	2.39-10	8.49-12	1.86-12	1.00-14	2.47-21	1.69-11	7.59-12
3.04-11	3.53-10	2.05-10	4.13-11	8.66-12	8.10-14	5.54-22	2.76-11	1.32-11
8.12-12	3.68-10	2.24-11	3.03-11	1.60-12	9.23-14	1.33-24	2.04-11	1.38-11
2.99-10	9.85-11	4.61-11	2.15-11	1.27-10	6.78-15	4.19-29	3.25-11	2.37-11
6.51-12	2.12-10	3.69-11	4.97-10	4.66-11	2.85-14	9.93-24	2.28-11	9.90-12
8.42-11	1.34-10	2.01-10	5.74-11	2.58-11	5.54-13	6.84-28	2.13-11	6.19-12
6.80-11	1.96-11	1.74-11	2.61-10	4.29-11	4.62-13	1.58-24	1.27-11	4.69-12
1.55-10	1.14-10	1.73-10	3.45-11	7.46-11	1.63-13	6.32-26	2.54-11	9.57-12
5.92-11	1.12-09	1.01-10	2.43-11	6.13-12	1.84-13	7.51-24	6.63-11	4.82-11
1.40-10	4.44-10	2.30-10	2.08-10	6.65-11	4.02-13	5.79-22		
5.62-11	1.24-10	7.09-11	8.54-11	2.60-11	2.77-13	4.51-22	4.59-11	8.83-12

PHI 135 TO 180 DEGREES

5.04-10	1.70-10	1.36-11	3.12-13	3.06-16	9.29-18	9.00-23	4.93-11	4.08-11
2.23-11	1.47-10	1.42-10	7.57-12	1.13-12	1.10-16	1.09-20	1.39-11	8.52-12
1.02-13	3.97-11	1.43-11	3.39-11	1.21-11	2.05-13	4.20-25	3.29-12	1.18-12
1.58-11	2.84-10	1.31-10	6.09-12	4.30-11	1.98-14	5.18-22	2.03-11	8.71-12
7.29-11	4.76-11	7.14-11	8.24-11	7.12-11	1.15-14	3.44-26	1.31-11	6.45-12
2.26-13	5.34-11	1.37-11	5.21-11	5.81-12	1.67-12	6.01-27	4.26-12	1.93-12
1.39-11	7.84-11	2.83-11	1.81-10	3.22-11	3.39-13	4.41-27	1.02-11	4.20-12
1.14-11	1.18-11	3.45-11	3.07-11	3.18-10	4.96-13	7.10-27	8.05-12	3.26-12
2.70-11	2.63-11	1.26-10	7.41-11	1.38-11	2.16-14	1.93-28	9.17-12	3.45-12
7.54-11	8.83-11	2.57-10	4.49-10	2.12-12	2.58-16	3.80-29	2.77-11	1.22-11
6.90-11	1.95-10	1.42-10	1.43-10	1.28-10	5.99-13	2.07-21		
3.39-11	6.00-11	3.99-11	5.77-11	6.59-11	5.12-13	1.90-21	2.46-11	5.05-12
							3.30-09	3.10-10

AIR SCATTERING 2.10 02 ENERGY 7.00 ANGLE 6.00 01 DIST. 1.98 03
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.	2.21-09	9.71-09	0.	0.
4.00 01	0.	0.	0.	0.	0.	1.30-09	2.98-09	0.
6.00 01	0.	0.	0.	0.	0.	0.	2.39-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	1.25-10	2.43-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.99-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.59-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	6.09-10
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.	1.33-10	8.11-10	1.20-09	1.61-09

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.	1.40-09	6.18-09	0.	0.
4.00 01	0.	0.	0.	0.	0.	1.23-09	1.90-09	0.
6.00 01	0.	0.	0.	0.	0.	0.	1.52-09	2.48-10
8.00 01	0.	0.	0.	0.	0.	0.	7.97-11	1.65-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.91-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.34-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	9.46-10
1.40 02	0.	0.	0.	0.	0.	0.	2.65-15	1.45-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.48-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	8.47-11	5.86-10	7.61-10	1.53-09
	0.	0.	0.	0.	3.78-11	1.32-10	1.25-10	1.62-10

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.	3.62-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.86-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.13-14
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.94-12
	0.	0.	0.	0.	0.	0.	0.	1.35-12

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.	4.17-14	3.29-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	4.28-12
	0.	0.	0.	0.	0.	0.	7.24-15	8.30-13
	0.	0.	0.	0.	0.	0.	7.24-15	6.27-13

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.	2.55-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.45-14
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	6.79-12
	0.	0.	0.	0.	0.	0.	0.	6.77-12

36152153247 1 2507034534 55

AIR SCATTERING 2.10 02 ENERGY 7.00 ANGLE 6.00 01 DIST. 1.98 03
2.20 01 1.17 03 0. 0. 3.22 04 5.00 01 1.20 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.	3.79-09
0.	0.	0.	0.	0.	0.	0.	9.25-10
0.	0.	0.	0.	0.	0.	0.	4.31-10
0.	0.	0.	0.	0.	0.	0.	2.65-10
0.	0.	0.	0.	0.	0.	0.	1.99-10
0.	0.	0.	0.	0.	0.	0.	1.59-10
0.	0.	0.	0.	0.	0.	0.	6.09-11
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.	6.73-10

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		
8.76-10	3.55-10	2.53-11	1.72-11	2.02-12	5.09-12	2.15-32	2.50-09	5.07-10
3.24-10	1.64-10	8.32-11	1.28-10	1.14-11	7.59-14	5.45-30	7.49-10	1.97-10
4.36-10	2.59-10	1.22-10	5.02-11	3.23-11	1.99-14	1.37-21	3.52-10	6.77-11
2.21-10	2.23-10	6.58-11	9.62-11	2.72-11	8.23-15	1.02-24	2.12-10	3.38-11
2.59-10	2.59-10	2.05-10	6.64-10	9.04-12	1.70-14	6.34-27	2.45-10	4.84-11
6.30-10	4.17-10	2.14-10	8.64-11	4.70-12	2.22-14	2.47-27	2.14-10	3.57-11
5.70-10	1.49-10	2.89-10	1.40-10	6.91-10	1.34-13	1.17-28	1.69-10	3.33-11
7.69-11	6.23-10	1.25-10	8.57-10	4.00-11	2.55-13	5.49-24	7.35-11	2.02-11
7.43-10	1.22-10	1.20-10	6.84-11	8.17-11	4.82-14	3.54-26	7.83-11	5.35-11
6.86-11	2.40-11	4.67-11	4.04-11	9.75-13	6.88-14	5.35-29	9.01-12	5.56-12
7.91-10	5.46-10	2.94-10	4.86-10	2.72-10	4.59-13	3.65-22		
1.76-10	1.25-10	6.23-11	1.95-10	2.34-10	3.13-13	3.63-22	6.13-10	6.00-11

PHI 45 TO 90 DEGREES

4.53-12	2.05-11	4.03-12	6.53-12	1.66-12	3.48-16	7.74-26	1.67-12	8.65-13
1.58-10	6.41-11	9.07-11	3.27-11	6.93-12	1.44-14	7.40-25	1.93-11	6.59-12
1.36-10	7.67-11	7.86-11	7.97-11	2.31-11	2.11-13	9.59-25	1.88-11	7.85-12
6.16-11	1.16-10	1.65-10	9.23-11	1.41-11	2.16-13	1.51-21	1.80-11	5.97-12
5.70-11	7.88-11	4.47-10	4.93-11	1.09-11	2.35-14	4.67-23	2.39-11	1.23-11
1.70-10	5.96-11	7.64-11	2.94-11	8.95-13	4.09-14	1.08-22	1.96-11	8.87-12
4.11-10	6.00-10	9.16-11	6.08-11	1.83-11	1.11-14	1.31-23	6.76-11	2.69-11
6.15-10	7.12-11	1.22-10	2.42-10	6.60-11	6.70-13	3.09-24	6.27-11	2.89-11
5.01-10	8.61-11	6.64-11	2.82-11	6.84-10	3.33-12	1.14-24	5.60-11	2.57-11
1.13-11	8.31-12	1.18-10	5.12-12	1.35-12	6.92-14	4.18-27	5.22-12	2.82-12
5.08-10	3.23-10	2.63-10	1.61-10	1.57-10	9.05-13	5.25-22		
1.55-10	1.55-10	9.97-11	4.51-11	7.89-11	5.89-13	3.37-22	7.07-11	1.54-11

PHI 90 TO 135 DEGREES

6.05-12	9.78-11	5.89-12	2.21-10	1.33-10	2.03-13	8.22-35	1.17-11	5.02-12
4.01-11	9.03-10	5.21-11	3.78-11	1.56-10	7.79-13	1.22-25	5.28-11	3.90-11
0.	1.47-10	7.55-11	4.38-11	2.04-11	2.60-12	4.60-23	1.10-11	3.91-12
3.04-11	6.66-11	7.80-11	2.85-11	6.95-12	9.09-14	1.68-24	8.92-12	3.31-12
1.52-11	3.18-11	3.39-11	2.39-11	1.39-12	1.12-13	4.36-21	4.39-12	2.01-12
5.14-11	1.88-12	4.30-11	7.23-11	7.23-11	1.92-12	3.84-21	7.99-12	3.41-12
1.14-10	1.32-11	1.62-11	1.33-10	2.26-11	7.43-13	9.19-19	1.32-11	8.93-12
1.40-11	2.98-11	2.97-11	1.99-11	7.04-12	3.64-13	1.22-20	4.06-12	1.60-12
2.85-11	5.45-12	1.18-10	1.68-10	2.79-11	1.05-14	1.09-21	1.04-11	4.33-12
6.26-11	1.88-11	8.89-10	1.42-10	4.17-11	5.27-15	9.46-25	3.82-11	2.18-11
7.84-11	2.44-10	1.56-10	1.44-10	7.21-11	1.56-12	3.05-19		
3.84-11	1.37-10	5.54-11	4.31-11	3.39-11	1.18-12	3.02-19	2.74-11	8.06-12

PHI 135 TO 180 DEGREES

4.17-11	3.07-10	5.33-12	1.50-11	4.63-13	2.64-13	3.36-30	1.92-11	1.48-11
2.52-11	6.79-11	1.04-11	1.17-10	6.59-10	5.49-17	1.05-30	1.66-11	9.17-12
1.79-10	2.15-11	2.09-11	6.95-10	4.50-12	4.72-15	1.69-23	3.09-11	1.95-11
2.48-11	9.24-11	2.58-11	4.31-11	1.25-11	5.53-13	8.70-22	8.78-12	3.40-12
1.20-10	6.88-10	1.74-10	1.47-11	2.67-12	1.46-14	1.32-26	4.99-11	3.63-11
5.40-11	2.56-09	1.22-10	6.03-11	8.12-11	6.74-14	1.43-24	1.39-10	1.15-10
8.73-13	2.41-11	7.87-12	8.89-11	4.81-12	2.90-12	7.85-24	3.40-12	1.60-12
0.	1.01-10	4.75-11	1.26-11	3.80-11	9.68-14	3.65-31	9.85-12	5.08-12
9.27-11	3.58-12	1.44-11	5.08-11	4.20-12	4.11-13	1.13-22	2.73-12	1.09-12
4.70-12	4.03-11	5.43-11	1.85-11	2.97-11	2.09-14	2.07-23	4.89-12	2.59-12
9.56-11	6.68-10	8.85-11	2.75-10	1.49-10	1.26-12	3.12-22		
5.36-11	5.18-10	2.99-11	1.79-10	1.16-10	1.00-12	2.66-22	5.20-11	2.70-11
							1.20-09	1.13-10

AIR SCATTERING 2.11 02 ENERGY 7.00 ANGLE 9.00 01 DIST. 1.98 03
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.	1.02-08	0.
4.00 01	0.	0.	0.	0.	0.	0.	1.70-09	1.93-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.39-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.05-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.07-10
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.	9.08-10	1.33-09

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.	8.98-09	0.
4.00 01	0.	0.	0.	0.	0.	0.	1.42-09	1.34-09
6.00 01	0.	0.	0.	0.	0.	0.	3.19-11	1.64-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.16-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	7.12-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.78-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.91-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	9.56-15
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.	7.97-10	1.28-09
	0.	0.	0.	0.	0.	0.	2.02-10	1.29-10

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.	1.41-14
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.	2.45-15
	0.	0.	0.	0.	0.	0.	0.	2.45-15

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.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	7.65-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.33-13
	0.	0.	0.	0.	0.	0.	0.	1.33-13

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.

365544407211 203570755071

AIR SCATTERING 2.11 02 ENERGY 7.00 ANGLE 9.00 01 DIST. 1.98 03
1.50 01 1.18 03 0. 0. 3.18 04 5.00 01 1.20 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.	1.83-09
0.	0.	0.	0.	0.	0.	0.	4.98-10
0.	0.	0.	0.	0.	0.	0.	2.39-10
0.	0.	0.	0.	0.	0.	0.	1.05-10
0.	0.	0.	0.	0.	0.	0.	1.07-11
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.	
							2.97-10

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		
7.53-10	1.45-10	1.68-12	4.08-11	2.64-11	3.39-15	2.68-35	1.69-09	5.52-10
5.20-10	6.99-11	1.23-10	5.26-10	4.11-11	6.09-13	5.41-25	4.49-10	8.83-11
3.32-10	3.17-10	4.78-10	4.82-10	1.27-11	1.76-13	1.35-21	2.37-10	4.10-11
2.36-10	3.08-10	3.53-10	1.84-10	8.38-11	5.61-14	2.68-23	1.67-10	2.00-11
1.62-10	5.85-11	4.05-10	1.88-10	7.19-11	1.43-12	9.02-22	1.03-10	3.02-11
5.94-11	1.33-10	1.85-10	1.06-10	2.85-10	2.45-13	3.84-21	5.03-11	2.16-11
6.91-11	5.83-11	1.37-10	7.26-11	1.47-11	5.31-14	1.09-21	3.36-11	1.43-11
1.69-10	3.89-11	4.25-11	7.37-11	1.30-11	7.03-14	3.96-26	1.85-11	8.54-12
1.41-11	6.15-11	1.37-11	2.56-11	4.77-10	1.76-15	8.05-27	1.14-11	6.80-12
2.26-12	3.47-12	4.25-12	3.00-10	6.12-12	3.28-17	1.08-34	7.78-12	6.89-12
4.09-10	2.79-10	4.22-10	4.02-10	1.93-10	4.98-13	1.55-21		
8.38-11	5.94-11	1.20-10	1.39-10	1.01-10	2.85-13	1.09-21	3.42-10	4.22-11

PHI 45 TO 90 DEGREES

1.15-10	1.43-10	2.56-11	1.01-11	8.43-11	6.65-17	5.24-32	1.85-11	6.78-12
4.46-10	4.02-10	7.01-11	2.08-09	4.53-11	1.13-14	3.47-26	1.00-10	4.92-11
1.68-10	1.54-10	1.53-10	5.54-11	4.09-11	3.69-14	1.78-22	2.77-11	7.74-12
2.41-11	3.31-10	2.12-10	2.06-10	1.01-10	4.97-14	1.70-23	3.07-11	9.64-12
1.04-10	9.19-11	1.52-10	4.24-11	1.08-11	6.73-14	8.93-26	1.87-11	5.82-12
2.79-11	2.46-10	8.39-11	4.49-11	5.17-12	6.74-14	4.82-24	1.82-11	5.71-12
1.56-11	2.90-11	1.45-10	5.95-11	1.38-10	1.89-13	3.36-27	1.03-11	3.31-12
2.51-10	4.80-11	3.52-11	5.41-11	7.78-12	1.83-14	4.94-26	2.48-11	1.48-11
1.22-10	5.56-12	4.12-11	6.09-11	2.16-11	6.85-16	2.83-33	1.29-11	8.89-12
8.59-11	1.59-13	4.17-11	4.32-11	4.48-12	3.44-15	4.13-34	9.13-12	6.92-12
2.58-10	3.09-10	2.31-10	5.05-10	1.11-10	1.18-13	5.38-23		
8.39-11	8.64-11	5.02-11	3.40-10	5.12-11	5.69-14	4.76-23	5.51-11	1.23-11

PHI 90 TO 135 DEGREES

8.45-13	4.55-11	1.04-10	3.24-10	1.16-11	5.47-15	2.17-30	1.23-11	7.05-12
2.50-10	4.42-11	7.23-11	1.65-09	7.15-12	5.00-15	6.02-27	5.77-11	3.53-11
1.49-11	4.07-11	8.01-12	1.51-11	8.62-12	4.84-13	1.43-29	3.89-12	1.56-12
3.51-11	6.56-11	2.70-10	3.49-10	1.21-10	2.96-13	9.63-22	2.33-11	7.80-12
3.99-11	9.56-11	3.04-11	1.95-09	6.00-11	9.05-15	3.09-29	4.88-11	3.80-11
1.66-11	1.30-10	2.55-10	1.09-10	7.24-13	3.96-16	1.23-27	1.82-11	8.50-12
1.52-11	2.31-11	5.99-11	3.47-11	1.34-12	1.47-13	3.31-26	5.00-12	1.90-12
4.56-12	8.78-11	3.22-11	7.63-12	9.92-13	2.29-13	6.50-28	5.96-12	3.16-12
2.26-11	3.19-12	5.38-12	2.26-10	3.29-11	9.68-15	3.25-29	7.17-12	4.52-12
1.63-11	2.54-12	8.53-13	4.26-13	7.43-12	3.75-16	6.68-35	1.57-12	1.32-12
7.98-11	1.13-10	1.88-10	8.35-10	6.08-11	3.39-13	3.14-22		
2.86-11	3.01-11	7.44-11	4.91-10	4.26-11	1.63-13	3.08-22	3.56-11	1.14-11

PHI 135 TO 180 DEGREES

8.72-11	7.54-12	3.34-11	1.55-12	1.88-12	2.08-14	1.36-28	8.48-12	6.85-12
4.91-11	2.36-10	5.91-12	1.23-10	2.16-11	7.28-14	2.34-27	1.87-11	9.85-12
7.35-11	1.62-10	4.12-11	3.51-11	4.70-12	7.00-14	1.42-20	1.61-11	7.21-12
2.24-12	1.11-10	8.82-11	2.61-11	1.35-11	3.86-14	1.03-23	9.24-12	4.35-12
0.	5.52-11	3.46-10	1.10-10	9.15-12	6.49-15	2.59-24	1.62-11	7.59-12
0.	9.37-12	4.29-10	5.67-11	7.56-13	3.35-15	1.62-29	1.54-11	1.29-11
1.49-10	1.37-10	9.42-11	1.00-10	4.36-12	5.04-14	8.57-25	2.39-11	1.29-11
0.	6.96-10	4.52-11	8.53-10	1.20-11	2.12-15	3.72-21	5.34-11	3.58-11
2.94-12	5.04-12	2.81-11	5.16-09	4.69-12	4.63-14	1.17-20	1.05-10	1.02-10
4.07-12	1.48-14	1.08-12	4.82-12	1.52-11	9.45-13	3.38-24	6.64-13	3.55-13
8.36-11	3.62-10	2.25-10	1.22-09	1.76-11	1.29-13	6.80-21		
5.14-11	1.88-10	9.29-11	1.04-09	6.02-12	6.07-14	4.40-21	5.67-11	2.54-11
							7.69-10	9.79-11

AIR SCATTERING 2.12 02 ENERGY 7.00 ANGLE 1.35 02 DIST. 1.98 03
1.25-03 1.07-02 3.20 01 1.97-06

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.	1.61-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.99-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.83-11
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.	1.50-09

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.	2.83-10	1.13-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.35-09
6.00 01	0.	0.	0.	0.	0.	0.	2.86-14	1.51-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.19-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.79-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	6.21-14
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.	1.71-11	1.13-09
	0.	0.	0.	0.	0.	0.	1.71-11	1.06-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	9.46-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.07-14
6.00 01	0.	0.	0.	0.	0.	0.	3.71-14	9.02-14
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.	4.41-14
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.19-14
1.40 02	0.	0.	0.	0.	0.	0.	0.	4.93-11
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.	9.86-15	7.02-11
	0.	0.	0.	0.	0.	0.	9.86-15	5.84-11

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.	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.

203570755071 311351470701

AIR SCATTERING 2.12 02 ENERGY 7.00 ANGLE 1.35 02 DIST. 1.98 03
1.30 01 1.18 03 0. 0. 3.13 04 5.00 01 1.20 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.	1.61-09
0.	0.	0.	0.	0.	0.	0.	2.99-10
0.	0.	0.	0.	0.	0.	0.	1.83-12
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.50-10

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		
8.00-10	1.97-10	1.27-10	7.06-11	8.54-12	1.33-13	4.81-29	1.26-09	1.87-10
1.47-09	1.45-10	5.60-11	4.36-11	4.05-12	5.15-13	1.27-26	3.63-10	8.97-11
7.52-11	1.74-10	1.04-10	6.18-11	7.03-12	3.41-13	1.61-25	3.45-11	7.09-12
1.20-10	2.44-10	1.31-10	6.09-11	6.79-12	8.14-15	9.13-24	2.85-11	1.01-11
1.81-11	8.57-11	5.31-11	5.30-11	5.36-12	3.72-14	3.48-27	9.94-12	3.99-12
1.31-09	1.98-10	1.14-10	3.21-11	5.77-12	3.69-13	3.54-29	1.19-10	1.02-10
5.83-11	2.06-10	1.01-10	1.09-10	2.69-12	1.32-14	1.68-28	2.04-11	1.01-11
2.16-10	7.78-12	7.41-11	1.86-09	1.19-11	1.16-13	2.11-22	5.73-11	3.95-11
1.46-12	7.96-12	7.91-12	2.74-12	5.81-13	5.35-15	8.59-23	8.30-13	3.66-13
0.	0.	8.36-14	9.52-12	3.71-13	4.03-14	6.66-30	1.98-13	1.86-13
6.69-10	2.83-10	1.71-10	5.93-10	1.14-11	3.00-13	7.42-23		
2.94-10	9.72-11	3.36-11	4.92-10	2.58-12	1.36-13	5.82-23	2.01-10	3.24-11

PHI 45 TO 90 DEGREES

2.65-10	1.57-10	1.49-10	4.45-11	9.51-12	8.76-14	2.38-26	1.30-10	9.55-11
9.91-11	1.02-10	1.45-10	1.10-10	8.17-12	5.71-14	6.67-24	2.00-11	5.44-12
6.25-11	7.39-11	9.51-11	8.35-11	5.23-11	8.39-13	4.29-23	1.41-11	3.61-12
3.23-11	1.68-10	5.50-11	1.27-10	9.84-11	1.57-14	3.47-25	1.66-11	7.87-12
7.12-11	1.11-10	1.39-11	3.75-11	9.44-12	8.16-14	9.27-26	1.26-11	6.84-12
1.12-10	1.12-10	9.21-11	8.47-11	4.84-11	5.68-13	1.90-23	1.99-11	7.55-12
4.18-12	3.65-11	1.55-10	1.71-10	3.62-11	1.23-13	3.63-22	1.10-11	4.19-12
2.03-12	2.73-11	4.71-11	4.53-12	1.92-12	3.52-12	1.16-24	8.12-12	4.98-12
1.85-12	3.52-11	9.98-13	2.74-11	7.39-12	8.83-13	3.54-22	2.59-12	1.50-12
0.	2.32-11	2.10-11	3.63-12	6.43-13	1.86-13	1.51-26	1.91-12	1.03-12
9.45-11	1.67-10	1.60-10	1.69-10	7.17-11	1.50-12	1.96-22		
2.49-11	5.78-11	4.15-11	4.49-11	2.80-11	1.03-12	1.34-22	3.24-11	7.77-12

PHI 90 TO 135 DEGREES

1.98-10	1.18-11	1.73-11	3.17-11	4.35-11	2.44-13	8.46-25	1.81-11	1.27-11
5.03-11	2.28-10	5.20-11	6.36-11	1.17-11	7.26-13	9.68-29	1.85-11	8.98-12
3.00-10	1.69-11	1.92-10	3.84-11	5.10-12	2.69-13	3.73-26	3.18-11	1.52-11
3.32-11	4.30-10	1.45-11	5.32-11	4.32-11	1.72-13	2.74-28	2.63-11	1.53-11
3.36-10	1.14-10	6.87-11	6.84-12	1.42-11	7.00-14	8.79-25	3.50-11	2.69-11
6.48-11	1.10-11	5.31-11	3.38-11	6.78-11	4.84-15	7.94-30	8.99-12	4.82-12
1.96-12	3.79-11	2.59-11	1.16-10	4.04-12	7.02-13	2.58-21	5.20-12	1.92-12
0.	2.93-10	8.18-12	3.15-11	7.71-13	8.04-12	4.34-27	1.56-11	1.25-11
0.	3.17-11	5.61-11	1.04-11	9.87-12	4.58-15	6.84-26	3.72-12	1.76-12
0.	4.64-12	1.19-13	1.58-12	2.00-15	8.16-18	1.94-31	2.68-13	2.27-13
1.82-10	3.03-10	1.06-10	9.59-11	3.76-11	2.65-12	8.43-22		
7.71-11	1.25-10	3.90-11	3.32-11	1.55-11	2.35-12	8.42-22	3.55-11	1.22-11

PHI 135 TO 180 DEGREES

6.34-10	1.68-10	7.05-12	6.34-11	5.40-11	8.75-15	2.38-28	6.13-11	3.11-11
1.23-10	2.46-11	9.89-11	1.75-11	2.73-11	4.43-14	3.04-23	1.49-11	5.13-12
5.69-11	7.89-11	7.35-11	2.82-11	2.24-12	9.03-16	1.10-28	1.14-11	3.57-12
7.24-12	2.61-10	3.58-11	1.80-11	5.55-12	3.83-14	4.96-26	1.52-11	7.69-12
1.22-09	2.86-11	2.14-11	1.32-11	4.19-12	7.62-15	1.47-26	1.00-10	9.78-11
0.	6.03-11	1.65-11	2.09-12	1.06-11	1.50-14	1.91-25	3.72-12	2.84-12
0.	3.08-11	8.51-13	5.02-11	3.43-12	4.69-14	1.19-23	2.61-12	1.33-12
2.01-13	1.67-11	1.02-11	4.18-12	1.33-11	3.55-16	4.07-23	1.43-12	8.49-13
0.	3.89-13	9.54-11	3.72-11	4.58-12	2.30-13	7.85-32	3.88-12	2.70-12
0.	2.90-13	8.94-11	1.09-11	3.91-16	4.04-12	2.38-29	3.13-12	1.64-12
2.89-10	1.50-10	8.04-11	4.75-11	1.84-11	3.24-13	2.00-23		
2.14-10	5.56-11	2.25-11	1.60-11	6.48-12	2.96-13	1.55-23	3.44-11	1.75-11
							4.77-10	6.90-11

AIR SCATTERING 2.13 02 ENERGY 7.00 ANGLE 1.80 02 DIST. 1.98 03
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.	2.00-08
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.	1.21-09

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.	1.39-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.24-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.99-13
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.	8.40-10
	0.	0.	0.	0.	0.	0.	0.	8.00-11

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	7.16-19	1.18-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.07-11
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.	4.32-20	7.68-11
	0.	0.	0.	0.	0.	0.	4.32-20	3.19-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	9.26-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	7.62-11
6.00 01	0.	0.	0.	0.	0.	0.	9.92-13	6.33-12
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.	2.64-13	7.08-11
	0.	0.	0.	0.	0.	0.	2.64-13	2.57-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	7.85-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	8.59-12
6.00 01	0.	0.	0.	0.	0.	0.	0.	4.70-12
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.10-12
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.	4.96-11
	0.	0.	0.	0.	0.	0.	0.	2.47-11

311351470701 375673145471

AIR SCATTERING 2.13 02 ENERGY 7.00 ANGLE 1.80 02 DIST. 1.98 03
1.40 01 1.18 03 0. 0. 3.14 04 5.00 01 1.20 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.	2.00-09
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.	1.21-10

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		
4.37-10	1.91-10	5.90-11	9.36-11	1.71-11	7.86-14	4.53-26	1.44-09	1.39-10
1.12-10	7.45-11	1.91-10	7.21-11	2.50-11	2.47-14	1.46-25	2.18-11	6.29-12
9.70-11	2.06-10	8.72-10	1.55-10	1.35-11	5.94-13	8.62-23	4.93-11	2.57-11
2.42-10	8.36-11	7.87-11	3.83-11	2.24-12	6.15-14	7.03-22	2.68-11	1.69-11
5.31-10	8.59-11	1.23-11	1.37-11	7.06-12	1.34-14	4.51-24	4.76-11	4.19-11
6.33-11	8.15-12	1.71-11	1.12-11	7.04-13	5.01-13	2.62-26	6.26-12	2.94-12
4.68-13	1.01-10	8.34-11	8.56-12	1.93-12	2.19-14	2.71-24	7.95-12	4.12-12
8.41-13	1.17-10	6.64-11	5.42-11	1.24-12	4.73-14	4.05-26	9.16-12	3.48-12
3.32-12	2.50-09	1.24-11	9.94-12	2.23-12	2.33-16	5.60-25	1.26-10	1.24-10
0.	0.	2.43-12	3.78-12	9.16-14	3.19-17	3.88-22	1.54-13	9.68-14
2.55-10	6.21-10	3.47-10	9.53-11	1.24-11	2.96-13	2.77-22		
1.26-10	4.32-10	2.05-10	3.90-11	4.54-12	1.79-13	2.15-22	1.49-10	

PHI 45 TO 90 DEGREES

8.13-10	1.40-10	1.33-10	5.38-11	9.23-12	8.48-14	5.71-31	1.96-10	6.42-11
2.39-10	2.00-10	8.66-11	7.78-11	2.09-11	5.12-13	1.88-28	3.68-11	1.14-11
2.40-11	3.17-11	1.00-10	3.42-11	4.97-12	5.27-14	3.74-21	7.46-12	1.73-12
6.43-11	4.62-11	6.72-11	6.84-11	8.66-12	1.43-15	1.89-22	1.11-11	4.87-12
3.10-11	3.05-11	2.12-11	3.59-12	1.27-11	1.70-09	3.95-30	2.19-11	1.72-11
9.05-12	8.55-13	6.77-12	1.65-11	6.22-12	1.99-16	1.27-30	1.40-12	7.28-13
2.63-11	9.58-10	2.79-11	2.50-11	1.19-11	7.54-14	8.36-25	5.15-11	3.61-11
0.	6.28-11	5.79-11	3.18-11	6.06-13	1.47-15	4.08-29	5.64-12	2.43-12
0.	7.00-12	1.16-11	1.08-11	1.34-09	7.22-10	1.44-22	2.56-11	2.47-11
0.	4.75-12	0.	2.86-12	1.23-12	7.95-17	1.12-24	3.11-13	2.41-13
1.33-10	4.03-10	1.03-10	7.04-11	2.49-10	4.20-10	1.08-21		
3.94-11	2.36-10	2.79-11	2.18-11	2.33-10	4.20-10	1.06-21	5.06-11	1.49-11

PHI 90 TO 135 DEGREES

2.59-10	5.83-11	2.62-11	9.33-12	6.24-11	3.93-14	0.	1.18-10	4.08-11
3.01-10	3.28-10	1.41-10	1.46-10	1.14-11	5.00-13	9.09-28	5.57-11	1.92-11
3.21-10	9.34-11	1.08-10	2.51-10	6.19-11	4.92-13	2.75-24	4.05-11	1.73-11
5.88-11	2.58-10	5.35-11	1.23-11	7.19-11	1.39-12	1.32-30	2.05-11	1.29-11
2.57-11	1.13-10	1.36-11	1.13-10	6.66-12	4.92-13	1.59-25	1.05-11	5.01-12
5.65-12	2.50-12	8.50-12	8.64-11	4.42-11	4.66-13	7.08-22	3.16-12	1.21-12
1.85-13	5.02-11	2.15-11	2.88-11	6.13-12	2.31-13	7.19-24	3.83-12	2.13-12
0.	1.43-11	1.32-11	1.10-10	5.12-11	5.85-16	2.15-22	4.09-12	2.37-12
0.	1.32-11	4.73-12	3.26-12	2.17-13	2.94-14	1.32-30	8.79-13	3.18-13
0.	3.47-13	0.	1.45-11	1.56-10	4.92-16	2.36-25	2.34-12	2.11-12
1.78-10	2.12-10	8.75-11	1.71-10	7.96-11	9.20-13	1.83-22		
6.19-11	9.70-11	2.48-11	5.44-11	2.75-11	5.01-13	1.34-22	3.92-11	8.19-12

PHI 135 TO 180 DEGREES

4.73-10	3.97-11	6.64-11	3.45-11	1.65-12	1.30-13	9.93-33	1.19-10	4.49-11
5.15-10	9.86-11	1.85-10	1.39-10	4.43-12	1.31-13	8.59-26	5.55-11	1.82-11
1.05-10	2.36-10	2.63-10	5.60-11	2.33-10	1.29-13	4.51-25	3.33-11	1.33-11
1.58-10	4.39-11	3.14-11	1.70-11	3.54-11	5.16-13	5.70-29	1.69-11	8.04-12
1.46-13	9.00-11	1.05-11	9.74-12	1.40-11	1.49-14	2.70-28	5.22-12	4.39-12
0.	7.93-11	2.97-11	4.30-11	9.05-13	3.88-14	1.00-26	5.79-12	2.50-12
3.10-14	3.29-11	4.72-11	1.52-11	4.24-13	3.05-14	3.95-24	3.47-12	1.74-12
2.32-12	5.55-11	2.68-11	3.29-11	1.19-12	1.18-14	2.19-29	4.49-12	1.97-12
0.	6.97-11	1.39-10	6.61-11	1.22-12	3.65-14	2.27-24	9.26-12	5.06-12
0.	2.82-12	2.45-11	1.62-11	6.56-10	1.83-14	5.38-23	9.78-12	8.88-12
1.98-10	1.64-10	1.71-10	8.05-11	1.17-10	2.63-13	5.07-24		
5.59-11	6.27-11	5.61-11	2.12-11	7.50-11	1.60-13	3.51-24	3.76-11	6.99-12
							4.34-10	6.66-11

AIR SCATTERING 2.14 02 ENERGY 4.00 ANGLE 1.00 DIST. 1.98 03
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	2.52-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	2.43-07	3.62-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	3.58-07	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	4.72-07	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.	4.98-07	0.
1.40 02	0.	0.	0.	0.	0.	0.	2.76-07	0.
1.60 02	0.	0.	0.	0.	0.	0.	2.17-07	1.59-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.54-06
	1.52-07	4.23-08	6.28-08	9.52-08	0.	1.54-07	2.74-07	1.20-07

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	1.60-06	0.	0.	0.	0.	1.43-09	0.	0.
4.00 01	0.	1.55-07	2.30-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	2.28-07	0.	0.	0.	1.90-10
8.00 01	0.	0.	0.	0.	0.	3.01-07	0.	5.98-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.06-11
1.20 02	0.	0.	0.	0.	0.	0.	3.17-07	9.60-11
1.40 02	0.	0.	0.	0.	0.	0.	1.76-07	7.24-10
1.60 02	0.	0.	0.	0.	0.	0.	1.38-07	1.03-07
1.80 02	0.	0.	0.	0.	0.	1.99-13	4.29-12	9.83-07
	9.66-08	2.69-08	4.00-08	6.06-08	0.	9.82-08	1.74-07	7.75-08
	2.35-08	2.69-08	4.00-08	6.06-08	0.	9.81-08	1.16-07	2.44-08

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.	2.56-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.74-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	7.85-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	4.00-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.82-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.31-11
1.60 02	0.	0.	0.	0.	0.	9.61-13	2.01-12	2.67-09
1.80 02	0.	0.	0.	0.	0.	0.	2.53-11	3.77-09
	0.	0.	0.	0.	0.	1.67-13	1.87-12	5.46-09
	0.	0.	0.	0.	0.	1.67-13	8.42-13	4.47-09

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.	4.19-13
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.98-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.67-18
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.08-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.34-10
1.40 02	0.	0.	0.	0.	0.	0.	9.87-12	2.13-10
1.60 02	0.	0.	0.	0.	0.	2.54-15	3.57-12	7.23-10
1.80 02	0.	0.	0.	0.	1.52-14	2.42-13	2.51-12	1.01-08
	0.	0.	0.	0.	9.20-16	1.50-14	3.40-12	8.44-10
	0.	0.	0.	0.	7.49-16	1.45-14	1.92-12	2.74-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.14-09	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.76-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.29-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.15-13
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.01-09
1.40 02	0.	0.	0.	0.	0.	0.	3.70-12	5.70-10
1.60 02	0.	0.	0.	0.	0.	5.25-12	2.25-10	1.98-09
1.80 02	0.	0.	0.	0.	0.	2.67-10	4.96-14	1.28-08
	0.	0.	0.	0.	0.	8.60-11	4.00-11	1.87-09
	0.	0.	0.	0.	0.	7.06-11	3.72-11	6.02-10

375873145471 350510746165

AIR SCATTERING 2.14 02 ENERGY 4.00 ANGLE 1.00 DIST. 1.98 03
2.80 01 1.16 03 0. 0. 3.43 04 5.00 01 1.20 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.	3.52-06
0.	0.	0.	0.	0.	0.	0.	4.12-07
0.	0.	0.	0.	0.	0.	0.	1.43-07
0.	0.	0.	0.	0.	0.	0.	9.45-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	4.98-08
0.	0.	0.	0.	0.	0.	0.	2.76-08
0.	0.	0.	0.	0.	0.	0.	3.45-08
0.	0.	0.	0.	0.	0.	0.	1.23-07
0.	0.	0.	0.	0.	0.	0.	3.90-07

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			
4.60-09	3.94-09	3.06-10	7.56-11	6.67-12	2.29-16	3.75-26	2.24-06	5.46-07	
7.46-10	5.74-11	4.39-10	5.64-10	1.00-11	2.95-15	3.13-24	2.62-07	1.85-07	
1.54-10	3.51-11	5.55-10	1.10-10	7.57-12	6.51-14	4.99-22	9.12-08	9.11-08	
2.05-10	4.02-10	2.71-10	1.63-11	4.46-11	1.01-14	4.74-21	6.02-08	6.01-08	
4.20-11	4.78-11	2.06-10	1.79-10	4.36-11	5.81-14	7.82-23	1.24-11	4.86-12	
3.98-10	2.14-10	2.54-10	5.56-11	2.85-12	1.81-12	4.71-27	3.94-11	1.45-11	
8.35-11	2.48-10	2.10-10	4.81-10	1.18-11	1.44-12	5.33-25	3.17-08	3.17-08	
9.52-11	2.07-10	6.25-10	3.97-10	8.53-11	1.05-14	5.81-21	1.77-08	1.76-08	
4.06-11	1.84-10	1.26-10	1.50-10	6.11-11	1.17-16	9.97-26	2.21-08	1.60-08	
1.45-10	1.50-10	4.47-11	3.36-10	5.15-13	3.51-17	5.37-22	7.87-08	2.24-08	
6.60-10	6.10-10	6.70-10	4.87-10	6.40-11	8.18-13	3.27-21			
2.24-10	2.55-10	1.94-10	1.73-10	2.27-11	7.32-13	2.19-21	2.48-07	5.66-08	

PHI 45 TO 90 DEGREES

1.00-09	3.17-10	9.91-11	2.72-11	4.24-12	1.32-12	9.34-25	7.45-11	5.66-11	
5.96-10	3.58-11	3.01-10	1.09-10	3.61-12	3.70-14	1.27-22	2.09-09	2.05-09	
5.78-10	6.20-10	5.25-11	1.59-10	7.89-12	8.59-13	2.16-24	7.46-11	3.15-11	
1.66-09	3.25-10	2.34-10	2.41-10	2.43-10	3.04-12	1.59-23	1.86-10	1.03-10	
4.37-11	9.20-11	8.30-10	6.94-10	1.09-09	7.06-13	7.75-21	4.94-11	2.52-11	
3.25-11	1.77-10	1.30-10	7.28-11	6.43-10	2.90-14	1.08-19	2.35-11	9.13-12	
3.05-10	4.95-10	8.85-10	1.41-10	2.70-11	1.11-13	7.45-23	6.20-11	1.65-11	
1.66-10	2.71-10	1.83-10	2.17-10	2.20-11	1.32-13	1.53-25	2.87-11	9.37-12	
3.36-11	5.32-10	5.11-10	1.27-09	2.12-11	1.77-14	4.34-23	2.67-10	1.55-10	
3.21-10	3.02-10	7.95-11	1.95-10	3.19-12	1.64-17	1.57-29	3.39-10	1.62-10	
1.04-09	6.87-10	7.47-10	6.11-10	4.02-10	1.51-12	2.01-20			
4.72-10	1.68-10	2.77-10	2.33-10	3.56-10	1.11-12	2.00-20	5.56-10	3.59-10	

PHI 90 TO 135 DEGREES

9.50-10	2.63-11	1.64-10	3.63-12	3.35-10	5.93-16	1.61-26	6.60-11	4.75-11	
2.07-10	1.65-10	3.17-10	4.03-11	1.16-11	1.08-14	2.27-20	2.67-11	1.00-11	
3.65-10	3.34-10	1.52-10	8.29-11	1.37-11	3.96-13	1.42-25	3.90-11	1.34-11	
1.57-09	7.50-11	4.00-11	7.73-10	1.90-11	2.94-14	2.67-26	1.11-10	6.03-11	
1.44-10	2.02-10	3.82-11	5.76-10	4.88-13	8.09-15	7.48-22	2.54-11	9.35-12	
1.32-10	2.36-11	7.07-10	1.15-10	2.49-11	2.21-16	4.42-23	2.94-11	1.35-11	
7.43-09	8.72-11	2.02-10	3.39-10	1.46-11	4.76-14	9.69-25	4.70-10	4.32-10	
1.93-10	2.87-10	1.42-10	2.10-10	7.20-11	2.03-13	4.54-22	4.74-11	1.57-11	
4.18-10	9.29-11	3.91-11	1.04-10	5.63-11	1.60-15	2.31-25	8.98-11	3.62-11	
1.80-10	4.65-10	1.03-10	9.76-11	2.22-11	6.61-15	9.10-26	8.38-10	3.47-10	
3.31-09	3.32-10	3.64-10	5.92-10	7.13-11	1.88-13	4.19-21			
2.37-09	8.52-11	1.08-10	2.13-10	2.62-11	9.61-14	3.94-21	2.97-10	1.44-10	

PHI 135 TO 180 DEGREES

5.99-09	1.86-10	4.09-12	6.05-12	1.21-11	2.51-13	7.21-35	5.95-10	3.21-10	
2.69-09	7.41-11	8.22-11	8.71-11	2.71-11	1.45-11	1.40-23	1.67-10	1.25-10	
3.61-10	3.30-10	2.85-11	4.08-11	3.69-11	1.87-14	6.30-22	4.94-11	1.90-11	
1.44-09	1.35-10	1.00-10	5.99-11	3.05-11	1.36-13	1.90-23	9.50-11	5.33-11	
4.40-10	4.29-10	1.02-10	3.80-10	9.36-12	5.75-14	1.90-18	1.54-10	1.05-10	
2.73-10	6.99-11	6.36-11	6.20-11	1.12-10	1.35-13	3.35-19	2.27-11	1.12-11	
4.93-10	1.89-10	9.09-11	3.80-11	7.61-12	4.53-16	6.83-22	1.20-10	7.95-11	
9.26-11	2.90-10	1.17-10	1.09-09	4.88-10	9.94-14	5.28-21	8.70-11	3.15-11	
1.07-08	3.36-10	9.17-10	8.75-11	3.32-11	2.02-13	6.22-27	8.61-10	6.31-10	
4.52-10	3.38-10	2.11-10	3.60-11	1.27-10	1.02-12	4.29-27	1.12-09	5.18-10	
3.59-09	4.60-10	3.16-10	4.44-10	1.92-10	2.74-12	3.90-19			
1.88-09	1.13-10	1.43-10	2.16-10	1.31-10	2.53-12	3.88-19	4.19-10	1.28-10	
							3.92-07	8.90-08	

AIR SCATTERING 2.15 02 ENERGY 4.00 ANGLE 1.50 01 DIST. 1.98 03
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	3.60-08	7.06-08	1.35-08	0.	0.	0.	0.	0.
4.00 01	0.	0.	1.59-08	1.42-08	0.	0.	0.	0.
6.00 01	0.	0.	0.	4.53-09	1.59-08	0.	0.	0.
8.00 01	0.	0.	0.	0.	1.71-09	1.33-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	1.14-08	0.	0.
1.00 02	0.	0.	0.	0.	0.	4.93-09	8.88-09	0.
1.20 02	0.	0.	0.	0.	0.	0.	1.95-08	0.
1.40 02	0.	0.	0.	0.	0.	0.	1.91-08	0.
1.60 02	0.	0.	0.	0.	0.	0.	1.88-09	2.53-08
1.80 02	0.	0.	0.	0.	0.	0.	0.	3.96-09
	2.17-09	4.26-09	3.58-09	3.68-09	4.78-09	7.17-09	1.33-08	4.64-09

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	2.29-08	4.50-08	8.60-09	0.	0.	0.	0.	0.
4.00 01	0.	0.	1.01-08	9.07-09	6.51-09	0.	0.	2.71-09
6.00 01	0.	0.	0.	2.88-09	1.01-08	0.	1.12-08	1.76-10
8.00 01	0.	0.	0.	0.	1.09-09	8.44-09	0.	6.09-09
9.00 01	0.	0.	0.	0.	0.	7.28-09	0.	4.13-11
1.00 02	0.	0.	0.	0.	0.	3.14-09	5.65-09	2.97-10
1.20 02	0.	0.	0.	0.	0.	0.	1.24-08	8.71-10
1.40 02	0.	0.	0.	0.	0.	0.	1.22-08	1.27-09
1.60 02	0.	0.	0.	0.	0.	7.64-13	1.32-09	2.01-08
1.80 02	0.	0.	0.	0.	0.	9.74-14	1.40-10	4.82-09
	1.38-09	2.71-09	2.28-09	2.34-09	4.17-09	4.56-09	1.15-08	6.96-09
	2.64-10	5.61-10	6.29-10	7.77-10	1.56-09	1.27-09	3.33-09	2.06-09

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.	1.66-14
8.00 01	0.	0.	0.	0.	0.	0.	0.	4.33-11
9.00 01	0.	0.	0.	0.	0.	0.	1.11-09	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	4.71-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	9.17-11
1.40 02	0.	0.	0.	0.	0.	0.	8.52-12	8.08-10
1.60 02	0.	0.	0.	0.	0.	2.54-14	2.25-11	4.47-10
1.80 02	0.	0.	0.	0.	0.	6.42-11	4.85-12	1.92-09
	0.	0.	0.	0.	0.	3.87-12	1.99-10	5.34-10
	0.	0.	0.	0.	0.	3.54-12	1.93-10	1.33-10

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.	8.40-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.28-12
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	9.73-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.22-11
1.40 02	0.	0.	0.	0.	0.	0.	2.62-12	6.96-11
1.60 02	0.	0.	0.	0.	0.	1.57-12	1.45-13	3.16-09
1.80 02	0.	0.	0.	0.	0.	1.19-13	7.54-13	5.75-09
	0.	0.	0.	0.	0.	2.80-13	7.69-13	9.62-10
	0.	0.	0.	0.	0.	2.73-13	5.54-13	5.95-10

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.	2.89-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.64-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	7.01-14
1.00 02	0.	0.	0.	0.	0.	0.	0.	5.01-14
1.20 02	0.	0.	0.	0.	0.	0.	0.	6.11-14
1.40 02	0.	0.	0.	0.	0.	0.	0.	5.82-11
1.60 02	0.	0.	0.	0.	9.00-13	1.53-10	5.50-10	
1.80 02	0.	0.	0.	0.	3.93-14	2.63-10	1.04-09	
	0.	0.	0.	0.	1.59-13	4.24-11	2.68-10	
	0.	0.	0.	0.	1.56-13	3.09-11	9.48-11	

350510746165 175054170135

AIR SCATTERING 2.15 02 ENERGY 4.00 ANGLE 1.50 01 DIST. 1.98 03
2.20 01 1.17 03 0. 0. 3.44 04 5.00 01 1.20 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.	1.15-07
0.	0.	0.	0.	0.	0.	0.	1.53-08
0.	0.	0.	0.	0.	0.	0.	5.77-09
0.	0.	0.	0.	0.	0.	0.	3.08-09
0.	0.	0.	0.	0.	0.	0.	2.29-09
0.	0.	0.	0.	0.	0.	0.	1.87-09
0.	0.	0.	0.	0.	0.	0.	1.95-09
0.	0.	0.	0.	0.	0.	0.	1.91-09
0.	0.	0.	0.	0.	0.	0.	2.22-09
0.	0.	0.	0.	0.	0.	0.	3.17-10
0.	0.	0.	0.	0.	0.	0.	
							1.44-08

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		
1.69-09	5.09-11	1.50-11	1.40-10	1.52-11	9.58-17	9.93-27	7.33-08	9.98-09
3.54-10	8.98-11	3.05-10	1.17-10	3.42-12	1.00-15	2.78-30	1.16-08	2.95-09
1.16-09	6.58-11	3.55-11	5.59-11	6.31-12	1.51-13	1.20-23	4.88-09	1.61-09
2.37-10	2.39-10	1.79-10	3.71-10	9.54-12	2.00-13	7.67-24	2.48-09	8.33-10
3.00-10	7.52-10	5.29-11	1.05-10	7.83-12	1.64-14	4.53-24	1.51-09	7.28-10
2.05-09	1.21-08	3.96-10	9.48-11	1.18-11	6.70-15	4.54-23	1.79-09	7.43-10
1.25-09	4.61-09	7.09-10	6.86-10	1.22-11	1.73-14	3.33-19	1.58-09	3.93-10
9.80-10	5.23-10	1.39-10	1.43-10	7.26-12	2.81-14	1.07-21	1.40-09	2.69-10
5.96-10	8.44-10	1.46-10	8.24-10	1.47-10	5.85-15	1.70-22	1.82-09	2.18-10
8.85-11	2.56-10	2.22-10	4.35-11	7.01-12	4.40-15	2.84-20	4.20-10	5.29-11
1.73-09	4.16-09	5.07-10	6.07-10	4.15-11	1.24-13	1.11-19		
4.66-10	3.38-09	2.05-10	2.75-10	2.22-11	7.50-14	1.08-19	1.03-08	9.94-10

PHI 45 TO 90 DEGREES

2.86-09	1.06-10	1.99-11	5.89-10	6.33-12	3.99-12	3.19-26	1.85-10	1.38-10
2.50-09	1.54-10	2.02-11	3.38-11	9.96-12	9.79-17	6.74-28	1.57-10	7.10-11
4.63-10	2.28-11	2.23-10	1.21-10	1.72-11	2.05-14	9.70-28	3.60-11	1.50-11
6.52-10	3.79-11	3.16-11	4.14-11	3.09-11	2.04-12	4.27-25	4.57-11	2.61-11
3.31-10	1.78-10	2.89-11	3.20-11	3.58-11	1.85-16	5.87-24	1.39-10	1.11-10
7.02-10	4.98-10	7.83-10	1.34-10	3.32-11	3.00-13	8.56-26	1.19-10	4.35-11
1.14-09	9.44-10	9.45-11	6.66-11	6.29-12	6.05-14	9.16-24	1.13-10	6.66-11
3.23-10	1.77-10	1.52-10	3.73-10	3.87-11	8.78-14	2.83-20	1.01-10	3.19-11
1.73-10	5.02-10	2.94-10	1.00-10	2.49-11	3.88-14	5.96-24	7.53-11	1.72-11
5.05-11	1.87-10	1.01-09	1.81-10	9.80-12	3.13-15	9.14-26	2.04-10	7.12-11
1.61-09	6.23-10	3.98-10	2.65-10	4.60-11	1.02-12	7.52-21		
4.52-10	2.38-10	1.23-10	8.12-11	1.18-11	7.55-13	6.66-21	1.97-10	4.07-11

PHI 90 TO 135 DEGREES

9.94-10	4.38-11	2.62-10	1.15-11	3.56-09	1.24-15	5.29-23	1.10-10	7.06-11
4.05-10	1.48-10	5.70-11	2.95-11	1.12-11	1.31-15	8.48-25	3.16-11	1.92-11
7.10-11	2.01-10	2.42-10	7.25-11	1.21-11	2.35-13	1.92-27	2.53-11	8.89-12
4.23-10	1.30-10	2.86-10	2.29-11	4.37-12	1.41-15	2.25-24	3.74-11	1.75-11
2.45-10	3.33-10	8.44-11	2.06-10	4.21-10	2.12-14	7.90-27	3.69-11	1.48-11
3.31-11	5.54-11	2.48-10	1.03-10	1.94-10	1.67-14	2.28-21	2.16-11	9.56-12
1.12-10	3.76-10	2.57-10	1.02-10	1.86-11	1.09-13	1.05-23	2.99-11	8.91-12
1.02-10	5.94-10	8.96-10	1.34-10	1.01-11	6.99-13	2.33-22	5.70-11	2.70-11
3.27-11	2.04-10	7.34-10	7.23-11	1.04-10	9.18-14	2.40-20	2.83-10	2.29-10
8.11-11	9.53-10	3.09-10	5.41-11	1.37-10	2.38-15	1.41-28	5.08-10	4.37-10
4.08-10	5.66-10	7.09-10	1.71-10	3.63-10	3.07-13	4.64-21		
1.21-10	1.75-10	2.57-10	4.83-11	2.31-10	1.90-13	4.25-21	1.46-10	5.05-11

PHI 135 TO 180 DEGREES

7.22-10	8.01-12	2.39-11	4.88-09	1.36-11	5.40-15	5.44-22	1.18-10	8.29-11
3.53-10	4.77-10	9.54-11	1.78-11	4.89-12	1.66-13	2.57-21	6.41-11	3.21-11
2.46-10	5.62-11	2.31-10	1.69-11	3.87-12	2.35-14	1.84-26	3.57-11	1.64-11
8.83-10	1.18-10	6.59-11	1.68-11	4.82-11	2.29-15	1.71-22	5.97-11	4.02-11
1.05-10	2.40-10	1.66-10	4.42-11	2.20-12	1.66-15	5.81-28	1.96-11	9.30-12
2.03-11	1.11-10	4.43-11	1.54-11	3.38-10	1.84-16	8.08-25	1.06-11	4.68-12
1.85-10	8.81-10	1.12-10	2.95-11	1.12-10	6.34-14	2.77-25	4.73-11	2.32-11
3.40-10	7.33-11	6.00-11	2.80-10	9.84-11	9.46-13	2.98-25	3.45-11	1.24-11
1.11-10	4.92-10	2.72-10	1.20-10	1.01-11	9.70-12	5.81-24	9.24-11	3.35-11
8.85-11	8.68-11	8.11-11	7.77-11	3.48-10	1.23-14	3.80-33	1.25-10	7.33-11
6.56-10	5.95-10	2.42-10	4.27-10	1.63-10	1.99-12	5.37-22		
2.39-10	2.43-10	7.45-11	2.95-10	9.18-11	1.66-12	4.83-22	1.01-10	2.06-11
							1.69-08	1.59-09

AIR SCATTERING 2.16 02 ENERGY 4.00 ANGLE 3.00 01 DIST 1.98 03
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.	5.89-09	3.02-08	1.23-08	0.	0.	0.	0.
4.00 01	0.	0.	0.	7.14-09	8.08-09	0.	0.	0.
6.00 01	0.	0.	0.	0.	3.80-09	4.87-09	0.	0.
8.00 01	0.	0.	0.	0.	0.	5.89-09	6.37-10	0.
9.00 01	0.	0.	0.	0.	0.	0.	9.34-09	0.
1.00 02	0.	0.	0.	0.	0.	0.	8.44-09	0.
1.20 02	0.	0.	0.	0.	0.	0.	7.56-09	0.
1.40 02	0.	0.	0.	0.	0.	0.	2.52-09	5.12-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.51-09
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	3.55-10	1.82-09	1.98-09	2.41-09	3.22-09	6.44-09	1.63-09

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.	3.75-09	1.92-08	7.82-09	0.	0.	0.	0.
4.00 01	0.	0.	0.	4.54-09	5.14-09	0.	0.	3.65-10
6.00 01	0.	0.	0.	0.	2.42-09	3.10-09	0.	0.
8.00 01	0.	0.	0.	0.	0.	3.75-09	8.94-10	5.64-11
9.00 01	0.	0.	0.	0.	0.	0.	5.95-09	1.37-09
1.00 02	0.	0.	0.	0.	0.	0.	5.37-09	7.15-10
1.20 02	0.	0.	0.	0.	0.	0.	5.67-09	7.94-10
1.40 02	0.	0.	0.	0.	0.	0.	1.70-09	7.30-09
1.60 02	0.	0.	0.	0.	0.	5.35-11	3.46-11	3.38-09
1.80 02	0.	0.	0.	0.	0.	1.52-11	3.57-11	2.37-10
	0.	2.26-10	1.16-09	1.26-09	1.54-09	2.06-09	4.57-09	3.25-09
	0.	8.53-11	2.25-10	2.87-10	3.82-10	4.27-10	5.99-10	5.33-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	9.06-10	0.	3.60-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.18-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.13-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	7.82-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.95-11
1.40 02	0.	0.	0.	0.	0.	0.	2.93-11	7.01-10
1.60 02	0.	0.	0.	0.	0.	1.11-16	5.53-15	2.76-10
1.80 02	0.	0.	0.	0.	0.	2.16-10	1.61-12	3.34-10
	0.	0.	0.	0.	0.	1.70-10	7.88-12	4.26-10
	0.	0.	0.	0.	0.	1.58-10	7.78-12	1.22-10

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.	3.40-12
9.00 01	0.	0.	0.	0.	0.	0.	0.	6.32-14
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	8.49-11	8.03-10
1.40 02	0.	0.	0.	0.	0.	0.	1.12-11	2.59-09
1.60 02	0.	0.	0.	0.	0.	0.	8.05-11	7.36-11
1.80 02	0.	0.	0.	0.	0.	0.	1.98-13	2.37-09
	0.	0.	0.	0.	0.	0.	4.47-11	1.11-09
	0.	0.	0.	0.	0.	0.	3.11-11	7.01-10

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.	1.62-10
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.	1.44-14
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.45-14
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.43-10
1.80 02	0.	0.	0.	0.	0.	1.37-13	0.	1.84-10
	0.	0.	0.	0.	0.	8.29-15	0.	7.90-11
	0.	0.	0.	0.	0.	8.29-15	0.	4.94-11

175054170135 235305061635

AIR SCATTERING 2.16 02 ENERGY 4.00 ANGLE 3.00 01 DIST. 1.98 03
2.20 01 1.17 03 0. 0. 3.41 04 5.00 01 1.20 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.	2.78-08
0.	0.	0.	0.	0.	0.	0.	4.87-09
0.	0.	0.	0.	0.	0.	0.	1.92-09
0.	0.	0.	0.	0.	0.	0.	1.24-09
0.	0.	0.	0.	0.	0.	0.	9.34-10
0.	0.	0.	0.	0.	0.	0.	8.44-10
0.	0.	0.	0.	0.	0.	0.	7.56-10
0.	0.	0.	0.	0.	0.	0.	6.62-10
0.	0.	0.	0.	0.	0.	0.	1.21-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	4.19-09

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		
2.15-09	1.42-12	2.42-10	5.29-11	1.62-11	6.34-16	0.	1.78-08	2.77-09
8.36-10	1.98-09	2.30-10	2.05-11	8.59-12	1.26-13	2.90-30	3.26-09	6.76-10
4.64-10	1.60-10	1.21-10	1.13-10	2.84-12	4.06-15	1.33-20	1.26-09	3.15-10
6.14-10	2.37-10	6.98-10	1.24-10	3.30-11	2.21-13	1.41-23	9.08-10	2.05-10
7.30-10	2.70-10	3.18-10	4.57-11	7.33-12	1.53-15	3.96-23	7.66-10	2.10-10
5.90-10	1.35-10	3.11-10	5.43-11	4.09-10	2.15-14	1.80-24	6.48-10	1.70-10
4.33-10	3.62-10	2.16-10	7.86-10	2.34-11	1.24-13	1.82-21	6.87-10	1.17-10
6.01-10	6.15-10	3.06-10	7.80-11	2.10-11	2.09-13	2.21-26	8.22-10	1.47-10
5.71-10	2.69-10	3.82-10	3.55-10	6.46-11	2.51-13	1.89-22	3.44-10	9.23-11
1.02-10	4.50-10	1.09-10	6.42-10	9.02-11	1.40-12	1.77-26	6.13-11	2.11-11
1.23-09	8.91-10	6.48-10	4.72-10	1.16-10	3.23-13	4.17-21		
2.52-10	3.41-10	2.09-10	1.91-10	6.86-11	1.42-13	3.58-21	3.02-09	2.39-10

PHI 45 TO 90 DEGREES

1.66-09	1.83-10	4.34-10	2.05-10	1.07-11	7.13-16	4.28-21	1.20-10	5.89-11
3.73-10	1.92-10	2.99-10	6.96-11	1.60-11	2.05-12	3.94-22	2.48-10	1.84-10
1.68-10	6.07-10	5.08-10	4.09-11	6.85-12	2.74-13	2.48-19	4.48-11	1.44-11
3.23-10	1.35-10	1.73-10	1.57-10	3.35-11	2.37-14	4.61-24	4.86-11	2.15-11
2.17-10	1.51-08	3.95-11	9.46-11	3.37-11	2.00-14	1.69-24	5.68-10	5.38-10
2.27-10	2.10-10	1.56-10	2.72-10	7.69-11	1.56-13	2.06-27	3.05-11	1.10-11
2.02-10	7.23-11	7.12-11	1.88-10	1.06-11	3.72-13	2.99-24	2.33-11	7.08-12
1.69-10	1.31-10	3.41-10	5.83-10	7.62-11	1.45-13	1.86-25	9.17-11	2.75-11
9.96-10	3.31-10	4.78-10	2.07-10	3.54-11	1.42-12	9.12-24	1.09-10	5.55-11
2.36-10	1.08-10	2.43-10	4.55-11	1.56-10	5.96-14	1.25-28	9.65-11	4.86-11
6.90-10	3.03-09	5.15-10	4.06-10	7.47-11	8.78-13	6.62-20		
1.84-10	2.60-09	1.50-10	1.45-10	2.10-11	4.90-13	6.59-20	2.39-10	1.04-10

PHI 90 TO 135 DEGREES

3.65-10	2.04-10	1.04-09	1.22-11	3.89-10	1.11-14	2.30-31	5.91-11	3.06-11
2.16-10	2.25-10	5.42-11	1.91-11	6.50-12	8.47-14	3.36-29	2.27-11	8.79-12
3.72-10	2.32-10	8.45-11	1.45-10	4.35-11	2.22-15	1.52-21	3.54-11	1.31-11
5.20-10	1.79-10	1.14-10	1.37-10	4.09-11	2.82-13	6.13-27	4.32-11	1.95-11
7.62-11	1.89-10	7.40-11	1.48-11	8.67-12	9.20-13	1.28-26	1.35-11	5.03-12
9.27-10	9.07-11	5.02-11	5.73-11	1.20-11	9.70-13	5.74-33	6.11-11	4.88-11
1.98-10	1.60-10	1.37-10	4.45-11	2.74-11	3.91-12	1.62-28	9.47-11	6.48-11
2.21-10	9.35-10	3.27-11	3.01-10	1.07-11	9.62-12	1.15-24	2.62-10	1.94-10
1.11-10	7.34-11	1.15-10	1.40-10	3.10-11	2.28-13	2.02-23	2.85-11	1.15-11
2.23-11	3.95-11	5.43-11	1.51-11	7.39-11	2.12-14	6.31-25	1.95-10	1.67-10
6.46-10	5.36-10	2.30-10	2.36-10	7.44-11	4.31-12	4.09-22		
2.01-10	2.45-10	7.48-11	7.73-11	2.91-11	3.74-12	3.98-22	1.61-10	5.83-11

PHI 135 TO 180 DEGREES

1.19-09	3.17-11	4.80-12	8.52-11	4.86-12	1.74-15	2.41-21	7.37-11	5.14-11
3.22-10	9.28-11	2.09-10	2.50-10	8.77-11	6.11-16	8.18-28	3.25-11	1.40-11
8.30-11	8.33-11	1.90-10	2.74-10	5.76-12	3.53-13	1.17-25	2.97-11	1.58-11
3.01-11	1.07-10	7.57-10	6.99-11	8.94-12	8.58-14	1.40-25	2.50-11	1.72-11
1.24-10	4.34-11	4.13-11	1.24-10	6.40-12	2.09-15	4.83-24	1.20-11	5.16-12
4.83-11	3.90-11	5.94-11	7.64-11	4.77-11	8.41-14	1.09-21	7.45-12	2.65-12
1.76-10	4.39-11	5.31-11	4.52-11	8.78-11	1.67-13	1.87-22	1.52-11	6.73-12
2.09-11	2.68-10	6.17-11	4.27-11	7.32-12	2.23-11	2.04-25	1.33-11	5.19-12
5.76-11	9.98-11	6.75-11	5.40-11	1.05-11	2.33-13	2.36-20	2.10-11	1.18-11
4.11-11	5.63-10	1.49-10	2.82-12	1.70-12	3.54-16	3.95-25	4.11-11	2.25-11
2.65-10	2.26-10	4.06-10	2.15-10	6.19-11	6.17-12	4.49-21		
7.47-11	6.57-11	2.40-10	6.37-11	2.58-11	5.94-12	4.09-21	4.41-11	9.19-12
							5.45-09	4.65-10

AIR SCATTERING 2.17 02 ENERGY 4.00 ANGLE 6.00 01 DIST. 1.98 03
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.	5.17-10	2.17-08	1.76-09	0.	0.
4.00 01	0.	0.	0.	0.	0.	7.13-09	0.	0.
6.00 01	0.	0.	0.	0.	0.	1.72-09	3.51-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	4.32-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	3.29-09	0.
1.00 02	0.	0.	0.	0.	0.	0.	1.67-09	1.05-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.19-09
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.	3.12-11	1.31-09	1.80-09	3.20-09	5.71-10

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.	3.29-10	1.67-08	1.12-09	0.	0.
4.00 01	0.	0.	0.	0.	0.	4.54-09	0.	3.78-10
6.00 01	0.	0.	0.	0.	0.	1.45-09	2.74-09	1.03-09
8.00 01	0.	0.	0.	0.	0.	0.	2.75-09	3.25-10
9.00 01	0.	0.	0.	0.	0.	0.	2.09-09	4.18-10
1.00 02	0.	0.	0.	0.	0.	0.	2.28-09	1.88-09
1.20 02	0.	0.	0.	0.	0.	2.33-15	2.79-10	2.00-09
1.40 02	0.	0.	0.	0.	0.	0.	7.50-13	4.99-10
1.60 02	0.	0.	0.	0.	0.	0.	1.55-13	7.29-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	4.48-11
	0.	0.	0.	1.98-11	1.01-09	1.24-09	2.48-09	1.76-09
	0.	0.	0.	1.98-11	2.54-10	1.99-10	2.79-10	2.20-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	7.33-10	0.
4.00 01	0.	0.	0.	0.	0.	6.93-10	5.12-09	1.56-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.53-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.57-11
9.00 01	0.	0.	0.	0.	0.	0.	1.92-11	1.87-10
1.00 02	0.	0.	0.	0.	0.	0.	3.28-12	7.87-11
1.20 02	0.	0.	0.	0.	0.	2.08-12	0.	7.62-11
1.40 02	0.	0.	0.	0.	0.	0.	1.76-14	1.33-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	5.55-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	5.66-12
	0.	0.	0.	0.	0.	1.21-10	9.37-10	3.29-10
	0.	0.	0.	0.	0.	1.20-10	8.90-10	1.33-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	4.00-10
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.	3.56-12	0.	6.78-14
1.00 02	0.	0.	0.	0.	0.	0.	0.	6.54-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.72-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.39-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.04-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.89-11
	0.	0.	0.	0.	0.	0.	6.18-13	4.47-11
	0.	0.	0.	0.	0.	0.	6.18-13	2.73-11

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.	2.59-12
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.	3.16-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	5.52-11
	0.	0.	0.	0.	0.	0.	0.	5.47-11

227372070155 215600744765

AIR SCATTERING 2.17 02 ENERGY 4.00 ANGLE 6.00 01 DIST. 1.98 03

1.90 01	1.17 03	0.	0.	3.37 04	5.00 01	1.20 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.	5.98-09
0.	0.	0.	0.	0.	0.	0.	1.43-09
0.	0.	0.	0.	0.	0.	0.	6.94-10
0.	0.	0.	0.	0.	0.	0.	4.32-10
0.	0.	0.	0.	0.	0.	0.	3.29-10
0.	0.	0.	0.	0.	0.	0.	2.51-10
0.	0.	0.	0.	0.	0.	0.	9.52-11
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.	
							1.07-09

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		
6.33-11	9.66-10	3.25-11	4.20-10	5.43-14	8.76-16	1.29-23	4.57-09	1.07-09
8.93-10	1.97-10	8.46-11	5.53-11	2.41-11	9.09-15	5.37-32	1.00-09	1.80-10
2.82-10	2.02-10	2.60-10	4.29-11	1.67-11	1.50-15	2.61-22	6.77-10	1.33-10
5.98-10	2.12-10	1.67-10	1.01-10	9.11-12	1.80-12	4.41-20	3.50-10	5.19-11
5.47-11	6.01-10	1.51-10	7.85-11	7.10-12	1.81-15	4.57-22	2.72-10	4.72-11
2.36-10	2.70-10	2.58-10	4.30-11	4.59-12	3.43-15	4.74-22	4.09-10	8.67-11
2.16-10	2.98-10	1.47-10	1.81-10	7.03-11	1.98-14	1.89-21	2.19-10	3.65-11
3.45-10	5.61-10	5.61-10	4.94-11	5.29-12	6.85-14	1.28-20	9.51-11	2.20-11
8.73-11	1.41-10	8.93-11	1.52-11	2.75-12	1.19-14	1.23-26	7.11-11	3.41-11
3.30-11	4.32-10	5.80-10	3.17-11	4.50-11	1.02-15	1.47-31	3.60-11	1.66-11
6.59-10	6.63-10	4.59-10	1.77-10	4.12-11	6.18-13	1.86-20		
1.17-10	1.34-10	1.31-10	3.94-11	2.22-11	5.81-13	1.50-20	9.74-10	8.52-11

PHI 45 TO 90 DEGREES

3.98-12	1.07-10	1.12-11	1.40-11	2.28-11	4.92-13	6.82-37	7.82-11	7.33-11
7.52-10	2.86-11	1.30-10	5.64-11	4.35-12	1.05-13	3.77-24	7.13-10	6.51-10
2.33-10	1.92-10	3.48-11	2.94-11	5.54-12	2.48-14	2.27-29	5.05-11	2.20-11
3.54-10	2.31-10	1.19-10	1.12-10	7.74-12	3.46-13	6.58-28	3.60-11	9.61-12
8.64-10	4.25-10	2.51-10	5.86-11	7.62-12	8.76-16	3.03-23	9.11-11	4.84-11
3.53-11	2.18-10	1.02-10	6.66-10	4.79-12	2.06-15	1.35-21	2.91-11	1.02-11
2.60-10	1.65-10	1.52-10	5.29-11	3.11-11	2.93-15	1.35-22	3.29-11	1.06-11
9.86-11	4.80-11	1.40-10	1.26-10	1.28-11	6.71-15	1.31-25	2.37-11	8.11-12
9.81-11	1.30-10	2.11-11	1.41-10	1.88-11	2.23-14	1.89-22	5.77-11	4.30-11
2.20-10	5.20-11	1.18-10	5.06-10	3.82-13	1.40-16	3.74-34	2.60-11	1.15-11
6.09-10	3.42-10	2.30-10	2.86-10	2.51-11	1.74-13	3.18-22		
1.84-10	7.88-11	5.38-11	1.04-10	9.64-12	1.17-13	2.41-22	2.03-10	1.15-10

PHI 90 TO 135 DEGREES

9.72-11	2.32-11	1.43-10	2.90-11	1.39-11	2.02-16	2.75-22	4.27-11	3.26-11
1.10-10	1.39-10	2.47-11	2.07-11	1.39-10	1.44-13	2.56-26	1.42-11	4.85-12
5.10-10	1.09-10	5.39-10	3.28-11	1.18-10	2.57-13	3.15-24	4.94-11	2.71-11
1.26-10	2.69-10	1.27-09	7.58-11	7.43-12	4.93-14	2.65-28	4.90-11	2.85-11
1.72-10	1.24-11	3.13-10	8.13-11	1.88-09	8.69-14	1.02-25	4.25-11	2.46-11
3.79-11	2.73-10	1.05-10	4.69-11	4.86-11	2.46-14	2.45-24	2.11-11	8.34-12
4.90-11	5.34-11	2.33-11	5.93-12	7.08-11	2.52-14	6.14-22	7.74-12	2.75-12
9.73-11	2.12-11	9.10-10	4.35-10	8.27-11	7.39-15	1.27-21	3.60-11	1.73-11
1.00-10	3.57-10	3.02-11	6.03-11	4.21-11	2.82-14	6.86-23	2.18-11	7.51-12
2.22-11	7.87-10	4.44-11	1.31-10	4.76-12	2.71-15	1.17-24	3.51-11	2.82-11
2.99-10	3.24-10	9.02-10	1.97-10	4.47-10	1.44-13	5.67-22		
1.21-10	1.05-10	4.36-10	6.51-11	3.79-10	6.13-14	3.45-22	6.32-11	1.47-11

PHI 135 TO 180 DEGREES

1.55-10	2.44-10	9.40-11	3.36-12	4.47-14	4.43-16	2.33-22	2.04-11	1.04-11
4.96-10	1.66-10	1.96-10	3.72-10	5.12-11	9.59-17	3.12-30	4.66-11	1.71-11
3.00-10	3.38-10	1.06-10	8.87-11	4.26-12	4.63-16	1.53-31	3.41-11	1.36-11
3.26-10	4.18-10	4.60-10	7.38-11	1.58-11	6.81-15	6.03-24	4.70-11	1.87-11
3.83-10	1.68-10	4.40-09	2.16-10	3.49-10	7.17-18	2.91-29	1.42-10	1.04-10
5.44-10	2.70-12	5.30-10	3.30-10	3.21-12	4.66-14	4.09-28	5.06-11	2.86-11
4.94-10	5.41-11	1.23-10	1.48-10	2.45-11	5.17-13	9.02-23	3.70-11	1.61-11
1.23-10	2.00-11	8.01-11	1.56-10	3.42-11	1.38-13	3.66-22	1.28-11	5.47-12
1.19-10	1.39-11	4.52-10	4.88-11	4.01-10	1.69-13	4.72-27	4.93-11	2.81-11
4.98-11	3.12-11	3.19-11	6.97-11	2.70-11	8.73-16	4.60-27	6.25-12	3.48-12
6.60-10	3.27-10	1.22-09	3.10-10	1.65-10	2.45-13	1.43-22		
2.48-10	1.41-10	8.78-10	1.62-10	8.23-11	1.70-13	1.02-22	9.16-11	2.84-11
							2.09-09	2.46-10

AIR SCATTERING 2.18 02 ENERGY 4.00 ANGLE 9.00 01 DIST. 1.98 03
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.	0.	1.46-08	1.00-09	0.
4.00 01	0.	0.	0.	0.	0.	0.	7.97-09	0.
6.00 01	0.	0.	0.	0.	0.	0.	3.90-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	7.29-10	1.21-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.96-10
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.	8.82-10	2.72-09	4.28-10

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.	9.31-09	6.40-10	8.28-10
4.00 01	0.	0.	0.	0.	0.	3.80-10	5.32-09	8.60-10
6.00 01	0.	0.	0.	0.	0.	6.24-11	2.99-09	9.80-10
8.00 01	0.	0.	0.	0.	0.	0.	6.79-10	1.30-09
9.00 01	0.	0.	0.	0.	0.	0.	3.28-11	8.88-10
1.00 02	0.	0.	0.	0.	0.	0.	3.46-12	6.19-10
1.20 02	0.	0.	0.	0.	0.	0.	8.09-13	1.58-10
1.40 02	0.	0.	0.	0.	0.	0.	2.44-12	1.46-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.00-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	6.44-10	1.99-09	1.24-09
	0.	0.	0.	0.	0.	9.49-11	1.73-10	1.26-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.65-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	7.66-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.07-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.41-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.04-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.81-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.65-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.75-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.74-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	3.37-10
	0.	0.	0.	0.	0.	0.	0.	1.06-10

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.	1.43-10
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.	7.79-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	5.33-12
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.	0.	3.98-11
	0.	0.	0.	0.	0.	0.	0.	3.82-11

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.	6.76-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.86-14
1.40 02	0.	0.	0.	0.	0.	0.	0.	8.47-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.11-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	8.55-12
	0.	0.	0.	0.	0.	0.	0.	7.19-12

163366403721 025600565725

AIR SCATTERING 2.18 02 ENERGY 4.00 ANGLE 9.00 01 DIST. 1.98 03
2.40 01 1.77 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.	3.03-09
0.	0.	0.	0.	0.	0.	0.	7.97-10
0.	0.	0.	0.	0.	0.	0.	3.90-10
0.	0.	0.	0.	0.	0.	0.	1.70-10
0.	0.	0.	0.	0.	0.	0.	1.57-11
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.	
							4.83-10

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		
1.45-09	7.28-12	1.51-11	4.99-11	1.66-11	1.75-16	7.41-29	2.08-09	2.85-10
4.45-10	2.05-10	5.14-10	1.40-10	6.32-12	9.21-15	1.95-21	7.25-10	1.00-10
5.18-10	7.36-10	1.36-10	4.24-11	1.45-11	9.31-14	2.36-22	4.52-10	5.80-11
2.72-10	8.52-10	1.08-10	4.50-10	2.69-11	5.90-15	7.84-25	2.29-10	2.26-11
2.06-10	2.60-10	3.18-10	5.36-11	4.63-11	4.91-15	1.85-26	1.05-10	2.22-11
1.66-10	1.49-10	1.11-10	9.03-11	4.61-11	9.98-15	1.72-24	6.98-11	2.35-11
2.52-10	1.82-10	2.28-10	9.11-11	8.73-11	6.67-15	3.16-24	4.22-11	1.19-11
6.78-10	2.95-10	1.39-10	2.40-10	2.57-11	4.88-15	6.73-25	7.05-11	3.66-11
7.29-10	1.64-09	9.85-11	3.05-11	1.84-11	1.30-15	1.51-25	1.06-10	9.83-11
3.31-11	2.07-12	5.51-10	8.97-11	1.04-11	2.95-13	1.17-29	1.68-11	1.33-11
8.47-10	1.00-09	3.98-10	3.15-10	6.99-11	5.24-14	4.03-22		
2.61-10	3.93-10	1.03-10	1.18-10	2.27-11	2.24-14	3.41-22	5.29-10	4.13-11

PHI 45 TO 90 DEGREES

2.92-10	3.33-11	9.09-11	1.81-11	4.02-13	3.92-13	1.11-29	3.44-11	2.00-11
1.79-10	4.17-10	1.65-10	4.64-11	6.42-12	3.77-15	5.45-26	9.18-11	3.19-11
1.24-09	2.28-10	4.14-10	5.91-10	1.78-11	9.00-16	1.92-24	1.18-10	4.05-11
2.77-10	3.27-10	5.09-10	8.62-10	1.70-11	8.95-15	4.58-22	8.10-11	2.91-11
5.87-11	1.23-10	2.41-10	1.06-10	1.54-11	4.16-14	5.42-23	2.38-11	8.58-12
2.24-10	6.22-11	4.65-11	1.21-10	5.68-12	6.31-15	1.14-27	2.01-11	9.11-12
1.69-10	1.94-10	1.77-10	2.39-10	2.03-11	6.31-15	2.30-26	2.65-11	8.29-12
2.90-11	4.44-11	3.08-10	3.19-10	5.77-12	2.55-15	3.50-24	1.56-11	5.67-12
7.70-11	7.73-11	7.82-11	5.62-11	7.70-12	1.54-15	4.35-26	1.06-11	3.50-12
1.07-10	2.27-12	8.67-11	7.04-12	4.14-12	2.53-14	7.54-25	8.71-12	8.02-12
6.00-10	3.63-10	5.19-10	6.60-10	2.48-11	4.03-14	1.60-22		
1.71-10	7.91-11	1.48-10	3.96-10	6.69-12	2.48-14	1.50-22	9.86-11	1.76-11

PHI 90 TO 135 DEGREES

9.48-11	4.19-11	6.83-11	1.57-11	2.38-11	2.90-15	8.28-32	9.36-12	3.74-12
1.37-10	7.42-11	6.26-11	8.14-11	5.38-12	2.20-15	1.39-23	1.37-11	6.22-12
9.84-11	4.96-10	3.06-10	2.26-11	9.38-12	3.80-14	3.76-28	4.30-11	1.57-11
8.17-11	4.95-11	4.68-11	1.18-10	9.98-12	1.20-14	2.70-23	9.70-12	2.31-12
7.56-11	1.33-10	9.89-11	5.90-11	2.10-10	2.30-15	2.33-29	1.51-11	5.22-12
3.85-10	3.32-10	4.72-11	4.78-11	8.11-12	2.15-15	1.38-27	3.70-11	2.24-11
4.60-11	3.70-11	8.23-11	5.57-11	3.21-12	1.98-16	1.21-27	7.00-12	1.87-12
1.31-10	3.95-11	2.53-10	6.75-11	1.39-11	4.30-14	9.62-26	1.70-11	5.32-12
1.15-10	7.61-11	2.28-10	1.37-10	2.92-12	1.67-14	2.54-24	1.72-11	8.97-12
5.87-10	1.37-11	1.10-10	1.96-11	1.80-11	6.14-16	5.02-28	3.89-11	3.53-11
2.67-10	2.81-10	2.77-10	1.39-10	5.23-11	2.98-14	1.17-23		
7.80-11	8.14-11	7.71-11	3.10-11	3.50-11	1.24-14	7.89-24	3.87-11	7.99-12

PHI 135 TO 180 DEGREES

6.70-11	1.75-11	3.16-10	8.71-11	2.72-11	9.53-16	2.17-25	1.39-11	6.57-12
1.53-10	7.47-12	8.33-11	2.23-10	7.31-12	2.96-16	1.21-26	1.49-11	4.59-12
3.07-10	2.36-10	1.05-10	1.16-10	5.99-11	1.25-15	3.68-23	3.19-11	1.38-11
6.88-11	3.86-11	7.00-11	6.99-11	8.28-12	2.06-15	1.62-21	8.34-12	2.50-12
2.53-11	1.45-11	4.33-10	1.54-11	8.37-13	1.43-14	1.07-26	1.32-11	6.02-12
1.04-10	3.08-11	1.25-10	2.60-10	4.43-12	1.08-15	6.88-27	1.43-11	6.16-12
1.18-10	4.61-10	3.48-11	9.24-11	8.03-12	3.08-15	1.30-28	2.60-11	1.48-11
7.29-10	1.08-10	3.52-11	3.05-10	1.20-10	6.50-15	1.28-26	5.45-11	3.61-11
1.24-10	6.25-11	9.20-10	3.29-10	3.90-12	4.73-15	2.44-27	4.00-11	1.98-11
1.28-10	1.58-12	5.31-12	7.20-13	2.01-11	5.53-15	4.08-26	8.09-12	5.20-12
4.19-10	2.76-10	3.62-10	3.14-10	5.89-11	7.67-15	5.40-22		
1.71-10	1.37-10	1.51-10	1.25-10	3.86-11	3.17-15	5.39-22	4.99-11	1.53-11
							1.12-09	8.71-11

AIR SCATTERING 2.19 02 ENERGY 4.00 ANGLE 1.35 02 DIST. 1.98 03
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.	2.71-08	0.
4.00 01	0.	0.	0.	0.	0.	0.	4.99-10	5.49-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.24-11
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.	1.72-09	9.62-10

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.	1.96-08	7.75-10
4.00 01	0.	0.	0.	0.	0.	0.	3.66-10	4.93-09
6.00 01	0.	0.	0.	0.	0.	0.	4.48-12	8.50-10
8.00 01	0.	0.	0.	0.	0.	0.	2.39-21	1.18-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	6.87-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.51-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.83-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.29-12
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.	1.24-09	1.18-09
	0.	0.	0.	0.	0.	0.	2.08-10	1.01-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	5.20-10
4.00 01	0.	0.	0.	0.	0.	0.	3.31-13	2.85-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.52-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	9.09-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.49-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.54-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.81-11
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.	5.75-14	6.04-10
	0.	0.	0.	0.	0.	0.	5.60-14	3.26-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.17-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.72-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.89-12
8.00 01	0.	0.	0.	0.	0.	0.	0.	6.90-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.99-13
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.	1.41-10
	0.	0.	0.	0.	0.	0.	0.	5.47-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	6.73-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.51-13
6.00 01	0.	0.	0.	0.	0.	0.	0.	9.21-14
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.57-11
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.	5.38-13
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.	4.70-11
	0.	0.	0.	0.	0.	0.	0.	4.07-11

136134015141 33256123137 1

AIR SCATTERING 2.19 02 ENERGY 4.00 ANGLE 1.35 02 DIST. 1.98 03

1.30 01	1.18 03	0.	0.	3.32 04	5.00 01	1.20 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.	2.71-09
0.	0.	0.	0.	0.	0.	0.	4.89-10
0.	0.	0.	0.	0.	0.	0.	2.59-12
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	2.49-10

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		
6.17-11	3.16-10	2.10-10	8.52-11	7.43-12	1.72-14	1.04-33	2.04-09	3.45-10
2.84-10	8.00-10	2.93-10	8.32-11	8.84-11	5.92-14	8.54-27	4.86-10	4.34-11
1.30-10	3.97-10	1.50-10	7.54-11	3.73-11	1.67-14	4.40-23	9.57-11	1.87-11
8.37-11	1.20-10	1.28-10	1.55-10	5.93-12	7.83-15	9.05-27	2.42-11	4.83-12
7.58-11	1.63-10	4.10-10	6.85-11	7.57-12	3.77-14	1.55-23	2.69-11	1.06-11
5.12-11	7.11-11	1.68-10	3.88-10	2.13-11	1.45-15	6.12-29	1.67-11	6.17-12
1.05-10	2.68-10	3.75-10	4.84-11	1.30-11	4.25-14	1.97-23	2.62-11	8.42-12
1.76-11	1.04-10	5.10-10	6.25-11	3.23-12	5.29-13	1.26-23	1.81-11	8.52-12
9.48-11	1.04-10	1.40-11	1.04-10	7.70-13	4.04-15	6.15-22	1.13-11	8.18-12
3.43-11	4.44-11	1.67-11	7.49-13	1.11-12	1.12-16	6.40-27	4.08-12	3.62-12
1.95-10	4.79-10	5.06-10	2.20-10	3.80-11	1.81-13	1.31-22		
3.27-11	1.20-10	1.72-10	7.86-11	1.40-11	1.38-13	1.07-22	2.64-10	2.43-11

PHI 45 TO 90 DEGREES

1.50-10	2.34-10	6.11-11	3.08-11	7.25-12	1.59-16	1.24-24	6.10-11	2.05-11
3.82-10	5.49-10	9.84-11	1.03-10	2.49-10	2.47-15	2.21-21	2.78-10	1.52-10
2.62-11	1.08-09	1.85-10	2.74-10	1.39-10	2.09-14	5.95-23	6.28-11	3.08-11
6.15-10	7.17-11	2.61-10	4.91-10	4.21-11	3.98-14	9.19-25	6.09-11	2.60-11
3.56-11	1.63-10	8.99-11	7.93-11	7.42-12	1.08-13	4.91-24	1.19-11	4.49-12
9.52-10	1.45-10	3.03-10	8.31-11	1.30-10	1.01-12	6.93-26	7.27-11	5.24-11
1.60-10	4.88-11	2.68-10	2.44-10	2.36-11	8.83-14	2.19-27	2.31-11	7.01-12
5.43-11	3.75-11	9.24-11	4.37-11	2.91-11	3.35-15	3.57-24	7.83-12	3.83-12
7.74-12	2.70-12	4.97-11	2.66-11	7.82-11	9.04-15	2.30-28	3.09-12	1.19-12
4.92-12	6.45-12	1.99-11	3.11-10	4.86-14	3.91-17	1.38-26	5.67-12	4.21-12
5.23-10	5.00-10	3.45-10	3.96-10	1.47-10	2.45-13	4.02-22		
1.98-10	2.49-10	1.09-10	1.47-10	6.91-11	2.04-13	3.98-22	1.14-10	3.15-11

PHI 90 TO 135 DEGREES

5.82-11	8.10-11	7.40-10	1.78-11	2.04-12	1.29-16	9.45-28	1.18-10	5.47-11
1.91-10	3.57-10	1.06-10	8.20-11	1.51-11	2.19-13	2.46-23	5.00-11	1.74-11
3.48-10	1.15-10	1.90-10	2.07-10	6.03-12	1.15-11	1.97-22	3.28-11	1.17-11
2.62-10	3.22-10	2.93-10	1.44-10	7.76-11	3.23-13	4.91-24	4.29-11	1.55-11
3.27-11	1.55-11	2.42-10	5.40-11	5.83-12	2.10-14	5.20-31	9.21-12	4.11-12
9.53-10	1.16-10	1.95-10	3.07-11	4.22-11	1.30-15	5.07-28	6.70-11	5.56-11
5.65-11	6.23-11	4.67-11	2.52-10	1.94-11	2.81-14	1.09-26	1.08-11	4.31-12
1.25-10	1.24-09	1.11-11	3.77-11	1.48-11	5.28-15	7.40-26	5.33-11	4.48-11
6.77-13	9.24-11	1.87-10	9.17-11	3.81-12	1.61-14	7.96-18	9.28-12	4.56-12
0.	3.00-11	8.33-12	6.12-10	3.80-12	1.51-15	2.66-18	1.05-11	9.22-12
4.38-10	5.94-10	3.36-10	2.75-10	4.91-11	3.22-12	1.54-18		
1.85-10	3.44-10	1.25-10	1.04-10	2.13-11	3.09-12	1.54-18	7.17-11	1.95-11

PHI 135 TO 180 DEGREES

2.02-10	5.73-11	7.97-11	1.58-11	8.55-12	5.02-18	2.75-27	7.02-11	5.41-11
3.72-10	3.07-10	1.67-10	1.98-11	7.14-10	1.57-14	7.19-31	4.62-11	1.54-11
2.38-10	3.78-10	2.75-10	1.86-11	1.44-12	8.52-14	1.70-29	3.48-11	1.38-11
8.78-11	1.66-10	2.32-11	1.00-11	2.13-11	5.16-14	1.62-25	1.22-11	4.87-12
2.97-10	3.49-11	1.01-10	1.38-11	8.76-11	1.63-15	4.93-31	2.56-11	1.30-11
6.54-11	1.80-11	6.78-11	1.26-11	1.53-11	6.64-18	5.96-32	6.57-12	2.90-12
1.10-11	5.18-11	4.46-11	3.00-11	6.63-12	5.11-13	1.82-17	4.13-12	1.88-12
5.33-11	4.48-11	5.43-12	1.30-11	2.00-11	8.95-15	1.04-21	5.42-12	3.35-12
2.42-14	2.04-11	2.62-12	4.75-12	1.75-12	4.71-14	4.43-22	8.92-13	5.34-13
8.51-12	1.19-09	7.45-13	1.06-11	1.93-13	6.84-16	3.09-27	4.37-11	4.25-11
2.50-10	3.25-10	1.60-10	3.19-11	1.58-10	2.20-13	5.93-18		
7.03-11	1.31-10	6.51-11	7.64-12	1.25-10	1.62-13	5.92-18	3.67-11	8.45-12
							7.64-10	8.47-11

AIR SCATTERING 2.20 02 ENERGY 4.00 ANGLE 1.80 02 DIST. 1.98 03
1.25-03 1.07-02 3.20 01 1.97-06

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.	4.20-08
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.	2.54-09

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.	4.56-11	2.93-08
4.00 01	0.	0.	0.	0.	0.	0.	7.20-13	3.56-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.75-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.22-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.01-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.13-11
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.	2.87-12	1.88-09
	0.	0.	0.	0.	0.	0.	2.55-12	1.66-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.20-12	5.07-09
4.00 01	0.	0.	0.	0.	0.	0.	3.11-13	3.22-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	8.94-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.71-11
9.00 01	0.	0.	0.	0.	0.	0.	9.48-12	1.17-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.13-14
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.38-12
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.	1.77-12	6.10-10
	0.	0.	0.	0.	0.	0.	1.65-12	2.32-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.14-11	5.40-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	6.11-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	5.10-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	7.74-13
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.	4.03-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.34-11
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.	6.86-13	4.50-10
	0.	0.	0.	0.	0.	0.	6.72-13	2.50-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	8.98-13	2.66-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.43-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.68-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	7.48-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.85-11
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.	4.17-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	5.41-14	3.27-10
	0.	0.	0.	0.	0.	0.	5.41-14	9.05-11

332561231371 1337172451

AIR SCATTERING 2.20 02 ENERGY 4.00 ANGLE 1.80 02 DIST. 1.98 03
2.10 01 1.18 03 0. 0. 3.32 04 5.00 01 1.20 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.	3.36-09
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.	2.03-10

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		
1.64-10	5.90-10	4.75-10	1.03-10	8.38-12	3.23-15	1.96-23	2.39-09	2.07-10
5.67-11	1.13-10	3.55-10	2.98-11	1.32-11	3.54-15	4.92-26	4.51-11	1.35-11
1.14-10	1.83-10	1.06-10	6.67-10	1.08-10	1.20-15	6.15-28	4.13-11	1.24-11
2.30-10	1.17-10	3.84-10	2.86-10	1.25-10	1.68-14	1.16-24	3.27-11	9.70-12
4.47-11	5.84-11	1.73-10	4.32-10	2.58-12	3.17-13	1.49-21	1.62-11	5.71-12
1.34-11	4.45-10	1.70-11	1.87-11	2.38-10	5.91-16	5.20-24	2.21-11	1.31-11
6.74-11	5.23-11	2.67-11	1.11-10	3.01-11	1.49-12	1.45-22	8.60-12	2.94-12
8.34-10	5.03-11	6.00-11	4.75-11	3.22-11	5.27-13	3.41-22	5.44-11	4.97-11
1.68-11	3.05-11	2.74-10	1.50-11	4.12-10	5.99-17	8.92-25	1.24-11	6.20-12
3.30-12	0.	1.50-10	6.03-10	2.42-12	1.96-11	4.20-29	1.30-11	8.38-12
3.82-10	2.65-10	3.34-10	4.42-10	2.04-10	1.87-12	4.00-22		
2.26-10	7.43-11	9.78-11	2.05-10	1.11-10	1.28-12	2.76-22	2.01-10	2.17-11

PHI 45 TO 90 DEGREES

3.34-10	3.71-10	1.71-10	7.83-11	5.42-12	2.22-13	1.67-27	4.45-10	1.72-10
3.49-10	2.45-10	2.09-10	2.77-10	1.65-11	1.83-15	1.83-24	6.49-11	1.87-11
1.23-10	3.77-10	7.73-11	1.33-10	6.04-12	3.10-15	1.64-28	9.64-11	5.85-11
1.99-10	1.12-10	5.47-11	4.60-10	2.75-12	2.03-15	1.08-25	2.64-11	9.69-12
2.94-11	1.03-10	4.71-10	1.13-10	1.89-12	1.97-14	4.83-24	1.95-11	6.71-12
4.97-11	2.08-10	3.93-10	1.69-10	3.24-12	4.12-14	1.54-26	2.25-11	9.34-12
2.10-11	7.52-11	3.77-11	3.05-11	5.90-12	9.30-15	4.87-26	5.67-12	2.60-12
9.32-11	9.36-12	1.66-10	1.04-11	8.04-11	1.34-14	1.09-24	1.10-11	4.32-12
1.29-11	3.09-11	2.47-13	1.66-10	3.13-11	9.67-16	5.96-27	4.76-12	2.35-12
1.97-12	1.82-12	3.94-10	2.08-09	2.53-14	1.78-18	9.74-33	4.08-11	3.85-11
2.26-10	2.88-10	3.15-10	4.54-10	3.53-11	3.26-14	1.50-24		
5.42-11	8.27-11	8.09-11	2.10-10	2.43-11	1.60-14	9.26-25	8.77-11	2.00-11

PHI 90 TO 135 DEGREES

8.56-11	1.69-10	1.06-09	7.48-10	1.27-10	1.36-16	2.21-26	4.82-10	3.24-10
7.48-11	5.24-10	4.63-10	4.36-11	2.95-11	5.38-15	1.50-24	8.43-11	3.05-11
6.73-11	3.70-10	6.61-11	1.30-10	9.93-12	3.54-15	7.58-23	2.47-11	9.32-12
1.36-09	1.36-10	6.10-11	9.08-11	1.94-11	4.55-15	1.94-26	8.94-11	6.61-11
8.79-11	2.34-10	1.05-10	8.32-11	9.10-11	1.24-15	2.30-27	1.86-11	7.18-12
3.56-10	1.60-10	7.39-11	2.79-11	6.27-11	6.02-13	2.73-24	3.00-11	1.91-11
1.23-11	1.18-10	1.78-10	2.33-11	2.69-11	1.85-15	4.03-24	1.02-11	4.42-12
5.15-12	1.17-10	4.29-11	2.21-10	1.73-11	8.88-15	3.99-24	1.01-11	4.29-12
1.47-10	3.03-11	2.72-14	8.96-11	5.93-13	3.65-14	9.36-32	1.13-11	8.95-12
0.	0.	4.02-11	1.12-08	5.12-13	3.73-18	6.14-28	1.69-10	1.66-10
5.85-10	3.87-10	2.85-10	8.92-10	6.20-11	1.17-13	2.33-23		
3.64-10	1.09-10	1.07-10	6.70-10	2.59-11	1.05-13	1.66-23	1.06-10	3.22-11

PHI 135 TO 180 DEGREES

2.39-10	1.66-10	1.38-10	1.97-10	4.48-11	3.64-13	1.60-28	2.40-10	7.42-11
1.53-10	1.80-10	1.74-10	8.30-11	2.59-11	7.50-15	8.88-24	4.88-11	1.25-11
5.07-11	2.17-10	3.25-11	1.19-10	1.10-11	7.98-15	2.40-28	4.30-11	2.08-11
1.26-09	6.14-11	4.69-10	4.71-11	6.89-12	2.72-13	1.15-19	8.99-11	7.06-11
2.74-12	1.75-10	2.37-10	9.17-12	3.78-11	1.89-14	1.27-21	1.66-11	7.68-12
1.93-11	9.06-11	1.94-10	2.99-11	2.80-11	6.81-15	4.46-21	9.85-12	4.00-12
2.85-11	5.84-11	1.73-09	4.79-12	2.72-11	1.53-15	1.55-23	4.57-11	4.11-11
1.32-12	4.56-11	6.41-11	6.36-11	1.10-12	3.92-17	2.81-31	4.22-12	1.77-12
9.60-13	9.91-11	4.80-11	3.72-11	5.67-11	7.91-16	1.93-31	6.05-12	4.17-12
5.72-11	3.66-10	7.75-10	8.63-12	2.71-13	3.64-16	2.38-33	3.54-11	2.29-11
4.83-10	2.36-10	9.11-10	1.06-10	4.28-11	1.19-13	3.86-20		
3.62-10	7.03-11	6.15-10	2.41-11	1.39-11	8.02-14	3.81-20	8.76-11	2.90-11
							7.57-10	1.17-10

AIR SCATTERING 2.21 02 ENERGY 2.00 ANGLE 1.00 DIST. 1.98 03
1.25-03 1.07-02 3.20 01 1.97-06

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	6.28-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	4.18-07	1.01-06	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	5.31-07	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	4.08-07	4.82-07	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	7.33-07	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	3.91-07	0.	0.
1.40 02	0.	0.	0.	0.	0.	5.70-07	0.	0.
1.60 02	0.	0.	0.	0.	0.	4.45-07	5.41-07	0.
1.80 02	0.	0.	0.	0.	0.	0.	3.21-06	0.
	4.51-07	1.75-07	1.41-07	1.33-07	2.84-07	3.57-07	2.88-07	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	4.27-06	0.	0.	0.	4.14-09	0.	8.72-09	1.61-11
4.00 01	2.66-07	6.43-07	0.	0.	0.	0.	4.16-10	2.15-08
6.00 01	0.	0.	3.38-07	0.	0.	0.	8.86-14	5.62-10
8.00 01	0.	0.	0.	2.60-07	3.07-07	0.	0.	8.83-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.08-09
1.00 02	0.	0.	0.	0.	4.66-07	0.	3.12-10	2.03-10
1.20 02	0.	0.	0.	0.	0.	2.49-07	8.39-10	1.34-09
1.40 02	0.	0.	0.	0.	0.	3.63-07	1.09-09	8.77-10
1.60 02	0.	0.	0.	0.	0.	2.83-07	3.51-07	2.30-09
1.80 02	0.	0.	0.	0.	2.21-16	1.09-11	2.06-06	7.46-10
	3.04-07	1.12-07	8.99-08	8.47-08	1.81-07	2.27-07	1.86-07	5.51-09
	5.67-08	7.89-08	6.35-08	8.47-08	1.29-07	1.12-07	4.28-08	2.99-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	5.49-09	3.50-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	5.60-09
6.00 01	0.	0.	0.	0.	0.	0.	1.29-09	5.63-09
8.00 01	0.	0.	0.	0.	0.	0.	2.28-09	1.66-09
9.00 01	0.	0.	0.	0.	0.	0.	2.50-13	8.88-11
1.00 02	0.	0.	0.	0.	0.	1.59-14	3.37-10	4.22-10
1.20 02	0.	0.	0.	0.	0.	0.	4.80-09	8.05-10
1.40 02	0.	0.	0.	0.	1.21-11	0.	1.77-09	8.33-10
1.60 02	0.	0.	0.	0.	0.	5.48-13	1.32-09	3.06-10
1.80 02	0.	0.	0.	0.	1.55-12	6.31-12	5.46-08	2.99-10
	0.	0.	0.	0.	3.32-12	4.78-13	7.04-09	3.87-09
	0.	0.	0.	0.	3.22-12	3.08-13	3.23-09	1.60-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	5.44-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.09-09
6.00 01	0.	0.	0.	0.	0.	5.87-10	0.	8.49-10
8.00 01	0.	0.	0.	0.	0.	0.	3.13-09	7.31-09
9.00 01	0.	0.	0.	0.	0.	7.36-09	2.29-10	5.54-10
1.00 02	0.	0.	0.	0.	0.	0.	3.43-11	2.62-09
1.20 02	0.	0.	0.	0.	0.	1.04-12	1.30-10	1.97-09
1.40 02	0.	0.	0.	0.	0.	3.36-12	3.51-10	4.57-10
1.60 02	0.	0.	0.	0.	1.04-13	9.68-12	1.58-09	3.73-10
1.80 02	0.	0.	0.	0.	1.61-11	1.49-13	6.38-09	8.11-10
	0.	0.	0.	0.	9.88-13	1.44-09	1.86-09	4.26-09
	0.	0.	0.	0.	7.08-13	1.29-09	9.65-10	2.38-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	6.88-09	0.	0.	0.	0.	1.01-09
4.00 01	0.	0.	0.	0.	4.39-10	0.	5.31-10	7.37-09
6.00 01	0.	0.	0.	0.	0.	0.	1.70-10	2.60-09
8.00 01	0.	0.	0.	0.	0.	0.	1.46-09	1.30-09
9.00 01	0.	0.	0.	0.	0.	0.	4.07-11	5.83-10
1.00 02	0.	0.	0.	0.	0.	1.70-11	0.	1.47-09
1.20 02	0.	0.	0.	0.	0.	4.63-12	5.86-10	3.42-10
1.40 02	0.	0.	0.	0.	0.	1.98-12	1.60-09	4.20-10
1.60 02	0.	0.	0.	0.	6.90-12	1.72-09	4.79-09	3.32-10
1.80 02	0.	0.	0.	0.	7.32-13	3.64-11	6.68-09	4.59-10
	0.	0.	4.15-10	0.	7.75-11	3.06-10	2.47-09	3.12-09
	0.	0.	4.15-10	0.	7.63-11	2.99-10	6.77-10	1.50-09

07203213451 1 1320174217 51

AIR SCATTERING 2.21 02 ENERGY 2.00 ANGLE 1.00 DIST. 1.98 03

4.70 01	1.73 03	0.	0.	5.43 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.	3.77-06
0.	0.	0.	0.	0.	0.	0.	5.54-07
0.	0.	0.	0.	0.	0.	0.	2.12-07
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.	1.10-07
0.	0.	0.	0.	0.	0.	0.	4.30-08
0.	0.	0.	0.	0.	0.	0.	6.27-08
0.	0.	0.	0.	0.	0.	0.	8.69-08
0.	0.	0.	0.	0.	0.	0.	2.25-07
0.	0.	0.	0.	0.	0.	0.	
							5.09-07

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		
2.02-10	4.11-10	5.47-11	3.48-12	4.73-10	7.83-19	1.11-32	2.56-06	4.63-07
4.62-10	7.46-11	5.32-10	1.59-11	1.24-11	4.55-16	1.15-24	3.54-07	1.77-07
5.08-10	2.22-09	5.46-10	4.17-11	2.49-11	6.86-16	6.84-19	1.35-07	9.55-08
1.79-10	5.50-10	1.99-10	3.29-10	1.12-11	9.84-15	4.25-20	9.80-08	6.93-08
2.68-10	1.75-10	3.58-10	9.94-11	3.49-12	2.17-14	9.58-22	7.60-11	3.87-11
8.97-10	1.82-10	2.21-10	4.47-11	8.41-12	1.27-13	8.98-22	7.00-08	7.00-08
2.15-10	2.90-10	5.14-10	3.94-10	1.07-11	1.31-13	7.60-22	2.75-08	2.74-08
5.90-10	2.72-10	2.93-10	6.15-11	4.69-12	5.97-16	5.37-21	4.00-08	2.86-08
1.02-09	1.87-09	6.57-10	8.51-11	3.73-10	3.74-16	1.60-22	5.59-08	2.64-08
5.80-10	2.93-10	6.60-10	1.87-10	1.74-11	2.01-14	8.61-2[illegible]	1.44-07	2.86-08
9.28-10	1.38-09	8.06-10	3.17-10	1.14-10	7.35-14	1.98-19		
2.05-10	5.48-10	1.66-10	1.01-10	7.20-11	5.59-14	1.84-19	3.34-07	5.61-08

PHI 45 TO 90 DEGREES

2.68-10	1.41-09	3.40-10	4.63-10	1.52-11	2.34-15	1.82-35	6.15-10	3.99-10
4.97-10	2.52-10	1.41-09	8.17-10	1.67-11	7.85-17	3.82-23	3.41-10	1.89-10
2.01-09	1.02-09	1.96-09	2.73-10	2.59-11	2.32-15	3.64-23	5.11-10	2.84-10
4.07-10	2.11-10	2.22-10	6.10-10	1.79-10	2.27-15	2.68-21	2.75-10	1.65-10
2.13-10	8.71-11	4.77-10	6.20-11	7.91-11	2.98-14	1.16-23	2.52-11	6.17-12
1.89-09	2.46-10	1.95-10	6.06-10	1.06-11	2.69-14	1.21-23	1.29-10	5.93-11
1.97-10	6.25-10	2.84-10	7.34-10	1.20-10	3.84-15	2.70-24	4.12-10	2.50-10
7.32-10	9.94-10	4.27-10	7.09-10	5.94-12	5.55-16	5.52-26	2.33-10	8.46-11
7.24-10	3.37-10	1.89-09	2.92-10	1.06-10	3.61-14	2.12-24	1.84-10	5.15-11
5.25-10	1.07-09	5.86-10	5.36-11	1.36-10	4.93-17	8.08-19	3.90-09	3.25-09
1.55-09	1.12-09	1.55-09	1.04-09	1.52-10	1.90-14	4.96-20		
5.51-10	3.06-10	5.20-10	3.46-10	6.72-11	1.00-14	4.87-20	8.12-10	2.42-10

PHI 90 TO 135 DEGREES

2.04-10	3.28-11	1.42-10	3.04-10	9.81-11	1.09-16	8.24-24	4.22-11	1.83-11
2.65-10	5.07-10	7.30-11	1.17-10	7.50-12	2.22-15	3.20-25	7.88-11	2.73-11
2.54-09	5.73-10	5.28-10	2.99-11	1.74-11	9.05-17	5.63-23	2.23-10	9.51-11
9.52-10	9.26-10	9.47-11	3.17-10	4.48-11	5.80-13	4.58-23	6.47-10	4.10-10
1.32-09	2.02-10	1.74-10	1.76-10	2.00-11	1.42-13	1.79-23	9.12-10	8.11-10
6.43-10	3.84-10	6.04-10	3.50-10	4.98-12	2.92-15	1.95-26	1.82-10	1.06-10
1.72-09	5.40-10	8.44-10	6.05-10	1.72-11	7.90-17	2.58-23	2.06-10	6.48-11
1.11-10	3.19-10	2.04-10	7.94-11	7.27-11	3.19-15	9.90-28	6.50-11	1.35-11
5.96-10	2.85-10	1.74-10	5.83-10	2.56-10	3.42-17	3.29-21	1.71-10	5.29-11
8.88-10	3.45-10	3.54-10	1.61-10	1.35-11	2.54-14	1.94-24	5.38-10	1.85-10
2.13-09	9.78-10	7.09-10	5.71-10	1.01-10	2.17-13	6.14-22		
7.00-10	2.63-10	1.44-10	2.21-10	4.82-11	1.90-13	5.71-22	6.23-10	2.00-10

PHI 135 TO 180 DEGREES

1.70-10	4.53-10	1.55-10	3.06-10	1.45-10	2.47-16	2.34-25	2.83-09	2.75-09
3.78-09	3.50-10	1.96-10	4.79-11	1.23-11	2.07-16	7.48-26	6.20-10	2.98-10
4.00-10	8.38-10	4.66-10	1.28-10	1.59-11	9.84-16	2.03-25	1.87-10	1.02-10
4.66-10	3.31-09	1.24-10	1.83-10	1.21-11	1.59-13	3.47-20	2.68-10	1.07-10
9.63-11	1.69-10	6.57-10	9.98-12	1.06-11	3.57-13	2.87-19	5.29-11	2.28-11
4.30-10	3.05-10	4.40-10	1.09-10	1.29-11	7.46-14	3.77-23	1.08-10	4.14-11
1.08-09	4.87-10	5.47-10	2.33-10	5.70-12	5.20-15	6.16-22	1.23-10	4.80-11
1.60-10	1.75-09	3.68-10	4.85-10	7.04-12	6.65-14	1.03-25	1.93-10	1.28-10
2.90-10	2.23-10	1.10-08	2.84-10	6.36-11	3.94-16	1.71-22	7.83-10	3.26-10
3.64-10	3.38-10	2.23-10	2.42-10	7.30-11	6.96-14	2.28-25	5.23-10	2.02-10
1.48-09	2.16-09	2.61-09	4.10-10	4.23-11	1.51-13	6.14-20		
4.80-10	1.09-09	1.95-09	1.17-10	2.45-11	9.40-14	5.11-20	7.02-10	2.08-10
							5.28-07	8.81-08

AIR SCATTERING 2.22 02 ENERGY 2.00 ANGLE 1.50 01 DIST. 1.98 03
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	1.82-07	1.55-07	0.	0.	0.	0.	0.	0.
4.00 01	0.	1.36-08	4.97-08	0.	0.	0.	0.	0.
6.00 01	0.	0.	5.01-09	3.48-08	0.	0.	0.	0.
8.00 01	0.	0.	0.	2.40-09	2.91-08	0.	0.	0.
9.00 01	0.	0.	0.	0.	1.85-08	5.86-09	0.	0.
1.00 02	0.	0.	0.	0.	0.	3.60-08	0.	0.
1.20 02	0.	0.	0.	0.	0.	2.89-08	0.	0.
1.40 02	0.	0.	0.	0.	0.	2.48-08	9.48-09	0.
1.60 02	0.	0.	0.	0.	0.	0.	5.59-08	0.
1.80 02	0.	0.	0.	0.	0.	0.	7.02-09	0.
	1.10-08	1.17-08	9.97-09	1.00-08	1.27-08	2.33-08	1.27-08	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	1.16-07	1.16-07	0.	0.	0.	0.	8.03-10	9.95-09
4.00 01	0.	8.68-09	3.17-08	0.	0.	0.	0.	7.82-10
6.00 01	0.	0.	3.19-09	2.21-08	4.38-09	0.	0.	6.27-10
8.00 01	0.	0.	0.	1.53-09	1.85-08	4.15-09	7.70-11	4.84-10
9.00 01	0.	0.	0.	0.	1.18-08	3.73-09	1.82-09	7.45-10
1.00 02	0.	0.	0.	0.	0.	2.29-08	4.51-10	3.96-10
1.20 02	0.	0.	0.	0.	0.	1.84-08	2.39-09	1.30-09
1.40 02	0.	0.	0.	0.	0.	1.58-08	1.37-08	1.75-10
1.60 02	0.	0.	0.	0.	5.65-12	7.61-10	4.12-08	5.22-10
1.80 02	0.	0.	0.	0.	0.	1.05-10	7.10-09	6.10-10
	6.98-09	8.48-09	6.35-09	6.39-09	9.25-09	1.63-08	1.25-08	1.86-09
	9.04-10	1.90-09	1.34-09	1.84-09	2.45-09	2.73-09	1.67-09	4.36-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	2.37-09	0.	0.	0.	9.84-10	4.56-09
4.00 01	0.	0.	0.	0.	0.	0.	2.12-09	7.07-09
6.00 01	0.	0.	0.	0.	0.	0.	1.00-09	1.15-09
8.00 01	0.	0.	0.	0.	0.	0.	2.66-10	2.06-10
9.00 01	0.	0.	0.	0.	0.	0.	6.17-10	2.23-10
1.00 02	0.	0.	0.	0.	0.	0.	2.79-10	5.07-10
1.20 02	0.	0.	0.	0.	0.	3.02-09	6.12-10	1.37-09
1.40 02	0.	0.	0.	0.	0.	9.58-15	6.13-10	1.36-10
1.60 02	0.	0.	0.	0.	3.35-10	2.53-10	8.24-10	2.31-10
1.80 02	0.	0.	0.	0.	3.49-13	6.35-11	4.97-09	2.78-10
	0.	0.	1.43-10	0.	5.81-11	1.03-09	1.74-09	2.54-09
	0.	0.	1.43-10	0.	5.79-11	9.87-10	5.44-10	1.24-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.68-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.96-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	9.37-10
8.00 01	0.	0.	0.	0.	0.	0.	1.44-10	1.30-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.35-10
1.00 02	0.	0.	0.	0.	0.	0.	1.23-09	9.93-11
1.20 02	0.	0.	0.	0.	7.32-13	5.84-15	6.25-09	1.18-09
1.40 02	0.	0.	0.	0.	5.83-12	9.94-11	9.53-10	6.24-10
1.60 02	0.	0.	0.	4.45-12	5.08-12	1.22-11	1.02-09	1.96-10
1.80 02	0.	0.	0.	0.	3.63-11	9.05-12	5.21-10	3.28-10
	0.	0.	0.	7.73-13	4.86-12	2.91-11	2.76-09	1.49-09
	0.	0.	0.	7.73-13	2.83-12	2.65-11	2.05-09	4.68-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	5.81-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.72-09
6.00 01	0.	0.	0.	0.	0.	0.	3.46-11	2.31-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	5.87-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.76-10
1.00 02	0.	0.	0.	0.	0.	0.	9.40-11	3.02-10
1.20 02	0.	0.	0.	0.	0.	0.	9.14-11	1.05-09
1.40 02	0.	0.	0.	0.	0.	0.	1.52-10	2.16-09
1.60 02	0.	0.	0.	0.	0.	3.61-12	2.34-10	4.10-10
1.80 02	0.	0.	0.	0.	9.13-13	4.24-11	1.51-09	6.13-10
	0.	0.	0.	0.	5.51-14	3.19-12	2.27-10	2.03-09
	0.	0.	0.	0.	5.50-14	2.63-12	8.52-11	5.90-10

1673257756 11 307204365155

AIR SCATTERING 2.22 02 ENERGY 2.00 ANGLE 1.50 01 DIST. 1.98 03
3.20 01 1.16 03 0. 0. 3.62 04 5.00 01 1.20 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.	1.56-07
0.	0.	0.	0.	0.	0.	0.	2.40-08
0.	0.	0.	0.	0.	0.	0.	8.96-09
0.	0.	0.	0.	0.	0.	0.	4.84-09
0.	0.	0.	0.	0.	0.	0.	3.42-09
0.	0.	0.	0.	0.	0.	0.	3.96-09
0.	0.	0.	0.	0.	0.	0.	3.18-09
0.	0.	0.	0.	0.	0.	0.	3.39-09
0.	0.	0.	0.	0.	0.	0.	3.91-09
0.	0.	0.	0.	0.	0.	0.	4.91-10
0.	0.	0.	0.	0.	0.	0.	2.14-08

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		
4.87-11	1.12-10	6.83-11	5.84-12	2.93-11	5.37-17	1.78-29	1.05-07	1.29-08
1.03-11	5.07-11	1.57-10	5.23-11	3.64-12	5.93-17	7.42-25	1.53-08	3.15-09
2.66-10	5.45-10	7.98-10	3.07-11	4.24-13	1.45-15	1.24-23	6.43-09	1.65-09
2.15-10	2.93-10	3.32-10	3.70-11	8.04-12	6.70-16	3.46-23	3.59-09	1.03-09
1.60-10	1.04-09	9.99-11	1.84-11	5.57-12	1.40-16	1.25-26	2.37-09	9.80-10
9.53-10	5.39-10	5.13-11	9.09-11	6.39-12	2.15-16	2.40-22	2.62-09	9.54-10
1.31-09	1.30-09	9.00-10	2.75-10	3.31-12	1.47-13	4.49-24	2.36-09	5.32-10
8.18-10	7.77-10	3.17-10	6.65-11	5.54-12	6.84-16	8.10-22	2.76-09	5.11-10
2.03-09	1.92-10	4.65-11	2.32-10	1.15-11	1.44-15	7.01-23	3.07-09	3.05-10
1.76-09	7.79-10	2.14-10	3.96-10	2.68-12	1.54-16	6.69-26	6.30-10	6.25-11
1.44-09	1.24-09	7.77-10	2.20-10	1.19-11	4.89-14	2.85-22		
3.72-10	4.49-10	2.47-10	7.67-11	3.38-12	4.78-14	1.67-22	1.48-08	1.14-09

PHI 45 TO 90 DEGREES

1.24-09	5.05-10	4.30-11	1.42-11	1.98-13	4.24-16	7.38-31	1.30-09	9.68-10
1.65-10	7.56-10	3.43-10	1.52-10	6.68-11	8.82-20	7.15-25	5.35-10	3.64-10
2.63-10	3.68-10	4.37-10	2.25-11	1.55-11	2.75-16	1.31-26	1.54-10	8.22-11
1.36-09	2.99-10	2.00-10	7.85-11	4.23-12	6.87-16	1.18-25	8.98-11	4.28-11
8.13-11	2.88-10	2.64-10	1.01-10	1.08-12	2.00-16	6.02-24	7.05-11	3.81-11
1.45-10	7.31-10	1.99-10	1.11-10	1.23-12	2.24-16	4.80-24	7.28-11	2.78-11
7.04-11	5.34-11	1.14-10	9.50-11	8.92-12	1.45-16	2.41-23	4.51-10	3.37-10
2.91-10	9.75-09	5.36-10	7.97-11	2.68-11	2.09-16	3.63-24	3.06-10	2.30-10
8.03-10	1.16-09	1.30-10	3.12-11	8.81-12	6.46-17	1.00-25	2.07-10	7.09-11
3.80-10	2.46-10	4.48-11	3.37-11	8.66-12	1.01-18	1.58-26	3.90-10	2.48-10
9.18-10	3.36-09	5.29-10	1.55-10	2.96-11	5.11-16	1.09-23		
4.22-10	2.55-09	1.26-10	3.70-11	1.66-11	2.44-16	8.02-24	5.55-10	1.66-10

PHI 90 TO 135 DEGREES

2.73-09	5.20-10	8.59-12	4.82-11	1.58-13	1.66-21	1.69-28	1.95-10	9.49-11
5.05-10	2.22-10	8.19-12	1.36-09	2.34-12	1.78-16	4.15-25	5.21-11	2.19-11
3.51-10	1.51-10	1.27-10	1.72-09	4.66-12	3.53-15	7.09-23	8.28-11	3.52-11
4.22-10	3.14-10	8.11-11	1.48-10	1.30-12	7.47-16	1.06-21	1.01-10	5.27-11
2.31-10	2.36-10	3.29-10	8.97-11	2.67-11	1.68-16	8.48-26	3.34-11	9.65-12
3.34-10	9.68-10	6.49-10	6.42-11	1.86-12	1.27-17	2.63-29	1.40-10	8.81-11
7.48-10	5.42-10	6.56-10	2.72-11	1.17-12	2.37-16	9.99-23	5.50-10	4.36-10
1.80-10	4.59-10	2.06-10	2.68-11	1.68-12	3.94-15	4.20-25	1.31-10	5.09-11
1.09-10	2.88-10	2.97-10	8.01-11	9.09-12	3.07-17	5.92-25	1.02-10	4.93-11
8.65-10	1.22-08	5.69-11	1.82-10	7.51-13	1.70-19	5.35-31	3.86-10	2.71-10
9.40-10	1.51-09	5.56-10	8.12-10	9.49-12	2.38-15	3.96-22		
2.12-10	7.09-10	2.56-10	6.00-10	4.43-12	1.28-15	3.45-22	3.61-10	1.47-10

PHI 135 TO 180 DEGREES

1.18-13	1.19-11	1.49-10	1.02-11	9.33-14	3.99-19	3.37-29	2.94-10	1.44-10
1.14-09	9.28-10	4.92-11	2.18-11	1.08-12	1.86-18	1.60-26	1.51-10	6.08-11
9.61-10	2.09-10	1.41-09	1.69-11	2.11-12	1.48-15	3.10-23	8.18-11	4.22-11
3.18-10	5.59-10	1.77-10	1.35-10	9.34-12	3.72-15	1.22-23	5.92-11	1.75-11
2.88-10	2.88-10	1.37-10	1.42-10	7.69-12	1.60-16	8.19-23	3.53-11	1.14-11
5.71-10	2.64-10	3.26-09	2.44-10	1.07-11	2.55-17	6.69-26	1.16-10	7.05-11
2.43-09	1.78-10	1.15-09	2.89-11	1.07-11	3.24-16	3.42-25	1.74-10	8.90-11
2.49-10	1.81-09	1.36-10	5.06-11	2.18-12	1.89-15	1.16-26	1.74-10	9.91-11
5.72-10	6.77-10	1.19-10	4.52-11	8.60-12	3.20-17	1.09-21	7.71-11	1.87-11
2.84-09	4.83-10	2.58-10	1.31-10	2.96-13	1.24-18	7.91-29	2.61-10	1.33-10
1.84-09	1.18-09	1.49-09	1.59-10	1.26-11	2.25-15	2.16-22		
8.35-10	4.89-10	7.65-10	5.52-11	3.22-12	1.28-15	1.90-22	2.44-10	6.03-11
							2.51-08	1.90-09

AIR SCATTERING 2.23 02 ENERGY 2.00 ANGLE 3.00 01 DIST. 1.98 03
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.	6.89-08	5.48-08	0.	0.	0.	0.	0.
4.00 01	0.	0.	9.19-09	2.00-08	0.	0.	0.	0.
6.00 01	0.	0.	0.	5.62-09	1.37-08	0.	0.	0.
8.00 01	0.	0.	0.	0.	8.21-09	6.96-09	0.	0.
9.00 01	0.	0.	0.	0.	0.	1.38-08	0.	0.
1.00 02	0.	0.	0.	0.	0.	1.34-08	0.	0.
T.20 02	0.	0.	0.	0.	0.	1.23-08	0.	0.
T.40 02	0.	0.	0.	0.	0.	4.47-10	1.55-08	0.
1.60 02	0.	0.	0.	0.	0.	0.	2.69-09	0.
T.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	4.15-09	4.90-09	4.97-09	6.32-09	1.11-08	4.59-09	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.	4.39-08	3.49-08	0.	0.	1.06-09	2.03-09	5.28-09
4.00 01	0.	0.	5.85-09	1.66-08	0.	8.03-10	8.48-10	2.85-09
6.00 01	0.	0.	0.	3.58-09	8.71-09	0.	0.	1.59-09
8.00 01	0.	0.	0.	0.	5.23-09	4.43-09	8.02-10	1.63-09
9.00 01	0.	0.	0.	0.	0.	1.24-08	1.50-10	9.12-10
1.00 02	0.	0.	0.	0.	0.	9.02-09	9.92-10	2.92-10
T.20 02	0.	0.	0.	0.	0.	8.49-09	3.36-09	3.71-10
1.40 02	0.	0.	0.	0.	0.	7.91-10	1.29-08	5.21-10
T.60 02	0.	0.	0.	0.	5.31-16	1.67-11	5.19-09	1.02-09
T.80 02	0.	0.	0.	0.	3.91-13	3.83-12	1.87-09	3.40-10
	0.	2.64-09	3.12-09	3.83-09	4.02-09	8.35-09	6.27-09	2.43-09
	0.	3.99-10	3.83-10	7.51-10	6.24-10	8.66-10	5.33-10	4.19-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	1.74-09	0.	4.98-09	3.49-09	1.61-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.33-09
6.00 01	0.	0.	0.	0.	0.	0.	4.94-11	1.06-09
8.00 01	0.	0.	0.	0.	0.	2.91-10	5.59-10	1.09-09
9.00 01	0.	0.	0.	0.	0.	0.	1.44-10	1.32-09
1.00 02	0.	0.	0.	0.	0.	0.	1.60-09	5.70-10
1.20 02	0.	0.	0.	0.	0.	1.97-12	4.49-10	5.44-10
1.40 02	0.	0.	0.	0.	0.	1.41-11	1.17-09	3.59-10
1.60 02	0.	0.	0.	0.	9.71-14	3.99-12	4.74-10	1.29-10
1.80 02	0.	0.	0.	0.	0.	1.22-11	9.60-10	4.91-10
	0.	0.	0.	1.05-10	1.69-14	4.01-10	1.31-09	1.53-09
	0.	0.	0.	1.05-10	1.69-14	2.85-10	4.17-10	2.75-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	8.48-10
4.00 01	0.	0.	0.	0.	0.	0.	1.69-10	1.24-10
6.00 01	0.	0.	0.	0.	0.	0.	3.49-10	1.89-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	6.43-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.04-10
1.00 02	0.	0.	0.	0.	0.	0.	3.26-11	4.47-10
1.20 02	0.	0.	0.	0.	0.	3.79-11	5.10-11	9.94-09
T.40 02	0.	0.	0.	0.	2.23-12	1.42-11	9.26-11	3.97-10
T.60 02	0.	0.	0.	0.	0.	9.78-12	4.89-11	6.80-10
T.80 02	0.	0.	0.	0.	0.	1.96-10	7.33-10	5.30-11
	0.	0.	0.	0.	5.93-13	2.97-11	2.22-10	4.39-09
	0.	0.	0.	0.	5.93-13	1.76-11	1.05-10	3.24-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	4.28-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.92-10
6.00 01	0.	0.	0.	0.	0.	0.	6.60-10	1.77-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.73-10
9.00 01	0.	0.	0.	0.	0.	0.	1.25-11	2.22-11
1.00 02	0.	0.	0.	0.	0.	0.	5.33-12	1.06-10
1.20 02	0.	0.	0.	0.	0.	1.12-13	2.36-16	5.26-10
1.40 02	0.	0.	0.	0.	0.	0.	1.02-10	4.44-10
1.60 02	0.	0.	0.	0.	0.	1.23-12	1.26-10	2.97-10
1.80 02	0.	0.	0.	0.	2.58-13	1.19-09	2.65-10	1.06-09
	0.	0.	0.	0.	1.56-14	7.19-11	2.43-10	6.17-10
	0.	0.	0.	0.	1.56-14	7.13-11	1.78-10	1.38-10

150460375401 077713507155

AIR SCATTERING 2.23 02 ENERGY 2.00 ANGLE 3.00 01 DIST. 1.98 03

4.30 01	1.74 03	0.	0.	5.40 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.	4.26-08
0.	0.	0.	0.	0.	0.	0.	7.68-09
0.	0.	0.	0.	0.	0.	0.	3.18-09
0.	0.	0.	0.	0.	0.	0.	2.00-09
0.	0.	0.	0.	0.	0.	0.	1.52-09
0.	0.	0.	0.	0.	0.	0.	1.47-09
0.	0.	0.	0.	0.	0.	0.	1.35-09
0.	0.	0.	0.	0.	0.	0.	1.13-09
0.	0.	0.	0.	0.	0.	0.	1.88-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	6.70-09

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		
2.86-10	2.60-10	7.02-12	4.90-12	1.19-11	5.62-22	3.91-25	2.77-08	2.91-09
9.97-11	6.49-11	8.71-11	1.35-10	9.94-12	7.23-19	7.12-22	5.96-09	9.69-10
2.18-09	1.34-10	3.33-10	1.49-10	1.69-11	5.51-15	9.61-22	2.19-09	3.67-10
3.30-10	4.55-10	4.96-10	7.32-11	3.45-11	3.96-16	1.56-23	1.44-09	2.35-10
1.69-09	6.79-10	3.06-10	2.52-10	5.25-11	3.05-17	1.03-24	1.50-09	3.87-10
6.91-10	4.70-10	6.41-10	2.56-11	9.42-12	3.00-15	2.05-23	1.13-09	2.21-10
1.06-09	7.12-10	7.34-10	1.52-10	6.68-12	2.93-15	1.78-20	1.26-09	1.50-10
1.44-09	1.19-09	2.35-09	1.77-10	1.36-11	5.56-15	1.64-23	1.14-09	1.00-10
7.90-10	4.41-10	4.81-10	3.32-11	1.56-11	1.73-14	9.53-23	4.65-10	7.49-11
2.18-10	1.61-10	6.24-10	2.71-11	5.82-13	1.40-15	9.17-26	1.80-10	5.36-11
2.03-09	1.05-09	1.42-09	2.39-10	3.75-11	7.64-15	6.23-21		
6.05-10	2.53-10	4.38-10	5.02-11	1.33-11	3.04-15	5.75-21	5.02-09	2.87-10

PHI 45 TO 90 DEGREES

4.02-09	2.93-10	9.46-11	5.41-12	5.37-12	1.10-17	2.16-28	1.30-09	6.45-10
2.71-10	1.59-10	1.20-10	7.74-11	4.37-12	1.43-15	1.55-24	8.32-11	2.77-11
5.82-10	2.26-10	3.65-11	4.18-10	2.65-12	1.64-15	2.68-19	8.79-11	2.31-11
5.92-10	2.51-10	1.68-10	3.94-11	5.42-12	3.55-16	1.74-19	1.57-10	4.72-11
1.58-09	1.75-10	2.54-10	6.50-11	7.22-12	2.56-17	3.20-31	1.43-10	4.46-11
3.72-10	2.24-10	2.88-10	9.95-11	1.14-10	7.18-13	5.51-19	1.67-10	9.40-11
4.41-10	7.52-10	4.17-10	1.02-10	3.13-12	5.57-16	1.89-21	1.02-10	2.93-11
1.47-10	7.74-10	5.79-10	5.17-11	2.46-11	3.89-14	4.95-24	1.37-10	5.90-11
3.02-10	1.91-10	4.00-10	1.27-10	4.65-11	7.65-14	7.69-21	6.53-11	1.62-11
2.44-10	6.99-10	1.78-10	2.79-11	2.24-12	1.06-16	2.22-21	1.23-10	5.29-11
1.23-09	7.83-10	5.55-10	2.37-10	4.04-11	1.49-13	2.26-19		
2.64-10	1.55-10	1.57-10	8.48-11	1.80-11	1.25-13	1.15-19	3.19-10	5.40-11

PHI 90 TO 135 DEGREES

2.83-10	4.64-10	1.10-10	2.04-11	5.47-12	8.67-17	0.	6.62-11	2.65-11
2.82-10	2.76-10	1.85-10	2.06-10	1.25-12	1.18-16	3.48-21	4.06-11	1.46-11
1.70-10	1.14-09	1.82-10	1.85-10	1.29-10	1.89-16	4.49-22	1.59-10	9.31-11
4.14-10	3.92-10	1.13-10	6.68-11	7.92-13	1.34-15	4.10-25	5.94-11	3.07-11
1.23-10	8.33-10	3.48-09	2.49-11	2.42-11	1.09-14	1.55-20	1.10-10	6.92-11
6.14-10	1.94-10	3.77-11	6.63-12	7.06-11	3.88-15	2.93-17	5.29-11	2.26-11
2.16-10	1.65-09	1.17-10	6.31-11	1.09-10	2.16-15	1.02-22	5.56-10	4.92-10
3.84-10	2.20-09	9.15-11	1.32-10	2.28-11	2.87-15	1.85-20	9.75-11	4.58-11
3.36-10	3.34-10	1.66-10	3.58-11	5.55-12	2.61-15	2.52-22	6.24-11	1.95-11
1.83-09	4.15-11	5.97-10	2.52-11	3.17-12	3.15-17	2.48-24	1.54-10	6.69-11
7.10-10	1.87-09	8.62-10	1.77-10	9.14-11	5.00-15	5.09-18		
1.74-10	6.72-10	5.82-10	5.69-11	4.05-11	1.87-15	5.08-18	3.29-10	1.64-10

PHI 135 TO 180 DEGREES

5.69-10	2.84-09	1.26-10	1.69-11	1.26-11	9.39-17	5.36-33	9.35-11	6.88-11
3.07-10	5.08-10	1.12-10	1.18-10	3.07-11	1.46-15	4.71-23	4.16-11	1.84-11
1.27-10	2.55-11	7.50-11	2.37-10	2.80-11	1.27-14	1.07-21	6.44-11	4.65-11
2.54-10	3.65-10	2.57-10	4.73-10	3.75-12	7.71-15	5.25-23	4.15-11	1.25-11
1.35-10	3.75-10	4.91-10	1.54-10	6.05-12	1.64-18	4.60-24	2.73-11	1.09-11
1.03-10	3.44-11	8.17-11	1.77-10	8.95-12	2.52-16	4.83-26	1.37-11	3.46-12
2.58-10	3.54-10	3.35-10	1.12-10	3.03-12	1.64-16	9.61-23	5.20-11	1.60-11
3.60-10	3.85-10	4.73-10	1.54-10	8.37-12	1.87-16	1.48-23	6.26-11	1.84-11
1.31-09	6.30-10	6.29-10	2.69-10	1.21-11	1.43-13	6.77-23	1.01-10	3.45-11
7.89-10	1.97-10	4.05-11	1.59-11	1.36-11	3.68-17	1.02-23	2.37-10	1.37-10
7.00-10	7.95-10	5.77-10	4.22-10	2.35-11	3.11-14	3.59-22		
1.64-10	2.21-10	1.64-10	2.03-10	1.16-11	2.51-14	2.89-22	1.16-10	2.00-11
							9.07-09	5.68-10

AIR SCATTERING 2.24 02 ENERGY 2.00 ANGLE 6.00 01 DIST. 1.98 03
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.	4.10-08	9.28-09	0.	0.	0.
4.00 01	0.	0.	0.	0.	1.53-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	8.95-10	9.40-09	0.	0.
8.00 01	0.	0.	0.	0.	0.	6.91-09	0.	0.
9.00 01	0.	0.	0.	0.	0.	5.10-09	0.	0.
1.00 02	0.	0.	0.	0.	0.	3.47-10	5.68-09	0.
1.20 02	0.	0.	0.	0.	0.	0.	2.18-09	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.	2.47-09	3.46-09	5.70-09	1.70-09	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.	2.61-08	5.91-09	0.	0.	7.83-10
4.00 01	0.	0.	0.	1.08-09	9.76-09	3.96-09	7.04-10	1.70-09
6.00 01	0.	0.	0.	0.	9.95-10	5.99-09	6.93-10	1.62-09
8.00 01	0.	0.	0.	0.	0.	5.48-09	1.34-09	9.28-10
9.00 01	0.	0.	0.	0.	0.	4.38-09	2.48-09	1.84-10
1.00 02	0.	0.	0.	0.	0.	6.51-10	4.91-09	2.54-10
1.20 02	0.	0.	0.	0.	0.	3.95-11	3.02-09	1.79-09
1.40 02	0.	0.	0.	0.	0.	5.28-12	3.13-09	3.21-10
1.60 02	0.	0.	0.	0.	0.	1.44-12	9.79-10	4.86-11
1.80 02	0.	0.	0.	0.	0.	9.12-10	4.09-11	2.85-11
	0.	0.	0.	1.76-09	2.32-09	5.01-09	4.02-09	1.83-09
	0.	0.	0.	3.13-10	3.29-10	7.37-10	8.49-10	4.67-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	9.78-10
4.00 01	0.	0.	0.	0.	0.	5.02-10	3.87-09	1.94-09
6.00 01	0.	0.	0.	0.	0.	0.	5.99-10	2.01-10
8.00 01	0.	0.	0.	0.	0.	0.	9.19-12	3.43-10
9.00 01	0.	0.	0.	0.	0.	0.	5.31-11	1.46-10
1.00 02	0.	0.	0.	0.	0.	0.	2.50-09	1.73-10
1.20 02	0.	0.	0.	0.	0.	0.	1.98-10	7.10-10
1.40 02	0.	0.	0.	0.	0.	0.	2.04-10	4.02-10
1.60 02	0.	0.	0.	0.	1.50-11	1.50-12	8.07-10	6.32-10
1.80 02	0.	0.	0.	0.	0.	5.74-11	4.40-12	2.68-10
	0.	0.	0.	0.	2.60-12	9.10-11	1.54-09	1.08-09
	0.	0.	0.	0.	2.60-12	8.73-11	7.94-10	2.52-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.53-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.15-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.55-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.23-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.09-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.53-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.15-10
1.40 02	0.	0.	0.	0.	0.	0.	5.61-12	4.38-11
1.60 02	0.	0.	0.	0.	0.	2.93-13	5.67-11	1.80-10
1.80 02	0.	0.	0.	0.	0.	0.	2.04-14	1.02-10
	0.	0.	0.	0.	0.	5.09-14	1.13-11	9.39-10
	0.	0.	0.	0.	0.	5.08-14	9.95-12	2.67-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	4.96-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	6.36-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.94-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.41-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.53-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.33-10
1.20 02	0.	0.	0.	0.	0.	0.	7.56-11	2.48-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	5.26-11
1.60 02	0.	0.	0.	0.	0.	0.	3.18-12	8.60-11
1.80 02	0.	0.	0.	0.	0.	0.	1.08-10	2.02-10
	0.	0.	0.	0.	0.	0.	3.18-11	4.77-10
	0.	0.	0.	0.	0.	0.	2.54-11	1.27-10

335660555541 254200712705

AIR SCATTERING 2.24 02 ENERGY 2.00 ANGLE 6.00 01 DIST. 1.98 03
2.40 01 1.17 03 0. 0. 3.57 04 5.00 01 1.20 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.	9.59-09
0.	0.	0.	0.	0.	0.	0.	2.30-09
0.	0.	0.	0.	0.	0.	0.	1.17-09
0.	0.	0.	0.	0.	0.	0.	7.60-10
0.	0.	0.	0.	0.	0.	0.	5.61-10
0.	0.	0.	0.	0.	0.	0.	4.36-10
0.	0.	0.	0.	0.	0.	0.	1.53-10
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.	
							1.76-09

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		
1.51-10	5.44-11	1.00-11	4.90-12	2.66-12	1.21-17	8.69-32	6.15-09	9.00-10
7.88-10	4.60-10	2.44-10	5.54-11	1.80-12	7.80-16	1.94-25	2.29-09	5.45-10
3.32-10	1.06-09	1.42-09	1.26-09	2.45-10	5.27-17	5.51-25	1.02-09	1.49-10
8.64-10	4.64-10	8.46-10	1.57-09	6.89-12	3.45-15	8.46-24	8.18-10	1.16-10
1.05-09	5.70-10	5.17-10	2.01-09	5.02-10	1.89-16	6.82-26	7.58-10	1.24-10
5.20-10	9.57-10	1.99-09	3.86-10	5.02-12	8.66-14	1.55-23	5.13-10	6.75-11
8.93-10	8.12-10	4.29-10	5.43-09	1.34-10	2.17-15	1.21-23	4.21-10	8.25-11
3.26-10	8.84-10	1.89-10	7.14-11	3.14-10	9.46-16	3.80-20	2.77-10	2.04-10
7.48-11	1.55-10	2.04-10	7.53-11	1.38-11	5.46-16	4.17-23	8.25-11	5.37-11
5.20-10	3.56-12	9.17-11	1.08-10	1.79-12	4.67-19	3.18-29	1.26-10	1.02-10
1.21-09	1.31-09	1.36-09	3.19-09	2.86-10	1.74-14	1.68-23		
2.08-10	2.77-10	4.77-10	2.22-09	1.65-10	1.48-14	8.86-24	1.76-09	1.42-10

PHI 45 TO 90 DEGREES

3.54-11	1.74-10	2.01-09	1.05-12	9.22-14	1.23-15	1.41-22	9.46-11	4.08-11
6.73-10	8.24-10	5.86-10	5.43-11	1.30-11	2.96-16	6.30-26	4.80-10	2.82-10
1.01-09	2.76-10	4.38-10	4.71-11	4.09-12	5.18-15	7.95-25	1.04-10	4.75-11
1.99-10	2.51-10	1.85-10	3.74-10	5.43-12	3.25-14	1.73-21	3.85-11	8.39-12
6.70-10	2.14-10	3.86-10	3.20-11	6.82-12	5.91-15	2.86-25	4.84-11	1.39-11
4.68-10	6.76-10	5.87-10	5.60-11	1.50-11	1.04-17	6.81-26	2.29-10	1.50-10
1.76-10	2.56-10	1.91-10	2.11-11	2.54-12	2.63-16	5.46-24	6.58-11	2.43-11
1.49-10	2.80-10	2.02-10	1.96-09	4.02-11	1.12-16	7.28-25	7.05-11	2.52-11
5.04-10	9.59-10	1.07-10	3.66-11	1.25-12	1.21-17	1.91-23	1.27-10	6.40-11
3.68-10	2.56-11	5.04-10	2.99-11	1.47-12	7.80-17	5.49-29	4.43-11	1.93-11
8.22-10	7.90-10	7.34-10	6.95-10	2.07-11	1.32-14	5.79-22		
2.04-10	1.82-10	1.60-10	5.15-10	9.81-12	1.05-14	5.65-22	2.42-10	6.04-11

PHI 90 TO 135 DEGREES

1.23-09	9.00-11	1.85-11	3.76-11	2.38-13	3.45-18	7.92-33	5.50-11	4.47-11
1.52-10	1.81-09	3.46-10	2.40-10	2.62-12	1.14-16	8.65-24	1.18-10	5.55-11
1.79-10	9.63-10	4.25-10	2.21-10	4.13-12	6.16-16	2.45-25	7.31-11	2.09-11
5.22-10	2.33-10	2.03-10	4.05-11	2.25-10	9.30-14	7.42-23	9.25-11	3.50-11
7.82-11	6.46-11	2.05-10	9.42-10	2.92-11	6.72-18	8.45-24	2.06-11	8.98-12
1.97-10	6.38-10	5.89-10	5.95-11	7.87-11	2.55-18	6.27-29	4.32-11	1.69-11
1.29-10	9.09-10	5.79-11	3.87-11	5.45-11	1.97-16	4.06-25	3.93-11	1.36-11
2.34-10	9.08-11	8.53-11	5.74-10	7.36-12	9.21-16	5.58-25	2.07-11	6.75-12
1.37-10	3.39-10	9.47-11	4.73-11	2.88-11	3.54-18	3.44-24	2.87-11	1.01-11
5.67-11	2.82-11	8.27-11	2.66-11	3.21-11	4.82-16	8.25-29	1.01-11	3.88-12
4.98-10	1.16-09	4.41-10	4.65-10	1.20-10	3.09-14	2.81-23		
1.17-10	4.98-10	1.27-10	2.13-10	7.20-11	2.95-14	2.42-23	1.08-10	2.20-11

PHI 135 TO 180 DEGREES

5.39-12	8.38-11	4.75-11	1.55-12	7.38-11	3.83-16	2.66-39	2.87-11	1.61-11
5.52-10	4.64-11	2.84-10	2.04-10	2.82-12	2.96-17	1.80-24	6.05-11	2.82-11
1.88-10	8.68-10	2.23-10	9.59-11	1.29-12	1.11-16	4.88-24	4.28-11	1.78-11
4.86-10	1.84-10	5.60-10	1.22-10	2.36-11	7.87-16	8.16-25	4.66-11	1.53-11
3.01-11	6.56-10	1.62-09	9.88-11	6.08-13	1.45-17	1.69-23	6.79-11	4.80-11
5.17-11	3.36-10	4.43-11	8.92-11	4.90-13	1.34-20	1.25-29	1.84-11	7.63-12
9.85-11	5.73-10	2.46-10	1.11-10	1.17-11	4.23-17	1.10-25	4.11-11	2.66-11
9.38-11	7.83-10	5.94-11	4.14-10	7.33-12	1.44-18	5.18-26	3.02-11	1.77-11
7.07-10	5.87-10	8.50-10	7.31-10	1.20-11	7.58-17	4.65-26	6.85-11	3.05-11
7.71-10	1.28-09	8.15-11	3.79-11	8.01-12	1.14-14	2.08-24	7.83-11	3.19-11
5.46-10	1.05-09	8.32-10	4.09-10	2.15-11	1.03-15	5.00-24		
1.46-10	4.37-10	3.44-10	1.54-10	9.27-12	7.27-16	3.22-24	9.19-11	2.38-11
							3.46-09	2.69-10

AIR SCATTERING 2.25 02 ENERGY 2.00 ANGLE 9.00 01 DIST. 1.98 03
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.	2.09-08	1.77-08	0.	0.
4.00 01	0.	0.	0.	0.	0.	1.26-08	0.	0.
6.00 01	0.	0.	0.	0.	0.	6.18-09	0.	0.
8.00 01	0.	0.	0.	0.	0.	1.54-10	3.87-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	3.18-10	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.	1.26-09	4.95-09	1.32-09	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.	1.33-08	1.38-08	1.93-12	1.09-09
4.00 01	0.	0.	0.	0.	4.60-10	8.66-09	1.09-09	2.23-09
6.00 01	0.	0.	0.	0.	0.	4.71-09	2.04-09	7.63-10
8.00 01	0.	0.	0.	0.	0.	1.80-10	4.05-09	2.82-10
9.00 01	0.	0.	0.	0.	0.	4.78-11	1.85-09	3.43-10
1.00 02	0.	0.	0.	0.	0.	5.23-13	1.05-09	2.50-10
1.20 02	0.	0.	0.	0.	0.	2.16-13	4.53-10	7.22-11
1.40 02	0.	0.	0.	0.	0.	7.23-12	4.72-10	6.08-10
1.60 02	0.	0.	0.	0.	0.	0.	3.16-11	3.12-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	5.37-10
	0.	0.	0.	0.	8.84-10	3.65-09	2.84-09	1.12-09
	0.	0.	0.	0.	1.72-10	3.32-10	2.75-10	2.62-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.94-09	8.72-10
4.00 01	0.	0.	0.	0.	0.	0.	2.08-10	9.27-10
6.00 01	0.	0.	0.	0.	0.	0.	1.16-10	2.42-10
8.00 01	0.	0.	0.	0.	0.	0.	3.61-10	1.10-09
9.00 01	0.	0.	0.	0.	0.	0.	7.44-11	1.26-10
1.00 02	0.	0.	0.	0.	0.	0.	2.18-10	1.02-09
1.20 02	0.	0.	0.	0.	0.	0.	1.74-10	5.27-10
1.40 02	0.	0.	0.	0.	0.	0.	1.89-10	1.77-09
1.60 02	0.	0.	0.	0.	0.	0.	2.62-12	6.13-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.33-09
	0.	0.	0.	0.	0.	0.	5.20-10	1.66-09
	0.	0.	0.	0.	0.	0.	2.10-10	5.49-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.00-09
4.00 01	0.	0.	0.	0.	0.	0.	2.52-10	3.54-10
6.00 01	0.	0.	0.	0.	0.	0.	1.20-09	4.60-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.01-09
9.00 01	0.	0.	0.	0.	0.	4.04-13	0.	5.19-10
1.00 02	0.	0.	0.	0.	0.	3.55-11	0.	3.82-10
1.20 02	0.	0.	0.	0.	0.	1.96-12	0.	1.01-10
1.40 02	0.	0.	0.	0.	0.	2.86-12	1.13-10	3.62-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.82-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.55-10
	0.	0.	0.	0.	0.	7.64-12	3.94-10	9.08-10
	0.	0.	0.	0.	0.	6.25-12	3.24-10	3.38-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.43-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.75-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	5.23-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.90-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	6.25-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	8.32-11
1.20 02	0.	0.	0.	0.	0.	0.	3.26-12	1.32-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.26-11
1.60 02	0.	0.	0.	0.	0.	0.	1.75-12	8.63-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	3.59-10
	0.	0.	0.	0.	0.	0.	1.37-12	3.74-10
	0.	0.	0.	0.	0.	0.	1.11-12	1.54-10

12742543730 1 0646370743 35

AIR SCATTERING 2.25 02 ENERGY 2.00 ANGLE 9.00 01 DIST. 1.98 03
2.80 01 1.16 03 0. 0. 3.59 04 5.00 01 1.20 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.	5.09-09
0.	0.	0.	0.	0.	0.	0.	1.39-09
0.	0.	0.	0.	0.	0.	0.	6.79-10
0.	0.	0.	0.	0.	0.	0.	2.88-10
0.	0.	0.	0.	0.	0.	0.	2.22-11
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.	
							8.26-10

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			
5.31-10	3.91-10	3.89-11	1.88-09	5.12-11	2.61-15	2.60-27	3.62-09	5.82-10	
2.25-09	6.56-10	2.63-10	9.56-11	7.65-12	1.17-18	4.13-24	1.31-09	1.86-10	
1.17-09	3.50-10	7.11-09	1.46-10	2.77-11	2.51-14	7.11-22	8.93-10	1.64-10	
7.44-10	5.90-10	2.53-10	2.24-10	3.27-11	4.42-15	9.65-19	3.66-10	2.98-11	
5.20-10	1.69-09	2.29-10	5.99-11	1.30-11	3.64-14	4.35-26	2.17-10	4.69-11	
5.08-10	5.68-10	4.95-10	3.98-10	5.17-11	5.84-15	2.39-25	1.32-10	4.60-11	
2.51-10	2.58-10	2.16-10	5.15-11	1.48-11	8.91-17	3.64-24	5.55-11	1.25-11	
4.68-10	1.60-10	7.46-11	3.04-11	9.81-12	1.72-16	2.34-25	8.68-11	3.23-11	
1.36-10	9.71-11	1.70-10	7.03-11	8.01-12	2.33-14	1.75-22	2.92-11	1.04-11	
2.92-11	7.65-10	3.78-10	1.18-11	9.93-12	8.47-16	2.73-25	5.40-11	2.53-11	
1.39-09	1.00-09	2.29-09	3.59-10	4.31-11	1.98-14	3.15-19			
3.99-10	2.39-10	1.86-09	1.39-10	1.57-11	1.11-14	3.15-19	9.13-10	7.04-11	

PHI 45 TO 90 DEGREES

7.79-10	1.30-10	1.82-10	3.17-11	2.28-12	2.17-15	2.21-28	2.85-10	2.09-10	
6.87-10	1.94-10	1.98-10	4.86-11	1.46-10	1.59-18	2.66-24	9.62-11	5.15-11	
5.34-10	2.72-10	2.47-10	3.02-11	5.58-12	9.88-17	2.07-21	5.13-11	1.36-11	
6.66-10	5.80-10	5.94-10	1.50-10	2.58-11	7.82-12	2.70-23	1.32-10	4.06-11	
5.18-11	4.56-10	2.31-10	2.82-10	1.30-11	2.55-12	1.05-23	3.19-11	5.60-12	
3.15-10	1.30-10	3.77-10	7.87-11	2.00-11	4.03-13	1.04-23	8.92-11	4.63-11	
1.39-10	1.15-10	7.21-11	2.05-10	9.60-11	2.04-16	2.54-23	5.07-11	2.08-11	
1.64-10	1.70-10	9.24-11	1.15-10	1.61-12	6.99-16	1.10-22	1.15-10	9.17-11	
8.62-11	3.69-10	6.54-11	2.47-12	1.97-11	2.14-16	4.40-27	4.43-11	1.96-11	
8.97-10	3.68-10	3.16-11	1.04-11	1.82-12	3.52-15	1.76-26	1.08-10	6.86-11	
7.48-10	5.74-10	4.72-10	2.28-10	7.64-11	3.07-12	6.01-22			
2.04-10	1.10-10	1.20-10	7.32-11	3.88-11	3.06-12	5.51-22	1.73-10	3.46-11	

PHI 90 TO 135 DEGREES

4.41-10	1.69-11	2.05-10	1.43-12	1.11-11	7.73-19	2.66-24	7.05-11	3.65-11	
1.29-10	3.44-09	2.82-09	2.20-10	5.95-11	3.92-16	2.87-27	1.82-10	8.73-11	
2.88-11	1.50-11	2.15-10	5.80-10	1.97-12	3.18-16	1.30-25	1.19-10	8.48-11	
1.51-10	1.69-10	1.37-10	3.65-10	2.06-12	1.02-16	1.49-24	6.66-11	4.48-11	
3.01-10	3.14-09	1.16-10	1.61-10	2.83-13	4.77-20	7.96-32	1.16-10	7.58-11	
2.45-10	1.03-10	2.14-10	6.53-11	3.48-11	1.08-18	3.02-21	3.96-11	1.69-11	
2.26-10	1.52-10	2.26-10	3.81-11	2.59-11	3.10-15	1.36-21	2.22-11	7.36-12	
1.51-10	1.09-10	1.82-10	1.84-11	2.91-11	1.50-16	3.68-23	3.85-11	1.84-11	
9.96-10	6.99-11	2.08-10	3.20-11	2.37-12	2.50-21	2.70-16	5.11-11	2.68-11	
9.80-14	2.78-10	1.18-10	3.22-10	2.00-11	9.56-17	3.30-20	2.52-11	1.39-11	
4.87-10	1.33-09	8.27-10	3.94-10	3.61-11	1.29-15	3.41-21			
1.62-10	7.01-10	4.82-10	1.81-10	1.47-11	8.92-16	2.34-21	1.44-10	3.62-11	

PHI 135 TO 180 DEGREES

1.98-10	2.81-10	2.69-10	8.24-11	5.07-13	2.17-15	4.29-22	1.41-10	1.19-10	
3.24-10	1.90-09	5.22-10	1.00-10	3.33-12	8.93-16	5.88-33	9.25-11	3.42-11	
1.22-10	1.02-10	2.37-09	2.55-10	9.66-11	1.03-17	1.02-25	6.04-11	3.87-11	
1.02-10	3.64-10	1.79-10	1.12-09	3.44-12	5.97-16	2.86-23	3.67-11	1.07-11	
1.41-10	1.58-10	3.83-10	3.28-11	1.60-11	3.35-19	3.14-27	2.01-11	8.66-12	
3.78-11	1.79-10	9.71-12	4.44-10	1.07-13	1.31-13	1.95-21	1.44-11	6.48-12	
6.92-11	1.50-10	5.49-10	2.76-10	7.43-12	2.06-13	8.76-21	2.08-11	1.07-11	
1.55-10	8.61-12	4.67-10	8.45-10	4.56-12	1.96-15	7.27-20	2.42-11	1.22-11	
1.15-10	2.41-10	2.33-10	6.11-11	2.09-12	1.55-16	3.94-25	1.97-11	8.72-12	
1.48-11	4.84-11	9.44-11	1.98-11	1.47-12	2.42-21	2.01-26	2.17-11	1.34-11	
2.50-10	6.47-10	1.21-09	8.65-10	3.43-11	9.09-14	2.26-20			
7.92-11	2.32-10	5.62-10	3.03-10	2.39-11	5.78-14	1.96-20	7.66-11	1.79-11	
							2.05-09	1.74-10	

AIR SCATTERING 2.26 02 ENERGY 2.00 ANGLE 1.35 02 DIST. 1.98 03
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.	3.69-08	1.31-08	0.
4.00 01	0.	0.	0.	0.	0.	0.	1.22-08	0.
6.00 01	0.	0.	0.	0.	0.	0.	4.85-11	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.	2.22-09	2.92-09	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.	2.46-08	1.53-08	7.97-10
4.00 01	0.	0.	0.	0.	0.	1.33-09	1.06-08	1.78-10
6.00 01	0.	0.	0.	0.	0.	6.99-11	1.61-09	4.76-10
8.00 01	0.	0.	0.	0.	0.	0.	2.68-10	1.60-10
9.00 01	0.	0.	0.	0.	0.	0.	7.45-11	3.71-10
1.00 02	0.	0.	0.	0.	0.	0.	2.50-11	9.74-11
1.20 02	0.	0.	0.	0.	0.	0.	7.35-13	2.21-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	4.75-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	7.88-11
1.80 02	0.	0.	0.	0.	0.	0.	1.17-12	6.24-13
	0.	0.	0.	0.	0.	1.73-09	3.30-09	4.38-10
	0.	0.	0.	0.	0.	2.26-10	3.16-10	8.41-11

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.44-09	1.98-09
4.00 01	0.	0.	0.	0.	0.	0.	4.56-10	3.23-10
6.00 01	0.	0.	0.	0.	0.	0.	3.84-10	4.55-10
8.00 01	0.	0.	0.	0.	0.	0.	2.01-11	1.55-09
9.00 01	0.	0.	0.	0.	0.	0.	3.57-12	2.94-10
1.00 02	0.	0.	0.	0.	0.	0.	3.00-12	2.88-10
1.20 02	0.	0.	0.	0.	0.	0.	8.08-13	1.84-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.24-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.57-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.45-10
	0.	0.	0.	0.	0.	0.	3.37-10	1.06-09
	0.	0.	0.	0.	0.	0.	1.03-10	3.35-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	4.38-10	1.04-09
4.00 01	0.	0.	0.	0.	0.	0.	4.49-11	6.51-10
6.00 01	0.	0.	0.	0.	0.	1.43-11	6.60-12	7.89-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	4.26-11
9.00 01	0.	0.	0.	0.	0.	0.	5.51-12	2.78-11
1.00 02	0.	0.	0.	0.	0.	0.	1.71-11	1.68-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.43-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	6.18-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	5.76-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.59-11
	0.	0.	0.	0.	0.	3.80-12	3.99-11	4.99-10
	0.	0.	0.	0.	0.	3.79-12	1.80-11	1.30-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	7.22-10	1.20-09
4.00 01	0.	0.	0.	0.	0.	0.	3.25-12	9.25-10
6.00 01	0.	0.	0.	0.	0.	0.	4.30-12	3.89-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.58-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.37-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.30-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.24-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.07-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	4.52-11	4.63-10
	0.	0.	0.	0.	0.	0.	2.88-11	1.11-10

301771429005 302252362021

AIR SCATTERING 2.26 02 ENERGY 2.00 ANGLE 1.35 02 DIST. 1.98 03

3.30 01	1.16 03	0.	0.	3.57 04	5.00 01	1.20 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.	4.97-09
0.	0.	0.	0.	0.	0.	0.	8.55-10
0.	0.	0.	0.	0.	0.	0.	3.40-12
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	4.49-10

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		
5.44-10	3.50-10	4.89-10	1.89-10	8.75-13	5.57-16	1.16-25	3.86-09	4.11-10
7.33-10	4.77-10	3.89-10	1.85-10	6.05-12	1.15-15	2.71-23	9.46-10	9.30-11
3.81-10	3.56-10	3.23-10	1.35-10	1.32-11	7.50-15	4.22-22	1.74-10	5.81-11
2.40-10	1.41-10	1.87-10	5.49-11	4.31-11	1.11-15	3.49-21	4.35-11	1.10-11
4.86-10	1.82-10	4.99-10	1.03-10	6.11-13	1.38-15	1.14-26	5.59-11	1.72-11
9.14-10	2.47-10	7.61-11	1.82-10	5.41-12	5.23-15	1.95-24	4.89-11	2.39-11
1.37-10	1.26-10	4.25-10	3.73-11	1.29-12	9.60-15	6.62-24	2.79-11	6.80-12
1.18-10	4.27-11	1.24-10	1.02-10	2.10-12	5.53-15	2.05-22	1.12-11	3.65-12
2.39-10	2.16-11	2.79-11	2.47-11	7.64-12	9.89-17	3.82-27	1.39-11	7.33-12
7.36-11	2.00-11	1.44-11	5.12-11	2.56-10	5.12-21	1.04-26	6.60-12	3.26-12
7.01-10	3.77-10	5.21-10	1.89-10	3.75-11	8.36-15	1.31-21		
1.43-10	7.77-11	1.00-10	5.54-11	1.80-11	3.81-15	8.00-22	4.90-10	3.61-11

PHI 45 TO 90 DEGREES

1.61-09	9.79-10	6.74-10	5.35-11	9.32-12	2.03-16	2.46-23	3.66-10	1.54-10
7.00-10	5.57-10	1.55-10	6.50-11	1.05-11	1.02-15	2.58-24	9.05-11	2.34-11
4.76-10	4.50-10	4.86-10	7.29-11	1.14-11	1.64-12	3.15-20	8.82-11	1.64-11
4.45-10	1.03-10	2.38-10	4.20-10	4.14-12	9.88-14	4.67-24	1.06-10	4.63-11
1.30-10	1.37-10	1.22-10	1.20-10	1.75-11	3.03-16	2.09-22	2.67-11	9.64-12
2.27-10	1.83-10	1.29-10	1.68-11	5.34-12	5.25-15	3.13-22	3.00-11	8.80-12
5.54-11	1.66-11	9.46-11	5.20-11	4.90-12	7.07-13	1.50-18	1.41-11	8.42-12
2.07-10	9.26-10	1.92-10	6.69-11	1.77-12	1.67-14	1.07-26	5.04-11	2.62-11
5.71-11	6.95-11	9.10-10	3.21-10	7.56-12	6.89-16	2.63-34	2.60-11	1.65-11
2.13-11	1.90-10	1.04-11	2.05-09	4.19-13	1.45-17	2.77-21	3.33-11	2.20-11
6.37-10	6.40-10	5.59-10	4.09-10	1.42-11	7.04-13	4.99-19		
1.35-10	2.58-10	1.73-10	1.58-10	5.25-12	5.19-13	4.90-19	1.30-10	2.14-11

PHI 90 TO 135 DEGREES

1.22-10	3.36-10	2.77-09	3.10-10	1.43-11	6.71-17	1.11-27	1.54-10	7.35-11
5.79-10	2.03-10	1.09-09	1.31-11	1.08-12	9.16-15	6.98-23	8.33-11	2.73-11
3.97-10	2.30-10	8.45-10	3.11-11	2.45-12	4.30-13	4.10-22	7.85-11	1.99-11
1.69-10	7.42-10	2.15-10	2.53-10	1.25-11	4.52-16	5.07-25	3.28-11	1.01-11
3.70-10	6.53-11	8.14-11	3.48-11	6.99-12	7.14-17	1.67-22	1.87-11	1.05-11
7.80-11	3.08-10	5.50-11	6.56-11	3.24-12	1.83-15	1.77-25	1.40-11	5.38-12
5.89-10	1.66-11	1.13-09	6.22-11	5.33-12	2.60-13	1.23-26	5.63-11	3.10-11
5.21-11	1.78-10	5.13-11	1.45-10	9.91-12	1.22-17	2.26-25	9.04-12	3.51-12
5.31-10	1.72-10	1.21-10	7.88-10	1.86-12	1.21-16	4.08-28	3.64-11	1.78-11
8.47-12	9.59-11	9.59-11	1.87-11	4.80-14	4.65-23	2.11-28	5.51-12	2.56-12
6.39-10	5.12-10	1.08-09	3.19-10	1.23-11	2.01-13	1.51-22		
1.94-10	1.41-10	4.08-10	1.40-10	3.53-12	1.40-13	8.97-23	8.84-11	1.54-11

PHI 135 TO 180 DEGREES

2.35-10	2.43-09	4.01-10	1.35-11	1.83-11	1.99-19	8.38-35	1.85-10	7.03-11
6.47-10	2.50-10	4.99-10	7.10-10	1.18-10	9.30-16	9.97-26	9.41-11	2.45-11
1.04-09	5.28-10	4.65-10	3.49-10	6.56-11	1.98-15	3.73-22	8.35-11	3.32-11
1.78-10	4.79-10	6.91-10	2.85-11	1.64-11	1.84-14	7.32-27	4.01-11	1.46-11
8.52-12	6.10-10	1.51-10	6.96-10	1.81-11	5.12-19	7.34-25	3.20-11	1.39-11
1.88-10	8.68-11	3.32-10	4.59-11	7.05-13	4.65-16	2.27-20	1.71-11	6.36-12
3.61-10	5.96-10	1.22-10	2.57-10	2.94-11	3.38-16	3.97-22	3.88-11	1.41-11
6.12-11	1.88-10	6.05-10	1.56-11	2.26-10	2.30-15	3.22-22	2.12-11	9.40-12
1.30-10	8.04-11	2.00-10	3.13-10	4.48-11	8.66-14	3.61-26	1.62-11	8.11-12
1.25-11	1.13-10	7.02-11	3.02-11	1.22-11	7.43-18	4.94-36	4.99-12	1.85-12
6.54-10	8.73-10	7.84-10	4.99-10	1.26-10	2.25-14	4.26-21		
2.47-10	2.45-10	2.12-10	1.81-10	7.33-11	1.65-14	3.89-21	9.28-11	1.53-11
							1.26-09	9.18-11

AIR SCATTERING 2.27 02 ENERGY 2.00 ANGLE 1.80 02 DIST. 1.98 03
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.	8.83-08	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.	5.32-09	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.	4.89-13	6.39-08	1.08-10
4.00 01	0.	0.	0.	0.	0.	5.19-16	1.85-09	2.03-10
6.00 01	0.	0.	0.	0.	0.	0.	2.53-10	5.36-10
8.00 01	0.	0.	0.	0.	0.	0.	9.45-11	8.49-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.07-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.03-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	7.89-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.82-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.35-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	4.87-11
	0.	0.	0.	0.	0.	2.96-14	4.27-09	6.12-10
	0.	0.	0.	0.	0.	1.70-14	4.02-10	2.78-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	3.74-12	7.18-09	9.68-10
4.00 01	0.	0.	0.	0.	0.	5.78-15	1.65-09	1.74-10
6.00 01	0.	0.	0.	0.	0.	0.	1.67-10	2.51-10
8.00 01	0.	0.	0.	0.	0.	0.	2.58-11	1.93-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.18-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.30-10
1.20 02	0.	0.	0.	0.	0.	0.	1.80-13	1.30-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.71-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.55-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.18-10
	0.	0.	0.	0.	0.	2.26-13	7.73-10	3.78-10
	0.	0.	0.	0.	0.	1.59-13	1.79-10	7.56-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	3.36-11	3.60-09	1.77-09
4.00 01	0.	0.	0.	0.	0.	0.	4.10-09	9.68-11
6.00 01	0.	0.	0.	0.	0.	0.	9.49-11	8.40-10
8.00 01	0.	0.	0.	0.	1.05-13	0.	4.16-12	3.17-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.60-10
1.00 02	0.	0.	0.	0.	0.	0.	2.56-14	3.03-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.93-10
1.40 02	0.	0.	0.	0.	0.	0.	9.82-12	2.20-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	3.05-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	8.22-12
	0.	0.	0.	0.	3.43-14	2.03-12	9.58-10	6.39-10
	0.	0.	0.	0.	3.42-14	1.21-12	6.20-10	2.03-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.71-11	4.75-09	4.33-10
4.00 01	0.	0.	0.	0.	0.	0.	3.65-10	1.86-10
6.00 01	0.	0.	0.	0.	0.	0.	1.27-10	3.26-09
8.00 01	0.	0.	0.	0.	0.	1.43-13	2.99-12	4.52-10
9.00 01	0.	0.	0.	0.	0.	0.	1.56-11	3.58-10
1.00 02	0.	0.	0.	0.	0.	0.	3.58-10	7.64-11
1.20 02	0.	0.	0.	0.	0.	0.	4.10-13	1.58-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	4.53-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.63-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	9.60-13
	0.	0.	0.	0.	0.	1.08-12	4.49-10	1.32-09
	0.	0.	0.	0.	0.	9.22-13	1.10-10	6.00-10

302252362021 042532231515

AIR SCATTERING 2.27 02 ENERGY 2.00 ANGLE 1.80 02 DIST. 1.98 03
2.10 01 1.17 03 0. 0. 3.53 04 5.00 01 1.20 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.	6.18-09
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.
0.	0.	0.	0.	0.	0.	0.	3.73-10

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		
7.98-10	5.54-10	6.55-10	3.04-10	4.26-12	9.13-16	7.07-21	4.53-09	4.05-10
5.35-10	1.57-10	2.70-10	1.58-10	7.52-12	6.23-17	4.41-23	1.70-10	6.91-11
2.44-10	2.09-10	6.78-10	2.78-10	4.72-12	3.72-14	4.00-25	7.47-11	1.71-11
1.07-10	1.41-10	2.18-10	3.59-10	5.17-11	2.16-15	1.69-27	2.66-11	7.30-12
1.42-10	4.21-10	7.08-11	3.00-11	7.87-12	9.36-18	8.14-26	4.23-11	2.54-11
3.41-10	5.08-10	3.33-10	4.03-11	6.28-12	1.38-16	9.45-27	8.31-11	5.21-11
2.64-11	9.24-11	3.77-11	8.39-11	1.04-11	1.22-15	1.69-20	8.81-12	3.57-12
3.41-10	8.44-11	7.66-11	6.94-11	5.15-12	2.91-16	5.05-21	3.57-11	1.88-11
4.21-10	5.05-10	4.54-11	1.47-11	5.89-13	4.10-16	1.54-24	2.90-11	1.61-11
5.17-10	3.68-11	2.08-10	5.97-12	2.84-12	1.27-16	7.34-28	2.62-11	1.44-11
5.28-10	4.66-10	4.61-10	2.98-10	2.72-11	1.12-14	7.30-21		
1.20-10	1.02-10	1.25-10	1.12-10	1.63-11	9.89-15	6.84-21	3.72-10	3.38-11

PHI 45 TO 90 DEGREES

7.63-10	1.27-09	4.93-10	1.15-09	1.20-11	1.97-16	2.16-21	6.31-10	1.43-10
4.60-10	1.77-10	5.77-10	3.82-10	7.90-12	5.42-17	6.05-22	1.61-10	5.42-11
2.25-10	3.57-10	3.32-10	1.14-10	2.76-11	1.11-14	7.18-20	4.90-11	1.06-11
1.07-10	2.35-10	1.19-10	4.56-11	1.10-11	4.10-15	4.78-27	2.39-11	7.11-12
1.14-10	2.22-10	8.63-11	4.09-11	3.57-11	4.98-15	1.58-23	1.25-11	5.78-12
8.72-11	2.89-10	8.17-10	7.77-11	1.09-11	1.13-13	4.90-29	3.38-11	1.53-11
8.44-11	4.94-10	4.77-11	9.00-11	6.30-12	1.26-16	7.36-24	2.33-11	1.06-11
2.37-10	1.80-10	9.98-11	3.08-11	1.28-10	4.17-14	1.29-21	1.64-11	6.87-12
7.08-11	8.45-11	9.78-11	9.97-11	5.36-12	3.05-17	2.36-23	3.03-11	1.49-11
0.	1.14-11	1.93-10	3.49-11	5.52-14	3.68-16	6.14-28	1.54-11	1.10-11
3.58-10	5.92-10	4.85-10	2.59-10	5.82-11	3.60-14	1.97-20		
7.47-11	1.68-10	1.38-10	8.14-11	2.57-11	2.32-14	1.91-20	1.13-10	1.63-11

PHI 90 TO 135 DEGREES

3.23-10	6.07-10	4.84-10	1.57-10	9.58-12	2.81-19	3.78-30	3.82-10	9.31-11
1.23-10	4.37-10	1.50-10	1.24-10	9.12-12	2.83-16	8.74-23	3.11-10	2.49-10
3.34-10	1.65-10	1.14-10	3.87-10	1.91-11	2.74-15	2.47-22	7.10-11	2.68-11
1.25-10	2.62-10	5.32-10	3.55-10	2.74-11	2.77-16	3.89-27	4.14-11	9.67-12
1.58-10	1.27-10	5.79-11	3.32-10	3.27-12	1.82-17	4.24-27	2.13-11	6.09-12
7.41-11	1.33-10	1.17-09	5.83-11	4.43-12	3.51-16	1.10-22	3.14-11	1.84-11
5.16-11	1.80-10	1.17-09	2.79-11	1.19-11	1.91-17	6.00-23	4.46-11	1.84-11
3.69-11	1.19-10	9.12-11	5.14-11	7.24-11	5.84-18	1.49-23	1.89-11	9.08-12
1.16-10	5.16-11	2.86-10	5.93-11	8.00-11	8.51-17	1.20-24	1.27-11	4.43-12
5.71-12	4.13-10	1.21-10	1.59-10	4.09-11	8.83-16	4.85-25	1.49-11	7.89-12
2.58-10	4.11-10	9.34-10	3.60-10	5.70-11	1.01-15	1.24-22		
5.89-11	8.62-11	3.31-10	1.42-10	2.48-11	7.18-16	6.78-23	1.41-10	4.56-11

PHI 135 TO 180 DEGREES

9.71-10	1.55-10	8.73-10	1.82-11	4.30-12	1.68-16	2.71-25	4.12-10	9.19-11
1.04-10	4.96-10	1.85-10	2.45-10	1.38-11	1.08-14	2.48-21	5.68-11	1.06-11
1.70-10	2.86-10	1.48-10	3.42-11	6.76-12	1.65-14	1.31-21	1.88-10	1.09-10
2.53-10	2.32-10	5.70-10	8.70-11	1.30-11	4.45-16	3.70-21	4.99-11	1.22-11
2.76-10	1.14-10	2.56-10	8.75-11	9.36-12	1.37-15	4.73-25	3.78-11	1.68-11
3.23-10	2.61-10	7.41-11	4.09-10	1.07-11	1.90-15	7.05-26	5.25-11	2.65-11
8.64-11	2.41-11	3.91-11	1.96-10	2.80-11	8.73-17	5.85-26	1.47-11	7.84-12
8.02-11	1.24-10	9.26-11	2.28-11	8.39-11	6.74-16	2.50-27	3.03-11	2.12-11
4.43-11	8.06-11	1.85-11	2.00-10	1.03-11	6.43-20	1.82-24	6.23-12	2.38-12
1.55-11	2.59-11	2.82-10	2.54-10	3.37-16	1.34-18	1.56-33	9.40-12	7.75-12
3.59-10	3.69-10	4.25-10	2.87-10	4.55-11	7.21-15	1.99-21		
6.95-11	8.55-11	1.12-10	8.19-11	2.36-11	6.05-15	1.67-21	1.31-10	3.16-11
							1.19-09	1.16-10

AIR SCATTERING 2.28 02 ENERGY 1.00 ANGLE 1.00 DIST. 1.98 03
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	1.51-05	0.	0.	0.	0.	0.	0.	0.
4.00	01	2.49-06	8.79-07	0.	0.	0.	0.	0.	0.
6.00	01	0.	1.19-06	0.	0.	0.	0.	0.	0.
8.00	01	0.	0.	1.12-06	0.	0.	0.	0.	0.
9.00	01	0.	0.	0.	1.36-06	0.	0.	0.	0.
1.00	02	0.	0.	0.	1.18-06	0.	0.	0.	0.
1.20	02	0.	0.	0.	0.	5.75-07	0.	0.	0.
1.40	02	0.	0.	0.	0.	1.35-06	0.	0.	0.
1.60	02	0.	0.	0.	0.	1.42-06	5.21-07	0.	0.
1.80	02	0.	0.	0.	0.	0.	7.72-06	0.	0.
		1.34-06	4.68-07	3.87-07	4.41-07	7.94-07	5.56-07	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	9.61-06	3.24-08	1.22-08	0.	0.	0.	1.87-09	5.00-09
4.00	01	1.59-06	5.59-07	0.	0.	0.	0.	2.82-08	1.64-09
6.00	01	0.	7.56-07	0.	0.	2.09-08	2.44-09	2.13-09	4.29-10
8.00	01	0.	0.	7.15-07	0.	0.	7.85-10	1.45-09	3.98-10
9.00	01	0.	0.	0.	8.67-07	0.	3.03-11	2.79-09	4.82-10
1.00	02	0.	0.	0.	7.49-07	0.	1.51-10	2.58-09	7.28-10
1.20	02	0.	0.	0.	0.	3.66-07	1.61-10	5.50-09	8.20-10
1.40	02	0.	0.	0.	0.	8.58-07	3.34-09	1.08-09	1.25-09
1.60	02	0.	0.	0.	0.	9.07-07	3.41-07	1.88-09	3.26-10
1.80	02	0.	0.	0.	0.	3.27-11	4.99-06	8.03-10	1.49-09
		8.55-07	3.00-07	2.34-07	2.81-07	5.11-07	3.62-07	9.44-09	1.79-09
		1.55-07	1.72-07	1.85-07	1.99-07	1.94-07	6.51-08	4.77-09	3.67-10

PHI 45 TO 90 DEGREES

2.00	01	0.	0.	0.	1.42-09	0.	0.	3.86-09	1.26-08
4.00	01	0.	0.	0.	0.	6.97-10	0.	4.48-09	1.14-08
6.00	01	0.	0.	0.	0.	0.	1.85-10	2.43-09	1.51-09
8.00	01	0.	0.	0.	0.	0.	2.70-10	4.04-09	1.49-09
9.00	01	0.	0.	0.	0.	0.	4.75-09	9.40-10	2.44-10
1.00	02	0.	0.	0.	0.	0.	3.94-10	7.97-10	4.81-10
1.20	02	0.	0.	0.	0.	0.	2.49-09	9.25-10	1.20-09
1.40	02	0.	0.	0.	0.	0.	2.66-08	1.28-09	4.73-10
1.60	02	0.	0.	0.	0.	1.05-11	9.61-09	6.70-10	4.63-10
1.80	02	0.	0.	0.	8.89-11	2.71-11	4.56-08	2.09-09	6.79-10
		0.	0.	0.	9.07-11	1.24-10	1.33-08	4.16-09	4.39-09
		0.	0.	0.	8.55-11	1.21-10	7.30-09	1.15-09	2.03-09

PHI 90 TO 135 DEGREES

2.00	01	0.	0.	0.	0.	0.	0.	0.	5.26-10
4.00	01	0.	0.	0.	0.	7.67-10	0.	2.58-09	7.36-10
6.00	01	0.	0.	0.	0.	0.	1.60-08	3.15-09	1.39-09
8.00	01	0.	0.	0.	1.71-10	0.	1.80-10	7.73-09	2.95-09
9.00	01	0.	0.	0.	0.	0.	9.51-11	6.25-10	2.35-08
1.00	02	0.	0.	0.	0.	0.	1.76-09	7.53-10	7.10-10
1.20	02	0.	0.	0.	0.	2.07-09	1.03-09	1.86-09	8.74-10
1.40	02	0.	0.	0.	0.	1.04-11	1.74-09	1.08-09	1.07-09
1.60	02	0.	0.	0.	0.	2.18-10	2.67-09	7.17-10	8.21-10
1.80	02	0.	0.	0.	1.12-12	1.77-09	5.39-09	7.58-10	9.98-10
		0.	0.	0.	5.60-11	9.55-10	6.24-09	5.11-09	6.46-09
		0.	0.	0.	5.59-11	6.95-10	3.91-09	2.34-09	4.03-09

PHI 135 TO 180 DEGREES

2.00	01	0.	0.	0.	0.	6.42-10	0.	0.	1.41-09
4.00	01	0.	0.	0.	2.46-09	0.	1.73-10	3.23-09	1.20-09
6.00	01	0.	0.	0.	0.	0.	3.37-10	5.56-10	1.33-09
8.00	01	0.	0.	0.	0.	0.	1.19-13	9.15-09	2.37-09
9.00	01	0.	0.	0.	0.	0.	3.38-09	1.05-09	7.80-10
1.00	02	0.	0.	0.	0.	0.	3.50-09	3.28-09	2.01-09
1.20	02	0.	0.	0.	1.17-10	4.83-11	2.39-10	1.56-09	7.09-10
1.40	02	0.	0.	0.	0.	7.75-12	2.70-10	9.84-10	1.14-09
1.60	02	0.	0.	8.66-12	9.53-12	2.18-11	1.83-09	4.76-10	1.34-09
1.80	02	0.	0.	0.	2.58-13	2.86-10	6.11-08	5.53-10	1.28-08
		0.	0.	1.50-12	4.68-10	7.76-11	5.47-09	5.33-09	3.44-09
		0.	0.	1.50-12	4.29-10	4.37-11	2.91-09	2.63-09	1.06-09

064637074335 201446760461

AIR SCATTERING 2.28 02 ENERGY 1.00 ANGLE 1.00 DIST. 1.98 03
6.60 01 1.72 03 0. 0. 5.64 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.	3.93-06
0.	0.	0.	0.	0.	0.	0.	8.15-07
0.	0.	0.	0.	0.	0.	0.	2.26-07
0.	0.	0.	0.	0.	0.	0.	1.69-07
0.	0.	0.	0.	0.	0.	0.	1.36-07
0.	0.	0.	0.	0.	0.	0.	1.18-07
0.	0.	0.	0.	0.	0.	0.	5.18-08
0.	0.	0.	0.	0.	0.	0.	1.21-07
0.	0.	0.	0.	0.	0.	0.	1.54-07
0.	0.	0.	0.	0.	0.	0.	3.86-07
0.	0.	0.	0.	0.	0.	0.	6.37-07

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		
4.64-10	2.64-10	2.50-10	1.81-11	5.43-13	8.96-17	4.12-35	2.51-06	4.05-07
4.82-10	1.91-09	3.19-10	1.15-10	1.00-11	6.64-18	4.69-24	5.20-07	2.14-07
2.51-10	2.58-10	1.67-10	5.43-11	2.80-13	1.22-15	8.71-22	1.46-07	1.02-07
4.76-10	1.51-09	1.70-10	1.12-10	1.20-12	6.91-18	7.51-26	1.07-07	7.59-08
2.51-10	1.19-10	1.11-09	1.47-09	2.37-12	5.76-16	2.41-25	8.68-08	8.66-08
4.12-10	2.53-10	4.13-10	2.15-10	3.96-12	2.82-18	4.12-27	7.51-08	7.49-08
9.27-10	2.96-10	2.02-10	7.31-11	2.10-12	1.93-14	3.32-27	3.33-08	3.30-08
8.15-10	2.56-10	3.66-10	3.53-11	8.48-14	1.95-18	2.30-26	7.75-08	4.54-08
8.10-10	3.84-10	3.58-10	3.27-11	1.48-12	5.12-17	1.43-27	9.88-08	3.97-08
1.52-09	3.35-10	8.54-10	9.50-12	2.56-13	6.69-18	1.80-27	2.50-07	4.22-08
1.20-09	1.23-09	7.12-10	4.04-10	4.32-12	6.76-15	2.33-22		
1.99-10	4.35-10	1.99-10	2.50-10	1.97-12	6.31-15	2.32-22	4.07-07	

PHI 45 TO 90 DEGREES

1.17-10	7.33-10	9.07-11	7.47-12	1.79-14	1.36-20	2.65-27	7.41-10	4.09-10
1.41-09	8.14-10	1.50-10	6.12-11	1.99-12	3.44-17	3.89-29	6.79-10	3.91-10
2.98-09	3.04-10	3.00-10	1.13-10	4.01-12	9.90-16	4.82-24	2.41-10	8.96-11
2.29-09	6.64-10	2.92-10	5.47-11	3.12-12	3.90-16	3.78-22	2.97-10	1.27-10
4.10-10	6.75-10	8.71-10	6.69-11	5.36-13	5.55-16	3.05-27	3.15-10	2.17-10
2.55-10	1.04-09	3.75-11	3.36-10	2.67-13	9.87-19	1.07-25	9.34-11	2.79-11
9.73-10	6.38-10	9.65-10	7.81-11	5.68-12	3.71-15	5.40-23	2.48-10	1.24-10
1.19-08	1.44-08	4.32-10	2.81-10	5.84-13	3.86-14	4.23-25	1.92-09	1.40-09
1.50-09	5.18-10	5.12-10	9.27-11	5.92-13	2.93-15	6.40-27	5.76-10	1.69-10
1.58-09	3.10-10	3.26-09	5.78-11	5.18-13	5.05-15	1.33-24	2.48-09	1.25-09
5.75-09	4.94-09	1.08-09	2.49-10	4.71-12	1.28-14	1.42-22		
3.31-09	3.37-09	2.67-10	7.05-11	1.77-12	1.12-14	1.26-22	1.24-09	3.97-10

PHI 90 TO 135 DEGREES

6.83-11	5.00-10	6.10-11	8.41-12	4.03-14	2.76-17	7.97-29	2.79-11	1.12-11
5.22-10	1.10-09	3.77-11	5.16-11	4.18-14	5.39-16	1.90-27	2.28-10	8.00-11
2.09-10	5.72-10	3.21-10	1.33-10	1.16-12	3.18-15	3.91-28	9.94-10	7.32-10
3.21-10	1.23-10	4.11-10	6.73-11	1.40-12	1.24-14	4.34-25	4.51-10	2.89-10
6.61-10	3.43-10	2.99-10	1.09-10	1.54-12	5.33-19	1.33-23	8.53-10	7.74-10
5.89-10	3.31-10	1.67-10	5.04-10	8.87-13	8.07-18	9.82-26	1.69-10	8.58-11
1.09-09	1.50-09	1.79-10	1.89-10	4.71-12	3.05-15	4.35-21	3.95-10	1.93-10
1.53-09	4.78-10	5.13-10	3.85-11	7.76-12	2.75-16	2.03-25	2.19-10	5.76-11
7.95-10	3.47-09	2.33-10	6.65-11	1.16-12	8.77-16	6.09-22	2.85-10	7.40-11
9.37-10	7.32-10	6.63-10	2.71-11	4.43-13	1.21-18	1.15-22	5.36-10	1.74-10
1.43-09	1.79-09	5.86-10	2.58-10	5.03-12	6.21-15	1.54-21		
2.28-10	5.05-10	1.37-10	1.06-10	2.12-12	3.35-15	1.42-21	9.00-10	2.67-10

PHI 135 TO 180 DEGREES

1.55-10	4.09-10	3.94-11	2.11-11	5.63-13	2.21-17	1.11-34	1.16-10	6.18-11
3.87-10	3.21-10	2.91-10	1.61-10	5.24-13	2.31-18	5.37-22	4.44-10	2.71-10
1.47-10	2.52-10	1.21-09	1.01-10	3.14-13	1.74-15	8.69-26	1.07-10	3.20-11
2.22-09	1.32-09	1.16-09	1.28-11	1.13-12	2.50-15	8.58-25	5.36-10	3.21-10
2.37-10	3.81-10	7.69-10	1.51-11	2.96-12	3.15-12	1.27-25	2.59-10	1.56-10
1.02-09	1.38-09	5.81-10	1.33-10	1.19-11	1.56-14	1.29-20	4.29-10	2.03-10
5.83-10	9.53-10	7.70-10	1.09-10	3.10-11	2.19-15	2.37-22	1.54-10	3.26-11
1.03-09	1.04-09	3.18-10	8.61-11	2.62-12	2.17-16	5.59-23	1.38-10	3.07-11
3.50-10	3.26-10	4.52-10	1.17-11	3.39-13	7.40-16	1.24-21	1.79-10	3.40-11
3.09-10	2.21-10	8.40-10	8.89-11	1.92-13	4.79-17	2.36-23	3.56-09	2.35-09
1.60-09	1.54-09	1.45-09	1.52-10	1.40-11	5.51-13	2.65-21		
6.61-10	3.40-10	5.36-10	4.51-11	7.41-12	5.46-13	2.26-21	7.40-10	1.91-10
							6.44-07	9.90-08

AIR SCATTERING 2.29 02 ENERGY 1.00 ANGLE 1.50 01 DIST. 1.98 03
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	7.24-07	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	1.76-07	7.31-09	0.	0.	0.	0.	0.
6.00 01	0.	0.	8.57-08	0.	0.	0.	0.	0.
8.00 01	0.	0.	3.39-09	6.52-08	0.	0.	0.	0.
9.00 01	0.	0.	0.	3.07-08	2.41-08	0.	0.	0.
1.00 02	0.	0.	0.	0.	5.74-08	0.	0.	0.
1.20 02	0.	0.	0.	0.	5.90-08	0.	0.	0.
1.40 02	0.	0.	0.	0.	6.42-08	0.	0.	0.
1.60 02	0.	0.	0.	0.	9.91-09	1.10-07	0.	0.
1.80 02	0.	0.	0.	0.	0.	1.36-08	0.	0.
	4.37-08	3.05-08	2.52-08	2.66-08	5.22-08	2.00-08	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	4.61-07	0.	0.	0.	0.	0.	4.63-09	3.21-09
4.00 01	0.	1.12-07	4.65-09	0.	4.35-09	2.51-08	3.66-09	3.01-09
6.00 01	0.	0.	5.46-08	0.	0.	5.13-10	2.64-09	1.16-09
8.00 01	0.	0.	2.16-09	4.15-08	3.07-10	3.94-10	2.00-09	3.36-10
9.00 01	0.	0.	0.	1.96-08	2.94-08	8.10-12	5.63-09	1.09-09
1.00 02	0.	0.	0.	0.	3.66-08	4.03-09	3.40-10	2.96-10
1.20 02	0.	0.	0.	0.	3.75-08	1.43-08	4.05-10	1.86-09
1.40 02	0.	0.	0.	0.	4.09-08	1.57-08	7.23-10	2.59-09
1.60 02	0.	0.	0.	0.	8.75-09	8.29-08	2.51-09	6.12-10
1.80 02	0.	0.	0.	3.09-14	4.46-11	1.62-08	2.14-10	1.21-09
	2.78-08	1.94-08	1.60-08	1.69-08	3.66-08	2.95-08	4.08-09	2.85-09
	2.71-09	3.45-09	3.47-09	3.97-09	4.78-09	5.70-09	1.15-09	7.76-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.14-08	9.72-10
4.00 01	0.	0.	4.45-09	0.	0.	0.	1.94-09	1.11-08
6.00 01	0.	0.	0.	0.	0.	4.02-10	4.21-09	4.96-10
8.00 01	0.	0.	0.	0.	0.	0.	1.69-09	1.43-10
9.00 01	0.	0.	0.	0.	0.	4.17-11	2.88-09	9.58-10
1.00 02	0.	0.	0.	0.	0.	7.20-10	3.96-10	2.65-10
1.20 02	0.	0.	0.	0.	1.28-11	2.06-10	2.43-09	2.26-09
1.40 02	0.	0.	0.	0.	0.	7.05-09	2.47-09	5.20-10
1.60 02	0.	0.	0.	2.83-12	3.46-12	6.15-09	4.62-10	6.03-10
1.80 02	0.	0.	0.	4.35-11	2.85-10	1.21-09	6.16-10	4.44-10
	0.	0.	7.73-10	3.11-12	2.20-11	3.32-09	4.83-09	3.38-09
	0.	0.	7.73-10	2.67-12	1.55-11	1.67-09	1.23-09	1.70-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.26-09	4.00-09
4.00 01	0.	0.	0.	0.	0.	0.	7.71-10	1.72-09
6.00 01	0.	0.	0.	0.	0.	1.29-09	2.77-10	1.11-09
8.00 01	0.	0.	0.	0.	0.	0.	7.19-10	1.19-09
9.00 01	0.	0.	0.	0.	0.	6.39-10	7.04-10	1.87-10
1.00 02	0.	0.	0.	0.	0.	9.40-11	9.72-11	3.60-10
1.20 02	0.	0.	0.	0.	3.39-14	5.57-11	6.93-10	3.69-10
1.40 02	0.	0.	0.	0.	0.	5.93-10	8.42-10	1.25-09
1.60 02	0.	0.	0.	0.	2.11-11	2.13-09	5.65-10	1.00-09
1.80 02	0.	0.	0.	4.75-12	2.11-15	1.13-09	2.06-09	6.41-10
	0.	0.	0.	2.86-13	3.68-12	1.08-09	1.39-09	1.98-09
	0.	0.	0.	2.86-13	3.44-12	4.54-10	3.10-10	4.20-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.78-09
4.00 01	0.	0.	0.	0.	0.	5.06-10	8.19-10	1.69-09
6.00 01	0.	0.	0.	0.	0.	0.	3.76-10	2.02-09
8.00 01	0.	0.	0.	0.	0.	0.	1.14-09	2.31-10
9.00 01	0.	0.	0.	0.	0.	4.42-11	6.51-10	6.85-10
1.00 02	0.	0.	0.	0.	0.	4.01-11	4.98-10	7.75-11
1.20 02	0.	0.	0.	0.	0.	1.44-11	2.14-10	1.64-09
1.40 02	0.	0.	0.	0.	1.98-10	1.38-10	3.48-09	7.99-10
1.60 02	0.	0.	0.	0.	1.48-10	9.26-10	1.39-09	5.65-10
1.80 02	0.	0.	0.	0.	1.24-12	5.36-09	4.02-11	1.40-09
	0.	0.	0.	0.	7.84-11	6.28-10	2.05-09	2.13-09
	0.	0.	0.	0.	5.74-11	2.06-10	8.70-10	5.86-10

245343777765 347724707331

AIR SCATTERING 2.29 02 ENERGY 1.00 ANGLE 1.50 01 DIST. 1.98 03
3.60 01 1.16 03 0. 0. 3.74 04 5.00 01 1.20 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.	1.88-07	
0.	0.	0.	0.	0.	0.	0.	3.45-08	
0.	0.	0.	0.	0.	0.	0.	1.29-08	
0.	0.	0.	0.	0.	0.	0.	7.03-09	
0.	0.	0.	0.	0.	0.	0.	5.24-09	
0.	0.	0.	0.	0.	0.	0.	5.17-09	
0.	0.	0.	0.	0.	0.	0.	5.31-09	
0.	0.	0.	0.	0.	0.	0.	5.78-09	
0.	0.	0.	0.	0.	0.	0.	6.40-09	
0.	0.	0.	0.	0.	0.	0.	6.78-10	
0.	0.	0.	0.	0.	0.	0.		
							2.93-08	

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			
3.14-10	1.45-10	1.48-10	4.21-12	2.16-13	4.06-15	0.	1.20-07	1.17-08	
2.62-10	8.85-10	1.73-10	1.31-10	2.88-12	5.38-17	1.30-26	2.39-08	4.14-09	
4.67-10	5.77-10	6.56-10	1.17-11	1.37-12	1.98-16	1.03-29	8.38-09	1.87-09	
7.16-10	1.96-10	1.16-10	6.38-11	4.22-13	1.34-14	3.17-24	4.63-09	1.15-09	
4.30-10	1.88-10	1.52-09	3.64-11	2.52-12	2.42-17	5.47-35	4.89-09	1.79-09	
2.53-10	1.10-09	2.90-10	9.03-09	3.17-13	3.21-16	3.23-24	3.62-09	1.18-09	
9.77-10	5.10-10	6.05-10	4.94-10	4.65-13	7.64-17	8.45-23	4.22-09	9.30-10	
2.10-09	5.61-10	1.60-09	2.04-10	1.48-12	1.11-16	9.79-24	4.66-09	6.94-10	
3.02-09	1.99-10	7.18-10	4.42-11	2.14-11	9.43-17	7.48-23	4.96-09	4.17-10	
3.84-10	2.47-10	2.74-09	3.15-10	5.60-14	1.03-18	1.82-28	9.15-10	1.12-10	
1.97-09	9.69-10	1.48-09	1.86-09	5.78-12	4.48-23				
6.04-10	3.03-10	4.37-10	1.49-09	3.72-12	3.51-15	2.99-23	2.01-08	1.24-09	

PHI 45 TO 90 DEGREES

3.17-10	2.14-10	3.01-10	3.85-09	1.48-12	9.34-20	4.86-31	5.39-10	3.51-10	
4.80-10	5.21-10	3.10-10	4.94-10	3.44-13	4.94-18	1.17-27	1.15-09	7.41-10	
1.44-09	7.69-10	2.44-10	3.02-11	2.59-11	4.96-17	1.36-24	2.56-10	1.10-10	
5.05-10	2.18-10	4.20-10	2.64-11	5.51-11	3.55-15	8.21-28	9.37-11	2.85-11	
5.58-10	5.39-10	6.88-10	5.17-11	5.31-13	6.49-16	6.04-26	1.81-10	8.93-11	
5.57-10	1.92-10	2.61-10	7.30-11	1.84-14	1.41-15	5.00-23	8.14-11	3.64-11	
3.42-10	5.42-10	3.75-10	1.47-11	5.33-13	3.05-16	1.00-29	2.07-10	8.70-11	
7.01-10	3.42-10	1.12-10	4.24-11	1.75-12	4.58-16	8.67-25	4.93-10	2.98-10	
9.15-10	1.34-10	8.35-11	1.44-09	3.55-13	1.54-15	4.16-27	3.86-10	1.76-10	
4.77-10	2.15-10	1.36-09	1.10-10	4.65-14	2.12-15	8.05-30	1.63-10	4.41-11	
1.33-09	8.10-10	6.88-10	6.29-10	2.58-11	2.15-15	9.28-24			
3.87-10	1.87-10	1.94-10	3.41-10	2.33-11	1.14-15	8.69-24	6.52-10	1.69-10	

PHI 90 TO 135 DEGREES

3.95-10	4.13-11	1.06-10	7.27-11	7.81-15	2.06-16	4.23-25	2.39-10	1.12-10	
8.62-10	1.89-09	7.08-10	2.71-11	1.10-14	2.23-17	2.65-24	1.48-10	5.03-11	
5.72-10	1.79-10	4.94-10	1.10-11	4.87-11	2.84-14	5.61-24	1.36-10	7.26-11	
6.54-10	3.15-10	5.65-11	1.05-11	3.73-12	2.39-15	6.38-28	9.12-11	2.51-11	
3.26-10	2.74-10	6.99-11	1.38-11	1.15-12	5.46-17	2.48-29	7.97-11	3.43-11	
4.01-10	1.22-10	1.28-10	7.65-12	1.57-13	1.77-17	1.54-27	3.43-11	9.56-12	
2.49-10	4.28-10	2.78-10	3.20-10	3.89-13	1.33-16	7.58-27	6.19-11	2.24-11	
9.52-10	1.08-10	1.83-10	1.32-11	1.59-13	1.75-16	4.51-29	1.33-10	3.36-11	
4.64-10	7.47-10	2.40-10	4.72-11	4.66-12	3.51-16	2.93-26	1.91-10	8.42-11	
3.60-09	4.93-10	7.93-11	1.90-10	1.19-13	4.72-18	3.51-25	2.61-10	9.38-11	
1.30-09	8.78-10	5.00-10	1.47-10	1.54-11	8.51-15	2.01-24			
2.85-10	3.03-10	1.67-10	8.23-11	1.30-11	8.31-15	1.95-24	2.31-10	3.67-11	

PHI 135 TO 180 DEGREES

1.51-09	1.68-09	6.70-09	2.50-10	2.94-15	4.56-17	1.50-26	2.40-10	1.05-10	
1.99-09	3.44-10	7.48-11	2.39-10	1.11-13	2.90-16	9.38-32	1.73-10	6.01-11	
2.15-10	5.11-10	2.55-10	2.47-10	2.28-12	1.77-16	9.03-25	1.02-10	4.48-11	
5.69-10	4.66-10	2.24-10	4.05-11	6.29-12	5.33-16	1.71-27	7.76-11	3.20-11	
1.20-10	4.66-10	1.43-10	2.04-11	5.50-13	8.17-17	1.56-24	6.34-11	2.72-11	
6.93-09	5.31-10	2.49-10	7.32-11	1.02-11	3.71-16	5.28-23	2.09-10	1.51-10	
9.40-10	1.43-09	4.58-10	5.98-11	1.60-11	1.70-15	1.44-22	1.16-10	6.11-11	
7.81-10	1.04-09	5.57-10	7.30-11	3.18-12	6.66-16	4.19-26	2.33-10	1.25-10	
2.19-10	2.46-10	1.31-10	6.01-11	5.07-13	1.27-17	4.65-27	1.46-10	6.01-11	
7.92-10	1.06-09	1.09-10	3.18-11	1.18-12	4.53-16	1.11-28	3.55-10	1.43-10	
2.50-09	1.47-09	9.53-10	2.03-10	1.08-11	1.11-15	5.67-23			
1.12-09	5.01-10	4.46-10	1.02-10	4.61-12	5.94-16	4.76-23	2.91-10	5.75-11	
							3.35-08	2.01-09	

AIR SCATTERING 2.30 02 ENERGY 1.00 ANGLE 3.00 01 DIST. 1.98 03
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	6.98-08	2.19-07	0.	0.	0.	0.	0.	0.
4.00 01	0.	1.61-08	5.33-08	0.	0.	0.	0.	0.
6.00 01	0.	0.	1.18-08	2.96-08	0.	0.	0.	0.
8.00 01	0.	0.	0.	1.69-08	1.33-08	0.	0.	0.
9.00 01	0.	0.	0.	0.	2.75-08	0.	0.	0.
1.00 02	0.	0.	0.	0.	2.53-08	0.	0.	0.
1.20 02	0.	0.	0.	0.	2.45-08	0.	0.	0.
1.40 02	0.	0.	0.	0.	8.92-09	2.07-08	0.	0.
1.60 02	0.	0.	0.	0.	0.	5.29-09	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	4.21-09	1.60-08	1.24-08	1.34-08	2.39-08	6.43-09	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	5.50-08	1.40-07	2.38-09	0.	0.	0.	4.41-09	1.24-09
4.00 01	0.	1.02-08	3.39-08	0.	0.	7.60-10	2.92-09	2.32-10
6.00 01	0.	0.	7.52-09	1.88-08	0.	4.43-10	1.05-08	2.59-09
8.00 01	0.	0.	0.	1.39-08	1.01-08	1.55-09	2.81-09	5.22-10
9.00 01	0.	0.	0.	0.	2.10-08	1.91-09	1.39-09	1.22-09
1.00 02	0.	0.	0.	0.	1.61-08	2.04-09	1.81-09	4.37-10
1.20 02	0.	0.	0.	0.	1.70-08	4.58-09	1.24-09	4.46-10
1.40 02	0.	0.	0.	0.	1.01-08	2.04-08	1.68-09	9.66-10
1.60 02	0.	0.	0.	0.	5.16-10	1.29-08	6.58-10	3.99-10
1.80 02	0.	0.	0.	3.66-12	2.90-12	1.74-09	4.18-10	8.74-10
	3.32-09	1.02-08	8.04-09	9.54-09	1.80-08	1.07-08	6.04-09	1.79-09
	8.85-10	1.23-09	1.22-09	1.85-09	1.90-09	1.02-09	2.18-09	5.52-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	2.53-09	0.	0.	3.46-09
4.00 01	0.	0.	0.	0.	0.	3.20-10	9.44-10	7.67-10
6.00 01	0.	0.	0.	0.	0.	0.	1.97-09	8.95-10
8.00 01	0.	0.	0.	0.	0.	0.	9.44-10	9.96-10
9.00 01	0.	0.	0.	0.	0.	1.19-09	1.73-09	1.03-09
1.00 02	0.	0.	0.	0.	0.	2.63-11	7.55-11	7.46-10
1.20 02	0.	0.	0.	0.	0.	6.23-10	1.28-09	2.67-10
1.40 02	0.	0.	0.	0.	8.70-11	5.19-10	7.33-10	1.28-09
1.60 02	0.	0.	0.	0.	2.74-11	1.03-09	6.51-10	9.62-10
1.80 02	0.	0.	0.	0.	5.41-11	5.02-09	1.18-10	1.58-09
	0.	0.	0.	0.	1.84-10	1.09-09	2.04-09	1.90-09
	0.	0.	0.	0.	1.55-10	3.23-10	4.12-10	3.33-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	3.54-09	6.45-10	3.84-10
4.00 01	0.	0.	0.	0.	0.	0.	8.26-09	1.51-09
6.00 01	0.	0.	0.	0.	5.18-10	0.	2.22-09	6.36-10
8.00 01	0.	0.	0.	0.	0.	0.	2.05-09	1.40-09
9.00 01	0.	0.	0.	0.	0.	2.34-11	1.84-09	2.09-11
1.00 02	0.	0.	0.	0.	0.	1.50-10	7.11-10	1.13-10
1.20 02	0.	0.	0.	0.	0.	3.47-10	1.44-09	5.55-10
1.40 02	0.	0.	0.	0.	4.30-12	4.00-10	4.06-10	2.74-10
1.60 02	0.	0.	0.	0.	0.	4.07-10	9.65-10	8.21-10
1.80 02	0.	0.	0.	0.	0.	6.43-10	1.05-09	6.72-10
	0.	0.	0.	0.	1.39-10	5.73-10	3.98-09	1.37-09
	0.	0.	0.	0.	1.38-10	2.43-10	1.45-09	3.26-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.10-09	1.53-09
4.00 01	0.	0.	0.	0.	0.	0.	2.01-10	7.29-10
6.00 01	0.	0.	0.	0.	0.	0.	8.22-10	5.73-10
8.00 01	0.	0.	0.	0.	0.	6.41-13	9.37-10	2.25-09
9.00 01	0.	0.	0.	0.	0.	8.22-09	5.24-10	6.40-08
1.00 02	0.	0.	0.	0.	0.	0.	4.11-10	7.38-10
1.20 02	0.	0.	0.	0.	0.	1.05-09	3.22-09	8.26-10
1.40 02	0.	0.	0.	0.	8.79-13	4.44-13	7.50-10	1.46-10
1.60 02	0.	0.	0.	0.	9.18-14	3.70-11	4.57-10	5.68-10
1.80 02	0.	0.	0.	0.	0.	4.24-10	8.36-11	1.27-10
	0.	0.	0.	0.	2.50-13	1.80-09	2.18-09	1.28-08
	0.	0.	0.	0.	2.34-13	1.46-09	6.94-10	1.10-08

34772470733 321371614651

AIR SCATTERING 2.30 02 ENERGY 1.00 ANGLE 3.00 01 DIST. 1.98 03
3.90 01 1.15 03 0. 0. 3.78 04 5.00 01 1.20 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.	5.98-08
0.	0.	0.	0.	0.	0.	0.	1.11-08
0.	0.	0.	0.	0.	0.	0.	4.73-09
0.	0.	0.	0.	0.	0.	0.	2.89-09
0.	0.	0.	0.	0.	0.	0.	2.48-09
0.	0.	0.	0.	0.	0.	0.	2.27-09
0.	0.	0.	0.	0.	0.	0.	2.21-09
0.	0.	0.	0.	0.	0.	0.	1.84-09
0.	0.	0.	0.	0.	0.	0.	2.64-10
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

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
8.04-11	5.91-11	1.24-12	3.00-12	2.41-14	7.95-19	1.22-31	4.14-08	5.18-09
8.60-10	3.32-10	5.38-10	3.62-12	1.47-11	2.63-17	2.83-27	7.23-09	1.09-09
1.46-09	7.68-10	2.08-09	1.47-10	2.79-10	2.43-17	8.54-30	3.62-09	6.29-10
7.94-10	6.81-10	2.67-10	3.09-10	1.08-12	2.31-16	4.89-26	2.54-09	5.37-10
7.72-10	4.39-10	2.69-10	4.50-11	6.66-11	2.39-16	4.73-25	2.11-09	5.54-10
4.12-10	2.01-10	1.92-10	6.02-11	1.21-12	1.42-15	1.31-27	1.65-09	3.48-10
6.40-10	3.51-10	3.05-10	1.94-10	2.02-12	3.11-16	1.56-25	1.85-09	2.19-10
1.29-09	5.49-10	1.02-09	5.46-11	3.84-14	1.28-16	1.36-25	2.08-09	3.60-10
1.81-09	1.89-09	1.96-10	2.27-10	1.55-12	1.48-15	2.30-24	8.09-10	1.89-10
6.97-10	4.31-10	7.31-11	2.60-11	1.50-12	6.31-18	9.11-25	1.59-10	6.28-11
1.92-09	1.21-09	1.22-09	2.78-10	9.00-11	7.68-16	6.41-25		
3.78-10	3.05-10	4.34-10	9.44-11	6.50-11	3.66-16	3.70-25	7.50-09	4.54-10

PHI 45 TO 90 DEGREES

1.88-10	1.38-07	6.91-10	1.01-11	4.09-12	4.54-18	1.08-28	2.42-09	2.07-09
7.08-11	1.33-10	6.95-10	1.66-10	4.76-13	1.32-16	6.90-24	9.35-11	3.67-11
1.12-09	3.63-10	2.47-10	2.13-10	4.54-12	2.69-16	1.44-26	1.48-10	4.34-11
2.08-09	4.49-09	6.14-10	1.24-10	2.20-12	2.43-18	2.87-27	2.00-10	7.41-11
4.84-10	3.64-10	1.09-09	2.41-11	8.95-12	2.11-16	3.33-26	1.94-10	7.68-11
2.46-10	3.30-10	3.12-10	1.07-10	1.08-11	1.93-14	3.93-26	4.56-11	1.59-11
5.33-10	2.77-10	6.81-10	2.48-10	1.66-11	1.39-15	3.11-22	1.19-10	3.15-11
4.80-10	7.86-10	4.86-10	3.70-10	2.56-13	5.80-15	4.81-28	1.39-10	3.21-11
6.49-10	1.96-10	2.98-10	9.61-11	5.55-13	5.59-17	5.66-25	1.37-10	2.86-11
1.05-09	1.08-09	7.36-11	8.70-12	2.21-14	1.20-17	1.28-27	3.57-10	1.79-10
1.60-09	1.04-08	1.08-09	3.46-10	1.13-11	5.49-15	1.03-22		
4.10-10	8.35-09	3.07-10	1.86-10	5.13-12	3.74-15	1.01-22	4.30-10	1.34-10

PHI 90 TO 135 DEGREES

2.10-10	3.38-09	4.60-10	7.25-11	1.48-13	1.31-20	1.41-27	2.78-10	1.86-10
3.65-10	7.37-10	1.40-09	1.81-10	8.18-13	6.08-18	2.35-31	4.20-10	3.04-10
3.38-10	6.64-10	3.97-10	4.69-11	1.87-13	5.98-17	4.64-24	1.80-10	7.16-11
4.06-09	3.57-10	1.36-09	1.13-10	1.55-14	6.25-18	2.06-25	2.54-10	1.07-10
2.16-10	4.03-10	8.32-11	1.07-10	4.98-12	1.11-17	1.00-27	8.89-11	7.02-11
1.47-08	1.33-10	3.19-10	7.59-11	3.65-12	2.31-16	2.49-28	4.14-10	3.52-10
5.87-10	7.62-10	4.97-10	3.37-10	1.97-12	2.17-14	4.39-19	1.29-10	3.37-11
9.06-10	5.89-10	3.19-10	3.95-11	1.42-12	9.44-15	2.11-25	8.16-11	1.89-11
6.16-10	2.57-10	7.71-10	7.18-11	1.43-13	4.02-15	8.82-28	1.16-10	3.64-11
3.39-10	2.94-10	5.80-11	3.60-11	7.92-12	3.16-16	9.34-28	1.11-10	3.92-11
4.65-09	1.19-09	1.27-09	2.52-10	3.23-12	1.04-14	1.43-19		
3.70-09	2.93-10	3.97-10	8.32-11	1.60-12	7.94-15	1.43-19	3.99-10	1.12-10

PHI 135 TO 180 DEGREES

5.96-11	4.80-10	1.81-09	7.23-11	4.01-13	2.08-17	1.39-31	1.67-10	7.32-11
2.64-09	7.66-10	4.21-09	1.01-10	1.04-12	7.46-18	8.92-29	1.62-10	7.20-11
9.08-10	9.63-10	3.89-10	2.77-10	1.97-13	4.97-17	3.20-23	9.67-11	3.52-11
3.67-10	3.55-10	1.38-10	1.77-11	3.48-12	2.33-15	1.43-28	1.30-10	6.47-11
1.02-10	4.50-10	3.32-10	9.15-11	5.31-13	3.03-15	2.34-30	2.62-09	2.18-09
3.22-10	2.76-10	2.00-10	1.21-10	8.02-12	1.79-16	2.09-34	5.72-11	2.52-11
2.10-09	1.70-09	3.74-10	3.89-10	8.10-14	4.62-17	6.95-23	2.95-10	9.62-11
6.92-10	3.47-10	4.98-10	1.18-09	5.16-12	4.72-15	6.59-23	7.42-11	1.80-11
5.36-10	2.91-10	2.32-10	1.18-11	2.77-12	1.97-15	4.05-28	6.01-11	1.60-11
3.86-11	6.52-11	1.73-10	6.10-12	1.10-12	3.47-17	3.46-27	3.30-11	1.01-11
1.86-09	1.36-09	1.39-09	5.74-10	4.83-12	2.95-15	4.87-23		
6.10-10	3.40-10	7.16-10	2.84-10	2.18-12	1.30-15	2.98-23	7.00-10	3.87-10
							1.42-08	1.01-09

AIR SCATTERING 2.31 02 ENERGY 1.00 ANGLE 6.00 01 DIST. 1.98 03
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.	7.96-08	2.09-08	0.	0.	0.	0.
4.00 01 0.	0.	0.	3.49-08	0.	0.	0.	0.
6.00 01 0.	0.	0.	1.11-09	1.86-08	0.	0.	0.
8.00 01 0.	0.	0.	0.	1.35-08	0.	0.	0.
9.00 01 0.	0.	0.	0.	1.01-08	0.	0.	0.
1.00 02 0.	0.	0.	0.	5.79-09	3.41-09	0.	0.
1.20 02 0.	0.	0.	0.	0.	4.45-09	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.	4.80-09	7.61-09	1.21-08	2.05-09	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.	5.37-08	1.46-08	3.87-09	0.	4.32-09	2.01-10
4.00 01 0.	0.	0.	2.22-08	1.74-09	3.59-10	3.77-09	6.73-10
6.00 01 0.	0.	0.	7.05-10	1.18-08	2.28-09	3.47-09	1.26-09
8.00 01 0.	0.	0.	0.	1.08-08	2.74-09	1.45-09	5.76-10
9.00 01 0.	0.	0.	0.	6.44-09	2.76-09	6.59-10	2.62-09
1.00 02 0.	0.	0.	0.	4.22-09	6.86-09	1.93-09	6.38-10
1.20 02 0.	0.	0.	0.	1.22-09	6.34-09	5.25-10	3.50-09
1.40 02 0.	0.	0.	0.	7.69-12	2.59-09	4.13-10	6.23-10
1.60 02 0.	0.	0.	0.	4.24-12	5.38-10	1.41-10	2.84-10
1.80 02 0.	0.	0.	0.	4.33-10	4.57-10	2.17-10	1.58-10
0.	0.	3.24-09	4.93-09	9.49-09	6.11-09	3.08-09	2.59-09
0.	0.	4.70-10	5.82-10	7.26-10	7.69-10	4.69-10	9.18-10

PHI 45 TO 90 DEGREES

2.00 01 0.	0.	0.	0.	0.	8.82-10	3.85-09	1.15-09
4.00 01 0.	0.	0.	0.	0.	9.17-10	1.98-09	7.12-10
6.00 01 0.	0.	0.	0.	1.18-09	4.82-10	1.26-09	4.90-10
8.00 01 0.	0.	0.	0.	4.32-10	1.80-10	6.55-10	3.21-10
9.00 01 0.	0.	0.	0.	0.	1.62-10	5.20-10	3.77-10
1.00 02 0.	0.	0.	0.	0.	1.88-10	1.03-09	4.25-10
1.20 02 0.	0.	0.	8.79-11	3.27-12	1.09-10	1.84-10	3.25-10
1.40 02 0.	0.	0.	0.	4.59-13	1.89-10	2.99-10	8.10-10
1.60 02 0.	0.	0.	0.	0.	1.38-10	1.58-09	1.64-10
1.80 02 0.	0.	0.	0.	0.	1.56-10	6.90-11	8.82-11
0.	0.	0.	2.87-11	4.57-10	5.79-10	1.81-09	9.22-10
0.	0.	0.	2.87-11	3.44-10	1.82-10	3.78-10	1.71-10

PHI 90 TO 135 DEGREES

2.00 01 0.	0.	0.	0.	2.19-08	1.88-09	1.02-09	1.27-10
4.00 01 0.	0.	0.	0.	0.	0.	5.89-11	3.53-10
6.00 01 0.	0.	0.	0.	0.	0.	2.36-10	2.01-10
8.00 01 0.	0.	0.	0.	0.	0.	1.28-09	1.12-09
9.00 01 0.	0.	0.	0.	0.	0.	4.51-10	1.92-11
1.00 02 0.	0.	0.	0.	0.	0.	3.19-10	3.27-10
1.20 02 0.	0.	0.	0.	0.	8.63-13	4.40-10	1.57-09
1.40 02 0.	0.	0.	0.	0.	6.27-11	8.73-11	1.77-10
1.60 02 0.	0.	0.	0.	0.	4.24-13	5.60-10	2.52-10
1.80 02 0.	0.	0.	0.	0.	9.43-11	1.58-10	3.26-11
0.	0.	0.	0.	1.32-09	1.36-10	9.58-10	1.16-09
0.	0.	0.	0.	1.32-09	1.14-10	2.45-10	4.82-10

PHI 135 TO 180 DEGREES

2.00 01 0.	0.	0.	0.	0.	0.	7.67-10	9.85-10
4.00 01 0.	0.	0.	0.	0.	0.	1.43-13	3.82-09
6.00 01 0.	0.	0.	0.	0.	0.	2.11-13	7.51-10
8.00 01 0.	0.	0.	0.	0.	0.	1.47-10	3.46-09
9.00 01 0.	0.	0.	0.	0.	0.	1.12-09	5.53-10
1.00 02 0.	0.	0.	0.	0.	0.	2.83-10	1.84-10
1.20 02 0.	0.	0.	0.	0.	0.	5.36-12	3.61-09
1.40 02 0.	0.	0.	0.	0.	0.	1.63-10	1.94-09
1.60 02 0.	0.	0.	0.	0.	3.44-12	2.95-10	9.17-11
1.80 02 0.	0.	0.	0.	2.93-11	8.33-11	4.54-10	9.63-11
0.	0.	0.	0.	1.77-12	5.62-12	4.61-10	3.90-09
0.	0.	0.	0.	1.77-12	5.06-12	1.69-10	1.54-09

321371614651 3112454261 71

AIR SCATTERING 2.31 02 ENERGY 1.00 ANGLE 6.00 01 DIST. 1.98 03
3.50 01 1.16 03 0. 0. 3.72 04 5.00 01 1.20 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.	1.40-08
0.	0.	0.	0.	0.	0.	0.	3.49-09
0.	0.	0.	0.	0.	0.	0.	1.78-09
0.	0.	0.	0.	0.	0.	0.	1.22-09
0.	0.	0.	0.	0.	0.	0.	9.10-10
0.	0.	0.	0.	0.	0.	0.	6.92-10
0.	0.	0.	0.	0.	0.	0.	2.23-10
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.	2.67-09

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		
4.20-11	4.22-10	1.12-11	2.49-11	8.07-13	2.93-22	1.03-33	1.01-08	1.33-09
1.29-10	2.15-10	1.25-10	1.09-11	3.10-11	7.47-20	1.06-27	2.58-09	3.55-10
2.96-09	4.14-10	1.66-10	1.59-10	3.58-11	2.05-18	1.31-27	1.51-09	1.83-10
1.71-08	5.63-10	1.00-09	4.85-11	4.34-13	3.16-17	7.80-28	1.64-09	4.13-10
7.33-10	4.68-10	6.19-10	2.05-11	4.59-12	4.93-17	3.98-30	8.66-10	1.01-10
2.14-09	1.29-09	1.79-10	4.79-11	1.53-11	2.36-18	3.39-30	8.98-10	1.10-10
1.09-09	6.28-10	1.62-09	1.64-10	4.93-13	3.10-16	1.93-26	6.24-10	1.12-10
1.34-09	3.99-10	5.09-10	1.80-10	1.73-12	7.37-17	2.34-24	2.15-10	9.11-11
3.59-10	1.21-08	2.21-10	4.44-10	2.15-12	1.21-16	4.73-24	2.40-10	1.81-10
3.68-10	1.27-10	2.31-11	1.29-11	8.50-15	2.02-19	1.56-27	8.74-11	6.07-11
7.68-09	3.08-09	1.24-09	2.53-10	1.96-11	1.62-16	1.45-24		
5.56-09	2.09-09	7.39-10	1.02-10	1.44-11	1.04-16	1.03-24	2.60-09	2.18-10

PHI 45 TO 90 DEGREES

1.91-10	3.55-11	8.10-13	4.12-11	1.13-12	3.38-18	2.37-31	2.43-10	1.19-10
5.31-10	7.74-11	6.17-11	2.44-11	1.05-11	1.08-17	3.85-26	1.65-10	5.22-11
2.27-10	1.63-10	4.48-10	2.99-11	9.24-13	1.97-16	6.04-26	2.11-10	1.13-10
1.45-09	6.12-10	2.89-09	3.94-11	1.20-13	1.73-16	3.93-26	1.66-10	5.67-11
7.39-10	3.40-10	1.51-10	8.56-11	6.32-13	2.75-18	2.96-28	6.79-11	1.69-11
9.03-10	8.57-10	8.95-11	2.90-11	1.68-12	6.08-18	3.90-28	1.02-10	3.04-11
1.39-09	1.73-10	6.90-11	4.23-11	1.58-13	8.77-17	5.53-26	7.15-11	2.03-11
1.17-09	8.03-10	4.61-11	2.09-10	1.87-12	9.13-14	5.38-25	9.27-11	2.15-11
8.33-10	2.69-10	5.78-09	1.27-11	2.22-13	5.52-15	3.81-26	1.70-10	8.14-11
1.94-09	2.72-10	1.91-10	2.71-10	3.68-12	3.52-19	2.36-28	7.10-11	3.94-11
1.95-09	8.00-10	2.16-09	1.35-10	3.40-12	2.54-14	2.04-25		
4.59-10	1.81-10	1.30-09	4.99-11	1.75-12	2.49-14	1.98-25	2.65-10	4.54-11

PHI 90 TO 135 DEGREES

2.56-10	1.48-10	1.24-10	1.43-12	2.96-14	5.70-18	4.00-31	2.12-09	1.97-09
1.86-10	6.79-11	4.21-11	1.16-11	1.32-12	1.21-16	1.89-23	2.06-11	5.89-12
4.64-10	1.95-10	2.54-10	7.37-11	1.47-13	1.43-17	2.79-26	3.45-11	1.09-11
2.85-10	7.08-10	1.16-09	1.11-10	1.31-13	2.26-17	1.03-24	1.22-10	3.45-11
2.69-10	3.86-10	3.08-11	7.87-12	3.01-13	2.59-18	7.23-31	3.16-11	1.13-11
1.23-10	2.64-10	2.67-09	1.32-11	4.13-12	1.18-18	1.22-28	6.31-11	3.29-11
2.03-10	2.26-09	7.98-10	6.58-11	1.68-11	1.98-16	5.13-28	1.20-10	5.22-11
7.22-10	2.19-09	8.47-10	8.02-11	1.79-12	4.70-16	3.25-26	7.44-11	2.73-11
1.98-10	1.45-08	1.71-10	5.21-10	1.12-13	3.12-15	3.78-24	2.60-10	2.13-10
1.97-10	2.55-11	3.16-10	3.43-10	1.05-15	4.66-14	2.40-33	2.43-11	8.87-12
6.37-10	4.25-09	1.46-09	2.16-10	7.06-12	3.57-15	4.29-24		
1.63-10	2.60-09	6.78-10	1.05-10	5.12-12	2.78-15	3.36-24	3.02-10	1.27-10

PHI 135 TO 180 DEGREES

2.23-10	1.80-09	7.92-11	2.52-11	2.00-14	1.12-15	1.38-27	9.79-11	4.34-11
5.06-09	2.45-10	1.72-10	1.59-11	5.49-13	5.93-19	8.19-31	2.62-10	2.27-10
4.73-10	2.49-10	1.35-10	2.18-11	1.33-12	6.32-17	6.52-23	4.29-11	1.80-11
1.25-09	6.86-10	2.70-09	3.25-11	9.65-13	1.08-15	7.28-23	1.98-10	1.18-10
9.42-10	2.49-10	3.51-10	7.26-11	2.34-14	2.63-17	5.07-24	9.56-11	3.78-11
1.82-10	1.15-09	2.38-10	2.37-11	4.28-14	4.29-15	2.32-24	4.25-11	1.82-11
2.08-09	6.27-11	1.88-10	8.20-10	1.19-09	2.53-16	3.79-20	1.93-10	9.80-11
1.34-10	2.59-10	7.00-10	1.91-11	3.81-12	1.39-16	3.16-22	8.84-11	6.46-11
5.49-10	5.58-09	5.08-11	2.86-11	7.00-13	2.33-20	8.72-32	1.13-10	7.63-11
1.55-10	6.16-09	8.91-12	1.40-09	6.83-12	2.00-14	9.08-28	1.37-10	9.41-11
2.44-09	2.11-09	1.31-09	3.99-10	3.90-10	2.51-15	1.25-20		
1.02-09	9.78-10	8.42-10	2.65-10	3.86-10	1.43-15	1.24-20	2.66-10	7.58-11
							5.40-09	4.87-10

AIR SCATTERING 2.32 02 ENERGY 1.00 ANGLE 9.00 01 DIST. 1.98 03
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.	4.54-08	3.63-08	0.	0.	0.
4.00 01 0.	0.	0.	0.	2.49-08	0.	0.	0.
6.00 01 0.	0.	0.	0.	1.24-08	0.	0.	0.
8.00 01 0.	0.	0.	0.	2.55-09	4.40-09	0.	0.
9.00 01 0.	0.	0.	0.	0.	5.44-10	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.	2.74-09	1.06-08	1.53-09	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.	3.26-08	2.99-08	2.38-09	3.40-09	1.59-11
4.00 01 0.	0.	0.	5.94-10	1.62-08	2.13-09	1.67-09	1.91-09
6.00 01 0.	0.	0.	0.	9.16-09	3.00-09	4.48-10	1.75-09
8.00 01 0.	0.	0.	0.	2.39-09	5.31-09	9.75-10	1.87-09
9.00 01 0.	0.	0.	0.	2.01-11	3.37-09	6.13-10	8.14-10
1.00 02 0.	0.	0.	0.	1.17-11	1.74-09	2.14-10	6.05-10
1.20 02 0.	0.	0.	0.	4.51-13	7.86-10	5.73-10	6.20-10
1.40 02 0.	0.	0.	0.	0.	6.63-10	6.06-10	3.02-10
1.60 02 0.	0.	0.	0.	1.55-13	7.79-12	2.02-10	9.39-09
1.80 02 0.	0.	0.	0.	0.	0.	2.63-10	3.59-11
0.	0.	0.	2.07-09	7.84-09	4.37-09	1.48-09	3.57-09
0.	0.	0.	4.03-10	5.32-10	4.36-10	2.11-10	1.27-09

PHI 45 TO 90 DEGREES

2.00 01 0.	0.	0.	0.	0.	1.26-09	8.42-10	6.62-09
4.00 01 0.	0.	0.	0.	0.	5.87-11	9.42-10	8.88-10
6.00 01 0.	0.	0.	0.	0.	1.18-10	4.43-10	3.02-09
8.00 01 0.	0.	0.	0.	0.	5.75-11	8.83-10	4.39-10
9.00 01 0.	0.	0.	0.	0.	7.53-12	6.80-10	3.78-10
1.00 02 0.	0.	0.	0.	0.	2.79-11	9.33-11	3.52-10
1.20 02 0.	0.	0.	0.	0.	1.17-10	3.70-10	1.75-10
1.40 02 0.	0.	0.	0.	9.54-11	4.91-12	1.94-09	7.09-10
1.60 02 0.	0.	0.	0.	0.	7.66-12	9.07-10	1.52-10
1.80 02 0.	0.	0.	0.	0.	3.59-12	5.12-12	3.11-11
0.	0.	0.	0.	2.54-11	1.84-10	1.55-09	1.90-09
0.	0.	0.	0.	2.54-11	8.25-11	3.87-10	5.54-10

PHI 90 TO 135 DEGREES

2.00 01 0.	0.	0.	0.	0.	0.	2.61-09	5.88-10
4.00 01 0.	0.	0.	0.	0.	0.	6.39-10	3.13-10
6.00 01 0.	0.	0.	0.	0.	0.	1.44-09	5.60-10
8.00 01 0.	0.	0.	0.	0.	0.	6.05-10	4.84-10
9.00 01 0.	0.	0.	0.	0.	9.25-12	2.29-09	1.31-10
1.00 02 0.	0.	0.	0.	0.	0.	2.70-10	3.77-10
1.20 02 0.	0.	0.	0.	0.	0.	9.65-11	1.62-10
1.40 02 0.	0.	0.	0.	0.	9.47-11	4.74-10	4.90-10
1.60 02 0.	0.	0.	0.	0.	9.90-11	4.16-11	1.24-10
1.80 02 0.	0.	0.	0.	0.	0.	6.66-11	1.45-10
0.	0.	0.	0.	0.	4.40-11	1.46-09	6.99-10
0.	0.	0.	0.	0.	3.05-11	3.92-10	1.67-10

PHI 135 TO 180 DEGREES

2.00 01 0.	0.	0.	0.	0.	0.	1.59-09	2.86-10
4.00 01 0.	0.	0.	0.	1.94-09	6.00-10	4.33-10	8.70-09
6.00 01 0.	0.	0.	0.	0.	0.	1.04-09	5.70-10
8.00 01 0.	0.	0.	0.	0.	0.	1.88-09	1.36-09
9.00 01 0.	0.	0.	0.	0.	0.	1.42-09	3.55-10
1.00 02 0.	0.	0.	0.	0.	0.	1.17-10	1.30-10
1.20 02 0.	0.	0.	0.	0.	0.	4.77-10	2.72-10
1.40 02 0.	0.	0.	0.	0.	0.	2.47-09	2.09-10
1.60 02 0.	0.	0.	0.	0.	0.	1.60-10	9.60-11
1.80 02 0.	0.	0.	0.	0.	0.	1.88-08	3.80-11
0.	0.	0.	0.	3.36-10	1.04-10	3.30-09	2.37-09
0.	0.	0.	0.	3.36-10	1.04-10	1.36-09	1.43-09

311245426171 141207772131

AIR SCATTERING 2.32 02 ENERGY 1.00 ANGLE 9.00 01 DIST. 1.98 03
1.70 01 1.17 03 0. 0. 3.65 04 5.00 01 1.20 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.	7.81-09
0.	0.	0.	0.	0.	0.	0.	2.24-09
0.	0.	0.	0.	0.	0.	0.	1.11-09
0.	0.	0.	0.	0.	0.	0.	4.49-10
0.	0.	0.	0.	0.	0.	0.	2.72-11
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.
							1.31-09

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		
8.92-11	3.67-10	4.73-09	1.78-11	7.15-14	7.80-18	8.23-34	6.27-09	9.11-10
8.16-10	3.11-10	1.31-09	4.99-11	5.41-14	1.23-18	1.56-30	1.80-09	1.99-10
5.07-09	3.65-10	2.24-10	6.79-11	1.95-13	5.88-16	4.37-30	1.19-09	1.44-10
2.08-09	2.15-09	1.83-10	1.23-10	2.02-12	1.18-16	1.14-24	6.71-10	6.61-11
2.13-09	7.77-10	1.53-10	1.46-10	1.20-12	8.42-19	3.49-27	2.91-10	5.44-11
2.24-10	4.42-10	2.97-10	6.32-11	3.53-12	3.27-17	3.39-29	1.34-10	2.98-11
2.29-10	1.00-10	1.03-10	1.51-11	1.37-12	2.71-15	7.77-30	9.20-11	1.89-11
3.12-10	6.84-10	4.18-11	7.01-12	2.75-13	6.94-16	8.42-28	8.63-11	3.13-11
1.63-10	4.09-11	2.00-11	3.49-11	4.92-14	4.82-16	1.50-24	3.33-10	2.32-10
9.64-12	6.88-10	1.43-10	8.48-12	8.83-15	1.89-19	1.27-30	2.41-11	1.20-11
2.77-09	1.35-09	7.66-10	1.18-10	2.08-12	1.36-15	6.34-25		
1.20-09	4.40-10	3.41-10	4.05-11	8.28-13	9.11-16	4.38-25	1.41-09	9.15-11

PHI 45 TO 90 DEGREES

4.54-10	1.23-10	3.46-11	2.94-12	4.85-15	2.79-16	2.33-26	3.36-10	1.92-10
2.34-10	3.34-10	3.33-10	3.83-11	3.84-14	2.96-16	1.83-21	8.60-11	1.80-11
3.45-10	3.19-10	2.27-10	4.42-11	1.51-13	2.90-18	3.49-22	1.43-10	5.78-11
7.43-10	3.11-10	4.42-10	9.25-12	2.76-13	1.79-17	3.81-26	8.17-11	1.64-11
3.07-10	2.86-10	1.18-10	4.62-12	4.33-13	4.69-16	1.08-28	5.39-11	1.95-11
5.52-10	4.99-10	4.47-10	1.43-11	7.37-13	6.53-15	5.84-29	4.39-11	1.40-11
1.94-10	7.10-10	4.51-10	6.53-11	2.41-12	1.84-16	7.72-25	4.81-11	1.17-11
6.53-10	7.35-10	9.61-11	4.44-11	5.23-13	1.76-18	2.63-26	1.39-10	4.75-11
1.63-10	1.12-09	5.87-10	3.62-11	8.49-15	2.14-15	1.71-27	7.01-11	3.11-11
1.55-10	1.60-09	5.65-11	4.97-12	1.36-16	6.37-19	7.17-34	3.00-11	1.55-11
8.26-10	1.11-09	6.41-10	6.46-11	1.27-12	1.72-15	4.11-22		
1.77-10	2.45-10	1.62-10	2.08-11	5.48-13	1.20-15	4.09-22	1.84-10	2.69-11

PHI 90 TO 135 DEGREES

4.22-09	7.45-10	9.50-11	5.46-13	2.99-16	7.24-20	7.45-23	2.42-10	1.15-10
3.48-10	1.38-10	2.37-10	7.24-13	2.94-13	1.58-18	8.86-30	4.98-11	1.29-11
2.47-09	3.08-10	7.78-10	1.20-11	7.86-13	3.95-16	1.13-28	1.52-10	5.84-11
7.68-10	6.76-11	1.11-10	2.35-11	7.57-14	7.90-18	2.40-27	6.24-11	2.32-11
7.07-11	5.52-10	3.40-11	1.34-11	3.51-13	9.35-19	2.71-27	1.07-10	6.88-11
2.38-10	4.45-10	5.74-10	8.08-12	2.41-13	1.36-18	7.70-28	4.32-11	1.36-11
2.37-10	1.19-10	3.29-10	2.14-11	8.47-13	9.34-15	1.73-26	2.12-11	6.49-12
5.79-10	7.35-11	4.16-10	9.17-11	9.59-14	4.13-18	2.24-27	6.18-11	2.04-11
1.78-10	1.78-09	1.94-09	9.57-11	2.02-12	3.55-18	3.15-26	6.62-11	3.43-11
1.87-10	1.67-09	6.50-10	4.06-12	1.91-14	2.26-17	0.	4.52-11	1.98-11
1.55-09	8.15-10	9.90-10	6.31-11	1.04-12	3.16-15	4.51-24		
6.03-10	3.28-10	4.30-10	2.90-11	6.00-13	3.05-15	4.49-24	1.48-10	2.47-11

PHI 135 TO 180 DEGREES

3.43-10	1.47-10	5.11-09	1.94-12	8.05-15	4.30-19	6.72-32	1.45-10	6.81-11
1.67-09	2.48-10	8.88-11	9.26-11	4.70-14	6.92-18	1.03-31	5.65-10	3.27-10
2.40-10	3.65-09	5.11-11	1.05-11	3.86-11	1.23-19	2.59-23	1.23-10	6.29-11
4.84-10	1.56-09	1.44-10	3.19-11	9.27-14	1.77-17	1.33-30	1.59-10	6.03-11
1.19-10	1.05-10	3.03-10	6.73-11	1.28-13	1.17-16	7.88-29	7.77-11	5.75-11
1.82-10	6.46-10	3.88-11	1.50-12	4.95-13	6.34-15	1.27-27	2.38-11	9.45-12
2.34-10	7.39-10	2.43-10	4.27-12	8.33-13	2.27-14	2.99-30	4.82-11	2.15-11
3.76-09	4.08-09	1.90-10	1.27-11	1.76-14	3.62-18	1.50-28	2.64-10	1.73-10
1.67-09	8.28-11	1.48-11	8.08-11	1.49-12	1.62-14	1.62-34	5.36-11	3.87-11
4.23-10	5.09-11	4.85-11	2.84-12	1.89-15	2.03-23	8.92-35	7.64-10	7.08-10
1.98-09	3.00-09	5.78-10	6.00-11	1.09-11	1.14-14	6.88-24		
1.00-09	1.45-09	3.05-10	2.82-11	1.03-11	8.96-15	6.88-24	3.50-10	9.10-11
							3.29-09	2.52-10

AIR SCATTERING 2.33 02 ENERGY 1.00 ANGLE 1.35 02 DIST. 1.98 03
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.	9.61-08	0.	0.	0.
4.00 01 0.	0.	0.	0.	2.83-09	2.28-08	0.	0.
6.00 01 0.	0.	0.	0.	0.	7.40-11	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.	6.28-09	3.98-09	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.	6.29-08	8.51-09	2.05-09	1.02-09
4.00 01 0.	0.	0.	0.	9.04-09	2.16-08	1.35-09	1.68-09
6.00 01 0.	0.	0.	0.	4.16-11	2.14-09	1.28-09	1.52-09
8.00 01 0.	0.	0.	0.	9.92-14	7.13-10	3.57-10	8.12-10
9.00 01 0.	0.	0.	0.	0.	1.40-10	1.02-09	4.06-10
1.00 02 0.	0.	0.	0.	0.	4.12-10	6.71-10	4.91-10
1.20 02 0.	0.	0.	0.	0.	1.94-11	2.71-10	2.83-10
1.40 02 0.	0.	0.	0.	0.	4.11-12	2.13-10	1.04-10
1.60 02 0.	0.	0.	0.	0.	0.	7.93-10	4.44-10
1.80 02 0.	0.	0.	0.	0.	0.	7.69-12	6.70-13
0.	0.	0.	0.	5.37-09	5.16-09	1.39-09	1.38-09
0.	0.	0.	0.	7.57-10	3.54-10	1.93-10	2.17-10

PHI 45 TO 90 DEGREES

2.00 01 0.	0.	0.	0.	0.	6.41-09	4.37-09	1.14-09
4.00 01 0.	0.	0.	0.	0.	2.18-09	9.68-10	5.63-10
6.00 01 0.	0.	0.	0.	0.	3.46-10	7.23-10	3.99-10
8.00 01 0.	0.	0.	0.	0.	1.13-10	1.04-09	6.16-10
9.00 01 0.	0.	0.	0.	0.	3.86-12	4.27-09	1.11-10
1.00 02 0.	0.	0.	0.	5.42-11	7.78-11	3.69-10	2.20-10
1.20 02 0.	0.	0.	0.	4.44-12	1.16-11	7.73-10	1.28-09
1.40 02 0.	0.	0.	0.	0.	4.72-12	1.03-10	6.81-11
1.60 02 0.	0.	0.	0.	0.	0.	3.76-11	3.94-10
1.80 02 0.	0.	0.	0.	0.	2.55-12	5.09-11	2.04-10
0.	0.	0.	0.	1.09-11	9.13-10	2.06-09	1.05-09
0.	0.	0.	0.	6.70-12	1.98-10	6.55-10	3.23-10

PHI 90 TO 135 DEGREES

2.00 01 0.	0.	0.	0.	0.	7.91-10	1.69-09	1.01-10
4.00 01 0.	0.	0.	0.	0.	4.86-10	8.00-10	5.19-10
6.00 01 0.	0.	0.	0.	0.	9.83-12	6.42-10	6.56-10
8.00 01 0.	0.	0.	0.	0.	0.	1.44-09	6.81-10
9.00 01 0.	0.	0.	0.	0.	3.14-12	3.98-10	5.60-09
1.00 02 0.	0.	0.	0.	0.	4.32-11	8.93-11	4.19-11
1.20 02 0.	0.	0.	0.	5.87-14	1.52-11	4.15-10	3.75-10
1.40 02 0.	0.	0.	0.	0.	6.88-14	3.32-12	1.83-10
1.60 02 0.	0.	0.	0.	0.	0.	0.	1.10-09
1.80 02 0.	0.	0.	0.	0.	0.	1.91-12	8.53-10
0.	0.	0.	0.	1.91-14	1.48-10	1.10-09	1.89-09
0.	0.	0.	0.	1.91-14	6.20-11	3.00-10	8.97-10

PHI 135 TO 180 DEGREES

2.00 01 0.	0.	0.	0.	0.	3.42-10	1.46-09	5.74-10
4.00 01 0.	0.	0.	0.	0.	3.44-10	7.73-10	3.04-10
6.00 01 0.	0.	0.	0.	0.	0.	1.68-10	3.73-10
8.00 01 0.	0.	0.	0.	0.	3.45-14	3.68-10	8.95-10
9.00 01 0.	0.	0.	0.	0.	0.	4.66-10	7.01-11
1.00 02 0.	0.	0.	0.	0.	0.	1.72-11	3.94-10
1.20 02 0.	0.	0.	0.	0.	0.	5.06-10	4.83-10
1.40 02 0.	0.	0.	0.	0.	1.85-13	4.74-14	3.03-10
1.60 02 0.	0.	0.	0.	0.	2.05-11	2.12-14	2.62-10
1.80 02 0.	0.	0.	0.	0.	0.	3.31-11	5.10-10
0.	0.	0.	0.	0.	8.40-11	6.38-10	8.74-10
0.	0.	0.	0.	0.	5.90-11	1.84-10	1.98-10

3672030 02645 343032477345

AIR SCATTERING 2.33 02 ENERGY 1.00 ANGLE 1.35 02 DIST. 1.98 03

5.30 01	1.72 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.	8.65-09
0.	0.	0.	0.	0.	0.	0.	1.39-09
0.	0.	0.	0.	0.	0.	0.	3.70-12
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	7.65-10

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			
6.88-10	6.05-10	1.00-10	1.12-11	2.69-13	8.37-19	7.86-31	6.23-09	4.39-10	
1.32-09	7.85-10	2.22-10	1.28-10	1.96-12	1.14-15	3.67-28	2.05-09	3.55-10	
8.71-10	1.83-09	6.26-10	6.85-11	2.07-13	1.50-15	2.29-28	2.71-10	4.38-11	
8.39-10	2.31-10	3.50-10	4.11-10	1.30-12	7.86-16	3.12-26	1.10-10	1.80-11	
1.59-09	3.77-09	7.26-10	3.46-11	8.91-12	1.35-14	1.68-23	1.67-10	5.44-11	
2.70-10	6.00-10	7.29-11	2.78-11	1.58-11	4.68-14	1.18-20	8.11-11	2.56-11	
3.51-10	4.10-10	1.91-09	3.55-11	4.10-13	1.88-16	7.22-26	5.96-11	2.28-11	
6.99-10	7.56-10	1.29-09	1.68-11	2.94-13	1.28-19	1.31-26	5.67-11	2.48-11	
9.81-11	3.04-10	6.06-10	5.28-11	2.00-13	2.28-18	4.55-26	6.16-11	2.66-11	
1.86-10	5.25-11	9.11-12	7.59-12	1.15-13	3.19-18	1.80-27	5.94-12	4.39-12	
1.43-09	1.89-09	1.54-09	2.12-10	5.37-12	1.14-14	2.06-21			
2.61-10	6.42-10	9.24-10	1.15-10	4.01-12	9.69-15	2.06-21	9.29-10	7.71-11	

PHI 45 TO 90 DEGREES

1.86-10	3.06-10	3.38-10	3.43-11	6.44-13	1.19-16	1.03-25	5.48-10	1.76-10	
6.18-10	3.55-10	2.39-10	1.65-10	7.24-13	4.55-15	2.09-24	1.92-10	4.15-11	
5.41-10	7.03-10	6.10-10	9.31-11	5.98-13	9.99-16	5.44-23	9.20-11	1.41-11	
8.60-10	6.54-10	4.21-10	2.65-10	3.25-12	9.50-16	2.84-23	1.07-10	2.27-11	
1.68-10	3.56-10	3.33-10	2.64-10	4.35-11	1.43-16	4.22-25	1.91-10	1.33-10	
5.14-10	1.55-10	2.28-10	6.20-11	1.70-11	3.01-16	5.28-24	4.96-11	1.36-11	
6.06-10	2.83-09	2.36-10	7.21-11	2.16-13	8.74-16	1.20-26	1.37-10	5.41-11	
1.08-10	2.40-09	2.01-09	3.34-11	2.15-13	1.35-16	6.31-27	6.98-11	3.54-11	
7.56-11	2.88-11	4.86-11	5.15-11	3.08-12	8.08-17	1.59-29	1.83-11	8.11-12	
1.84-10	4.67-12	3.35-11	2.03-13	1.43-15	5.62-18	2.79-32	1.42-11	7.19-12	
9.13-10	2.14-09	1.08-09	2.40-10	1.25-11	1.79-15	2.51-23			
2.34-10	1.02-09	3.96-10	1.39-10	1.19-11	8.98-16	1.72-23	2.35-10	3.75-11	

PHI 90 TO 135 DEGREES

1.54-10	1.02-09	8.76-10	1.89-11	8.92-14	1.57-19	1.03-29	1.41-10	4.50-11	
9.90-10	5.06-10	2.46-10	1.26-11	9.02-13	1.69-14	4.71-26	1.09-10	2.65-11	
2.51-10	4.82-10	1.97-10	2.76-11	1.41-12	2.04-16	8.70-27	6.46-11	1.83-11	
2.44-10	4.86-10	1.09-09	1.86-11	3.05-12	6.13-16	2.47-22	1.07-10	3.61-11	
4.32-10	3.19-10	1.90-10	3.93-11	6.67-13	1.28-16	1.03-26	2.25-10	1.69-10	
2.37-10	2.01-10	9.66-11	1.18-11	7.35-13	9.73-17	1.29-25	1.74-11	5.61-12	
2.23-10	5.43-10	2.24-09	2.77-10	4.43-13	6.40-17	3.46-25	7.32-11	2.58-11	
4.01-10	2.40-10	1.16-10	2.79-11	2.05-12	2.86-16	3.11-26	2.16-11	7.36-12	
4.44-10	2.70-11	1.28-10	2.09-11	2.55-13	2.30-16	1.32-27	5.07-11	3.72-11	
3.94-10	3.95-10	2.77-11	5.74-13	3.02-13	6.18-22	3.91-29	4.52-11	3.11-11	
7.24-10	7.96-10	1.34-09	1.27-10	2.53-12	3.37-15	8.07-23			
1.21-10	2.00-10	6.70-10	6.59-11	9.97-13	2.97-15	8.05-23	1.63-10	3.57-11	

PHI 135 TO 180 DEGREES

3.48-11	6.82-10	3.53-10	2.30-12	1.88-13	1.01-18	4.68-33	1.10-10	3.33-11	
2.50-10	6.85-10	2.79-10	6.36-11	3.09-12	1.25-15	4.70-25	7.89-11	2.39-11	
3.10-10	4.17-10	1.42-10	5.75-11	2.93-13	5.38-18	3.01-27	3.56-11	9.30-12	
6.71-10	1.77-10	1.78-10	2.48-11	1.90-12	1.37-15	3.93-25	6.70-11	1.99-11	
2.45-10	7.97-11	1.45-10	1.33-11	8.46-13	6.72-17	1.22-23	3.02-11	1.60-11	
1.04-09	2.88-10	2.26-11	1.44-11	1.28-11	5.96-16	4.02-28	4.49-11	2.36-11	
1.83-10	1.46-10	1.05-10	3.52-11	1.19-12	3.43-16	7.01-26	4.50-11	2.04-11	
1.03-10	1.88-10	1.30-10	1.38-11	7.47-13	1.35-15	1.33-24	1.74-11	6.44-12	
7.64-11	1.51-10	5.12-10	1.57-11	6.52-13	4.07-18	1.63-24	2.04-11	7.68-12	
2.36-10	8.94-12	2.14-09	6.83-13	1.15-14	2.96-24	1.10-29	5.04-11	2.08-11	
6.85-10	5.17-10	4.82-10	5.73-11	4.32-12	1.25-15	3.00-24			
2.05-10	1.13-10	1.68-10	1.81-11	2.55-12	5.87-16	2.28-24	9.06-11	1.30-11	
							2.23-09	1.64-10	

AIR SCATTERING 2.34 02 ENERGY 1.00 ANGLE 1.80 02 DIST. 1.98 03
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.	2.17-07	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.	1.31-08	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.	1.60-13	1.45-07	3.12-09	5.90-10
4.00 01 0.	0.	0.	0.	4.08-14	2.89-09	8.09-10	2.79-09
6.00 01 0.	0.	0.	0.	0.	5.19-10	7.56-10	7.06-10
8.00 01 0.	0.	0.	0.	0.	6.90-13	3.17-10	4.74-10
9.00 01 0.	0.	0.	0.	0.	0.	8.22-10	7.22-10
1.00 02 0.	0.	0.	0.	0.	0.	7.72-11	6.44-11
1.20 02 0.	0.	0.	0.	0.	0.	1.01-10	2.46-10
1.40 02 0.	0.	0.	0.	0.	0.	1.92-11	1.04-09
1.60 02 0.	0.	0.	0.	0.	0.	0.	8.62-11
1.80 02 0.	0.	0.	0.	0.	0.	0.	2.58-09
0.	0.	0.	0.	1.67-14	9.41-09	8.27-10	1.53-09
0.	0.	0.	0.	9.53-15	4.93-10	1.43-10	4.89-10

PHI 45 TO 90 DEGREES

2.00 01 0.	0.	0.	0.	2.77-10	1.11-08	9.95-09	8.05-10
4.00 01 0.	0.	0.	0.	0.	1.33-09	7.92-10	3.68-10
6.00 01 0.	0.	0.	0.	0.	1.98-10	1.24-09	5.48-10
8.00 01 0.	0.	0.	0.	0.	6.35-12	8.47-10	1.73-09
9.00 01 0.	0.	0.	0.	0.	4.24-12	8.68-10	2.31-10
1.00 02 0.	0.	0.	0.	0.	4.54-11	4.35-10	1.14-09
1.20 02 0.	0.	0.	0.	0.	2.47-12	4.90-10	5.63-10
1.40 02 0.	0.	0.	0.	0.	0.	1.10-10	6.06-10
1.60 02 0.	0.	0.	0.	0.	0.	0.	4.67-10
1.80 02 0.	0.	0.	0.	0.	0.	0.	2.28-12
0.	0.	0.	0.	1.67-11	9.66-10	1.76-09	1.49-09
0.	0.	0.	0.	1.06-11	1.70-10	5.60-10	3.37-10

PHI 90 TO 135 DEGREES

2.00 01 0.	0.	0.	0.	2.35-10	9.60-09	9.33-10	5.14-10
4.00 01 0.	0.	0.	0.	1.27-11	1.51-09	5.57-10	3.70-10
6.00 01 0.	0.	0.	0.	1.87-11	1.13-10	5.27-10	7.10-10
8.00 01 0.	0.	0.	0.	1.50-11	3.56-11	7.37-10	2.94-10
9.00 01 0.	0.	0.	0.	0.	0.	9.41-10	1.05-09
1.00 02 0.	0.	0.	0.	0.	0.	8.14-09	1.18-11
1.20 02 0.	0.	0.	0.	0.	0.	5.31-11	2.36-10
1.40 02 0.	0.	0.	0.	0.	0.	4.34-11	1.96-09
1.60 02 0.	0.	0.	0.	0.	0.	7.52-16	6.87-10
1.80 02 0.	0.	0.	0.	0.	0.	0.	3.33-11
0.	0.	0.	0.	2.63-11	8.84-10	2.14-09	1.28-09
0.	0.	0.	0.	1.64-11	1.38-10	1.29-09	4.67-10

PHI 135 TO 180 DEGREES

2.00 01 0.	0.	0.	0.	1.90-12	1.04-08	1.70-09	4.58-10
4.00 01 0.	0.	0.	0.	6.26-12	1.83-09	2.20-10	6.77-10
6.00 01 0.	0.	0.	0.	0.	2.26-10	8.92-10	9.23-10
8.00 01 0.	0.	0.	0.	0.	1.18-11	4.65-10	5.04-10
9.00 01 0.	0.	0.	0.	0.	1.66-11	4.23-10	7.88-10
1.00 02 0.	0.	0.	0.	2.06-10	2.44-14	2.38-10	2.22-10
1.20 02 0.	0.	0.	0.	0.	3.77-12	6.84-10	3.51-10
1.40 02 0.	0.	0.	0.	0.	0.	1.31-09	3.82-10
1.60 02 0.	0.	0.	0.	0.	0.	1.30-12	3.20-10
1.80 02 0.	0.	0.	0.	0.	0.	1.35-13	8.26-11
0.	0.	0.	0.	3.70-11	1.01-09	1.22-09	1.01-09
0.	0.	0.	0.	3.58-11	2.07-10	3.65-10	2.44-10

343032477345 112627644131

AIR SCATTERING 2.34 02 ENERGY 1.00 ANGLE 1.80 02 DIST. 1.98 03

4.20 01	1.74 03	0.	0.	5.49 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.	1.08-08
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.	6.53-10

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		
9.66-10	1.25-09	5.47-11	5.54-12	2.38-12	2.85-17	1.45-22	7.46-09	3.57-10
9.75-10	5.08-10	2.66-10	4.15-11	3.36-13	3.62-15	4.57-27	3.08-10	1.11-10
4.34-10	5.31-10	1.49-10	7.18-11	3.22-13	4.93-15	4.74-23	1.01-10	2.16-11
7.72-10	1.60-10	1.48-10	6.88-11	8.93-12	2.18-16	4.01-22	5.30-11	1.40-11
5.94-10	2.44-11	8.43-11	1.74-10	3.98-12	2.00-17	2.77-25	7.53-11	2.27-11
1.37-10	3.71-10	3.34-10	1.01-11	1.41-12	3.02-14	1.02-28	1.84-11	4.03-12
4.71-11	5.84-10	1.90-10	1.80-09	1.74-12	3.58-17	2.67-30	4.08-11	1.77-11
7.66-11	4.02-09	8.12-10	2.21-11	2.20-13	2.02-14	4.52-23	1.08-10	6.17-11
8.62-10	1.64-09	1.04-10	1.00-10	2.95-13	7.39-16	5.43-23	5.12-11	3.05-11
2.99-09	3.84-10	7.92-11	2.64-12	1.13-14	2.96-18	8.02-24	1.69-10	1.57-10
1.09-09	1.99-09	5.11-10	6.92-10	4.82-12	1.28-14	1.74-22		
2.90-10	1.09-09	1.83-10	5.74-10	2.74-12	1.06-14	1.44-22	6.25-10	3.88-11

PHI 45 TO 90 DEGREES

3.49-10	7.15-10	3.18-10	4.74-11	2.56-11	2.89-14	4.12-23	1.03-09	3.81-10
6.29-10	2.19-10	7.31-11	3.34-11	2.33-12	3.64-15	1.13-26	1.31-10	2.36-11
4.73-10	1.55-10	4.09-10	1.42-11	2.15-12	6.85-16	6.68-25	9.72-11	2.38-11
5.58-10	2.11-10	1.75-10	2.05-10	1.78-11	3.27-17	4.53-23	1.14-10	3.48-11
1.99-10	6.98-11	1.31-10	9.09-10	4.29-13	1.62-16	1.31-29	5.86-11	1.81-11
1.72-09	6.52-10	7.30-11	5.14-11	1.45-12	2.73-17	5.60-28	1.12-10	3.71-11
6.94-10	4.66-10	1.49-10	5.41-11	3.81-12	6.61-15	2.80-28	6.55-11	1.93-11
5.09-10	4.74-11	5.52-10	1.79-08	8.05-13	5.56-16	1.18-26	2.07-10	1.38-10
1.03-10	1.66-10	8.23-11	7.10-12	5.77-13	1.58-16	1.36-28	2.20-11	1.40-11
3.90-10	2.21-10	5.00-11	4.58-11	7.06-12	1.58-17	7.97-26	1.42-11	9.32-12
1.17-09	5.24-10	4.46-10	5.04-09	1.06-11	4.93-15	1.74-23		
2.84-10	1.25-10	1.46-10	4.15-09	6.17-12	2.75-15	1.50-23	2.59-10	4.81-11

PHI 90 TO 135 DEGREES

8.05-10	6.09-10	3.78-10	3.99-11	7.11-13	1.51-16	2.37-25	5.90-10	1.11-10
4.34-10	3.31-10	2.17-10	3.07-11	3.41-12	3.19-17	1.69-27	1.30-10	2.28-11
2.78-10	4.49-10	3.99-10	8.81-11	4.27-12	3.92-16	2.69-25	7.18-11	1.58-11
1.94-10	3.33-10	1.69-10	4.36-10	1.28-11	6.73-17	3.60-28	5.85-11	1.43-11
6.63-10	3.16-10	9.81-10	5.38-11	1.48-12	1.02-15	3.05-23	1.07-10	4.09-11
5.66-10	1.88-10	9.37-10	1.37-09	3.19-12	5.87-18	1.57-23	3.67-10	2.94-10
2.30-10	1.58-10	1.88-10	4.09-11	3.34-13	1.06-15	2.24-22	2.09-11	5.69-12
3.63-10	1.60-10	7.76-10	3.73-11	7.79-13	5.13-17	1.67-35	8.96-11	5.36-11
3.63-10	1.37-10	1.59-10	2.89-11	2.69-13	1.50-17	1.11-26	3.67-11	2.13-11
1.85-10	4.29-10	2.20-09	1.66-12	4.37-14	1.89-18	1.22-28	3.86-11	2.56-11
7.21-10	5.53-10	9.83-10	4.49-10	7.12-12	6.83-16	8.11-23		
1.12-10	8.74-11	3.64-10	2.71-10	3.09-12	3.37-16	7.32-23	2.18-10	5.54-11

PHI 135 TO 180 DEGREES

2.33-10	4.32-10	2.87-10	3.39-11	6.18-14	1.36-15	2.85-25	6.20-10	1.43-10
5.76-10	4.37-10	1.37-10	2.98-11	1.98-13	6.76-17	7.38-28	1.47-10	3.81-11
3.05-10	2.45-10	1.69-10	1.31-10	2.91-13	4.67-17	4.97-28	9.29-11	2.39-11
5.90-10	4.24-10	4.53-11	1.24-11	5.23-14	4.89-17	2.94-28	5.81-11	1.40-11
2.06-10	1.12-10	2.83-11	3.82-11	5.02-13	1.72-16	3.35-27	5.20-11	2.51-11
5.95-11	1.94-10	2.81-11	6.01-11	4.09-14	2.00-16	1.40-33	4.09-11	2.82-11
6.03-10	3.78-11	8.71-11	6.48-11	6.60-13	9.29-17	1.26-27	5.68-11	2.02-11
2.59-10	4.32-10	1.28-09	5.43-11	1.59-11	6.00-15	5.17-27	9.42-11	4.97-11
2.44-09	5.31-10	2.74-10	3.98-11	7.44-12	6.59-16	1.46-24	8.05-11	5.53-11
4.70-10	1.45-10	6.05-11	1.53-11	6.21-13	4.48-16	2.07-29	1.76-11	1.13-11
1.15-09	5.52-10	5.32-10	1.07-10	6.00-12	1.96-15	2.73-25		
4.65-10	1.49-10	3.03-10	2.92-11	3.87-12	1.09-15	2.52-25	1.81-10	2.44-11
							2.02-09	1.55-10

AIR SCATTERING 2.35 02 ENERGY 6.00-01 ANGLE 1.00 DIST. 1.98 03
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	2.49-05	0.	0.	0.	0.	0.	0.	0.
4.00 01	6.51-06	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	3.43-06	0.	0.	0.	0.	0.	0.
8.00 01	0.	8.84-07	8.18-07	0.	0.	0.	0.	0.
9.00 01	0.	0.	1.40-06	0.	0.	0.	0.	0.
1.00 02	0.	0.	1.26-06	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	2.20-06	0.	0.	0.	0.
1.40 02	0.	0.	0.	1.91-06	7.15-07	0.	0.	0.
1.60 02	0.	0.	0.	0.	4.63-06	0.	0.	0.
1.80 02	0.	0.	0.	0.	1.09-05	0.	0.	0.
	2.63-06	1.20-06	7.29-07	1.22-06	1.65-06	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	1.59-05	0.	0.	0.	1.42-09	8.07-12	3.46-07	6.55-09
4.00 01	4.15-06	0.	0.	0.	0.	2.46-09	4.38-09	1.84-10
6.00 01	0.	2.19-06	0.	0.	0.	6.63-11	1.76-08	6.00-10
8.00 01	0.	5.63-07	5.21-07	0.	3.61-10	2.62-09	3.17-09	2.24-09
9.00 01	0.	0.	8.92-07	4.76-09	7.61-10	5.48-09	5.82-10	3.10-10
1.00 02	0.	0.	8.03-07	0.	4.63-09	7.66-09	1.00-09	1.22-08
1.20 02	0.	0.	0.	1.44-06	1.18-09	4.67-09	2.31-09	1.19-09
1.40 02	0.	0.	0.	1.22-06	4.56-07	6.09-08	3.94-09	1.56-08
1.60 02	0.	0.	0.	5.50-12	3.05-06	1.66-09	1.81-09	2.57-09
1.80 02	0.	0.	0.	6.95-12	6.99-06	2.00-09	2.55-09	1.50-09
	1.68-06	7.65-07	4.64-07	7.95-07	1.07-06	2.17-08	2.99-08	8.55-09
	2.95-07	3.82-07	2.69-07	3.97-07	2.28-07	1.43-08	2.04-08	4.04-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	4.12-09	1.49-09	6.44-09	2.12-10	3.35-09	6.27-11
4.00 01	0.	0.	0.	0.	9.28-10	9.44-10	8.92-09	1.94-10
6.00 01	0.	0.	0.	1.04-08	8.94-08	9.93-11	5.85-09	4.88-10
8.00 01	0.	0.	0.	0.	1.58-09	5.51-10	5.70-09	3.00-09
9.00 01	0.	0.	0.	0.	7.62-10	2.46-09	1.68-09	3.99-10
1.00 02	0.	0.	0.	0.	3.21-12	1.56-09	1.33-09	7.04-10
1.20 02	0.	0.	0.	4.55-11	7.51-10	2.56-09	5.32-09	1.75-09
1.40 02	0.	0.	0.	1.37-11	6.35-09	9.15-08	6.45-09	6.31-10
1.60 02	0.	0.	0.	6.18-11	3.03-08	5.82-09	1.32-09	5.22-09
1.80 02	0.	0.	6.56-11	3.59-11	6.38-08	1.58-08	1.35-09	1.71-09
	0.	0.	2.52-10	2.90-09	3.60-08	2.82-08	9.45-09	3.08-09
	0.	0.	2.48-10	2.04-09	2.23-08	2.36-08	2.88-09	9.19-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	1.23-09	1.98-09	8.85-09	3.62-09	4.24-09
4.00 01	0.	0.	7.18-10	0.	0.	2.92-09	5.10-09	3.50-10
6.00 01	0.	0.	0.	0.	1.16-09	7.12-10	1.13-08	3.51-10
8.00 01	0.	0.	0.	1.96-10	1.68-09	1.62-09	1.45-09	9.86-10
9.00 01	0.	0.	0.	0.	8.84-13	4.27-10	8.68-10	6.61-10
1.00 02	0.	0.	0.	0.	2.27-11	1.35-08	1.61-09	2.31-09
1.20 02	0.	0.	0.	2.00-10	5.45-10	3.16-09	6.08-10	1.87-09
1.40 02	0.	0.	0.	3.80-15	5.69-10	1.18-08	1.41-09	2.35-09
1.60 02	0.	0.	0.	2.98-11	3.48-08	9.55-10	4.27-10	8.65-09
1.80 02	0.	4.90-11	1.09-10	3.94-10	4.98-08	1.18-09	8.34-10	1.30-08
	0.	2.95-12	1.31-10	2.32-10	1.04-08	9.59-09	5.71-09	4.77-09
	0.	2.95-12	1.25-10	1.18-10	4.36-09	2.56-09	2.06-09	2.00-09

PHI 135 TO 180 DEGREES

2.00 01	3.07-08	0.	0.	1.55-09	3.47-09	1.63-09	3.23-08	2.41-10
4.00 01	0.	0.	0.	0.	0.	2.42-09	3.84-09	4.55-10
6.00 01	0.	0.	0.	0.	4.94-10	4.21-09	2.76-09	7.54-10
8.00 01	0.	0.	0.	0.	2.61-08	5.15-10	4.15-09	1.36-09
9.00 01	0.	0.	0.	1.00-08	4.22-12	2.88-10	1.15-09	4.77-10
1.00 02	0.	0.	0.	5.37-11	6.28-10	8.38-10	8.62-10	5.30-10
1.20 02	0.	0.	0.	1.70-12	3.48-10	7.55-10	1.44-09	3.71-09
1.40 02	0.	0.	6.96-12	0.	9.38-09	3.28-09	1.53-08	8.46-10
1.60 02	0.	0.	1.09-10	2.29-11	1.25-09	3.82-09	1.40-09	1.84-09
1.80 02	0.	0.	8.88-11	1.15-10	3.14-08	2.71-09	1.55-09	3.08-09
	1.85-09	0.	2.61-11	1.86-09	1.37-08	3.95-09	9.93-09	2.85-09
	1.85-09	0.	1.47-11	1.75-09	8.55-09	8.42-10	3.67-09	6.34-10

3617460055 51 074666615475

AIR SCATTERING 2.35 02 ENERGY 6.00-01 ANGLE 1.00 DIST. 1.98 03
7.80 01 1.71 03 0. 0. 5.71 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.	3.73-06
0.	0.	0.	0.	0.	0.	0.	9.77-07
0.	0.	0.	0.	0.	0.	0.	3.43-07
0.	0.	0.	0.	0.	0.	0.	1.70-07
0.	0.	0.	0.	0.	0.	0.	1.40-07
0.	0.	0.	0.	0.	0.	0.	1.26-07
0.	0.	0.	0.	0.	0.	0.	1.10-07
0.	0.	0.	0.	0.	0.	0.	1.31-07
0.	0.	0.	0.	0.	0.	0.	2.31-07
0.	0.	0.	0.	0.	0.	0.	5.45-07
0.	0.	0.	0.	0.	0.	0.	7.32-07

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		
6.49-10	3.08-10	1.03-11	9.28-12	2.19-13	2.57-16	1.45-28	2.39-06	3.51-07
5.79-10	1.65-09	2.41-10	1.65-11	1.87-12	4.29-19	4.84-26	6.22-07	2.25-07
7.10-10	2.70-10	1.80-10	2.51-11	8.80-12	2.67-17	1.45-26	2.19-07	1.26-07
6.41-10	7.21-10	1.35-10	1.51-11	7.40-13	7.16-17	1.25-26	1.09-07	7.67-08
8.29-09	6.36-10	1.59-10	1.15-10	1.00-13	8.03-16	1.13-24	8.99-08	8.92-08
4.86-10	2.25-10	1.22-10	2.18-10	1.02-11	6.33-17	1.71-23	8.11-08	8.03-08
8.65-10	7.01-10	6.61-11	3.04-11	7.70-13	1.64-17	8.52-27	7.25-08	4.96-08
8.27-10	9.40-10	2.09-10	1.17-10	6.23-14	1.99-15	1.41-25	8.59-08	4.88-08
6.01-10	5.80-10	4.88-10	8.05-11	6.69-13	6.62-19	3.85-26	1.53-07	5.29-08
5.72-10	1.86-09	7.94-10	7.19-11	1.63-14	5.62-20	1.34-28	3.49-07	5.34-08
2.70-09	1.45-09	3.93-10	1.32-10	5.09-12	7.30-16	3.22-24		
1.28-09	3.20-10	1.21-10	4.92-11	2.99-12	6.02-16	2.94-24	4.70-07	6.79-08

PHI 45 TO 90 DEGREES

1.98-10	6.17-10	7.42-12	1.78-11	8.37-12	1.87-20	2.45-28	9.27-10	5.31-10
2.28-10	3.12-10	2.25-10	3.91-11	3.41-12	2.58-15	2.46-26	3.56-10	2.01-10
9.25-10	3.93-10	2.18-10	2.05-11	2.30-14	9.12-19	2.84-25	5.21-09	4.14-09
1.10-09	5.57-10	2.33-10	6.62-11	4.21-12	8.96-18	8.77-22	3.57-10	1.48-10
4.01-09	1.19-09	6.14-09	6.57-12	7.12-13	2.95-16	1.82-22	3.24-10	1.06-10
1.07-09	3.51-10	1.32-10	5.14-12	2.23-13	1.61-16	9.72-27	1.27-10	3.39-11
4.89-10	7.49-10	4.02-10	2.11-10	3.73-12	8.45-16	4.13-25	3.34-10	1.30-10
7.35-10	7.08-10	5.26-10	3.35-11	4.60-12	3.25-17	3.47-24	3.30-09	2.67-09
9.00-10	2.18-09	1.21-10	2.60-11	1.55-13	2.34-17	2.05-27	1.88-09	8.89-10
8.85-10	4.63-10	1.32-10	2.35-10	5.96-13	1.09-17	2.69-26	3.77-09	1.57-09
2.10-09	1.48-09	1.56-09	1.33-10	5.14-12	8.19-16	3.19-22		
6.92-10	3.80-10	1.04-09	6.13-11	2.14-12	4.09-16	2.87-22	3.24-09	1.33-09

PHI 90 TO 135 DEGREES

5.65-10	2.28-11	3.23-10	8.81-11	1.28-15	9.89-14	6.81-25	6.34-10	2.44-10
5.23-10	9.82-10	3.63-11	2.69-11	9.98-13	4.36-18	7.37-26	3.40-10	1.41-10
2.33-09	3.00-10	1.18-10	1.37-11	1.10-12	1.98-17	5.93-25	4.76-10	2.29-10
5.15-10	1.63-10	1.40-10	6.53-12	1.54-12	3.08-16	5.64-28	2.19-10	8.95-11
6.39-10	6.07-10	4.39-09	1.18-11	2.03-12	1.62-17	1.49-21	1.15-10	4.83-11
9.20-10	7.40-10	5.08-10	9.71-12	2.51-12	5.26-17	8.13-28	5.31-10	3.20-10
1.30-09	3.25-10	1.33-10	9.37-11	2.85-13	1.77-14	1.04-25	2.19-10	5.50-11
1.08-09	1.05-09	5.78-10	2.20-11	1.38-12	5.14-16	3.79-25	5.10-10	1.83-10
1.55-09	1.26-09	1.03-10	2.60-11	9.62-13	4.75-18	1.49-24	2.00-09	1.03-09
2.87-09	4.54-09	2.75-10	1.17-11	1.35-12	1.59-16	2.11-27	2.95-09	2.08-09
2.34-09	1.42-09	1.18-09	6.12-11	2.46-12	1.20-14	2.60-22		
4.39-10	3.22-10	7.84-10	2.84-11	9.59-13	8.34-15	2.56-22	1.14-09	2.44-10

PHI 135 TO 180 DEGREES

7.26-10	2.21-10	4.49-11	1.20-10	3.89-14	7.51-18	4.89-27	5.90-09	4.65-09
4.62-10	2.83-10	7.80-10	2.59-11	3.36-13	2.44-17	5.65-27	2.17-10	9.42-11
1.31-09	2.38-10	1.21-10	3.20-11	2.17-13	1.46-15	1.08-20	2.79-10	8.15-11
8.93-10	5.73-10	1.78-10	2.89-11	8.30-13	4.17-17	8.60-23	1.50-09	1.27-09
1.63-09	2.48-10	1.20-10	1.81-11	1.68-11	4.42-17	3.17-26	5.92-10	5.03-10
1.06-09	4.32-10	1.84-10	5.78-12	6.90-13	3.46-16	3.93-28	1.23-10	2.73-11
4.13-09	4.87-10	1.40-10	7.26-12	2.49-13	2.62-17	7.31-25	2.47-10	6.15-11
1.30-09	9.54-10	3.93-10	2.31-11	5.53-13	1.66-17	5.22-25	1.08-09	5.50-10
2.05-09	4.22-10	5.29-11	7.84-11	1.46-13	5.30-17	1.68-25	3.14-10	7.25-11
1.97-09	1.93-09	1.36-10	3.78-12	1.16-13	3.98-17	2.11-25	1.84-09	5.99-10
3.40-09	1.03-09	4.49-10	5.62-11	3.69-12	4.99-16	2.89-21		
9.01-10	2.25-10	1.39-10	1.85-11	3.17-12	4.51-16	2.86-21	1.61-09	5.33-10
							7.47-07	1.07-07

AIR SCATTERING 2.36 02 ENERGY 6.00-01 ANGLE 1.50 01 DIST. 1.98 03
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	1.35-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	1.50-07	1.93-07	0.	0.	0.	0.	0.	0.
6.00 01	0.	1.05-07	5.36-08	0.	0.	0.	0.	0.
8.00 01	0.	0.	8.77-08	0.	0.	0.	0.	0.
9.00 01	0.	0.	4.84-08	5.08-08	0.	0.	0.	0.
1.00 02	0.	0.	0.	1.38-07	0.	0.	0.	0.
1.20 02	0.	0.	0.	1.37-07	2.74-09	0.	0.	0.
1.40 02	0.	0.	0.	0.	1.62-07	0.	0.	0.
1.60 02	0.	0.	0.	0.	1.77-07	0.	0.	0.
1.80 02	0.	0.	0.	0.	1.60-08	0.	0.	0.
	1.07-07	6.15-08	5.13-08	7.76-08	7.57-08	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	8.81-07	4.99-09	0.	0.	2.55-09	8.33-09	1.68-08	8.23-11
4.00 01	9.53-08	1.23-07	3.70-09	9.50-09	0.	4.24-09	9.99-09	1.82-10
6.00 01	0.	6.68-08	3.41-08	3.70-09	2.45-09	8.64-09	2.96-09	1.38-09
8.00 01	0.	0.	5.59-08	0.	5.36-09	3.15-09	5.39-09	1.81-09
9.00 01	0.	0.	3.08-08	4.18-08	1.86-08	1.03-08	7.00-09	7.64-10
1.00 02	0.	0.	0.	8.81-08	6.83-10	1.02-08	8.31-10	1.14-08
1.20 02	0.	0.	0.	8.97-08	5.14-09	5.86-09	7.22-10	2.28-09
1.40 02	0.	0.	0.	0.	1.13-07	1.87-09	1.71-09	2.10-09
1.60 02	0.	0.	0.	2.67-10	1.45-07	3.83-09	1.25-09	1.76-09
1.80 02	0.	0.	0.	5.39-12	2.32-08	2.55-09	1.69-09	2.04-09
	6.97-08	3.94-08	3.33-08	5.45-08	6.43-08	1.14-08	7.67-09	4.84-09
	4.84-09	5.58-09	4.71-09	7.05-09	4.75-09	2.07-09	1.56-09	1.91-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	1.74-09	3.40-09	1.12-09	1.76-09	4.67-09	4.32-09
4.00 01	0.	0.	1.81-09	1.39-09	1.32-09	4.25-10	4.67-09	5.99-10
6.00 01	0.	0.	0.	2.32-10	0.	1.11-08	4.98-09	7.71-10
8.00 01	0.	0.	0.	0.	1.35-10	2.31-09	3.10-09	4.46-09
9.00 01	0.	0.	0.	0.	2.36-14	4.46-09	4.33-09	3.73-09
1.00 02	0.	0.	0.	0.	0.	1.29-09	8.83-10	2.79-09
1.20 02	0.	0.	0.	1.55-12	8.59-09	3.26-09	1.95-09	1.05-09
1.40 02	0.	0.	0.	0.	8.84-09	6.30-09	6.58-10	1.85-09
1.60 02	0.	0.	0.	7.79-11	5.97-09	4.53-09	7.12-10	1.39-09
1.80 02	0.	0.	4.38-11	1.37-11	7.55-09	1.50-09	3.10-09	3.36-09
	0.	0.	4.23-10	5.22-10	6.99-09	8.51-09	5.46-09	4.44-09
	0.	0.	3.32-10	2.88-10	2.65-09	2.36-09	9.91-10	1.14-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	2.38-09	2.04-09	4.96-09	5.10-10
4.00 01	0.	0.	0.	0.	6.10-10	8.56-10	3.88-09	6.14-10
6.00 01	0.	0.	0.	0.	0.	2.50-09	1.18-09	2.71-10
8.00 01	0.	0.	0.	0.	0.	7.47-09	9.16-09	1.12-09
9.00 01	0.	0.	0.	0.	0.	1.02-08	7.80-10	2.59-09
1.00 02	0.	0.	0.	0.	1.12-10	5.43-10	8.27-10	7.81-10
1.20 02	0.	0.	0.	2.35-13	1.50-09	2.01-09	7.74-10	4.09-10
1.40 02	0.	0.	0.	9.08-13	5.04-10	1.51-09	5.16-10	4.84-09
1.60 02	0.	0.	5.36-14	4.25-10	1.11-09	1.12-09	1.86-09	7.05-09
1.80 02	0.	0.	0.	5.88-11	4.10-09	1.94-10	1.22-09	3.02-09
	0.	0.	9.30-15	7.77-11	1.33-09	6.51-09	5.34-09	3.99-09
	0.	0.	9.30-15	7.39-11	4.72-10	2.00-09	1.75-09	1.11-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	3.02-09	3.21-09	3.67-09	5.50-10
4.00 01	0.	0.	0.	0.	0.	1.15-09	1.50-08	7.80-10
6.00 01	0.	0.	0.	0.	3.68-10	2.20-12	2.97-09	7.01-10
8.00 01	0.	0.	0.	0.	9.95-10	6.16-10	3.54-09	1.12-09
9.00 01	0.	0.	0.	0.	0.	2.04-10	4.30-09	4.53-10
1.00 02	0.	0.	0.	0.	2.73-09	2.18-10	1.45-09	8.74-10
1.20 02	0	0.	0.	0.	2.75-10	6.83-09	3.23-10	1.41-09
1.40 02	0.	0.	0.	0.	4.43-09	1.46-09	1.17-09	1.48-09
1.60 02	0.	0.	2.46-12	0.	5.13-10	1.05-09	1.51-09	1.41-09
1.80 02	0.	0.	6.00-11	4.53-10	1.58-09	5.56-09	4.66-10	5.99-10
	0.	0.	4.04-12	2.73-11	2.53-09	3.80-09	6.48-09	2.09-09
	0.	0.	2.61-12	2.73-11	1.14-09	1.46-09	2.07-09	4.29-10

020410326325 341370240145

AIR SCATTERING 2.36 02 ENERGY 6.00-01 ANGLE 1.50 01 DIST. 1.98 03

6.30 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.	2.02-07	
0.	0.	0.	0.	0.	0.	0.	4.18-08	
0.	0.	0.	0.	0.	0.	0.	1.58-08	
0.	0.	0.	0.	0.	0.	0.	8.77-09	
0.	0.	0.	0.	0.	0.	0.	7.38-09	
0.	0.	0.	0.	0.	0.	0.	6.92-09	
0.	0.	0.	0.	0.	0.	0.	6.99-09	
0.	0.	0.	0.	0.	0.	0.	8.11-09	
0.	0.	0.	0.	0.	0.	0.	8.84-09	
0.	0.	0.	0.	0.	0.	0.	8.01-10	
0.	0.	0.	0.	0.	0.	0.		
							3.51-08	

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		
1.76-10	6.15-10	5.49-10	1.47-11	4.66-16	3.29-18	1.57-32	1.34-07	1.01-08
5.54-10	4.14-10	1.48-10	2.79-11	2.08-12	1.29-18	1.27-26	2.79-08	3.55-09
5.70-10	1.99-10	7.15-11	1.38-11	1.38-12	1.95-16	3.32-28	1.08-08	1.76-09
8.66-10	1.37-09	3.93-10	6.21-11	3.32-11	1.59-15	1.18-23	6.18-09	1.08-09
7.99-09	3.03-10	1.72-10	8.54-12	3.31-14	4.73-16	1.00-26	6.80-09	1.59-09
1.57-09	1.01-09	1.30-10	9.78-11	6.04-13	1.19-17	3.95-20	5.04-09	1.16-09
1.27-09	7.52-10	1.98-10	3.57-10	3.33-13	4.78-17	1.81-25	5.02-09	7.51-10
1.21-09	4.78-10	5.57-10	7.56-10	5.42-14	1.13-17	1.89-26	5.84-09	6.12-10
1.93-09	1.00-09	2.43-10	9.26-12	3.77-15	1.56-17	1.42-27	7.52-09	6.29-10
1.92-09	1.23-09	1.42-10	1.72-11	1.53-14	1.15-19	4.02-30	1.38-09	1.75-10
3.39-09	1.46-09	5.22-10	3.68-10	1.19-11	6.77-16	6.86-21		
1.30-09	3.21-10	1.17-10	3.09-10	1.07-11	5.84-16	6.86-21	2.44-08	1.07-09

PHI 45 TO 90 DEGREES

9.22-10	1.84-10	1.06-10	1.90-10	6.28-15	1.42-16	5.64-25	7.02-10	2.45-10
6.85-10	2.74-10	1.48-10	7.61-12	1.55-13	1.16-17	2.47-26	4.99-10	2.13-10
7.10-10	1.49-10	1.78-10	2.23-11	3.14-14	1.35-18	2.86-25	5.28-10	2.31-10
8.15-10	4.36-10	7.88-11	5.92-11	1.08-12	2.55-17	2.63-24	2.80-10	1.07-10
5.20-10	3.63-10	4.32-10	4.08-12	5.56-13	1.46-17	4.08-26	3.58-10	1.25-10
1.15-09	2.88-10	1.37-10	9.10-11	3.92-12	8.06-16	7.50-21	1.49-10	4.07-11
1.74-09	3.52-10	9.77-10	3.90-11	5.84-13	7.60-17	1.08-27	6.55-10	3.71-10
7.74-10	1.01-09	2.09-10	6.41-11	2.16-13	6.72-17	4.02-23	7.16-10	2.15-10
3.57-09	5.05-10	3.55-10	2.88-11	7.27-14	3.01-17	1.33-25	5.67-10	1.40-10
1.21-09	5.94-10	1.60-09	5.86-11	6.43-14	7.68-19	9.50-29	6.35-10	1.53-10
2.39-09	8.60-10	7.37-10	9.29-11	1.43-12	2.10-16	1.31-21		
5.41-10	2.00-10	2.60-10	3.18-11	8.76-13	1.38-16	1.30-21	9.90-10	1.64-10

PHI 90 TO 135 DEGREES

1.33-10	6.01-11	1.52-11	5.75-10	5.76-15	2.82-16	2.09-26	3.47-10	1.26-10
3.89-10	6.50-10	3.49-10	2.59-11	8.76-14	1.02-17	3.26-26	2.03-10	7.24-11
6.14-10	2.05-10	1.76-09	1.27-11	7.63-13	1.36-17	4.05-24	1.48-10	6.49-11
1.30-09	6.83-10	2.21-10	1.16-10	4.62-13	9.13-18	1.71-24	5.57-10	2.13-10
1.09-09	1.28-09	2.33-10	5.02-12	1.42-12	3.70-17	1.15-24	4.19-10	2.45-10
1.37-09	3.84-09	1.97-10	1.57-10	1.29-13	1.98-16	1.36-27	1.31-10	4.32-11
1.58-09	1.10-09	1.97-10	2.18-11	3.73-12	1.13-17	3.91-23	2.11-10	7.37-11
1.39-09	5.58-10	7.09-10	6.18-11	1.82-13	1.85-16	1.97-30	2.24-10	7.01-11
3.87-09	1.67-09	7.86-10	4.57-11	6.11-14	2.05-16	4.26-23	4.09-10	1.11-10
1.33-09	8.01-10	7.02-10	1.70-11	1.79-13	3.41-18	6.17-26	3.53-10	1.06-10
2.73-09	2.13-09	1.11-09	1.41-10	1.93-12	1.55-16	2.20-23		
8.15-10	8.06-10	4.17-10	5.04-11	1.22-12	6.94-17	1.39-23	5.94-10	1.01-10

PHI 135 TO 180 DEGREES

2.32-10	8.57-10	3.45-10	7.73-11	4.23-15	9.10-24	1.28-26	3.85-10	1.44-10
6.72-10	2.85-10	2.92-11	9.30-12	5.73-15	3.67-18	4.11-29	5.17-10	3.16-10
1.10-09	3.10-10	2.84-09	4.14-12	4.59-13	1.77-18	5.90-28	1.75-10	5.01-11
1.36-09	2.41-10	5.30-10	1.38-11	1.57-12	6.99-17	4.37-27	2.32-10	9.69-11
1.20-09	3.41-10	2.52-10	2.09-11	5.20-13	6.23-21	2.96-31	1.74-10	5.16-11
8.93-10	1.76-10	1.97-10	5.95-11	6.69-14	1.97-18	9.28-27	2.26-10	1.40-10
1.90-09	4.44-10	1.25-09	7.35-11	1.79-13	1.82-18	4.75-24	3.12-10	1.33-10
2.59-09	4.28-10	1.87-10	9.43-11	4.30-14	3.88-17	2.95-21	3.89-10	1.90-10
1.35-09	1.19-09	1.47-10	6.64-11	3.07-13	1.18-18	3.58-26	1.72-10	3.68-11
7.99-10	1.52-10	1.09-10	2.43-11	2.42-15	5.54-19	2.12-27	3.19-10	1.32-10
2.82-09	8.26-10	1.52-09	8.79-11	8.62-13	3.54-17	7.86-22		
7.60-10	1.68-10	8.18-10	3.17-11	6.15-13	2.39-17	7.85-22	5.59-10	9.91-11
							4.17-08	1.78-09

AIR SCATTERING 2.37 02 ENERGY 6.00-01 ANGLE 3.00 01 DIST. 1.98 03
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	3.65-07	1.67-07	0.	0.	0.	0.	0.	0.
4.00 01	0.	1.22-07	1.58-08	0.	0.	0.	0.	0.
6.00 01	0.	0.	5.96-08	0.	0.	0.	0.	0.
8.00 01	0.	0.	2.10-08	3.33-08	0.	0.	0.	0.
9.00 01	0.	0.	0.	6.31-08	0.	0.	0.	0.
1.00 02	0.	0.	0.	6.30-08	0.	0.	0.	0.
1.20 02	0.	0.	0.	1.40-08	4.55-08	0.	0.	0.
1.40 02	0.	0.	0.	0.	8.96-08	0.	0.	0.
1.60 02	0.	0.	0.	0.	6.29-09	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	2.20-08	3.12-08	2.54-08	3.73-08	2.91-08	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	2.32-07	1.06-07	6.99-09	6.44-09	0.	5.97-09	6.96-09	3.60-11
4.00 01	0.	7.75-08	1.14-08	6.60-09	4.59-09	1.30-08	3.15-09	1.19-09
6.00 01	0.	0.	4.25-08	0.	2.76-10	1.79-08	3.39-09	1.46-09
8.00 01	0.	0.	1.34-08	2.29-08	4.83-09	6.10-09	2.00-09	9.84-10
9.00 01	0.	0.	0.	4.02-08	5.60-09	2.90-09	1.39-09	1.87-09
1.00 02	0.	0.	0.	4.49-08	1.47-08	2.79-09	6.06-10	2.44-09
1.20 02	0.	0.	0.	9.90-09	3.81-08	7.94-09	6.72-10	5.19-09
1.40 02	0.	0.	0.	2.33-10	8.11-08	2.57-09	1.09-09	1.22-09
1.60 02	0.	0.	3.98-12	1.05-10	9.89-09	1.16-09	1.54-09	7.75-10
1.80 02	0.	0.	0.	2.19-12	9.06-09	8.00-10	7.50-10	4.23-09
	1.40-08	1.99-08	1.81-08	2.71-08	4.17-08	1.39-08	3.69-09	4.07-09
	1.51-09	2.40-09	2.21-09	3.16-09	8.20-09	4.12-09	7.48-10	1.11-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	2.40-09	3.69-09	8.68-09	6.76-11
4.00 01	0.	0.	0.	1.14-09	0.	1.92-10	4.32-09	1.92-09
6.00 01	0.	0.	0.	0.	3.98-10	3.28-09	9.15-09	1.82-09
8.00 01	0.	0.	0.	0.	3.92-11	1.39-09	1.41-09	2.18-09
9.00 01	0.	0.	0.	0.	1.21-10	6.01-10	1.11-09	1.34-09
1.00 02	0.	0.	0.	0.	9.33-09	5.37-10	5.98-10	2.47-09
1.20 02	0.	0.	0.	0.	8.50-09	2.04-09	6.78-10	7.44-10
1.40 02	0.	0.	0.	4.70-12	9.15-09	5.62-10	8.54-10	3.45-10
1.60 02	0.	0.	0.	4.18-15	3.85-09	1.47-10	2.87-09	1.31-08
1.80 02	0.	0.	1.53-12	8.79-11	1.42-09	7.85-09	1.61-09	7.85-10
	0.	0.	9.20-14	2.04-10	7.87-09	3.10-09	5.51-09	4.80-09
	0.	0.	9.20-14	1.98-10	2.96-09	8.90-10	2.23-09	2.01-09

PHI 90 TO 135 DEGREES

2.00 01	0.	5.82-09	0.	0.	0.	0.	3.69-09	2.16-09
4.00 01	0.	0.	1.97-09	0.	0.	3.75-09	1.83-09	5.21-10
6.00 01	0.	0.	0.	0.	0.	7.06-09	1.42-09	4.06-10
8.00 01	0.	0.	0.	0.	5.73-10	4.61-09	1.15-09	1.57-09
9.00 01	0.	0.	0.	0.	1.62-09	1.90-09	1.24-09	6.96-10
1.00 02	0.	0.	0.	0.	5.60-10	3.54-10	9.46-10	2.55-10
1.20 02	0.	0.	0.	0.	2.80-10	1.41-09	1.56-10	1.65-09
1.40 02	0.	0.	0.	5.01-12	7.33-11	4.60-09	8.22-10	1.83-09
1.60 02	0.	0.	0.	0.	6.23-09	4.86-09	1.48-09	7.97-10
1.80 02	0.	0.	0.	1.22-10	9.54-10	9.76-10	3.06-09	7.10-10
	0.	3.51-10	3.43-10	8.70-12	1.81-09	7.01-09	2.38-09	2.21-09
	0.	3.51-10	3.43-10	7.49-12	1.10-09	1.95-09	3.95-10	5.49-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.96-09	3.93-10
4.00 01	0.	0.	0.	0.	0.	1.98-09	3.57-09	5.05-10
6.00 01	0.	0.	0.	0.	0.	6.77-10	1.48-09	1.04-09
8.00 01	0.	0.	0.	0.	0.	6.47-10	1.17-09	2.34-10
9.00 01	0.	0.	0.	0.	0.	3.87-11	2.06-09	4.81-09
1.00 02	0.	0.	0.	0.	0.	2.08-10	1.90-09	3.49-10
1.20 02	0.	0.	0.	1.92-14	8.69-12	1.77-10	6.88-10	7.25-10
1.40 02	0.	0.	0.	0.	6.65-13	2.03-09	1.85-09	3.86-10
1.60 02	0.	0.	0.	2.42-11	1.95-10	2.62-09	2.05-09	1.38-09
1.80 02	0.	0.	0.	4.78-11	1.58-10	2.18-10	5.26-10	8.05-10
	0.	0.	0.	7.09-12	4.63-11	1.84-09	3.31-09	1.99-09
	0.	0.	0.	5.09-12	3.17-11	5.70-10	9.33-10	6.80-10

1067422062 21 2277056741 71

AIR SCATTERING 2.37 02 ENERGY 6.00-01 ANGLE 3.00 01 DIST. 1.98 03

3.80 01	1.15 03	0.	0.	3.81 04	5.00 01	1.20 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.	7.14-08
0.	0.	0.	0.	0.	0.	0.	1.37-08
0.	0.	0.	0.	0.	0.	0.	5.96-09
0.	0.	0.	0.	0.	0.	0.	3.76-09
0.	0.	0.	0.	0.	0.	0.	3.16-09
0.	0.	0.	0.	0.	0.	0.	3.15-09
0.	0.	0.	0.	0.	0.	0.	2.97-09
0.	0.	0.	0.	0.	0.	0.	2.48-09
0.	0.	0.	0.	0.	0.	0.	3.15-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.23-08

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		
4.49-10	6.75-10	5.75-10	5.38-12	4.35-13	4.32-23	1.38-34	4.69-08	4.52-09
1.70-09	4.72-11	1.86-10	2.43-10	3.61-13	2.14-17	4.62-28	9.99-09	1.35-09
3.09-10	2.75-10	2.09-10	2.99-10	1.45-12	1.30-16	1.92-26	4.24-09	2.57-10
1.11-09	3.82-10	8.03-10	1.72-11	2.67-13	3.73-20	1.37-29	3.02-09	4.38-10
6.76-10	2.37-10	3.05-10	6.68-12	1.07-12	2.66-16	1.06-26	2.32-09	4.85-10
8.85-10	2.19-10	6.41-10	3.47-12	6.41-14	2.47-17	5.18-24	3.16-09	5.54-10
1.65-09	7.86-10	1.08-10	1.41-11	6.84-13	3.29-18	3.91-25	2.80-09	3.10-10
5.50-10	2.52-10	3.22-10	1.54-11	1.88-13	2.57-16	7.78-24	4.22-09	1.46-09
1.78-09	4.66-10	6.94-10	1.31-11	3.81-14	1.85-17	8.97-28	6.44-10	7.21-11
4.03-10	2.28-10	1.99-10	4.72-11	3.51-15	6.06-17	1.69-26	5.97-10	2.93-10
2.06-09	7.45-10	8.02-10	1.43-10	1.04-12	1.65-16	3.11-24		
4.28-10	1.50-10	2.24-10	8.68-11	4.40-13	8.32-17	2.11-24	1.00-08	5.96-10

PHI 45 TO 90 DEGREES

2.56-10	4.36-11	1.36-11	2.78-12	6.78-15	4.29-19	1.29-33	4.98-10	2.50-10
2.63-09	2.55-10	6.55-11	2.37-11	2.72-13	1.35-15	5.31-26	2.87-10	9.32-11
2.80-09	7.95-10	1.83-10	7.97-12	2.39-13	3.34-16	3.87-25	4.91-10	2.54-10
9.23-10	1.66-10	1.65-10	1.19-11	1.10-12	1.54-17	3.68-24	1.52-10	4.65-11
1.08-09	4.32-10	2.71-10	2.98-11	9.06-14	4.36-17	3.62-29	1.13-10	3.08-11
1.03-09	1.24-09	3.46-10	7.42-12	3.33-14	2.13-19	3.32-22	5.86-10	3.92-10
5.82-10	7.44-10	8.08-10	6.88-11	5.98-13	2.49-17	3.42-26	5.49-10	2.28-10
3.83-09	3.24-10	6.45-10	8.83-11	3.93-14	1.12-18	9.26-20	5.90-10	4.17-10
3.97-10	2.07-10	4.58-10	1.28-10	1.42-12	9.97-19	3.14-28	5.61-10	2.36-10
2.31-10	6.05-11	1.16-09	3.60-12	7.15-15	3.52-18	6.24-29	3.92-10	1.99-10
3.12-09	9.70-10	8.14-10	8.39-11	9.45-13	3.45-16	5.91-23		
9.60-10	1.97-10	2.49-10	2.61-11	4.43-13	2.40-16	5.77-23	8.39-10	1.74-10

PHI 90 TO 135 DEGREES

1.36-09	2.35-11	3.60-11	7.36-12	2.19-16	2.06-22	3.48-25	7.63-10	5.89-10
8.10-10	1.92-10	3.92-11	4.23-12	3.15-14	5.31-18	5.20-31	3.94-10	2.28-10
7.91-10	1.29-10	7.22-11	2.29-11	1.16-13	3.52-16	1.33-24	2.81-10	1.37-10
2.41-10	1.58-09	8.93-11	2.07-12	1.28-13	6.13-20	7.59-26	2.54-10	9.64-11
1.06-09	1.76-09	7.17-11	2.23-11	7.14-13	1.08-18	5.04-27	2.29-10	9.37-11
3.75-10	4.38-10	8.25-10	8.74-12	6.01-13	3.75-18	5.18-28	9.23-11	3.62-11
4.54-10	4.45-10	3.31-10	3.43-11	3.05-13	5.96-19	7.77-26	1.11-10	2.70-11
5.10-10	6.83-11	6.03-11	2.50-11	1.61-13	6.00-17	1.26-27	2.15-10	1.08-10
8.89-10	2.97-10	2.21-10	7.46-11	1.44-14	2.71-19	1.01-23	5.41-10	3.05-10
1.15-09	4.79-11	6.23-11	1.40-10	3.82-13	3.68-18	1.06-34	2.14-10	7.59-11
1.27-09	1.18-09	3.79-10	5.25-11	4.75-13	1.12-16	2.18-24		
2.89-10	5.04-10	1.37-10	1.57-11	1.81-13	9.42-17	1.77-24	5.28-10	9.73-11

PHI 135 TO 180 DEGREES

4.84-11	4.87-11	7.19-11	5.45-11	5.54-14	4.15-17	4.11-28	6.91-11	4.12-11
1.17-09	5.17-10	4.38-11	1.96-11	5.65-13	1.33-17	5.96-23	2.06-10	7.27-11
5.95-10	1.15-10	2.85-10	2.33-11	6.39-12	3.43-17	3.33-27	1.02-10	3.82-11
1.10-09	2.01-10	6.70-10	6.32-11	6.24-13	8.88-18	3.48-27	9.03-11	2.14-11
1.35-10	4.53-10	1.64-10	5.01-12	7.10-14	2.23-17	1.76-25	1.68-10	7.89-11
4.93-10	1.36-10	7.94-11	1.49-11	1.26-14	4.52-18	1.68-27	8.22-11	4.51-11
3.23-10	3.99-10	1.85-10	2.83-11	9.31-14	3.44-16	3.63-22	5.34-11	1.43-11
8.56-10	1.95-10	1.41-10	1.55-11	5.53-13	4.13-15	3.17-23	1.45-10	5.53-11
1.52-09	2.77-10	6.34-11	1.10-11	8.40-14	1.14-18	5.10-28	2.12-10	6.47-11
3.62-10	2.03-09	3.71-11	7.13-12	4.88-14	4.21-20	2.44-31	7.67-11	2.06-11
1.45-09	6.44-10	4.58-10	5.27-11	2.22-12	1.23-15	1.37-22		
3.38-10	1.53-10	1.48-10	1.61-11	1.16-12	1.07-15	1.27-22	2.37-10	3.77-11
							1.82-08	1.07-09

AIR SCATTERING 2.38 02 ENERGY 6.00-01 ANGLE 6.00 01 DIST. 1.98 03
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.	7.22-08	1.09-07	0.	0.	0.	0.	0.
4.00 01	0.	0.	4.37-08	0.	0.	0.	0.	0.
6.00 01	0.	0.	1.26-09	4.44-08	0.	0.	0.	0.
8.00 01	0.	0.	0.	2.44-08	7.89-09	0.	0.	0.
9.00 01	0.	0.	0.	0.	2.46-08	0.	0.	0.
1.00 02	0.	0.	0.	0.	1.85-08	0.	0.	0.
1.20 02	0.	0.	0.	0.	5.47-09	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.	4.35-09	1.45-08	1.98-08	1.19-08	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.	4.60-08	6.92-08	0.	1.09-09	1.16-08	6.47-09	1.51-09
4.00 01	0.	1.35-09	3.08-08	3.47-09	4.25-09	9.14-09	3.51-09	9.55-10
6.00 01	0.	0.	1.08-09	3.05-08	2.24-09	3.27-09	1.27-09	2.33-09
8.00 01	0.	0.	0.	1.67-08	1.01-08	3.39-09	7.21-10	2.13-09
9.00 01	0.	0.	0.	8.74-10	2.21-08	1.93-09	2.09-09	2.01-09
1.00 02	0.	0.	0.	3.21-09	1.82-08	2.19-09	1.93-09	3.78-09
1.20 02	0.	0.	0.	2.31-11	8.61-09	1.50-09	2.11-09	1.57-09
1.40 02	0.	0.	0.	1.24-11	2.41-09	7.53-10	7.41-09	7.02-10
1.60 02	0.	0.	0.	2.18-14	5.83-10	4.49-10	1.62-09	1.54-09
1.80 02	0.	0.	0.	0.	1.27-10	2.87-10	1.99-09	8.39-10
	0.	3.01-09	9.80-09	1.49-08	1.53-08	5.77-09	5.33-09	3.62-09
	0.	4.66-10	7.64-10	1.18-09	8.88-10	6.81-10	1.57-09	5.37-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	1.10-09	0.	0.	1.93-09	3.81-09	3.73-09
4.00 01	0.	0.	0.	0.	3.13-10	2.85-09	3.43-09	2.92-09
6.00 01	0.	0.	0.	3.61-09	0.	5.83-10	8.02-10	6.48-10
8.00 01	0.	0.	0.	6.84-10	9.46-10	1.96-09	9.48-10	1.84-09
9.00 01	0.	0.	0.	0.	1.88-09	1.15-09	1.21-09	3.15-09
1.00 02	0.	0.	0.	0.	1.38-09	1.58-09	8.46-10	2.62-10
1.20 02	0.	0.	0.	0.	2.02-10	2.00-09	9.42-10	6.13-10
1.40 02	0.	0.	0.	5.02-11	1.09-10	7.60-10	8.12-10	6.71-10
1.60 02	0.	0.	0.	2.27-12	7.05-11	1.93-09	2.77-10	1.42-09
1.80 02	0.	0.	0.	0.	5.35-11	3.27-09	8.65-09	7.03-10
	0.	0.	6.62-11	1.20-09	1.04-09	3.27-09	2.80-09	2.77-09
	0.	0.	6.82-11	9.85-10	3.88-10	6.10-10	5.86-10	5.41-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	1.91-09	1.35-09	1.45-08	8.84-10	1.77-10
4.00 01	0.	0.	0.	0.	3.23-09	2.60-09	1.34-09	8.66-10
6.00 01	0.	0.	0.	0.	1.62-09	2.26-09	1.69-09	4.09-10
8.00 01	0.	0.	0.	0.	0.	9.63-10	1.13-09	9.87-10
9.00 01	0.	0.	0.	0.	1.48-12	5.78-10	4.80-10	2.47-10
1.00 02	0.	0.	0.	0.	3.25-11	7.88-10	4.82-10	2.36-10
1.20 02	0.	0.	0.	0.	2.54-12	5.54-10	2.24-10	2.29-10
1.40 02	0.	0.	0.	0.	2.63-12	8.59-10	9.09-10	1.19-09
1.60 02	0.	0.	0.	0.	2.47-15	1.32-10	3.75-10	2.29-10
1.80 02	0.	0.	0.	0.	4.38-11	3.81-11	2.31-10	7.75-09
	0.	0.	0.	1.15-10	1.08-09	2.92-09	1.67-09	1.58-09
	0.	0.	0.	1.15-10	7.12-10	9.79-10	3.29-10	3.57-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	8.97-09	7.68-09	2.68-10
4.00 01	0.	0.	0.	0.	0.	1.46-09	2.51-09	1.04-09
6.00 01	0.	0.	0.	0.	8.72-10	1.79-10	1.10-09	2.00-10
8.00 01	0.	0.	0.	0.	0.	8.70-10	8.40-10	7.05-10
9.00 01	0.	0.	0.	0.	0.	1.52-09	3.43-09	5.68-10
1.00 02	0.	0.	0.	0.	0.	6.71-10	1.35-09	6.22-10
1.20 02	0.	0.	0.	0.	0.	6.19-11	3.63-09	4.20-09
1.40 02	0.	0.	0.	0.	3.77-11	2.51-10	2.15-10	7.63-10
1.60 02	0.	0.	0.	0.	8.87-12	1.02-09	2.92-10	3.48-10
1.80 02	0.	0.	0.	2.59-14	1.05-09	6.93-10	7.24-11	1.18-09
	0.	0.	0.	1.56-15	3.07-10	1.81-09	3.59-09	2.39-09
	0.	0.	0.	1.56-15	2.40-10	6.22-10	1.10-09	1.00-09

11251303066 22760n224745

AIR SCATTERING 2.38 02 ENERGY 6.00-01 ANGLE 6.00 01 DIST. 1.98 03
5.90 01 1.72 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.	1.81-08
0.	0.	0.	0.	0.	0.	0.	4.37-09
0.	0.	0.	0.	0.	0.	0.	2.35-09
0.	0.	0.	0.	0.	0.	0.	1.61-09
0.	0.	0.	0.	0.	0.	0.	1.23-09
0.	0.	0.	0.	0.	0.	0.	9.26-10
0.	0.	0.	0.	0.	0.	0.	2.74-10
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.	
							3.46-09

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		
3.61-10	5.66-10	1.76-10	5.05-12	2.23-13	7.33-18	1.06-23	1.22-08	1.05-09
5.43-10	2.00-10	6.35-11	6.02-11	3.48-13	1.51-17	2.20-23	4.01-09	4.29-10
1.75-09	5.53-10	2.36-10	6.93-10	1.22-13	1.65-15	2.73-25	1.98-09	1.83-10
1.69-09	6.17-10	3.46-10	4.63-11	1.14-11	7.04-14	4.14-24	1.55-09	1.26-10
2.00-09	1.26-09	9.43-11	1.15-10	4.09-14	3.51-17	1.66-24	1.36-09	1.19-10
5.92-10	4.49-10	8.75-10	1.27-09	1.06-13	1.28-17	4.85-28	1.30-09	1.77-10
2.33-09	8.29-10	9.19-10	1.70-11	3.76-13	1.48-16	8.03-26	6.35-10	7.85-11
9.25-10	4.14-10	1.69-10	3.19-11	6.57-13	2.68-16	3.07-23	4.06-10	1.67-10
7.33-10	4.16-10	2.66-10	1.11-11	1.93-13	4.03-16	4.44-24	1.44-10	3.61-11
4.08-10	2.30-10	5.47-11	1.13-11	4.89-13	1.44-17	1.61-27	1.03-10	3.83-11
2.74-09	1.18-09	7.60-10	4.67-10	4.22-12	2.36-14	1.51-23		
8.08-10	2.33-10	2.37-10	3.55-10	3.72-12	2.07-14	7.97-24	3.27-09	1.36-10

PHI 45 TO 90 DEGREES

2.15-09	7.38-10	1.47-10	1.14-11	8.66-14	1.78-15	1.31-28	4.08-10	1.92-10
1.98-09	9.01-10	1.21-10	5.67-11	1.02-13	4.22-16	1.65-26	3.13-10	8.20-11
9.15-10	1.74-09	2.55-10	1.16-11	9.21-14	2.53-16	1.02-24	2.73-10	1.81-10
1.15-09	7.12-10	7.58-11	3.89-11	7.33-13	1.19-17	2.70-27	2.37-10	5.95-11
8.85-10	1.61-09	1.87-10	1.31-10	1.91-12	1.03-14	7.45-28	2.64-10	7.95-11
3.75-10	1.53-09	2.01-10	7.46-12	1.13-13	2.72-15	1.45-25	1.72-10	6.68-11
3.61-09	3.22-10	6.09-10	2.15-11	1.63-13	3.17-17	4.26-22	1.92-10	6.25-11
5.38-10	1.74-09	3.37-10	4.36-11	1.39-12	1.87-17	9.41-25	1.00-10	2.06-11
1.57-09	7.22-10	4.42-10	1.13-10	6.84-12	3.03-19	4.06-24	1.42-10	5.39-11
2.76-10	7.58-10	1.01-09	2.53-11	6.80-14	2.85-15	4.90-26	3.98-10	2.01-10
2.92-09	2.18-09	6.16-10	9.02-11	2.25-12	2.70-15	1.40-22		
8.40-10	5.36-10	2.11-10	2.45-11	1.52-12	2.24-15	1.39-22	4.43-10	6.47-11

PHI 90 TO 135 DEGREES

8.04-09	9.19-10	1.37-10	2.08-10	2.79-13	1.54-16	1.43-27	8.01-10	4.13-10
2.30-09	8.19-10	1.13-10	1.47-11	9.90-13	1.87-15	1.69-27	3.52-10	1.74-10
1.96-10	1.48-09	2.87-10	1.20-11	1.61-13	1.47-17	2.71-26	2.30-10	9.99-11
1.32-09	4.56-10	2.95-10	9.81-12	1.01-12	5.21-18	1.16-23	1.17-10	2.64-11
3.55-10	6.20-09	3.53-10	3.39-11	3.54-14	3.66-17	1.88-26	1.10-10	5.07-11
8.16-10	5.11-10	4.38-10	1.76-11	2.13-14	1.20-17	1.05-24	7.04-11	2.39-11
6.38-10	7.29-10	4.22-10	3.28-11	1.05-13	1.29-16	3.86-26	5.25-11	1.58-11
6.59-10	4.99-10	5.02-09	1.23-11	4.81-14	1.46-18	9.71-27	1.46-10	5.31-11
7.83-10	7.10-10	2.94-10	7.10-11	1.00-13	1.50-17	4.69-29	4.60-11	1.46-11
1.05-09	2.39-09	3.13-10	3.28-12	6.09-14	2.20-18	2.35-23	2.13-10	9.17-11
2.15-09	2.54-09	1.88-09	5.69-11	6.40-13	3.93-16	5.43-24		
5.82-10	9.49-10	1.19-09	1.59-11	2.62-13	3.26-16	4.23-24	3.17-10	5.24-11

PHI 135 TO 180 DEGREES

3.57-10	2.37-10	1.20-10	3.85-11	1.51-13	3.52-20	8.42-33	5.16-10	2.79-10
4.09-10	7.62-10	2.83-10	1.88-10	6.69-14	9.76-17	5.86-23	1.60-10	4.94-11
7.15-10	2.00-10	1.95-10	6.95-11	4.23-13	5.62-16	4.42-23	1.05-10	4.64-11
3.78-10	4.72-09	1.93-10	1.80-10	7.71-13	9.53-14	3.02-27	1.23-10	4.68-11
6.57-10	2.17-09	1.10-10	1.39-11	2.45-12	6.94-15	4.41-22	1.96-10	8.06-11
2.34-10	1.61-10	3.01-10	5.58-11	2.40-13	3.57-16	1.53-25	8.28-11	2.35-11
8.92-10	1.88-10	1.93-10	4.53-11	1.24-12	1.47-16	1.95-25	2.17-10	1.10-10
9.82-10	4.04-10	3.67-10	2.96-10	1.18-13	1.20-19	1.68-31	6.05-11	2.01-11
1.98-10	3.90-10	9.30-11	1.38-11	6.59-13	5.95-17	3.63-30	5.56-11	1.67-11
1.96-09	7.84-10	1.63-11	1.36-12	3.75-16	1.02-17	0.	1.46-10	8.04-11
1.27-09	2.43-09	4.20-10	2.14-10	1.40-12	3.26-14	9.86-23		
2.62-10	1.66-09	1.08-10	1.05-10	5.76-13	3.11-14	7.80-23	2.81-10	5.10-11
							6.77-09	2.89-10

AIR SCATTERING 2.39 02 ENERGY 6.00-01 ANGLE 9.00 01 DIST. 1.98 03
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.	5.85-08	8.70-08	0.	0.	0.	0.
4.00 01	0.	0.	0.	6.00-08	0.	0.	0.	0.
6.00 01	0.	0.	0.	8.09-09	2.24-08	0.	0.	0.
8.00 01	0.	0.	0.	0.	1.17-08	0.	0.	0.
9.00 01	0.	0.	0.	0.	5.64-10	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.	3.53-09	1.78-08	9.87-09	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.	4.02-08	5.71-08	0.	1.65-08	7.19-09	2.75-09
4.00 01	0.	0.	0.	4.20-08	1.64-09	4.24-09	5.24-10	1.29-09
6.00 01	0.	0.	0.	9.93-09	2.03-08	2.55-09	1.46-09	1.29-09
8.00 01	0.	0.	0.	1.20-09	1.25-08	1.78-09	2.43-09	8.67-10
9.00 01	0.	0.	0.	4.50-11	4.53-09	1.50-09	1.36-09	2.02-09
1.00 02	0.	0.	0.	0.	2.39-09	6.73-10	9.72-09	1.85-09
1.20 02	0.	0.	0.	0.	9.21-10	1.62-10	3.28-10	5.12-10
1.40 02	0.	0.	0.	0.	4.90-10	6.78-10	1.13-09	2.56-10
1.60 02	0.	0.	0.	0.	2.15-12	3.35-10	4.79-09	4.00-10
1.80 02	0.	0.	0.	0.	0.	8.59-13	1.85-11	1.20-11
	0.	0.	2.42-09	1.38-08	1.14-08	3.66-09	4.87-09	1.99-09
	0.	0.	3.62-10	1.27-09	6.66-10	6.19-10	1.80-09	2.97-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0	4.55-09	8.10-10	9.30-10
4.00 01	0.	0.	0.	0.	2.51-09	6.86-09	2.67-09	1.36-09
6.00 01	0.	0.	0.	0.	2.39-10	1.50-09	7.63-10	1.21-09
8.00 01	0.	0.	0.	0.	3.65-10	1.62-09	8.42-10	7.55-10
9.00 01	0.	0.	0.	0.	1.54-09	1.07-09	1.61-10	6.23-10
1.00 02	0.	0.	0.	0.	5.94-14	1.84-09	4.20-10	2.61-10
1.20 02	0.	0.	0.	0.	3.86-11	4.75-10	5.44-10	1.93-10
1.40 02	0.	0.	0.	0.	1.19-10	1.74-10	6.76-10	7.32-10
1.60 02	0.	0.	0.	0.	4.48-14	1.47-09	2.67-10	1.27-10
1.80 02	0.	0.	0.	0.	0.	1.06-10	9.36-11	4.31-09
	0.	0.	0.	0.	9.31-10	3.36-09	1.50-09	1.55-09
	0.	0.	0.	0.	3.36-10	7.19-10	3.90-10	3.20-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	3.91-10	6.84-09	3.89-10
4.00 01	0.	0.	0.	0.	0.	2.60-09	1.77-09	2.13-10
6.00 01	0.	0.	0.	0.	4.94-09	5.53-10	9.16-10	1.67-09
8.00 01	0.	0.	0.	0.	0.	7.15-10	1.82-09	6.95-10
9.00 01	0.	0.	0.	0.	0.	2.74-09	1.54-09	2.48-10
1.00 02	0.	0.	0.	0.	1.85-11	1.36-10	1.60-09	6.55-10
1.20 02	0.	0.	0.	0.	0.	3.37-10	2.25-09	8.71-10
1.40 02	0.	0.	0.	0.	7.74-13	1.93-10	6.20-10	2.33-09
1.60 02	0.	0.	0.	0.	0.	2.46-10	5.14-10	3.68-10
1.80 02	0.	0.	0.	0.	1.47-12	6.56-12	1.52-09	3.52-12
	0.	0.	0.	0.	1.32-09	1.56-09	3.18-09	1.86-09
	0.	0.	0.	0.	1.19-09	4.33-10	7.69-10	4.65-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	5.32-12	3.11-10	2.65-09
4.00 01	0.	0.	0.	0.	0.	1.55-09	1.07-09	2.93-10
6.00 01	0.	0.	0.	0.	0.	0.	2.01-09	1.88-10
8.00 01	0.	0.	0.	0.	0.	3.84-10	2.73-09	1.55-09
9.00 01	0.	0.	0.	0.	0.	1.83-11	1.65-09	1.37-10
1.00 02	0.	0.	0.	0.	0.	6.92-11	1.22-09	2.63-10
1.20 02	0.	0.	0.	0.	3.96-12	1.00-10	1.55-09	3.23-10
1.40 02	0.	0.	0.	0.	0.	5.17-13	8.34-10	1.26-10
1.60 02	0.	0.	0.	0.	0.	8.59-10	2.68-10	1.13-09
1.80 02	0.	0.	0.	0.	1.87-11	2.63-09	8.21-10	3.58-10
	0.	0.	0.	0.	2.42-12	7.51-10	2.95-09	1.19-09
	0.	0.	0.	0.	1.52-12	3.33-10	8.22-10	3.91-10

162116451755 303352627221

AIR SCATTERING 2.39 02 ENERGY 6.00-01 ANGLE 9.00 01 DIST. 1.98 03
4.70 01 1.15 03 0. 0. 3.82 04 5.00 01 1.20 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.	1.02-08
0.	0.	0.	0.	0.	0.	0.	3.00-09
0.	0.	0.	0.	0.	0.	0.	1.52-09
0.	0.	0.	0.	0.	0.	0.	5.86-10
0.	0.	0.	0.	0.	0.	0.	2.82-11
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.	
							1.74-09

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			
1.31-09	4.30-10	6.77-11	7.55-13	2.35-14	4.56-19	8.53-30	7.67-09	8.35-10	
1.58-09	2.93-10	1.34-10	8.82-12	6.47-14	7.36-19	1.12-28	2.39-09	2.59-10	
1.69-08	2.36-10	5.07-10	1.54-10	1.05-12	9.99-16	1.14-24	2.00-09	3.43-10	
1.90-09	7.39-10	9.44-10	1.41-10	2.15-13	4.98-17	3.37-33	8.86-10	8.60-11	
2.12-09	2.78-09	3.98-09	3.96-11	1.32-12	8.33-18	1.10-29	4.66-10	7.87-11	
4.16-10	5.89-09	2.79-10	1.01-11	1.69-13	1.31-17	5.42-26	5.38-10	2.66-10	
5.14-10	5.79-10	3.47-10	3.30-11	1.04-12	2.31-16	4.93-26	9.08-11	1.52-11	
2.75-10	1.76-10	1.17-10	2.88-11	1.63-13	5.75-18	2.80-22	9.26-11	2.98-11	
1.21-09	4.17-10	2.05-10	1.21-11	8.91-14	3.15-16	1.41-26	1.92-10	1.34-10	
1.66-09	4.05-10	2.84-10	4.42-12	4.01-15	5.99-18	9.29-32	4.10-11	3.28-11	
6.46-09	2.22-09	1.41-09	1.18-10	1.02-12	4.18-16	7.47-23			
4.01-09	1.10-09	5.19-10	5.47-11	3.91-13	2.76-16	7.43-23	1.96-09	1.39-10	

PHI 45 TO 90 DEGREES

2.23-10	1.87-10	7.17-09	1.25-11	1.02-13	2.14-19	2.47-23	2.58-10	8.91-11	
1.13-09	2.87-08	1.72-10	7.64-11	1.06-12	1.66-17	1.22-25	7.51-10	3.21-10	
2.03-09	1.05-10	1.30-10	1.40-11	1.24-12	7.83-19	1.04-26	1.47-10	3.80-11	
9.04-10	1.56-09	1.23-10	1.69-11	2.54-12	3.67-17	1.54-23	1.42-10	2.99-11	
8.22-10	2.25-10	4.38-10	1.14-10	2.19-14	6.74-18	2.22-26	1.50-10	5.20-11	
1.83-10	9.06-09	5.72-11	4.31-11	1.92-12	3.01-19	8.28-25	1.68-10	9.31-11	
3.24-10	8.52-10	5.59-10	3.12-11	1.61-14	1.14-15	1.72-26	5.71-11	1.09-11	
6.66-10	6.64-10	4.78-11	5.91-12	5.89-15	5.19-17	5.84-25	6.66-11	1.72-11	
2.55-09	3.33-10	8.55-11	1.00-11	5.94-14	2.18-15	1.14-24	1.10-10	5.29-11	
1.39-09	1.59-11	1.09-10	8.27-12	1.18-14	2.97-22	1.03-18	1.21-10	6.95-11	
2.03-09	7.65-09	8.39-10	6.45-11	1.70-12	7.79-16	6.24-20			
5.43-10	5.25-09	3.92-10	2.02-11	8.70-13	5.36-16	6.23-20	3.49-10	6.40-11	

PHI 90 TO 135 DEGREES

2.86-09	1.77-10	5.09-10	1.96-11	4.32-14	1.11-16	1.22-23	2.89-10	1.87-10	
8.83-10	1.84-09	2.50-10	9.32-11	1.06-14	2.04-17	2.69-25	1.74-10	4.77-11	
3.94-10	3.99-10	1.75-10	1.17-11	2.47-12	1.53-18	2.62-27	3.38-10	2.26-10	
1.52-09	2.49-10	4.30-10	1.30-10	1.64-14	7.28-21	8.19-26	1.28-10	4.49-11	
1.03-09	8.65-10	3.71-10	1.09-11	3.30-13	2.94-16	6.46-28	1.66-10	6.97-11	
1.36-09	1.23-09	2.27-11	3.51-11	2.14-11	6.74-18	5.82-27	1.06-10	4.83-11	
1.00-09	1.53-10	7.24-11	5.15-12	5.97-13	2.24-18	1.14-26	1.17-10	4.65-11	
3.54-10	1.80-10	2.54-09	3.62-11	4.59-13	1.10-18	1.67-29	1.06-10	3.58-11	
5.70-10	1.48-09	2.42-10	8.42-12	5.57-14	4.38-18	5.79-22	6.08-11	2.00-11	
1.61-10	2.24-11	4.72-10	7.83-12	2.38-16	8.00-14	5.74-18	5.41-11	4.36-11	
1.89-09	1.24-09	1.10-09	8.42-11	4.77-12	4.89-15	3.46-19			
5.45-10	3.83-10	6.29-10	3.09-11	3.56-12	4.83-15	3.46-19	3.07-10	6.90-11	

PHI 135 TO 180 DEGREES

4.90-10	2.24-10	7.49-11	1.71-11	1.61-14	1.15-15	3.55-25	7.54-11	3.96-11	
4.40-10	3.38-11	5.57-11	6.37-12	6.02-14	1.23-18	3.24-27	9.42-11	4.67-11	
4.60-10	1.11-09	2.87-10	1.03-11	7.09-13	3.59-18	1.50-25	8.75-11	4.41-11	
1.67-09	4.67-10	2.24-10	1.51-11	9.27-14	2.01-20	3.75-32	1.65-10	6.47-11	
5.13-09	6.76-10	5.20-10	2.60-11	6.91-13	2.23-16	4.31-24	1.68-10	1.01-10	
2.15-08	9.64-11	2.83-10	2.74-11	2.60-12	6.07-17	4.28-25	4.77-10	4.26-10	
9.70-10	1.35-10	4.83-11	8.15-11	2.53-12	6.05-17	1.38-24	7.80-11	3.73-11	
8.80-10	3.89-10	3.90-10	2.12-10	3.20-13	7.99-14	1.21-23	5.44-11	2.34-11	
8.67-11	5.41-10	9.35-11	4.12-11	6.94-13	1.27-17	1.35-22	6.48-11	2.90-11	
7.35-10	3.78-11	6.71-10	6.96-11	3.60-16	1.55-14	6.92-32	1.34-10	7.96-11	
6.00-09	8.46-10	4.65-10	1.13-10	2.91-12	2.23-14	2.81-23			
4.72-09	2.32-10	1.76-10	6.49-11	1.46-12	2.22-14	2.36-23	2.69-10	1.02-10	
							4.54-09	3.80-10	

AIR SCATTERING. 2.40 02 ENERGY 6.00-01 ANGLE 1.35 02 DIST. 1.98 03
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.	2.48-07	0.	0.	0.
4.00 01	0.	0.	0.	0.	3.83-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	6.89-14	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.	2.16-08	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.	0.	1.90-09	1.71-07	4.58-09	2.71-09	6.13-09
4.00 01	0.	0.	0.	0.	3.98-08	2.32-09	2.44-09	2.48-09
6.00 01	0.	0.	0.	3.28-11	2.34-09	5.50-10	1.22-09	1.37-09
8.00 01	0.	0.	0.	0.	1.97-09	2.97-09	1.55-09	1.42-09
9.00 01	0.	0.	0.	0.	6.92-10	3.59-10	8.97-11	9.76-10
1.00 02	0.	0.	0.	0.	5.97-10	7.54-10	1.99-09	1.16-09
1.20 02	0.	0.	0.	0.	0.	4.04-10	3.90-10	2.96-10
1.40 02	0.	0.	0.	0.	2.12-11	4.62-10	9.75-10	2.14-09
1.60 02	0.	0.	0.	0.	0.	2.53-12	1.25-09	1.47-09
1.80 02	0.	0.	0.	0.	0.	3.59-12	8.83-12	7.33-11
	0.	0.	0.	1.23-10	1.87-08	2.24-09	2.38-09	2.92-09
	0.	0.	0.	1.15-10	1.19-09	8.70-10	5.12-10	9.26-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	2.33-08	3.08-09	2.69-09	2.01-09
4.00 01	0.	0.	0.	0.	3.18-09	2.86-09	3.34-10	2.79-09
6.00 01	0.	0.	0.	0.	1.59-09	1.72-09	4.11-10	5.67-10
8.00 01	0.	0.	0.	2.50-13	2.06-10	4.48-10	4.02-10	1.25-09
9.00 01	0.	0.	0.	0.	0.	6.64-10	1.72-10	7.53-10
1.00 02	0.	0.	0.	0.	0.	3.01-10	5.79-09	2.66-10
1.20 02	0.	0.	0.	0.	6.27-11	2.74-10	5.88-10	2.27-10
1.40 02	0.	0.	0.	0.	0.	8.71-11	1.91-09	5.96-10
1.60 02	0.	0.	0.	0.	0.	1.76-12	4.28-10	4.75-10
1.80 02	0.	0.	0.	0.	0.	0.	1.92-10	3.47-11
	0.	0.	0.	8.17-14	2.47-09	1.57-09	2.28-09	1.66-09
	0.	0.	0.	8.16-14	1.06-09	3.03-10	1.18-09	4.30-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	5.03-10	4.33-09	1.35-09	9.43-10
4.00 01	0.	0.	0.	0.	1.20-11	1.78-09	8.46-10	9.21-10
6.00 01	0.	0.	0.	0.	0.	1.39-09	7.06-10	2.78-10
8.00 01	0.	0.	0.	0.	8.05-11	8.13-10	6.20-10	1.80-09
9.00 01	0.	0.	0.	6.16-12	8.32-11	2.65-09	8.39-10	1.42-09
1.00 02	0.	0.	0.	0.	0.	1.21-11	1.04-09	2.82-10
1.20 02	0.	0.	0.	0.	0.	6.24-11	1.07-09	3.55-10
1.40 02	0.	0.	0.	0.	0.	0.	2.60-10	3.76-10
1.60 02	0.	0.	0.	0.	0.	0.	4.00-10	1.02-09
1.80 02	0.	0.	0.	0.	0.	1.47-12	5.68-13	5.31-10
	0.	0.	0.	1.07-12	6.97-11	1.69-09	1.43-09	1.60-09
	0.	0.	0.	1.07-12	3.29-11	5.26-10	4.10-10	5.24-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	2.81-10	1.24-09	2.32-09	2.70-10
4.00 01	0.	0.	0.	0.	0.	2.28-10	3.74-10	4.62-10
6.00 01	0.	0.	0.	0.	3.39-13	4.04-10	1.06-09	3.05-10
8.00 01	0.	0.	0.	0.	0.	1.26-10	8.71-10	8.05-10
9.00 01	0.	0.	0.	0.	4.21-11	1.77-11	1.69-09	1.37-10
1.00 02	0.	0.	0.	0.	0.	5.49-12	1.69-09	1.04-08
1.20 02	0.	0.	0.	0.	0.	4.90-11	5.64-10	1.21-09
1.40 02	0.	0.	0.	0.	0.	1.63-10	2.26-10	2.57-10
1.60 02	0.	0.	0.	0.	0.	6.07-09	3.08-10	2.50-11
1.80 02	0.	0.	0.	0.	0.	5.11-10	7.68-10	1.66-11
	0.	0.	0.	0.	2.43-11	1.41-09	1.70-09	2.86-09
	0.	0.	0.	0.	1.84-11	1.06-09	4.45-10	1.72-09

503352627221 267005604451

AIR SCATTERING 2.40 02 ENERGY 6.00-01 ANGLE 1.35 02 DIST. 1.98 03
3.80 01 1.16 03 0. 0. 3.76 04 5.00 01 1.20 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.	1.24-08
0.	0.	0.	0.	0.	0.	0.	1.91-09
0.	0.	0.	0.	0.	0.	0.	3.45-12
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
							1.08-09

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		
9.04-09	1.26-10	1.63-10	1.37-10	3.81-14	3.96-19	4.21-27	9.17-09	7.00-10
4.76-10	5.76-10	9.98-11	2.70-11	6.47-13	1.18-17	1.94-25	2.20-09	2.29-10
5.25-10	1.90-10	4.16-10	2.73-10	3.22-13	6.00-17	2.41-25	2.17-10	3.80-11
6.49-10	1.40-08	2.60-10	2.03-11	1.37-13	3.20-18	7.38-24	4.19-10	1.57-10
3.81-09	5.98-10	1.18-10	3.18-11	1.12-14	7.38-19	4.68-26	1.51-10	6.86-11
3.99-10	4.51-10	2.54-10	4.60-11	1.01-13	3.52-17	7.28-27	1.51-10	5.78-11
3.94-10	5.85-10	5.02-10	5.74-11	3.03-13	8.45-16	1.10-27	4.89-11	1.16-11
2.19-10	1.56-10	1.13-10	1.53-10	8.73-13	2.88-18	4.86-26	9.51-11	4.53-11
8.23-10	6.22-10	3.85-10	2.60-11	5.50-13	3.67-19	5.01-26	9.37-11	3.86-11
6.46-11	3.18-10	8.92-10	7.70-13	1.46-14	4.15-18	1.23-32	1.52-11	9.10-12
2.04-09	5.28-09	6.02-10	1.70-10	6.92-13	3.02-16	2.54-24		
1.02-09	4.05-09	1.48-10	6.56-11	2.99-13	2.74-16	2.41-24	1.24-09	9.44-11

PHI 45 TO 90 DEGREES

7.97-10	4.73-10	5.78-10	3.53-12	2.89-12	1.04-20	1.39-27	1.40-09	7.97-10
4.57-10	2.23-10	2.74-10	2.37-10	1.87-12	2.20-17	1.18-25	3.26-10	1.40-10
1.59-09	5.05-10	2.46-10	5.21-10	6.42-14	1.57-18	2.87-30	1.98-10	6.08-11
8.16-10	8.02-10	5.83-11	3.09-11	1.31-12	5.62-19	8.51-28	8.61-11	2.14-11
8.89-10	2.35-10	2.10-10	1.37-11	1.03-12	2.66-22	1.44-27	6.20-11	1.85-11
7.83-10	4.44-10	4.13-10	3.21-12	7.19-14	1.74-19	1.62-30	2.13-10	1.30-10
7.50-10	1.62-09	2.55-10	1.11-11	3.99-13	8.29-17	1.24-24	6.74-11	2.34-11
2.17-10	6.28-10	8.58-10	2.26-12	9.72-12	1.09-18	1.91-28	9.12-11	5.13-11
1.03-09	1.36-10	2.05-10	1.36-10	3.21-13	2.98-15	6.71-28	4.73-11	1.89-11
1.40-10	6.41-12	1.85-11	1.79-09	1.42-15	2.61-14	3.80-32	2.20-11	1.33-11
1.60-09	1.30-09	6.23-10	3.29-10	3.91-12	2.12-15	4.26-25		
3.19-10	4.81-10	2.16-10	2.04-10	2.55-12	2.09-15	3.05-25	3.26-10	6.79-11

PHI 90 TO 135 DEGREES

6.78-10	5.27-10	6.67-10	4.86-10	1.81-13	2.38-17	1.88-25	2.43-10	7.43-11
1.38-09	2.49-10	1.26-10	9.15-12	2.36-13	5.97-19	1.31-28	1.29-10	3.45-11
4.73-10	1.25-09	2.36-10	1.13-11	1.33-14	7.66-19	3.30-27	9.29-11	2.58-11
2.65-10	7.13-10	1.40-10	2.67-11	9.50-14	2.59-18	5.33-27	9.71-11	3.01-11
4.31-10	1.58-10	1.03-10	3.37-12	2.89-14	2.94-19	3.41-26	1.48-10	1.03-10
2.01-10	1.70-10	1.38-09	5.83-12	4.42-14	1.34-17	1.33-27	5.67-11	3.77-11
4.80-10	7.15-10	1.83-09	8.57-12	9.06-13	1.33-16	3.98-28	7.62-11	3.23-11
8.81-09	1.68-10	2.67-10	1.74-10	1.63-13	7.75-18	4.87-26	1.97-10	1.17-10
5.80-10	1.82-10	5.18-10	5.11-11	1.73-13	6.70-19	1.79-26	4.54-11	2.26-11
6.84-10	1.54-09	2.01-11	2.38-12	2.65-12	4.82-16	1.94-25	3.97-11	3.03-11
3.19-09	1.10-09	1.19-09	1.02-10	6.28-13	7.97-17	4.80-26		
1.57-09	3.07-10	6.21-10	4.63-11	2.96-13	5.24-17	2.22-26	2.17-10	4.27-11

PHI 135 TO 180 DEGREES

3.82-10	8.15-11	6.38-10	9.25-11	4.96-13	3.38-16	3.43-29	1.42-10	4.97-11
2.10-10	2.56-10	1.91-10	5.86-12	4.20-10	2.56-18	1.16-27	3.81-11	1.05-11
4.43-10	1.41-10	7.06-10	7.19-11	4.50-13	2.72-16	1.17-20	6.77-11	1.99-11
4.91-10	2.27-09	5.31-11	5.08-11	5.37-13	2.08-17	4.22-22	7.94-11	2.27-11
1.03-09	1.25-10	8.55-10	4.43-12	2.78-14	1.05-18	1.51-26	8.63-11	4.31-11
5.97-10	1.19-09	1.92-10	2.40-12	5.65-13	8.12-20	4.72-26	2.84-10	1.99-10
2.33-09	1.91-09	5.79-10	1.12-11	4.20-13	8.72-18	7.36-27	1.14-10	4.55-11
3.01-09	1.73-10	7.39-11	7.59-10	1.14-11	1.72-16	7.07-25	9.48-11	4.42-11
4.25-11	3.17-10	8.09-11	4.15-11	2.06-12	2.06-15	7.37-29	1.97-10	1.82-10
6.23-11	7.85-11	3.89-12	2.66-11	4.41-13	5.48-17	3.16-28	4.10-11	2.52-11
2.19-09	1.78-09	6.81-10	2.58-10	7.69-11	5.10-16	3.26-21		
8.86-10	6.00-10	2.39-10	1.63-10	7.29-11	3.72-16	3.25-21	2.22-10	6.09-11
							3.15-09	2.96-10

AIR SCATTERING 2.41 02 ENERGY 6.00-01 ANGLE 1.80 02 DIST. 1.98 03
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.	3.15-07	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.	1.90-08	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.	0.	0.	2.16-07	3.06-09	1.32-09	2.47-09
4.00 01	0.	0.	0.	0.	7.00-09	1.33-09	7.10-10	2.47-09
6.00 01	0.	0.	0.	0.	1.14-10	6.67-10	7.89-10	1.15-09
8.00 01	0.	0.	0.	0.	6.05-13	1.06-09	3.31-10	8.09-10
9.00 01	0.	0.	0.	0.	0.	9.55-10	3.90-10	2.07-10
1.00 02	0.	0.	0.	0.	0.	3.57-12	1.13-10	5.65-09
1.20 02	0.	0.	0.	0.	0.	8.50-13	3.40-09	9.81-11
1.40 02	0.	0.	0.	0.	0.	1.75-12	6.32-10	1.96-10
1.60 02	0.	0.	0.	0.	0.	0.	5.73-10	2.78-10
1.80 02	0.	0.	0.	0.	0.	4.70-10	2.46-10	2.83-10
	0.	0.	0.	0.	1.43-08	1.13-09	2.00-09	2.32-09
	0.	0.	0.	0.	1.14-09	2.43-10	7.21-10	1.05-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	3.51-14	3.64-08	2.17-09	1.33-09	3.87-09
4.00 01	0.	0.	0.	3.49-12	3.87-09	1.39-09	1.67-09	1.88-09
6.00 01	0.	0.	0.	0.	6.09-10	1.45-09	4.36-10	1.03-09
8.00 01	0.	0.	0.	0.	3.74-11	3.47-09	2.56-09	4.72-10
9.00 01	0.	0.	0.	0.	0.	1.16-09	6.40-11	1.44-10
1.00 02	0.	0.	0.	0.	0.	2.63-11	5.96-10	2.28-10
1.20 02	0.	0.	0.	0.	0.	9.39-13	8.60-10	1.18-10
1.40 02	0.	0.	0.	0.	0.	1.94-13	3.15-11	3.19-10
1.60 02	0.	0.	0.	0.	0.	0.	2.20-10	2.11-10
1.80 02	0.	0.	0.	0.	0.	7.68-09	9.65-11	3.53-11
	0.	0.	0.	6.08-13	3.04-09	2.56-09	1.77-09	1.21-09
	0.	0.	0.	6.06-13	1.10-09	1.03-09	4.44-10	2.71-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	6.41-13	1.47-08	1.45-09	9.37-10	4.50-10
4.00 01	0.	0.	0.	0.	2.27-09	2.28-09	1.16-09	2.25-09
6.00 01	0.	0.	0.	0.	2.33-10	7.43-10	6.03-10	4.22-09
8.00 01	0.	0.	0.	0.	0.	1.27-09	2.49-10	1.14-09
9.00 01	0.	0.	0.	0.	0.	4.98-10	5.02-10	2.51-09
1.00 02	0.	0.	0.	0.	0.	1.82-10	1.17-09	3.33-10
1.20 02	0.	0.	0.	0.	0.	4.66-10	7.22-10	1.52-09
1.40 02	0.	0.	0.	0.	0.	0.	6.96-10	5.83-10
1.60 02	0.	0.	0.	0.	0.	2.80-11	9.14-10	2.51-11
1.80 02	0.	0.	0.	0.	0.	0.	3.18-11	6.06-12
	0.	0.	0.	3.87-14	1.34-09	1.37-09	1.37-09	3.06-09
	0.	0.	0.	3.87-14	3.02-10	3.94-10	3.60-10	1.13-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	1.40-08	2.13-09	3.72-09	1.53-09
4.00 01	0.	0.	0.	0.	1.51-09	1.34-09	9.19-10	7.82-10
6.00 01	0.	0.	0.	0.	6.14-10	1.48-09	4.26-10	1.91-09
8.00 01	0.	0.	0.	0.	2.35-11	4.22-10	2.35-10	6.76-10
9.00 01	0.	0.	0.	0.	0.	1.26-09	8.18-10	2.64-10
1.00 02	0.	0.	0.	0.	4.40-12	3.49-10	4.27-09	4.29-11
1.20 02	0.	0.	0.	0.	0.	1.66-10	4.81-09	2.38-10
1.40 02	0.	0.	0.	0.	0.	8.00-11	1.11-09	1.10-10
1.60 02	0.	0.	0.	0.	0.	2.05-12	1.79-09	3.88-10
1.80 02	0.	0.	0.	0.	0.	0.	8.14-12	3.46-11
	0.	0.	0.	0.	1.28-09	1.25-09	3.64-09	1.19-09
	0.	0.	0.	0.	2.27-10	2.16-10	1.64-09	3.16-10

267005604451 027500773435

AIR SCATTERING 2.41 02 ENERGY 6.00-01 ANGLE 1.80 02 DIST. 1.98 03

4.70 01	1.14 03	0.	0.	3.74 04	5.00 01	1.20 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.	1.58-08
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.	
							9.51-10

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		
5.96-10	1.21-09	2.03-11	9.22-12	2.82-14	3.06-18	4.89-24	1.10-08	5.87-10
5.25-10	1.84-10	9.23-11	7.18-11	1.89-14	2.92-18	4.59-24	4.74-10	2.45-10
2.60-10	1.35-09	1.80-10	2.19-11	5.27-14	3.54-17	1.67-22	9.31-11	2.02-11
3.61-10	2.46-10	1.04-10	3.93-11	2.24-13	1.83-17	3.15-26	6.88-11	2.03-11
1.41-10	2.23-10	4.84-10	1.12-11	1.66-13	1.55-17	1.64-23	5.44-11	2.64-11
8.13-11	8.67-10	3.65-10	1.50-11	1.76-14	4.50-18	9.35-26	1.31-10	1.11-10
3.30-10	1.18-10	4.83-11	1.49-11	1.03-11	1.06-19	5.19-25	1.13-10	6.37-11
1.68-10	2.05-08	2.06-10	3.84-11	6.52-13	3.36-17	2.33-23	2.33-10	2.04-10
6.17-10	2.06-10	3.88-11	4.45-12	9.21-15	1.07-17	1.06-28	3.76-11	1.30-11
7.81-12	2.28-11	2.17-11	1.16-12	5.57-15	4.55-21	6.51-29	2.77-11	2.18-11
6.12-10	6.26-09	3.25-10	5.22-11	3.65-12	1.08-16	5.49-23		
1.19-10	5.43-09	1.23-10	1.61-11	3.29-12	7.64-17	4.50-23	9.32-10	9.00-11

PHI 45 TO 90 DEGREES

5.79-10	5.40-10	3.95-10	5.61-12	6.27-14	1.97-18	6.07-30	2.02-09	8.90-10
6.63-10	5.83-10	1.90-10	1.82-10	1.50-13	1.25-17	2.10-28	3.45-10	8.15-11
5.06-10	1.28-10	2.01-10	4.02-10	4.81-13	1.38-16	4.79-26	1.24-10	3.66-11
3.50-10	1.14-09	5.04-11	2.84-11	3.77-13	8.38-16	2.65-23	2.11-10	8.99-11
1.15-09	3.63-11	1.08-11	2.59-11	5.68-14	8.67-17	4.93-26	6.31-11	3.07-11
3.24-10	2.24-10	2.86-10	2.27-11	6.59-13	6.55-17	7.70-27	3.50-11	1.34-11
5.97-10	2.08-10	1.45-10	2.27-11	1.26-14	3.81-17	9.01-24	4.38-11	1.23-11
1.11-09	2.39-09	1.84-10	1.66-11	2.47-13	3.54-17	7.27-27	5.54-11	2.63-11
2.09-09	6.39-11	2.65-11	5.84-12	2.75-14	1.11-18	3.97-29	6.56-11	4.26-11
3.83-09	4.64-14	8.37-12	1.56-12	2.27-15	1.91-21	7.33-30	3.11-10	2.40-10
1.84-09	1.30-09	2.80-10	1.70-10	4.80-13	3.57-16	1.16-23		
4.96-10	5.38-10	8.35-11	9.15-11	1.96-13	2.20-16	9.09-24	3.60-10	6.75-11

PHI 90 TO 135 DEGREES

3.72-10	3.78-10	1.01-09	1.79-09	1.68-14	3.69-20	4.00-27	8.47-10	1.94-10
7.49-10	1.21-09	9.92-10	5.13-11	2.06-13	1.14-18	9.92-26	2.99-10	7.51-11
4.79-10	8.13-10	8.55-10	4.95-11	1.47-13	1.26-17	1.55-24	1.63-10	7.70-11
2.91-10	2.73-10	6.49-10	5.55-11	2.90-12	5.91-18	1.33-24	8.38-11	3.57-11
4.87-10	2.39-10	9.64-11	3.63-11	2.40-12	4.89-17	3.90-23	9.36-11	3.32-11
1.92-10	3.38-10	1.24-10	2.16-12	9.20-14	9.44-18	2.81-21	5.56-11	2.20-11
8.19-10	3.05-10	1.94-10	1.25-11	1.73-13	2.01-16	1.56-28	8.75-11	3.27-11
7.31-10	3.54-10	1.03-11	4.65-11	1.55-13	7.13-16	2.06-23	5.11-11	2.01-11
7.56-09	1.81-10	2.23-11	1.21-11	1.18-14	9.39-18	1.04-26	1.82-10	1.53-10
2.82-10	3.05-10	3.27-10	1.59-12	6.64-17	1.22-19	4.28-29	1.30-11	6.40-12
2.28-09	8.82-10	8.00-10	1.73-10	1.55-12	2.73-16	5.01-22		
1.33-09	2.17-10	2.70-10	1.09-10	1.01-12	2.26-16	4.95-22	2.74-10	4.46-11

PHI 135 TO 180 DEGREES

1.82-09	9.84-11	1.23-10	3.78-12	4.68-13	3.07-20	1.28-31	9.45-10	1.68-10
1.35-09	3.25-09	3.04-09	1.12-11	4.30-14	4.49-16	1.19-26	2.49-10	5.93-11
9.94-10	5.33-09	8.39-10	9.22-12	7.28-13	3.88-19	4.92-26	2.08-10	6.30-11
3.13-09	3.66-09	1.88-10	1.35-11	7.82-14	5.21-18	1.67-24	1.35-10	6.26-11
8.24-11	1.16-10	1.98-10	8.84-12	6.50-14	1.45-17	1.32-24	7.24-11	2.45-11
3.58-10	2.45-10	4.41-11	3.26-11	2.39-13	8.16-18	1.58-25	1.50-10	7.85-11
2.29-10	1.39-10	1.60-10	1.13-11	2.60-13	7.05-19	1.04-25	1.62-10	1.38-10
2.39-10	1.65-10	3.87-10	5.01-12	1.20-13	4.07-17	7.81-29	4.84-11	2.89-11
4.26-10	9.67-10	8.38-11	1.19-11	1.09-11	7.30-20	2.75-25	8.08-11	5.14-11
1.51-10	2.06-10	1.63-09	1.59-11	5.55-17	1.45-23	6.48-37	2.25-11	1.22-11
1.93-09	3.51-09	1.13-09	2.43-11	2.32-12	9.48-17	8.97-25		
8.88-10	2.41-09	4.10-10	5.48-12	1.89-12	7.86-17	5.60-25	3.19-10	6.26-11
							2.96-09	2.52-10

d_o, Source-Detector Separation Distance = 40 ft

AIR SCATTERING 3.00 02 ENERGY 1.20 01 ANGLE 1.00 DIST. 1.22 03
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	6.70-07	5.09-07	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	1.53-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	2.95-07	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.	3.13-07
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.34-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	4.20-07
	4.04-08	3.07-08	2.65-08	0.	0.	9.62-08	0.	1.68-07

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	4.26-07	3.24-07	0.	0.	0.	0.	0.	0.
4.00 01	0.	0.	9.73-08	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	1.88-07	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.	1.99-07
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.49-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.67-07
	2.57-08	1.96-08	1.89-08	0.	0.	6.12-08	0.	1.07-07
	6.59-09	1.39-08	1.89-08	0.	0.	6.12-08	0.	6.82-08

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.	1.56-12
1.60 02	0.	0.	0.	0.	0.	0.	6.27-16	6.32-13
1.80 02	0.	0.	0.	0.	0.	0.	7.65-14	1.97-12
	0.	0.	0.	0.	0.	0.	4.72-15	6.43-13
	0.	0.	0.	0.	0.	0.	3.34-15	4.33-13

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.	8.11-12
1.40 02	0.	0.	0.	0.	0.	7.58-13	0.	1.94-11
1.60 02	0.	0.	0.	0.	0.	0.	1.28-12	7.47-12
1.80 02	0.	0.	0.	0.	0.	2.14-13	1.81-13	5.68-12
	0.	0.	0.	0.	0.	2.15-13	2.34-13	9.45-12
	0.	0.	0.	0.	0.	2.02-13	1.87-13	5.11-12

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.	6.91-15	7.72-12
1.60 02	0.	0.	0.	0.	0.	0.	8.67-12	2.07-12
1.80 02	0.	0.	0.	0.	0.	0.	1.24-12	2.06-11
	0.	0.	0.	0.	0.	0.	1.58-12	3.66-12
	0.	0.	0.	0.	0.	0.	1.51-12	1.61-12

165416462375 153661316641

AIR SCATTERING 3.00 02 ENERGY 1.20 01 ANGLE 1.00 DIST. 1.22 03
2.40 01 1.76 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.	4.62-06
0.	0.	0.	0.	0.	0.	0.	2.68-07
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.30-07
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	4.70-08
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	3.51-08
0.	0.	0.	0.	0.	0.	0.	6.30-08
0.	0.	0.	0.	0.	0.	0.	3.93-07

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.	1.26-10	7.30-12	8.43-11	7.74-11	1.04-15	0.	2.94-06	7.92-07
2.06-10	6.99-11	8.78-11	8.08-11	8.32-12	3.11-13	3.09-21	1.70-07	1.70-07
4.73-11	2.54-11	1.46-10	2.48-11	1.88-11	8.87-14	3.66-26	1.19-11	6.74-12
2.52-11	1.74-09	6.49-11	8.85-11	1.90-11	6.31-15	2.39-22	8.27-08	8.26-08
1.32-11	3.35-11	3.56-11	1.03-10	3.67-12	5.58-15	1.40-20	7.09-12	2.31-12
1.99-11	1.08-11	1.28-11	2.95-11	9.80-12	2.67-14	7.15-26	3.76-12	1.88-12
4.02-11	4.22-11	9.75-11	3.58-11	7.93-11	3.56-13	3.15-21	2.99-08	2.09-08
5.37-11	7.46-11	1.47-10	1.62-10	4.13-11	1.35-12	4.44-24	1.73-11	4.74-12
2.35-10	3.29-11	7.84-11	2.69-11	2.76-11	9.11-13	1.73-24	2.23-08	1.71-08
1.32-09	7.66-11	5.22-11	1.10-10	7.48-12	2.17-15	5.16-23	4.02-08	1.34-08
2.10-10	6.39-10	1.72-10	1.44-10	6.18-11	7.19-13	4.09-21		
6.20-11	3.79-10	6.55-11	4.74-11	2.29-11	4.34-13	2.76-21	2.50-07	6.30-08

PHI 45 TO 90 DEGREES

0.	3.91-10	9.90-11	5.21-11	8.60-11	1.56-13	7.70-23	2.96-11	1.89-11
1.89-11	2.78-11	4.50-11	1.42-11	4.61-12	3.16-14	4.30-22	5.40-12	2.08-12
0.	3.96-10	2.38-11	6.03-12	4.15-12	5.92-13	1.27-30	2.48-11	1.89-11
2.21-10	5.27-11	1.04-10	1.76-10	9.79-12	5.41-16	1.95-24	3.12-11	1.85-11
2.26-10	6.70-11	2.95-11	2.01-11	3.41-11	6.20-13	9.62-20	2.64-11	1.96-11
9.34-13	4.22-11	1.52-10	2.08-11	1.52-11	1.11-12	6.32-23	8.83-12	3.79-12
8.37-12	5.55-11	3.62-10	1.96-10	3.40-11	5.49-11	2.68-20	2.28-11	9.89-12
1.02-10	5.51-11	9.12-11	1.09-10	1.83-11	5.20-15	5.37-24	1.89-11	4.43-12
6.13-10	1.03-10	1.78-10	4.89-11	1.20-11	5.99-15	5.54-25	6.93-11	3.10-11
7.87-10	1.35-10	4.82-10	1.83-11	1.35-09	1.07-15	1.37-19	1.17-10	3.49-11
2.99-10	2.29-10	2.88-10	1.74-10	1.18-10	1.84-11	3.38-20		
9.65-11	8.88-11	7.86-11	6.74-11	8.20-11	1.80-11	2.03-20	5.72-11	1.18-11

PHI 90 TO 135 DEGREES

0.	6.60-11	2.26-11	5.61-10	2.13-10	9.74-13	7.43-22	2.15-11	1.34-11
0.	1.11-10	5.25-12	1.80-11	8.53-12	7.12-15	2.83-25	7.43-12	3.66-12
5.52-12	4.51-11	1.45-10	3.87-10	1.66-11	6.26-15	3.39-25	1.79-11	9.98-12
6.06-13	1.19-10	8.72-11	4.60-11	4.29-12	2.01-14	1.23-21	1.15-11	4.18-12
2.28-12	7.33-11	1.67-11	2.89-11	1.99-11	1.07-15	1.83-22	6.20-12	2.75-12
4.89-11	1.22-11	9.78-12	2.89-11	2.69-12	1.31-14	8.03-23	6.22-12	3.88-12
1.70-10	1.80-10	2.89-11	1.75-11	6.61-11	3.42-14	2.17-19	2.98-11	1.34-11
2.43-10	7.15-11	4.46-11	5.40-11	1.09-11	8.29-14	3.21-22	3.25-11	1.20-11
6.43-10	7.87-11	6.37-11	4.36-10	1.21-10	1.77-14	1.04-22	7.86-11	3.50-11
7.82-10	1.19-10	8.22-11	2.99-11	4.01-12	5.99-15	3.78-22	8.23-11	2.65-11
2.90-10	1.88-10	1.11-10	2.62-10	6.98-11	1.07-13	7.14-20		
8.60-11	5.04-11	4.13-11	1.35-10	3.19-11	5.85-14	6.43-20	5.02-11	9.27-12

PHI 135 TO 180 DEGREES

0.	2.03-12	1.03-12	9.96-12	8.44-14	1.25-12	1.27-22	4.10-13	2.65-13
0.	1.87-10	1.53-11	1.07-10	1.77-11	7.00-15	4.97-25	1.46-11	9.78-12
3.92-11	1.45-10	1.85-11	1.89-11	8.07-11	3.07-14	2.27-22	1.46-11	6.39-12
9.76-14	5.22-10	1.27-11	3.36-11	2.60-12	4.48-14	6.33-22	3.26-11	1.79-11
6.80-14	6.36-10	5.28-10	7.50-10	7.30-12	5.55-13	2.35-22	7.53-11	4.60-11
2.27-11	1.61-10	5.96-11	3.78-11	8.14-12	4.02-13	6.18-24	1.49-11	6.56-12
8.68-11	1.64-10	8.99-11	2.41-10	2.78-11	8.47-13	1.26-21	2.71-11	7.88-12
8.49-11	8.15-11	3.60-11	1.44-10	2.43-11	2.09-12	7.05-23	1.88-11	5.99-12
7.83-10	2.89-10	1.26-10	3.86-10	4.22-11	2.14-14	3.09-23	1.05-10	5.09-11
8.88-10	8.11-11	2.11-10	6.49-11	1.53-12	3.28-16	1.36-19	9.74-11	3.57-11
2.55-10	5.10-10	1.87-10	3.60-10	5.10-11	1.10-12	8.95-21		
8.22-11	1.56-10	9.21-11	1.39-10	1.89-11	6.71-13	8.20-21	7.07-11	1.48-11
							3.93-07	9.90-08

AIR SCATTERING 3.01 02 ENERGY 1.20 01 ANGLE 1.50 01 DIST. 1.22 03
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.	1.86-08	2.07-08	1.03-08	0.	0.	0.	0.
4.00 01	0.	0.	0.	4.79-09	1.08-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	9.29-09	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	6.80-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	5.15-09	3.93-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	6.85-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	8.39-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	8.68-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.05-08
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.57-09
	0.	1.12-09	1.25-09	1.45-09	1.88-09	2.47-09	3.11-09	8.89-09

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.	1.19-08	1.32-08	6.54-09	7.15-09	0.	0.	1.16-09
4.00 01	0.	0.	0.	3.05-09	6.89-09	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	5.92-09	0.	1.97-10
8.00 01	0.	0.	0.	0.	0.	0.	4.33-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	3.28-09	2.50-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	4.36-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	5.34-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	5.53-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.67-09
1.80 02	0.	0.	0.	0.	0.	0.	2.59-12	1.78-09
	0.	7.16-10	7.94-10	9.24-10	1.63-09	1.57-09	1.98-09	5.79-09
	0.	1.78-10	2.39-10	3.49-10	6.51-10	6.43-10	8.13-10	1.05-09

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.	2.05-12
1.60 02	0.	0.	0.	0.	0.	0.	5.25-14	4.57-13
1.80 02	0.	0.	0.	0.	0.	0.	1.93-14	3.87-11
	0.	0.	0.	0.	0.	0.	1.03-14	2.96-12
	0.	0.	0.	0.	0.	0.	9.18-15	1.52-12

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.	5.95-10	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.	2.68-14
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.68-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.08-11
1.80 02	0.	0.	0.	0.	0.	0.	1.06-12	1.70-11
	0.	0.	0.	0.	0.	0.	1.03-10	1.03-10
	0.	0.	0.	0.	0.	0.	1.03-10	9.79-11

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.	6.65-14
1.60 02	0.	0.	0.	0.	0.	0.	0.	3.40-11
1.80 02	0.	0.	0.	0.	0.	0.	1.07-17	8.27-12
	0.	0.	0.	0.	0.	0.	6.45-19	6.43-12
	0.	0.	0.	0.	0.	0.	6.45-19	5.77-12

3201742175 2051444561 35

AIR SCATTERING 3.01 02 ENERGY 1.20 01 ANGLE 1.50 01 DIST. 1.22 03
2.20 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.	9.31-08
0.	0.	0.	0.	0.	0.	0.	1.18-08
0.	0.	0.	0.	0.	0.	0.	4.09-09
0.	0.	0.	0.	0.	0.	0.	1.77-09
0.	0.	0.	0.	0.	0.	0.	1.93-09
0.	0.	0.	0.	0.	0.	0.	1.03-09
0.	0.	0.	0.	0.	0.	0.	1.26-09
0.	0.	0.	0.	0.	0.	0.	1.30-09
0.	0.	0.	0.	0.	0.	0.	1.57-09
0.	0.	0.	0.	0.	0.	0.	3.86-10
0.	0.	0.	0.	0.	0.	0.	
							1.09-08

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.	3.70-10	3.10-13	4.40-12	1.15-12	5.34-15	2.75-23	6.41-08	1.25-08
0.	1.20-10	1.15-11	1.10-10	1.03-12	2.27-14	9.28-25	7.54-09	2.38-09
0.	2.76-10	8.22-11	1.69-10	1.49-12	1.16-14	6.07-20	2.66-09	1.06-09
3.76-11	3.52-10	1.56-10	5.06-11	1.71-11	2.91-15	2.54-22	1.16-09	5.63-10
1.59-11	1.71-10	2.23-11	1.92-11	2.10-11	9.05-14	2.60-25	1.24-09	7.11-10
6.57-11	1.08-10	5.88-11	1.05-10	1.49-11	8.20-14	1.49-25	6.71-10	4.63-10
1.02-10	6.66-11	1.37-10	1.45-10	1.35-11	1.33-13	1.57-18	8.23-10	3.08-10
3.98-10	1.46-10	3.93-10	1.87-10	3.42-11	1.88-12	2.27-19	8.93-10	2.27-10
1.24-09	7.06-10	1.30-10	1.24-10	1.78-10	4.06-12	1.86-20	1.16-09	1.54-10
1.05-09	8.09-10	1.34-10	1.70-10	2.57-10	3.35-13	2.28-23	4.23-10	7.68-11
4.43-10	5.12-10	2.69-10	2.33-10	7.25-11	1.31-12	5.93-19		
1.41-10	1.18-10	6.73-11	6.08-11	4.31-11	1.11-12	4.74-19	7.32-09	9.35-10

PHI 45 TO 90 DEGREES

0.	2.19-09	1.42-11	2.17-10	9.64-12	4.15-15	1.48-23	1.37-10	1.17-10
0.	6.85-11	3.79-11	1.19-10	1.38-10	2.04-13	8.53-21	1.04-11	5.52-12
2.99-16	1.82-10	7.28-11	3.06-11	7.80-12	8.86-15	1.83-21	1.44-11	6.29-12
1.75-10	6.98-10	4.50-11	2.65-11	2.35-12	9.93-14	1.79-21	5.99-11	3.09-11
6.05-12	4.28-11	3.17-11	8.13-11	1.41-11	8.78-15	1.25-25	6.41-12	2.13-12
1.06-09	2.79-10	2.19-10	6.34-11	4.56-11	6.77-14	3.90-23	1.22-10	8.33-11
5.77-11	7.32-11	7.58-11	4.58-11	3.88-11	1.91-13	1.03-18	1.40-11	4.63-12
3.98-10	3.00-11	1.20-09	6.69-11	2.34-11	1.89-13	8.05-23	8.32-11	4.42-11
1.20-10	2.74-10	1.84-10	2.19-10	6.55-11	6.21-13	2.72-21	4.01-11	9.56-12
1.72-10	2.05-11	4.77-11	4.00-10	9.75-10	8.17-14	3.75-24	4.84-11	1.74-11
3.97-10	5.57-10	4.65-10	1.71-10	1.27-10	3.09-13	3.39-19		
1.82-10	1.95-10	2.78-10	4.50-11	6.48-11	1.34-13	2.60-19	9.23-11	2.34-11

PHI 90 TO 135 DEGREES

0.	4.55-09	1.23-11	1.04-10	3.88-13	2.03-14	5.89-21	2.76-10	2.38-10
0.	8.82-10	2.29-11	1.32-09	1.53-12	2.36-14	6.89-20	2.40-10	1.65-10
0.	1.00-10	3.05-11	2.10-11	1.39-10	3.25-14	2.53-26	9.70-12	4.21-12
2.01-11	1.80-10	4.63-11	4.50-11	7.65-11	3.97-13	6.61-26	1.65-11	9.68-12
2.48-12	6.59-11	3.11-10	2.51-10	1.77-10	3.47-16	1.28-22	2.41-11	8.90-12
4.80-14	6.53-11	3.80-11	5.35-10	1.59-11	5.73-14	2.54-25	1.84-11	8.55-12
1.11-10	1.11-10	4.59-11	2.87-11	2.00-11	1.84-13	2.78-22	1.93-11	7.85-12
6.66-10	5.28-11	6.55-10	4.20-11	4.84-11	1.68-13	2.78-18	1.44-10	8.93-11
1.17-10	2.53-10	1.95-10	1.24-10	9.03-12	1.12-13	3.53-24	3.90-11	1.49-11
9.74-11	8.54-11	2.49-11	2.54-11	6.64-11	4.77-13	9.21-28	1.92-11	5.18-12
2.47-10	6.35-10	3.13-10	4.36-10	1.21-10	3.06-13	7.52-19		
1.26-10	3.66-10	1.63-10	2.37-10	6.32-11	1.15-13	7.39-19	1.26-10	4.29-11

PHI 135 TO 180 DEGREES

0.	2.45-11	5.20-12	2.95-11	1.16-12	8.65-15	9.50-22	2.38-12	1.50-12
3.57-11	4.33-10	1.01-10	4.50-11	1.44-10	7.47-13	8.43-20	3.61-11	1.59-11
0.	8.98-11	5.14-11	5.49-11	7.78-11	4.53-14	2.54-21	9.72-12	2.86-12
0.	2.17-10	1.83-10	7.43-11	1.44-11	4.89-14	4.64-21	2.16-11	1.17-11
4.56-13	1.22-10	2.75-11	1.23-10	3.56-12	1.31-10	2.58-27	1.25-11	3.57-12
3.59-12	2.32-12	1.16-10	5.94-11	5.15-12	1.88-14	7.92-21	6.14-12	4.06-12
1.22-11	1.40-10	8.84-11	1.86-10	2.19-11	1.70-12	8.34-20	1.75-11	7.68-12
1.22-11	3.45-11	1.04-10	5.52-11	1.18-11	2.56-12	6.01-22	8.45-12	2.87-12
2.22-11	2.93-11	5.11-11	6.53-11	2.17-11	8.13-12	2.88-25	1.27-11	5.39-12
6.29-10	1.36-09	1.94-10	1.09-10	2.55-11	5.75-15	1.04-23	1.50-10	9.13-11
5.59-11	3.35-10	1.93-10	1.73-10	6.75-11	2.56-11	4.57-20		
2.09-11	1.12-10	5.03-11	5.19-11	3.16-11	2.35-11	3.12-20	3.85-11	8.22-12
							1.19-08	1.50-09

AIR SCATTERING 3.02 02 ENERGY 1.20 01 ANGLE 3.00 01 DIST. 1.22 03
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.	7.62-10	1.21-08	1.02-08	0.	0.	0.
4.00 01	0.	0.	0.	0.	1.38-09	5.73-09	0.	0.
6.00 01	0.	0.	0.	0.	0.	1.12-09	3.36-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	2.20-09	1.56-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.71-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.45-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.57-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.35-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	9.53-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	4.59-11	7.31-10	8.58-10	1.29-09	1.61-09	4.15-09

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.	4.85-10	7.72-09	6.52-09	0.	0.	0.
4.00 01	0.	0.	0.	0.	8.81-10	3.65-09	0.	0.
6.00 01	0.	0.	0.	0.	0.	7.13-10	2.14-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	1.40-09	9.94-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.00-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.20-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.27-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.38-09
1.60 02	0.	0.	0.	0.	0.	0.	5.29-16	7.76-10
1.80 02	0.	0.	0.	0.	0.	0.	1.39-11	3.52-13
	0.	0.	2.92-11	4.65-10	5.46-10	8.24-10	1.03-09	2.74-09
	0.	0.	2.92-11	1.55-10	2.06-10	2.91-10	3.64-10	4.53-10

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.	2.64-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.61-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.78-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	9.78-12
	0.	0.	0.	0.	0.	0.	0.	1.41-11
	0.	0.	0.	0.	0.	0.	0.	9.78-12

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.	5.32-14
1.20 02	0.	0.	0.	0.	0.	0.	1.61-11	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.76-14
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.03-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	8.58-13
	0.	0.	0.	0.	0.	0.	5.26-12	8.62-14
	0.	0.	0.	0.	0.	0.	3.72-12	5.45-14

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.	1.07-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	6.16-13
	0.	0.	0.	0.	0.	0.	0.	1.89-12
	0.	0.	0.	0.	0.	0.	0.	1.86-12

14363542026 1 0605601271 75

AIR SCATTERING 3.02 02 ENERGY 1.20 01 ANGLE 3.00 01 DIST. 1.22 03
1.30 01 1.18 03 0. 0. 3.02 04 5.00 01 1.20 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.	2.01-08
0.	0.	0.	0.	0.	0.	0.	3.42-09
0.	0.	0.	0.	0.	0.	0.	1.37-09
0.	0.	0.	0.	0.	0.	0.	8.07-10
0.	0.	0.	0.	0.	0.	0.	7.07-10
0.	0.	0.	0.	0.	0.	0.	5.18-10
0.	0.	0.	0.	0.	0.	0.	5.35-10
0.	0.	0.	0.	0.	0.	0.	5.02-10
0.	0.	0.	0.	0.	0.	0.	1.43-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							2.98-09

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.	1.48-11	5.27-11	1.96-11	8.71-11	3.76-20	1.50-29	1.28-08	3.28-09
2.97-09	2.28-10	2.82-12	2.94-11	2.83-11	6.27-15	1.83-24	2.46-09	8.13-10
3.08-10	1.30-10	1.50-11	6.17-11	1.88-12	1.14-12	3.37-24	9.07-10	3.68-10
5.43-11	6.26-11	1.49-11	2.76-11	2.81-12	1.27-13	4.04-23	5.22-10	2.11-10
9.71-11	5.13-11	4.01-11	1.35-11	5.32-12	9.81-16	7.41-25	4.64-10	2.25-10
1.65-10	3.93-11	1.32-10	1.58-10	5.27-12	9.32-14	1.79-22	3.56-10	1.66-10
5.83-10	4.34-11	8.33-11	1.06-10	2.10-11	2.86-14	1.30-23	4.01-10	9.87-11
2.15-10	4.98-11	1.47-10	1.12-10	4.41-12	7.57-14	1.92-24	3.88-10	6.52-11
1.04-09	7.87-11	1.20-10	1.48-10	9.68-11	1.68-15	5.38-22	2.24-10	6.07-11
5.11-10	3.68-11	4.08-11	4.58-10	3.33-10	2.18-13	6.16-25	6.93-11	2.58-11
1.11-09	1.56-10	1.32-10	1.79-10	5.84-11	4.06-13	5.04-23		
5.46-10	3.71-11	2.97-11	4.16-11	3.15-11	2.87-13	3.39-23	2.03-09	2.80-10

PHI 45 TO 90 DEGREES

0.	1.07-10	3.61-11	2.40-13	1.47-11	8.94-18	9.69-32	7.92-12	6.50-12	
1.05-10	2.38-10	1.91-11	1.59-10	1.19-11	9.84-14	8.88-25	2.84-11	1.59-11	
1.97-10	3.74-11	1.25-10	4.33-10	5.58-11	5.86-15	1.46-20	3.57-11	1.98-11	
1.63-10	8.83-11	2.22-11	1.56-10	3.53-11	2.86-14	1.64-20	2.51-11	1.30-11	
2.57-11	2.93-10	4.21-11	2.19-11	1.08-11	2.44-13	5.00-28	2.21-11	1.41-11	
4.28-11	1.84-11	9.92-11	1.85-11	8.91-12	6.57-15	1.01-24	9.10-12	5.10-12	
3.76-11	7.33-11	5.47-11	2.53-11	8.17-12	1.62-13	1.69-20	1.44-11	6.48-12	
3.47-11	6.72-11	1.36-10	2.77-11	1.11-11	6.02-13	4.85-23	1.30-11	4.30-12	
2.16-10	7.15-10	1.76-10	1.58-11	1.62-11	5.52-15	6.06-24	7.34-11	2.78-11	
3.81-10	1.81-11	3.85-11	2.77-11	1.80-10	1.32-12	3.41-30	4.16-11	3.22-11	
2.18-10	3.07-10	1.58-10	2.21-10	5.20-11	3.65-13	1.48-20			
7.81-11	9.37-11	4.03-11	1.18-10	1.82-11	1.76-13	8.55-21	5.19-11	1.05-11	

PHI 90 TO 135 DEGREES

0.	4.77-11	3.37-12	1.72-12	3.21-12	2.69-12	2.61-30	3.10-12	2.29-12	
8.	7.18-12	7.09-12	8.01-12	1.90-10	1.29-14	1.96-30	3.74-12	2.62-12	
0.	2.64-11	4.68-12	6.58-11	6.15-12	1.70-12	4.59-23	3.44-12	1.54-12	
1.92-13	3.37-11	1.21-10	8.89-11	8.68-12	6.64-14	6.07-23	8.67-12	3.60-12	
6.81-11	9.66-11	1.65-11	7.47-11	1.56-12	2.94-13	1.40-23	1.43-11	2.94-12	
6.18-11	6.72-12	4.20-11	4.42-11	4.27-12	3.17-13	8.72-26	8.61-12	5.22-12	
2.95-11	2.36-10	4.42-11	1.87-11	9.38-11	2.56-13	3.63-22	2.43-11	1.01-11	
1.17-11	9.97-11	9.43-11	1.84-11	4.07-11	6.14-14	1.33-22	1.14-11	5.32-12	
1.96-11	6.70-11	1.45-10	2.00-11	4.16-11	3.03-13	3.44-23	1.21-11	4.28-12	
3.00-11	2.13-11	2.68-11	6.94-11	3.85-11	1.00-11	3.30-20	7.41-12	2.12-12	
3.99-11	1.57-10	1.19-10	8.68-11	8.97-11	1.50-12	2.19-21			
1.67-11	5.87-11	3.49-11	2.65-11	4.93-11	7.90-13	1.99-21	2.21-11	4.56-12	

PHI 135 TO 180 DEGREES

0.	0.	0.	1.81-14	6.27-11	1.01-14	2.04-25	9.41-13	9.37-13	
0.	1.87-11	5.65-12	3.14-11	8.35-12	3.62-11	1.09-27	2.53-12	1.01-12	
0.	9.46-11	2.53-11	4.82-11	1.03-11	3.93-12	7.56-26	7.94-12	3.60-12	
4.84-12	8.42-11	5.71-11	2.50-11	1.42-11	3.99-14	1.35-23	8.35-12	5.68-12	
0.	2.04-11	6.33-12	7.67-11	1.09-12	2.18-13	3.82-27	3.31-12	1.62-12	
5.80-12	4.98-10	3.61-11	1.14-10	1.23-10	9.78-14	5.43-25	3.61-11	2.70-11	
2.31-12	1.02-10	2.81-11	2.13-11	4.92-12	3.05-13	1.24-20	7.96-12	3.79-12	
4.90-12	1.09-11	4.01-11	1.55-10	2.43-12	6.61-14	4.89-19	6.29-12	3.12-12	
1.70-10	6.29-12	2.58-11	9.22-12	1.27-11	1.03-13	2.60-20	1.86-11	8.81-12	
2.14-11	1.05-10	1.75-09	3.91-11	1.55-11	4.18-12	1.97-19	7.24-11	4.35-11	
3.51-11	1.90-10	1.63-10	1.12-10	3.95-11	7.79-12	1.50-19			
1.65-11	8.75-11	7.56-11	4.16-11	2.05-11	7.14-12	1.42-19	2.40-11	7.00-12	
							3.34-09	4.47-10	

AIR SCATTERING 3.03 02 ENERGY 1.20 01 ANGLE 6.00 01 DIST. 1.22 03
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.	6.70-09	5.06-09	0.
4.00 01	0.	0.	0.	0.	0.	0.	3.60-09	0.
6.00 01	0.	0.	0.	0.	0.	0.	3.78-10	2.56-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.02-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.53-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.38-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	6.80-10
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.	4.04-10	1.03-09	2.07-09

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.	4.27-09	3.22-09	0.
4.00 01	0.	0.	0.	0.	0.	0.	2.29-09	2.68-10
6.00 01	0.	0.	0.	0.	0.	0.	2.41-10	1.63-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.46-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	9.76-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	8.78-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	5.20-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.29-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	5.02-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	2.57-10	6.57-10	1.45-09
	0.	0.	0.	0.	0.	9.07-11	1.65-10	2.03-10

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.	6.57-18
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.	1.75-18
	0.	0.	0.	0.	0.	0.	0.	1.75-18

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.	4.71-13
	0.	0.	0.	0.	0.	0.	0.	2.84-14
	0.	0.	0.	0.	0.	0.	0.	2.84-14

060560127175 162176612615

AIR SCATTERING 3.03 02 ENERGY 1.20 01 ANGLE 6.00 01 DIST. 1.22 03

1.60 01	1.18 03	0.	0.	3.04 04	5.00 01	1.20 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.	4.26-09
0.	0.	0.	0.	0.	0.	0.	9.37-10
0.	0.	0.	0.	0.	0.	0.	4.82-10
0.	0.	0.	0.	0.	0.	0.	3.03-10
0.	0.	0.	0.	0.	0.	0.	2.30-10
0.	0.	0.	0.	0.	0.	0.	2.07-10
0.	0.	0.	0.	0.	0.	0.	1.02-10
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.	
							7.56-10

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		
0.	2.47-11	3.55-11	1.16-10	2.30-11	2.91-15	1.31-21	2.72-09	7.82-10
3.90-10	9.49-11	2.47-11	4.31-11	1.79-11	5.37-12	3.59-21	6.80-10	1.96-10
1.89-10	5.29-11	1.16-10	3.50-11	2.34-11	2.07-14	3.32-22	3.32-10	9.28-11
2.09-10	3.00-10	1.08-10	4.93-11	3.49-12	4.64-14	5.17-23	2.61-10	6.26-11
2.53-10	3.42-11	1.86-10	2.08-11	4.72-11	2.89-13	1.38-20	1.79-10	4.01-11
8.09-10	3.32-11	3.15-10	1.19-10	6.11-12	1.41-13	1.96-20	2.21-10	4.81-11
4.37-10	4.54-11	5.84-11	8.93-11	2.20-10	9.71-14	1.07-22	1.28-10	1.59-11
1.55-10	3.46-11	2.78-10	3.30-11	3.68-11	2.65-14	3.54-23	2.93-11	1.12-11
5.03-11	3.65-11	7.23-10	4.95-11	2.73-11	2.40-14	3.71-24	3.51-11	2.57-11
7.26-13	3.84-13	7.17-12	1.78-11	5.07-12	7.48-15	4.30-25	8.49-13	3.82-13
5.63-10	1.72-10	3.78-10	1.12-10	1.08-10	1.07-12	5.08-21		
1.24-10	5.64-11	1.80-10	2.36-11	7.43-11	9.34-13	4.21-21	5.81-10	7.31-11

PHI 45 TO 90 DEGREES

0.	1.81-11	1.02-11	9.12-12	4.17-13	1.44-14	7.44-29	1.68-12	1.04-12
4.05-14	4.62-11	5.74-11	3.83-12	2.49-11	1.74-14	1.24-21	5.30-12	2.02-12
4.80-17	3.57-11	3.07-11	5.49-11	2.82-11	2.33-15	1.06-22	4.98-12	1.57-12
7.02-12	8.27-11	1.12-10	2.18-11	1.29-11	1.71-14	6.77-24	1.03-11	4.47-12
7.39-11	9.86-11	2.69-10	2.55-10	3.70-12	7.55-14	2.07-27	2.84-11	1.24-11
9.38-11	2.59-10	2.70-11	1.91-10	5.86-11	2.13-13	3.80-26	3.04-11	1.43-11
6.02-11	3.05-11	9.41-11	5.84-11	2.37-11	1.28-14	5.16-24	1.24-11	3.68-12
4.59-10	3.81-11	9.49-11	1.05-10	5.45-11	7.88-14	4.72-25	5.03-11	3.68-11
2.60-11	3.30-11	6.85-11	2.68-11	2.32-12	1.20-14	1.80-22	7.46-12	2.60-12
4.18-14	6.64-12	9.09-12	5.09-12	1.71-11	8.51-17	1.08-23	1.11-12	4.89-13
1.78-10	1.34-10	1.75-10	1.52-10	5.05-11	8.75-14	2.79-22		
1.10-10	4.76-11	5.13-11	6.30-11	1.58-11	5.02-14	2.18-22	3.47-11	1.08-11

PHI 90 TO 135 DEGREES

0.	7.58-11	2.46-11	2.66-11	2.83-13	2.98-15	1.69-22	6.08-12	4.00-12
0.	1.40-10	5.98-11	5.41-12	2.25-11	2.44-15	1.01-22	1.10-11	5.07-12
0.	8.26-11	2.80-11	4.22-11	3.16-12	1.17-13	1.89-19	7.03-12	4.00-12
1.08-11	9.95-11	5.56-11	3.84-11	5.02-12	5.95-15	6.99-21	9.94-12	3.48-12
0.	1.38-11	1.82-11	8.55-12	3.66-12	4.21-16	1.30-22	1.74-12	8.01-13
0.	8.45-10	5.31-11	1.30-11	7.16-12	1.27-14	1.72-20	2.90-11	2.63-11
9.54-13	5.94-10	2.53-11	2.18-11	4.03-12	7.91-16	4.72-27	3.72-11	2.40-11
8.56-12	2.15-11	1.16-10	5.71-11	2.67-12	1.80-15	3.48-23	7.68-12	3.33-12
3.43-13	2.61-11	2.84-11	3.68-11	6.47-11	2.66-13	5.26-22	4.48-12	1.47-12
1.76-09	1.60-13	1.09-10	3.05-13	1.46-09	1.44-12	1.02-23	1.84-10	1.60-10
1.12-10	3.67-10	1.01-10	5.87-11	1.09-10	1.70-13	5.33-20		
1.06-10	1.55-10	2.64-11	1.83-11	9.37-11	1.24-13	5.02-20	3.88-11	1.39-11

PHI 135 TO 180 DEGREES

0.	5.85-12	1.91-10	1.23-11	2.09-11	2.00-16	4.80-25	7.85-12	6.68-12
0.	8.45-11	1.47-11	1.47-11	2.27-11	1.13-15	6.73-25	6.29-12	3.27-12
0.	9.20-11	3.46-11	4.83-12	9.74-12	1.09-13	3.65-28	7.03-12	3.36-12
0.	9.10-11	3.49-11	4.56-10	1.84-12	3.59-13	1.76-21	1.77-11	1.13-11
0.	3.16-13	8.25-11	1.38-11	5.21-13	3.66-14	4.99-31	3.33-12	2.05-12
0.	2.65-11	2.04-11	2.27-10	2.23-10	2.50-13	2.37-22	1.11-11	8.44-12
8.46-14	3.89-11	2.31-11	4.98-12	6.35-12	6.59-12	9.27-21	3.45-12	1.90-12
8.38-13	1.97-10	3.71-11	3.38-11	4.78-11	7.63-15	8.15-24	1.47-11	1.11-11
9.67-14	6.27-11	9.54-12	6.33-13	5.03-12	1.26-13	1.81-18	4.21-12	3.47-12
0.	7.27-12	1.75-10	2.14-10	6.87-13	1.10-18	0.	1.20-11	7.84-12
2.67-13	1.50-10	8.22-11	2.19-10	6.29-11	2.37-12	3.17-19		
2.40-13	5.83-11	2.51-11	1.81-10	4.11-11	2.91-12	3.14-19	1.82-11	6.30-12
							1.06-09	1.27-10

AIR SCATTERING 3.04 02 ENERGY 1.20 01 ANGLE 9.00 01 DIST. 1.22 03
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.	5.39-09	3.80-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.64-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.89-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.03-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.02-10
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.	3.25-10	1.73-09

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.	3.43-09	2.42-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.31-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.41-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	6.94-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.40-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	8.15-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.81-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.42-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	3.27-14
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	2.07-10	1.20-09
	0.	0.	0.	0.	0.	0.	7.31-11	1.51-10

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.	6.13-13
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.	6.42-13
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.	2.54-12
	0.	0.	0.	0.	0.	0.	0.	5.26-13
	0.	0.	0.	0.	0.	0.	0.	3.06-13

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.	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.

162176612615 305556717141

AIR SCATTERING 3.04 02 ENERGY 1.20 01 ANGLE 9.00 01 DIST. 1.22 03
2.20 01 1.17 03 0. 0. 3.03 04 5.00 01 1.20 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.	1.97-09	
0.	0.	0.	0.	0.	0.	0.	5.45-10	
0.	0.	0.	0.	0.	0.	0.	2.84-10	
0.	0.	0.	0.	0.	0.	0.	1.54-10	
0.	0.	0.	0.	0.	0.	0.	3.02-11	
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.		
							3.44-10	

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		
6.07-10	1.42-12	1.33-11	4.24-12	4.50-12	1.49-13	4.15-21	1.31-09	3.79-10
7.86-10	3.76-11	7.10-10	5.82-11	6.03-11	1.00-14	3.74-23	4.48-10	1.09-10
1.79-10	1.13-10	1.12-10	9.15-11	3.06-11	4.12-12	1.51-19	2.42-10	4.74-11
2.78-10	4.51-11	5.05-10	5.38-11	7.56-12	2.32-14	4.05-22	1.51-10	2.02-11
2.25-10	1.12-10	9.18-11	2.16-10	1.21-11	3.44-14	2.50-23	7.15-11	1.51-11
5.98-11	4.24-11	1.37-10	7.28-11	1.28-11	6.13-15	1.48-20	1.60-11	4.75-12
9.11-11	3.01-11	9.35-11	1.92-10	1.25-10	2.93-14	1.66-20	2.01-11	5.38-12
1.33-09	4.43-10	5.35-11	6.47-11	2.40-11	3.39-12	8.85-23	1.54-10	1.05-10
3.16-12	2.11-11	3.57-11	9.00-11	2.60-11	8.54-13	1.21-26	5.40-12	1.56-12
3.26-12	1.22-10	1.86-10	1.87-11	2.24-12	2.00-11	2.40-23	1.48-11	8.19-12
7.46-10	2.17-10	4.20-10	1.99-10	7.76-11	3.39-12	4.86-20		
3.03-10	1.07-10	1.52-10	5.52-11	3.33-11	1.95-12	4.06-20	3.35-10	4.76-11

PHI 45 TO 90 DEGREES

0.	8.71-12	4.57-11	7.53-11	9.48-11	1.44-13	2.67-28	5.40-12	2.50-12
6.18-11	1.05-10	1.13-10	1.07-10	1.42-10	1.25-13	1.30-20	2.06-11	6.22-12
4.00-11	6.81-10	5.31-10	2.28-10	7.90-11	1.71-13	8.82-19	7.04-11	3.78-11
1.40-11	1.24-10	1.44-11	3.08-11	9.48-11	6.91-15	1.60-18	1.14-11	6.32-12
3.97-11	3.57-11	1.36-11	3.11-11	6.74-11	3.62-14	1.75-23	7.96-12	2.57-12
6.51-12	2.31-11	2.60-11	4.66-11	1.09-11	3.28-13	1.62-21	4.19-12	1.40-12
3.64-11	2.34-11	3.56-11	1.22-11	8.63-12	4.85-14	3.15-19	6.48-12	2.95-12
1.32-12	2.07-11	2.59-11	1.16-10	4.68-12	3.90-14	1.76-24	5.14-12	1.84-12
6.24-13	4.25-11	5.08-11	2.51-11	6.47-10	3.28-13	1.03-23	1.47-11	6.55-12
1.10-16	2.53-11	3.82-11	1.96-11	1.11-11	1.09-15	9.54-22	3.91-12	1.91-12
4.63-11	2.73-10	2.05-10	1.48-10	2.13-10	2.25-13	8.63-19		
1.63-11	1.55-10	1.17-10	5.23-11	7.99-11	8.54-14	8.60-19	3.47-11	1.07-11

PHI 90 TO 135 DEGREES

0.	7.70-11	7.50-11	2.00-11	1.19-11	1.31-13	4.19-28	7.98-12	3.41-12
3.59-10	2.36-10	8.23-11	1.63-11	1.02-11	2.42-14	4.35-27	5.00-11	3.05-11
2.50-13	2.62-10	2.29-11	4.94-11	1.11-10	7.16-16	6.81-20	1.94-11	9.60-12
4.84-14	2.25-10	8.95-11	9.33-11	3.02-11	7.41-14	1.33-20	1.94-11	9.32-12
0.	2.08-10	7.34-11	1.13-11	1.16-11	5.57-11	3.63-25	1.61-11	9.56-12
2.56-14	1.45-10	1.68-13	8.08-12	6.09-11	1.26-13	7.80-20	9.90-12	7.93-12
0.	7.63-11	1.10-10	7.33-11	7.40-11	9.88-13	5.00-22	1.14-11	4.38-12
8.75-14	2.67-11	6.05-11	9.41-12	8.83-12	7.96-15	5.10-21	4.15-12	2.02-12
1.10-13	1.28-12	1.80-13	6.79-10	1.98-11	1.57-12	2.42-22	1.67-11	1.48-11
6.38-12	6.89-12	0.	3.34-11	2.76-12	4.34-15	2.40-28	1.83-12	1.12-12
6.29-11	2.82-10	1.19-10	1.97-10	8.54-11	1.03-11	3.76-20		
5.75-11	8.09-11	5.41-11	1.19-10	4.15-11	9.98-12	2.31-20	3.30-11	8.39-12

PHI 135 TO 180 DEGREES

2.35-13	1.17-10	3.19-11	1.38-11	3.73-12	2.48-14	1.02-28	8.55-12	6.77-12
0.	3.88-11	4.61-12	1.66-11	1.48-10	1.07-14	8.36-28	5.12-12	2.39-12
0.	5.29-11	1.49-10	1.22-09	6.84-10	5.64-13	2.41-21	4.80-11	3.76-11
0.	2.02-10	8.69-12	5.25-10	1.03-11	1.15-12	1.68-22	2.52-11	1.59-11
0.	1.58-10	4.13-12	5.99-11	1.54-11	1.94-12	2.68-22	1.13-11	7.34-12
0.	1.17-11	4.24-11	6.02-12	9.11-13	1.83-16	1.00-25	2.39-12	1.10-12
4.16-12	3.28-11	5.36-11	3.12-10	5.97-10	6.52-14	2.55-19	2.07-11	8.89-12
4.73-13	8.20-11	5.94-11	1.79-10	1.96-10	7.99-13	7.72-21	1.43-11	7.01-12
0.	3.15-12	1.10-10	1.71-10	1.78-12	2.61-13	4.25-21	8.27-12	4.68-12
1.15-12	5.55-13	1.03-12	2.90-10	1.78-12	1.08-17	7.65-30	7.16-12	6.70-12
1.57-12	1.56-10	1.06-10	7.07-10	4.62-10	1.15-12	8.68-20		
1.49-12	8.63-11	3.88-11	4.71-10	2.73-10	5.05-13	8.33-20	3.72-11	1.56-11
							6.91-10	8.87-11

AIR SCATTERING 3.05 02 ENERGY 1.20 01 ANGLE 1.35 02 DIST. 1.22 03
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.	1.18-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.76-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	4.88-11
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.	1.20-09

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.	7.48-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.23-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	7.46-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.52-14
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.	8.59-10
	0.	0.	0.	0.	0.	0.	0.	1.20-10

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.	2.23-20
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.	5.93-21
	0.	0.	0.	0.	0.	0.	0.	5.93-21

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.	2.51-14
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.	6.67-15
	0.	0.	0.	0.	0.	0.	0.	6.67-15

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.	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.

305556717141 000535235355

AIR SCATTERING 3.05 02 ENERGY 1.20 01 ANGLE 1.35 02 DIST. 1.22 03

1.30 01	1.18 03	0.	0.	2.98 04	5.00 01	1.20 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.	1.76-09
0.	0.	0.	0.	0.	0.	0.	4.14-10
0.	0.	0.	0.	0.	0.	0.	7.32-12
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							1.80-10

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		
5.80-10	4.43-11	3.40-11	7.77-11	2.99-11	2.79-15	1.64-26	1.18-09	2.30-10
4.92-10	2.92-10	1.97-10	2.25-10	4.07-12	2.62-12	1.16-26	4.09-10	6.10-11
5.41-10	1.67-10	9.51-11	7.94-11	1.03-11	1.50-13	3.93-20	7.51-11	1.68-11
3.87-10	1.21-10	3.72-11	1.25-11	1.22-11	2.39-14	2.16-23	4.39-11	2.25-11
4.75-10	8.68-12	5.60-11	1.81-11	3.54-11	4.22-13	1.25-26	4.62-11	3.40-11
5.58-11	2.51-11	2.77-11	7.30-12	1.64-10	3.62-14	9.08-21	1.02-11	4.13-12
5.59-11	9.30-11	3.21-11	2.72-11	3.55-11	2.65-14	4.44-20	1.29-11	5.64-12
1.32-11	2.23-11	3.45-11	3.09-11	1.60-12	7.90-15	5.98-27	4.53-12	1.84-12
9.13-13	3.08-12	8.54-12	6.99-11	1.38-12	2.63-15	1.07-21	2.27-12	1.50-12
0.	1.10-11	4.01-12	1.35-11	1.75-12	5.75-19	0.	1.15-12	7.80-13
5.05-10	1.81-10	1.10-10	1.01-10	5.62-11	5.94-13	2.67-20		
1.24-10	4.35-11	2.67-11	4.72-11	3.90-11	4.62-13	1.91-20	1.92-10	2.43-11

PHI 45 TO 90 DEGREES

3.20-10	4.39-11	7.01-12	1.26-11	1.13-11	7.04-15	1.04-26	3.21-11	2.40-11
1.97-10	2.04-10	5.84-10	7.28-11	3.17-11	6.57-12	2.03-18	5.33-11	2.12-11
7.16-11	1.14-10	1.04-10	1.10-10	2.88-11	1.13-13	1.90-21	2.01-11	6.44-12
2.35-10	1.44-10	3.96-11	5.86-11	6.56-12	1.30-13	5.84-26	3.28-11	2.06-11
1.80-11	1.04-11	5.67-11	1.23-11	1.46-11	8.00-14	1.27-21	4.62-12	1.71-12
1.40-12	1.04-11	3.11-11	6.03-12	8.83-12	2.77-15	3.17-26	2.15-12	6.47-13
1.09-12	5.63-12	1.41-11	2.65-11	1.93-11	1.70-12	4.97-24	1.88-12	4.96-13
0.	9.40-11	1.13-10	2.20-11	4.41-12	1.62-13	1.80-25	1.03-11	4.79-12
0.	1.69-12	1.06-12	7.87-11	1.29-10	6.28-15	1.75-28	3.96-12	2.72-12
1.32-11	7.35-13	2.61-11	4.47-11	9.56-13	1.05-15	4.02-35	3.26-12	1.71-12
1.54-10	1.46-10	1.94-10	9.58-11	4.99-11	1.83-12	3.54-19		
7.44-11	5.44-11	8.61-11	2.62-11	1.73-11	1.53-12	3.54-19	3.27-11	8.54-12

PHI 90 TO 135 DEGREES

7.67-11	5.80-12	4.25-11	8.14-12	1.04-11	6.12-14	3.10-23	9.13-12	5.48-12
5.98-10	6.77-11	1.97-11	2.48-11	3.46-12	1.70-13	3.18-22	5.92-11	4.48-11
6.54-11	4.05-10	3.24-11	1.83-11	8.97-12	8.22-13	8.27-24	3.19-11	2.56-11
2.45-12	5.99-11	1.01-10	1.64-11	7.27-12	1.45-15	2.48-20	7.95-12	3.82-12
4.71-13	1.05-11	8.55-10	2.42-11	9.57-12	1.77-15	3.56-23	3.22-11	2.92-11
0.	1.32-11	5.31-12	1.10-10	4.45-11	5.07-15	1.08-27	4.29-12	2.29-12
0.	3.29-11	4.05-11	1.89-11	1.35-11	3.51-16	6.18-29	4.09-12	1.52-12
1.05-14	4.65-11	1.78-10	2.17-11	2.16-12	4.48-13	1.11-28	9.77-12	6.72-12
0.	8.58-13	4.17-11	2.96-10	1.24-11	3.81-15	2.36-28	8.83-12	8.05-12
0.	0.	3.46-12	2.07-11	4.09-13	5.11-17	6.43-25	6.28-13	5.06-13
1.27-10	1.67-10	2.65-10	1.03-10	2.26-11	3.73-13	8.17-21		
8.76-11	9.52-11	1.53-10	5.00-11	8.33-12	2.64-13	8.10-21	3.38-11	1.25-11

PHI 135 TO 180 DEGREES

2.02-11	2.84-11	7.43-12	3.47-11	1.10-11	5.06-15	5.30-27	4.79-12	2.26-12
1.02-10	1.15-10	1.84-11	6.19-12	6.63-12	7.41-16	1.63-26	1.70-11	1.05-11
3.46-12	5.16-11	8.62-11	1.49-11	2.34-12	2.76-14	1.17-20	6.91-12	3.01-12
0.	3.85-12	5.15-11	7.69-12	6.58-12	6.20-16	2.05-27	2.37-12	1.65-12
0.	2.03-11	1.63-11	9.12-12	1.77-11	4.46-12	2.30-24	2.33-12	1.16-12
0.	3.54-11	6.38-11	7.08-12	3.68-12	1.04-14	2.06-28	4.65-12	2.18-12
0.	7.90-15	7.89-11	5.95-11	1.63-12	4.87-15	1.32-23	4.29-12	2.88-12
0.	3.99-13	5.16-14	3.10-11	3.32-12	4.44-14	5.31-20	8.20-13	7.06-13
0.	9.80-12	3.64-14	2.18-13	6.28-14	5.57-13	3.66-30	6.01-13	5.29-13
0.	5.09-12	7.04-12	9.41-13	1.01-12	5.17-18	0.	5.97-13	3.98-13
1.98-11	4.84-11	8.35-11	4.02-11	9.78-12	8.94-13	1.72-20		
1.14-11	1.78-11	4.36-11	2.01-11	5.81-12	8.62-13	1.44-20	8.82-12	2.68-12
							4.20-10	5.39-11

AIR SCATTERING 3.06 02 ENERGY 1.20 01 ANGLE 1.80 02 DIST. 1.22 03
1.25-03 1.67-02 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.	1.63-08
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.	9.82-10

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.	1.04-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.18-16
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.	6.25-10
	0.	0.	0.	0.	0.	0.	0.	7.84-11

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	5.92-12
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.30-20
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.	3.57-13
	0.	0.	0.	0.	0.	0.	0.	3.42-13

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	3.75-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	9.96-14
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	6.23-13
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.	2.48-12
	0.	0.	0.	0.	0.	0.	0.	2.12-12

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.16-12
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.33-15
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.16-11
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.	3.17-12
	0.	0.	0.	0.	0.	0.	0.	2.89-12

000535235355 060243766111

AIR SCATTERING 3.06 02 ENERGY 1.20 01 ANGLE 1.80 02 DIST. 1.22 03
1.20 01 1.18 03 0. 0. 2.98 04 5.00 01 1.20 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.	2.44-09
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.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.47-10

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		
4.80-10	2.06-10	7.90-11	4.11-11	1.46-11	2.39-14	6.67-29	1.62-09	1.96-10
5.69-11	3.41-10	6.27-11	8.90-11	3.09-11	6.39-14	6.47-24	3.07-11	1.18-11
4.69-11	3.06-11	1.48-10	1.28-11	3.60-12	5.68-14	4.93-23	1.17-11	3.25-12
4.20-12	1.67-11	4.03-11	1.07-10	9.15-11	1.10-13	6.50-24	6.78-12	2.42-12
2.35-12	1.86-11	6.49-12	2.11-11	1.05-11	1.12-15	4.50-24	2.23-12	8.33-13
5.95-13	1.08-11	3.30-12	7.84-12	4.80-11	1.67-14	3.44-22	1.73-12	8.12-13
0.	2.81-11	5.81-10	1.35-11	5.19-12	4.51-14	1.04-23	2.30-11	2.07-11
0.	7.32-11	3.63-11	5.04-11	4.36-13	8.56-15	2.29-24	6.91-12	4.57-12
0.	2.58-11	3.35-13	2.76-11	8.58-13	2.18-18	1.30-28	2.24-12	1.56-12
0.	2.26-13	1.25-12	1.78-09	4.54-12	9.71-19	0.	4.29-11	4.27-11
5.37-11	1.23-10	2.69-10	1.91-10	4.94-11	8.36-14	8.09-23		
1.37-11	4.30-11	1.94-10	1.11-10	3.33-11	3.54-14	6.13-23	1.21-10	1.47-11

PHI 45 TO 90 DEGREES

1.91-09	4.47-11	2.19-10	9.56-11	2.44-11	4.84-13	8.19-22	1.86-10	8.42-11
1.38-10	1.13-10	8.95-11	1.14-10	2.27-11	7.22-15	4.42-22	2.55-11	6.32-12
5.84-11	4.15-11	6.98-11	7.34-11	5.36-11	4.12-14	5.92-28	1.28-11	3.22-12
4.86-10	4.22-11	7.43-12	3.31-11	4.14-11	4.63-14	1.80-23	4.80-11	4.02-11
1.39-12	3.17-11	1.01-10	2.37-11	3.02-11	3.15-14	3.75-23	6.70-12	3.95-12
1.48-14	4.74-11	4.13-12	1.07-11	2.88-11	3.24-15	2.15-24	3.68-12	2.62-12
0.	8.76-13	2.09-11	4.81-11	1.14-09	7.37-14	1.71-25	1.90-11	1.70-11
0.	7.77-12	5.07-11	1.20-11	2.90-12	7.01-15	1.02-21	2.62-12	1.42-12
0.	3.21-12	2.99-11	8.40-12	3.66-12	5.62-15	1.19-24	1.48-12	7.79-13
0.	6.27-12	1.73-11	3.78-12	3.68-14	5.42-15	5.44-31	1.09-12	6.25-13
3.14-10	6.41-11	9.46-11	8.21-11	4.15-10	8.98-14	4.11-22		
1.56-10	1.88-11	2.32-11	2.22-11	3.78-10	3.82-14	2.74-22	4.37-11	1.54-11

PHI 90 TO 135 DEGREES

2.39-09	9.58-11	1.99-10	7.41-10	1.11-11	5.40-14	2.26-27	2.51-10	1.45-10
1.15-10	3.71-11	4.13-11	1.36-11	8.72-12	4.88-14	4.55-25	1.46-11	4.79-12
8.15-11	5.66-11	3.20-11	2.41-11	2.15-11	5.01-15	3.65-24	1.28-11	3.60-12
3.19-11	8.16-11	6.87-11	1.13-10	1.97-11	2.82-15	2.09-19	1.33-11	4.17-12
0.	1.64-10	5.94-12	1.83-11	3.62-12	1.93-13	1.34-23	1.05-11	8.46-12
9.59-15	1.41-10	2.51-12	2.11-12	1.45-12	1.51-13	1.98-21	8.62-12	7.47-12
0.	2.01-11	2.63-12	7.35-12	3.22-12	2.51-13	7.31-21	1.53-12	2.27-13
4.81-14	4.16-12	1.47-11	2.57-12	9.86-12	3.46-15	1.55-22	9.94-13	4.71-13
0.	3.72-11	3.41-12	4.88-10	1.71-12	7.42-16	2.69-21	1.41-11	1.18-11
0.	1.19-11	1.46-11	4.96-12	1.39-11	4.31-15	6.69-20	1.57-12	9.95-13
1.96-10	1.22-10	5.78-11	1.82-10	2.00-11	1.57-13	7.55-20		
9.73-11	3.62-11	1.57-11	9.81-11	7.15-12	8.77-14	6.84-20	3.21-11	9.53-12

PHI 135 TO 180 DEGREES

2.14-09	5.39-11	5.08-12	3.88-10	1.76-12	5.44-14	2.05-27	2.06-10	1.14-10
2.32-10	4.82-11	6.58-11	1.51-11	1.44-11	3.62-15	4.86-27	2.67-11	9.74-12
1.00-10	3.83-11	1.97-11	1.67-10	5.14-11	3.20-15	9.73-22	1.86-11	5.96-12
4.48-11	4.46-11	1.98-10	6.51-11	8.91-12	1.86-16	3.95-24	1.55-11	7.27-12
1.14-12	4.55-12	9.50-10	2.77-10	6.14-13	1.20-14	1.98-24	4.12-11	3.39-11
0.	6.54-11	2.52-12	1.78-11	5.55-12	3.03-14	1.14-25	4.53-12	2.54-12
6.14-14	2.19-11	5.18-12	2.20-10	4.91-11	2.77-15	2.99-22	7.53-12	5.23-12
0.	1.82-11	1.50-11	2.10-12	7.48-13	1.82-16	1.08-27	1.69-12	1.00-12
0.	3.65-11	3.30-12	2.80-11	4.00-11	4.29-15	8.64-23	3.53-12	2.05-12
0.	2.99-12	9.70-13	1.23-12	4.23-12	2.48-13	3.06-23	3.09-13	2.20-13
2.11-10	6.70-11	2.53-10	2.20-10	4.37-11	2.88-14	3.75-22		
8.03-11	1.70-11	2.04-10	9.37-11	2.50-11	1.67-14	2.77-22	3.85-11	1.14-11
							3.70-10	4.68-11

AIR SCATTERING 3.07 02 ENERGY 7.00 ANGLE 1.00 DIST. 1.22 03
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	1.89-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	1.96-07	3.02-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	5.39-07	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.	1.07-06	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	4.13-07
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.55-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.43-06
	1.14-07	3.40-08	5.25-08	0.	1.43-07	0.	1.85-07	2.40-07

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	1.20-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	0.	1.25-07	1.92-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	3.43-07	0.	1.51-08	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.	6.79-07	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.63-07
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.62-07
1.80 02	0.	0.	0.	0.	0.	0.	2.71-12	9.13-07
	7.26-08	2.17-08	3.34-08	0.	9.12-08	0.	1.22-07	1.53-07
	1.89-08	2.17-08	3.34-08	0.	9.12-08	0.	1.18-07	7.78-08

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.	1.40-16
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.	3.84-13
1.40 02	0.	0.	0.	0.	0.	0.	2.14-13	3.09-11
1.60 02	0.	0.	0.	0.	0.	0.	5.98-14	3.65-11
1.80 02	0.	0.	0.	0.	0.	2.37-14	5.55-18	1.63-08
	0.	0.	0.	0.	0.	1.43-15	6.73-14	9.97-10
	0.	0.	0.	0.	0.	1.43-15	5.79-14	7.87-10

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.	6.34-17
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.42-15
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.47-14
1.40 02	0.	0.	0.	0.	0.	0.	1.58-13	8.20-12
1.60 02	0.	0.	0.	0.	0.	0.	3.94-12	9.90-10
1.80 02	0.	0.	0.	0.	0.	2.04-09	1.33-12	5.34-09
	0.	0.	0.	0.	0.	1.23-10	8.06-13	4.96-10
	0.	0.	0.	0.	0.	1.23-10	6.87-13	2.35-10

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.	2.77-14	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.40-13
1.60 02	0.	0.	0.	0.	0.	0.	1.81-12	3.17-10
1.80 02	0.	0.	0.	0.	0.	0.	9.58-12	1.70-09
	0.	0.	0.	0.	0.	0.	9.01-13	1.58-10
	0.	0.	0.	0.	0.	0.	5.33-13	1.01-10

070304012575 3346056473 71

AIR SCATTERING 3.07 02 ENERGY 7.00 ANGLE 1.00 DIST. 1.22 03
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.	4.72-06
0.	0.	0.	0.	0.	0.	0.	6.27-07
0.	0.	0.	0.	0.	0.	0.	2.15-07
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.92-07
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	4.13-08
0.	0.	0.	0.	0.	0.	0.	2.55-08
0.	0.	0.	0.	0.	0.	0.	1.43-07
0.	0.	0.	0.	0.	0.	0.	
							5.08-07

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.	4.14-11	8.83-12	2.63-11	3.32-11	1.78-14	5.73-27	3.01-06	7.84-07
7.99-11	3.87-10	4.26-11	1.33-11	2.01-11	8.18-15	2.93-25	3.99-07	2.82-07
3.58-10	6.08-10	4.45-10	5.99-11	8.14-11	2.72-14	1.33-29	1.40-07	1.37-07
7.05-11	4.35-10	2.12-11	2.37-10	6.68-11	1.92-13	1.38-24	3.37-11	2.32-11
2.76-10	6.10-11	6.37-11	1.37-11	1.11-11	8.52-14	1.72-21	2.76-11	1.32-11
6.17-11	7.74-11	3.61-11	5.23-11	2.67-11	2.36-12	4.03-23	1.22-07	1.22-07
1.17-10	2.14-10	1.87-10	1.35-10	1.97-11	2.58-13	2.77-20	2.90-11	1.07-11
4.98-09	5.24-11	6.15-10	1.71-10	7.23-11	2.81-13	2.68-19	2.68-08	2.63-08
1.61-09	9.63-11	1.80-10	3.53-11	1.22-10	3.65-13	3.10-22	1.64-08	1.62-08
5.12-10	2.77-10	3.65-10	3.57-11	1.25-11	6.47-13	5.97-28	9.14-08	3.15-08
1.86-09	5.15-10	4.29-10	2.07-10	1.03-10	7.58-13	8.07-20		
1.38-09	1.80-10	1.85-10	6.80-11	3.65-11	4.30-13	7.36-20	3.25-07	8.03-08

PHI 45 TO 90 DEGREES

0.	3.06-10	1.44-11	4.41-12	1.23-11	9.60-15	5.44-32	1.60-11	1.08-11
0.	3.15-10	1.67-10	3.19-11	3.44-11	4.40-15	1.13-26	2.22-11	7.53-12
1.69-10	2.90-10	1.07-10	4.34-11	3.76-12	1.46-14	8.32-26	3.24-11	1.61-11
7.49-11	4.06-10	3.54-11	5.43-11	3.53-11	7.13-14	1.71-23	2.90-11	1.68-11
6.02-10	1.08-09	4.08-11	6.46-11	5.09-11	2.85-13	2.86-27	1.05-10	9.47-11
4.64-11	1.11-11	1.75-11	1.67-11	7.16-12	1.61-12	6.27-21	5.27-12	2.65-12
2.33-09	1.14-10	3.89-10	3.82-11	1.53-11	3.14-14	1.24-23	2.06-10	1.57-10
2.21-10	5.26-11	4.47-10	1.23-10	3.40-11	2.91-14	3.14-24	4.06-11	1.40-11
5.52-10	4.88-10	4.68-10	1.35-10	2.30-11	2.54-12	6.19-20	9.02-11	2.35-11
7.40-11	4.62-10	1.65-10	1.26-10	3.91-11	1.99-15	2.29-22	1.67-09	1.31-09
1.10-09	6.36-10	4.17-10	1.25-10	4.97-11	8.18-13	1.19-20		
6.50-10	2.19-10	1.51-10	2.43-11	1.66-11	4.18-13	1.08-20	2.36-10	9.67-11

PHI 90 TO 135 DEGREES

1.19-09	2.53-10	2.47-11	2.81-12	1.89-12	8.28-15	2.94-25	1.09-10	6.82-11
9.07-11	7.29-10	2.15-10	1.83-12	6.66-12	5.26-15	2.59-28	5.07-11	2.95-11
3.13-12	2.58-10	1.81-11	1.26-10	5.61-11	6.77-13	2.13-29	1.70-11	9.71-12
7.56-11	1.06-10	1.85-10	1.64-10	4.58-11	1.10-13	9.84-27	2.11-11	9.59-12
4.36-10	9.14-11	2.55-10	6.26-11	9.09-12	3.14-14	3.85-21	4.90-11	3.49-11
4.45-11	8.17-12	2.47-11	2.34-11	6.22-12	6.50-14	1.56-21	5.31-12	2.48-12
2.70-10	3.96-10	1.75-10	6.11-11	1.35-10	7.23-12	8.40-29	5.09-11	2.19-11
4.88-10	1.65-10	1.14-10	1.75-10	7.99-11	1.98-13	9.65-24	5.63-11	2.37-11
5.75-10	7.78-11	1.11-10	6.16-11	2.62-11	6.87-15	1.27-24	1.55-10	9.49-11
3.06-09	2.89-10	7.05-11	1.43-10	2.17-12	5.28-15	1.57-27	1.41-09	7.74-10
6.99-10	4.66-10	2.64-10	1.88-10	1.04-10	2.65-12	9.43-22		
2.27-10	1.27-10	7.09-11	5.92-11	3.84-11	2.38-12	9.39-22	1.80-10	5.15-11

PHI 135 TO 180 DEGREES

8.59-10	2.36-09	7.74-12	1.16-11	1.71-12	1.43-13	1.76-23	1.87-10	1.27-10
2.75-10	2.84-10	5.80-12	8.75-11	3.96-12	3.77-13	8.72-23	3.82-11	2.33-11
8.80-11	1.39-10	3.52-11	1.88-11	1.96-11	3.93-14	3.43-25	1.57-11	7.19-12
4.26-10	4.59-11	7.52-11	1.23-10	4.94-12	2.53-13	8.42-23	4.13-11	2.94-11
2.76-10	2.78-10	6.23-11	3.39-10	3.11-11	2.08-12	4.89-25	4.52-11	2.61-11
1.27-10	7.93-10	6.83-11	5.63-11	8.04-10	4.81-14	1.81-26	6.31-11	3.36-11
2.44-10	1.67-10	2.20-10	1.45-10	1.92-10	9.89-13	2.90-24	4.03-11	1.34-11
1.05-10	1.29-10	1.15-10	2.71-10	4.69-11	2.59-12	2.82-22	2.46-11	7.08-12
1.04-09	1.17-10	8.62-11	6.16-11	2.53-11	1.82-11	1.71-27	1.26-10	7.24-11
1.16-10	1.94-10	3.50-10	6.59-11	1.56-12	9.01-12	6.01-29	2.03-10	1.44-10
6.28-10	5.49-10	1.96-10	2.64-10	2.32-10	5.26-12	1.20-22		
2.11-10	1.85-10	4.23-11	1.10-10	1.46-10	3.92-12	8.09-23	1.08-10	2.36-11
							5.11-07	1.26-07

AIR SCATTERING 3.08 02 ENERGY 7.00 ANGLE 1.50 01 DIST. 1.22 03
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	6.14-09	5.05-08	4.17-08	0.	0.	0.	0.	0.
4.00 01	0.	0.	1.36-09	1.93-08	7.32-09	0.	0.	0.
6.00 01	0.	0.	0.	0.	6.93-09	1.14-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	6.16-09	8.84-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	9.49-09	0.
1.00 02	0.	0.	0.	0.	0.	0.	1.54-08	0.
1.20 02	0.	0.	0.	0.	0.	0.	3.24-09	1.28-08
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.11-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.60-08
1.80 02	0.	0.	0.	0.	0.	0.	0.	6.20-09
	3.70-10	3.05-09	2.75-09	3.35-09	3.11-09	5.04-09	8.26-09	1.47-08

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	3.91-09	3.22-08	2.66-08	0.	0.	0.	0.	0.
4.00 01	0.	0.	8.66-10	1.23-08	4.66-09	0.	0.	0.
6.00 01	0.	0.	0.	0.	4.41-09	7.26-09	0.	9.89-10
8.00 01	0.	0.	0.	0.	0.	3.92-09	5.63-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	6.04-09	0.
1.00 02	0.	0.	0.	0.	0.	0.	9.78-09	0.
1.20 02	0.	0.	0.	0.	0.	0.	2.06-09	8.17-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.38-08
1.60 02	0.	0.	0.	0.	0.	0.	9.66-12	2.00-08
1.80 02	0.	0.	0.	0.	0.	2.31-18	1.83-15	5.52-09
	2.36-10	1.94-09	1.75-09	2.13-09	1.98-09	3.21-09	5.26-09	1.04-08
	1.05-10	4.22-10	5.04-10	7.09-10	8.86-10	1.21-09	1.62-09	1.59-09

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.	1.60-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.42-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.73-09
1.40 02	0.	0.	0.	0.	0.	2.53-14	0.	1.44-11
1.60 02	0.	0.	0.	0.	0.	0.	8.32-12	1.16-10
1.80 02	0.	0.	0.	0.	0.	8.72-15	2.34-11	1.34-10
	0.	0.	0.	0.	0.	7.25-15	2.86-12	1.25-09
	0.	0.	0.	0.	0.	6.75-15	1.94-12	1.21-09

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.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.02-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.08-12
1.40 02	0.	0.	0.	0.	0.	0.	2.01-11	2.58-12
1.60 02	0.	0.	0.	0.	0.	0.	1.05-12	5.45-10
1.80 02	0.	0.	0.	0.	0.	2.48-14	4.17-12	1.51-10
	0.	0.	0.	0.	0.	1.49-15	5.79-12	1.05-10
	0.	0.	0.	0.	0.	1.49-15	5.34-12	9.09-11

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.	8.48-12	0.	1.87-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.17-11
1.80 02	0.	0.	0.	0.	0.	0.	1.58-12	3.55-12
	0.	0.	0.	0.	0.	2.25-12	9.55-14	7.22-12
	0.	0.	0.	0.	0.	2.25-12	9.55-14	3.79-12

15566131664 1 0424776520 15

AIR SCATTERING 3.08 02 ENERGY 7.00 ANGLE 1.50 01 DIST. 1.22 03
2.90 01 1.76 03 0. 0. 4.85 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.	1.37-07
0.	0.	0.	0.	0.	0.	0.	1.79-08
0.	0.	0.	0.	0.	0.	0.	6.19-09
0.	0.	0.	0.	0.	0.	0.	3.44-09
0.	0.	0.	0.	0.	0.	0.	1.71-09
0.	0.	0.	0.	0.	0.	0.	2.77-09
0.	0.	0.	0.	0.	0.	0.	1.87-09
0.	0.	0.	0.	0.	0.	0.	2.11-09
0.	0.	0.	0.	0.	0.	0.	2.60-09
0.	0.	0.	0.	0.	0.	0.	6.20-10
0.	0.	0.	0.	0.	0.	0.	1.66-08

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.	1.54-11	6.31-11	8.94-12	5.90-12	2.16-16	1.02-25	8.72-08	1.43-08
5.72-10	9.55-10	4.38-11	1.36-10	2.50-12	3.49-14	2.37-24	1.15-08	3.29-09
3.90-11	3.57-11	6.69-11	1.81-09	2.78-11	5.77-14	7.73-24	4.08-09	1.49-09
5.80-10	3.74-11	4.92-11	9.77-11	2.08-11	3.59-13	3.05-26	2.24-09	8.06-10
4.81-11	4.56-11	1.29-10	8.00-11	1.07-12	2.07-14	2.97-20	1.19-09	7.69-10
1.10-10	3.93-10	3.80-10	1.02-10	1.34-10	2.71-14	1.88-20	1.81-09	8.82-10
1.96-09	2.43-10	2.66-10	6.44-11	5.92-11	2.40-12	6.65-28	1.37-09	4.37-10
2.65-10	2.34-10	1.58-10	8.12-11	1.34-11	5.76-14	1.34-27	1.42-09	3.40-10
3.52-10	2.43-10	1.46-10	7.44-11	2.56-11	1.21-12	1.18-22	2.05-09	3.19-10
1.70-10	1.84-10	1.06-10	9.32-11	3.88-12	5.00-15	2.30-23	5.80-10	6.35-11
1.11-09	4.60-10	2.94-10	6.30-10	6.60-11	1.15-12	8.46-21		
2.47-10	1.42-10	5.85-11	4.54-10	2.99-11	7.79-13	8.43-21	1.08-08	1.17-09

PHI 45 TO 90 DEGREES

0.	3.02-11	7.96-11	1.92-11	3.18-12	3.18-13	3.72-33	4.48-12	2.05-12
2.26-10	7.68-11	1.98-11	1.73-10	4.78-12	2.07-14	1.25-22	2.61-11	1.83-11
9.24-11	2.27-10	3.08-10	8.73-11	1.05-11	1.34-13	1.24-24	3.05-11	1.85-11
1.55-11	6.34-11	4.84-11	8.21-11	3.54-11	6.22-13	2.32-26	8.07-12	2.16-12
3.90-11	5.70-11	6.69-11	5.09-11	9.83-11	2.73-13	1.95-27	1.06-11	2.74-12
1.45-10	1.21-10	1.61-10	5.48-09	6.64-11	3.40-14	9.59-25	1.35-10	1.09-10
1.18-10	1.76-10	1.19-09	1.97-10	3.19-11	1.20-14	4.15-22	4.33-10	3.73-10
8.09-10	4.41-11	1.23-10	8.55-11	1.30-11	5.30-14	3.85-24	7.42-11	5.38-11
4.78-10	5.43-10	1.64-10	4.70-11	9.76-12	5.41-14	1.38-23	8.48-11	3.06-11
2.31-10	5.66-11	4.35-11	8.93-11	2.14-11	8.99-16	3.21-25	4.24-11	1.59-11
4.52-10	2.94-10	5.97-10	1.14-09	6.08-11	3.42-13	1.61-22		
1.90-10	7.62-11	2.77-10	9.42-10	2.66-11	2.00-13	1.37-22	2.19-10	1.24-10

PHI 90 TO 135 DEGREES

0.	8.10-12	9.61-11	1.80-10	1.20-12	8.74-15	2.33-31	7.09-12	3.72-12
2.60-11	3.95-11	3.14-11	1.63-11	9.48-13	8.22-14	3.31-23	5.40-12	2.47-12
2.67-11	1.87-09	5.42-11	3.10-11	1.64-11	3.62-14	6.64-25	9.84-11	8.90-11
8.04-11	8.87-11	5.29-11	3.35-11	1.34-11	1.30-12	3.81-22	1.34-11	4.98-12
1.73-11	3.16-11	7.74-11	1.95-10	2.63-12	2.74-14	3.15-26	8.89-12	3.32-12
9.90-11	1.19-08	3.17-11	2.00-11	5.36-11	3.72-14	1.51-22	6.03-10	5.92-10
1.74-10	1.09-10	3.79-11	7.50-11	8.55-12	9.47-15	2.50-23	2.23-11	9.32-12
8.12-11	3.73-10	1.31-10	2.13-10	1.53-11	1.35-12	1.76-25	3.77-11	1.50-11
4.06-10	1.43-10	2.51-10	4.11-11	1.65-11	7.84-13	6.03-21	1.03-10	5.53-11
1.58-10	1.12-10	4.64-11	3.56-11	2.03-11	5.94-15	2.69-22	3.65-11	1.54-11
2.15-10	2.77-09	1.56-10	1.60-10	2.97-11	9.56-13	1.23-21		
5.65-11	2.11-09	2.91-11	5.64-11	1.18-11	5.72-13	1.05-21	1.76-10	1.06-10

PHI 135 TO 180 DEGREES

0.	2.02-10	7.35-11	7.64-12	8.99-12	2.09-14	6.06-29	1.27-11	1.00-11
3.15-10	1.47-10	1.86-11	6.44-11	5.80-11	6.92-14	2.00-27	3.52-11	3.03-11
1.07-11	2.56-10	6.70-11	2.96-11	2.03-11	7.55-13	3.07-27	1.67-11	5.61-12
4.68-12	1.40-10	4.18-10	1.54-10	2.88-11	7.40-14	6.80-24	2.42-11	1.71-11
9.89-11	3.88-11	7.62-11	2.68-11	3.59-11	4.99-14	3.13-22	1.33-11	5.23-12
9.95-12	6.04-10	1.79-11	2.84-11	1.62-11	1.30-13	2.43-28	3.24-11	3.00-11
7.47-11	7.88-11	5.85-11	4.60-11	1.10-09	4.45-13	2.41-21	2.70-11	1.54-11
1.06-09	3.43-11	8.45-11	1.41-10	9.36-12	5.55-14	2.48-24	9.63-11	7.36-11
1.42-10	1.47-10	5.91-10	6.28-11	1.33-10	4.14-13	2.36-26	4.18-11	1.93-11
1.14-09	5.11-10	6.02-10	3.91-11	4.64-11	1.65-14	5.50-25	1.38-10	9.64-11
4.77-10	3.54-10	3.59-10	1.45-10	4.23-10	5.02-13	8.45-22		
2.55-10	1.21-10	1.54-10	4.25-11	3.55-10	2.15-13	6.93-22	7.72-11	2.35-11
							1.77-08	1.89-09

AIR SCATTERING 3.09 02 ENERGY 7.00 ANGLE 3.00 01 DIST. 1.22 03
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.	1.21-08	2.41-08	2.78-09	0.	0.	0.
4.00 01	0.	0.	0.	0.	1.02-08	4.61-09	0.	0.
6.00 01	0.	0.	0.	0.	0.	6.05-09	1.96-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	7.18-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	6.08-09	0.
1.00 02	0.	0.	0.	0.	0.	0.	7.33-10	7.83-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	8.49-09
1.40 02	0.	0.	0.	0.	0.	0.	0.	8.15-09
1.60 02	0.	0.	0.	0.	0.	0.	0.	2.34-09
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	7.32-10	1.46-09	1.95-09	2.41-09	4.05-09	6.71-09

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.	7.72-09	1.54-08	1.77-09	0.	0.	0.
4.00 01	0.	0.	0.	0.	6.52-09	2.94-09	0.	0.
6.00 01	0.	0.	0.	0.	0.	3.85-09	1.25-09	3.60-10
8.00 01	0.	0.	0.	0.	0.	0.	4.57-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	3.87-09	0.
1.00 02	0.	0.	0.	0.	0.	0.	4.67-10	4.98-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	5.41-09
1.40 02	0.	0.	0.	0.	0.	0.	3.92-14	5.36-09
1.60 02	0.	0.	0.	0.	0.	1.99-22	9.94-13	2.45-09
1.80 02	0.	0.	0.	0.	0.	0.	1.15-12	2.28-11
	0.	0.	4.86-10	9.26-10	1.24-09	1.53-09	2.58-09	4.58-09
	0.	0.	1.34-10	2.38-10	3.57-10	4.25-10	5.73-10	5.11-10

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.	7.15-10
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.	1.37-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.51-12
1.60 02	0.	0.	0.	0.	0.	0.	1.42-12	1.21-11
1.80 02	0.	0.	0.	0.	0.	0.	2.88-12	4.57-12
	0.	0.	0.	0.	0.	0.	4.20-13	2.41-10
	0.	0.	0.	0.	0.	0.	2.74-13	2.33-10

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.	2.73-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.39-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.72-12
	0.	0.	0.	0.	0.	0.	0.	8.45-12
	0.	0.	0.	0.	0.	0.	0.	5.10-12

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.	6.02-14	6.89-14
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.57-14
	0.	0.	0.	0.	0.	0.	1.05-14	1.35-14
	0.	0.	0.	0.	0.	0.	7.71-15	1.21-14

341370240145 322521034531

AIR SCATTERING 3.09 02 ENERGY 7.00 ANGLE 3.00 01 DIST. 1.22 03
2.70 01 1.77 03 0. 4.77 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.	3.13-08
0.	0.	0.	0.	0.	0.	0.	5.48-09
0.	0.	0.	0.	0.	0.	0.	2.17-09
0.	0.	0.	0.	0.	0.	0.	1.29-09
0.	0.	0.	0.	0.	0.	0.	1.09-09
0.	0.	0.	0.	0.	0.	0.	9.15-10
0.	0.	0.	0.	0.	0.	0.	8.49-10
0.	0.	0.	0.	0.	0.	0.	8.15-10
0.	0.	0.	0.	0.	0.	0.	2.34-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							4.72-09

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		
1.87-10	9.55-10	2.20-10	1.69-11	9.27-12	3.74-14	1.01-32	2.00-08	3.75-09
7.54-10	4.25-10	7.92-12	3.35-11	3.83-11	3.59-14	1.44-22	3.57-09	9.15-10
5.60-10	9.23-11	1.55-10	6.66-11	2.74-12	4.63-14	6.71-26	1.47-09	4.20-10
8.09-10	1.07-10	8.35-11	8.60-11	5.18-11	1.05-14	9.48-24	8.98-10	2.53-10
2.94-10	5.14-10	9.80-11	2.20-11	3.88-11	9.80-14	3.10-22	7.50-10	2.65-10
8.00-10	4.32-10	1.87-10	1.21-10	3.74-11	4.46-13	6.38-28	6.77-10	2.08-10
2.03-10	1.01-10	1.22-10	5.53-11	1.13-11	3.60-13	1.74-23	5.67-10	1.08-10
6.36-10	3.46-10	2.91-10	4.24-11	2.07-11	2.54-13	3.30-24	6.15-10	6.28-11
3.35-10	1.86-10	1.89-10	1.35-10	1.97-11	7.26-15	3.34-24	2.90-10	3.72-11
2.28-10	5.15-10	1.08-10	6.96-10	5.85-11	3.55-14	1.56-30	6.47-11	2.64-11
1.05-09	5.43-10	2.89-10	1.72-10	5.42-11	3.07-13	8.90-23		
2.43-10	1.40-10	4.83-11	4.26-11	2.13-11	1.31-13	5.96-23	3.16-09	3.15-10

PHI 45 TO 90 DEGREES

7.51-12	1.25-09	1.16-11	2.21-11	2.49-12	2.47-14	1.37-25	6.42-11	4.76-11
2.54-11	1.08-10	2.64-11	2.04-10	7.21-12	5.37-15	1.67-24	1.25-11	4.99-12
8.99-11	1.94-10	7.68-11	2.14-10	6.04-12	1.35-13	1.63-28	2.37-11	9.02-12
5.93-10	1.95-10	5.23-11	4.18-11	1.62-12	3.48-14	1.52-29	1.31-10	7.64-11
1.29-10	3.46-11	2.36-10	7.45-11	5.22-12	5.10-12	1.61-22	2.12-11	7.08-12
9.94-11	1.64-10	2.96-10	3.47-11	2.22-11	1.24-14	5.31-24	2.66-11	1.09-11
1.53-10	1.41-10	8.12-10	8.07-10	4.16-11	1.20-12	3.52-26	6.33-11	3.43-11
4.07-10	1.10-10	3.08-10	9.05-11	3.34-11	1.19-13	6.74-23	5.06-11	1.65-11
1.71-10	2.75-11	6.10-11	3.15-11	7.43-11	2.16-10	4.78-23	2.22-11	9.45-12
2.03-10	2.09-09	5.54-11	6.98-11	3.04-10	9.84-15	7.50-26	1.29-10	1.02-10
4.62-10	4.50-10	4.96-10	4.23-10	6.67-11	3.89-11	5.54-23		
1.26-10	1.50-10	2.67-10	1.86-10	2.16-11	3.79-11	3.39-23	1.09-10	2.90-11

PHI 90 TO 135 DEGREES

0.	3.26-10	1.52-10	1.15-11	2.05-11	3.04-14	1.11-28	2.17-11	1.12-11
2.16-11	7.62-11	5.28-11	3.23-10	6.86-11	3.27-12	2.00-22	1.46-11	5.07-12
1.99-11	4.04-11	9.94-12	4.05-11	1.03-11	4.43-14	1.47-24	4.87-12	2.03-12
9.71-13	3.04-10	2.61-10	3.46-11	5.34-12	2.27-14	2.78-27	2.44-11	1.11-11
6.31-10	3.68-11	3.52-11	5.65-11	7.20-12	2.91-13	1.11-32	5.47-11	3.76-11
4.20-12	6.70-11	4.23-10	9.62-11	1.93-11	1.59-13	1.37-21	1.94-11	8.38-12
7.96-10	1.46-09	4.18-11	5.28-11	5.77-10	1.21-14	1.22-20	1.46-10	8.78-11
4.60-10	6.13-10	6.19-11	1.95-10	1.84-11	3.33-13	1.16-23	7.39-11	2.96-11
7.58-11	7.03-10	5.12-10	9.11-11	9.24-12	2.02-14	5.39-26	6.39-11	2.78-11
2.96-10	6.51-10	1.29-09	2.04-11	2.25-12	2.25-14	1.60-30	9.82-11	4.26-11
5.33-10	9.60-10	3.83-10	1.91-10	2.17-10	7.64-13	4.26-21		
2.50-10	4.70-10	1.26-10	8.86-11	1.86-10	5.66-13	4.22-21	1.10-10	3.18-11

PHI 135 TO 180 DEGREES

0.	8.05-10	1.08-10	7.52-11	2.63-12	2.13-14	3.19-30	4.52-11	4.02-11
0.	5.15-10	2.42-11	1.81-11	4.16-12	1.55-14	3.90-27	2.69-11	1.85-11
7.50-12	4.05-10	1.89-11	8.14-11	9.85-12	6.48-14	2.70-21	2.32-11	1.72-11
1.81-11	4.62-10	2.80-10	2.78-10	6.46-11	4.02-12	6.08-24	3.99-11	2.36-11
3.87-11	1.34-10	1.68-10	7.72-12	1.14-10	5.79-14	7.65-26	1.68-11	8.53-12
5.13-11	5.87-11	2.35-10	1.53-11	1.46-12	7.54-13	5.59-26	1.49-11	8.24-12
4.24-11	4.34-10	4.38-11	2.37-10	2.40-11	8.57-14	4.68-26	3.16-11	1.60-11
2.60-11	7.75-11	2.57-10	1.25-10	1.32-11	7.32-13	6.08-25	1.69-11	6.84-12
3.70-11	1.07-10	3.46-10	7.45-11	3.80-11	4.17-14	3.93-26	2.14-11	1.37-11
1.87-10	9.42-12	1.93-11	2.03-11	2.73-12	1.76-13	2.42-28	1.65-11	1.11-11
6.20-11	6.11-10	3.21-10	2.49-10	6.28-11	1.72-12	7.19-22		
1.97-11	2.10-10	1.30-10	9.17-11	4.24-11	1.33-12	7.19-22	5.16-11	1.23-11
							5.40-09	5.19-10

AIR SCATTERING 3.10 02 ENERGY 7.00 ANGLE 6.00 01 DIST. 1.22 03
1.25-03 1.07-02 3.20 01 1.97-06

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.	4.14-09	1.71-08	0.	0.
4.00 01	0.	0.	0.	0.	0.	1.84-09	5.68-09	0.
6.00 01	0.	0.	0.	0.	0.	0.	4.22-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	2.46-10	4.66-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.93-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.34-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.69-09
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.	2.49-10	1.35-09	2.19-09	3.33-09

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.	2.63-09	1.09-08	0.	0.
4.00 01	0.	0.	0.	0.	0.	1.17-09	3.62-09	3.87-10
6.00 01	0.	0.	0.	0.	0.	0.	2.68-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	1.57-10	3.77-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.50-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.27-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.76-09
1.40 02	0.	0.	0.	0.	0.	0.	1.20-13	1.96-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	9.80-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	3.87-13
	0.	0.	0.	0.	1.59-10	8.62-10	1.39-09	2.94-09
	0.	0.	0.	0.	7.09-11	1.79-10	2.36-10	4.08-10

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.	4.06-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	9.98-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	8.17-16
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.57-12
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.75-13
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.31-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	6.33-12
	0.	0.	0.	0.	0.	0.	0.	7.20-11
	0.	0.	0.	0.	0.	0.	0.	7.05-11

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.	4.62-14
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.	1.23-14
	0.	0.	0.	0.	0.	0.	0.	1.23-14

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.

166454607625 2343100665 45

AIR SCATTERING 3.10 02 ENERGY 7.00 ANGLE 6.00 01 DIST. 1.22 03
2.70 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.	6.80-09
0.	0.	0.	0.	0.	0.	0.	1.57-09
0.	0.	0.	0.	0.	0.	0.	7.59-10
0.	0.	0.	0.	0.	0.	0.	5.11-10
0.	0.	0.	0.	0.	0.	0.	3.93-10
0.	0.	0.	0.	0.	0.	0.	3.34-10
0.	0.	0.	0.	0.	0.	0.	1.69-10
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.	
							1.23-09

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		
5.24-10	1.44-10	4.46-11	9.51-11	1.59-13	2.73-17	3.20-34	4.38-09	9.20-10
2.90-10	9.57-11	1.39-10	1.21-10	5.20-12	1.92-12	7.22-25	1.08-09	2.47-10
3.97-10	2.81-10	1.13-10	4.84-11	1.23-10	3.49-13	3.97-23	5.35-10	1.10-10
5.61-10	8.49-11	1.31-10	8.51-11	1.01-11	2.25-13	1.80-25	4.60-10	1.07-10
5.46-10	1.07-09	3.79-11	1.53-10	7.85-12	8.65-14	5.58-27	3.52-10	6.96-11
3.13-10	9.37-11	2.64-10	8.23-11	3.73-12	9.59-13	2.25-23	3.67-10	1.09-10
2.49-10	3.36-10	1.50-10	7.50-11	1.51-11	2.79-13	1.68-21	2.19-10	2.66-11
4.73-10	2.04-10	1.89-10	7.80-11	2.12-11	2.86-13	1.46-20	7.56-11	1.86-11
9.30-11	7.38-11	1.53-10	2.64-11	7.51-12	1.35-14	4.80-23	2.64-11	1.01-11
4.44-11	3.22-11	1.93-10	1.77-10	4.14-12	1.63-13	3.95-23	1.50-11	6.50-12
7.46-10	5.08-10	2.89-10	1.89-10	5.10-11	8.61-13	4.45-21		
1.24-10	2.02-10	5.32-11	3.19-11	2.39-11	4.33-13	3.91-21	9.65-10	9.10-11

PHI 45 TO 90 DEGREES

5.40-10	3.00-11	3.51-11	2.35-11	3.35-12	1.57-15	0.	4.64-11	4.32-11
2.73-10	6.21-11	4.38-11	2.51-10	1.13-10	7.44-13	1.34-25	7.35-11	4.60-11
8.82-11	1.32-11	8.53-11	8.15-11	1.11-10	1.42-12	9.13-26	1.13-11	3.42-12
1.87-10	1.35-10	5.87-10	7.26-10	6.12-12	4.76-13	1.13-24	5.52-11	2.95-11
1.23-10	2.49-10	2.52-10	8.69-11	3.54-10	2.01-13	1.19-26	3.67-11	1.31-11
1.82-10	1.01-10	5.06-10	6.27-10	1.80-10	1.17-13	2.72-25	5.07-11	1.91-11
2.84-10	7.23-11	3.19-10	5.85-11	4.38-11	6.88-13	8.58-21	3.85-11	1.51-11
7.44-11	1.41-10	3.74-10	9.24-11	2.68-11	6.00-13	1.22-24	2.72-11	7.33-12
9.31-11	6.42-11	3.37-09	1.01-10	3.47-11	6.99-13	7.83-25	1.21-10	1.06-10
1.86-11	1.30-10	4.29-11	5.01-11	1.23-11	7.08-15	2.76-28	1.12-11	5.56-12
3.42-10	2.02-10	1.14-09	4.92-10	1.73-10	1.22-12	3.11-21		
8.93-11	4.06-11	6.06-10	2.40-10	6.88-11	6.26-13	2.95-21	9.32-11	2.30-11

PHI 90 TO 135 DEGREES

0.	1.15-10	4.22-12	1.17-10	2.47-11	4.67-13	7.44-31	8.53-12	3.87-12
7.07-11	1.62-11	3.09-10	2.85-10	2.07-10	3.66-13	2.68-22	2.48-11	9.79-12
1.96-12	1.29-10	3.63-10	2.01-11	3.31-10	4.38-16	3.39-22	2.29-11	1.28-11
1.87-11	2.21-10	5.02-11	6.38-11	7.18-12	7.38-14	2.65-24	1.55-11	8.14-12
3.58-11	3.56-10	6.60-11	3.40-10	3.74-11	1.82-13	5.50-21	3.01-11	1.36-11
3.30-11	1.04-10	2.29-10	2.71-10	1.11-10	2.10-14	5.52-22	2.20-11	8.73-12
1.63-10	5.16-11	2.98-11	1.99-11	5.78-12	1.47-14	3.66-21	1.70-11	5.78-12
1.05-10	1.14-10	1.34-10	1.79-09	1.23-11	8.07-12	2.31-22	5.44-11	3.45-11
1.42-10	7.41-11	8.31-11	2.24-10	3.05-12	1.40-13	1.35-22	2.23-11	1.05-11
4.13-12	6.50-10	5.51-11	5.17-11	1.12-11	8.12-13	2.02-24	3.58-11	3.07-11
1.37-10	2.95-10	2.81-10	7.13-10	1.60-10	2.38-12	2.47-21		
3.71-11	8.89-11	7.97-11	4.67-10	1.11-10	2.18-12	1.58-21	5.11-11	1.18-11

PHI 135 TO 180 DEGREES

0.	3.35-11	1.21-12	1.89-10	2.33-11	3.21-13	6.95-31	5.40-12	3.14-12
8.96-14	7.40-11	1.90-12	1.99-10	4.72-11	9.76-13	3.46-25	8.37-12	4.14-12
0.	9.86-11	2.23-11	9.78-11	6.63-11	4.59-15	9.63-27	8.46-12	3.28-12
0.	2.03-10	1.00-10	1.15-10	8.49-12	9.99-14	7.92-23	1.58-11	6.70-12
0.	2.00-11	4.94-11	9.93-11	2.25-10	1.76-14	5.39-23	7.49-12	3.69-12
4.99-13	3.00-11	1.98-11	9.49-12	1.57-11	1.41-15	8.15-28	2.56-12	1.02-12
8.33-12	8.65-11	1.22-10	3.67-10	8.60-12	2.52-12	3.59-28	1.64-11	7.08-12
9.53-11	4.85-11	1.88-10	1.45-10	1.32-11	1.81-13	6.48-26	1.91-11	6.94-12
6.55-11	9.95-12	5.35-11	8.43-10	8.81-12	6.03-13	1.13-24	2.44-11	1.44-11
1.38-11	9.85-12	7.02-11	1.12-10	6.59-12	5.28-14	1.53-24	6.17-12	2.85-12
4.04-11	1.60-10	1.54-10	4.39-10	8.00-11	1.20-12	3.56-23		
1.61-11	4.61-11	4.46-11	1.76-10	3.95-11	6.73-13	2.50-23	2.60-11	5.13-12
							1.78-09	1.65-10

AIR SCATTERING 3.11 02 ENERGY 7.00 ANGLE 9.00 01 DIST. 1.22 03
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.	1.86-08	0.
4.00 01	0.	0.	0.	0.	0.	0.	2.91-09	3.59-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	4.70-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.51-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.83-10
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.	1.63-09	2.78-09

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.	1.19-08	7.37-09
4.00 01	0.	0.	0.	0.	0.	0.	2.20-09	2.29-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.57-09
8.00 01	0.	0.	0.	0.	0.	0.	3.25-14	2.61-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.23-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.40-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.12-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.16-13
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.	1.10-09	2.89-09
	0.	0.	0.	0.	0.	0.	1.86-10	5.00-10

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.	7.90-13
1.20 02	0.	0.	0.	0.	0.	0.	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.20-12
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.	0.	4.57-13
	0.	0.	0.	0.	0.	0.	0.	3.47-13

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.	4.38-13	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.	8.58-14
	0.	0.	0.	0.	0.	0.	1.43-13	5.18-15
	0.	0.	0.	0.	0.	0.	1.43-13	5.17-15

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.	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.

70173123511 216414172561

AIR SCATTERING 3.11 02 ENERGY 7.00 ANGLE 9.00 01 DIST. 1.22 03
3.10 01 1.76 03 0. 0. 4.77 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.	3.36-09
0.	0.	0.	0.	0.	0.	0.	8.83-10
0.	0.	0.	0.	0.	0.	0.	4.70-10
0.	0.	0.	0.	0.	0.	0.	2.51-10
0.	0.	0.	0.	0.	0.	0.	4.83-11
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.	
							5.71-10

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		
5.00-10	6.79-12	3.47-12	8.29-11	1.61-10	1.44-14	6.01-25	2.92-09	8.17-10
5.51-10	8.70-11	6.04-11	9.73-11	5.43-11	5.00-12	5.51-29	6.77-10	1.34-10
5.73-10	2.39-10	1.24-10	5.06-11	5.86-11	8.08-14	1.06-24	4.21-10	5.85-11
5.72-10	1.19-10	1.92-10	6.38-11	4.44-11	6.80-13	1.59-24	3.20-10	4.94-11
1.13-10	1.49-10	3.51-10	1.89-10	1.68-11	8.91-13	5.49-29	1.55-10	5.62-11
6.16-11	1.31-10	1.07-10	5.46-11	3.96-10	5.25-14	8.10-23	3.52-11	9.60-12
8.50-11	8.82-11	1.68-10	8.31-11	1.36-11	1.57-13	5.87-23	2.25-11	3.95-12
2.04-10	9.74-11	6.23-11	4.47-11	5.06-12	2.82-14	2.33-24	2.42-11	1.15-11
3.70-11	1.85-11	4.02-10	1.66-10	3.39-11	1.10-12	9.69-28	2.05-11	1.00-11
3.39-10	4.01-12	1.61-11	7.14-13	2.56-12	9.51-13	1.86-29	2.79-11	2.56-11
6.04-10	2.25-10	3.28-10	1.66-10	1.33-10	1.58-12	3.47-23		
1.06-10	2.95-11	7.85-11	3.57-11	7.84-11	9.34-13	1.90-23	5.62-10	6.40-11

PHI 45 TO 90 DEGREES

6.37-10	2.02-11	3.54-11	6.35-11	1.52-12	2.04-15	2.61-26	5.44-11	4.91-11
6.38-10	1.07-10	3.04-11	1.44-11	1.53-11	4.89-15	2.89-25	5.79-11	3.68-11
3.65-11	1.53-10	2.45-10	1.15-10	7.12-11	1.49-13	2.27-25	2.16-11	7.81-12
4.60-10	3.45-10	4.50-11	5.28-11	1.31-11	8.55-14	9.23-24	5.67-11	2.10-11
1.53-10	4.50-11	7.58-11	3.27-11	2.59-11	1.34-12	2.04-20	1.79-11	8.85-12
7.79-11	1.83-11	3.56-11	4.24-11	3.09-12	6.82-14	3.01-28	9.25-12	3.24-12
5.14-11	5.14-11	1.01-10	1.98-11	7.73-12	3.52-14	8.41-22	1.04-11	2.99-12
3.67-11	1.81-10	5.31-10	9.98-11	1.07-11	1.57-14	1.62-22	3.12-11	1.56-11
6.38-11	5.36-11	4.67-11	1.04-10	2.48-12	1.97-13	2.13-21	1.14-11	3.93-12
5.23-11	1.39-10	3.18-11	5.42-11	4.62-12	3.62-16	9.87-30	1.33-11	7.60-12
3.90-10	2.66-10	2.91-10	1.22-10	3.70-11	3.62-13	4.23-21		
1.09-10	1.11-10	1.26-10	3.23-11	1.29-11	1.79-13	3.57-21	5.68-11	1.67-11

PHI 90 TO 135 DEGREES

2.72-09	6.87-11	2.27-11	3.73-11	7.64-10	2.04-15	3.29-26	2.33-10	2.14-10
7.50-11	3.79-10	3.27-11	4.01-11	1.94-11	2.64-15	9.64-24	2.70-11	1.58-11
3.34-11	8.43-11	3.08-11	1.13-11	5.45-12	1.81-14	1.58-23	8.17-12	4.00-12
5.90-11	5.30-11	4.08-11	5.16-11	4.28-11	2.78-14	2.02-23	1.03-11	3.71-12
1.63-11	5.68-11	4.47-12	1.41-11	3.82-12	8.93-15	1.88-20	4.62-12	2.13-12
3.80-10	1.03-10	5.19-11	2.63-11	1.66-11	2.05-14	2.29-26	3.79-11	2.92-11
3.34-11	4.01-11	2.32-11	8.20-11	1.80-11	2.50-14	3.25-24	7.37-12	2.93-12
3.93-12	6.30-11	1.56-10	8.21-11	3.84-11	1.34-13	2.65-24	1.06-11	4.36-12
3.87-12	1.97-11	2.54-10	5.32-11	9.40-12	4.95-13	2.20-24	1.06-11	5.11-12
6.64-11	5.13-11	1.44-11	9.32-12	6.55-13	6.96-16	6.13-33	8.54-12	4.61-12
2.91-10	1.74-10	1.33-10	9.45-11	8.62-11	1.49-13	3.28-21		
1.74-10	5.81-11	5.88-11	2.36-11	4.79-11	8.33-14	3.26-21	3.92-11	1.65-11

PHI 135 TO 180 DEGREES

1.26-10	4.21-10	2.40-11	2.60-10	2.45-11	2.98-14	6.89-29	3.74-11	1.89-11
9.85-13	1.16-10	5.16-11	6.11-11	4.21-12	6.63-13	8.35-30	8.79-12	3.81-12
6.92-12	9.72-11	1.43-10	3.31-11	6.59-12	8.06-12	2.80-24	1.08-11	4.62-12
5.05-15	1.51-10	9.12-11	2.08-11	1.53-10	4.96-11	6.80-25	1.34-11	5.04-12
1.70-12	1.47-11	6.72-11	2.15-11	4.26-11	4.35-14	7.33-24	4.01-12	1.89-12
0.	2.32-11	1.14-10	2.50-11	5.78-12	1.59-14	1.16-23	5.36-12	2.26-12
1.10-11	2.32-11	4.82-10	1.92-11	4.37-12	5.01-15	8.55-23	1.79-11	1.08-11
3.65-12	4.46-10	1.20-10	6.40-10	1.57-11	1.81-12	7.64-28	3.94-11	2.05-11
2.65-13	3.06-11	3.84-11	5.97-12	3.81-11	2.49-13	1.61-28	3.33-12	1.49-12
1.13-09	1.79-09	1.00-11	1.37-10	3.93-13	1.06-15	1.07-26	1.83-10	1.27-10
8.25-11	3.67-10	3.06-10	2.36-10	7.47-11	1.91-11	3.22-23		
6.84-11	1.41-10	1.20-10	1.48-10	4.50-11	1.82-11	2.80-23	4.06-11	1.10-11
							1.10-09	1.19-10

AIR SCATTERING 3.12 02 ENERGY 7.00 ANGLE 1.35 02 DIST. 1.22 03
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.	3.00-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	6.85-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.15-10
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.	3.03-09

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.	0.	1.91-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	6.90-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.11-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.30-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.15-14
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	4.27-20
1.40 02	0.	0.	0.	0.	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.67-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0	0.	0.	0.	0.	0.	3.02-09
	0.	0.	0.	0.	0.	0.	0.	5.42-10

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.	4.44-13
6.00 01	0.	0.	0.	0.	0.	0.	0.	8.24-13
8.00 01	0.	0.	0.	0.	0.	0.	0.	4.01-13
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	6.18-12
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.	1.59-12
	0.	0.	0.	0.	0.	0.	0.	1.10-12

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.	6.54-12
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	7.42-12
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.	4.79-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.04-12
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.	0.	4.26-12
	0.	0.	0.	0.	0.	0.	0.	2.73-12

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.

234310066545 202667753301

AIR SCATTERING 3.12 02 ENERGY 7.00 ANGLE 1.35 02 DIST. 1.22 03
2.60 01 1.77 03 0. 0. 4.71 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.	3.00-09
0.	0.	0.	0.	0.	0.	0.	8.85-10
0.	0.	0.	0.	0.	0.	0.	1.15-11
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.	
							3.03-10

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		
2.00-10	5.94-10	8.84-11	1.40-10	8.87-12	5.87-14	7.74-30	1.96-09	2.83-10
3.26-10	2.22-10	1.32-10	9.45-11	5.64-11	7.06-12	2.50-25	7.35-10	1.24-10
2.80-10	5.64-10	1.40-10	3.46-10	8.27-11	2.52-12	3.96-24	2.74-10	1.71-10
1.85-10	9.32-11	3.31-11	1.08-10	2.59-11	1.54-13	6.11-24	5.61-11	2.44-11
1.26-10	1.33-10	5.81-10	1.28-10	1.27-10	2.44-14	6.06-29	3.95-11	1.83-11
3.82-11	2.76-11	3.41-11	1.18-09	1.25-11	1.84-13	2.75-27	2.93-11	1.72-11
4.18-11	4.38-11	1.35-10	1.07-11	4.86-12	6.91-15	1.41-22	1.01-11	2.67-12
6.61-12	6.24-11	1.84-11	2.56-10	8.42-11	3.00-14	1.61-24	1.05-11	4.95-12
1.01-12	3.25-11	2.50-10	5.83-10	1.40-12	2.23-13	3.42-24	2.16-11	1.35-11
4.26-12	4.47-11	3.59-14	9.96-12	6.61-13	1.10-14	7.65-31	2.79-12	2.22-12
2.48-10	3.22-10	2.75-10	5.53-10	8.93-11	2.04-12	5.03-23		
3.37-11	1.00-10	1.00-10	2.28-10	3.53-11	1.89-12	4.62-23	3.59-10	5.63-11

PHI 45 TO 90 DEGREES

4.49-10	1.21-10	1.62-10	1.79-11	1.23-11	4.23-13	3.71-28	4.77-11	3.36-11
4.53-10	7.96-11	5.61-10	1.20-10	3.14-11	1.83-13	0.52-20	6.11-11	2.00-11
1.23-10	1.51-10	1.44-10	1.07-10	1.89-11	7.56-19	3.10-21	2.43-11	5.40-12
1.62-10	7.21-11	4.01-11	5.44-10	1.78-10	2.10-13	0.60-25	3.11-11	1.35-11
3.40-11	4.23-11	4.63-11	7.39-11	7.13-11	3.98-13	1.45-23	8.73-12	2.90-12
2.14-11	5.21-11	1.31-10	1.80-11	3.97-12	7.12-14	5.10-22	9.55-12	4.14-12
4.11-11	6.05-11	4.28-11	2.78-10	9.02-12	3.75-14	2.89-25	1.34-11	4.68-12
7.00-12	4.35-11	1.08-11	3.77-10	2.03-11	8.17-12	8.20-20	1.10-11	6.41-12
2.97-13	2.25-11	7.21-11	2.41-12	1.31-11	2.59-12	7.18-24	3.70-12	1.71-12
0.	1.66-11	5.32-12	2.60-09	4.03-14	1.89-13	1.84-29	5.31-11	5.19-11
2.16-10	1.37-10	2.19-10	5.92-10	9.10-11	3.05-12	3.75-20		
4.66-11	2.66-11	8.05-11	3.48-10	5.50-11	2.62-12	2.68-20	4.44-11	9.35-12

PHI 90 TO 135 DEGREES

6.42-10	2.24-10	1.22-11	6.31-11	6.71-11	6.26-13	7.04-25	6.51-11	4.04-11
2.88-10	6.38-11	1.66-09	5.48-11	1.65-10	2.96-13	1.51-24	8.33-11	5.25-11
5.21-11	2.92-11	9.80-10	1.00-11	1.10-11	1.35-12	2.11-22	3.73-11	1.95-11
1.97-10	8.85-11	1.16-10	8.06-10	1.01-11	4.70-13	2.38-27	4.09-11	1.80-11
1.93-11	6.70-11	4.20-11	1.82-10	4.56-11	1.54-14	1.19-22	1.05-11	3.73-12
3.67-10	4.54-10	5.96-11	1.17-10	2.40-11	2.65-15	2.71-21	5.67-11	3.35-11
1.78-11	4.52-11	2.21-11	1.72-10	1.19-11	6.17-13	4.26-21	8.04-12	2.84-12
2.00-11	1.28-10	1.53-09	1.08-11	9.43-13	1.40-14	2.24-22	5.75-11	4.70-11
4.09-14	2.37-10	2.11-10	2.94-11	6.27-13	4.36-14	2.64-21	1.92-11	8.27-12
0.	2.09-10	4.00-12	1.28-11	6.96-12	4.25-12	2.66-30	1.09-11	9.74-12
2.45-10	2.54-10	1.06-09	3.96-10	5.57-11	1.07-12	2.45-21		
9.33-11	8.83-11	5.49-10	2.43-10	2.97-11	5.01-13	1.57-21	7.52-11	2.16-11

PHI 135 TO 180 DEGREES

1.12-10	1.01-11	1.55-10	2.99-11	1.82-11	1.00-13	2.16-26	1.52-11	5.73-12
1.54-10	4.02-11	5.73-11	1.42-11	3.49-11	1.53-13	9.75-26	1.69-11	8.18-12
2.30-11	5.54-11	8.69-11	1.15-11	2.30-10	8.64-14	6.63-24	1.07-11	3.55-12
1.33-11	7.14-11	6.79-11	6.13-11	1.30-11	2.07-14	3.23-31	8.20-12	3.39-12
2.62-13	1.42-10	7.13-11	2.85-11	7.48-12	2.28-13	6.57-22	1.01-11	4.46-12
3.82-11	4.89-11	1.91-11	1.77-09	2.48-11	1.21-14	3.31-27	4.19-11	3.52-11
3.24-12	2.81-11	1.18-11	8.15-11	4.06-10	4.66-14	7.91-25	9.11-12	4.91-12
6.37-11	6.29-11	3.71-11	4.27-12	4.69-11	2.43-13	1.94-26	1.01-11	6.31-12
0.	1.22-11	2.12-10	1.87-11	1.91-13	1.26-14	3.37-23	7.76-12	4.17-12
0.	3.22-11	2.98-11	7.46-11	5.84-15	3.02-14	8.80-22	4.05-12	2.31-12
6.93-11	1.09-10	1.33-10	3.76-10	2.25-10	1.85-13	1.75-22		
2.64-11	3.11-11	3.67-11	3.09-10	1.29-10	7.91-14	1.26-22	2.57-11	8.02-12
							7.92-10	1.05-10

AIR SCATTERING 3.13 02 ENERGY 7.00 ANGLE 1.80 02 DIST. 1.22 03
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.	4.13-08
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.	2.49-09

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.	2.75-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	6.99-11
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.	1.67-09
	0.	0.	0.	0.	0.	0.	0.	1.51-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	9.66-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	7.75-12
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.70-14
8.00 01	0.	0.	0.	0.	0.	0.	1.90-12	7.48-12
9.00 01	0.	0.	0.	0.	0.	0.	9.83-12	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.	2.33-12	6.21-11
	0.	0.	0.	0.	0.	0.	1.82-12	2.58-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.11-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.86-13
6.00 01	0.	0.	0.	0.	0.	0.	5.95-15	1.18-12
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.	3.08-13
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.	1.58-15	6.74-11
	0.	0.	0.	0.	0.	0.	1.58-15	2.62-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.50-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.01-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.36-16
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.61-17
9.00 01	0.	0.	0.	0.	0.	0.	0.	5.12-13
1.00 02	0.	0.	0.	0.	0.	0.	0.	6.71-12
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.	1.09-10
	0.	0.	0.	0.	0.	0.	0.	3.62-11

140135464651 112502705305

AIR SCATTERING 3.13 02 ENERGY 7.00 ANGLE 1.80 02 DIST. 1.22 03

2.80 01	1.77 03	0.	0.	4.77 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.	4.13-09
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.	2.49-10

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		
3.69-10	2.83-10	2.54-10	1.48-10	2.87-12	1.81-12	7.15-28	2.81-09	2.51-10
1.20-10	1.06-10	1.61-10	4.02-10	4.00-10	1.62-12	5.21-26	4.03-11	9.48-12
4.20-11	3.63-11	2.03-10	7.62-10	3.72-11	9.89-14	1.36-25	2.74-11	1.33-11
2.46-11	2.47-10	7.58-11	6.59-10	3.68-11	2.77-13	7.51-22	3.04-11	1.52-11
1.56-11	1.22-10	1.49-10	6.14-10	8.44-11	3.46-15	1.13-21	2.55-11	9.69-12
7.47-11	2.97-11	3.65-11	1.79-10	7.86-12	7.27-15	4.18-20	1.23-11	5.91-12
2.45-11	3.91-11	1.05-10	2.46-11	7.32-12	1.23-13	2.47-22	7.87-12	2.02-12
0.	1.43-11	4.39-10	3.34-12	1.54-12	9.44-15	9.13-23	1.49-11	1.38-11
0.	5.20-11	3.28-10	1.09-11	6.25-12	2.56-13	2.38-27	1.34-11	6.36-12
0.	0.	7.99-11	2.36-12	1.87-11	2.31-16	8.29-31	2.85-12	2.45-12
8.61-11	1.78-10	3.67-10	6.45-10	1.12-10	5.96-13	7.81-21		
2.10-11	8.69-11	1.33-10	2.60-10	7.17-11	3.73-13	7.37-21	2.09-10	1.84-11

PHI 45 TO 90 DEGREES

6.53-10	1.20-10	7.24-11	1.41-09	6.26-10	1.92-13	1.70-22	1.94-10	6.30-11
5.00-10	1.91-10	4.04-10	4.58-11	1.59-11	4.19-14	5.18-18	6.44-11	2.60-11
5.25-11	6.80-11	1.08-10	6.55-10	4.86-12	1.15-13	4.96-22	2.42-11	1.16-11
3.85-10	3.42-11	7.27-11	1.16-10	3.43-11	9.51-14	1.26-23	3.87-11	1.98-11
1.41-11	3.14-11	3.92-11	1.91-10	5.56-11	3.04-14	4.40-27	1.03-11	3.83-12
8.77-11	5.83-11	5.88-11	3.40-11	1.85-11	2.77-14	3.43-23	1.27-11	6.04-12
3.17-11	4.83-11	2.60-11	2.51-10	6.87-12	2.51-13	8.87-24	1.09-11	4.77-12
7.70-13	9.46-11	4.41-11	2.12-11	5.78-12	8.66-12	3.22-22	6.79-12	3.07-12
1.59-13	1.81-11	3.66-11	2.41-11	1.83-11	3.26-14	2.70-26	2.81-12	8.90-13
0.	1.21-10	1.55-10	4.27-12	3.18-14	1.89-18	0.	1.11-11	7.72-12
2.94-10	1.37-10	1.80-10	4.36-10	7.28-11	2.48-12	8.99-19		
1.02-10	2.39-11	4.95-11	1.89-10	4.02-11	2.29-12	8.99-19	5.24-11	9.97-12

PHI 90 TO 135 DEGREES

1.98-10	3.88-10	3.15-10	4.20-11	3.08-12	4.54-15	2.04-26	1.57-10	4.65-11
6.36-10	1.25-10	1.98-10	1.22-10	3.22-09	1.74-14	5.60-16	1.08-10	4.50-11
2.48-10	8.74-11	3.62-11	7.50-11	9.57-10	3.74-14	4.92-25	3.94-11	1.65-11
5.81-11	2.55-11	7.11-11	6.13-11	6.31-12	3.39-14	4.98-25	9.51-12	2.32-12
4.72-11	7.89-11	1.28-10	2.55-10	1.42-10	8.68-13	4.46-21	1.88-11	5.80-12
5.58-11	1.95-10	1.92-10	4.06-11	1.07-11	7.46-14	9.70-25	2.13-11	1.13-11
6.94-13	5.35-11	9.70-11	1.79-10	1.89-11	3.83-13	1.39-23	9.70-12	3.95-12
7.10-13	4.27-11	1.52-11	2.28-11	6.66-12	4.55-13	5.48-29	3.22-12	1.86-12
2.30-12	1.37-11	1.28-12	2.64-11	7.40-11	2.70-17	9.28-34	2.40-12	1.19-12
0.	2.41-11	6.82-11	1.21-11	9.41-12	6.73-13	0.	3.76-12	1.62-12
2.26-10	1.57-10	1.82-10	1.85-10	8.63-10	4.75-13	9.73-17		
4.54-11	4.19-11	5.19-11	5.73-11	6.12-10	2.36-13	9.73-17	5.34-11	1.05-11

PHI 135 TO 180 DEGREES

7.63-10	5.94-10	7.58-10	2.94-11	9.00-12	3.28-13	3.97-25	2.66-10	7.29-11
2.81-10	1.15-10	6.05-10	9.90-11	8.46-11	2.84-13	3.71-26	6.08-11	2.03-11
1.40-10	1.01-10	1.32-10	8.20-11	1.26-10	1.23-13	7.09-26	2.37-11	6.87-12
1.54-11	2.57-10	1.82-10	7.88-11	1.05-10	3.29-11	6.38-19	2.31-11	6.56-12
1.53-10	5.04-11	5.84-11	7.84-11	1.88-11	2.49-11	2.78-23	1.88-11	6.60-12
4.41-12	6.63-11	5.22-11	4.72-11	6.11-12	3.24-14	2.67-22	7.04-12	2.68-12
3.87-10	6.87-12	4.91-11	2.25-10	9.14-12	5.64-15	3.65-20	3.75-11	2.93-11
4.64-11	3.42-11	5.84-11	2.63-10	2.38-10	1.20-13	1.09-22	1.56-11	6.78-12
4.93-17	6.03-10	6.05-10	1.53-10	3.11-10	1.03-11	1.98-29	5.67-11	4.20-11
0.	7.29-13	3.87-12	6.12-11	1.05-12	3.50-10	9.77-28	4.89-12	3.68-12
3.03-10	3.03-10	4.01-10	2.62-10	2.08-10	3.81-11	2.20-19		
1.27-10	9.48-11	1.44-10	8.81-11	1.45-10	2.74-11	2.08-19	7.15-11	1.45-11
							6.07-10	5.54-11

AIR SCATTERING 3.14 02 ENERGY 4.00 ANGLE 1.00 DIST. 1.22 03
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	3.85-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	2.24-07	4.56-07	6.51-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	7.62-07	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.	5.83-07	0.	0.
1.40 02	0.	0.	0.	0.	0.	0.	6.24-07	0.
1.60 02	0.	0.	0.	0.	0.	0.	4.53-07	3.14-07
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.77-06
	2.71-07	7.91-08	1.13-07	0.	2.49-07	1.90-07	2.45-07	2.21-07

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	2.45-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	1.42-07	2.90-07	4.15-07	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	4.85-07	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.63-15
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.73-12
1.20 02	0.	0.	0.	0.	0.	3.71-07	0.	1.88-10
1.40 02	0.	0.	0.	0.	0.	0.	3.97-07	2.16-10
1.60 02	0.	0.	0.	0.	0.	0.	2.88-07	4.30-07
1.80 02	0.	0.	0.	0.	0.	0.	1.64-11	1.77-06
	1.73-07	5.04-08	7.20-08	0.	1.58-07	1.21-07	1.56-07	1.81-07
	4.38-08	5.04-08	7.20-08	0.	1.58-07	1.21-07	1.17-07	7.86-08

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	2.56-09	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	5.65-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.87-12
9.00 01	0.	0.	0.	0.	0.	0.	0.	7.77-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.16-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	6.31-11
1.40 02	0.	0.	0.	0.	0.	0.	2.83-13	8.85-09
1.60 02	0.	0.	0.	0.	0.	1.75-12	3.41-12	7.08-10
1.80 02	0.	0.	0.	0.	0.	2.06-13	2.77-12	9.30-09
	0.	0.	0.	0.	0.	1.55-10	8.35-13	3.17-09
	0.	0.	0.	0.	0.	1.54-10	3.46-13	1.96-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	6.16-09	0.	0.	0.
4.00 01	0.	0.	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.50-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.64-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.51-12
1.20 02	0.	0.	0.	0.	0.	7.22-11	0.	5.52-10
1.40 02	0.	0.	0.	0.	0.	0.	1.69-10	1.42-10
1.60 02	0.	0.	0.	0.	1.14-14	3.24-12	6.12-11	1.07-09
1.80 02	0.	0.	0.	0.	1.87-13	2.92-14	7.61-12	3.66-09
	0.	0.	0.	0.	3.71-10	2.41-11	5.60-11	1.31-09
	0.	0.	0.	0.	3.71-10	2.36-11	4.44-11	5.25-10

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.	1.22-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.14-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	8.47-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	9.18-10
1.40 02	0.	0.	0.	0.	0.	0.	1.74-11	1.30-09
1.60 02	0.	0.	0.	0.	0.	6.63-13	1.14-11	6.39-10
1.80 02	0.	0.	0.	0.	7.97-16	3.50-14	3.48-11	1.13-09
	0.	0.	0.	0.	4.81-17	1.17-13	8.71-12	1.01-09
	0.	0.	0.	0.	4.81-17	1.10-13	4.73-12	5.06-10

334505647371 113661002301

AIR SCATTERING 3.14 02 ENERGY 4.00 ANGLE 1.00 DIST. 1.22 03
3.20 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.	5.39-06
0.	0.	0.	0.	0.	0.	0.	1.07-06
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.91-07
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.17-07
0.	0.	0.	0.	0.	0.	0.	6.24-08
0.	0.	0.	0.	0.	0.	0.	7.04-08
0.	0.	0.	0.	0.	0.	0.	2.21-07
0.	0.	0.	0.	0.	0.	0.	6.53-07

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		
4.92-10	3.77-10	1.43-10	3.22-11	3.80-12	9.64-17	7.93-28	3.43-06	8.42-07
7.65-11	1.55-10	1.27-10	2.76-11	5.98-12	2.43-15	6.22-23	6.80-07	3.94-07
9.46-10	6.58-11	8.64-11	2.77-11	6.94-13	9.90-14	3.38-23	4.96-11	3.33-11
1.82-10	2.17-10	5.15-11	6.01-10	1.22-11	1.70-13	1.94-23	1.21-07	1.21-07
5.08-10	8.17-11	7.28-11	1.34-10	4.23-12	3.41-15	3.49-26	3.72-11	1.65-11
2.57-10	2.16-10	2.96-10	2.92-11	2.55-12	1.54-14	7.88-22	3.09-11	1.24-11
1.98-10	1.07-10	9.43-11	9.48-11	2.48-11	5.08-13	2.58-25	7.42-08	7.42-08
1.09-09	5.15-10	1.83-10	3.88-11	3.61-10	7.46-15	2.28-22	3.98-08	3.97-08
3.94-10	3.19-10	1.34-10	1.05-10	1.13-11	1.83-13	3.69-20	6.33-08	4.40-08
8.01-10	5.42-10	3.99-11	8.40-11	2.47-11	6.90-14	1.65-20	1.41-07	4.15-08
9.06-10	4.49-10	2.40-10	3.03-10	1.14-10	2.89-13	7.62-21		
2.55-10	9.37-11	5.48-11	1.57-10	9.89-11	1.85-13	7.39-21	4.19-07	9.76-08

PHI 45 TO 90 DEGREES

2.29-09	4.89-11	3.56-10	3.75-11	6.65-13	1.17-14	8.86-30	6.61-10	5.23-10
8.60-10	9.97-11	1.79-10	2.66-11	2.27-12	3.47-14	5.62-27	1.05-10	5.96-11
5.63-10	2.52-10	2.17-10	2.49-10	1.46-11	1.41-13	1.16-23	5.20-11	1.91-11
2.86-10	2.39-10	1.34-10	5.32-11	1.64-11	2.80-13	1.11-21	3.01-11	1.08-11
2.62-10	3.87-11	1.60-09	1.18-11	1.77-11	4.19-14	3.32-26	6.22-11	3.88-11
6.09-11	1.14-10	9.76-11	1.66-10	8.27-11	1.25-14	3.10-24	1.38-11	4.03-12
5.07-10	3.69-10	3.39-10	9.99-11	1.49-11	1.21-13	4.27-25	5.86-11	1.92-11
9.44-10	8.92-11	2.58-10	3.10-10	6.74-12	1.28-14	6.24-24	7.79-10	5.90-10
1.18-10	4.18-10	1.20-10	2.50-10	1.85-11	1.89-13	1.28-23	8.63-11	2.55-11
1.23-09	1.28-09	3.54-10	1.80-10	3.06-11	1.45-14	1.16-27	8.75-10	4.17-10
1.10-09	4.86-10	6.71-10	2.91-10	3.88-11	2.22-13	3.70-22		
3.26-10	1.38-10	3.51-10	7.75-11	1.30-11	9.42-14	3.49-22	3.89-10	1.63-10

PHI 90 TO 135 DEGREES

8.77-12	4.73-10	6.21-11	8.02-11	3.26-12	1.60-14	6.23-19	1.56-09	1.54-09
1.83-10	2.38-11	8.86-11	2.07-11	4.33-11	3.29-13	5.18-21	1.48-11	9.52-12
8.23-10	1.18-10	2.10-10	4.02-11	1.42-11	3.41-14	1.74-28	1.79-10	1.27-10
8.89-10	3.31-10	1.98-10	1.23-10	9.25-12	6.24-14	2.04-19	5.87-11	3.68-11
7.42-10	9.28-11	1.33-10	6.67-10	6.81-11	3.41-15	3.03-18	1.93-10	1.33-10
4.24-10	2.42-10	2.55-10	2.17-11	3.02-10	1.12-14	3.88-25	4.43-11	1.46-11
3.09-09	2.51-10	2.22-10	9.89-11	1.76-11	2.69-14	2.32-24	2.60-10	9.74-11
1.19-10	1.94-10	1.10-10	3.91-10	7.86-12	4.77-14	8.04-23	5.09-11	1.86-11
3.59-10	1.92-10	1.24-10	1.28-10	1.37-11	8.44-16	5.33-23	1.26-10	5.32-11
9.49-10	1.35-10	3.77-10	1.12-10	1.01-10	2.52-15	9.14-31	3.67-10	1.40-10
1.83-09	4.05-10	3.53-10	3.44-10	9.51-11	1.12-13	6.32-19		
5.76-10	1.17-10	6.73-11	1.87-10	5.25-11	5.85-14	5.95-19	3.47-10	1.08-10

PHI 135 TO 180 DEGREES

3.35-13	5.58-14	1.05-10	5.86-11	8.98-12	3.95-16	4.77-19	3.54-12	1.66-12
8.73-10	7.48-11	6.04-11	8.50-11	8.71-12	1.40-16	9.52-26	5.79-11	3.69-11
2.92-10	1.72-09	5.44-11	3.14-11	2.01-11	9.75-14	2.14-24	8.23-11	6.10-11
1.48-10	3.29-10	2.85-10	3.67-10	9.01-12	1.96-13	2.42-23	3.32-11	1.10-11
4.14-10	5.31-10	9.51-11	1.45-10	7.94-12	3.22-14	5.96-28	6.57-11	3.09-11
1.37-10	1.18-10	2.99-10	1.38-10	1.39-11	1.35-15	6.11-25	8.97-11	6.50-11
1.97-10	1.83-10	2.79-10	1.26-09	1.40-11	6.26-14	4.33-21	1.18-10	6.06-11
3.75-10	1.90-10	1.92-10	8.67-11	6.50-11	8.27-14	5.11-21	1.42-10	7.94-11
2.28-10	9.62-10	1.17-10	1.02-10	7.25-12	7.16-15	4.43-28	1.05-10	3.22-11
2.99-10	1.10-10	1.95-10	5.66-11	4.49-13	6.28-15	1.93-28	1.21-10	2.92-11
5.95-10	9.73-10	3.67-10	6.59-10	3.73-11	1.40-13	3.15-20		
1.38-10	4.74-10	7.84-11	4.07-10	9.78-12	6.74-14	2.88-20	1.72-10	4.56-11
							6.60-07	1.53-07

AIR SCATTERING 3.15 02 ENERGY 4.00 ANGLE 1.50 01 DIST. 1.22 03
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	6.05-08	1.16-07	2.42-08	0.	0.	0.	0.	0.
4.00 01	0.	0.	2.86-08	2.55-08	0.	0.	0.	0.
6.00 01	0.	0.	0.	8.07-09	2.42-08	0.	0.	0.
8.00 01	0.	0.	0.	0.	3.05-09	2.05-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	2.09-08	0.	0.
1.00 02	0.	0.	0.	0.	0.	9.00-09	1.61-08	0.
1.20 02	0.	0.	0.	0.	0.	0.	3.29-08	0.
1.40 02	0.	0.	0.	0.	0.	0.	3.56-08	0.
1.60 02	0.	0.	0.	0.	0.	0.	2.37-09	5.03-08
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.23-08
	3.65-09	7.00-09	6.43-09	6.58-09	7.44-09	1.19-08	2.34-08	9.48-09

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	3.85-08	7.39-08	1.54-08	0.	0.	0.	0.	0.
4.00 01	0.	0.	1.82-08	1.62-08	0.	0.	0.	0.
6.00 01	0.	0.	0.	5.14-09	1.54-08	0.	0.	0.
8.00 01	0.	0.	0.	0.	1.94-09	1.31-08	0.	2.39-10
9.00 01	0.	0.	0.	0.	0.	1.33-08	0.	3.64-09
1.00 02	0.	0.	0.	0.	0.	5.73-09	1.03-08	1.18-11
1.20 02	0.	0.	0.	0.	0.	0.	2.09-08	1.75-08
1.40 02	0.	0.	0.	0.	0.	0.	2.27-08	2.77-09
1.60 02	0.	0.	0.	0.	0.	0.	1.56-09	3.55-08
1.80 02	0.	0.	0.	0.	2.52-14	1.75-12	1.85-10	1.15-08
	2.32-09	4.46-09	4.09-09	4.19-09	4.74-09	7.58-09	1.49-08	1.40-08
	4.63-10	9.68-10	1.13-09	1.39-09	1.79-09	2.20-09	2.75-09	5.74-09

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.	9.04-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	7.86-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	7.67-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.98-10
1.40 02	0.	0.	0.	0.	0.	0.	9.36-18	8.25-10
1.60 02	0.	0.	0.	0.	0.	2.58-12	1.74-10	4.60-10
1.80 02	0.	0.	0.	0.	0.	1.20-10	1.25-10	1.73-09
	0.	0.	0.	0.	0.	7.68-12	3.77-11	5.58-10
	0.	0.	0.	0.	0.	7.24-12	2.92-11	1.75-10

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.	7.85-12
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.86-13
1.00 02	0.	0.	0.	0.	0.	0.	0.	4.02-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.56-10
1.40 02	0.	0.	0.	0.	0.	0.	2.04-11	2.32-10
1.60 02	0.	0.	0.	0.	2.02-13	8.73-12	5.27-11	3.50-10
1.80 02	0.	0.	0.	0.	0.	1.08-12	1.95-12	1.30-09
	0.	0.	0.	0.	3.51-14	1.58-12	1.47-11	2.94-10
	0.	0.	0.	0.	3.51-14	1.52-12	9.60-12	9.56-11

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.	6.49-15
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.60-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.43-13
1.20 02	0.	0.	0.	0.	0.	0.	0.	6.21-11
1.40 02	0.	0.	0.	0.	0.	1.06-12	3.56-14	1.73-10
1.60 02	0.	0.	0.	0.	0.	4.62-13	5.08-11	1.00-10
1.80 02	0.	0.	0.	0.	0.	5.81-12	6.20-11	4.43-09
	0.	0.	0.	0.	0.	7.12-13	1.26-11	3.51-10
	0.	0.	0.	0.	0.	4.12-13	8.05-12	2.29-10

042027111405 163162423561

AIR SCATTERING 3.15 02 ENERGY 4.00 ANGLE 1.50 01 DIST. 1.22 03
2.60 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.	1.92-07
0.	0.	0.	0.	0.	0.	0.	2.74-08
0.	0.	0.	0.	0.	0.	0.	9.28-09
0.	0.	0.	0.	0.	0.	0.	4.87-09
0.	0.	0.	0.	0.	0.	0.	4.19-09
0.	0.	0.	0.	0.	0.	0.	3.41-09
0.	0.	0.	0.	0.	0.	0.	3.29-09
0.	0.	0.	0.	0.	0.	0.	3.56-09
0.	0.	0.	0.	0.	0.	0.	4.26-09
0.	0.	0.	0.	0.	0.	0.	9.85-10
0.	0.	0.	0.	0.	0.	0.	
							2.45-08

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		
3.32-09	5.45-11	1.10-11	7.93-11	4.21-12	4.84-18	4.33-19	1.22-07	1.74-08
4.20-09	2.31-09	1.26-10	2.88-11	7.81-11	3.24-13	5.56-22	1.78-08	4.35-09
4.91-10	7.37-09	6.19-11	2.48-10	9.76-11	2.92-16	1.10-21	6.21-09	2.01-09
2.52-10	2.48-10	1.97-10	4.59-11	1.34-11	2.59-15	5.11-22	3.15-09	1.17-09
1.83-10	1.99-11	1.26-11	1.27-10	1.82-11	8.93-15	3.90-23	2.97-09	1.37-09
1.89-10	3.36-10	1.56-10	1.38-10	2.32-11	3.38-16	2.95-29	2.20-09	1.09-09
8.92-10	2.75-10	3.01-10	1.48-10	1.62-11	7.81-14	9.77-21	3.57-09	1.70-09
1.71-10	1.89-10	5.47-10	2.68-10	1.74-11	1.11-14	3.06-23	2.52-09	5.04-10
3.05-10	5.11-10	6.38-10	6.63-11	6.63-11	5.46-15	1.92-22	3.05-09	3.17-10
1.00-09	1.11-09	3.46-10	3.76-11	3.10-11	1.19-14	2.01-30	1.04-09	9.08-11
1.66-09	2.80-09	5.08-10	2.70-10	7.46-11	8.89-14	2.99-20		
7.58-10	1.65-09	1.29-10	7.77-11	3.03-11	5.83-14	2.64-20	1.65-08	1.57-09

PHI 45 TO 90 DEGREES

4.37-09	2.10-11	1.57-12	4.36-11	1.42-12	8.12-16	4.61-26	2.64-10	1.85-10
7.95-10	1.25-10	1.60-11	3.45-11	4.02-11	1.94-14	9.59-24	5.36-11	4.20-11
1.06-10	1.07-10	4.82-11	3.23-10	2.05-11	1.72-14	2.86-26	1.64-11	5.74-12
2.31-10	1.59-10	5.50-10	4.58-10	2.79-10	5.26-15	5.15-22	5.03-11	1.32-11
3.21-10	7.42-11	2.21-11	5.29-11	4.47-12	4.08-14	1.87-20	2.96-11	1.33-11
1.81-10	2.86-10	3.96-10	2.35-10	2.05-11	8.92-15	4.53-21	4.06-11	1.09-11
4.40-09	4.99-10	6.72-10	6.68-10	8.33-11	2.30-14	4.11-22	3.33-10	2.10-10
1.15-10	4.26-10	9.27-11	1.81-10	1.07-11	2.25-13	6.39-21	9.33-11	4.30-11
4.33-10	1.95-10	4.45-10	7.15-11	2.21-11	2.15-15	4.39-22	9.97-11	3.03-11
2.86-10	2.88-10	3.07-10	4.03-11	3.88-11	7.88-16	3.17-29	2.11-10	5.23-11
2.15-09	4.93-10	6.08-10	5.75-10	1.44-10	8.61-14	6.11-21		
1.14-09	1.35-10	2.33-10	2.44-10	9.68-11	5.83-14	3.67-21	2.22-10	7.15-11

PHI 90 TO 135 DEGREES

5.81-10	3.64-10	7.32-12	8.14-11	1.10-11	1.96-14	5.75-23	4.95-11	2.68-11
1.10-10	1.70-11	4.34-11	1.42-10	1.72-12	2.45-14	1.18-23	1.04-11	5.10-12
6.66-10	7.92-11	4.86-11	1.56-10	1.49-11	8.13-16	5.46-21	4.65-11	1.87-11
3.34-10	3.82-10	3.62-10	1.11-10	4.43-12	2.30-14	6.52-26	4.48-11	1.45-11
1.33-10	9.12-10	3.19-10	2.68-11	3.38-12	1.60-14	7.16-24	4.90-11	2.51-11
3.74-10	1.24-09	1.40-10	9.18-11	7.41-13	1.61-13	7.22-23	7.51-11	4.03-11
2.12-09	5.49-10	2.30-10	5.49-11	3.02-11	3.29-13	2.43-21	1.74-10	9.55-11
1.73-10	7.99-11	1.53-10	9.38-11	2.36-11	8.13-14	1.08-19	3.92-11	1.09-11
7.20-11	1.19-10	9.81-10	5.59-11	7.44-12	8.10-13	6.93-27	6.82-11	2.19-11
8.08-11	2.86-10	2.39-09	3.36-11	1.40-11	8.72-14	5.12-28	1.77-10	7.40-11
1.18-09	7.83-10	6.49-10	1.83-10	2.54-11	3.19-13	3.09-20		
5.19-10	2.52-10	2.28-10	4.80-11	6.87-12	1.68-13	2.87-20	1.43-10	3.43-11

PHI 135 TO 180 DEGREES

6.30-10	0.	8.01-13	2.68-11	2.75-14	8.10-14	3.23-30	3.82-11	2.67-11
9.69-10	3.59-11	1.36-10	1.32-10	1.58-11	1.66-12	6.37-24	6.49-11	3.93-11
5.34-10	1.98-10	4.54-11	1.87-11	4.16-11	1.37-14	5.10-21	4.11-11	1.47-11
2.06-10	1.12-09	1.83-10	8.98-11	1.04-10	1.04-14	2.09-23	5.98-11	3.52-11
3.75-10	5.53-10	1.52-10	1.01-10	1.35-11	5.98-13	4.28-29	4.79-11	2.67-11
2.29-10	1.62-10	2.44-11	7.44-11	4.42-11	2.66-15	3.54-26	2.18-11	8.73-12
9.30-11	7.14-11	7.02-10	2.34-10	1.96-11	1.59-14	1.53-22	3.37-11	1.18-11
1.19-10	2.18-10	2.11-10	1.69-10	2.80-11	1.65-14	1.14-25	3.70-11	1.09-11
2.74-10	4.26-10	1.28-10	1.72-10	6.83-11	2.67-13	5.52-20	5.15-11	1.13-11
1.97-10	1.23-09	8.82-11	3.11-10	5.40-12	2.49-14	4.17-24	4.25-10	3.04-10
6.42-10	7.79-10	4.39-10	2.60-10	8.39-11	4.62-13	1.41-21		
1.66-10	3.30-10	1.41-10	8.00-11	2.75-11	3.14-13	1.36-21	1.11-10	2.75-11
							2.66-08	2.48-09

AIR SCATTERING 3.16 02 ENERGY 4.00 ANGLE 3.00 01 DIST. 1.22 03
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.	9.27-09	5.33-08	1.93-08	0.	0.	0.	0.
4.00 01	0.	0.	0.	1.20-08	1.32-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	7.01-09	8.97-09	0.	0.
8.00 01	0.	0.	0.	0.	0.	1.08-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	1.74-08	0.
1.00 02	0.	0.	0.	0.	0.	0.	1.44-08	0.
1.20 02	0.	0.	0.	0.	0.	0.	1.41-08	0.
1.40 02	0.	0.	0.	0.	0.	0.	4.80-09	1.10-08
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.64-09
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	5.59-10	3.21-09	3.24-09	4.16-09	5.90-09	1.14-08	3.73-09

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.	5.90-09	3.39-08	2.34-08	0.	0.	0.	1.09-09
4.00 01	0.	0.	0.	7.63-09	8.41-09	0.	0.	0.
6.00 01	0.	0.	0.	0.	4.46-09	5.71-09	0.	8.19-10
8.00 01	0.	0.	0.	0.	0.	6.84-09	0.	8.95-10
9.00 01	0.	0.	0.	0.	0.	0.	1.10-08	1.14-10
1.00 02	0.	0.	0.	0.	0.	0.	9.15-09	1.17-09
1.20 02	0.	0.	0.	0.	0.	0.	1.17-08	1.89-09
1.40 02	0.	0.	0.	0.	0.	1.08-14	3.07-09	8.68-09
1.60 02	0.	0.	0.	0.	0.	3.99-11	6.32-11	8.38-09
1.80 02	0.	0.	0.	0.	0.	1.82-13	9.06-12	1.03-09
	0.	3.56-10	2.04-09	2.74-09	2.65-09	3.76-09	8.14-09	5.24-09
	0.	1.45-10	4.06-10	8.36-10	6.81-10	7.86-10	1.30-09	6.04-10

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.	2.79-14
9.00 01	0.	0.	0.	0.	0.	0.	0.	6.03-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.24-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.16-10
1.40 02	0.	0.	0.	0.	0.	0.	6.57-15	4.94-10
1.60 02	0.	0.	0.	0.	0.	0.	5.15-13	3.65-09
1.80 02	0.	0.	0.	0.	0.	0.	8.73-12	1.61-09
	0.	0.	0.	0.	0.	0.	6.16-13	9.83-10
	0.	0.	0.	0.	0.	0.	5.22-13	5.92-10

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.	1.21-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.09-10
1.60 02	0.	0.	0.	0.	0.	1.34-14	1.86-12	1.32-10
1.80 02	0.	0.	0.	0.	0.	2.16-11	2.87-11	7.58-10
	0.	0.	0.	0.	0.	1.30-12	2.05-12	1.37-10
	0.	0.	0.	0.	0.	9.47-13	1.66-12	5.66-11

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.	3.75-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.53-11
1.40 02	0.	0.	0.	0.	0.	0.	1.71-14	4.84-11
1.60 02	0.	0.	0.	0.	0.	0.	3.58-13	4.13-11
1.80 02	0.	0.	0.	0.	0.	0.	4.71-11	3.99-10
	0.	0.	0.	0.	0.	0.	2.91-12	1.14-10
	0.	0.	0.	0.	0.	0.	2.01-12	6.74-11

0065546775 15 022431521405

AIR SCATTERING 3.16 02 ENERGY 4.00 ANGLE 3.00 01 DIST. 1.22 03
3.30 01 1.76 03 0. 0. 5.09 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.	4.71-08
0.	0.	0.	0.	0.	0.	0.	8.09-09
0.	0.	0.	0.	0.	0.	0.	3.55-09
0.	0.	0.	0.	0.	0.	0.	2.15-09
0.	0.	0.	0.	0.	0.	0.	1.74-09
0.	0.	0.	0.	0.	0.	0.	1.44-09
0.	0.	0.	0.	0.	0.	0.	1.41-09
0.	0.	0.	0.	0.	0.	0.	1.36-09
0.	0.	0.	0.	0.	0.	0.	3.71-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	7.33-09

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		
9.96-10	6.22-11	4.86-12	6.29-12	6.11-13	7.96-19	2.27-23	3.46-08	7.14-09
1.77-10	2.16-10	1.37-10	1.55-10	2.91-11	2.67-16	1.69-27	5.18-09	1.18-09
1.89-10	4.81-10	2.82-10	2.51-11	1.07-10	4.89-14	8.32-27	2.36-09	6.04-10
1.40-10	2.28-10	6.90-11	1.39-10	5.11-11	1.15-13	3.44-24	1.46-09	3.57-10
8.31-11	1.37-10	2.81-10	4.17-11	5.37-11	4.85-13	8.36-25	1.13-09	3.69-10
3.07-10	2.89-10	4.05-10	5.60-11	1.59-11	2.15-13	5.30-19	1.06-09	3.03-10
1.98-10	7.09-10	9.59-11	7.26-11	3.15-11	8.71-12	3.68-22	1.36-09	3.22-10
4.02-10	4.16-10	4.88-10	6.64-11	5.46-11	2.09-14	4.06-20	1.05-09	9.98-11
2.25-10	4.25-10	4.33-10	2.42-10	6.70-11	3.24-13	2.90-26	7.28-10	2.18-10
1.60-10	3.44-10	1.37-10	1.40-11	1.98-11	4.25-16	1.46-27	1.09-10	4.54-11
5.10-10	7.54-10	4.85-10	1.77-10	9.99-11	7.93-13	1.03-19		
1.10-10	1.40-10	1.14-10	4.06-11	3.62-11	5.99-13	7.37-20	5.33-09	5.35-10

PHI 45 TO 90 DEGREES

1.80-09	9.06-12	3.61-11	1.60-11	3.23-12	7.92-21	6.94-22	1.09-10	9.22-11
3.00-10	4.81-11	3.31-11	7.95-11	1.10-10	1.12-15	3.84-23	2.30-11	9.68-12
6.34-10	2.42-10	1.99-10	8.68-11	1.31-10	6.96-14	9.21-25	5.44-11	2.36-11
1.84-10	1.14-10	1.24-10	1.27-10	2.87-11	2.97-15	2.00-25	2.04-11	5.07-12
6.06-10	1.21-11	3.12-09	5.91-11	8.77-12	9.81-16	1.90-19	1.17-10	7.15-11
1.21-10	4.05-10	5.16-11	1.54-11	2.91-11	2.31-13	1.49-19	3.44-11	1.86-11
1.81-10	6.17-10	1.28-10	9.38-11	8.76-12	5.78-14	3.54-21	5.50-11	1.86-11
4.81-10	1.06-09	2.02-10	1.20-10	3.46-11	5.26-14	9.19-24	1.13-10	3.67-11
2.02-10	1.65-10	1.21-10	2.62-10	1.45-11	2.72-13	5.91-23	3.17-10	2.68-10
5.82-10	8.04-11	1.38-10	1.76-10	3.33-12	4.90-14	2.17-25	1.73-10	1.02-10
7.73-10	6.64-10	7.76-10	2.11-10	8.49-11	1.43-13	6.01-20		
1.80-10	2.22-10	5.03-10	4.32-11	5.35-11	6.52-14	4.23-20	1.72-10	5.11-11

PHI 90 TO 135 DEGREES

4.65-11	1.06-11	3.00-11	2.55-12	5.01-13	2.64-16	3.83-29	3.94-12	2.03-12
2.81-10	3.24-10	8.90-11	2.14-11	2.14-11	1.81-15	5.52-24	3.12-11	1.12-11
2.97-10	8.79-11	1.50-10	5.72-11	1.75-11	6.77-15	3.06-25	2.57-11	1.29-11
8.25-11	4.07-11	6.52-11	6.43-11	1.48-11	6.03-14	6.86-25	9.12-12	3.22-12
1.88-10	2.59-10	4.17-10	4.05-10	9.32-12	3.96-15	2.83-21	3.68-11	1.23-11
7.43-10	1.31-10	1.95-10	2.15-10	1.27-12	2.99-13	4.80-27	5.72-11	2.76-11
1.53-10	3.72-10	2.25-10	9.09-11	1.02-11	8.56-15	3.02-24	3.91-11	1.26-11
1.83-09	1.32-10	5.66-10	2.09-11	5.97-11	3.22-14	4.55-26	1.38-10	8.25-11
9.08-11	2.67-10	3.54-10	9.00-11	5.15-11	5.35-13	5.41-23	3.63-11	1.40-11
2.52-11	3.98-11	4.60-10	2.01-10	2.08-10	3.20-15	1.87-29	8.73-11	3.00-11
8.72-10	3.67-10	4.98-10	2.11-10	5.57-11	1.79-13	5.03-22		
3.76-10	9.99-11	1.42-10	7.57-11	1.81-11	1.13-13	4.91-22	9.28-11	2.38-11

PHI 135 TO 180 DEGREES

1.58-09	5.85-10	3.20-11	4.63-11	2.70-11	3.23-16	5.11-27	1.17-10	9.41-11
1.98-10	1.08-10	2.16-11	1.10-11	3.67-12	2.04-13	5.02-28	1.65-11	1.05-11
4.57-10	2.13-10	6.54-11	7.77-10	1.59-10	1.40-14	1.01-26	5.02-11	2.07-11
2.44-10	5.32-11	2.06-10	1.22-11	1.76-11	6.05-14	9.48-23	2.19-11	7.71-12
9.30-11	2.66-10	1.97-10	1.62-09	7.30-12	1.49-15	1.11-23	7.42-11	3.80-11
1.02-09	2.93-10	1.45-10	9.28-11	2.06-11	4.30-15	7.78-26	7.66-11	4.60-11
3.16-10	1.96-10	2.23-10	8.38-11	8.13-11	1.73-14	2.49-22	3.48-11	1.32-11
1.69-10	6.79-11	2.18-10	8.94-11	1.15-11	3.07-13	2.77-21	2.32-11	7.40-12
1.21-10	1.07-10	1.72-10	1.71-11	3.47-12	1.58-13	3.14-22	1.89-11	7.36-12
9.61-11	4.37-11	6.74-11	3.88-10	1.69-11	3.10-15	1.81-23	5.04-11	1.92-11
6.97-10	3.29-10	3.15-10	5.90-10	8.64-11	1.75-13	9.07-22		
1.99-10	8.59-11	6.94-11	4.64-10	4.65-11	8.83-14	7.58-22	8.05-11	1.64-11
							8.91-09	8.58-10

AIR SCATTERING 3.17 02 ENERGY 4.00 ANGLE 6.00 01 DIST. 1.22 03
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.	9.73-10	3.79-08	3.32-09	0.	0.
4.00 01	0.	0.	0.	0.	0.	1.25-08	0.	0.
6.00 01	0.	0.	0.	0.	0.	3.04-09	6.41-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	8.35-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	6.43-09	0.
1.00 02	0.	0.	0.	0.	0.	0.	3.63-09	2.38-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	3.38-09
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.	5.87-11	2.29-09	3.18-09	6.18-09	1.51-09

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.	6.19-10	2.41-08	2.11-09	2.01-09	0.
4.00 01	0.	0.	0.	0.	0.	7.96-09	0.	8.71-12
6.00 01	0.	0.	0.	0.	0.	1.93-09	4.08-09	4.25-10
8.00 01	0.	0.	0.	0.	0.	0.	6.43-09	8.73-10
9.00 01	0.	0.	0.	0.	0.	0.	4.09-09	1.84-09
1.00 02	0.	0.	0.	0.	0.	0.	2.97-09	4.02-09
1.20 02	0.	0.	0.	0.	0.	0.	1.48-10	3.84-09
1.40 02	0.	0.	0.	0.	0.	0.	3.92-11	3.20-10
1.60 02	0.	0.	0.	0.	0.	1.85-13	9.67-12	1.11-09
1.80 02	0.	0.	0.	0.	0.	0.	0.	5.99-10
	0.	0.	0.	3.73-11	1.46-09	2.03-09	4.59-09	2.99-09
	0.	0.	0.	3.73-11	2.84-10	3.24-10	5.32-10	3.51-10

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.	2.05-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	7.55-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.17-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.28-09
1.20 02	0.	0.	0.	0.	0.	0.	1.22-14	1.66-10
1.40 02	0.	0.	0.	0.	0.	0.	4.91-15	2.82-10
1.60 02	0.	0.	0.	0.	0.	0.	3.12-11	2.21-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.66-11
	0.	0.	0.	0.	0.	0.	5.43-12	9.95-10
	0.	0.	0.	0.	0.	0.	5.42-12	5.54-10

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.	1.07-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.05-13
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.67-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	8.35-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.65-13
	0.	0.	0.	0.	0.	0.	0.	8.81-12
	0.	0.	0.	0.	0.	0.	0.	6.26-12

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.	2.10-11
1.40 02	0.	0.	0.	0.	0.	0.	4.56-11	2.43-12
1.60 02	0.	0.	0.	0.	0.	0.	8.47-13	1.71-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.18-12
	0.	0.	0.	0.	0.	0.	1.23-11	7.87-12
	0.	0.	0.	0.	0.	0.	1.19-11	6.89-12

0077054034 51 156571724765

AIR SCATTERING 3.17 02 ENERGY 4.00 ANGLE 6.00 01 DIST. 1.22 03

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.	1.05-08
0.	0.	0.	0.	0.	0.	0.	2.50-09
0.	0.	0.	0.	0.	0.	0.	1.25-09
0.	0.	0.	0.	0.	0.	0.	8.35-10
0.	0.	0.	0.	0.	0.	0.	6.43-10
0.	0.	0.	0.	0.	0.	0.	5.53-10
0.	0.	0.	0.	0.	0.	0.	2.70-10
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.	
							1.97-09

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		
2.02-09	4.95-11	1.58-10	3.67-11	2.56-11	3.89-13	1.94-28	7.03-09	1.31-09
2.88-10	4.94-10	1.17-10	1.50-10	4.84-11	2.19-14	3.18-22	1.63-09	3.19-10
6.79-10	1.76-10	1.01-10	8.78-11	1.40-11	9.43-14	1.51-25	8.80-10	1.62-10
2.20-10	2.14-10	2.28-10	7.08-10	2.64-11	1.62-12	3.73-25	7.51-10	1.34-10
1.84-10	5.06-10	8.65-10	3.76-10	1.05-11	3.99-14	2.64-23	6.12-10	9.80-11
5.25-10	7.84-10	9.42-10	9.44-10	2.48-11	2.84-13	1.37-20	7.16-10	1.27-10
3.48-10	4.76-10	4.62-10	9.03-11	9.45-12	7.45-14	3.24-25	3.73-10	3.44-11
6.01-10	3.02-10	1.69-10	4.47-10	1.62-11	1.51-14	2.49-25	8.74-11	2.38-11
1.57-10	8.79-11	3.49-10	1.37-10	6.22-12	2.76-12	1.68-19	1.13-10	8.25-11
3.16-11	1.58-10	7.62-11	1.69-10	2.27-11	6.08-16	9.73-21	6.01-11	3.06-11
8.50-10	6.90-10	7.06-10	6.94-10	3.83-11	1.14-12	3.21-20		
1.74-10	1.32-10	2.85-10	2.49-10	8.62-12	6.64-13	2.75-20	1.59-09	1.25-10

PHI 45 TO 90 DEGREES

1.35-11	2.56-10	4.15-11	4.04-11	1.92-11	2.10-14	8.93-32	1.19-11	6.83-12
2.66-10	5.31-11	1.05-10	6.39-11	7.78-12	4.34-13	5.69-24	2.14-11	8.25-12
1.41-10	1.23-10	3.77-10	5.58-11	9.81-11	5.84-14	5.13-25	2.56-11	6.69-12
4.28-10	4.34-10	1.70-10	9.04-11	1.26-11	3.23-14	1.64-18	1.07-10	4.95-11
1.06-09	4.61-10	1.00-09	1.21-10	1.80-11	4.85-14	5.21-20	1.08-10	6.02-11
4.68-10	8.55-11	3.80-11	3.42-10	2.45-11	3.31-14	1.77-22	3.00-10	2.39-10
1.27-09	2.30-10	5.80-10	3.02-10	1.73-11	5.99-14	1.17-21	1.17-10	7.25-11
1.89-10	9.64-11	2.00-10	2.08-10	5.09-11	1.62-13	8.79-23	4.59-11	1.87-11
1.14-10	1.23-09	2.03-10	2.47-10	2.34-11	3.80-14	1.87-27	8.07-11	4.30-11
1.04-10	3.30-10	2.87-11	4.52-11	9.58-13	5.40-14	2.45-28	2.71-11	1.72-11
9.86-10	6.28-10	6.36-10	3.38-10	6.34-11	1.89-13	5.46-19		
4.34-10	2.26-10	1.94-10	9.93-11	2.08-11	9.70-14	5.36-19	1.83-10	6.99-11

PHI 90 TO 135 DEGREES

1.33-09	1.94-10	2.69-09	6.46-11	4.63-12	3.48-15	4.39-19	1.52-10	7.94-11
1.01-10	4.59-10	8.55-10	7.24-11	3.39-11	2.31-13	1.72-18	4.46-11	1.78-11
3.04-10	4.74-10	1.04-09	6.02-10	3.10-10	9.34-13	5.65-26	7.30-11	2.25-11
1.37-10	2.07-10	1.17-10	2.21-10	1.41-10	1.67-12	3.60-21	2.35-11	6.67-12
2.20-11	1.54-10	8.42-11	2.54-10	3.49-12	2.90-14	7.82-22	1.27-11	4.59-12
4.84-10	2.77-10	8.48-11	5.07-10	2.79-11	9.50-16	9.57-22	4.91-11	2.86-11
1.30-10	1.40-10	4.35-11	6.45-10	1.94-11	4.55-13	1.20-23	2.38-11	7.84-12
5.19-10	2.51-10	6.59-10	1.67-10	8.08-11	1.53-13	1.92-20	6.16-11	2.31-11
4.22-12	1.46-10	4.91-10	4.29-11	7.48-11	8.12-15	7.12-22	1.95-11	1.15-11
2.04-10	1.32-11	9.60-11	5.93-10	4.66-11	1.29-15	1.73-18	2.99-11	1.77-11
5.10-10	4.99-10	9.35-10	6.79-10	1.84-10	1.03-12	4.36-19		
1.41-10	1.31-10	3.55-10	2.17-10	6.80-11	6.90-13	3.43-19	8.41-11	1.49-11

PHI 135 TO 180 DEGREES

1.13-10	5.55-12	5.06-11	4.81-10	2.39-11	2.01-14	8.09-24	1.57-11	9.43-12
6.68-10	4.17-11	6.17-11	1.91-11	6.13-12	4.89-13	3.63-29	4.35-11	2.79-11
2.11-10	1.20-11	7.39-11	9.73-11	9.56-11	1.69-12	1.26-21	1.75-11	9.28-12
8.78-11	4.97-11	7.21-11	9.98-11	1.50-10	5.99-16	2.55-26	1.21-11	3.52-12
3.41-10	1.68-09	3.48-11	2.16-12	3.04-11	4.10-14	1.62-27	8.23-11	6.12-11
2.94-10	6.67-10	6.41-11	8.56-10	6.83-12	1.71-15	1.80-27	5.61-11	2.56-11
2.86-10	7.78-11	5.65-11	6.33-11	2.53-11	3.82-15	4.89-24	2.42-11	1.36-11
2.02-11	3.50-11	3.63-10	8.76-11	1.63-12	7.62-14	1.57-27	1.73-11	8.20-12
1.34-09	8.88-11	3.50-10	3.64-11	2.55-12	2.19-14	2.28-19	9.26-11	6.78-11
6.69-10	2.11-10	4.13-10	3.15-11	2.28-12	8.01-15	9.51-25	5.82-11	4.09-11
5.89-10	4.98-10	2.75-10	2.92-10	9.28-11	5.69-13	4.00-20		
2.56-10	2.98-10	9.19-11	1.60-10	5.29-11	5.10-13	3.97-20	7.32-11	2.12-11
							3.03-09	2.72-10

AIR SCATTERING 3.18 02 ENERGY 4.00 ANGLE 9.00 01 DIST. 1.22 03
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.	2.61-08	1.47-09	0.
4.00 01	0.	0.	0.	0.	0.	0.	1.49-08	0.
6.00 01	0.	0.	0.	0.	0.	0.	7.70-09	0.
8.00 01	0.	0.	0.	0.	0.	0.	1.61-09	3.16-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	9.27-10
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.	1.57-09	5.24-09	1.19-09

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.	1.66-08	9.35-10	8.34-09
4.00 01	0.	0.	0.	0.	0.	0.	1.01-08	9.70-10
6.00 01	0.	0.	0.	0.	0.	0.	5.89-09	5.21-10
8.00 01	0.	0.	0.	0.	0.	0.	1.66-09	3.95-09
9.00 01	0.	0.	0.	0.	0.	0.	6.23-12	1.32-09
1.00 02	0.	0.	0.	0.	0.	0.	1.60-10	5.92-10
1.20 02	0.	0.	0.	0.	0.	0.	6.57-13	4.34-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	5.06-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	8.91-11
1.80 02	0.	0.	0.	0.	0.	0.	1.66-11	4.83-13
	0.	0.	0.	0.	0.	1.00-09	3.95-09	2.72-09
	0.	0.	0.	0.	0.	1.86-10	4.51-10	5.56-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.02-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.69-12
6.00 01	0.	0.	0.	0.	0.	0.	3.07-10	3.87-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	6.97-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.40-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	9.70-10
1.20 02	0.	0.	0.	0.	0.	0.	6.28-12	2.04-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.67-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.85-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	8.36-11	4.18-10
	0.	0.	0.	0.	0.	0.	8.16-11	1.86-10

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.	2.47-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.39-10
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.	1.21-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	0.	0.	1.42-10
	0.	0.	0.	0.	0.	0.	0.	9.83-11

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.	1.74-10
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.	2.75-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.40-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.89-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.68-12
	0.	0.	0.	0.	0.	0.	0.	5.61-11
	0.	0.	0.	0.	0.	0.	0.	4.71-11

156571724765 036640156301

AIR SCATTERING 3.18 02 ENERGY 4.00 ANGLE 9.00 01 DIST. 1.22 03

2.80 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.	5.37-09	
0.	0.	0.	0.	0.	0.	0.	1.49-09	
0.	0.	0.	0.	0.	0.	0.	7.70-10	
0.	0.	0.	0.	0.	0.	0.	4.14-10	
0.	0.	0.	0.	0.	0.	0.	7.42-11	
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.		
							9.34-10	

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		
1.66-09	4.29-10	7.67-10	2.53-11	1.08-10	6.60-14	4.84-25	4.22-09	9.20-10
3.67-10	2.03-10	1.85-10	2.14-10	3.91-11	4.81-15	3.95-26	1.12-09	1.74-10
2.65-10	2.66-10	1.35-10	8.35-10	7.90-12	4.86-15	8.17-28	6.72-10	1.25-10
2.41-10	2.15-10	3.95-10	1.69-10	3.40-11	3.38-13	2.12-25	5.17-10	5.86-11
4.10-10	3.90-10	4.91-10	1.32-10	3.71-11	1.56-13	3.06-21	1.59-10	1.89-11
1.19-10	1.77-10	3.23-10	6.34-10	1.17-11	3.80-14	9.08-26	9.43-11	2.93-11
1.58-10	7.52-11	9.65-11	1.66-10	1.80-11	1.96-12	1.28-22	5.20-11	1.07-11
7.46-11	4.65-10	1.78-10	5.02-11	7.43-12	4.52-13	3.80-20	6.68-11	2.21-11
6.85-11	5.70-11	9.83-11	6.03-11	4.93-12	1.56-14	3.84-25	1.66-11	5.33-12
1.14-09	5.57-11	2.98-11	1.09-10	1.59-12	6.20-15	3.00-33	7.47-11	4.78-11
5.57-10	4.62-10	4.82-10	5.34-10	4.38-11	9.13-13	1.07-20		
1.03-10	9.77-11	1.08-10	2.36-10	1.52-11	5.25-13	9.97-21	8.83-10	8.35-11

PHI 45 TO 90 DEGREES

6.34-10	2.11-10	1.11-10	3.85-11	3.56-12	4.65-16	1.87-27	2.10-10	1.64-10
1.40-10	1.71-09	2.04-10	3.80-10	1.55-11	3.33-16	1.77-21	8.12-11	5.71-11
8.28-11	3.01-10	1.83-10	2.74-10	2.47-11	4.23-14	3.31-27	5.84-11	3.12-11
1.93-10	3.83-10	1.28-10	1.04-09	1.77-11	2.42-14	1.02-24	4.98-11	1.63-11
1.25-10	7.39-11	5.29-11	3.21-10	2.54-12	1.63-12	2.97-25	5.15-11	3.32-11
3.15-10	1.85-10	3.06-10	9.02-11	3.84-12	1.18-14	1.55-24	1.12-10	5.65-11
8.71-11	1.34-10	1.13-10	1.12-10	1.57-10	7.18-13	3.21-22	1.93-11	4.47-12
1.43-10	9.87-11	3.82-11	4.82-11	6.92-12	9.19-15	5.45-22	1.60-11	5.15-12
5.13-11	9.92-10	1.77-10	6.07-11	4.07-12	1.88-14	8.30-26	4.46-11	3.35-11
2.28-12	4.18-11	7.72-11	1.55-10	9.67-11	7.20-16	1.76-25	6.97-12	2.97-12
3.00-10	8.05-10	2.77-10	6.20-10	7.59-11	5.44-13	5.58-22		
6.09-11	3.53-10	5.78-11	3.32-10	3.92-11	3.29-13	2.96-22	1.06-10	2.25-11

PHI 90 TO 135 DEGREES

7.90-11	1.33-10	1.31-10	2.09-10	8.15-11	2.14-14	4.53-26	1.68-11	7.24-12
2.97-10	2.28-10	3.89-10	8.76-11	4.36-11	2.62-14	6.68-20	3.72-11	1.46-11
2.73-10	1.20-10	1.15-10	2.74-11	7.86-12	5.88-14	3.22-22	2.40-11	7.88-12
1.38-10	5.41-11	1.04-10	1.04-10	9.81-12	1.42-15	8.98-26	3.41-11	2.06-11
5.73-10	1.89-10	1.41-10	8.16-11	1.08-11	3.10-14	1.95-25	4.59-11	1.69-11
4.37-11	2.21-10	1.66-10	1.50-10	5.96-11	1.32-13	5.14-23	4.47-11	2.67-11
8.87-11	1.97-10	3.26-11	8.09-11	2.21-11	1.57-13	1.44-21	1.47-11	4.78-12
6.09-11	6.37-11	7.63-11	2.03-10	1.61-09	2.68-13	1.88-25	3.01-11	1.94-11
8.29-11	1.59-10	8.17-11	1.33-09	1.65-12	2.26-14	1.91-24	3.36-11	2.01-11
4.58-11	2.56-12	5.07-11	1.37-11	1.15-11	5.40-17	6.79-23	4.40-12	2.57-12
3.43-10	2.77-10	2.42-10	4.22-10	4.65-10	1.77-13	1.22-20		
8.17-11	6.62-11	5.39-11	2.23-10	4.26-10	8.19-14	1.13-20	5.96-11	1.24-11

PHI 135 TO 180 DEGREES

7.97-10	1.23-10	1.19-10	4.71-11	3.44-12	5.22-15	1.07-24	5.58-11	3.43-11
3.30-10	5.32-10	1.56-10	8.93-12	1.03-11	8.19-12	1.48-21	4.30-11	1.58-11
7.12-11	4.80-11	1.09-10	2.13-11	5.80-11	3.37-13	2.20-26	2.35-11	1.43-11
1.38-10	1.73-11	4.35-11	9.47-11	1.45-10	3.21-15	1.49-25	1.31-11	5.29-12
5.93-11	9.08-11	3.66-10	7.49-11	3.97-11	1.55-13	8.39-26	1.72-11	7.15-12
8.79-10	1.26-10	1.13-10	4.36-11	1.07-11	4.39-15	9.01-28	6.07-11	5.18-11
5.23-11	1.05-10	8.33-11	1.99-11	9.12-12	1.34-14	1.65-27	1.15-11	3.98-12
1.35-09	2.16-11	1.55-10	3.87-11	5.35-10	1.94-13	4.12-22	9.27-11	8.00-11
1.53-10	1.34-10	6.43-11	1.48-10	6.97-12	6.55-16	8.82-20	1.80-11	1.16-11
2.26-12	7.33-12	4.79-11	1.31-11	3.94-12	1.39-14	1.32-24	2.01-12	1.01-12
7.35-10	2.19-10	2.43-10	1.05-10	2.20-10	1.60-12	1.57-20		
5.07-10	6.44-11	6.67-11	2.80-11	1.87-10	1.51-12	1.54-20	6.66-11	3.09-11
							1.75-09	1.54-10

AIR SCATTERING 5.19 02 ENERGY 4.00 ANGLE 1.35 02 DIST. 1.22 03
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.	0.	0.	5.10-08	0.
4.00 01	0.	0.	0.	0.	0.	0.	9.18-10	1. 9-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.15-10
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.	3.23-09	2.29-09

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.	3.25-08	5.54-10
4.00 01	0.	0.	0.	0.	0.	0.	1.53-09	1.04-08
6.00 01	0.	0.	0.	0.	0.	0.	7.54-12	1.79-09
8.00 01	0.	0.	0.	0.	0.	0.	2.34-12	4.63-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.79-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	3.29-11
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.37-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.88-16
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.	2.23-09	2.53-09
	0.	0.	0.	0.	0.	0.	2.85-10	1.94-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	5.04-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.51-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.51-10
8.00 01	0.	0.	0.	0.	0.	0.	7. 0=13	2.47-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.53-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.19-12
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.	2.41-13	2.42-10
	0.	0.	0.	0.	0.	0.	2.41-13	6.81-11

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.08-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.32-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	4.85-12
8.00 01	0.	0.	0.	0.	0.	0.	0.	9.92-16
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.62-11
1.00 02	0.	0.	0.	0.	0.	0.	1.45-12	4.77-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	5.40-13
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.	2.53-13	5.79-11
	0.	0.	0.	0.	0.	0.	2.53-13	3.06-11

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	5.03-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	3.07-12
6.00 01	0.	0.	0.	0.	0	0.	0.	3.57-12
8.00 01	0.	0.	0.	0.		0.	0.	0.
9.00 01	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.	4.52-12
	0.	0.	0.	0.	0.	0.	0.	2.66-12

074666615475 266105076451

AIR SCATTERING 3.19 02 ENERGY 4.00 ANGLE 1.35 02 DIST. 1.22 03

2.50 01	1.77 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.	5.10-09		
0.	0.	0.	0.	0.	0.	0.	1.12-09		
0.	0.	0.	0.	0.	0.	0.	1.72-11		
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.			
							5.07-10		

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			
2.26-10	1.54-10	8.48-11	2.18-10	1.10-12	1.80-15	3.65-25	3.31-09	4.14-10	
6.02-10	5.94-10	7.02-10	1.76-10	1.94-11	1.56-14	4.42-27	1.06-09	9.99-11	
3.59-10	5.78-10	3.46-10	1.95-10	2.59-11	4.65-14	1.75-27	1.98-10	3.30-11	
1.76-10	1.47-10	3.95-10	5.56-10	1.08-10	1.24-14	2.59-26	7.22-11	1.61-11	
9.85-11	6.21-11	4.62-10	5.17-11	4.61-11	5.83-15	1.13-24	4.29-11	1.81-11	
6.61-11	7.65-11	5.51-11	5.15-11	1.54-11	8.50-14	1.51-25	1.16-11	2.77-12	
1.79-10	6.25-10	5.56-11	5.31-11	1.51-11	9.76-14	1.35-20	3.66-11	2.01-11	
2.42-10	1.90-10	8.35-11	6.81-11	1.30-12	3.44-15	9.13-28	2.44-11	1.06-11	
1.13-10	7.75-11	5.56-10	6.31-11	1.23-12	8.77-17	2.76-25	2.39-11	1.37-11	
3.75-10	4.66-11	1.52-09	1.14-11	2.62-13	3.10-17	3.37-27	6.08-11	4.12-11	
4.65-10	6.09-10	6.67-10	3.42-10	6.16-11	6.78-14	4.39-21			
8.87-11	2.78-10	1.98-10	1.15-10	2.18-11	3.21-14	4.34-21	4.97-10	3.74-11	

PHI 45 TO 90 DEGREES

7.72-11	1.27-10	2.60-10	7.97-11	1.22-10	2.25-15	1.32-24	5.84-11	2.30-11	
1.86-10	1.02-09	8.22-10	9.91-11	2.86-12	1.61-16	1.58-25	9.72-11	3.09-11	
1.45-10	5.62-10	2.64-10	6.18-11	4.37-11	3.35-14	3.80-22	5.68-11	1.46-11	
2.07-10	2.98-10	1.18-09	9.14-11	1.93-11	5.53-13	7.91-24	7.30-11	2.12-11	
1.81-10	6.67-10	4.76-11	5.31-11	1.02-11	3.05-14	7.45-24	3.70-11	1.73-11	
1.57-09	3.95-10	5.25-10	1.12-10	1.19-11	2.04-15	2.63-23	1.23-10	6.72-11	
2.94-10	7.33-11	9.14-10	6.91-11	1.32-11	4.54-14	1.05-24	4.34-11	2.06-11	
1.64-11	1.76-10	8.60-11	2.51-11	6.21-12	3.07-15	1.13-21	9.84-12	4.32-12	
2.21-10	1.77-10	6.53-11	3.77-11	4.41-11	1.48-15	2.97-25	2.23-11	1.01-11	
3.62-13	1.91-10	6.37-12	1.04-11	1.75-11	1.41-15	3.40-24	7.43-12	5.44-12	
5.83-10	7.29-10	1.05-09	1.33-10	4.43-11	2.11-13	4.12-22			
2.08-10	1.95-10	3.74-10	2.82-11	1.39-11	1.68-13	3.18-22	1.08-10	2.07-11	

PHI 90 TO 135 DEGREES

1.27-10	2.72-10	7.63-10	1.61-10	2.15-10	1.49-14	1.92-23	5.74-11	2.15-11	
1.88-10	1.01-10	4.39-10	1.37-10	4.63-11	6.33-16	1.15-27	4.66-11	1.63-11	
2.52-10	4.16-11	6.01-11	3.66-10	4.66-11	3.95-15	5.48-22	2.45-11	7.74-12	
7.56-11	1.84-09	7.76-11	4.39-11	6.56-12	1.86-13	6.08-23	7.32-11	6.32-11	
6.90-11	7.01-11	9.88-11	2.00-11	3.74-12	2.29-13	1.05-20	1.07-11	3.84-12	
1.81-10	5.34-12	1.98-11	3.60-10	1.78-11	1.11-12	4.03-22	1.77-11	1.10-11	
7.26-11	8.86-12	1.01-09	6.87-11	3.28-11	6.73-13	3.63-25	3.05-11	2.37-11	
1.09-10	2.47-10	3.16-11	1.21-11	1.61-12	1.68-12	3.74-27	1.64-11	9.36-12	
1.99-10	4.75-11	4.82-11	2.26-11	1.69-11	7.62-16	7.40-24	1.53-11	1.04-11	
8.26-11	1.02-12	3.37-10	8.15-12	3.97-13	2.01-16	6.18-23	1.32-11	8.72-12	
2.67-10	7.34-10	5.52-10	2.41-10	5.34-11	9.63-13	2.06-21			
6.10-11	5.75-10	3.36-10	1.48-10	2.04-11	7.03-13	1.83-21	6.46-11	2.29-11	

PHI 135 TO 180 DEGREES

9.85-10	1.58-10	5.40-11	1.14-10	2.02-11	9.92-15	6.01-22	7.20-11	5.29-11	
5.27-10	2.25-10	3.07-10	1.10-10	2.57-11	1.50-14	1.23-21	4.93-11	1.88-11	
6.86-10	9.86-11	8.97-11	1.04-10	2.96-11	4.09-13	1.17-21	4.91-11	2.13-11	
1.38-10	9.27-11	5.91-10	1.01-10	3.91-11	1.18-14	1.72-19	2.78-11	1.34-11	
3.69-11	9.96-11	2.51-11	6.18-12	7.73-12	5.48-14	4.98-32	6.59-12	3.58-12	
6.95-12	1.67-10	4.06-11	2.47-11	2.78-11	4.41-14	4.34-24	8.10-12	4.16-12	
5.60-12	4.19-11	9.96-11	6.35-10	1.09-11	3.25-14	2.12-23	1.39-11	9.32-12	
1.25-10	4.66-11	1.21-10	1.59-11	4.63-12	5.69-13	3.90-25	1.24-11	5.85-12	
1.33-11	4.68-11	2.34-10	1.65-09	8.25-12	1.81-14	1.15-22	3.29-11	2.47-11	
1.26-12	4.92-11	3.96-12	1.37-12	4.31-11	2.03-15	2.49-29	2.48-12	1.32-12	
4.24-10	1.88-10	3.90-10	5.90-10	4.13-11	2.98-13	5.68-20			
1.22-10	4.01-11	1.78-10	4.82-10	1.46-11	1.38-13	5.62-20	5.13-11	1.39-11	
							1.13-09	9.95-11	

AIR SCATTERING 3.20 02 ENERGY 4.00 ANGLE 1.80 02 DIST. 1.22 03
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.	8.70-08
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.	5.25-09

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.	5.10-12	5.89-08
4.00 01	0.	0.	0.	0.	0.	0.	0.	7.26-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.65-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.35-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.81-12
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	0.	0.	0.	5.73-11
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.	3.07-13	3.75-09
	0.	0.	0.	0.	0.	0.	2.54-13	3.02-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.91-11	4.25-09
4.00 01	0.	0.	0.	0.	0.	0.	6.30-15	5.43-10
6.00 01	0.	0.	0.	0.	0.	0.	6.42-14	2.22-09
8.00 01	0.	0.	0.	0.	0.	0.	4.07-12	2.46-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.02-11
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.	9.36-11
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.	2.50-12	9.78-10
	0.	0.	0.	0.	0.	0.	1.61-12	5.98-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.43-10	8.05-09
4.00 01	0.	0.	0.	0.	0.	0.	6.40-12	3.63-10
6.00 01	0.	0.	0.	0.	0.	1.77-14	4.86-15	7.20-11
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.34-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	8.90-12
1.00 02	0.	0.	0.	0.	0.	0.	7.43-12	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.	4.70-15	1.71-11	5.73-10
	0.	0.	0.	0.	0.	4.70-15	1.47-11	2.43-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	3.42-11	3.06-09
4.00 01	0.	0.	0.	0.	0.	0.	3.83-13	1.69-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.52-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	6.77-12
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.54-12
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.	2.13-12	5.22-10
	0.	0.	0.	0.	0.	0.	1.95-12	2.35-10

025600565725 171454770265

AIR SCATTERING 3.20 02 ENERGY 4.00 ANGLE 1.80 02 DIST. 1.22 03
3.30 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.	6.96-09
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.
							4.20-10

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		
2.39-10	5.72-10	2.76-10	1.50-10	2.65-11	2.05-15	1.45-24	4.76-09	3.88-10
7.42-10	3.26-10	4.14-10	7.06-11	9.61-12	2.87-14	5.56-24	1.25-10	3.19-11
1.18-10	4.32-10	6.45-10	8.93-11	7.48-12	4.58-13	6.95-26	5.28-11	1.92-11
6.16-10	1.89-10	7.01-11	6.46-11	1.19-11	1.77-14	2.73-22	4.92-11	2.06-11
4.82-11	6.90-11	1.27-11	3.44-11	4.00-11	2.85-15	2.16-24	6.98-12	2.35-12
9.42-11	6.19-11	3.22-11	1.30-10	9.51-12	2.15-15	4.72-23	1.07-11	4.72-12
2.11-10	9.90-10	1.46-10	3.65-11	2.44-11	1.18-14	1.24-19	5.72-11	3.30-11
1.51-10	2.15-10	8.95-11	3.13-11	7.45-12	1.86-14	3.37-24	1.95-11	8.48-12
8.90-11	2.00-10	8.51-12	6.79-12	3.85-11	6.22-15	9.92-25	1.33-11	5.43-12
1.14-10	5.98-11	3.82-10	8.21-13	1.03-11	1.02-20	0.	1.83-11	1.07-11
5.32-10	7.09-10	3.87-10	1.16-10	3.50-11	1.44-13	4.07-20		
1.38-10	2.96-10	1.18-10	2.91-11	1.04-11	1.20-13	4.06-20	3.69-10	3.16-11

PHI 45 TO 90 DEGREES

2.50-10	1.12-09	1.26-10	2.45-10	2.88-12	5.98-15	1.62-25	4.04-10	2.33-10
1.64-10	1.30-10	1.48-10	1.42-10	4.46-11	1.03-15	4.95-23	6.41-11	1.50-11
3.90-10	1.44-10	7.83-11	1.33-10	2.37-11	3.91-13	1.51-24	2.11-10	1.30-10
3.20-09	1.47-10	1.21-10	5.02-11	2.32-11	4.86-14	2.16-21	2.03-10	1.71-10
1.63-10	2.89-10	2.11-09	4.73-11	1.01-12	6.60-13	1.30-20	7.32-11	5.09-11
2.52-10	4.78-11	5.13-11	5.63-12	1.47-12	1.04-14	1.93-22	1.82-11	1.15-11
2.83-11	7.82-11	8.41-11	1.56-10	8.27-11	3.17-13	1.76-24	9.86-12	3.22-12
2.12-10	4.68-11	1.72-10	8.40-11	6.35-12	2.21-15	4.00-27	2.74-11	1.02-11
8.37-11	8.39-11	1.16-12	1.50-11	1.84-11	9.29-16	1.56-24	8.52-12	4.76-12
1.15-10	1.79-11	4.38-11	4.39-12	3.28-14	6.67-15	1.30-29	8.67-12	6.86-12
1.35-09	2.89-10	5.45-10	1.76-10	5.41-11	3.42-13	3.00-21		
9.36-10	7.67-11	3.70-10	4.76-11	2.16-11	1.46-13	2.36-21	1.86-10	1.04-10

PHI 90 TO 135 DEGREES

2.29-10	6.63-10	9.02-11	5.95-11	7.37-12	9.68-15	7.68-29	7.09-10	3.24-10
1.10-10	1.50-10	2.28-10	2.38-10	1.82-11	5.03-14	6.64-22	5.09-11	1.13-11
1.71-10	1.05-10	2.97-10	4.00-10	2.13-11	9.19-14	6.22-20	3.32-11	8.95-12
1.20-10	5.22-10	1.09-10	8.20-10	1.33-10	2.04-13	7.38-19	4.35-11	1.72-11
9.66-11	3.89-10	1.97-10	9.99-11	2.75-11	7.93-14	7.48-23	2.71-11	9.45-12
4.88-10	4.01-10	1.38-10	8.49-11	9.01-12	2.64-14	2.27-25	4.92-11	2.17-11
6.56-11	1.15-10	5.49-11	4.82-11	4.15-12	1.87-14	1.03-17	1.02-11	3.07-12
6.63-12	3.46-11	8.62-11	3.68-11	5.95-11	2.34-13	3.82-19	4.98-12	2.06-12
1.10-11	5.78-11	5.06-11	7.54-12	3.44-11	1.30-12	1.34-28	4.01-12	1.45-12
4.59-10	1.68-11	8.74-12	1.20-12	2.86-10	4.63-14	2.07-31	3.18-11	2.60-11
2.72-10	4.59-10	2.64-10	4.78-10	9.93-11	4.16-13	3.73-18		
7.06-11	1.51-10	5.06-11	2.42-10	4.62-11	2.94-13	3.49-18	9.51-11	2.14-11

PHI 135 TO 180 DEGREES

2.49-10	1.70-10	1.10-10	3.60-10	1.31-11	6.22-13	4.49-21	2.78-10	1.16-10
2.12-10	1.95-10	1.83-10	1.10-10	3.56-11	2.73-15	1.62-23	1.62-10	1.01-10
1.55-10	1.11-10	7.08-11	4.01-10	2.17-11	3.52-14	7.85-24	3.35-11	8.64-12
3.18-10	1.41-10	2.42-10	1.48-10	8.73-11	3.45-14	4.73-25	3.38-11	9.11-12
1.12-10	5.50-10	2.68-10	1.43-10	5.48-11	6.92-14	5.18-24	3.60-11	1.79-11
2.29-10	7.86-11	8.69-10	1.40-11	2.53-11	4.96-13	1.60-26	3.79-11	1.98-11
7.94-11	1.02-11	5.25-11	6.13-11	3.44-11	2.57-14	1.81-25	7.72-12	3.69-12
1.80-11	1.24-11	2.31-11	3.01-11	1.35-11	9.73-15	3.55-20	2.70-12	8.39-13
1.54-11	2.47-10	1.57-11	1.60-11	4.38-12	1.71-16	6.36-22	1.05-11	8.60-12
4.45-10	1.17-10	4.18-12	5.81-12	6.08-13	3.55-16	0.	3.11-11	2.57-11
3.16-10	2.85-10	3.60-10	2.54-10	7.08-11	1.68-13	9.83-21		
7.01-11	1.07-10	1.31-10	1.04-10	2.21-11	8.17-14	9.45-21	8.45-11	2.04-11
							1.15-09	2.02-10

AIR SCATTERING 3.21 02 ENERGY 2.00 ANGLE 1.00 DIST. 1.22 03
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	1.09-05	0.	0.	0.	0.	0.	0.	0.
4.00 01	5.56-07	1.30-06	1.07-06	0.	0.	0.	0.	0.
6.00 01	0.	0.	6.94-07	0.	0.	0.	0.	0.
8.00 01	0.	0.	0.	9.87-07	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.	1.28-06	0.	0.
1.40 02	0.	0.	0.	0.	0.	9.20-07	0.	0.
1.60 02	0.	0.	0.	0.	0.	1.31-06	8.80-07	0.
1.80 02	0.	0.	0.	0.	0.	0.	5.37-06	0.
	7.54-07	2.26-07	3.70-07	3.22-07	0.	8.88-07	4.77-07	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	6.94-06	7.80-08	0.	0.	7.73-09	0.	0.	8.06-09
4.00 01	3.54-07	8.27-07	6.81-07	0.	0.	0.	0.	1.46-09
6.00 01	0.	0.	4.42-07	0.	0.	0.	3.57-10	2.76-09
8.00 01	0.	0.	0.	6.28-07	0.	0.	0.	7.69-11
9.00 01	0.	0.	0.	0.	0.	0.	8.19-11	3.68-10
1.00 02	0.	0.	0.	0.	0.	0.	2.20-12	2.25-09
1.20 02	0.	0.	0.	0.	0.	8.12-07	1.27-10	8.14-10
1.40 02	0.	0.	0.	0.	0.	5.86-07	1.56-10	9.00-09
1.60 02	0.	0.	0.	0.	0.	8.33-07	5.61-07	4.36-10
1.80 02	0.	0.	0.	0.	0.	9.00-11	3.44-06	4.92-10
	4.80-07	1.48-07	2.36-07	2.05-07	4.66-10	5.66-07	3.05-07	4.72-09
	1.13-07	1.44-07	1.67-07	2.05-07	4.66-10	3.25-07	8.54-08	2.65-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.03-08	0.	4.14-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.61-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	9.50-10
8.00 01	0.	0.	0.	0.	0.	0.	6.08-12	5.06-10
9.00 01	0.	0.	0.	0.	0.	0.	5.53-10	2.86-09
1.00 02	0.	0.	0.	0.	0.	1.62-11	1.28-09	1.37-09
1.20 02	0.	0.	0.	0.	0.	1.43-11	1.96-10	1.58-09
1.40 02	0.	0.	0.	0.	0.	5.09-12	6.41-10	1.36-09
1.60 02	0.	0.	0.	0.	3.80-14	6.23-11	1.73-09	6.86-10
1.80 02	0.	0.	0.	0.	0.	4.52-11	1.22-08	1.69-09
	0.	0.	0.	0.	6.61-15	6.44-10	1.59-09	2.30-09
	0.	0.	0.	0.	6.60-15	6.22-10	5.54-10	5.74-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	6.99-09	2.35-08
4.00 01	0.	0.	0.	0.	0.	0.	2.28-11	3.99-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	5.86-10
8.00 01	0.	0.	0.	0.	0.	0.	2.12-14	5.54-10
9.00 01	0.	0.	0.	0.	0.	0.	3.30-12	2.98-09
1.00 02	0.	0.	0.	0.	0.	0.	7.46-11	1.99-10
1.20 02	0.	0.	0.	0.	0.	8.94-13	1.50-10	8.09-10
1.40 02	0.	0.	0.	0.	4.13-11	4.32-11	1.47-10	1.55-10
1.60 02	0.	0.	0.	0.	7.43-12	4.31-10	1.07-09	5.98-09
1.80 02	0.	0.	0.	0.	3.48-13	2.04-11	9.33-09	1.47-09
	0.	0.	0.	0.	1.23-11	8.79-11	1.28-09	3.81-09
	0.	0.	0.	0.	1.11-11	7.14-11	5.08-10	1.73-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	4.72-10
4.00 01	0.	0.	0.	0.	0.	0.	6.73-10	1.27-08
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.89-10
8.00 01	0.	0.	0.	0.	0.	0.	2.32-10	3.11-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.97-10
1.00 02	0.	0.	0.	0.	0.	0.	9.73-12	1.23-09
1.20 02	0.	0.	0.	0.	0.	2.63-12	5.83-11	5.70-10
1.40 02	0.	0.	0.	0.	0.	6.15-12	4.99-09	2.83-10
1.60 02	0.	0.	0.	0.	9.01-13	1.41-10	1.64-09	1.38-10
1.80 02	0.	0.	0.	4.67-12	1.18-10	7.21-11	7.18-09	2.71-10
	0.	0.	0.	2.82-13	7.27-12	3.13-11	2.26-09	3.11-09
	0.	0.	0.	2.20-13	7.11-12	2.41-11	1.35-09	2.15-09

242311411145 135566037705

AIR SCATTERING 3.21 02 ENERGY 2.00 ANGLE 1.00 DIST. 1.22 03
3.30 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.	6.54-06
0.	0.	0.	0.	0.	0.	0.	1.15-06
0.	0.	0.	0.	0.	0.	0.	2.78-07
0.	0.	0.	0.	0.	0.	0.	1.97-07
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.40-07
0.	0.	0.	0.	0.	0.	0.	1.01-07
0.	0.	0.	0.	0.	0.	0.	2.06-07
0.	0.	0.	0.	0.	0.	0.	3.76-07
0.	0.	0.	0.	0.	0.	0.	8.64-07

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		
3.15-10	9.19-11	1.14-10	1.06-10	5.20-12	2.98-17	6.70-26	4.19-06	9.45-07
3.77-10	1.26-10	6.55-10	2.06-11	2.07-10	2.85-15	7.12-24	7.33-07	4.25-07
7.18-10	1.31-09	1.51-10	1.83-11	2.90-12	7.56-15	9.04-20	1.77-07	1.77-07
2.08-10	4.94-10	4.24-10	5.46-11	4.12-12	4.44-15	4.71-21	1.26-07	1.26-07
3.76-10	1.25-10	1.11-10	4.57-11	1.83-12	1.66-14	6.20-25	4.34-11	1.33-11
3.74-10	9.37-10	2.93-10	2.79-11	1.20-12	1.18-16	2.75-23	1.55-10	9.47-11
5.75-10	5.40-10	2.27-10	8.59-11	8.43-11	3.36-16	1.63-22	8.94-08	8.93-08
2.86-10	5.65-10	1.39-10	9.56-11	4.71-12	4.03-16	2.18-22	6.49-08	6.44-08
9.61-10	7.52-10	1.20-10	4.52-11	8.06-13	3.86-18	7.39-28	1.31-07	7.23-08
1.12-09	8.16-10	1.19-10	3.79-11	5.95-12	4.23-17	1.27-29	2.41-07	5.73-08
9.72-10	1.23-09	5.08-10	1.09-10	6.82-11	7.07-15	2.57-20		
1.90-10	3.61-10	1.30-10	2.77-11	4.18-11	4.53-15	2.41-20	5.52-07	~~9.76-10~~

PHI 45 TO 90 DEGREES

8.80-11	3.68-10	1.21-10	1.67-11	4.98-12	6.11-18	6.52-23	1.15-09	1.13-09
1.73-10	2.57-10	4.63-10	3.11-11	1.43-12	8.14-17	2.53-25	3.50-11	1.31-11
2.79-09	6.72-11	1.25-10	4.00-10	1.52-12	2.69-15	5.55-25	1.56-10	6.92-11
3.63-10	2.47-10	1.12-10	4.65-11	5.71-12	3.00-13	1.43-23	4.75-11	2.38-11
2.03-10	3.80-10	1.42-10	4.08-11	7.42-13	5.88-16	1.05-24	2.01-10	9.36-11
2.79-10	1.02-10	1.04-10	3.84-10	6.02-11	7.85-15	4.39-25	1.79-10	1.52-10
2.14-10	5.08-10	1.34-10	1.07-10	3.94-11	2.83-17	9.93-24	1.18-10	4.18-11
6.29-10	1.75-10	2.33-10	2.82-10	3.52-11	8.07-15	1.54-22	1.48-10	5.42-11
1.72-09	4.91-10	2.42-10	4.47-11	1.07-11	1.30-16	6.34-22	2.41-10	9.03-11
2.21-10	2.17-10	3.57-10	7.27-11	1.62-11	2.40-18	1.11-29	9.66-10	5.61-10
1.53-09	5.60-10	3.69-10	3.24-10	3.84-11	1.02-13	1.63-22		
5.38-10	1.15-10	8.62-11	1.23-10	1.67-11	9.40-14	9.89-23	3.77-10	8.93-11

PHI 90 TO 135 DEGREES

4.74-10	2.23-12	1.74-09	4.78-11	2.04-13	6.64-18	1.22-25	1.72-09	1.25-09
4.51-10	1.12-10	2.62-10	4.86-11	4.50-13	1.65-17	1.40-24	4.62-11	1.70-11
1.23-10	7.00-10	1.08-10	5.16-12	2.32-11	3.81-17	3.75-28	5.30-11	2.17-11
9.27-11	4.67-11	4.35-11	3.18-10	2.15-10	3.63-16	1.26-23	3.84-11	1.31-11
4.67-10	8.63-11	4.88-10	5.10-11	1.43-11	6.64-17	3.16-21	1.79-10	1.01-10
5.26-10	8.79-10	2.29-10	2.77-10	1.01-11	3.63-17	1.43-22	6.26-11	2.02-11
5.89-10	1.95-10	8.12-10	2.01-10	5.07-11	1.64-16	2.89-24	9.57-11	2.44-11
5.73-10	8.39-10	2.74-10	1.86-10	1.53-11	7.67-17	5.02-24	7.73-11	1.85-11
3.02-10	2.48-10	1.12-10	1.21-10	2.44-12	1.13-16	2.54-24	4.43-10	2.84-10
5.92-10	1.10-09	2.82-10	5.99-11	4.56-12	1.79-18	2.24-24	7.82-10	3.19-10
7.75-10	7.85-10	6.91-10	3.13-10	1.02-10	2.43-16	5.81-22		
1.48-10	2.51-10	2.17-10	1.04-10	8.02-11	1.26-16	5.52-22	3.56-10	9.66-11

PHI 135 TO 180 DEGREES

7.78-11	3.45-10	4.07-10	1.98-10	1.04-13	2.43-20	8.23-28	4.48-11	2.58-11
1.18-10	9.99-10	9.34-11	6.91-11	1.88-11	2.71-17	4.76-26	7.15-10	6.18-10
2.73-10	7.34-11	8.19-11	2.18-11	2.00-12	2.31-16	6.47-28	4.79-11	3.05-11
4.36-10	1.13-10	1.15-10	4.73-11	5.84-11	5.36-13	1.33-25	5.36-11	2.52-11
4.27-11	2.04-10	1.51-10	2.98-11	2.23-11	7.09-17	1.53-23	2.98-11	1.07-11
2.80-10	6.37-11	7.11-11	3.36-11	1.72-11	2.81-16	9.44-25	7.56-11	4.31-11
1.98-10	4.09-10	4.66-10	6.21-11	4.73-12	5.08-16	1.63-23	5.98-11	1.57-11
8.76-10	2.81-10	2.64-10	1.28-10	1.77-11	1.59-15	2.83-21	4.09-10	3.39-10
2.59-10	5.39-10	5.51-10	3.71-10	8.06-12	5.32-16	2.15-27	1.75-10	5.20-11
1.37-09	5.95-10	5.54-10	2.49-10	1.06-11	4.34-18	3.20-25	6.20-10	1.68-10
7.22-10	6.35-10	4.90-10	1.90-10	3.80-11	1.76-13	7.60-22		
2.02-10	1.59-10	1.36-10	5.01-11	1.94-11	1.75-13	7.54-22	3.72-10	1.44-10
							8.68-07	1.84-07

AIR SCATTERING 3.22 02 ENERGY 2.00 ANGLE 1.50 01 DIST. 1.22 03
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	3.10-07	2.64-07	0.	0.	0.	0.	0.	0.
4.00 01	0.	2.46-08	8.49-08	0.	0.	0.	0.	0.
6.00 01	0.	0.	9.01-09	5.69-08	0.	0.	0.	0.
8.00 01	0.	0.	0.	4.34-09	5.23-08	0.	0.	0.
9.00 01	0.	0.	0.	0.	2.52-08	2.13-08	0.	0.
1.00 02	0.	0.	0.	0.	0.	5.59-08	0.	0.
1.20 02	0.	0.	0.	0.	0.	5.30-08	0.	0.
1.40 02	0.	0.	0.	0.	0.	4.39-08	1.94-08	0.
1.60 02	0.	0.	0.	0.	0.	0.	1.10-07	0.
1.80 02	0.	0.	0.	0.	0.	0.	2.34-08	0.
	1.87-08	2.02-08	1.71-08	1.66-08	2.15-08	4.24-08	2.57-08	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	1.97-07	1.66-07	0.	0.	2.04-09	0.	0.	1.93-11
4.00 01	0.	1.57-08	5.40-08	0.	0.	0.	0.	1.87-09
6.00 01	0.	0.	5.74-09	3.62-08	0.	0.	0.	1.01-09
8.00 01	0.	0.	0.	2.76-09	3.33-08	0.	1.18-10	8.46-10
9.00 01	0.	0.	0.	0.	1.60-08	1.35-08	9.08-11	1.61-09
1.00 02	0.	0.	0.	0.	1.42-08	3.56-08	1.41-10	8.85-10
1.20 02	0.	0.	0.	0.	0.	3.37-08	1.24-09	9.66-10
1.40 02	0.	0.	0.	0.	0.	2.79-08	1.76-08	8.18-10
1.60 02	0.	0.	0.	0.	0.	7.15-11	8.75-08	2.24-10
1.80 02	0.	0.	0.	0.	1.65-13	4.11-11	2.19-08	3.80-10
	1.19-08	1.29-08	1.09-08	1.05-08	1.62-08	2.70-08	2.17-08	1.90-09
	1.61-09	2.87-09	2.37-09	3.17-09	5.03-09	4.38-09	2.37-09	4.17-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	3.44-09	4.45-09	0.	1.02-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.58-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.02-09
8.00 01	0.	0.	0.	0.	0.	0.	5.25-11	3.51-10
9.00 01	0.	0.	0.	0.	0.	0.	3.39-11	1.59-09
1.00 02	0.	0.	0.	0.	0.	0.	9.37-10	1.36-09
1.20 02	0.	0.	0.	0.	0.	0.	6.46-10	6.58-10
1.40 02	0.	0.	0.	0.	0.	0.	3.58-09	1.56-10
1.60 02	0.	0.	0.	0.	1.24-10	2.04-10	1.25-08	2.12-10
1.80 02	0.	0.	0.	0.	8.09-13	1.16-11	2.55-09	2.52-10
	0.	0.	0.	0.	2.29-10	3.05-10	3.68-09	1.54-09
	0.	0.	0.	0.	2.08-10	2.70-10	1.64-09	3.64-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	3.43-09	2.21-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	5.46-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	9.93-10
8.00 01	0.	0.	0.	0.	0.	0.	5.15-10	2.36-10
9.00 01	0.	0.	0.	0.	0.	0.	5.53-13	7.23-10
1.00 02	0.	0.	0.	0.	0.	0.	1.37-09	2.33-10
1.20 02	0.	0.	0.	0.	0.	1.50-12	5.31-11	2.53-09
1.40 02	0.	0.	0.	0.	4.66-13	1.79-12	1.27-10	3.82-10
1.60 02	0.	0.	0.	0.	0.	8.96-11	1.51-09	1.36-10
1.80 02	0.	0.	0.	5.10-12	2.04-13	1.37-11	2.06-09	1.03-10
	0.	0.	0.	3.08-13	1.36-13	1.74-11	1.05-09	2.55-09
	0.	0.	0.	3.08-13	1.25-13	1.45-11	3.08-10	7.87-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	7.84-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	2.50-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.90-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	8.38-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.89-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	4.27-09
1.20 02	0.	0.	0.	0.	9.50-12	2.60-10	1.46-10	
1.40 02	0.	0.	0.	0.	7.14-14	1.88-10	2.37-10	
1.60 02	0.	0.	0.	0.	2.55-11	1.10-09	2.62-10	
1.80 02	0.	0.	0.	3.23-13	6.36-12	2.73-09	1.19-10	
	0.	0.	0.	0.	1.95-14	7.93-12	4.90-10	1.79-09
	0.	0.	0.	0.	1.95-14	5.14-12	2.10-10	8.06-10

135566037705 003025306555

AIR SCATTERING 3.22 02 ENERGY 2.00 ANGLE 1.50 01 DIST. 1.22 03
4.50 01 1.74 03 0. 0. 5.40 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.	2.65-07
0.	0.	0.	0.	0.	0.	0.	4.13-08
0.	0.	0.	0.	0.	0.	0.	1.50-08
0.	0.	0.	0.	0.	0.	0.	8.72-09
0.	0.	0.	0.	0.	0.	0.	6.12-09
0.	0.	0.	0.	0.	0.	0.	6.15-09
0.	0.	0.	0.	0.	0.	0.	5.83-09
0.	0.	0.	0.	0.	0.	0.	6.19-09
0.	0.	0.	0.	0.	0.	0.	7.71-09
0.	0.	0.	0.	0.	0.	0.	1.64-09
0.	0.	0.	0.	0.	0.	0.	3.71-08

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		
4.02-11	4.96-11	1.22-11	9.52-12	1.11-11	6.67-16	1.77-26	1.69-07	2.02-08
6.60-10	1.01-10	1.07-09	7.66-10	8.80-12	1.13-15	5.89-27	2.65-08	5.58-09
4.35-10	8.01-10	1.25-10	1.04-10	1.37-11	1.53-15	1.29-25	9.63-09	2.64-09
1.13-09	3.51-10	1.97-10	5.16-11	2.26-12	2.33-16	4.51-26	5.65-09	1.67-09
9.43-11	1.88-10	2.25-10	1.33-10	8.81-13	2.02-15	1.03-26	4.00-09	1.74-09
1.16-10	2.47-10	6.40-10	2.38-10	1.78-12	2.92-19	5.66-25	6.13-09	2.66-09
5.79-10	8.80-10	7.39-10	4.30-10	7.37-12	6.06-16	5.49-26	3.91-09	9.43-10
4.73-10	1.17-09	1.53-09	1.68-10	4.73-11	2.30-15	5.27-25	4.42-09	7.45-10
4.08-09	3.86-10	3.00-10	3.42-10	4.87-12	2.75-16	1.31-19	6.31-09	7.96-10
4.87-10	7.79-10	2.33-10	1.22-09	2.06-11	3.42-16	2.27-18	1.61-09	1.61-10
1.69-09	1.14-09	1.15-09	5.61-10	2.41-11	1.95-15	1.59-19		
6.02-10	4.09-10	4.21-10	1.88-10	1.23-11	7.43-16	1.59-19	2.46-08	1.89-09

PHI 45 TO 90 DEGREES

4.43-11	1.01-10	2.41-10	1.35-10	1.78-13	1.07-16	2.07-25	1.07-09	7.13-10
6.83-10	3.72-10	9.90-10	4.14-11	2.53-12	2.15-16	1.77-23	1.30-10	7.04-11
3.37-10	1.44-10	5.10-10	4.10-10	1.35-11	2.69-14	1.64-26	8.20-11	3.19-11
8.33-10	4.66-10	4.67-10	3.55-10	5.86-12	6.28-16	1.46-26	7.61-11	2.49-11
3.26-10	1.72-10	8.14-10	8.91-11	3.57-12	6.79-16	5.77-24	1.15-10	3.82-11
2.76-10	2.63-10	2.30-10	1.51-09	1.34-12	6.51-17	4.19-23	1.70-10	6.81-11
4.37-10	2.06-10	2.64-10	1.67-10	4.93-11	9.35-18	2.77-20	1.06-10	3.62-11
4.95-10	2.88-10	1.24-09	2.15-10	2.91-11	1.80-14	1.23-21	3.11-10	1.50-10
2.59-09	1.23-10	4.72-10	1.73-09	9.47-12	2.35-14	1.38-21	1.05-09	6.24-10
5.15-10	2.70-09	1.61-09	8.77-11	1.33-11	2.88-17	2.36-23	3.09-10	8.95-11
1.34-09	6.65-10	1.25-09	9.37-10	3.31-11	1.64-14	9.63-21		
3.70-10	1.25-10	3.43-10	5.73-10	1.33-11	9.08-15	8.11-21	5.02-10	1.27-10

PHI 90 TO 135 DEGREES

3.95-10	5.70-11	2.87-10	5.09-11	1.64-11	4.46-16	3.30-22	3.73-10	2.07-10
2.40-10	2.29-10	3.20-11	6.05-11	2.83-12	2.84-16	2.41-23	2.89-10	1.53-10
1.04-10	7.22-10	2.82-10	3.38-10	5.82-11	5.56-16	2.11-24	8.04-11	2.28-11
7.68-11	3.36-10	4.62-10	1.56-10	2.54-11	4.21-16	7.81-23	6.97-11	3.11-11
3.97-10	3.56-10	3.40-10	9.69-11	8.59-11	2.06-16	4.86-22	6.76-11	3.10-11
2.07-10	6.02-10	6.29-10	5.83-11	2.17-11	3.16-16	9.91-27	1.46-10	6.97-11
5.82-10	4.33-10	1.35-10	2.02-10	6.21-11	3.73-15	2.49-21	1.67-10	8.48-11
6.41-10	7.41-10	3.90-10	1.84-10	1.80-10	1.30-15	6.00-21	6.61-11	1.34-11
3.88-10	8.34-10	2.63-10	9.02-09	1.46-11	1.67-13	2.56-24	2.52-10	1.04-10
1.84-10	5.31-10	1.23-10	8.44-11	6.91-12	8.88-14	4.25-23	1.74-10	7.93-11
6.79-10	8.67-10	6.18-10	1.87-09	1.15-10	3.64-14	2.55-21		
1.25-10	1.74-10	1.44-10	1.32-09	7.35-11	3.43-14	1.66-21	2.80-10	5.25-11

PHI 135 TO 180 DEGREES

4.61-10	5.95-10	2.23-10	2.45-12	1.76-10	6.10-20	7.44-24	7.46-11	3.73-11
2.61-10	4.22-11	4.09-10	8.66-11	3.47-11	2.51-15	2.25-24	1.45-10	1.12-10
3.31-10	2.55-10	7.48-10	5.02-10	6.21-12	2.94-15	1.22-20	5.25-11	1.67-11
2.21-10	8.04-10	1.18-09	1.53-10	1.27-10	1.17-14	2.18-20	9.56-11	3.14-11
2.84-10	4.49-10	6.84-10	2.02-10	2.33-11	4.37-17	2.39-23	5.14-11	1.45-11
1.40-10	1.45-10	1.93-10	1.08-10	4.00-12	6.69-15	6.77-22	2.27-10	1.96-10
1.86-10	8.01-10	4.99-10	1.60-10	3.59-12	2.83-12	3.11-24	6.41-11	2.17-11
4.42-10	3.48-10	5.43-10	1.02-10	4.17-11	1.26-15	7.93-20	6.16-11	1.67-11
8.72-10	2.09-10	6.76-10	7.85-11	1.55-11	5.94-16	1.01-21	1.33-10	5.61-11
4.99-09	5.25-10	5.80-10	9.97-11	3.60-09	2.00-16	5.65-30	4.39-10	2.56-10
8.87-10	8.98-10	1.28-09	3.51-10	2.86-10	9.31-13	3.18-20		
2.65-10	2.48-10	3.95-10	1.32-10	2.19-10	9.26-13	2.25-20	2.10-10	4.74-11
							4.02-08	3.02-09

AIR SCATTERING 3.23 02 ENERGY 2.00 ANGLE 3.00 01 DIST. 1.22 03
1.25-03 1.07-02 3.20 01 1.97-06

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.	1.16-07	9.51-08	0.	0.	0.	0.	0.
4.00 01	0.	0.	1.69-08	3.22-08	0.	0.	0.	0.
6.00 01	0.	0.	0.	1.13-08	2.39-08	0.	0.	0.
8.00 01	0.	0.	0.	0.	1.43-08	1.24-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	2.55-08	0.	0.
1.00 02	0.	0.	0.	0.	0.	2.29-08	0.	0.
1.20 02	0.	0.	0.	0.	0.	2.33-08	0.	0.
1.40 02	0.	0.	0.	0.	0.	9.89-10	3.29-08	0.
1.60 02	0.	0.	0.	0.	0.	0.	8.82-09	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	6.97-09	8.67-09	8.58-09	1.10-08	2.03-08	1.03-08	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.	7.36-08	6.05-08	0.	0.	0.	0.	3.92-09
4.00 01	0.	0.	1.07-08	2.05-08	2.47-09	0.	7.12-10	1.72-09
6.00 01	0.	0.	0.	7.17-09	1.52-08	0.	1.13-10	1.96-09
8.00 01	0.	0.	0.	0.	9.09-09	9.78-09	1.30-11	1.12-09
9.00 01	0.	0.	0.	0.	0.	1.62-08	3.64-09	1.73-09
1.00 02	0.	0.	0.	0.	0.	1.45-08	1.56-09	6.86-10
1.20 02	0.	0.	0.	0.	0.	1.55-08	2.99-09	3.65-10
1.40 02	0.	0.	0.	0.	0.	1.37-09	3.02-08	2.70-10
1.60 02	0.	0.	0.	0.	0.	1.56-10	9.09-09	7.99-10
1.80 02	0.	0.	0.	0.	2.97-12	1.88-11	6.73-09	2.21-10
	0.	4.44-09	5.52-09	5.46-09	7.45-09	1.40-08	1.19-08	2.19-09
	0.	8.64-10	8.52-10	1.16-09	1.44-09	1.78-09	1.14-09	5.40-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	5.83-09	0.	3.28-11
4.00 01	0.	0.	0.	0.	0.	0.	0.	4.53-10
6.00 01	0.	0.	0.	0.	0.	0.	5.68-11	8.61-10
8.00 01	0.	0.	0.	0.	0.	0.	3.29-10	1.09-09
9.00 01	0.	0.	0.	0.	0.	0.	6.83-12	1.30-09
1.00 02	0.	0.	0.	0.	0.	0.	5.48-10	7.89-10
1.20 02	0.	0.	0.	0.	0.	2.44-12	1.94-10	4.87-10
1.40 02	0.	0.	0.	0.	0.	0.	5.76-10	4.53-10
1.60 02	0.	0.	0.	0.	4.55-11	6.51-12	4.70-09	2.25-10
1.80 02	0.	0.	0.	0.	0.	3.66-11	3.60-09	2.67-10
	0.	0.	0.	0.	7.90-12	3.56-10	1.46-09	1.31-09
	0.	0.	0.	0.	7.90-12	3.51-10	6.40-10	2.96-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	3.32-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	9.65-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.28-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	2.00-09
9.00 01	0.	0.	0.	0.	0.	0.	1.16-11	4.17-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.29-09
1.20 02	0.	0.	0.	0.	0.	2.44-12	2.87-11	2.74-10
1.40 02	0.	0.	0.	0.	0.	3.62-11	1.64-09	1.99-09
1.60 02	0.	0.	0.	0.	1.39-13	3.69-11	3.63-10	1.24-09
1.80 02	0.	0.	0.	0.	0.	0.	2.36-09	6.83-11
	0.	0.	0.	0.	2.42-14	1.68-11	6.54-10	2.88-09
	0.	0.	0.	0.	2.42-14	1.03-11	3.24-10	9.44-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.46-09
4.00 01	0.	0.	0.	0.	0.	0.	1.04-09	1.26-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	3.30-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.83-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	3.60-10
1.00 02	0.	0.	0.	0.	0.	0.	1.56-10	2.53-10
1.20 02	0.	0.	0.	0.	0.	0.	1.76-11	5.43-10
1.40 02	0.	0.	0.	0.	0.	0.	1.23-10	2.91-10
1.60 02	0.	0.	0.	0.	0.	2.67-13	1.87-10	4.13-10
1.80 02	0.	0.	0.	0.	0.	3.68-11	5.19-11	5.30-11
	0.	0.	0.	0.	0.	2.27-12	2.82-10	9.56-10
	0.	0.	0.	0.	0.	2.21-12	1.85-10	2.31-10

0030253065 55 0334554683761

AIR SCATTERING 3.23 02 ENERGY 2.00 ANGLE 3.00 01 DIST. 1.22 03
3.00 01 1.75 03 0. 0. 5.40 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.	7.27-08
0.	0.	0.	0.	0.	0.	0.	1.32-08
0.	0.	0.	0.	0.	0.	0.	5.04-09
0.	0.	0.	0.	0.	0.	0.	3.50-09
0.	0.	0.	0.	0.	0.	0.	2.81-09
0.	0.	0.	0.	0.	0.	0.	2.51-09
0.	0.	0.	0.	0.	0.	0.	2.56-09
0.	0.	0.	0.	0.	0.	0.	2.41-09
0.	0.	0.	0.	0.	0.	0.	6.17-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.19-08

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		
1.17-08	2.14-10	1.18-10	1.47-11	8.57-13	3.68-10	1.07-24	4.69-08	6.29-09
2.38-10	2.47-10	1.27-10	4.61-11	4.91-12	3.90-16	3.08-22	8.92-09	1.62-09
4.21-10	1.48-10	1.89-10	1.63-10	1.03-11	5.40-17	1.57-24	3.85-09	8.00-10
4.50-10	1.58-09	5.78-10	1.73-11	5.44-12	2.37-15	6.96-24	2.56-09	5.74-10
9.76-10	7.94-11	3.05-10	3.59-10	1.60-12	7.43-16	2.05-27	2.63-09	5.34-10
2.83-10	1.91-10	1.90-10	1.07-11	6.08-12	2.07-18	9.39-28	1.76-09	6.34-10
3.15-10	1.83-10	9.84-10	2.47-10	3.20-11	1.61-15	7.10-21	1.97-09	2.73-10
9.53-10	7.98-10	4.25-10	1.66-10	2.30-11	1.58-15	1.04-25	2.34-09	9.42-10
1.21-09	4.68-10	2.14-10	3.27-09	3.02-11	3.54-15	1.75-20	7.86-10	7.84-11
3.92-10	2.86-10	1.99-10	5.20-10	4.76-12	3.35-16	1.01-28	5.15-10	4.22-10
1.81-09	1.02-09	7.78-10	8.04-10	5.44-11	2.88-18	5.41-21		
6.56-10	3.64-10	1.97-10	6.29-10	1.36-11	1.14-15	3.80-21	8.35-09	5.67-10

PHI 45 TO 90 DEGREES

4.74-10	1.73-10	5.61-10	2.15-10	1.15-12	9.79-15	1.38-27	6.77-10	6.41-10
2.31-10	2.05-10	3.75-10	5.07-11	1.37-12	2.78-13	3.95-24	4.58-11	1.35-11
1.11-09	3.81-10	3.82-10	1.68-10	7.78-13	1.03-16	2.22-22	9.96-11	4.40-11
1.20-09	6.21-10	5.79-10	1.88-10	3.53-12	7.68-18	7.06-26	1.49-10	4.48-11
3.17-10	9.02-11	1.18-10	1.26-10	1.06-12	2.16-17	3.80-24	8.29-11	3.09-11
4.58-10	1.23-10	3.90-10	9.48-11	3.59-12	4.62-16	2.92-24	1.06-10	4.70-11
1.08-09	3.62-10	4.26-10	9.87-10	3.20-11	8.10-16	1.06-27	1.03-10	2.35-11
6.28-10	3.75-10	2.02-10	2.29-10	1.62-11	7.76-15	1.42-23	1.01-10	1.88-11
3.37-10	4.92-10	1.45-10	2.43-10	8.38-11	1.38-15	1.36-23	3.78-10	8.43-10
9.69-10	1.32-10	1.39-10	8.37-10	1.42-11	8.05-18	1.80-28	3.19-10	1.78-10
1.52-09	7.02-10	7.05-10	6.82-10	5.34-11	4.92-14	4.14-22		
3.59-10	1.75-10	1.58-10	3.23-10	2.40-11	4.83-14	3.48-22	3.02-10	6.36-11

PHI 90 TO 135 DEGREES

5.31-10	1.54-09	2.67-10	4.79-12	1.09-12	8.07-16	3.89-26	2.28-10	1.61-10
3.15-10	8.11-11	8.91-11	1.94-11	4.16-10	4.10-17	3.70-27	2.08-11	9.28-12
1.22-09	8.66-11	2.94-10	8.08-11	7.07-12	1.35-13	3.05-23	2.17-10	1.56-10
2.31-10	3.92-10	2.62-10	4.17-11	9.50-12	6.32-15	3.77-25	1.24-10	5.20-11
3.72-10	1.93-10	2.52-10	2.26-10	4.97-10	1.33-15	1.58-22	5.19-11	1.50-11
7.48-10	3.74-10	2.31-10	1.07-09	6.29-12	5.88-14	2.36-22	1.22-10	5.03-11
1.52-10	5.64-10	6.65-10	6.99-11	8.06-11	3.04-13	6.30-26	4.98-11	1.21-11
2.80-10	2.50-10	4.31-10	9.49-11	9.09-12	1.29-16	2.45-28	2.56-10	9.42-11
1.92-10	5.62-09	3.63-10	1.95-10	1.08-11	7.34-17	1.33-20	2.42-10	1.39-10
4.71-10	5.19-10	2.41-09	9.73-11	1.53-11	1.15-15	4.33-33	2.47-10	1.63-10
0.71-10	1.74-09	8.19-10	4.54-10	1.44-10	6.34-14	8.91-21		
3.29-10	9.41-10	2.31-10	2.88-10	8.62-11	4.09-14	6.91-21	2.87-10	6.88-11

PHI 135 TO 180 DEGREES

2.06-10	1.04-10	3.49-10	4.19-11	5.94-11	7.04-16	2.77-28	9.10-11	6.03-11
5.09-10	4.74-10	1.93-09	1.02-10	1.28-11	3.66-15	5.02-25	2.05-10	9.62-11
4.44-10	4.09-10	9.47-11	1.59-10	6.58-12	2.32-14	8.43-23	4.59-11	1.78-11
2.26-10	1.95-10	2.16-10	3.30-11	3.31-12	1.26-15	1.79-25	3.67-11	1.02-11
1.37-10	2.75-10	3.28-11	4.75-11	1.50-12	1.51-16	8.39-24	3.07-11	1.15-11
4.94-10	3.42-10	9.97-11	6.43-11	1.03-11	4.25-15	1.68-22	5.23-11	2.30-11
2.74-10	1.09-10	1.99-10	1.00-10	2.61-11	5.58-14	6.06-24	6.61-11	1.38-11
1.88-09	4.28-10	2.35-10	2.67-10	6.21-12	7.08-18	6.52-24	9.13-11	4.11-11
8.76-10	1.08-09	3.44-10	8.42-11	2.96-12	2.75-17	3.73-20	9.94-11	2.92-11
3.35-09	1.01-10	1.90-09	7.47-11	9.31-12	8.02-19	1.15-27	1.72-10	9.61-11
1.18-09	7.10-10	7.27-10	2.10-10	8.19-11	9.51-14	5.76-23		
3.86-10	1.96-10	3.42-10	5.98-11	7.73-12	7.32-15	3.33-23	1.45-10	2.04-11
							1.43-08	9.45-10

AIR SCATTERING 3.24 02 ENERGY 2.00 ANGLE 6.00 01 DIST. 1.22 03
1.25-03 1.07-02 3.20 01 1.97-06

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.	7.15-08	1.76-08	0.	0.	0.
4.00 01	0.	0.	0.	0.	2.76-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	1.28-09	1.77-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	1.32-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	1.06-08	0.	0.
1.00 02	0.	0.	0.	0.	0.	7.40-10	1.29-08	0.
1.20 02	0.	0.	0.	0.	0.	0.	6.54-09	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.	4.31-09	6.19-09	1.10-08	4.36-09	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.	4.55-08	1.12-08	0.	0.	5.32-10
4.00 01	0.	0.	0.	0.	1.76-08	0.	8.15-10	1.68-09
6.00 01	0.	0.	0.	0.	8.18-10	1.13-08	2.34-10	4.53-10
8.00 01	0.	0.	0.	0.	4.33-10	1.02-08	1.64-09	8.43-10
9.00 01	0.	0.	0.	0.	0.	7.23-09	3.32-09	2.36-10
1.00 02	0.	0.	0.	0.	0.	1.16-09	1.05-08	1.84-10
1.20 02	0.	0.	0.	0.	0.	1.10-10	6.30-09	6.05-10
1.40 02	0.	0.	0.	0.	0.	6.60-11	9.67-10	3.63-10
1.60 02	0.	0.	0.	0.	0.	3.92-12	2.36-09	1.68-10
1.80 02	0.	0.	0.	0.	0.	0.	7.47-11	2.03-10
	0.	0.	0.	2.75-09	4.08-09	7.83-09	5.87-09	1.13-09
	0.	0.	0.	4.60-10	5.93-10	7.92-10	5.64-10	1.98-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	6.08-10
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.01-09
6.00 01	0.	0.	0.	0.	0.	0.	3.50-10	9.41-10
8.00 01	0.	0.	0.	0.	0.	7.50-12	6.04-10	8.90-10
9.00 01	0.	0.	0.	0.	0.	0.	1.78-12	7.00-10
1.00 02	0.	0.	0.	0.	0.	0.	1.65-10	2.76-09
1.20 02	0.	0.	0.	0.	0.	6.70-13	1.42-10	6.62-10
1.40 02	0.	0.	0.	0.	0.	1.16-10	2.56-10	6.18-10
1.60 02	0.	0.	0.	0.	0.	0.	9.21-11	7.45-10
1.80 02	0.	0.	0.	0.	5.71-14	3.55-13	1.03-10	3.84-10
	0.	0.	0.	0.	3.44-15	3.36-11	4.56-10	1.89-09
	0.	0.	0.	0.	3.44-15	3.10-11	2.04-10	4.57-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	2.22-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	1.72-09
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.08-09
8.00 01	0.	0.	0.	0.	0.	0.	0.	5.97-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	7.05-10
1.00 02	0.	0.	0.	0.	0.	0.	4.36-12	5.67-10
1.20 02	0.	0.	0.	0.	0.	0.	1.43-11	5.34-10
1.40 02	0.	0.	0.	0.	0.	3.90-12	3.82-13	7.74-10
1.60 02	0.	0.	0.	0.	0.	2.76-12	5.57-12	5.74-10
1.80 02	0.	0.	0.	0.	0.	0.	5.03-14	7.69-11
	0.	0.	0.	0.	0.	1.52-12	6.50-12	1.44-09
	0.	0.	0.	0.	0.	1.09-12	4.74-12	4.06-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.47-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	8.28-11
6.00 01	0.	0.	0.	0.	0.	0.	0.	6.70-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	1.44-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.17-10
1.00 02	0.	0.	0.	0.	0.	0.	9.74-12	2.47-11
1.20 02	0.	0.	0.	0.	0.	7.61-12	7.19-13	1.55-10
1.40 02	0.	0.	0.	0.	0.	0.	1.32-11	4.60-10
1.60 02	0.	0.	0.	0.	0.	0.	1.03-12	7.80-10
1.80 02	0.	0.	0.	0.	0.	0.	8.40-13	7.12-12
	0.	0.	0.	0.	0.	2.49-12	5.66-12	6.79-10
	0.	0.	0.	0.	0.	2.48-12	3.90-12	1.73-10

160626166751 237411066451

AIR SCATTERING 3.24 02 ENERGY 2.00 ANGLE 6.00 01 DIST. 1.22 03
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.	1.69-08
0.	0.	0.	0.	0.	0.	0.	4.14-09
0.	0.	0.	0.	0.	0.	0.	2.14-09
0.	0.	0.	0.	0.	0.	0.	1.46-09
0.	0.	0.	0.	0.	0.	0.	1.17-09
0.	0.	0.	0.	0.	0.	0.	9.81-10
0.	0.	0.	0.	0.	0.	0.	4.57-10
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.
							3.31-09

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		
4.12-10	8.80-11	4.01-11	2.38-10	7.88-12	3.92-18	1.10-26	1.08-08	1.65-09
5.98-10	2.82-10	2.53-10	4.83-10	1.00-11	3.83-15	1.05-23	2.81-09	4.49-10
2.21-10	5.30-10	2.57-10	2.46-10	3.10-11	2.74-15	3.02-23	1.43-09	2.16-10
5.67-10	3.71-10	2.38-10	2.81-10	1.19-11	1.40-16	6.33-21	1.38-09	2.02-10
7.36-10	1.17-10	1.08-09	2.05-10	7.95-11	4.81-16	1.92-24	1.09-09	1.62-10
6.42-10	7.99-10	5.31-10	9.21-11	4.91-12	3.47-16	5.74-26	9.25-10	1.08-10
5.62-10	7.70-10	3.81-10	5.96-11	3.45-11	8.12-16	5.28-22	5.31-10	4.05-11
8.38-10	9.15-10	1.94-09	1.54-10	4.41-12	5.17-15	2.59-24	1.86-10	3.86-11
4.81-10	1.14-09	6.80-10	9.80-11	4.74-12	7.69-17	6.01-24	2.34-10	1.38-10
1.36-10	2.03-10	4.97-11	3.46-10	2.66-11	4.31-17	2.86-22	2.98-11	1.03-11
1.11-09	1.18-09	1.23-09	3.99-10	4.38-11	3.24-15	2.27-21		
2.15-10	2.23-10	4.21-10	1.73-10	1.77-11	1.73-15	1.65-21	2.59-09	1.60-10

PHI 45 TO 90 DEGREES

8.63-11	9.86-10	6.74-08	1.44-11	1.32-11	5.85-18	3.30-28	1.41-09	1.33-09
4.79-10	3.50-10	6.98-11	1.53-10	4.85-12	9.63-17	1.09-21	7.90-11	2.86-11
4.94-10	6.59-10	4.51-10	1.29-10	5.15-12	7.26-16	1.45-23	1.16-10	3.79-11
3.09-10	4.90-10	2.70-10	1.62-10	5.32-11	1.84-14	1.25-26	1.18-10	6.52-11
6.03-11	1.07-09	5.23-10	6.46-11	1.64-12	2.67-16	3.02-25	7.42-11	3.18-11
3.87-10	2.06-10	1.01-09	5.13-11	3.33-12	5.12-17	6.60-22	1.89-10	9.72-11
2.11-10	1.47-09	7.13-10	7.21-11	2.54-11	1.04-17	7.97-26	1.01-10	3.60-11
3.75-10	3.79-10	1.28-10	9.52-11	1.94-11	5.92-16	1.48-25	8.79-11	2.56-11
3.84-10	9.87-11	1.44-09	4.35-11	1.99-12	1.85-14	5.12-24	8.91-11	4.15-11
3.10-10	5.93-10	9.19-11	1.45-10	8.75-13	6.10-16	7.92-25	5.51-11	1.75-11
6.52-10	1.31-09	5.07-09	2.00-10	3.51-11	9.68-15	3.09-22		
1.08-10	4.35-10	4.03-09	4.37-11	1.61-11	6.79-15	2.25-22	2.89-10	8.76-11

PHI 90 TO 135 DEGREES

7.13-10	1.37-10	1.97-11	2.18-11	8.20-12	1.73-15	5.88-34	1.40-10	7.73-11
7.73-11	8.55-11	3.90-10	6.89-11	1.56-12	5.85-17	1.62-21	9.91-11	7.82-11
7.30-10	3.27-10	1.32-09	1.15-10	9.15-12	2.00-14	5.12-24	1.16-10	5.00-11
4.24-10	2.99-10	9.89-11	4.96-11	7.88-12	1.04-14	5.07-25	2.80-11	8.80-12
2.10-09	1.25-10	6.16-10	4.73-11	1.42-12	1.36-16	8.21-26	1.27-10	6.30-11
2.21-10	4.99-10	6.72-10	6.79-10	1.16-12	5.96-15	6.28-24	6.88-11	2.24-11
5.94-10	2.46-10	2.56-10	1.39-10	6.52-12	5.31-14	1.81-22	6.16-11	2.33-11
1.54-10	5.25-11	2.93-10	1.43-10	1.85-11	5.19-15	4.58-23	5.34-11	2.44-11
2.04-10	8.98-11	1.02-09	3.28-10	1.19-11	1.53-15	1.81-24	6.27-11	2.42-11
1.02-10	1.91-10	6.35-10	1.21-10	1.56-11	3.44-14	8.34-24	2.62-11	8.03-12
1.07-09	4.37-10	1.05-09	3.34-10	1.63-11	3.09-14	3.56-22		
3.73-10	1.13-10	3.55-10	1.37-10	4.81-12	1.28-14	2.83-22	1.46-10	2.66-11

PHI 135 TO 180 DEGREES

1.85-10	2.76-10	4.25-11	6.66-09	7.63-13	3.97-17	2.97-37	1.54-10	8.63-11
5.00-10	4.83-10	5.65-10	3.03-10	3.35-12	1.68-18	6.63-22	5.13-11	2.13-11
3.06-10	1.05-10	1.15-10	1.39-11	9.07-12	7.80-16	5.82-24	5.28-11	2.05-11
1.38-10	4.64-10	1.40-10	4.98-12	6.89-12	7.82-14	2.99-24	2.62-11	7.40-12
3.22-10	1.49-10	8.89-11	2.18-11	9.48-13	3.97-16	7.02-22	2.80-11	1.24-11
3.61-11	1.42-10	1.43-10	7.05-10	4.37-12	1.66-17	8.74-23	1.66-11	7.56-12
1.05-10	1.13-10	2.94-10	1.02-10	1.65-11	1.87-15	5.46-20	2.22-11	7.63-12
7.98-11	1.48-10	2.96-10	1.07-11	2.78-12	2.12-15	3.82-20	3.64-11	1.70-11
1.16-09	2.40-10	3.10-10	1.19-10	9.83-11	9.83-14	9.81-23	9.48-11	3.68-11
1.85-10	1.44-10	7.78-11	1.09-10	8.12-11	7.92-18	2.45-26	1.40-11	7.08-12
5.94-10	4.57-10	4.50-10	6.49-10	3.26-11	4.40-14	2.83-20		
1.76-10	1.21-10	1.29-10	4.67-10	1.58-11	3.00-14	1.99-20	8.28-11	1.36-11
							4.88-09	3.14-10

AIR SCATTERING 3.25 02 ENERGY 2.00 ANGLE 9.00 01 DIST. 1.22 03
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.	3.75-08	3.27-08	0.	0.
4.00 01	0.	0.	0.	0.	0.	2.33-08	0.	0.
6.00 01	0.	0.	0.	0.	0.	1.26-08	0.	0.
8.00 01	0.	0.	0.	0.	0.	3.38-10	9.82-09	0.
9.00 01	0.	0.	0.	0.	0.	0.	1.66-09	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.	2.26-09	9.49-09	3.49-09	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.	2.39-08	2.32-08	0.	3.68-11
4.00 01	0.	0.	0.	0.	1.67-09	1.48-08	1.77-09	9.08-10
6.00 01	0.	0.	0.	0.	0.	8.68-09	2.23-09	1.16-09
8.00 01	0.	0.	0.	0.	0.	6.00-10	8.67-09	5.41-10
9.00 01	0.	0.	0.	0.	0.	1.16-11	2.86-09	1.81-09
1.00 02	0.	0.	0.	0.	0.	9.17-12	1.17-09	1.23-09
1.20 02	0.	0.	0.	0.	0.	8.83-13	5.72-10	6.71-10
1.40 02	0.	0.	0.	0.	0.	0.	4.76-10	1.80-10
1.60 02	0.	0.	0.	0.	0.	0.	7.31-11	3.13-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.56-10
	0.	0.	0.	0.	1.73-09	6.48-09	4.76-09	1.50-09
	0.	0.	0.	0.	4.07-10	5.56-10	3.65-10	3.37-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.16-09	0.	5.90-10
4.00 01	0.	0.	0.	0.	0.	0.	8.26-10	5.72-10
6.00 01	0.	0.	0.	0.	0.	0.	1.30-09	3.63-10
8.00 01	0.	0.	0.	0.	0.	0.	2.06-10	7.29-10
9.00 01	0.	0.	0.	0.	0.	0.	4.60-10	5.57-10
1.00 02	0.	0.	0.	0.	0.	0.	3.97-10	2.72-10
1.20 02	0.	0.	0.	0.	0.	0.	1.16-10	2.21-10
1.40 02	0.	0.	0.	0.	0.	0.	6.75-12	3.21-10
1.60 02	0.	0.	0.	0.	0.	0.	5.62-13	2.69-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	2.46-10
	0.	0.	0.	0.	0.	7.01-11	7.44-10	8.32-10
	0.	0.	0.	0.	0.	7.01-11	2.22-10	1.98-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	3.36-10
4.00 01	0.	0.	0.	0.	0.	0.	3.16-10	3.17-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	2.88-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	3.74-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.72-10
1.00 02	0.	0.	0.	0.	0.	0.	2.11-15	5.72-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	7.11-11
1.40 02	0.	0.	0.	0.	0.	0.	2.71-13	4.43-11
1.60 02	0.	0.	0.	0.	0.	0.	5.14-11	5.38-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	3.32-11
	0.	0.	0.	0.	0.	0.	6.38-11	5.51-10
	0.	0.	0.	0.	0.	0.	5.54-11	1.18-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	3.86-09	2.56-09
4.00 01	0.	0.	0.	0.	0.	0.	0.	8.98-10
6.00 01	0.	0.	0.	0.	0.	0.	0.	1.17-10
8.00 01	0.	0.	0.	0.	0.	0.	0.	7.96-11
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.84-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.13-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.38-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.99-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.63-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	4.35-12
	0.	0.	0.	0.	0.	0.	2.33-10	5.05-10
	0.	0.	0.	0.	0.	0.	2.33-10	1.91-10

23741106645 2423114111145

AIR SCATTERING 3.25 02 ENERGY 2.00 ANGLE 9.00 01 DIST. 1.22 03

3.10 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.	9.22-09
0.	0.	0.	0.	0.	0.	0.	2.56-09
0.	0.	0.	0.	0.	0.	0.	1.39-09
0.	0.	0.	0.	0.	0.	0.	7.24-10
0.	0.	0.	0.	0.	0.	0.	1.16-10
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.	
							1.63-09

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		
2.01-10	3.30-10	3.58-10	9.44-12	1.51-10	1.97-18	8.13-26	6.16-09	9.48-10
5.17-10	9.46-09	2.54-10	4.75-11	1.46-11	3.95-14	1.13-21	2.30-09	4.04-10
6.29-10	1.70-09	4.00-10	4.40-10	3.46-12	1.31-14	3.46-21	1.24-09	1.32-10
6.23-10	4.22-10	2.30-10	1.39-10	2.91-12	8.74-14	1.04-18	7.39-10	5.25-11
1.83-09	3.88-10	2.70-10	9.02-11	1.90-11	4.50-15	1.80-20	3.73-10	8.91-11
6.04-10	2.93-10	8.20-10	9.01-11	2.97-12	5.86-16	1.40-24	1.87-10	4.64-11
5.07-10	7.93-10	5.01-10	1.14-10	2.85-12	2.34-18	4.69-24	1.22-10	2.47-11
3.21-10	2.94-10	3.74-10	1.19-10	3.62-12	8.19-17	9.98-25	6.85-11	2.14-11
1.54-10	1.40-10	6.61-10	1.03-10	7.87-12	1.41-16	1.30-25	4.40-11	1.56-11
2.59-11	4.51-10	6.38-10	1.08-10	1.43-12	8.96-16	2.74-31	3.34-11	1.87-11
1.17-09	2.76-09	8.02-10	2.96-10	2.07-11	3.98-14	3.43-19		
2.54-10	1.63-09	1.53-10	1.36-10	1.09-11	3.00-14	3.37-19	1.51-09	1.05-10

PHI 45 TO 90 DEGREES

3.69-10	2.25-10	4.64-11	1.17-11	3.44-12	5.05-15	2.65-27	1.77-10	1.29-10
5.33-10	2.70-10	1.05-09	9.18-11	3.82-12	4.29-16	2.38-22	1.34-10	4.84-11
2.34-10	3.84-10	1.16-10	6.86-11	2.43-12	2.78-15	5.48-27	1.30-10	4.46-11
2.26-10	1.09-09	2.00-10	3.69-11	9.59-12	1.74-16	1.43-25	8.96-11	3.43-11
8.61-11	1.99-10	3.82-10	5.65-11	4.87-13	2.49-16	4.73-26	7.61-11	3.46-11
1.54-10	2.63-10	1.04-10	6.01-11	2.21-12	9.57-16	8.53-25	5.59-11	2.84-11
5.81-10	9.83-10	1.49-10	1.12-10	1.43-10	2.76-15	1.10-27	6.92-11	2.37-11
1.23-09	2.27-10	3.53-10	5.38-10	9.87-11	9.29-17	1.90-25	7.97-11	3.65-11
7.74-11	4.30-11	1.93-10	2.96-10	6.63-12	1.09-14	1.07-24	2.42-11	9.33-12
1.75-10	5.36-11	1.57-10	3.38-11	3.31-11	2.53-15	5.85-26	2.37-11	9.04-12
8.34-10	9.91-10	5.50-10	3.09-10	8.13-11	4.35-15	4.18-23		
5.67-10	3.47-10	1.75-10	1.28-10	5.09-11	2.29-15	4.13-23	1.70-10	2.67-11

PHI 90 TO 135 DEGREES

5.54-10	2.07-10	2.59-10	2.15-10	2.22-12	2.78-16	7.73-24	4.90-11	1.71-11
5.13-10	3.64-11	1.11-10	3.18-11	6.80-12	2.82-18	9.53-25	5.99-11	2.61-11
1.18-09	1.49-10	1.15-10	1.84-10	3.06-12	4.44-14	7.29-21	6.45-11	3.16-11
2.58-10	3.60-10	8.34-10	4.49-11	4.06-12	3.52-15	2.84-27	5.38-11	1.74-11
2.23-09	1.86-10	2.16-10	6.16-11	2.16-13	8.66-16	3.75-25	1.03-10	5.80-11
5.71-10	1.50-10	9.44-11	2.53-10	8.90-13	7.25-17	1.88-23	5.72-11	2.33-11
1.91-10	2.13-09	1.57-09	2.31-10	4.09-12	2.54-15	2.89-22	9.53-11	4.49-11
6.57-11	4.36-11	8.01-11	3.48-10	7.81-11	4.03-16	3.94-24	1.15-11	3.65-12
8.15-11	7.36-11	5.79-11	9.04-10	4.90-11	6.33-18	9.78-26	4.59-11	1.73-11
1.31-10	2.98-11	3.45-11	7.46-12	1.11-11	2.87-19	1.97-22	7.98-12	3.53-12
1.11-09	9.56-10	9.37-10	4.62-10	3.49-11	1.41-14	2.05-21		
3.72-10	5.08-10	5.04-10	2.09-10	1.61-11	1.22-14	1.94-21	1.19-10	2.73-11

PHI 135 TO 180 DEGREES

1.59-11	1.53-10	1.30-10	4.58-11	5.96-13	1.72-15	2.09-20	4.06-10	2.99-10
1.36-10	1.03-09	2.93-10	3.27-11	1.84-11	6.40-16	1.58-26	8.08-11	3.55-11
6.99-11	3.40-10	1.58-10	4.95-11	1.36-11	1.31-15	2.02-22	2.03-11	5.56-12
2.07-10	1.32-10	5.88-11	1.13-10	4.19-12	1.73-17	6.93-23	1.70-11	4.62-12
4.13-11	2.18-11	1.91-10	1.55-09	8.93-11	1.34-12	2.18-23	2.46-11	1.18-11
4.49-11	6.61-10	5.87-11	3.57-09	7.77-11	1.82-15	1.60-23	6.07-11	3.86-11
1.08-10	3.95-11	6.65-11	1.68-10	3.68-11	5.28-16	3.55-26	1.51-11	5.33-12
5.18-11	1.49-10	1.81-11	5.59-11	3.26-12	2.15-13	1.02-25	1.63-11	7.73-12
1.15-10	1.58-10	1.30-10	3.03-11	4.04-09	9.16-14	1.08-19	5.46-11	4.07-11
1.74-10	8.66-11	4.65-10	4.03-10	2.66-11	1.73-16	3.07-21	2.17-11	1.08-11
2.05-10	5.23-10	2.40-10	1.05-09	7.54-10	3.07-13	2.02-20		
4.17-11	1.95-10	8.83-11	7.32-10	7.01-10	2.44-13	1.87-20	8.43-11	2.24-11
							2.96-09	2.03-10

AIR SCATTERING 3.26 02 ENERGY 2.00 ANGLE 1.35 02 DIST. 1.22 03
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.	6.92-08	2.54-08	0.
4.00 01	0.	0.	0.	0.	0.	0.	2.89-08	0.
6.00 01	0.	0.	0.	0.	0.	0.	3.67-10	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.	4.17-09	6.65-09	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.	4.64-08	2.07-08	2.69-10
4.00 01	0.	0.	0.	0.	0.	1.75-09	2.52-08	5.10-10
6.00 01	0.	0.	0.	0.	0.	1.20-12	3.83-09	6.82-10
8.00 01	0.	0.	0.	0.	0.	4.49-13	5.28-10	2.95-10
9.00 01	0.	0.	0.	0.	0.	0.	3.67-10	7.93-10
1.00 02	0.	0.	0.	0.	0.	0.	2.43-11	2.51-09
1.20 02	0.	0.	0.	0.	0.	0.	2.68-12	2.91-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.12-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.24-11
1.80 02	0.	0.	0.	0.	0.	0.	1.32-11	4.53-12
	0.	0.	0.	0.	0.	3.10-09	6.88-09	1.14-09
	0.	0.	0.	0.	0.	4.42-10	7.56-10	3.70-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.71-09	4.41-10
4.00 01	0.	0.	0.	0.	0.	0.	2.83-09	5.44-10
6.00 01	0.	0.	0.	0.	0.	0.	6.01-10	3.58-10
8.00 01	0.	0.	0.	0.	0.	0.	1.73-10	5.40-10
9.00 01	0.	0.	0.	0.	0.	0.	5.76-12	3.03-10
1.00 02	0.	0.	0.	0.	0.	0.	2.81-13	1.09-09
1.20 02	0.	0.	0.	0.	0.	0.	1.18-10	6.98-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.61-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	9.84-11
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.51-11
	0.	0.	0.	0.	0.	0.	8.50-10	9.23-10
	0.	0.	0.	0.	0.	0.	3.29-10	2.20-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.05-09	1.97-09
4.00 01	0.	0.	0.	0.	0.	0.	4.03-10	1.59-09
6.00 01	0.	0.	0.	0.	0.	1.18-13	1.34-12	4.85-10
8.00 01	0.	0.	0.	0.	0.	8.78-13	1.63-10	4.41-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	6.26-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.17-09
1.20 02	0.	0.	0.	0.	0.	0.	5.02-12	1.86-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	6.27-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.49-13
1.80 02	0.	0.	0.	0.	0.	0.	0.	3.17-10
	0.	0.	0.	0.	0.	3.18-13	1.88-10	1.08-09
	0.	0.	0.	0.	0.	2.88-13	9.48-11	2.40-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.83-10	1.74-09
4.00 01	0.	0.	0.	0.	0.	0.	3.74-12	3.93-10
6.00 01	0.	0.	0.	0.	0.	0.	9.11-13	9.44-10
8.00 01	0.	0.	0.	0.	0.	0.	2.68-10	1.26-10
9.00 01	0.	0.	0.	0.	0.	0.	5.92-15	3.01-11
1.00 02	0.	0.	0.	0.	0.	0.	0.	1.08-09
1.20 02	0.	0.	0.	0.	0.	0.	0.	8.20-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	3.22-11
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.12-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	1.55-10
	0.	0.	0.	0.	0.	0.	1.05-10	1.02-09
	0.	0.	0.	0.	0.	0.	8.79-11	3.12-10

033455603761 070070711371

AIR SCATTERING 3.26 02 ENERGY 2.00 ANGLE 1.35 02 DIST. 1.22 03

3.00 01 1.76 03 0. 0. 5.29 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.	9.39-09
0.	0.	0.	0.	0.	0.	0.	2.02-09
0.	0.	0.	0.	0.	0.	0.	2.57-11
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.	9.25-10

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		
1.20-10	2.06-10	1.39-09	1.04-09	1.79-12	8.73-17	5.96-22	6.62-09	7.29-10
8.20-10	4.70-10	8.03-10	1.02-10	1.77-11	6.03-16	9.95-25	2.03-09	2.49-10
6.24-10	5.33-10	3.18-10	6.81-10	2.13-11	1.70-16	1.16-21	3.51-10	1.33-10
8.10-10	1.43-10	1.83-10	2.50-10	9.01-12	3.52-16	3.79-27	9.06-11	2.53-11
2.98-10	6.03-10	2.62-10	5.24-10	9.98-12	7.52-16	1.34-22	1.00-10	3.41-11
1.33-10	1.03-09	1.86-10	6.51-11	1.05-11	2.88-15	2.04-24	1.61-10	1.02-10
2.38-10	2.57-10	1.55-10	1.01-09	6.04-11	1.70-14	7.81-25	4.33-11	1.30-11
4.34-10	1.80-10	1.98-11	5.99-11	2.71-12	2.75-16	1.52-23	3.66-11	1.18-11
6.76-10	1.99-10	1.15-10	3.75-11	6.11-11	2.08-17	1.33-26	3.55-11	1.47-11
2.38-10	9.38-09	5.05-11	1.03-10	5.64-12	8.12-19	7.09-27	2.37-10	2.22-10
9.12-10	1.30-09	5.24-10	8.08-10	4.67-11	6.51-15	3.72-22		
2.34-10	5.82-10	1.24-10	3.85-10	2.14-11	4.40-15	3.07-22	9.63-10	8.19-11

PHI 45 TO 90 DEGREES

2.55-10	7.54-10	1.29-10	5.67-11	4.91-12	3.82-21	4.06-29	1.72-10	7.03-11
2.64-10	1.37-10	2.92-10	5.44-11	3.89-12	3.28-14	3.43-24	2.44-10	1.27-10
1.25-09	2.97-10	2.60-10	8.78-11	2.60-11	5.53-15	1.54-21	1.19-10	3.20-11
6.19-10	4.15-10	2.91-10	1.53-10	1.74-11	1.17-15	2.31-24	7.89-11	1.79-11
1.03-10	2.25-10	3.36-10	1.37-10	4.62-12	1.20-16	5.32-24	3.28-11	9.84-12
5.82-10	2.77-10	1.15-10	3.46-11	8.02-13	1.45-17	8.38-25	8.47-11	4.64-11
2.30-10	1.80-09	3.22-10	9.64-11	4.18-12	1.20-16	6.00-19	1.02-10	4.28-11
3.20-10	8.64-11	7.60-11	6.13-10	1.48-12	9.79-17	5.47-24	2.93-11	1.08-11
9.75-11	5.09-11	3.01-10	2.49-11	3.69-11	9.73-17	7.65-27	1.63-11	5.16-12
6.39-11	2.42-10	7.71-11	1.17-10	3.30-13	2.68-16	8.47-30	1.16-11	5.59-12
8.97-10	1.01-09	4.84-10	3.22-10	2.27-11	7.67-15	1.96-19		
2.20-10	5.30-10	1.01-10	1.61-10	9.77-12	7.03-15	1.96-19	1.75-10	3.24-11

PHI 90 TO 135 DEGREES

1.78-09	1.00-10	8.84-11	1.04-11	1.23-11	6.63-20	1.52-25	2.40-10	1.18-10
2.11-10	2.15-10	1.09-10	3.01-11	2.86-11	5.52-16	1.27-23	1.23-10	4.07-11
2.10-10	7.52-11	2.58-10	1.14-10	1.21-11	4.86-15	5.42-21	4.01-11	1.23-11
2.83-10	2.00-10	6.52-10	3.39-11	2.78-11	2.38-15	1.17-22	6.88-11	1.78-11
8.95-10	6.55-10	1.59-10	1.47-10	1.35-12	2.84-16	1.46-22	8.39-11	5.46-11
1.98-10	1.51-10	1.62-10	4.40-12	5.92-12	1.91-15	3.85-25	7.25-11	3.73-11
1.93-10	1.43-10	1.58-10	2.85-11	6.99-12	2.63-16	2.81-24	2.35-11	6.85-12
2.86-10	6.50-11	1.13-10	4.14-11	1.78-10	1.87-18	2.30-23	1.95-11	6.04-12
3.15-10	1.93-10	5.51-11	1.46-11	8.12-12	1.35-14	5.73-23	1.73-11	1.02-11
6.82-11	5.30-10	3.51-11	1.14-11	1.89-11	2.19-19	2.62-29	3.20-11	1.65-11
6.66-10	3.98-10	4.55-10	9.70-11	7.14-11	4.97-15	1.53-21		
1.86-10	1.19-10	1.41-10	3.34-11	4.79-11	2.63-15	1.43-21	1.11-10	1.76-11

PHI 135 TO 180 DEGREES

2.71-10	1.70-10	1.07-10	4.42-10	1.28-11	4.94-14	7.15-25	1.27-10	6.02-11
7.51-11	2.29-09	1.79-10	1.42-10	1.38-11	1.91-13	9.70-22	8.27-11	5.25-11
2.08-10	7.14-11	1.26-10	4.29-10	1.19-11	9.21-15	5.37-20	6.34-11	2.10-11
5.38-10	2.08-10	7.38-11	4.30-11	4.14-11	2.53-15	2.01-21	5.17-11	2.13-11
9.93-11	1.39-10	1.83-10	2.77-11	1.19-12	4.84-19	3.47-23	1.24-11	3.81-12
6.59-11	8.82-11	1.34-10	1.03-10	3.86-12	2.11-15	1.81-21	6.23-11	3.96-11
1.49-09	8.54-11	1.07-10	1.10-10	1.20-10	3.44-16	2.04-29	1.01-10	5.32-11
1.97-10	3.67-10	1.11-10	1.08-10	5.34-12	8.47-17	1.85-21	2.08-11	8.35-12
6.56-10	2.69-10	2.51-11	2.07-11	9.83-12	7.47-15	2.80-26	5.15-11	3.11-11
1.81-10	3.51-10	6.11-10	2.59-12	1.59-12	3.14-15	3.50-23	3.50-11	2.10-11
9.52-10	7.28-10	2.56-10	2.71-10	6.29-11	4.14-14	1.59-20		
3.81-10	3.85-10	5.94-11	1.09-10	3.25-11	2.74-14	1.45-20	1.18-10	2.47-11
							2.15-09	1.61-10

AIR SCATTERING 3.27 02 ENERGY 2.00 ANGLE 1.80 02 DIST. 1.22 03
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.	1.84-07	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.	1.11-08	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.	2.40-11	1.28-07	1.32-10
4.00 01	0.	0.	0.	0.	0.	0.	1.18-09	5.12-10
6.00 01	0.	0.	0.	0.	0.	0.	5.87-10	6.29-10
8.00 01	0.	0.	0.	0.	0.	0.	2.43-10	1.33-09
9.00 01	0.	0.	0.	0.	0.	0.	0.	4.42-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	9.97-12
1.20 02	0.	0.	0.	0.	0.	0.	0.	2.82-10
1.40 02	0.	0.	0.	0.	0.	0.	0.	1.18-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	1.04-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	1.44-12	8.14-09	8.99-10
	0.	0.	0.	0.	0.	1.44-12	5.94-10	3.56-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.10-11	6.93-09	1.04-09
4.00 01	0.	0.	0.	0.	0.	2.74-11	1.12-09	2.35-10
6.00 01	0.	0.	0.	0.	0.	5.77-14	2.09-10	3.89-10
8.00 01	0.	0.	0.	0.	0.	0.	2.56-12	3.13-10
9.00 01	0.	0.	0.	0.	0.	0.	1.51-14	2.76-10
1.00 02	0.	0.	0.	0.	0.	0.	0.	2.00-11
1.20 02	0.	0.	0.	0.	0.	0.	5.47-14	7.51-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.36-12
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.73-10
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	0.	0.	0.	0.	0.	5.43-12	6.68-10	4.68-10
	0.	0.	0.	0.	0.	4.32-12	1.53-10	1.03-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	2.05-11	5.33-09	1.13-09
4.00 01	0.	0.	0.	0.	0.	3.27-16	1.38-09	1.95-10
6.00 01	0.	0.	0.	0.	0.	7.39-12	1.05-10	8.94-10
8.00 01	0.	0.	0.	0.	0.	2.65-13	6.60-12	3.10-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	2.29-10
1.80 02	0.	0.	0.	0.	0.	0.	2.32-12	5.38-10
1.20 02	0.	0.	0.	0.	0.	0.	0.	1.68-10
1.40 02	0.	0.	0.	0.	0.	0.	1.56-12	2.54-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	6.83-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	6.99-13
	0.	0.	0.	0.	0.	3.29-12	5.91-10	6.97-10
	0.	0.	0.	0.	0.	2.23-12	1.10-10	1.37-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.25-11	3.20-09	4.51-10
4.00 01	0.	0.	0.	0.	0.	0.	2.53-09	4.12-10
6.00 01	0.	0.	0.	0.	0.	0.	1.93-09	6.21-10
8.00 01	0.	0.	0.	0.	0.	0.	4.26-11	7.14-10
9.00 01	0.	0.	0.	0.	0.	0.	0.	1.07-10
1.00 02	0.	0.	0.	0.	0.	0.	8.19-13	2.02-10
1.20 02	0.	0.	0.	0.	0.	0.	3.04-13	2.02-11
1.40 02	0.	0.	0.	0.	0.	0.	0.	2.20-10
1.60 02	0.	0.	0.	0.	0.	0.	0.	4.40-12
1.80 02	0.	0.	0.	0.	0.	0.	0.	3.76-11
	0.	0.	0.	0.	0.	7.55-13	1.16-09	6.19-10
	0.	0.	0.	0.	0.	7.50-13	4.61-10	1.57-10

07007071137 06235333540

AIR SCATTERING 3.27 02 ENERGY 2.00 ANGLE 1.80 02 DIST. 1.22 03

3.30 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.	1.29-08	
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.	0.	
							7.78-10	

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			
3.60-10	7.29-10	3.50-10	3.91-10	1.87-10	1.95-17	2.54-26	8.99-09	6.53-10	
5.76-10	7.45-10	3.09-10	2.25-10	3.58-11	1.15-14	6.03-22	1.56-10	3.07-11	
4.15-10	4.15-10	1.77-10	2.46-10	8.99-12	4.97-16	3.83-24	1.02-10	2.50-11	
8.30-11	4.48-10	4.31-10	1.28-10	1.30-12	5.69-15	1.67-21	1.07-10	5.53-11	
8.13-10	7.19-11	1.02-09	1.01-09	1.55-11	5.47-15	8.52-22	6.94-11	3.22-11	
1.82-10	9.11-10	5.19-10	1.80-10	4.45-12	1.35-16	2.42-27	4.09-11	2.12-11	
6.55-11	6.53-11	9.85-11	8.10-11	9.62-12	1.46-16	2.83-22	2.09-11	5.61-12	
2.43-11	7.47-10	8.30-10	3.20-11	4.21-12	1.47-15	1.43-25	4.17-11	2.26-11	
3.71-10	1.16-09	3.91-10	5.25-11	5.11-12	1.00-17	2.23-30	4.97-11	3.01-11	
0.	5.19-11	1.36-10	1.55-11	4.67-11	3.69-15	3.41-27	4.60-12	2.21-12	
4.55-10	1.03-09	8.44-10	4.18-10	3.17-11	4.97-15	8.92-22			
8.15-11	4.27-10	3.26-10	2.18-10	1.67-11	2.36-15	5.77-22	6.77-10	~~5.02~~	

PHI 45 TO 90 DEGREES

3.54-10	2.93-10	1.04-09	2.85-10	4.97-12	5.29-15	1.09-25	5.82-10	1.54-10	
8.83-10	4.66-10	1.82-10	8.22-10	4.39-11	2.70-16	9.36-24	1.48-10	3.54-11	
1.38-09	2.32-10	3.23-10	1.43-10	1.68-11	1.76-15	4.19-21	9.73-11	4.04-11	
8.18-10	2.46-10	1.46-10	9.31-11	2.72-11	1.40-14	1.56-21	5.53-11	1.70-11	
2.31-10	1.65-10	4.03-10	9.74-11	2.26-11	7.21-15	1.37-22	3.53-11	1.28-11	
4.32-10	1.65-10	4.69-10	5.04-11	3.91-11	3.22-15	3.14-22	3.08-11	1.25-11	
1.85-10	9.73-11	1.96-10	1.09-10	1.24-12	4.46-16	1.14-22	1.78-11	4.79-12	
3.42-10	6.79-11	1.05-10	2.96-11	3.80-12	5.62-17	2.44-25	1.65-11	1.03-11	
1.10-11	1.87-10	1.72-10	5.21-11	3.51-12	3.02-15	6.80-27	3.25-11	2.30-11	
4.53-12	1.11-09	1.86-10	3.90-11	1.71-12	1.97-17	1.71-24	3.09-11	2.53-11	
1.08-09	4.47-10	5.12-10	3.09-10	3.41-11	7.91-15	1.74-21			
3.51-10	8.84-11	1.05-10	1.58-10	1.88-11	4.68-15	1.08-21	1.34-10	1.92-11	

PHI 90 TO 135 DEGREES

4.94-10	1.03-09	3.34-10	1.93-10	5.22-12	1.60-14	1.52-20	4.82-10	1.03-10	
6.68-10	4.01-10	3.15-10	1.17-10	4.55-11	1.80-16	8.56-24	1.48-10	3.16-11	
2.01-10	3.91-10	1.89-10	7.80-11	9.58-12	4.87-15	7.68-21	7.41-11	1.88-11	
3.75-10	3.70-10	1.04-09	6.37-11	1.27-12	7.58-17	3.01-23	5.98-11	1.67-11	
1.67-10	2.66-10	6.10-11	1.46-10	1.15-12	2.20-18	4.52-25	2.66-11	8.44-12	
1.97-10	2.36-10	1.33-10	2.99-11	2.31-12	2.47-15	8.07-29	4.28-11	1.47-11	
1.93-10	3.39-10	5.99-11	4.92-11	8.89-12	1.19-13	7.89-22	2.52-11	9.30-12	
6.67-11	1.77-10	2.79-11	7.13-11	9.88-13	1.51-16	1.81-22	2.17-11	1.20-11	
1.10-11	2.25-11	7.32-11	1.19-10	2.49-11	1.21-14	2.96-25	4.17-12	1.32-12	
5.05-11	3.59-11	5.18-12	3.84-11	4.70-12	6.27-19	1.17-33	3.25-12	1.80-12	
4.70-10	6.08-10	5.51-10	1.57-10	1.95-11	4.37-14	3.28-21			
8.21-11	1.37-10	2.14-10	4.88-11	9.06-12	3.80-14	2.25-21	1.21-10	1.28-11	

PHI 135 TO 180 DEGREES

1.30-09	7.03-10	6.49-10	1.04-10	4.42-11	2.51-15	1.11-22	3.26-10	7.46-11	
5.56-10	2.60-10	5.90-10	5.40-11	1.75-11	8.81-16	2.88-23	2.36-10	5.47-11	
3.46-10	3.99-10	4.28-10	2.35-11	1.13-11	2.59-13	2.32-26	1.97-10	1.17-10	
4.67-10	1.23-10	1.88-10	6.34-11	1.60-12	8.53-18	3.22-23	6.28-11	2.15-11	
1.79-09	4.46-11	8.57-11	1.54-09	2.35-11	1.32-12	1.11-29	8.83-11	6.32-11	
1.48-10	2.16-11	1.06-10	8.66-11	1.61-11	2.55-17	1.10-20	1.91-11	8.39-12	
1.10-10	4.93-10	1.11-10	3.28-10	6.82-12	9.37-15	1.14-19	2.24-11	7.65-12	
5.13-11	5.77-11	1.02-10	1.51-11	8.15-11	4.06-16	8.55-23	1.73-11	8.46-12	
7.57-11	4.46-10	8.68-11	1.74-10	3.63-12	6.07-14	4.10-23	1.72-11	7.68-12	
3.53-10	5.45-11	4.43-11	4.12-12	7.47-13	2.45-18	0.	1.68-11	1.18-11	
8.40-10	5.02-10	4.31-10	4.66-10	4.07-11	3.13-13	3.92-20			
3.19-10	1.17-10	9.32-11	2.91-10	2.44-11	2.99-13	3.84-20	1.68-10	3.57-11	
							1.73-09	1.15-10	

AIR SCATTERING 3.28 02 ENERGY 1.00 ANGLE 1.00 DIST. 1.22 03
1.25-03 1.07-02 3.20 01 1.97-06

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	2.69-05	0.	0.	0.	0.	0.	0.	0.
4.00 01	4.05-06	2.36-06	0.	0.	0.	0.	0.	0.
6.00 01	0.	1.57-06	0.	0.	0.	0.	0.	0.
8.00 01	0.	0.	1.51-06	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	3.65-06	0.	0.	0.	0.
1.00 02	0.	0.	0.	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	0.	1.71-06	0.	0.	0.
1.40 02	0.	0.	0.	0.	2.55-06	0.	0.	0.
1.60 02	0.	0.	0.	0.	2.47-06	1.43-06	0.	0.
1.80 02	0.	0.	0.	0.	0.	1.34-05	0.	0.
	2.32-06	8.28-07	4.92-07	6.34-07	1.67-06	1.06-06	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	1.71-05	0.	0.	0.	0.	0.	5.07-11	1.86-09
4.00 01	2.58-06	1.50-06	0.	0.	0.	0.	1.35-09	1.63-08
6.00 01	0.	1.00-06	0.	2.65-08	0.	0.	1.02-09	8.36-10
8.00 01	0.	0.	9.60-07	0.	0.	3.76-09	1.64-09	5.98-10
9.00 01	0.	0.	0.	2.33-06	0.	0.	8.10-10	1.08-09
1.00 02	0.	0.	0.	0.	0.	8.72-10	6.64-10	3.80-10
1.20 02	0.	0.	0.	0.	1.09-06	7.76-10	1.92-09	1.02-09
1.40 02	0.	0.	0.	0.	1.62-06	1.21-09	1.12-09	1.67-09
1.60 02	0.	0.	0.	0.	1.57-06	9.22-07	2.99-10	1.26-09
1.80 02	0.	0.	0.	0.	2.64-11	8.56-06	3.51-10	6.32-09
	1.48-06	5.27-07	3.13-07	4.11-07	1.06-06	6.78-07	2.30-09	5.00-09
	3.34-07	3.73-07	3.13-07	4.04-07	4.98-07	1.54-07	5.20-10	1.90-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	1.74-09
4.00 01	0.	0.	0.	0.	0.	0.	2.52-09	1.37-09
6.00 01	0.	0.	0.	0.	0.	7.40-12	8.53-10	1.21-09
8.00 01	0.	0.	0.	0.	0.	4.73-10	3.99-09	1.36-09
9.00 01	0.	0.	0.	0.	0.	0.	1.12-09	9.07-10
1.00 02	0.	0.	0.	0.	0.	7.71-10	5.01-09	3.04-10
1.20 02	0.	0.	0.	0.	0.	3.71-11	9.58-09	1.09-09
1.40 02	0.	0.	0.	0.	0.	1.94-09	8.57-10	6.05-10
1.60 02	0.	0.	0.	0.	1.57-10	9.10-09	1.23-09	7.85-10
1.80 02	0.	0.	0.	7.24-11	9.41-11	2.78-08	7.83-10	2.92-09
	0.	0.	0.	4.37-12	3.30-11	4.08-09	6.65-09	2.15-09
	0.	0.	0.	4.00-12	2.64-11	9.45-10	2.69-09	5.48-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	1.76-09	3.89-09	4.74-09
4.00 01	0.	0.	0.	0.	0.	0.	1.25-09	1.47-09
6.00 01	0.	0.	0.	0.	0.	2.33-10	2.81-09	5.01-10
8.00 01	0.	0.	0.	0.	8.26-09	4.24-11	1.45-09	2.39-09
9.00 01	0.	0.	0.	0.	0.	4.43-11	4.48-09	5.19-10
1.00 02	0.	0.	0.	0.	0.	1.35-09	5.60-10	7.08-10
1.20 02	0.	0.	0.	0.	4.95-09	3.83-10	2.12-09	7.92-10
1.40 02	0.	0.	0.	0.	1.11-10	1.13-09	7.26-09	8.98-10
1.60 02	0.	0.	0.	1.75-12	1.60-10	2.21-08	1.24-09	2.08-09
1.80 02	0.	0.	0.	2.77-10	3.18-10	1.31-08	2.40-09	6.93-10
	0.	0.	0.	1.70-11	4.39-09	5.47-09	5.53-09	2.57-09
	0.	0.	0.	1.60-11	3.14-09	2.94-09	1.51-09	6.00-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.73-09	7.12-10
4.00 01	0.	0.	0.	0.	0.	0.	1.40-10	5.48-09
6.00 01	0.	0.	0.	0.	0.	5.34-10	4.65-10	4.80-09
8.00 01	0.	0.	0.	0.	0.	8.64-10	1.82-09	2.57-10
9.00 01	0.	0.	0.	0.	0.	0.	7.51-10	8.81-10
1.00 02	0.	0.	0.	0.	0.	0.	3.12-10	4.93-10
1.20 02	0.	0.	0.	0.	1.85-11	6.31-10	1.74-09	1.02-09
1.40 02	0.	0.	0.	0.	8.12-11	1.84-09	9.26-10	1.61-09
1.60 02	0.	0.	0.	0.	3.72-10	6.47-09	2.43-09	1.07-09
1.80 02	0.	0.	0.	2.70-11	2.34-11	2.41-08	2.92-09	8.59-10
	0.	0.	0.	1.63-12	9.36-11	3.70-09	2.50-09	3.59-09
	0.	0.	0.	1.58-12	5.84-11	1.08-09	5.61-10	1.23-09

06235333540 1 011053642675

AIR SCATTERING 3.28 02 ENERGY 1.00 ANGLE 1.00 DIST. 1.22 03
4.60 01 1.74 03 0. 0. 5.61 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.	6.99-06
0.	0.	0.	0.	0.	0.	0.	1.50-06
0.	0.	0.	0.	0.	0.	0.	2.99-07
0.	0.	0.	0.	0.	0.	0.	2.26-07
0.	0.	0.	0.	0.	0.	0.	3.65-07
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.54-07
0.	0.	0.	0.	0.	0.	0.	2.29-07
0.	0.	0.	0.	0.	0.	0.	2.94-07
0.	0.	0.	0.	0.	0.	0.	6.70-07
0.	0.	0.	0.	0.	0.	0.	1.10-06

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		
4.25-10	4.98-10	2.89-11	2.70-12	1.01-12	1.41-14	2.43-31	4.45-06	9.06-07
5.82-10	1.59-10	6.45-11	1.72-11	1.72-13	1.54-19	2.82-29	9.56-07	4.82-07
1.06-09	1.27-09	1.99-10	1.82-11	1.63-13	2.07-17	8.41-23	1.93-07	1.90-07
3.77-10	8.76-10	1.17-10	6.97-11	3.16-13	1.13-17	8.66-26	1.44-07	1.44-07
6.09-10	2.34-10	8.44-11	5.01-11	2.68-13	5.96-15	1.19-24	2.33-07	2.32-07
1.18-09	1.60-10	4.56-10	8.26-11	9.00-13	8.94-17	4.32-26	1.21-10	3.93-11
6.96-10	9.62-10	5.60-10	7.58-11	7.63-12	5.43-16	2.90-24	9.82-08	9.80-08
1.78-09	6.45-10	2.53-10	1.18-10	7.92-12	5.54-15	3.82-22	1.46-07	1.05-07
1.97-09	5.91-10	7.20-11	4.96-09	6.52-13	2.41-13	1.28-25	1.88-07	9.03-08
1.65-09	9.28-11	2.68-10	2.07-10	2.67-11	1.44-16	1.32-24	4.28-07	8.73-08
1.98-09	1.34-09	4.77-10	9.82-10	6.76-12	4.54-14	1.25-22		
4.57-10	3.56-10	8.88-11	8.60-10	4.44-12	4.24-14	1.04-22	7.03-07	1.35-07

PHI 45 TO 90 DEGREES

3.39-10	7.18-11	4.39-10	1.21-11	1.55-14	3.03-20	5.41-34	7.40-11	3.46-11
3.66-10	5.01-10	4.03-11	1.95-10	1.92-13	6.44-17	2.45-24	1.66-10	5.57-11
2.46-10	7.53-10	2.00-10	2.14-11	1.00-13	6.72-15	6.29-21	9.58-11	2.96-11
1.23-09	3.54-10	4.67-09	2.16-11	5.24-13	1.84-14	5.95-25	3.22-10	1.27-10
3.97-10	2.60-10	3.14-10	4.42-11	7.06-12	1.65-14	1.98-23	9.16-11	3.21-11
3.91-10	4.99-10	8.30-11	4.46-11	1.50-12	1.53-16	1.90-22	2.68-10	1.34-10
1.20-09	2.38-10	3.85-10	9.76-11	2.93-12	1.35-15	7.19-28	4.61-10	3.03-10
8.18-10	3.41-10	1.86-10	4.29-10	6.05-12	3.80-15	1.37-24	1.84-10	4.68-11
7.51-10	8.53-10	1.49-10	1.59-10	1.08-12	3.06-17	7.21-26	5.80-10	1.74-10
7.52-10	2.95-10	1.37-10	4.83-11	8.07-13	1.03-15	5.48-28	1.56-09	5.68-10
1.46-09	8.73-10	1.89-09	2.39-10	4.52-12	1.22-14	1.71-21		
4.19-10	1.85-10	1.48-09	1.19-10	2.11-12	7.04-15	1.67-21	6.20-10	1.21-10

PHI 90 TO 135 DEGREES

7.52-11	2.70-08	9.09-11	9.59-13	6.74-12	8.35-19	5.43-34	8.13-10	4.59-10
5.72-10	1.05-09	4.23-10	3.60-12	4.86-14	1.76-16	5.44-24	1.35-10	4.73-11
6.88-10	3.72-10	5.14-10	1.88-11	1.47-13	3.39-16	7.64-29	1.70-10	7.11-11
6.41-10	3.53-10	3.22-09	1.53-10	3.10-12	2.03-16	1.89-25	9.46-10	7.46-10
1.38-09	4.68-10	6.47-10	7.68-11	1.92-12	2.79-15	3.23-23	2.49-10	1.21-10
7.04-10	1.88-09	4.83-10	1.71-11	1.05-12	5.75-16	4.81-24	1.66-10	7.35-11
5.81-10	3.58-10	5.50-10	5.52-11	7.65-12	1.44-16	1.35-27	6.93-10	4.51-10
9.20-10	4.13-10	1.08-09	6.87-11	2.80-11	7.05-15	5.78-27	4.30-10	1.76-10
1.35-09	2.06-10	1.95-10	1.73-11	1.11-12	2.17-17	3.22-22	1.28-09	8.22-10
5.86-10	4.34-10	9.14-10	3.22-11	1.52-12	9.25-17	2.32-30	8.65-10	2.10-10
1.56-09	2.72-09	2.02-09	1.13-10	1.22-11	2.70-15	6.34-23		
2.66-10	1.63-09	8.69-10	4.53-11	6.97-12	1.94-15	5.63-23	1.08-09	3.26-10

PHI 135 TO 180 DEGREES

2.55-09	4.23-10	4.30-10	3.63-11	3.01-14	3.08-21	4.91-33	2.09-10	1.02-10
4.61-10	3.41-11	2.89-10	8.66-11	4.59-13	3.39-16	3.87-26	2.08-10	1.03-10
4.90-10	4.56-10	8.63-11	6.80-11	2.47-13	8.52-17	2.98-26	2.29-10	1.37-10
8.38-10	2.98-10	1.07-09	8.87-11	7.32-13	3.89-16	1.81-29	1.64-10	5.81-11
5.32-10	4.95-10	1.36-09	5.04-11	2.17-12	7.61-16	1.52-25	9.75-11	2.75-11
4.37-10	3.88-10	9.60-10	7.50-11	9.96-12	3.37-18	1.19-25	5.82-11	1.57-11
8.65-10	7.04-10	1.19-10	1.65-10	3.59-12	6.02-17	4.41-24	1.72-10	4.64-11
5.43-10	2.80-10	3.50-09	7.54-11	1.38-12	1.71-15	1.07-26	2.51-10	6.91-11
9.66-10	1.77-09	2.55-10	4.87-10	9.08-13	3.56-16	7.15-23	5.49-10	1.57-10
8.09-10	5.49-10	1.92-10	8.04-12	3.08-13	1.54-18	2.09-26	1.39-09	5.85-10
1.45-09	1.05-09	1.88-09	2.45-10	4.21-12	8.77-16	1.39-23		
3.28-10	2.57-10	9.53-10	8.62-11	1.87-12	4.90-16	1.24-23	4.92-10	7.50-11
							1.11-06	2.12-07

AIR SCATTERING 3.29 02 ENERGY 1.00 ANGLE 1.50 01 DIST. 1.22 03
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	1.24-06	2.75-08	0.	0.	0.	0.	0.	0.
4.00 01	0.	3.09-07	0.	0.	0.	0.	0.	0.
6.00 01	0.	0.	1.47-07	0.	0.	0.	0.	0.
8.00 01	0.	0.	6.16-09	1.18-07	0.	0.	0.	0.
9.00 01	0.	0.	0.	5.59-08	4.38-08	0.	0.	0.
1.00 02	0.	0.	0.	0.	1.05-07	0.	0.	0.
1.20 02	0.	0.	0.	0.	1.08-07	0.	0.	0.
1.40 02	0.	0.	0.	0.	1.19-07	0.	0.	0.
1.60 02	0.	0.	0.	0.	1.88-08	2.33-07	0.	0.
1.80 02	0.	0.	0.	0.	0.	5.01-08	0.	0.
	7.51-08	5.53-08	4.11-08	4.84-08	9.57-08	4.35-08	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	7.92-07	1.75-08	0.	0.	0.	1.65-08	4.91-09	4.12-08
4.00 01	0.	1.97-07	0.	0.	0.	0.	1.52-08	1.35-08
6.00 01	0.	0.	9.36-08	0.	0.	0.	1.88-09	8.32-10
8.00 01	0.	0.	3.92-09	1.09-07	0.	7.32-09	1.12-09	2.28-10
9.00 01	0.	0.	0.	3.56-08	2.79-08	6.39-10	1.00-09	3.23-10
1.00 02	0.	0.	0.	0.	6.65-08	1.03-09	2.98-09	2.23-10
1.20 02	0.	0.	0.	0.	6.85-08	3.35-10	4.53-09	7.03-10
1.40 02	0.	0.	0.	0.	7.83-08	8.01-09	6.50-10	2.92-09
1.60 02	0.	0.	0.	0.	1.25-08	1.61-07	5.10-10	8.82-10
1.80 02	0.	0.	0.	9.17-12	1.05-10	4.45-08	1.55-09	4.55-09
	4.78-08	3.52-08	2.62-08	4.16-08	6.17-08	3.66-08	6.32-09	6.65-09
	4.88-09	6.27-09	5.98-09	1.30-08	7.57-09	3.50-09	2.62-09	2.71-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	8.51-10
4.00 01	0.	0.	0.	0.	0.	0.	1.85-09	1.60-09
6.00 01	0.	0.	0.	0.	0.	2.40-11	1.58-09	5.24-10
8.00 01	0.	0.	0.	0.	0.	2.77-11	2.63-10	3.03-10
9.00 01	0.	0.	0.	0.	0.	2.46-12	2.13-09	4.18-10
1.00 02	0.	0.	0.	0.	0.	1.63-09	6.37-10	1.56-09
1.20 02	0.	0.	0.	0.	0.	7.07-10	3.01-09	2.53-09
1.40 02	0.	0.	0.	0.	1.76-12	6.39-09	1.46-09	2.09-09
1.60 02	0.	0.	0.	1.55-12	3.03-12	3.64-08	5.13-10	1.48-09
1.80 02	0.	0.	0.	1.35-09	3.32-11	7.93-09	3.12-09	5.69-10
	0.	0.	0.	8.14-11	2.99-12	9.03-09	2.96-09	2.58-09
	0.	0.	0.	8.11-11	1.52-12	4.60-09	7.18-10	7.00-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	2.62-09	0.	1.04-09
4.00 01	0.	0.	0.	0.	0.	0.	1.16-11	1.64-09
6.00 01	0.	0.	0.	0.	0.	0.	5.34-10	1.09-09
8.00 01	0.	0.	0.	0.	0.	6.22-09	1.17-09	2.19-10
9.00 01	0.	0.	0.	0.	0.	8.04-11	2.30-09	2.34-10
1.00 02	0.	0.	0.	0.	0.	3.90-10	5.59-09	5.26-10
1.20 02	0.	0.	0.	0.	1.61-11	1.47-09	6.78-10	4.43-09
1.40 02	0.	0.	0.	4.70-14	3.74-11	9.59-10	1.34-09	6.17-10
1.60 02	0.	0.	0.	2.47-11	4.18-11	7.29-09	3.38-10	4.55-10
1.80 02	0.	0.	0.	3.64-12	2.14-11	1.89-09	1.65-09	1.06-09
	0.	0.	0.	4.53-12	2.38-11	4.38-09	2.63-09	2.59-09
	0.	0.	0.	4.29-12	9.83-12	2.20-09	6.50-10	1.03-09

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	0.	4.76-09
4.00 01	0.	0.	0.	0.	0.	0.	3.12-11	2.62-09
6.00 01	0.	0.	0.	0.	0.	0.	2.78-09	2.03-09
8.00 01	0.	0.	0.	0.	0.	9.19-11	9.56-10	3.30-10
9.00 01	0.	0.	0.	0.	0.	7.58-10	1.14-09	4.60-10
1.00 02	0.	0.	0.	0.	0.	0.	8.26-10	3.31-10
1.20 02	0.	0.	0.	0.	0.	9.08-10	1.17-09	5.53-10
1.40 02	0.	0.	0.	0.	8.43-12	5.17-10	6.48-09	3.77-10
1.60 02	0.	0.	0.	0.	5.88-12	3.01-09	1.50-09	1.33-09
1.80 02	0.	0.	0.	0.	8.15-12	1.22-09	1.05-10	4.56-09
	0.	0.	0.	0.	3.76-12	1.19-09	3.77-09	2.31-09
	0.	0.	0.	0.	1.92-12	4.48-10	1.46-09	5.59-10

011053642675 306400356435

AIR SCATTERING 3.29 02 ENERGY 1.00 ANGLE 1.50 01 DIST. 1.22 03
5.80 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.	3.29-07
0.	0.	0.	0.	0.	0.	0.	5.87-08
0.	0.	0.	0.	0.	0.	0.	2.21-08
0.	0.	0.	0.	0.	0.	0.	1.28-08
0.	0.	0.	0.	0.	0.	0.	9.52-09
0.	0.	0.	0.	0.	0.	0.	9.41-09
0.	0.	0.	0.	0.	0.	0.	9.68-09
0.	0.	0.	0.	0.	0.	0.	1.07-08
0.	0.	0.	0.	0.	0.	0.	1.34-08
0.	0.	0.	0.	0.	0.	0.	2.50-09
0.	0.	0.	0.	0.	0.	0.	
							5.18-08

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		
4.25-10	4.22-11	8.74-11	4.60-12	1.74-13	8.66-18	2.99-27	2.12-07	2.13-08
2.96-10	1.96-09	2.31-10	2.00-11	1.24-12	9.13-18	1.54-30	3.84-08	6.84-09
2.72-09	4.92-10	1.40-10	1.72-09	2.35-13	1.11-17	2.06-24	1.42-08	3.30-09
7.15-10	5.52-10	6.78-10	1.13-10	1.69-13	5.45-17	1.35-22	1.19-08	3.99-09
1.52-09	2.84-10	8.35-10	1.49-10	1.14-13	2.23-16	4.89-24	6.20-09	2.29-09
8.02-10	6.05-10	1.81-10	6.57-11	1.71-12	2.19-16	1.45-24	6.19-09	2.12-09
5.19-10	9.28-10	6.39-10	1.79-10	2.63-13	8.14-16	1.99-25	6.42-09	1.33-09
1.25-09	6.50-10	9.01-10	1.04-10	3.16-13	7.57-15	1.32-24	7.62-09	1.14-09
1.21-09	8.59-10	5.24-09	3.82-11	6.05-13	2.35-17	1.50-24	9.35-09	7.29-10
2.87-09	2.73-10	5.40-10	7.82-11	4.21-11	2.12-16	1.57-26	2.54-09	1.78-10
2.29-09	1.45-09	1.87-09	6.35-10	3.48-12	2.33-15	4.62-23		
5.64-10	4.72-10	9.28-10	4.31-10	2.56-12	2.00-15	4.49-23	3.52-08	2.45-09

PHI 45 TO 90 DEGREES

6.39-10	9.83-11	2.92-11	7.68-12	6.89-13	2.00-16	1.49-24	4.68-11	1.97-11
1.43-10	8.95-11	8.13-11	1.36-10	2.10-12	3.28-18	3.21-25	1.36-10	6.13-11
8.19-10	3.26-10	6.78-10	9.26-11	2.00-12	3.23-19	2.45-28	1.17-10	3.87-11
5.71-10	2.81-10	4.58-10	1.98-10	4.82-13	1.21-16	2.55-27	4.80-11	1.01-11
4.90-10	9.75-11	2.69-09	1.06-10	1.73-13	8.50-17	6.44-27	1.47-10	5.37-11
1.94-09	4.79-10	1.15-10	1.28-10	1.73-13	1.94-16	5.15-23	1.96-10	9.54-1
6.91-10	9.01-10	4.73-10	5.73-11	4.38-13	1.42-16	1.01-27	2.79-10	8.94-1
6.02-10	1.07-09	3.62-10	4.93-11	5.52-13	1.06-16	1.57-29	4.85-10	2.83-1
8.65-10	1.50-09	4.89-10	5.06-11	2.05-12	0.87-18	1.11-26	1.94-09	1.25-0
5.44-10	1.68-10	3.01-10	3.55-10	1.82-12	2.53-15	2.67-26	7.01-10	2.17-1
1.30-09	1.15-09	1.19-09	2.16-10	1.91-12	3.29-16	9.10-24		
2.53-10	2.80-10	4.92-10	5.33-11	6.68-13	1.40-16	8.94-24	7.32-10	2.34-1

PHI 90 TO 135 DEGREES

3.15-12	1.17-11	5.68-10	1.33-11	6.73-15	6.75-15	9.27-25	1.74-10	1.32-1
7.12-10	5.98-11	2.03-10	1.13-10	7.00-13	5.12-18	1.37-26	7.85-11	4.31-1
1.81-09	9.16-10	1.92-10	5.06-11	8.98-13	9.57-18	5.62-25	1.15-10	4.05-1
2.09-10	2.89-10	2.49-10	1.92-09	4.35-13	1.01-16	1.60-24	3.95-10	2.94-1
1.50-10	2.62-10	7.70-10	2.32-11	1.01-12	1.33-17	1.49-24	1.21-10	5.39-1
3.35-10	1.65-10	3.64-10	7.83-11	4.28-12	8.66-16	3.57-26	2.77-10	1.30-1
2.85-10	4.33-09	5.38-10	4.42-11	5.99-13	9.99-16	1.67-25	3.32-10	1.49-1
2.34-10	8.10-10	4.63-10	6.93-11	1.60-12	7.54-15	7.36-22	1.50-10	3.71-1
5.12-10	1.53-10	1.10-09	5.16-11	1.52-12	9.62-16	1.03-24	4.28-10	2.78-1
5.14-10	2.90-10	4.96-10	4.01-11	6.65-13	1.39-17	1.05-28	2.22-10	5.01-1
9.79-10	2.10-09	9.18-10	7.21-10	2.35-12	3.31-15	1.97-22		
3.97-10	1.17-09	2.36-10	4.66-10	9.73-13	2.30-15	1.96-22	4.89-10	1.26-1

PHI 135 TO 180 DEGREES

1.41-10	4.46-10	5.91-11	1.64-12	1.33-14	1.10-18	1.31-24	1.73-10	9.76-1
1.00-10	5.89-10	2.75-10	1.86-11	6.04-14	1.55-15	9.19-28	1.05-10	4.73-1
4.30-10	6.95-11	4.55-11	1.95-11	9.21-13	3.15-15	1.11-24	1.93-10	9.74-1
6.43-10	4.21-10	6.47-11	2.36-11	4.50-13	6.52-17	8.01-22	7.74-11	2.09-1
3.90-10	1.83-10	5.64-11	3.92-11	3.25-12	7.96-17	5.49-29	1.13-10	5.55-1
6.29-10	3.79-10	1.88-10	8.57-11	3.00-12	1.24-16	2.31-23	6.88-11	2.28-1
4.91-10	5.10-10	1.23-10	3.68-11	9.70-14	1.58-16	8.31-24	1.33-10	5.10-1
3.93-10	4.94-10	8.30-11	5.18-11	1.86-13	2.24-17	6.54-27	3.17-10	1.99-1
2.22-10	1.29-10	3.54-11	3.58-11	2.10-11	1.89-15	1.99-23	2.65-10	9.77-1
6.86-10	8.65-10	1.28-09	2.33-10	1.29-11	1.05-16	3.34-21	2.69-10	1.22-1
8.72-10	7.55-10	2.73-10	8.40-11	6.00-12	1.56-15	4.73-22		
1.68-10	1.70-10	8.17-11	2.56-11	4.16-12	8.22-16	3.30-22	3.27-10	6.64-1
							5.77-08	3.95-0

AIR SCATTERING 3.30 02 ENERGY 1.00 ANGLE 3.00 01 DIST. 1.22 03
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	1.21-07	3.85-07	0.	0.	0.	0.	0.	0.
4.00 01	0.	2.71-08	9.51-08	0.	0.	0.	0.	0.
6.00 01	0.	0.	1.98-08	5.21-08	0.	0.	0.	0.
8.00 01	0.	0.	0.	3.15-08	2.49-08	0.	0.	0.
9.00 01	0.	0.	0.	0.	5.15-08	0.	0.	0.
1.00 02	0.	0.	0.	0.	4.75-08	0.	0.	0.
1.20 02	0.	0.	0.	0.	4.77-08	0.	0.	0.
1.40 02	0.	0.	0.	0.	1.82-08	4.85-08	0.	0.
1.60 02	0.	0.	0.	0.	0.	1.90-08	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	7.32-09	2.79-08	2.18-08	2.41-08	4.57-08	1.62-08	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	7.72-08	2.45-07	0.	0.	0.	0.	9.84-09	4.05-09
4.00 01	0.	2.91-08	6.06-08	0.	4.73-08	0.	9.43-09	3.83-10
6.00 01	0.	0.	1.26-08	3.93-08	0.	0.	3.32-09	4.82-09
8.00 01	0.	0.	0.	2.01-08	1.58-08	1.90-11	5.42-09	1.27-09
9.00 01	0.	0.	0.	0.	3.28-08	6.60-10	1.72-09	6.66-10
1.00 02	0.	0.	0.	0.	3.02-08	7.35-09	1.09-08	4.65-10
1.20 02	0.	0.	0.	0.	3.03-08	5.45-09	1.30-09	1.42-09
1.40 02	0.	0.	0.	0.	1.28-08	4.98-08	1.82-09	1.69-09
1.60 02	0.	0.	0.	1.96-12	5.12-10	2.55-08	1.50-08	1.28-09
1.80 02	0.	0.	0.	1.13-10	1.66-12	4.44-09	3.02-10	1.14-09
	4.66-09	1.99-08	1.39-08	1.70-08	3.77-08	2.11-08	1.06-08	3.41-09
	9.26-10	3.23-09	2.20-09	3.27-09	8.60-09	3.29-09	3.06-09	1.19-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.55-10	5.07-11
4.00 01	0.	0.	0.	0.	7.69-10	8.26-10	1.56-09	2.03-10
6.00 01	0.	0.	0.	0.	3.27-09	0.	2.89-09	6.60-10
8.00 01	0.	0.	0.	0.	0.	0.	7.71-10	7.07-10
9.00 01	0.	0.	0.	0.	0.	1.19-11	2.47-09	1.02-09
1.00 02	0.	0.	0.	0.	0.	3.31-10	4.67-09	2.13-09
1.20 02	0.	0.	0.	0.	0.	5.00-10	1.40-09	5.78-10
1.40 02	0.	0.	0.	0.	2.06-12	1.34-09	1.19-09	9.89-10
1.60 02	0.	0.	0.	1.49-10	3.41-10	1.58-09	1.84-09	1.01-09
1.80 02	0.	0.	0.	0.	1.17-10	1.72-09	3.19-10	2.38-10
	0.	0.	0.	2.59-11	1.07-09	1.10-09	3.66-09	1.83-09
	0.	0.	0.	2.49-11	5.52-10	2.50-10	9.26-10	3.87-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.84-11	2.32-09
4.00 01	0.	0.	0.	0.	0.	0.	1.26-09	1.86-09
6.00 01	0.	0.	0.	0.	0.	0.	5.83-10	3.63-10
8.00 01	0.	0.	0.	0.	0.	4.92-12	4.16-09	2.13-10
9.00 01	0.	0.	0.	0.	4.48-11	8.56-09	7.91-10	3.15-10
1.00 02	0.	0.	0.	0.	0.	1.26-10	1.15-09	3.58-10
1.20 02	0.	0.	0.	0.	1.55-10	5.07-12	1.40-09	1.36-09
1.40 02	0.	0.	0.	4.73-11	8.06-13	3.58-10	7.73-10	3.26-10
1.60 02	0.	0.	0.	0.	7.89-11	8.45-10	6.77-10	3.01-10
1.80 02	0.	0.	0.	7.32-12	3.83-11	1.63-10	4.86-10	3.83-10
	0.	0.	0.	1.30-11	7.47-11	1.76-09	2.88-09	1.35-09
	0.	0.	0.	9.55-12	5.21-11	1.49-09	1.29-09	2.85-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.96-09	1.89-09
4.00 01	0.	0.	0.	0.	0.	0.	2.91-12	3.25-09
6.00 01	0.	0.	0.	0.	0.	0.	6.70-10	2.65-09
8.00 01	0.	0.	0.	0.	0.	0.	5.64-10	7.81-10
9.00 01	0.	0.	0.	0.	0.	0.	1.17-09	1.72-09
1.00 02	0.	0.	0.	0.	0.	0.	2.34-09	4.31-11
1.20 02	0.	0.	0.	0.	0.	1.24-11	1.13-09	6.57-10
1.40 02	0.	0.	0.	0.	6.25-12	8.98-11	9.78-10	8.17-10
1.60 02	0.	0.	0.	0.	1.90-10	1.32-09	3.46-09	5.36-10
1.80 02	0.	0.	0.	0.	7.91-10	7.56-10	4.71-10	5.95-10
	0.	0.	0.	0.	8.24-11	3.03-10	2.35-09	3.83-09
	0.	0.	0.	0.	5.46-11	1.28-10	5.89-10	1.77-09

306400356435 066466120705

AIR SCATTERING 3.30 02 ENERGY 1.00 ANGLE 3.00 01 DIST. 1.22 03
5.80 01 1.72 03 0. 5.59 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.	1.05-07
0.	0.	0.	0.	0.	0.	0.	1.94-08
0.	0.	0.	0.	0.	0.	0.	8.18-09
0.	0.	0.	0.	0.	0.	0.	5.39-09
0.	0.	0.	0.	0.	0.	0.	4.63-09
0.	0.	0.	0.	0.	0.	0.	4.28-09
0.	0.	0.	0.	0.	0.	0.	4.29-09
0.	0.	0.	0.	0.	0.	0.	4.06-09
0.	0.	0.	0.	0.	0.	0.	9.51-10
0.	0.	0.	0.	0.	0.	0.	0.
							1.78-08

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		
6.03-11	3.28-11	1.35-09	1.60-11	1.73-13	2.30-18	1.40-22	6.73-08	7.56-09
1.29-09	2.61-10	2.71-10	4.31-11	3.64-12	9.31-17	3.67-21	1.93-08	5.20-09
8.72-10	1.12-10	3.74-10	3.99-11	5.70-13	3.88-15	1.62-28	6.15-09	1.24-09
1.80-09	2.16-10	9.59-11	1.89-11	9.28-13	6.99-16	1.54-26	3.74-09	6.55-10
3.43-10	2.59-10	1.46-10	1.13-10	4.30-12	2.06-18	8.16-29	3.09-09	7.15-10
6.54-10	1.89-10	1.70-10	3.90-10	5.49-12	2.04-18	3.24-23	3.57-09	7.08-10
7.05-10	8.41-10	7.92-10	2.79-10	5.84-13	3.08-16	1.39-24	3.15-09	3.66-10
1.04-09	3.23-10	4.83-10	7.98-11	2.12-13	5.17-17	1.53-26	3.80-09	6.14-10
8.69-10	3.56-10	3.44-10	5.58-11	5.13-13	2.11-17	2.20-27	2.00-09	5.74-10
7.85-10	1.78-09	1.32-09	9.67-12	1.38-13	3.07-16	4.59-22	3.46-10	1.23-10
1.92-09	7.55-10	8.40-10	2.35-10	3.15-12	1.41-15	6.79-22		
5.22-10	2.12-10	2.81-10	8.29-11	1.78-12	1.04-15	6.37-22	1.38-08	

PHI 45 TO 90 DEGREES

2.41-10	2.45-10	1.03-10	1.29-11	3.82-13	5.35-17	4.20-24	2.30-11	1.13-11
2.90-10	2.33-10	3.21-10	9.30-12	6.97-13	8.64-16	4.79-23	1.95-10	8.53-11
7.54-10	1.20-09	1.33-10	1.04-10	3.29-12	1.98-16	3.24-24	4.72-10	2.00-10
6.80-10	1.31-09	3.56-10	1.44-11	7.01-13	3.32-15	8.13-21	9.60-11	2.06-11
3.50-10	2.14-10	4.99-10	3.68-11	9.98-13	3.63-18	4.47-27	1.53-10	5.49-11
4.22-10	1.11-09	7.30-10	6.39-12	1.23-12	1.54-17	6.90-26	3.12-10	1.02-10
9.25-10	5.17-10	1.71-10	4.51-11	8.68-12	6.13-16	4.88-23	1.34-10	3.90-11
1.28-09	4.83-10	1.19-09	1.02-10	2.25-12	4.51-17	2.18-23	2.03-10	5.06-11
7.56-10	3.08-10	8.09-10	1.64-10	8.24-13	8.41-17	3.15-23	2.67-10	8.33-11
3.07-09	3.90-10	2.91-09	1.38-11	3.30-13	1.72-17	9.54-22	2.35-10	1.06-10
1.58-09	1.41-09	1.12-09	1.13-10	5.23-12	1.52-15	2.75-21		
3.31-10	2.97-10	3.62-10	3.76-11	2.01-12	9.92-16	2.65-21	4.31-10	6.90-11

PHI 90 TO 135 DEGREES

7.65-10	9.92-11	1.12-10	1.18-11	1.91-14	4.78-18	3.96-28	1.02-10	6.54-11
8.65-10	7.64-10	1.33-10	1.77-10	2.63-12	7.39-17	7.86-26	1.45-10	6.01-11
3.46-10	1.55-09	7.32-10	7.62-11	5.55-12	9.79-18	6.36-22	7.71-11	2.35-11
3.19-10	3.28-10	2.27-10	8.62-11	1.04-12	8.11-17	4.01-27	1.90-10	1.50-10
8.82-10	5.21-11	2.71-10	2.28-09	1.26-12	1.42-15	3.01-25	5.20-10	4.27-10
1.95-10	1.04-09	1.47-10	3.16-11	2.80-13	1.29-15	6.87-24	8.68-11	3.18-11
1.19-09	2.80-10	2.45-10	6.58-11	1.01-11	3.18-14	7.29-26	1.54-10	4.49-11
1.02-09	4.67-10	5.26-10	8.11-10	1.13-11	1.20-15	1.24-24	1.11-10	2.57-11
1.94-09	3.48-10	5.94-10	2.78-10	2.16-13	6.49-16	4.85-21	1.50-10	4.93-11
8.05-09	2.66-10	8.56-11	1.60-11	2.86-13	4.19-17	2.23-21	2.01-10	1.38-10
1.91-09	1.14-09	6.99-10	7.69-10	8.89-12	1.13-14	1.15-21		
5.64-10	2.97-10	1.70-10	4.25-10	3.76-12	7.66-15	8.69-22	3.37-10	9.32-11

PHI 135 TO 180 DEGREES

5.04-11	9.98-11	4.63-10	9.88-11	8.59-14	1.12-16	2.39-25	1.52-10	8.46-11
1.04-10	2.53-10	5.21-11	1.48-10	3.86-12	2.30-15	8.83-26	1.19-10	3.68-11
1.01-09	1.25-10	1.13-10	1.52-10	2.55-13	1.48-18	1.31-24	3.17-10	2.20-10
2.50-10	2.01-10	1.46-10	5.13-10	3.87-12	5.82-16	4.15-28	6.48-11	2.27-11
8.61-10	1.20-10	1.31-09	3.01-11	1.28-13	1.96-18	5.27-29	1.45-10	6.56-11
2.43-10	1.53-10	7.53-11	6.17-11	5.49-13	8.13-17	1.72-26	1.05-10	6.50-11
2.76-10	1.84-10	6.17-10	1.37-10	1.48-12	3.60-16	4.33-24	8.63-11	2.24-11
2.91-10	1.21-10	3.52-09	3.58-10	4.52-13	3.72-16	1.40-21	1.26-10	4.85-11
4.24-10	8.07-10	1.38-09	7.60-11	3.67-13	1.91-16	2.19-22	2.80-10	1.06-10
2.46-09	3.50-10	1.84-09	8.48-12	6.68-13	1.81-15	6.94-22	2.37-10	9.35-11
9.52-10	4.50-10	1.84-09	4.09-10	2.83-12	9.52-16	4.54-22		
2.23-10	1.05-10	9.07-10	2.06-10	1.12-12	4.49-16	4.08-22	3.03-10	6.81-11
							2.34-08	1.88-09

AIR SCATTERING 3.31 02 ENERGY 1.00 ANGLE 6.00 01 DIST. 1.22 03
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.	1.43-07	3.38-08	0.	0.	0.	0.
4.00 01	0.	0.	0.	6.30-08	0.	0.	0.	0.
6.00 01	0.	0.	0.	2.13-09	3.53-08	0.	0.	0.
8.00 01	0.	0.	0.	0.	2.65-08	0.	0.	0.
9.00 01	0.	0.	0.	0.	2.17-08	0.	0.	0.
1.00 02	0.	0.	0.	0.	1.34-08	8.68-09	0.	0.
1.20 02	0.	0.	0.	0.	0.	1.44-08	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.	8.84-09	1.37-08	2.41-08	6.20-09	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.	9.12-08	2.28-08	0.	3.65-08	1.77-09	1.90-09
4.00 01	0.	0.	0.	4.01-08	7.88-10	0.	3.85-09	4.83-10
6.00 01	0.	0.	0.	1.36-09	2.45-08	2.00-09	1.28-09	8.01-10
8.00 01	0.	0.	0.	0.	2.41-08	3.90-09	2.51-09	3.03-09
9.00 01	0.	0.	0.	0.	1.44-08	3.81-09	5.26-10	6.32-10
1.00 02	0.	0.	0.	0.	1.10-08	1.34-08	7.03-10	1.02-09
1.20 02	0.	0.	0.	0.	9.10-10	1.80-08	1.65-09	1.46-09
1.40 02	0.	0.	0.	0.	2.52-10	2.40-09	9.02-10	1.35-09
1.60 02	0.	0.	0.	0.	1.75-13	2.76-09	9.22-10	1.08-09
1.80 02	0.	0.	0.	0.	2.79-11	2.92-10	4.51-09	5.44-10
	0.	0.	5.50-09	8.70-09	1.93-08	1.40-08	3.36-09	2.74-09
	0.	0.	7.67-10	1.08-09	1.77-09	2.47-09	6.30-10	6.28-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.39-09	3.54-10
4.00 01	0.	0.	0.	0.	0.	6.80-10	3.44-09	8.17-10
6.00 01	0.	0.	0.	0.	2.79-09	7.61-11	2.98-09	9.61-10
8.00 01	0.	0.	0.	0.	0.	6.22-11	2.47-09	4.93-10
9.00 01	0.	0.	0.	0.	0.	7.35-11	1.73-09	1.62-09
1.00 02	0.	0.	0.	0.	0.	1.11-09	3.55-09	8.38-10
1.20 02	0.	0.	0.	0.	1.10-12	9.02-10	8.48-10	7.38-10
1.40 02	0.	0.	0.	0.	5.55-11	2.95-10	6.18-10	9.23-10
1.60 02	0.	0.	0.	0.	1.97-14	1.48-10	2.73-09	5.41-10
1.80 02	0.	0.	0.	0.	3.68-12	1.18-10	2.46-10	1.55-10
	0.	0.	0.	0.	7.57-10	7.71-10	4.13-09	1.80-09
	0.	0.	0.	0.	7.42-10	2.24-10	7.98-10	3.38-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	2.08-09	2.54-10
4.00 01	0.	0.	0.	0.	0.	8.28-10	2.01-09	1.28-09
6.00 01	0.	0.	0.	0.	0.	0.	1.41-09	1.20-09
8.00 01	0.	0.	0.	0.	0.	0.	1.54-09	1.01-09
9.00 01	0.	0.	0.	0.	0.	0.	2.13-10	7.40-11
1.00 02	0.	0.	0.	0.	0.	0.	5.22-09	1.53-10
1.20 02	0.	0.	0.	0.	1.19-12	6.17-12	9.23-10	4.25-10
1.40 02	0.	0.	0.	0.	0.	1.26-11	2.45-10	1.53-10
1.60 02	0.	0.	0.	0.	0.	4.76-10	4.40-09	3.65-10
1.80 02	0.	0.	0.	3.88-12	0.	0.	3.12-10	1.21-09
	0.	0.	0.	2.34-13	3.89-13	2.32-10	3.45-09	1.24-09
	0.	0.	0.	2.34-13	3.89-13	1.66-10	8.69-10	2.86-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.41-12	7.65-10
4.00 01	0.	0.	0.	0.	0.	0.	9.38-12	9.45-10
6.00 01	0.	0.	0.	0.	0.	0.	2.54-11	4.78-10
8.00 01	0.	0.	0.	0.	0.	0.	4.49-10	3.40-10
9.00 01	0.	0.	0.	0.	0.	4.83-11	3.33-11	1.08-09
1.00 02	0.	0.	0.	0.	0.	0.	0.	7.53-10
1.20 02	0.	0.	0.	0.	0.	1.38-10	9.56-10	2.07-10
1.40 02	0.	0.	0.	0.	1.98-11	5.54-13	8.06-10	1.72-10
1.60 02	0.	0.	0.	0.	0.	2.42-10	9.53-10	4.46-10
1.80 02	0.	0.	0.	0.	0.	2.28-10	1.88-10	4.39-10
	0.	0.	0.	0.	5.27-12	1.09-10	8.64-10	9.83-10
	0.	0.	0.	0.	5.27-12	6.12-11	3.05-10	2.17-10

066466120705 275731750425

AIR SCATTERING 3,31 02 ENERGY 1,00 ANGLE 6,00 01 DIST. 1.22 03
4.30 01 1.74 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.	2,51-08
0.	0.	0.	0.	0.	0.	0.	6,30-09
0.	0.	0.	0.	0.	0.	0.	3,39-09
0.	0.	0.	0.	0.	0.	0.	2,39-09
0.	0.	0.	0.	0.	0.	0.	1,96-09
0.	0.	0.	0.	0.	0.	0.	1,64-09
0.	0.	0.	0.	0.	0.	0.	7,19-10
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.	
							5.14-09

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		
1.68-09	3,11-10	8.26-10	1.39-10	9,22-14	4.40-20	0,	1,80-08	2,81-09
7,11-10	2,45-10	3.49-10	9.49-10	2,70-12	7,33-18	3,51-32	4,29-09	5,71-10
8.95-10	1,03-09	1.88-10	6.37-11	2,75-13	8,41-16	8,36-28	2,56-09	3,56-10
9.33-10	6,72-10	3.06-10	1.19-10	8,16-13	9.59-17	2,11-25	2,60-09	4,32-10
6.63-10	8,19-10	5.04-10	1.35-10	2,18-12	1,38-16	4,44-29	1,56-09	1,72-10
9.08-10	2,15-09	8.15-10	2.08-10	1,33-12	7,26-16	6,07-30	1,78-09	2,04-10
1,95-09	2,95-10	2,47-10	2,48-11	1,06-12	1,71-16	2,01-27	1,15-09	1,92-10
9.81-10	4,24-09	1.10-09	3,43-11	7,77-12	6,49-16	1,37-22	3,26-10	7,49-11
1.02-09	8,64-10	1.19-09	2,92-10	1,70-12	1,81-17	1,61-22	2,64-10	7,92-11
1.28-10	3,30-10	2.31-10	5.36-12	9.42-14	1.37-15	2.87-28	2.27-10	1.59-10
2.12-09	2,43-09	1.08-09	3,57-10	4,14-12	7,20-16	6,43-23		
3.85-10	9,32-10	8.01-10	1.71-10	2,33-12	3.15-16	4.23-23	4.46-09	2.86-10

PHI 45 TO 90 DEGREES

3,01-09	3,82-10	6,09-10	6,85-13	8,57-15	1,09-19	2,63-29	1,56-10	7,42-11
4,79-10	5,93-11	2,36-10	2,91-19	7,24-13	6,89-16	1,78-30	2,18-10	7,10-11
9,12-10	2,04-10	1,81-10	9,40-11	1,73-12	1,76-15	4,23-27	4,36-10	2,59-10
3,48-09	4,67-10	3,99-10	8,05-11	2,49-12	3,32-16	3,82-24	2,18-10	8,87-11
1,00-09	4,03-10	1,02-10	1,69-11	7,12-12	2,09-16	9,34-27	1,60-10	5,33-11
5,04-10	2,81-10	3,22-10	1.16-08	6.35-13	5,34-15	8.58-25	3.51-10	1,37-10
3,71-10	4,13-10	1,06-10	3,12-10	3,34-12	1,25-16	1,92-24	1,24-10	2,69-11
2,26-09	5,96-10	5,11-11	8,29-11	1,06-12	6,70-17	6,50-27	1,43-10	4,70-11
1,14-09	6,34-10	1,93-10	1,27-10	1,39-13	8,48-17	3,21-28	1,76-10	7,72-11
1.05-10	3.62-10	2.31-11	5.94-12	4.40-13	3.19-18	8.13-30	2.97-11	8.50-12
2,83-09	7,84-10	4,13-10	2,27-09	4,17-12	1.73-15	2,03-24		
1.13-09	1.44-10	7.65-11	2.01-09	1.71-12	9.81-16	1.33-24	4.34-10	8.69-11

PHI 90 TO 135 DEGREES

2,69-10	3,93-10	1.86-10	1.78-11	9,27-14	4.82-18	6,50-28	1,07-10	7,03-11
2.77-09	1,66-10	2.89-10	4.45-11	7,50-12	2.47-15	3,24-26	2,41-10	7,48-11
4.15-10	3,03-10	2.33-10	2.59-11	7,76-12	9.10-17	2,48-23	1,15-10	3,85-11
4.06-10	2,43-10	5.79-09	1.24-10	1,86-11	1.09-16	6,54-23	1.81-10	7,73-11
8.09-10	1,97-10	9.81-11	3.89-10	1,34-12	6.96-16	2,25-25	3,89-11	1,32-11
1.49-09	4,92-11	1.20-10	3.92-10	8,56-13	3.85-16	2,25-25	2,57-10	1,09-10
1.64-10	5,13-09	3.77-09	1.11-10	2,02-12	5.61-17	4,91-28	1,79-10	1,19-10
1.68-10	1,03-09	9.58-10	1,52-10	1,53-11	4,71-18	2,31-27	4,83-11	1,52-11
8.79-10	2,88-10	2.30-10	1,42-11	2,70-14	4,17-19	9,16-27	2,41-10	1,37-10
3.54-09	2.49-10	1.41-10	1.92-12	8.02-12	2.38-15	9.96-29	1.48-10	8.99-11
1.60-09	2,27-09	3.58-09	2,71-10	1,50-11	8,40-16	2,80-23		
4.84-10	1.62-09	2.20-09	8.10-11	6.69-12	4.42-16	2.21-23	3.11-10	6.40-11

PHI 135 TO 180 DEGREES

1,11-09	5,43-09	9.59-11	4,16-13	8,32-14	1,38-18	1,50-26	1,36-10	8,11-11
4,95-10	1,43-10	3,95-11	1,01-10	1,14-13	9,14-18	7,74-28	4,79-11	2,05-11
2,08-10	3,45-10	6,39-10	1,55-10	2,38-13	9,90-14	1,27-24	3,67-11	9,81-12
8.81-11	1,76-10	1.21-10	1,32-11	1,27-12	5,82-13	2,47-27	3,60-11	1,66-11
4,80-10	1,23-10	2,84-10	7,80-12	7,68-14	2,20-17	1,46-26	5,53-11	1,80-11
3,10-10	2,88-11	4,72-10	2,98-11	5,61-14	1,91-16	6,79-22	3,97-11	1,95-11
2,89-10	2,40-10	2,58-10	1.89-11	7,08-14	1.61-18	5,34-23	6,62-11	3,00-11
7,25-10	3,79-10	1,41-10	7,02-11	6,23-14	1,44-17	8,18-25	6,60-11	2,53-11
1,45-10	1,81-10	4,28-10	7,20-12	1,19-11	6,32-17	3,78-26	7,70-11	2,44-11
3.70-10	8.73-11	4.42-11	1.34-11	1.48-14	3.96-18	4.02-29	4.51-11	1.70-11
6,91-10	7,44-10	5,49-10	9,65-11	2,63-12	2,16-13	1,36-22		
1.67-10	3.19-10	1.44-10	3.34-11	2.09-12	2.16-13	1.35-22	1.10-10	1.77-11
							8.35-09	5.08-10

AIR SCATTERING 3.32 02 ENERGY 1.00 ANGLE 9.00 01 DIST 1.22 03
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.	8.10-08	6.88-08	0.	0.	0.
4.00 01	0.	0.	0.	0.	4.70-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	2.58-08	0.	0.	0.
8.00 01	0.	0.	0.	0.	5.99-09	1.31-08	0.	0.
9.00 01	0.	0.	0.	0.	0.	3.25-09	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.	4.89-09	2.11-08	4.84-09	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.	5.16-08	4.38-08	0.	3.81-10	2.03-10
4.00 01	0.	0.	0.	0.	3.10-08	1.86-09	4.47-09	8.60-10
6.00 01	0.	0.	0.	0.	2.01-08	5.78-09	1.36-09	9.10-09
8.00 01	0.	0.	0.	0.	5.51-09	1.56-08	1.20-09	1.21-09
9.00 01	0.	0.	0.	0.	2.82-10	7.70-09	9.82-10	1.07-09
1.00 02	0.	0.	0.	0.	6.63-12	9.71-09	2.55-10	8.80-10
1.20 02	0.	0.	0.	0.	9.55-14	2.17-09	8.29-10	1.62-09
1.40 02	0.	0.	0.	0.	9.80-13	4.85-10	1.18-09	5.99-10
1.60 02	0.	0.	0.	0.	0.	2.16-10	4.99-10	2.47-10
1.80 02	0.	0.	0.	0.	0.	0.	2.58-10	3.36-11
	0.	0.	0.	3.11-09	1.52-08	1.09-08	2.45-09	4.05-09
	0.	0.	0.	5.37-10	9.69-10	1.35-09	3.76-10	2.20-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	3.32-09	0.	8.78-09	3.73-10
4.00 01	0.	0.	0.	0.	0.	5.76-10	2.08-09	5.72-09
6.00 01	0.	0.	0.	0.	0.	8.07-10	2.34-09	1.05-09
8.00 01	0.	0.	0.	0.	0.	4.36-10	1.19-09	1.03-09
9.00 01	0.	0.	0.	0.	0.	9.07-11	4.28-10	4.63-10
1.00 02	0.	0.	0.	0.	9.36-12	1.98-09	9.65-10	6.05-10
1.20 02	0.	0.	0.	0.	0.	1.04-10	1.28-09	4.98-10
1.40 02	0.	0.	0.	0.	0.	4.66-10	9.91-10	3.95-10
1.60 02	0.	0.	0.	0.	0.	2.33-12	6.43-10	4.60-10
1.80 02	0.	0.	0.	0.	0.	0.	2.86-11	2.08-10
	0.	0.	0.	0.	2.02-10	9.75-10	2.94-09	2.18-09
	0.	0.	0.	0.	1.42-10	3.91-10	6.32-10	6.76-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	2.35-09	3.02-09	4.92-10
4.00 01	0.	0.	0.	0.	0.	0.	3.12-09	1.73-09
6.00 01	0.	0.	0.	0.	0.	0.	8.87-10	1.94-10
8.00 01	0.	0.	0.	0.	0.	1.06-13	4.62-10	1.19-10
9.00 01	0.	0.	0.	0.	0.	0.	2.52-10	5.07-10
1.00 02	0.	0.	0.	0.	0.	1.02-10	2.07-10	6.28-10
1.20 02	0.	0.	0.	0.	3.59-12	9.40-10	3.93-10	2.40-10
1.40 02	0.	0.	0.	0.	0.	1.25-12	1.69-10	3.70-10
1.60 02	0.	0.	0.	0.	4.71-09	4.11-13	1.21-09	7.49-10
1.80 02	0.	0.	0.	0.	0.	3.23-13	1.24-11	4.96-12
	0.	0.	0.	0.	8.20-10	4.67-10	1.57-09	9.25-10
	0.	0.	0.	0.	8.18-10	3.54-10	3.50-10	3.18-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	4.16-09	1.87-09
4.00 01	0.	0.	0.	0.	0.	0.	9.16-10	1.20-09
6.00 01	0.	0.	0.	0.	0.	0.	2.63-11	2.02-10
8.00 01	0.	0.	0.	0.	0.	0.	1.09-09	3.64-10
9.00 01	0.	0.	0.	0.	0.	0.	3.14-10	6.16-10
1.00 02	0.	0.	0.	0.	0.	0.	1.55-11	1.74-09
1.20 02	0.	0.	0.	0.	0.	8.40-13	1.71-10	6.50-10
1.40 02	0.	0.	0.	0.	0.	2.84-11	1.98-10	5.73-10
1.60 02	0.	0.	0.	0.	0.	1.50-11	2.55-10	7.75-10
1.80 02	0.	0.	0.	0.	0.	2.40-12	1.40-09	3.00-10
	0.	0.	0.	0.	0.	1.06-11	1.07-09	1.42-09
	0.	0.	0.	0.	0.	6.16-12	2.60-10	4.15-10

275731750425 115336751575

AIR SCATTERING 3.32 02 ENERGY 1.00 ANGLE 9.00 01 DIST. 1.22 03
5.40 01 1.74 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.	1.43-08
0.	0.	0.	0.	0.	0.	0.	4.23-09
0.	0.	0.	0.	0.	0.	0.	2.32-09
0.	0.	0.	0.	0.	0.	0.	1.19-09
0.	0.	0.	0.	0.	0.	0.	1.62-10
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.	
							2.63-09

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		
6.83-11	2.39-10	9.62-10	2.69-11	3.26-14	1.59-18	3.75-35	9.14-09	1.14-09
8.17-10	3.62-10	3.59-10	4.56-10	3.80-12	1.92-16	4.30-29	3.13-09	3.35-10
6.70-10	3.69-10	2.18-10	2.77-11	2.04-13	1.14-15	1.46-27	2.48-09	3.55-10
6.22-10	7.73-10	2.51-10	3.14-11	2.32-12	2.72-16	5.24-23	1.40-09	1.09-10
8.83-10	3.76-10	3.46-10	5.45-11	3.35-13	5.69-17	2.65-26	5.18-10	1.02-10
1.08-09	7.89-10	1.63-09	8.13-11	2.01-12	5.26-15	5.35-24	5.85-10	3.19-10
1.01-09	5.86-10	3.06-10	2.21-10	1.43-12	8.86-16	1.80-23	2.37-10	4.09-11
7.96-10	3.30-10	6.00-10	2.62-11	6.50-13	2.20-16	1.80-25	1.24-10	3.93-11
1.46-09	2.99-10	8.48-11	5.89-12	5.65-13	9.77-19	1.39-27	8.12-11	2.27-11
7.54-10	1.48-09	6.57-11	3.56-12	1.52-14	1.33-18	8.03-30	5.33-11	2.87-11
1.71-09	1.05-09	8.82-10	2.02-10	2.62-12	1.70-15	2.40-23		
2.91-10	1.77-10	3.27-10	6.38-11	8.55-13	7.92-16	1.83-23	2.53-09	1.52-10

PHI 45 TO 90 DEGREES

7.41-10	8.56-11	1.43-10	2.30-11	5.53-14	6.24-19	7.19-32	6.84-10	3.82-10
1.19-09	1.08-09	2.88-10	4.06-11	3.11-12	5.15-16	2.39-25	3.56-10	1.32-10
8.00-10	1.36-09	5.12-10	6.35-11	1.21-12	1.12-15	5.62-26	2.18-10	5.36-11
7.65-10	3.14-10	5.36-10	4.96-11	7.86-13	2.07-16	3.06-25	1.35-10	2.78-11
2.93-09	2.38-09	1.70-09	1.30-11	6.24-13	2.68-17	4.23-27	1.67-10	7.08-11
5.50-10	3.17-10	1.72-10	1.98-11	3.58-12	3.13-14	9.25-26	1.80-10	8.38-11
1.51-09	1.42-09	2.99-10	2.27-11	2.19-11	5.90-16	1.27-23	1.37-10	3.59-11
9.82-10	5.51-10	1.97-10	3.42-11	1.31-12	1.42-15	8.35-31	1.12-10	3.79-11
8.13-10	1.32-10	7.03-11	1.80-11	3.66-13	2.00-17	7.88-25	6.48-11	2.07-11
3.20-10	1.73-10	2.68-11	1.07-12	4.31-13	1.98-19	1.75-24	1.91-11	8.79-12
2.25-09	1.77-09	8.58-10	6.69-11	9.43-12	6.47-15	4.55-24		
4.45-10	6.94-10	3.09-10	1.47-11	7.21-12	4.62-15	4.11-24	3.52-10	5.38-11

PHI 90 TO 135 DEGREES

1.05-10	8.45-11	6.15-11	1.29-10	3.36-14	5.87-16	3.39-27	2.61-10	1.46-10
1.18-10	2.68-09	7.67-10	4.98-10	2.78-13	1.62-17	2.69-31	2.40-10	8.75-11
2.24-10	4.58-10	7.25-11	4.79-11	2.29-12	1.37-16	1.27-22	5.59-11	1.77-11
3.48-10	9.20-10	3.96-10	1.21-10	2.43-13	2.70-17	6.09-23	5.08-11	1.36-11
7.57-11	4.15-10	1.90-10	7.24-11	1.86-12	2.94-17	8.32-25	3.83-11	9.83-12
7.70-11	2.84-10	5.65-11	1.55-11	1.47-12	3.86-15	6.32-26	4.17-11	1.94-11
5.62-10	3.31-10	8.63-11	1.16-11	5.82-13	2.47-15	1.12-26	9.13-11	4.83-11
3.12-10	4.23-10	8.27-11	1.49-11	7.37-12	2.41-16	2.16-25	3.47-11	1.02-11
2.68-10	1.52-10	1.51-10	9.61-12	2.18-12	1.17-15	6.04-27	5.09-10	4.26-10
3.97-10	3.93-11	9.96-11	1.85-13	2.40-16	1.65-14	3.31-22	1.24-11	6.19-12
5.63-10	1.26-09	4.10-10	1.71-10	3.85-12	2.83-15	7.38-23		
1.14-10	4.51-10	1.52-10	7.41-11	1.94-12	1.38-15	4.32-23	2.31-10	7.91-11

PHI 135 TO 180 DEGREES

4.96-11	5.00-11	2.94-10	6.89-11	8.17-13	3.37-15	3.69-25	2.36-10	9.46-11
1.39-10	1.56-09	2.55-10	1.03-10	8.81-13	1.60-15	6.14-27	1.09-10	3.59-11
8.29-10	7.55-10	1.01-10	6.21-11	3.49-13	6.57-16	1.85-25	4.17-11	1.88-11
3.21-10	2.84-10	5.74-11	4.80-11	2.20-11	4.27-17	4.09-24	6.94-11	2.52-11
5.65-11	2.14-10	2.18-10	1.02-10	3.79-13	3.06-16	1.23-27	4.22-11	2.33-11
7.36-10	2.81-10	5.92-11	2.01-11	4.45-12	6.80-16	1.73-26	8.32-11	6.77-11
1.66-10	4.61-10	5.24-11	4.96-12	4.22-11	4.66-10	2.58-24	4.10-11	1.20-11
7.80-10	3.01-10	2.33-10	2.02-11	1.94-13	1.87-16	4.69-28	5.59-11	1.70-11
2.24-10	6.24-11	6.27-11	3.47-11	4.28-12	7.55-16	3.27-26	4.49-11	2.56-11
1.59-11	1.67-10	7.06-11	4.40-11	1.69-14	6.13-17	2.99-21	7.03-11	5.83-11
7.92-10	9.04-10	2.50-10	1.14-10	2.29-11	1.18-15	1.83-22		
2.51-10	3.27-10	6.09-11	4.04-11	1.57-11	3.86-16	1.81-22	1.29-10	2.25-11
							5.09-09	3.10-10

AIR SCATTERING 3.33 02 ENERGY 1.00 ANGLE 1.35 02 DIST. 1.22 03
1.25-03 1.07-02 3.20 01 1.9T-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.	1.83-07	0.	0	0.
4.00 01	0.	0.	0.	0.	5.94-09	5.82-08	0.	0.
6.00 01	0.	0.	0.	0.	0.	6.66-10	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.	1.20-08	1.03-08	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.	1.17-07	7.03-09	1.35-10	4.57-10
4.00 01	0.	0.	0.	0.	4.77-09	4.72-08	1.13-09	2.15-09
6.00 01	0.	0.	0.	0.	2.78-11	6.30-09	1.09-09	1.03-09
8.00 01	0.	0.	0.	0.	0.	1.54-09	4.56-10	7.38-10
9.00 01	0.	0.	0.	0.	0.	2.69-10	1.25-09	1.15-09
1.00 02	0.	0.	0.	0.	0.	3.98-11	9.93-10	2.77-10
1.20 02	0.	0.	0.	0.	0.	3.93-12	1.05-09	3.48-10
1.40 02	0.	0.	0.	0.	0.	0.	1.02-10	4.26-10
1.60 02	0.	0.	0.	0.	0.	0.	2.06-10	4.19-10
1.80 02	0.	0.	0.	0.	0.	0.	5.93-11	2.05-10
	0.	0.	0.	0.	7.89-09	1.08-08	1.44-09	1.48-09
	0.	0.	0.	0.	6.37-10	6.63-10	2.87-10	2.50-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	9.38-09	1.53-09	3.20-10
4.00 01	0.	0.	0.	0.	0.	6.23-09	8.12-10	4.39-10
6.00 01	0.	0.	0.	0.	0.	1.08-09	1.03-09	9.21-09
8.00 01	0.	0.	0.	0.	0.	2.57-09	9.40-10	1.92-09
9.00 01	0.	0.	0.	0.	0.	3.67-12	2.09-09	1.56-09
1.00 02	0.	0.	0.	0.	0.	5.55-11	5.75-10	6.04-10
1.20 02	0.	0.	0.	0.	0.	4.38-12	5.69-10	4.89-10
1.40 02	0.	0.	0.	0.	0.	3.29-11	9.11-10	7.72-10
1.60 02	0.	0.	0.	0.	0.	0.	3.13-10	2.53-10
1.80 02	0.	0.	0.	0.	0.	0.	2.95-10	1.76-10
	0.	0.	0.	0.	0.	2.79-09	1.78-09	3.97-09
	0.	0.	0.	0.	0.	8.66-10	3.30-10	2.35-09

PHI 90 TO 135 DEGREFS

2.00 01	0.	0.	0.	0.	0.	1.33-09	3.65-09	9.41-10
4.00 01	0.	0.	0.	0.	0.	1.50-09	3.40-09	7.38-10
6.00 01	0.	0.	0.	0.	0.	5.28-13	9.16-10	1.67-09
8.00 01	0.	0.	0.	0.	0.	0.	4.17-10	7.50-10
9.00 01	0.	0.	0.	0.	0.	3.71-14	1.61-10	1.98-09
1.00 02	0.	0.	0.	0.	3.56-12	0.	3.69-10	8.37-10
1.20 02	0.	0.	0.	0.	0.	6.37-12	3.49-10	7.90-10
1.40 02	0.	0.	0.	0.	0.	0.	3.31-11	2.60-10
1.60 02	0.	0.	0.	0.	0.	9.72-13	2.73-11	2.72-10
1.80 02	0.	0.	0.	0.	0.	0.		2.26-09
	0.	0.	0.	0.	6.19-13	3.43-10	1.41-09	1.87-09
	0.	0.	0.	0.	6.18-13	2.06-10	3.60-10	4.51-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	6.21-11	8.86-09	1.57-09
4.00 01	0.	0.	0.	0.	0.	1.35-08	1.61-09	5.96-10
6.00 01	0.	0.	0.	0.	0.	5.99-12	3.29-10	3.46-10
8.00 01	0.	0.	0.	0.	0.	3.62-11	5.81-10	3.51-10
9.00 01	0.	0.	0.	0.	0.	2.62-11	1.21-09	3.88-10
1.00 02	0.	0.	0.	0.	0.	3.98-13	2.57-10	4.47-10
1.20 02	0.	0.	0.	0.	0.	1.15-11	1.53-11	6.19-10
1.40 02	0.	0.	0.	0.	0.	0.	1.46-12	8.39-10
1.60 02	0.	0.	0.	0.	0.	0.	1.21-11	2.21-10
1.80 02	0.	0.	0.	0.	0.	0.	1.66-11	1.14-10
	0.	0.	0.	0.	0.	2.37-09	1.36-09	1.02-09
	0.	0.	0.	0.	0.	2.27-09	4.97-10	2.39-10

354543244005 011772022351

AIR SCATTERING 3.33 02 ENERGY 1.00 ANGLE 1.35 02 DIST. 1.22 03

5.20 01	1.74 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.	1.64-08	
0.	0.	0.	0.	0.	0.	0.	3.44-09	
0.	0.	0.	0.	0.	0.	0.	3.33-11	
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.	1.60-09	

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		
5.97-10	5.91-10	1.42-10	4.90-12	1.34-13	5.80-17	5.54-29	1.09-08	9.42-10
4.72-10	1.72-09	2.32-10	4.36-11	4.50-12	8.72-18	3.90-24	2.95-09	1.58-10
5.43-10	9.70-10	2.66-10	2.78-11	9.95-13	5.07-17	5.48-25	4.28-10	7.36-11
6.99-10	2.31-10	2.24-10	6.92-11	3.48-13	5.00-16	3.52-25	1.44-10	3.30-11
6.87-10	2.20-10	1.67-10	8.41-11	2.85-13	6.12-17	6.32-25	1.26-10	4.39-11
4.80-10	2.56-10	4.49-10	3.41-11	2.65-12	2.49-16	8.71-27	7.27-11	2.12-11
4.85-10	2.32-10	3.33-10	1.17-10	9.68-13	3.22-15	3.77-27	7.49-11	1.83-11
2.83-10	1.35-10	1.16-10	5.16-10	1.82-13	1.36-14	6.82-30	3.37-11	1.19-11
8.25-10	3.96-10	1.13-09	1.75-10	1.96-12	2.88-16	1.57-28	5.91-11	1.85-11
1.92-11	5.11-12	2.30-10	1.29-11	3.48-13	5.42-16	2.99-30	1.28-11	3.97-12
1.04-09	9.31-10	6.49-10	2.65-10	2.40-12	4.99-15	1.32-24		
1.50-10	2.47-10	2.07-10	1.34-10	9.44-13	4.66-15	7.50-25	1.41-09	7.07-11

PHI 45 TO 90 DEGREES

3.01-10	3.72-10	4.50-09	2.73-11	1.29-13	4.79-19	5.23-26	6.08-10	3.73-10
9.73-10	1.64-09	4.48-10	3.48-10	2.82-13	1.10-16	2.32-29	4.17-10	1.37-10
8.79-10	3.53-10	2.10-10	5.76-11	4.69-13	3.03-16	1.09-25	4.38-10	2.92-10
4.82-10	6.19-10	2.54-10	1.19-10	1.60-12	4.36-16	5.56-25	2.57-10	1.26-10
1.48-09	2.09-10	2.85-10	7.74-11	5.71-13	7.36-17	4.52-26	1.81-10	6.32-11
8.58-10	3.08-10	1.34-10	1.14-11	1.68-13	7.16-16	2.68-25	7.41-11	2.00-11
4.62-10	4.25-10	7.09-11	8.16-12	1.61-12	2.52-15	2.28-23	5.85-11	1.69-11
2.51-10	2.10-10	1.10-10	1.33-11	1.72-12	1.68-18	7.10-25	7.52-11	3.53-11
1.25-09	3.88-10	3.37-11	1.37-11	1.69-12	1.35-14	5.30-27	5.88-11	2.14-11
4.92-10	3.64-11	1.29-10	1.67-11	8.07-12	3.73-18	1.23-28	3.24-11	1.54-11
1.45-09	9.57-10	6.27-10	1.41-10	2.59-12	3.55-15	7.89-24		
2.76-10	2.04-10	2.75-10	4.38-11	8.04-13	2.42-15	5.41-24	4.05-10	9.70-11

PHI 90 TO 135 DEGREES

5.55-10	1.73-10	9.79-11	2.17-11	3.08-14	9.72-17	9.78-29	2.62-10	9.29-11
1.23-09	4.50-10	2.43-10	6.39-10	2.74-13	1.34-17	1.01-26	2.82-10	9.65-11
4.39-10	6.55-10	5.20-10	2.93-10	2.22-13	9.70-16	4.91-26	1.23-10	3.36-11
5.03-10	2.93-10	7.78-11	2.24-11	2.23-13	8.88-16	6.64-21	6.03-11	1.90-11
5.13-10	1.08-10	1.70-09	2.08-10	8.14-13	6.19-17	1.12-21	1.10-10	5.19-11
8.71-11	6.80-10	1.95-09	1.34-10	1.65-13	1.27-17	1.66-24	8.05-11	2.09-11
1.86-10	1.10-09	7.92-10	7.36-11	1.36-13	9.64-16	4.10-25	7.25-11	2.83-11
1.66-10	2.55-10	3.39-10	1.45-11	2.53-12	3.81-15	2.50-21	2.24-11	6.76-12
2.12-10	7.90-11	2.13-11	6.50-11	6.58-15	1.81-16	1.87-30	1.77-11	5.92-12
4.64-11	9.32-11	7.20-11	8.93-11	4.21-13	1.27-15	8.85-30	8.11-11	5.05-11
7.78-10	9.43-10	1.20-09	3.01-10	1.09-12	2.00-15	3.03-21		
1.58-10	4.11-10	4.08-10	1.31-10	6.57-13	8.65-16	2.81-21	1.88-10	2.67-11

PHI 135 TO 180 DEGREES

7.11-10	1.10-09	2.15-09	6.98-11	2.72-14	1.29-18	2.85-27	4.72-10	2.99-10
6.07-10	3.46-10	4.66-10	1.53-10	3.65-13	3.67-18	1.37-28	7.87-10	6.54-10
2.90-10	1.54-09	5.11-10	3.36-10	9.67-13	2.98-18	5.99-25	6.47-11	1.54-11
6.59-10	6.62-10	1.00-09	3.18-11	1.09-11	6.19-19	1.91-21	7.57-11	1.78-11
3.41-10	1.66-10	2.59-10	5.21-11	6.57-12	5.87-17	2.39-31	7.75-11	4.04-11
1.75-10	6.14-11	1.82-09	1.33-10	1.54-12	7.88-19	3.52-27	5.39-11	2.40-11
5.84-10	5.01-10	4.45-10	6.27-12	6.89-13	2.19-17	7.38-24	4.97-11	1.84-11
5.66-11	1.24-10	5.81-11	2.51-10	1.34-13	1.75-16	2.87-29	3.48-11	1.63-11
1.73-10	1.56-10	1.54-10	9.64-11	2.43-12	8.74-16	3.11-23	1.74-11	5.65-12
9.03-11	1.68-11	4.21-11	2.74-13	2.23-14	7.41-18	1.28-24	7.55-12	2.96-12
7.71-10	1.02-09	1.22-09	2.48-10	5.97-12	2.18-16	6.33-22		
1.92-10	2.86-10	4.69-10	1.55-10	3.87-12	1.18-16	6.27-22	2.59-10	1.16-10
							3.55-09	2.83-10

AIR SCATTERING 3.34 02 ENERGY 1.00 ANGLE 1.80 02 DIST. 1.22 03
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.	4.58-07	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.	2.76-08	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.	0.	1.80-11	3.06-07	1.28-09	2.35-09
4.00 01	0.	0.	0.	0.	9.61-11	2.44-09	2.51-10	7.40-10
6.00 01	0.	0.	0.	0.	0.	3.10-10	6.17-10	8.78-10
8.00 01	0.	0.	0.	0.	0.	1.28-11	9.35-10	5.60-10
9.00 01	0.	0.	0.	0.	0.	0.	1.19-09	5.71-10
1.00 02	0.	0.	0.	0.	0.	0.	8.62-11	1.05-09
1.20 02	0.	0.	0.	0.	0.	0.	1.20-10	3.20-10
1.40 02	0.	0.	0.	0.	0.	0.	1.12-10	4.20-10
1.60 02	0.	0.	0.	0.	0.	0.	3.00-11	2.27-09
1.80 02	0.	0.	0.	0.	0.	0.	0.	8.65-10
	0.	0.	0.	0.	1.78-11	1.90-08	8.86-10	1.63-09
	0.	0.	0.	0.	1.67-11	1.07-09	1.92-10	3.12-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	4.54-12	1.14-08	1.52-09	4.72-09
4.00 01	0.	0.	0.	0.	4.82-12	1.16-09	5.73-10	3.63-10
6.00 01	0.	0.	0.	0.	0.	3.39-09	7.05-10	2.89-10
8.00 01	0.	0.	0.	0.	3.76-11	2.52-11	2.65-09	8.92-10
9.00 01	0.	0.	0.	0.	0.	2.89-14	4.37-10	1.51-09
1.00 02	0.	0.	0.	0.	0.	2.20-14	6.47-10	1.38-09
1.20 02	0.	0.	0.	0.	0.	0.	4.65-10	5.71-10
1.40 02	0.	0.	0.	0.	0.	0.	1.69-09	2.75-10
1.60 02	0.	0.	0.	0.	0.	1.59-11	1.65-10	2.13-10
1.80 02	0.	0.	0.	0.	0.	0.	1.00-11	1.36-09
	0.	0.	0.	0.	1.34-11	1.80-09	2.06-09	1.80-09
	0.	0.	0.	0.	1.23-11	6.12-10	6.19-10	3.27-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	1.53-11	1.85-08	7.21-10	5.95-10
4.00 01	0.	0.	0.	0.	4.92-12	2.31-09	8.47-10	4.43-10
6.00 01	0.	0.	0.	0.	1.81-12	7.56-10	2.59-09	8.74-10
8.00 01	0.	0.	0.	0.	0.	1.83-11	1.15-09	1.09-09
9.00 01	0.	0.	0.	0.	1.93-10	1.60-12	3.96-10	1.62-09
1.00 02	0.	0.	0.	0.	0.	5.55-13	1.92-09	1.71-10
1.20 02	0.	0.	0.	0.	0.	2.46-12	4.95-10	7.04-10
1.40 02	0.	0.	0.	0.	0.	0.	4.26-11	4.70-10
1.60 02	0.	0.	0.	0.	0.	0.	3.91-10	2.99-10
1.80 02	0.	0.	0.	0.	0.	0.	1.48-12	9.40-11
	0.	0.	0.	0.	3.58-11	1.73-09	1.90-09	1.43-09
	0.	0.	0.	0.	3.35-11	3.20-10	5.17-10	3.22-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	2.09-11	1.24-08	1.45-09	6.81-10
4.00 01	0.	0.	0.	0.	4.40-11	3.19-09	4.54-10	1.35-09
6.00 01	0.	0.	0.	0.	1.09-11	1.44-10	2.78-09	3.84-10
8.00 01	0.	0.	0.	0.	8.46-13	1.52-10	9.62-10	1.13-09
9.00 01	0.	0.	0.	0.	1.19-13	6.09-12	4.59-10	7.93-10
1.00 02	0.	0.	0.	0.	0.	9.90-11	7.37-10	2.68-10
1.20 02	0.	0.	0.	0.	0.	0.	2.43-10	1.81-09
1.40 02	0.	0.	0.	0.	0.	0.	2.48-11	2.80-10
1.60 02	0.	0.	0.	0.	0.	1.94-11	0.	3.77-09
1.80 02	0.	0.	0.	0.	0.	0.	2.82-12	6.19-10
	0.	0.	0.	0.	1.20-11	1.41-09	1.51-09	2.29-09
	0.	0.	0.	0.	7.10-12	2.49-10	3.67-10	8.73-10

352126221455 127312446655

AIR SCATTERING 3.34 02 ENERGY 1.00 ANGLE 1.80 02 DIST. 1.22 03
5.40 01 1.74 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.	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

8.60-02	6.10-02	4.60-02	3.40-02	2.50-02	1.90-02	1.40-02		
1.62-09	4.70-09	1.75-10	4.19-11	5.42-13	3.85-18	3.38-27	1.55-08	8.81-10
1.11-09	6.07-10	2.71-10	5.38-11	1.20-12	5.82-17	5.71-27	2.07-10	4.08-11
1.07-09	6.44-10	5.20-10	3.61-11	2.98-12	6.35-16	2.91-27	1.13-10	2.40-11
2.65-10	1.36-09	1.43-10	5.79-11	5.59-13	3.67-16	1.26-26	8.64-11	2.12-11
8.41-10	5.00-10	2.53-10	6.71-11	9.45-13	1.08-16	1.51-25	9.92-11	3.71-11
5.85-10	2.11-10	9.08-10	7.42-11	9.51-13	2.14-17	3.93-26	6.86-11	2.97-11
4.21-10	2.40-09	4.72-09	4.25-11	1.42-12	3.82-18	4.29-25	1.19-10	8.12-11
3.66-10	5.52-11	2.82-11	1.13-11	1.20-12	5.59-16	3.77-24	2.92-11	8.67-12
8.07-11	3.42-10	6.53-11	2.19-11	3.51-13	1.49-15	4.50-27	8.65-11	3.64-11
5.69-11	1.46-10	5.03-10	1.14-12	1.28-14	3.47-16	4.07-33	3.91-11	1.71-11
1.16-09	2.00-09	2.03-09	8.57-11	2.39-12	7.50-16	1.18-24		
2.69-10	8.29-10	1.32-09	2.48-11	8.05-13	3.39-16	1.15-24	1.13-09	6.47-11

PHI 45 TO 90 DEGREES

1.21-09	1.62-09	1.78-10	1.30-11	1.09-12	1.98-17	1.18-25	8.48-10	1.57-10
5.09-10	6.40-10	2.72-10	2.83-09	4.40-10	6.50-14	1.65-24	1.47-10	3.37-11
2.82-10	1.31-09	7.62-09	3.89-09	1.84-12	1.31-16	1.94-28	3.60-10	1.41-10
7.24-10	7.91-10	1.84-10	3.44-11	7.53-12	1.50-13	8.39-27	1.74-10	6.59-11
1.36-09	4.13-10	1.00-10	1.29-11	8.59-14	2.13-14	1.17-28	1.10-10	4.12-11
7.14-10	2.77-10	3.85-10	1.28-09	1.67-13	6.68-14	5.16-23	1.11-10	4.01-11
8.19-10	1.30-10	7.22-10	5.69-11	1.17-12	2.72-18	4.02-25	6.96-11	2.28-11
4.87-10	2.28-10	2.61-10	2.81-11	1.85-11	3.13-17	7.28-24	9.59-11	4.62-11
6.00-10	2.00-10	2.28-10	9.80-10	4.59-13	1.36-16	2.94-25	4.42-11	1.49-11
8.01-10	3.88-11	1.87-10	5.34-12	5.99-15	1.78-20	9.52-33	6.96-11	4.71-11
1.38-09	1.08-09	2.58-09	1.96-09	8.49-11	7.56-14	1.14-23		
3.07-10	2.26-10	1.79-09	1.70-09	8.06-11	5.59-14	9.19-24	3.28-10	5.07-11

PHI 90 TO 135 DEGREES

7.25-10	8.54-10	1.92-10	1.32-10	6.52-13	6.01-18	1.17-24	1.01-09	2.29-10
8.76-10	9.91-10	7.16-10	1.06-09	3.86-12	1.42-15	3.15-28	2.20-10	4.38-11
7.52-10	1.04-09	7.02-10	3.57-11	2.16-13	9.16-16	6.06-28	2.15-10	6.39-11
1.01-09	1.75-09	2.51-10	1.35-10	1.72-13	9.86-16	2.01-23	1.40-10	3.00-11
1.94-09	1.81-10	1.37-10	6.27-11	1.01-12	1.78-16	1.72-23	1.42-10	4.91-11
6.59-10	1.38-10	2.72-10	3.31-11	3.79-10	1.23-15	2.85-27	1.07-10	6.39-11
2.85-10	5.94-10	2.54-10	3.39-11	3.44-11	3.28-16	4.12-25	6.35-11	2.49-11
7.40-11	6.17-10	2.38-10	1.48-11	4.16-13	1.21-15	1.70-27	3.18-11	1.01-11
1.98-09	2.93-11	3.00-10	3.50-11	2.63-13	3.52-16	1.72-26	7.92-11	4.21-11
8.98-11	2.57-11	2.46-11	1.78-11	7.94-14	1.14-14	1.88-27	6.34-12	3.44-12
1.63-09	1.49-09	6.75-10	2.84-10	7.83-11	2.23-15	9.76-24		
4.00-10	4.55-10	1.35-10	1.46-10	7.69-11	9.04-16	6.63-24	2.88-10	3.37-11

PHI 135 TO 180 DEGREES

1.11-09	1.73-09	7.58-10	4.52-11	6.59-13	5.02-18	5.80-25	7.66-10	1.73-10
8.84-10	9.84-10	1.21-09	1.41-10	2.31-13	9.31-15	1.88-25	2.80-10	4.64-11
3.70-10	4.45-10	2.38-10	5.35-10	2.25-12	5.83-17	8.73-27	1.56-10	5.19-11
3.58-10	5.63-10	6.85-09	6.41-11	2.18-12	7.79-17	8.26-27	1.82-10	8.32-11
1.83-10	5.72-10	1.63-10	2.24-11	1.03-12	8.65-17	3.31-28	6.10-11	2.41-11
2.94-10	1.72-10	2.03-10	1.21-10	6.30-14	6.17-16	1.49-27	5.20-11	2.37-11
6.05-10	1.14-09	3.41-10	6.38-11	5.77-12	1.02-17	1.38-27	1.08-10	5.52-11
5.06-10	1.72-10	1.68-10	1.17-10	1.72-13	1.88-15	5.57-28	2.88-11	1.19-11
1.19-10	1.91-10	1.56-10	6.59-11	2.11-12	9.52-19	8.54-31	1.37-10	1.03-10
4.48-11	1.14-10	7.02-11	5.50-11	3.24-16	2.22-14	5.91-35	2.53-11	1.68-11
8.70-10	1.10-09	2.81-09	2.82-10	3.88-12	3.62-15	7.36-26		
1.78-10	2.80-10	2.15-09	1.52-10	1.53-12	2.13-15	4.30-26	2.84-10	4.70-11
							3.18-09	2.04-10

AIR SCATTERING 3.35 02 ENERGY 6.00-01 ANGLE 1.00 DIST. 1.22 03
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	4.31-05	0.	0.	0.	0.	0.	0.	0.
4.00 01	1.03-05	0.	0.	0.	0.	0.	0.	0.
6.00 01	1.96-06	3.07-06	0.	0.	0.	0.	0.	0.
8.00 01	0.	2.40-06	2.14-06	0.	0.	0.	0.	0.
9.00 01	0.	0.	0.	0.	0.	0.	0.	0.
1.00 02	0.	0.	3.48-06	0.	0.	0.	0.	0.
1.20 02	0.	0.	0.	3.08-06	0.	0.	0.	0.
1.40 02	0.	0.	0.	5.20-06	0.	0.	0.	0.
1.60 02	0.	0.	0.	0.	9.04-06	0.	0.	0.
1.80 02	0.	0.	0.	0.	2.07-05	0.	0.	0.
	4.92-06	1.60-06	1.30-06	2.39-06	2.82-06	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	2.75-05	0.	6.72-08	2.09-08	0.	0.	1.58-08	1.17-09
4.00 01	6.57-06	0.	0.	0.	0.	1.06-08	2.79-09	1.14-09
6.00 01	1.25-06	1.95-06	0.	0.	0.	3.52-10	6.34-09	2.76-09
8.00 01	0.	1.53-06	1.36-06	0.	0.	1.21-09	1.57-09	9.93-10
9.00 01	0.	0.	0.	1.18-08	1.20-08	1.68-09	6.86-10	1.61-09
1.00 02	0.	0.	2.22-06	0.	1.12-10	7.56-10	5.89-10	5.74-09
1.20 02	0.	0.	0.	1.96-06	8.75-11	1.75-08	4.73-10	6.38-09
1.40 02	0.	0.	0.	3.31-06	1.20-09	1.11-08	9.25-10	1.86-09
1.60 02	0.	0.	0.	1.06-12	5.78-06	3.93-10	8.03-10	8.94-10
1.80 02	0.	0.	0.	1.01-10	1.32-05	9.48-09	1.45-09	2.15-09
	3.13-06	1.02-06	8.34-07	1.52-06	1.80-06	1.21-08	4.49-09	5.47-09
	6.85-07	7.19-07	5.88-07	8.96-07	4.63-07	4.52-09	1.30-09	2.18-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	8.64-09	6.58-11	1.70-08	2.23-10
4.00 01	0.	0.	0.	0.	0.	6.52-09	2.19-08	2.24-10
6.00 01	0.	0.	0.	0.	0.	5.70-10	3.08-09	3.20-10
8.00 01	0.	0.	0.	0.	0.	1.76-09	1.02-08	2.87-09
9.00 01	0.	0.	0.	0.	3.02-10	3.12-09	1.78-09	2.33-09
1.00 02	0.	0.	0.	0.	0.	4.43-09	2.46-09	1.66-09
1.20 02	0.	0.	0.	0.	1.21-10	5.15-09	1.74- 9	6.71-08
1.40 02	0.	0.	0.	1.96-12	4.44-08	1.18-07	6.74-10	1.27-09
1.60 02	0.	0.	0.	2.13-11	2.36-08	4.38-09	1.89-09	2.04-09
1.80 02	0.	0.	1.59-12	6.69-10	2.88-08	2.79-09	6.07-10	3.85-09
	0.	0.	9.59-14	4.46-11	1.83-08	3.71-08	1.08-08	2.46-08
	0.	0.	9.58-14	2.89-11	1.13-08	3.08-08	3.43-09	2.01-08

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	7.30-09	0.	0.	1.07-10	7.92-08	6.17-10
4.00 01	0.	0.	0.	6.85-08	0.	2.22-09	1.78-09	6.23-09
6.00 01	0.	0.	0.	0.	0.	1.54-09	7.77-09	3.95-10
8.00 01	0.	0.	0.	1.59-08	2.16-09	4.92-11	1.66-09	1.25-09
9.00 01	0.	0.	0.	0.	0.	2.31-09	1.94-10	4.60-10
1.00 02	0.	0.	0.	0.	7.91-09	2.59-09	5.07-10	1.16-10
1.20 02	0.	0.	3.54-11	0.	7.72-09	1.35-09	1.43-09	8.12-10
1.40 02	0.	0.	6.51-10	0.	5.02-10	1.81-09	1.15-09	2.32-09
1.60 02	0.	0.	1.44-12	4.14-12	2.12-08	9.80-10	9.32-10	1.68-09
1.80 02	0.	0.	1.51-10	2.88-12	1.85-07	5.41-10	1.43-09	1.87-09
	0.	0.	6.34-10	1.71-08	1.95-08	2.80-09	8.84-09	3.02-09
	0.	0.	4.73-10	1.24-08	8.87-09	6.12-10	3.01-09	7.92-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	2.71-09	4.65-08	1.88-08	1.40-10
4.00 01	0.	0.	6.06-09	0.	0.	2.10-09	4.75-09	3.07-09
6.00 01	0.	0.	0.	0.	4.31-10	4.26-10	2.93-09	1.11-09
8.00 01	0.	0.	0.	0.	6.77-10	3.08-09	7.17-09	3.77-09
9.00 01	0.	0.	0.	0.	1.64-09	8.23-09	2.35-09	1.01-10
1.00 02	0.	0.	0.	0.	0.	4.89-08	2.10-09	3.66-10
1.20 02	0.	0.	0.	1.04-14	1.32-09	1.35-09	1.12-09	9.13-10
1.40 02	0.	0.	0.	9.49-12	5.07-10	2.39-09	1.36-09	2.11-09
1.60 02	0.	0.	0.	2.30-10	4.44-09	5.41-09	3.25-09	7.47-10
1.80 02	0.	0.	2.12-12	3.10-11	2.12-08	2.92-08	2.19-09	8.32-10
	0.	0.	1.05-09	4.44-11	3.40-09	1.80-08	7.28-09	3.19-09
	0.	0.	1.05-09	2.47-11	9.41-10	9.06-09	1.58-09	1.08-09

12731244665 5 034026010575

AIR SCATTERING 3.35 02 ENERGY 6.00-01 ANGLE 1.00 DIST. 1.22 03
5.00 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.	6.47-06
0.	0.	0.	0.	0.	0.	0.	1.55-06
0.	0.	0.	0.	0.	0.	0.	6.01-07
0.	0.	0.	0.	0.	0.	0.	4.54-07
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	3.48-07
0.	0.	0.	0.	0.	0.	0.	1.54-07
0.	0.	0.	0.	0.	0.	0.	2.60-07
0.	0.	0.	0.	0.	0.	0.	4.52-07
0.	0.	0.	0.	0.	0.	0.	1.03-06
0.	0.	0.	0.	0.	0.	0.	1.29-06

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		
5.71-10	1.02-10	1.48-10	8.10-13	9.42-13	1.05-19	9.10-24	4.13-06	7.48-07
3.94-10	1.87-11	4.02-10	5.01-12	2.37-12	1.14-18	4.92-24	9.86-07	4.50-07
1.48-10	1.77-10	1.67-09	1.79-11	2.50-14	2.05-16	1.53-25	3.83-07	2.70-07
2.58-09	1.26-09	1.72-10	3.76-11	1.11-11	8.64-15	1.75-21	2.89-07	2.05-07
4.64-10	1.97-10	3.21-10	1.43-11	7.25-11	1.99-15	3.83-28	1.31-09	7.69-10
6.44-10	2.31-09	1.57-10	1.10-12	3.26-13	5.48-16	7.87-29	2.22-07	2.22-07
3.21-09	1.11-10	1.34-10	3.74-11	6.73-13	1.62-16	1.21-24	9.87-08	9.79-08
3.12-09	2.60-10	1.97-10	3.64-11	5.72-14	9.29-18	8.21-27	1.66-07	1.18-07
7.41-10	6.09-10	9.86-11	1.78-11	3.69-13	3.38-18	3.83-29	2.89-07	1.27-07
5.27-10	1.23-10	2.98-10	7.85-12	4.46-13	3.56-14	2.89-23	6.62-07	1.24-07
3.21-09	1.12-09	7.92-10	4.61-11	1.71-11	5.52-15	5.74-22		
1.23-09	4.39-10	4.34-10	1.47-11	1.61-11	3.54-15	5.70-22	8.22-07	1.47-07

PHI 45 TO 90 DEGREES

1.43-10	2.99-10	5.08-11	8.71-11	1.04-13	1.91-16	1.99-28	9.55-10	6.44-10
1.05-09	4.62-10	2.81-10	3.29-10	1.01-14	1.93-15	1.04-21	8.85-10	4.52-10
6.34-10	5.59-10	3.55-10	4.68-12	2.23-14	6.42-18	1.01-25	1.36-10	3.92-11
7.10-10	2.22-10	5.08-11	1.25-10	1.38-13	8.51-17	1.17-25	4.34-10	2.05-10
7.14-10	1.88-10	2.35-10	8.38-11	1.50-13	6.01-16	1.59-27	2.28-10	6.50-11
3.19-10	2.34-10	1.05-10	1.41-11	1.90-13	3.54-17	1.10-25	2.50-10	1.18-10
3.25-09	4.53-10	2.40-10	4.10-11	6.43-13	5.06-17	6.47-27	1.63-09	1.24-09
5.69-10	2.98-09	6.80-10	2.18-10	2.45-13	1.32-17	5.73-27	5.84-09	4.04-09
3.43-10	2.48-09	2.95-10	3.31-11	1.46-12	7.63-18	1.01-25	1.45-09	6.77-10
1.29-09	1.58-09	2.82-10	2.63-11	3.64-13	4.88-18	2.72-24	1.70-09	5.36-10
2.12-09	1.81-09	5.42-10	2.00-10	6.68-13	5.01-16	1.81-22		
8.05-10	4.77-10	1.10-10	1.02-10	2.55-13	3.62-16	1.80-22	2.91-09	1.16-09

PHI 90 TO 135 DEGREES

1.14-10	7.01-11	2.55-10	3.85-12	3.41-15	2.21-18	1.08-34	3.13-09	1.48-09
4.22-10	4.05-10	2.51-10	2.61-11	2.56-13	3.92-17	3.09-28	3.68-09	3.34-09
2.20-10	2.28-10	2.58-10	1.86-12	8.72-15	2.14-16	5.37-25	2.96-10	1.71-10
6.85-10	6.12-10	1.61-10	8.80-12	2.00-12	7.03-18	2.56-23	1.00-09	6.73-10
2.56-09	1.59-10	7.55-11	5.22-11	2.94-14	5.11-18	1.77-26	1.38-10	5.63-11
7.04-10	1.73-10	7.81-11	4.84-12	1.22-13	2.03-17	2.65-27	5.07-10	2.55-10
7.78-10	6.12-10	1.25-10	1.40-11	3.85-13	7.88-17	1.15-21	5.12-10	3.75-10
6.14-10	4.28-10	3.10-10	2.47-10	3.58-14	3.20-17	1.92-27	2.67-10	8.84-11
2.84-09	4.44-10	2.32-10	1.12-10	7.83-14	8.17-18	1.66-25	1.22-09	7.33-10
7.16-10	1.92-09	2.39-10	1.01-10	3.59-12	3.55-18	7.56-30	9.38-09	6.69-09
1.88-09	8.99-10	3.85-10	1.18-10	1.09-12	1.06-16	3.82-22		
4.80-10	1.71-10	7.55-11	5.76-11	6.52-13	6.37-17	3.82-22	2.36-09	7.68-10

PHI 135 TO 180 DEGREES

2.13-10	3.59-11	1.96-11	4.94-12	1.88-14	9.95-19	2.15-32	2.10-09	1.43-09
1.53-10	9.48-10	2.86-10	3.02-11	3.17-15	1.09-17	2.78-24	8.88-10	6.15-10
3.50-10	6.03-10	4.86-11	2.11-12	2.90-14	1.38-17	9.80-30	1.58-10	5.05-11
1.55-09	3.76-10	6.34-11	8.87-11	2.77-13	2.34-20	5.20-24	4.53-10	1.48-10
4.69-10	9.04-11	7.14-11	1.43-09	4.61-14	3.08-17	7.55-28	4.23-10	1.78-10
2.53-10	2.21-10	1.99-10	1.54-11	3.35-12	1.53-14	4.60-23	1.55-09	1.44-09
3.36-09	6.73-10	2.02-09	3.61-11	2.85-12	3.27-17	1.20-26	2.53-10	6.97-11
2.24-09	6.91-10	1.15-09	9.55-11	7.69-13	1.31-18	1.41-25	2.45-10	5.73-11
4.74-10	5.16-10	1.12-09	2.09-11	9.23-14	5.11-18	1.10-24	5.34-10	1.58-10
7.08-10	3.49-10	4.74-10	3.55-12	1.17-11	6.50-18	2.46-29	2.04-09	1.04-09
2.58-09	1.02-09	1.32-09	3.25-10	2.54-12	2.68-15	1.04-23		
9.89-10	2.88-10	6.44-10	2.73-10	1.23-12	2.57-15	8.15-24	1.18-09	3.06-10
							1.30-06	2.30-07

AIR SCATTERING 3.36 02 ENERGY 6.00-01 ANGLE 1.50 01 DIST. 1.22 03
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	2.36-06	0.	0.	0.	0.	0.	0.	0.
4.00 01	2.73-07	3.44-07	0.	0.	0.	0.	0.	0.
6.00 01	0.	1.81-07	9.68-08	0.	0.	0.	0.	0.
8.00 01	0.	0.	1.58-07	0.	0.	0.	0.	0.
9.00 01	0.	0.	7.33-08	1.11-07	0.	0.	0.	0.
1.00 02	0.	0.	0.	2.52-07	0.	0.	0.	0.
1.20 02	0.	0.	0.	2.56-07	7.46-09	0.	0.	0.
1.40 02	0.	0.	0.	0.	3.03-07	0.	0.	0.
1.60 02	0.	0.	0.	0.	3.80-07	0.	0.	0.
1.80 02	0.	0.	0.	0.	6.45-08	0.	0.	0.
	1.90-07	1.08-07	9.02-08	1.47-07	1.53-07	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	1.57-06	2.17-08	0.	1.25-08	0.	0.	7.02-09	2.31-11
4.00 01	1.74-07	2.19-07	0.	2.11-08	2.83-09	2.63-09	1.05-08	7.34-10
6.00 01	0.	1.15-07	6.16-08	0.	2.33-11	6.66-09	7.96-09	3.28-10
8.00 01	0.	0.	1.01-07	0.	1.48-12	3.73-09	7.00-09	8.11-10
9.00 01	0.	0.	4.67-08	7.06-08	2.19-09	5.12-09	8.03-10	3.79-09
1.00 02	0.	0.	0.	1.60-07	4.94-10	2.19-08	1.02-09	5.46-09
1.20 02	0.	0.	0.	1.63-07	7.52-09	4.13-09	1.31-09	4.73-09
1.40 02	0.	0.	0.	2.93-08	2.07-07	4.62-09	1.74-09	1.13-09
1.60 02	0.	0.	1.96-12	9.90-11	2.92-07	1.84-09	2.23-09	5.67-09
1.80 02	0.	0.	2.06-14	1.13-10	7.64-08	1.66-09	1.13-09	1.73-09
	1.25-07	7.00-08	5.74-08	1.06-07	1.14-07	1.11-08	8.31-09	5.02-09
	1.10-08	1.23-08	1.03-08	1.70-08	8.98-09	2.35-09	2.66-09	1.25-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	4.75-09	3.13-09	1.88-09
4.00 01	0.	0.	1.84-09	0.	0.	2.07-09	3.94-09	1.05-09
6.00 01	0.	0.	0.	0.	3.08-13	7.06-09	3.52-09	8.58-10
8.00 01	0.	0.	2.51-08	0.	0.	7.90-09	3.59-09	1.61-09
9.00 01	0.	0.	0.	0.	4.77-09	2.34-09	3.21-09	4.26-10
1.00 02	0.	0.	0.	0.	1.00-09	7.43-10	7.18-10	8.48-10
1.20 02	0.	0.	0.	0.	9.97-10	2.85-09	5.63-09	3.06-10
1.40 02	0.	0.	0.	0.	5.58-10	3.05-09	2.55-09	1.32-09
1.60 02	0.	0.	3.30-12	2.17-10	5.37-09	3.87-09	1.61-09	2.50-09
1.80 02	0.	0.	9.12-11	1.33-11	5.08-09	9.74-10	1.09-09	3.59-09
	0.	0.	8.50-09	3.85-11	2.72-09	8.11-09	6.53-09	2.37-09
	0.	0.	8.18-09	2.84-11	7.14-10	2.10-09	1.84-09	4.80-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	9.01-11	1.75-09	8.30-10
4.00 01	0.	0.	0.	0.	0.	0.	3.85-09	4.11-10
6.00 01	0.	0.	0.	0.	1.17-12	1.20-11	4.74-09	8.25-10
8.00 01	0.	0.	0.	0.	5.43-11	1.30-09	3.03-09	1.69-10
9.00 01	0.	0.	0.	0.	1.41-09	1.30-09	1.66-09	9.16-10
1.00 02	0.	0.	0.	0.	0.	2.62-10	1.11-09	4.21-10
1.20 02	0.	0.	0.	0.	1.66-09	1.18-09	2.82-10	7.59-10
1.40 02	0.	0.	0.	8.60-11	5.31-10	2.92-09	3.45-10	7.78-10
1.60 02	0.	0.	0.	1.41-12	7.53-09	1.50-09	1.22-09	1.49-09
1.80 02	0.	0.	0.	2.11-12	4.27-09	9.64-10	1.23-09	9.42-10
	0.	0.	0.	2.33-11	2.51-09	2.18-09	3.97-09	1.40-09
	0.	0.	0.	2.29-11	1.13-09	5.23-10	8.63-10	2.21-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	4.81-09	5.65-09	2.72-10
4.00 01	0.	0.	0.	9.82-09	0.	3.18-09	1.81-09	2.80-10
6.00 01	0.	0.	0.	0.	0.	7.23-10	1.34-09	1.18-09
8.00 01	0.	0.	0.	0.	0.	1.52-10	5.10-09	2.08-09
9.00 01	0.	0.	0.	0.	5.26-12	1.02-09	4.34-09	4.29-10
1.00 02	0.	0.	0.	0.	8.86-12	1.63-09	3.12-10	3.44-09
1.20 02	0.	0.	0.	2.11-12	4.23-10	9.04-10	9.89-10	1.52-09
1.40 02	0.	0.	0.	8.01-11	1.05-10	1.13-09	6.33-10	1.44-09
1.60 02	0.	0.	0.	1.36-12	2.11-09	1.22-09	9.86-10	6.34-09
1.80 02	0.	0.	0.	1.24-10	3.62-09	1.36-09	4.54-10	8.06-10
	0.	0.	0.	1.73-09	7.53-10	2.43-09	4.17-09	3.76-09
	0.	0.	0.	1.70-09	2.45-10	5.48-10	1.40-09	1.15-09

034026010575 204034204105

AIR SCATTERING 3.36 02 ENERGY 6.00-01 ANGLE 1.50 01 DIST. 1.22 03
5.20 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.	3.55-07
0.	0.	0.	0.	0.	0.	0.	7.54-08
0.	0.	0.	0.	0.	0.	0.	2.78-08
0.	0.	0.	0.	0.	0.	0.	1.58-08
0.	0	0.	0.	0.	0.	0.	1.29-08
0.	0.	0.	0.	0.	0.	0.	1.26-08
0.	0.	0.	0.	0.	0.	0.	1.32-08
0.	0.	0.	0.	0.	0.	0.	1.52-08
0.	0.	0.	0.	0.	0.	0.	1.90-08
0.	0.	0.	0.	0.	0.	0.	3.22-09
0.	0.	0.	0.	0.	0.	0.	6.33-08

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		
8.48-10	6.91-10	3.82-10	4.48-11	1.49-13	6.39-20	0.	2.39-07	2.28-08
4.25-10	6.65-10	5.58-11	1.21-10	2.65-13	9.65-19	1.13-28	4.96-08	7.79-09
2.91-10	2.06-09	6.89-10	6.34-11	6.79-13	1.02-18	1.80-26	1.82-08	3.76-09
1.95-09	1.94-10	5.58-10	3.09-10	6.74-13	3.91-16	2.18-23	1.05-08	2.37-09
5.70-10	7.93-10	1.83-10	5.47-11	1.11-13	2.74-15	2.03-22	8.58-09	2.73-09
3.60-10	1.44-09	6.06-10	2.02-11	8.30-14	1.30-16	4.66-22	8.86-09	2.55-09
1.06-09	1.54-09	4.51-10	1.08-11	6.20-13	1.83-15	1.09-27	8.83-09	1.64-09
1.74-09	9.88-10	1.51-09	8.39-12	4.00-13	3.37-16	3.42-23	1.21-08	2.05-09
1.07-09	3.78-10	2.36-10	3.13-11	4.41-12	2.63-16	8.79-24	1.49-08	1.20-09
1.98-09	5.91-10	1.18-10	2.75-12	7.53-12	1.36-16	6.35-29	3.99-09	7.62-10
2.11-09	2.02-09	1.13-09	1.68-10	2.02-12	1.36-15	1.34-22		
6.09-10	5.79-10	4.35-10	9.88-11	9.34-13	1.02-15	1.17-22	4.32-08	2.41-09

PHI 45 TO 90 DEGREES

4.22-10	8.32-11	2.48-10	1.15-10	2.93-12	4.46-19	8.38-26	2.86-10	1.58-10
1.56-09	1.18-09	1.16-10	9.64-11	3.80-13	3.43-18	6.33-27	4.31-10	1.98-10
4.20-10	6.60-10	4.74-10	6.44-11	1.67-13	5.70-15	1.34-23	3.55-10	1.73-10
1.03-09	7.16-10	6.97-11	1.82-11	4.01-14	2.28-17	1.17-22	2.91-09	2.51-09
1.16-09	1.13-10	6.97-11	1.32-11	5.46-14	1.32-17	8.27-25	4.39-10	1.63-10
4.25-09	3.31-10	4.10-10	1.50-10	6.93-12	3.94-18	3.73-27	2.05-10	8.36-11
2.16-09	9.11-10	3.28-10	1.74-11	1.34-11	1.13-16	5.43-26	3.66-10	1.50-10
9.89-09	7.93-10	1.36-10	1.17-10	3.02-13	6.45-17	1.41-27	4.30-10	1.66-10
9.34-10	6.26-10	9.07-11	3.41-11	7.43-13	4.25-17	1.35-24	5.21-10	1.25-10
2.92-10	8.07-11	3.59-11	8.42-12	1.08-13	1.77-17	6.37-25	4.04-10	1.32-10
5.20-09	1.32-09	4.28-10	1.18-10	6.09-12	1.59-15	4.20-23		
2.20-09	3.09-10	1.06-10	4.32-11	4.03-12	1.18-15	4.14-23	1.60-09	8.24-10

PHI 90 TO 135 DEGREES

4.51-09	2.48-10	3.34-10	2.92-11	1.09-14	8.08-18	9.59-29	1.68-10	9.52-11
3.14-10	7.12-10	2.70-10	8.29-11	2.16-13	1.64-17	8.83-26	1.40-10	4.58-11
3.49-10	2.76-10	5.65-10	2.28-11	6.40-14	2.24-16	1.68-26	1.75-10	7.85-11
5.75-10	5.82-10	3.75-10	1.27-11	4.70-14	6.42-19	1.38-25	1.57-10	4.33-11
1.38-09	4.26-10	9.04-11	7.07-12	3.80-13	2.15-16	2.74-23	2.11-10	7.58-11
1.03-09	2.06-10	9.31-11	6.08-10	5.67-14	6.06-19	6.57-23	7.73-11	2.16-11
4.68-10	4.71-10	1.75-10	1.51-11	3.83-13	3.93-15	1.43-24	1.58-10	5.93-11
1.53-09	6.40-10	2.52-10	9.90-11	4.67-13	6.83-14	5.26-23	1.84-10	4.52-11
1.49-09	1.86-10	4.97-10	1.08-10	5.26-14	1.29-16	3.57-25	5.25-10	2.75-10
2.62-10	1.16-10	1.02-10	2.63-11	1.52-13	4.81-20	0.	3.06-10	1.48-10
1.86-09	8.75-10	5.88-10	1.85-10	4.14-13	1.96-14	3.08-23		
3.94-10	2.01-10	1.56-10	1.05-10	1.70-13	1.93-14	2.13-23	3.92-10	6.76-11

PHI 135 TO 180 DEGREES

2.30-10	3.63-10	1.46-09	2.09-11	1.18-13	1.80-17	4.24-25	3.42-10	1.81-10
4.25-10	1.22-10	1.18-10	1.09-11	1.55-12	1.42-17	3.91-29	6.57-10	4.95-10
7.90-10	5.00-10	1.99-10	1.59-11	2.37-11	3.69-13	4.09-24	1.08-10	2.62-11
1.12-09	3.28-10	1.58-09	2.12-10	2.83-12	3.64-19	5.08-25	2.42-10	1.22-10
1.79-09	1.54-10	2.91-10	3.86-11	1.36-14	4.81-18	5.79-27	2.10-10	8.13-11
5.90-10	2.50-10	1.80-10	1.06-11	1.42-14	1.61-18	2.63-27	1.44-10	5.99-11
4.80-10	8.82-10	1.02-10	3.21-10	1.27-13	3.98-14	8.06-22	1.30-10	2.63-11
5.75-10	4.64-10	1.40-10	9.19-12	1.83-12	9.86-17	3.76-25	1.09-10	1.91-11
2.03-09	1.10-10	1.11-09	2.82-10	8.23-12	2.07-17	2.59-24	3.53-10	1.23-10
1.08-10	1.04-10	5.57-11	6.05-11	6.77-14	2.22-22	1.10-27	2.62-10	1.17-10
1.75-09	7.90-10	1.03-09	2.45-10	9.45-12	1.11-13	2.65-22		
3.88-10	2.72-10	4.00-10	1.02-10	5.90-12	1.11-13	2.63-22	4.53-10	1.04-10
							7.17-08	4.14-09

AIR SCATTERING 3.37 02 ENERGY 6.00-01 ANGLE 3.00 01 DIST. 1.22 03
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	6.47-07	2.82-07	0.	0.	0.	0.	0.	0.
4.00 01	0.	2.21-07	2.92-08	0.	0.	0.	0.	0.
6.00 01	0.	0.	1.08-07	0.	0.	0.	0.	0.
8.00 01	0.	0.	3.90-08	6.20-08	0.	0.	0.	0.
9.00 01	0.	0.	0.	1.18-07	0.	0.	0.	0.
1.00 02	0.	0.	0.	1.19-07	0.	0.	0.	0.
1.20 02	0.	0.	0.	2.88-08	9.06-08	0.	0.	0.
1.40 02	0.	0.	0.	0.	1.15-07	0.	0.	0.
1.60 02	0.	0.	0.	0.	2.47-08	0.	0.	0.
1.80 02	0.	0.	0.	0.	0.	0.	0.	0.
	3.90-08	5.54-08	4.64-08	7.08-08	6.45-08	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	4.12-07	1.80-07	0.	0.	3.62-09	0.	1.31-09	1.59-10
4.00 01	0.	1.41-07	1.86-08	0.	0.	1.84-09	4.91-09	1.09-09
6.00 01	0.	0.	6.84-08	4.99-09	1.80-09	1.29-08	3.02-09	7.38-10
8.00 01	0.	0.	2.48-08	3.95-08	0.	7.42-09	1.74-09	6.14-10
9.00 01	0.	0.	5.49-09	7.52-08	1.20-09	1.46-09	2.02-10	6.83-09
1.00 02	0.	0.	0.	8.72-08	1.85-09	2.83-09	2.16-09	3.17-09
1.20 02	0.	0.	0.	1.83-08	8.57-08	3.28-09	9.74-10	1.59-09
1.40 02	0.	0.	0.	1.78-09	9.01-08	7.93-09	1.17-09	1.25-09
1.60 02	0.	0.	5.92-12	1.65-11	3.07-08	1.79-09	2.97-09	2.44-09
1.80 02	0.	0.	4.58-12	6.29-11	9.50-10	4.08-10	1.26-09	8.06-11
	2.48-08	3.53-08	3.05-08	4.89-08	5.86-08	1.04-08	3.93-09	3.61-09
	2.80-09	4.40-09	3.82-09	5.69-09	7.69-09	2.81-09	7.32-10	1.12-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	4.21-09	3.13-09
4.00 01	0.	0.	0.	0.	7.02-09	1.52-09	7.46-09	8.89-11
6.00 01	0.	0.	3.16-09	0.	0.	4.37-09	1.53-09	2.29-10
8.00 01	0.	0.	0.	1.18-08	6.65-09	1.88-09	2.40-09	6.83-10
9.00 01	0.	0.	0.	0.	3.51-09	1.61-09	5.45-10	5.34-09
1.00 02	0.	0.	0.	0.	1.83-10	1.47-09	5.32-10	2.09-09
1.20 02	0.	0.	0.	0.	2.21-09	1.57-09	1.23-09	1.60-09
1.40 02	0.	0.	0.	9.45-12	2.11-09	2.39-09	1.03-09	1.24-09
1.60 02	0.	0.	3.96-15	1.36-11	1.90-09	1.54-08	1.29-09	2.11-09
1.80 02	0.	0.	7.72-13	1.53-10	2.00-09	3.08-10	1.91-10	1.88-09
	0.	0.	8.41-10	3.87-09	5.76-09	6.42-09	3.84-09	3.11-09
	0.	0.	8.40-10	3.86-09	2.15-09	2.67-09	7.16-10	7.61-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	3.87-08	5.59-09	6.17 11
4.00 01	0.	0.	0.	0.	1.07-09	2.08-09	1.72-09	2.33-09
6.00 01	0.	0.	0.	0.	0.	1.18-10	1.62-09	1.05-09
8.00 01	0.	0.	0.	0.	0.	1.13-09	9.16-09	8.20-10
9.00 01	0.	0.	0.	0.	0.	1.62-09	1.06-09	7.43-10
1.00 02	0.	0.	0.	0.	1.82-11	3.41-09	8.79-10	3.64-09
1.20 02	0.	0.	0.	0.	2.18-10	3.47-09	5.60-10	3.49-10
1.40 02	0.	0.	0.	0.	4.04-10	3.46-09	8.59-10	4.80-10
1.60 02	0.	0.	0.	1.37-11	2.27-10	8.68-10	5.43-10	1.34-09
1.80 02	0.	0.	0.	0.	4.98-10	2.69-10	1.12-09	3.99-10
	0.	0.	0.	2.38-12	4.37-10	6.19-09	4.96-09	2.22-09
	0.	0.	0.	1.65-12	2.23-10	2.50-09	2.22-09	6.16-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	9.74-10	1.04-10
4.00 01	0.	0.	0.	0.	0.	0.	9.19-09	2.07-09
6.00 01	0.	0.	0.	0.	0.	2.19-09	7.03-10	2.06-09
8.00 01	0.	0.	0.	0.	2.19-09	1.07-14	4.09-09	1.12-09
9.00 01	0.	0.	0.	0.	0.	3.58-10	1.73-09	5.16-10
1.00 02	0.	0.	0.	0.	1.73-11	2.21-09	6.73-10	5.89-10
1.20 02	0.	0.	0.	6.79-12	7.42-10	4.95-10	4.88-10	4.67-09
1.40 02	0.	0.	0.	8.78-12	2.59-10	4.10-09	1.67-09	4.26-10
1.60 02	0.	0.	0.	0.	1.78-10	2.08-08	2.66-09	1.09-09
1.80 02	0.	0.	0.	0.	1.50-09	4.59-10	1.76-10	2.99-09
	0.	0.	0.	4.55-12	1.15-09	5.92-09	4.67-09	3.48-09
	0.	0.	0.	3.12-12	7.56-10	3.58-09	1.17-09	1.42-09

025504322761 370622667675

AIR SCATTERING 3.37 02 ENERGY 6.00-01 ANGLE 3.00 01 DIST. 1.22 03
5.80 01 1.72 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.	1.25-07
0.	0.	0.	0.	0.	0.	0.	2.50-08
0.	0.	0.	0.	0.	0.	0.	1.08-08
0.	0.	0.	0.	0.	0.	0.	6.99-09
0.	0.	0.	0.	0.	0.	0.	5.91-09
0.	0.	0.	0.	0.	0.	0.	5.95-09
0.	0.	0.	0.	0.	0.	0.	5.97-09
0.	0.	0.	0.	0.	0.	0.	5.75-09
0.	0.	0.	0.	0.	0.	0.	1.23-09
0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	
							2.28-08

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		
1.60-09	1.20-10	5.83-11	1.72-11	2.68-11	1.02-17	1.10-26	8.00-08	8.03-09
4.09-10	3.12-09	4.94-10	2.52-11	1.17-13	9.22-15	5.70-26	1.62-08	2.25-09
2.53-10	1.07-09	6.00-11	1.18-10	3.22-14	8.20-18	8.63-25	7.69-09	1.21-09
9.00-10	3.26-10	2.00-10	3.24-11	4.75-13	5.63-19	3.81-26	4.76-09	7.44-10
1.38-09	9.53-10	1.66-10	3.11-11	3.10-14	8.07-17	7.34-27	4.60-09	1.11-09
1.09-09	2.53-10	1.52-09	9.57-11	6.87-14	2.38-16	4.59-25	4.71-09	9.49-10
1.49-09	8.94-10	4.17-10	1.00-10	2.40-13	2.89-17	2.18-27	5.40-09	1.17-09
2.44-09	3.56-09	7.82-10	5.96-11	1.18-13	1.72-19	4.41-28	4.99-09	3.83-10
4.38-10	5.09-10	2.29-10	1.32-11	1.22-12	7.46-18	3.40-23	1.75-09	2.58-10
7.85-10	1.08-10	2.21-10	5.81-11	2.36-13	1.15-18	1.34-23	1.22-10	2.75-11
2.22-09	2.48-09	8.60-10	1.24-10	2.16-12	1.67-15	7.04-24		
5.53-10	1.25-09	2.58-10	4.37-11	1.62-12	1.60-15	5.95-24	1.63-08	8.35-10

PHI 45 TO 90 DEGREES

1.01-09	1.55-11	4.15-11	2.64-12	4.63-12	5.20-19	3.75-28	2.10-10	9.44-11
5.27-10	2.78-10	1.51-10	2.19-12	3.96-13	1.22-17	3.94-28	6.37-10	2.70-10
2.20-09	5.12-10	1.44-10	2.88-11	1.01-11	5.58-18	6.18-19	5.48-10	3.35-10
2.39-10	2.58-09	1.25-10	1.28-11	8.38-14	1.75-17	1.28-28	1.10-09	6.52-10
1.14-09	4.72-10	3.67-10	1.03-11	1.17-13	6.60-17	1.94-25	3.78-10	1.89-10
7.18-10	3.45-10	2.74-10	4.97-11	2.45-14	3.92-18	1.03-27	1.32-10	2.53-11
1.40-09	8.79-09	2.59-10	7.22-12	6.14-13	6.52-18	3.23-24	3.45-10	1.28-10
8.09-10	7.67-10	2.10-10	3.48-11	1.30-14	7.65-17	1.75-23	2.59-10	5.69-11
2.25-09	2.96-10	7.34-11	1.42-10	1.09-12	1.25-15	1.85-22	6.90-10	4.21-10
6.43-10	9.76-10	5.94-10	3.11-12	7.55-15	7.87-20	6.29-25	1.89-10	5.71-11
2.24-09	4.35-09	4.08-10	5.93-11	3.49-12	2.61-16	1.64-19		
4.90-10	2.78-09	6.96-11	2.54-11	2.56-12	2.08-16	1.64-19	1.03-09	2.63-10

PHI 90 TO 135 DEGREES

8.00-10	6.06-11	2.17-10	1.15-12	2.82-13	2.73-15	8.27-31	1.35-09	1.16-09
1.98-09	2.06-10	1.36-10	9.55-12	1.63-13	3.11-17	4.03-26	2.57-10	8.74-11
9.25-10	1.86-10	2.83-10	2.96-11	4.65-13	2.01-17	6.30-21	9.66-11	3.09-11
1.23-09	4.68-10	4.93-10	6.20-11	1.67-12	5.05-15	8.42-27	3.60-10	2.02-10
3.29-10	1.71-10	3.81-10	1.50-11	1.12-13	8.65-19	2.13-28	1.08-10	4.17-11
3.55-09	1.10-10	5.49-10	2.39-11	2.22-13	7.21-17	2.69-23	2.80-10	8.65-11
4.32-10	4.52-10	2.79-10	2.29-11	1.67-13	9.69-19	1.11-23	1.55-10	4.54-11
5.78-10	8.66-10	1.32-09	1.89-10	1.95-13	6.30-19	5.30-26	1.94-10	6.95-11
1.08-09	2.01-10	2.79-10	1.09-10	1.49-11	1.67-16	9.27-28	1.08-10	2.02-11
4.17-10	4.99-10	8.90-11	2.71-10	2.88-12	2.76-18	4.88-30	9.06-11	2.07-11
2.22-09	7.33-10	9.31-10	1.29-10	3.65-12	1.86-15	1.68-21		
5.20-10	1.85-10	2.55-10	4.94-11	2.62-12	1.46-15	1.67-21	4.63-10	1.04-10

PHI 135 TO 180 DEGREES

2.80-09	7.16-10	7.28-11	1.92-12	1.54-15	3.53-16	5.45-30	9.51-11	5.19-11
8.15-10	6.71-10	2.47-10	7.68-12	8.22-14	9.26-17	1.99-20	3.43-10	1.61-10
1.11-09	4.63-10	1.43-10	9.28-12	2.47-14	7.69-17	4.36-24	1.56-10	5.45-11
2.86-10	9.00-10	9.97-10	2.50-11	2.83-14	2.84-15	2.04-28	2.79-10	1.25-10
2.09-09	1.15-09	5.67-10	6.51-12	1.00-12	1.13-17	1.72-22	1.32-10	4.78-11
9.62-10	1.78-09	6.97-10	2.64-11	3.28-13	2.01-18	8.48-21	1.43-10	5.63-11
2.37-10	2.51-10	2.17-10	1.14-11	1.14-13	6.70-17	2.81-22	1.70-10	8.89-11
7.33-10	5.52-10	3.41-10	3.36-11	9.12-14	3.81-17	1.03-24	2.19-10	8.95-11
6.30-10	7.39-10	4.49-09	6.75-11	5.07-13	2.06-17	8.25-21	8.00-10	6.04-10
5.17-10	9.73-11	3.22-11	1.81-10	5.69-14	6.41-15	3.67-26	1.67-10	7.11-11
1.64-09	1.45-09	1.57-09	5.31-11	4.14-13	1.41-15	6.49-21		
4.22-10	3.49-10	9.35-10	1.59-11	1.80-13	1.02-15	4.06-21	5.08-10	1.25-10
							2.87-08	1.52-09

AIR SCATTERING 3.38 02 ENERGY 6.00-01 ANGLE 6.00 01 DIST. 1.22 03
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.	1.27-07	1.99-07	0.	0.	0.	0.	0.
4.00 01	0.	0.	8.02-08	0.	0.	0.	0.	0.
6.00 01	0.	0.	2.24-09	8.50-08	0.	0.	0.	0.
8.00 01	0.	0.	0.	4.92-08	1.70-08	0.	0.	0.
9.00 01	0.	0.	0.	0.	5.46-08	0.	0.	0.
1.00 02	0.	0.	0.	0.	4.60-08	0.	0.	0.
1.20 02	0.	0.	0.	0.	1.90-08	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.	7.67-09	2.65-08	3.87-08	2.92-08	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.	9.85-08	1.27-07	0.	7.80-09	1.01-08	8.04-09	3.03-09
4.00 01	0.	0.	5.85-08	0.	5.30-09	5.37-09	1.83-09	3.83-10
6.00 01	0.	0.	4.93-09	5.93-08	1.60-09	4.27-09	8.00-09	1.15-09
8.00 01	0.	0.	0.	3.19-08	1.83-08	3.27-09	1.01-09	8.25-10
9.00 01	0.	0.	0.	1.44-09	3.81-08	9.85-09	7.82-10	1.70-09
1.00 02	0.	0.	0.	0.	3.58-08	1.47-09	1.25-09	1.31-09
1.20 02	0.	0.	0.	2.59-10	2.61-08	3.96-09	1.41-09	3.47-09
1.40 02	0.	0.	0.	1.38-10	4.79-09	9.77-10	1.04-09	2.22-09
1.60 02	0.	0.	2.12-14	1.14-11	1.35-09	1.54-09	1.13-09	2.04-09
1.80 02	0.	0.	0.	0.	7.45-12	7.03-11	1.49-10	9.77-10
	0.	5.94-09	1.91-08	2.65-08	3.07-08	7.54-09	4.56-09	3.48-09
	0.	1.40-09	2.10-09	2.42-09	2.23-09	1.44-09	2.01-09	5.80-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	3.95-09	2.57-08	6.57-10
4.00 01	0.	0.	0.	0.	0.	3.08-10	2.00-09	1.26-09
6.00 01	0.	0.	0.	0.	1.77-11	2.10-09	4.41-09	7.33-10
8.00 01	0.	0.	0.	0.	2.13-10	3.09-09	2.17-09	1.84-09
9.00 01	0.	0.	0.	0.	1.70-10	4.34-09	1.70-09	4.47-10
1.00 02	0.	0.	0.	3.60-11	2.80-11	1.77-09	7.04-10	1.84-09
1.20 02	0.	0.	0.	9.16-12	8.72-10	1.87-09	1.01-09	2.24-09
1.40 02	0.	0.	0.	0.	2.68-10	7.04-10	4.81-10	9.75-10
1.60 02	0.	0.	0.	3.01-11	2.14-11	1.40-08	5.33-10	6.69-10
1.80 02	0.	0.	0.	0.	1.31-10	4.63-10	2.27-11	9.07-11
	0.	0.	0.	1.45-11	4.76-10	6.17-09	4.75-09	2.56-09
	0.	0.	0.	7.94-12	1.47-10	2.13-09	1.20-09	4.79-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	0.	1.14-08	1.84-10
4.00 01	0.	0.	0.	0.	0.	4.43-15	3.88-09	9.64-10
6.00 01	0.	0.	0.	0.	0.	3.97-09	2.91-09	2.88-10
8.00 01	0.	0.	0.	0.	1.23-09	1.42-09	1.63-08	1.01-09
9.00 01	0.	0.	0.	0.	1.82-12	2.15-10	1.71-09	2.14-09
1.00 02	0.	0.	0.	0.	0.	2.61-09	1.94-09	2.05-10
1.20 02	0.	0.	0.	7.48-12	3.59-12	2.15-09	1.63-09	3.58-09
1.40 02	0.	0.	0.	0.	6.73-11	9.74-10	4.29-10	1.06-09
1.60 02	0.	0.	0.	3.70-13	1.08-10	8.84-10	1.23-09	3.47-09
1.80 02	0.	0.	0.	0.	7.95-10	3.35-10	2.97-10	5.51-11
	0.	0.	0.	2.51-12	4.86-10	3.14-09	8.95-09	3.05-09
	0.	0.	0.	2.44-12	4.03-10	1.06-09	5.01-09	9.09-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	3.76-09	4.62-10	1.34-10
4.00 01	0.	0.	0.	0.	0.	0.	1.86-09	4.74-10
6.00 01	0.	0.	0.	0.	0.	0.	3.29-09	1.03-10
8.00 01	0.	0.	0.	0.	0.	7.87-12	1.81-09	7.35-11
9.00 01	0.	0.	0.	0.	0.	1.69-13	3.64-10	3.34-11
1.00 02	0.	0.	0.	0.	1.09-10	1.53-09	7.64-10	1.41-09
1.20 02	0.	0.	0.	0.	0.	1.07-09	1.05-09	8.63-10
1.40 02	0.	0.	0.	0.	0.	4.89-10	2.51-10	1.77-10
1.60 02	0.	0.	0.	0.	3.03-13	9.29-10	2.97-10	1.57-09
1.80 02	0.	0.	0.	0.	3.09-12	3.59-10	8.83-10	1.11-09
	0.	0.	0.	0.	1.92-11	1.16-09	2.53-09	1.06-09
	0.	0.	0.	0.	1.90-11	4.76-10	6.85-10	3.16-10

370622667675 146664626725

AIR SCATTERING 3.38 02 ENERGY 6.00-01 ANGLE 6.00 01 DIST. 1.22 03
6.30 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.	3.26-08	
0.	0.	0.	0.	0.	0.	0.	8.02-09	
0.	0.	0.	0.	0.	0.	0.	4.47-09	
0.	0.	0.	0.	0.	0.	0.	3.31-09	
0.	0.	0.	0.	0.	0.	0.	2.73-09	
0.	0.	0.	0.	0.	0.	0.	2.30-09	
0.	0.	0.	0.	0.	0.	0.	9.52-10	
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.		
							6.81-09	

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		
4.86-10	3.57-10	1.60-09	3.99-11	1.93-14	2.46-21	1.26-27	2.36-08	3.17-09
1.76-09	5.00-10	4.49-10	1.47-10	1.97-13	2.20-17	8.43-26	6.39-09	8.76-10
6.84-10	2.59-10	1.40-10	6.23-11	6.51-13	9.72-17	4.25-22	3.95-09	5.83-10
4.10-09	7.86-10	3.91-10	1.79-11	4.96-13	4.09-16	1.82-20	2.74-09	2.68-10
1.21-09	5.05-10	4.47-10	4.13-11	2.67-12	6.71-16	2.13-24	2.36-09	2.65-10
4.89-10	2.79-09	4.55-10	2.98-11	1.04-13	2.30-16	9.46-25	1.94-09	1.56-10
3.12-09	3.28-10	2.19-10	8.71-11	2.18-12	9.39-17	5.66-27	1.62-09	2.68-10
2.03-09	1.10-09	4.79-10	5.24-11	1.42-14	1.13-17	4.24-28	4.08-10	9.12-11
7.24-10	2.63-10	4.85-10	4.19-11	4.48-13	2.63-16	1.60-25	2.11-10	4.49-11
1.46-09	1.77-10	2.31-10	3.48-11	1.64-13	2.18-16	2.84-27	5.99-11	2.60-11
3.92-09	1.46-09	7.93-10	1.14-10	1.65-12	4.12-16	6.04-21		
1.32-09	3.57-10	1.68-10	3.43-11	8.44-13	1.99-16	6.03-21	5.90-09	3.34-10

PHI 45 TO 90 DEGREES

6.02-10	5.11-10	2.71-11	9.71-12	5.94-13	4.75-21	5.53-29	9.19-10	4.27-10
3.77-10	1.50-09	6.44-10	1.13-10	1.04-13	1.44-18	2.74-26	1.24-10	3.85-11
4.29-10	9.90-10	4.05-10	3.11-11	2.25-12	3.83-16	6.19-25	2.34-10	8.03-11
5.00-10	2.82-10	8.68-10	1.36-11	3.20-13	1.47-16	6.58-25	2.27-10	6.52-11
1.19-09	5.35-10	1.74-10	5.43-12	1.05-12	5.74-18	6.68-23	2.29-10	7.24-11
4.45-10	2.09-10	2.35-10	3.07-11	7.71-12	2.53-19	6.74-30	1.28-10	4.37-11
4.50-10	4.39-10	3.59-10	3.60-11	2.74-13	5.04-18	1.00-23	1.92-10	4.19-11
1.49-09	4.61-10	8.55-10	1.25-10	4.13-14	1.12-17	2.31-25	1.12-10	2.47-11
4.73-10	1.31-09	6.82-11	7.74-11	4.49-12	5.73-17	8.96-26	4.75-10	3.51-10
3.17-10	5.29-10	2.61-10	4.32-12	2.65-14	7.72-19	1.47-24	3.72-11	1.18-11
1.31-09	1.30-09	9.48-10	9.80-11	3.16-12	1.66-16	1.54-23		
2.88-10	3.38-10	2.69-10	3.45-11	1.64-12	1.02-16	1.21-23	4.53-10	7.74-11

PHI 90 TO 135 DEGREES

3.82-10	7.30-10	7.05-11	7.31-12	1.57-15	1.02-21	2.31-30	3.61-10	2.02-10
1.85-09	1.18-10	4.49-10	2.51-11	1.30-13	5.59-18	1.83-25	1.78-10	8.25-11
4.21-09	4.99-10	2.65-10	5.88-11	2.28-13	1.54-17	5.67-27	3.04-10	1.05-10
5.61-10	7.21-10	2.04-10	1.10-10	1.78-12	4.30-17	1.21-27	6.33-10	4.61-10
9.38-10	8.59-10	7.73-10	3.20-11	6.04-14	9.69-17	7.78-21	1.36-10	3.56-11
7.77-10	3.56-10	5.97-11	6.88-12	3.28-13	6.01-18	3.01-25	1.60-10	6.32-11
1.31-09	1.36-09	6.46-10	2.94-11	4.51-13	2.59-16	1.14-24	2.32-10	7.91-11
1.84-09	3.73-10	7.26-11	5.61-11	3.00-13	2.18-15	4.73-26	1.08-10	3.44-11
6.61-10	6.82-10	1.33-10	1.60-10	8.75-14	4.30-17	9.39-29	1.61-10	5.68-11
4.59-11	8.56-10	7.67-11	2.07-11	2.52-14	1.72-15	1.33-28	7.02-11	4.18-11
2.98-09	1.36-09	6.22-10	1.16-10	9.76-13	8.13-16	1.35-21		
1.06-09	5.36-10	2.22-10	4.23-11	5.28-13	6.55-16	1.35-21	5.29-10	1.58-10

PHI 135 TO 180 DEGREES

1.30-09	2.30-10	4.51-10	1.10-11	1.36-12	9.86-18	2.35-26	1.62-10	1.16-10
3.27-10	1.30-10	5.09-11	3.60-11	8.26-14	1.12-18	5.04-24	7.38-11	2.30-11
2.88-10	4.63-09	1.37-10	3.56-12	9.75-14	1.80-18	1.87-28	1.54-10	5.85-11
1.89-10	1.13-09	3.23-09	2.01-11	4.53-13	1.38-17	3.98-22	1.03-10	4.06-11
2.55-10	8.41-11	1.85-09	3.97-11	9.50-13	2.76-16	5.44-23	3.43-11	1.28-11
6.03-10	5.04-10	4.84-11	2.33-11	5.40-13	7.60-18	1.45-24	1.20-10	4.97-11
8.48-10	1.18-10	5.32-10	2.63-11	6.00-14	3.05-16	7.82-24	1.04-10	3.38-11
4.13-10	2.08-10	3.83-10	1.86-11	4.82-14	9.88-17	2.56-26	4.01-11	1.39-11
7.61-10	2.00-10	7.66-10	5.06-11	1.51-12	8.94-19	7.64-28	9.35-11	3.02-11
7.23-10	1.04-09	8.66-11	1.49-09	3.80-14	8.80-21	2.17-30	9.56-11	3.06-11
9.85-10	1.93-09	1.84-09	1.37-10	8.26-13	1.81-16	1.43-22		
1.96-10	9.32-10	8.50-10	8.67-11	3.52-13	1.21-16	1.39-22	1.91-10	3.61-11
							1.11-08	6.24-10

AIR SCATTERING 3.39 02 ENERGY 6.00-01 ANGLE 9.00 01 DIST. 1.22 03
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.	1.07-07	1.62-07	0.	0.	0.	0.
4.00 01	0.	0.	0.	1.16-07	0.	0.	0.	0.
6.00 01	0.	0.	0.	1.61-08	4.87-08	0.	0.	0.
8.00 01	0.	0.	0.	0.	3.30-08	0.	0.	0.
9.00 01	0.	0.	0.	0.	3.85-09	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.	6.44-09	3.43-08	2.44-08	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.	6.80-08	1.11-07	4.11-09	4.66-09	1.36-09	2.44-10
4.00 01	0.	0.	8.06-10	8.16-08	1.12-08	6.02-09	1.11-09	1.61-09
6.00 01	0.	0.	0.	1.40-08	3.89-08	5.80-09	1.97-09	8.25-09
8.00 01	0.	0.	0.	1.85-10	3.68-08	1.76-09	1.45-09	2.75-09
9.00 01	0.	0.	0.	1.44-11	1.14-08	2.10-09	6.49-09	1.40-09
1.00 02	0.	0.	0.	1.01-12	1.95-09	8.94-10	2.38-09	1.98-09
1.20 02	0.	0.	0.	1.86-12	3.06-09	4.45-10	2.26-09	5.44-09
1.40 02	0.	0.	0.	7.35-14	5.43-10	1.46-09	5.40-10	1.14-09
1.60 02	0.	0.	0.	0.	3.15-11	8.06-10	6.38-10	9.43-10
1.80 02	0.	0.	0.	0.	5.69-12	5.12-14	3.63-10	3.06-10
	0.	0.	4.24-09	2.46-08	2.80-08	4.64-09	3.83-09	6.23-09
	0.	0.	6.41-10	2.10-09	2.24-09	9.79-10	1.05-09	2.34-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	0.	7.68-09	6.15-09	2.60-10
4.00 01	0.	0.	0.	0.	3.22-12	1.93-09	4.04-10	5.22-10
6.00 01	0.	0.	0.	0.	7.56-10	4.71-09	8.14-10	6.98-10
8.00 01	0.	0.	0.	0.	3.70-10	3.76-09	5.69-10	8.70-10
9.00 01	0.	0.	0.	0.	3.57-12	6.64-10	6.62-10	1.06-09
1.00 02	0.	0.	0.	1.21-11	8.17-12	6.43-10	2.76-10	5.94-10
1.20 02	0.	0.	0.	6.22-12	1.85-11	5.68-10	3.79-10	1.62-09
1.40 02	0.	0.	0.	0.	2.20-17	7.61-10	4.03-10	3.64-09
1.60 02	0.	0.	0.	0.	1.36-11	8.63-10	5.57-10	3.06-10
1.80 02	0.	0.	0.	8.65-13	0.	1.07-10	3.83-10	2.28-10
	0.	0.	0.	4.18-12	3.33-10	4.05-09	1.36-09	2.42-09
	0.	0.	0.	2.52-12	1.52-10	1.08-09	3.26-10	6.00-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	0.	5.71-10	2.98-10	3.19-10
4.00 01	0.	0.	0.	0.	2.24-09	1.51-09	2.27-09	4.09-10
6.00 01	0.	0.	0.	0.	7.63-09	7.21-10	1.57-09	6.15-10
8.00 01	0.	0.	0.	0.	0.	2.07-10	7.28-10	2.39-10
9.00 01	0.	0.	0.	0.	1.64-12	7.59-10	7.96-10	5.62-10
1.00 02	0.	0.	0.	0.	0.	2.56-10	8.95-10	2.94-09
1.20 02	0.	0.	0.	0.	9.69-11	2.02-09	6.52-10	1.25-09
1.40 02	0.	0.	0.	0.	5.76-12	1.10-09	1.92-09	9.06-10
1.60 02	0.	0.	0.	0.	0.	2.76-09	1.23-09	6.56-10
1.80 02	0.	0.	0.	0.	0.	2.90-12	1.72-09	2.25-09
	0.	0.	0.	0.	2.45-09	2.16-09	2.40-09	1.84-09
	0.	0.	0.	0.	2.07-09	8.07-10	3.61-10	4.93-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	0.	2.35-12	6.16-10	4.90-09
4.00 01	0.	0.	0.	0.	2.89-09	2.21-09	2.06-09	9.48-10
6.00 01	0.	0.	0.	0.	0.	0.	1.65-09	7.38-10
8.00 01	0.	0.	0.	0.	0.	4.65-10	1.48-09	8.27-10
9.00 01	0.	0.	0.	0.	0.	0.	4.68-10	2.81-10
1.00 02	0.	0.	0.	0.	0.	2.70-12	4.43-10	2.65-10
1.20 02	0.	0.	0.	0.	0.	5.90-13	8.97-10	8.59-10
1.40 02	0.	0.	0.	0.	0.	3.44-11	3.18-10	9.09-11
1.60 02	0.	0.	0.	0.	0.	1.49-12	1.25-09	1.21-09
1.80 02	0.	0.	0.	0.	5.62-11	1.41-10	1.36-10	1.64-10
	0.	0.	0.	0.	5.05-10	5.55-10	2.08-09	1.55-09
	0.	0.	0.	0.	5.01-10	3.48-10	3.42-10	4.75-10

146664626725 062506153721

AIR SCATTERING 3.39 02 ENERGY 6.00-01 ANGLE 9.00 01 DIST. 1.22 03
5.80 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.	1.88-08
0.	0.	0.	0.	0.	0.	0.	5.82-09
0.	0.	0.	0.	0.	0.	0.	3.24-09
0.	0.	0.	0.	0.	0.	0.	1.65-09
0.	0.	0.	0.	0.	0.	0.	1.92-10
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.
							3.58-09

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		
1.23-09	1.43-10	5.84-10	1.02-11	3.65-14	6.00-19	1.90-30	1.28-08	1.45-09
5.87-10	5.28-10	8.72-11	4.41-10	6.42-13	3.04-19	9.56-28	4.99-09	5.95-10
2.99-09	4.25-10	8.39-11	6.81-10	2.46-13	1.73-16	1.38-25	3.11-09	2.99-10
8.16-10	4.63-10	1.79-10	2.29-10	3.25-13	2.58-16	1.26-24	2.03-09	2.10-10
2.60-09	4.15-10	1.47-10	1.96-11	1.65-12	8.05-18	2.82-25	9.13-10	2.29-10
1.56-09	6.18-10	3.03-10	3.05-11	3.12-13	9.83-18	7.14-26	2.76-10	5.95-11
8.82-10	5.29-10	4.50-10	2.24-10	8.18-13	1.04-17	4.20-25	3.72-10	1.39-10
7.36-09	2.86-10	1.81-10	2.49-11	1.73-13	2.34-17	6.11-29	2.62-10	1.37-10
2.40-10	2.51-10	3.61-11	3.22-10	2.08-14	8.65-18	6.52-28	7.37-11	1.75-11
1.54-09	1.23-10	3.26-10	8.49-12	5.11-14	2.15-21	4.54-32	5.26-11	2.62-11
4.34-09	8.44-10	4.31-10	4.78-10	9.45-13	1.44-16	6.48-25		
1.88-09	1.28-10	7.38-11	2.47-10	4.45-13	9.54-17	4.38-25	3.54-09	1.98-10

PHI 45 TO 90 DEGREES

4.53-10	2.83-09	5.60-10	1.10-11	1.87-14	5.53-19	1.36-28	4.63-10	2.31-10
4.88-10	4.98-11	6.38-10	4.07-11	4.77-13	1.75-16	2.32-25	9.75-11	2.03-11
1.99-10	3.67-10	4.24-10	1.79-11	3.36-14	3.62-16	1.13-26	2.30-10	6.37-11
6.33-10	1.68-09	2.99-10	3.35-11	8.96-14	2.55-16	3.49-22	1.99-10	8.31-11
6.51-10	5.48-10	3.62-10	1.16-10	1.19-13	1.40-19	7.32-27	8.40-11	1.65-11
8.80-10	6.43-10	8.96-11	1.38-11	3.30-14	5.04-18	6.21-26	6.54-11	1.77-11
3.68-09	2.15-10	5.17-10	1.17-11	6.11-14	1.10-16	5.67-24	1.43-10	6.36-11
6.26-10	8.24-10	4.36-10	4.27-11	5.07-14	5.31-18	7.31-27	1.33-10	4.19-11
3.01-10	4.61-10	2.17-10	3.89-12	2.28-13	3.38-16	3.63-25	6.22-11	1.54-11
1.31-09	7.42-11	1.75-10	3.22-11	2.31-13	3.90-17	1.45-24	4.83-11	2.33-11
2.14-09	1.40-09	7.66-10	6.38-11	2.35-13	3.09-16	1.16-22		
9.82-10	4.96-10	2.03-10	2.27-11	8.38-14	1.37-16	1.14-22	2.92-10	4.38-11

PHI 90 TO 135 DEGREES

8.21-11	2.67-10	2.18-10	4.68-12	1.62-13	3.43-18	7.32-27	3.90-11	1.06-11
2.29-10	5.67-10	3.53-11	1.10-11	1.70-12	1.31-16	2.75-23	2.45-10	1.20-10
7.59-10	9.35-10	9.30-11	1.13-11	2.21-13	4.15-16	4.09-25	4.88-10	3.82-10
4.61-10	4.16-10	8.28-09	3.34-11	3.47-14	1.04-16	1.40-24	1.29-10	8.18-11
2.75-10	3.33-10	3.51-11	1.36-11	6.79-14	1.28-18	1.01-26	6.73-11	2.37-11
2.88-10	2.77-10	4.16-09	1.79-10	1.01-13	5.35-17	4.62-21	1.45-10	6.12-11
7.43-10	2.25-10	1.41-10	1.09-11	1.05-13	3.49-17	8.78-24	1.29-10	6.04-11
5.54-10	3.41-10	1.17-10	1.23-11	4.06-11	8.48-17	7.53-23	1.25-10	4.12-11
4.76-10	4.44-10	1.22-10	3.90-12	3.67-14	1.29-17	1.37-26	1.48-10	7.00-11
7.86-11	1.05-09	5.69-11	2.50-13	5.08-12	1.78-15	3.06-29	1.09-10	4.94-11
9.72-10	9.09-10	3.58-09	5.71-11	1.16-11	3.20-16	8.30-22		
1.53-10	1.86-10	3.34-09	3.33-11	1.08-11	1.71-16	8.04-22	3.61-10	1.14-10

PHI 135 TO 180 DEGREES

1.31-09	1.99-10	1.43-10	8.12-10	7.59-13	1.86-16	2.68-28	1.52-10	1.18-10
6.44-10	5.80-10	7.24-11	9.12-11	1.91-13	1.17-15	9.37-25	3.12-10	1.58-10
1.66-09	2.02-10	4.26-10	1.14-11	1.40-13	2.95-18	6.23-23	1.04-10	3.31-11
5.99-10	4.61-10	1.46-10	4.12-11	2.16-12	3.86-17	2.75-20	9.31-11	3.02-11
5.27-10	6.84-09	1.08-10	1.18-10	5.47-14	1.81-18	3.42-28	1.00-10	6.66-11
5.13-09	1.47-10	1.28-10	7.72-12	3.94-14	4.57-15	1.41-22	1.24-10	9.32-11
1.90-09	2.09-10	1.21-10	1.08-11	1.47-14	3.20-17	1.38-22	8.55-11	3.74-11
6.78-10	7.73-11	9.86-11	1.12-10	1.16-13	5.94-14	2.85-19	2.85-11	1.03-11
2.38-10	6.38-10	5.73-11	4.75-11	6.96-12	9.29-17	5.55-18	7.37-11	2.91-11
1.38-09	6.92-11	2.94-10	2.02-11	3.86-13	1.89-19	7.04-23	4.57-11	1.92-11
2.73-09	1.73-09	3.17-10	1.46-10	2.11-12	1.69-14	1.05-18		
1.07-09	1.15-09	8.02-11	7.92-11	1.09-12	1.58-14	1.04-18	2.11-10	4.06-11
							6.92-09	4.04-10

AIR SCATTERING 3.40 02 ENERGY 6.00-01 ANGLE 1.35 02 DIST. 1.22 03
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.	4.80-07	0.	0.	0.
4.00 01	0.	0.	0.	0.	9.72-08	0.	0.	0.
6.00 01	0.	0.	0.	0.	7.38-10	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.	4.60-08	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.	0.	0.	3.19-07	8.81-09	5.42-09	1.14-09
4.00 01	0.	0.	0.	0.	7.85-08	4.37-09	2.61-09	2.55-09
6.00 01	0.	0.	0.	0.	8.50-09	1.26-09	5.49-09	5.25-09
8.00 01	0.	0.	0.	4.96-14	5.89-09	1.84-09	4.46-10	7.86-10
9.00 01	0.	0.	0.	0.	3.24-10	2.88-09	4.80-09	1.38-09
1.00 02	0.	0.	0.	0.	4.66-11	4.98-09	4.08-10	4.17-09
1.20 02	0.	0.	0.	0.	2.51-11	8.93-10	6.33-10	4.44-10
1.40 02	0.	0.	0.	0.	0.	8.77-10	3.48-10	2.93-09
1.60 02	0.	0.	0.	0.	0.	2.38-11	5.93-10	6.86-10
1.80 02	0.	0.	0.	0.	0.	0.	2.86-10	1.30-09
	0.	0.	0.	1.62-14	3.71-08	4.12-09	3.71-09	4.25-09
	0.	0.	0.	1.62-14	2.17-09	8.32-10	1.27-09	1.19-09

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	0.	2.41-09	3.70-09	1.06-09	8.59-10
4.00 01	0.	0.	0.	0.	5.32-09	6.63-09	6.39-09	1.26-09
6.00 01	0.	0.	0.	0.	7.44-10	3.26-09	5.14-10	1.65-09
8.00 01	0.	0.	0.	0.	2.52-11	1.01-09	7.58-10	2.67-09
9.00 01	0.	0.	0.	0.	4.95-12	8.48-10	8.29-10	2.54-10
1.00 02	0.	0.	0.	0.	7.17-15	8.99-10	8.27-10	6.58-10
1.20 02	0.	0.	0.	0.	0.	5.41-10	1.91-10	5.20-10
1.40 02	0.	0.	0.	0.	2.28-13	6.83-11	1.80-09	5.21-10
1.60 02	0.	0.	0.	0.	0.	4.29-11	4.84-10	1.48-09
1.80 02	0.	0.	0.	0.	0.	8.29-10	1.60-09	5.99-10
	0.	0.	0.	0.	1.28-09	3.13-09	2.57-09	2.34-09
	0.	0.	0.	0.	2.90-10	5.99-10	6.16-10	4.89-10

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	8.68-09	1.20-08	3.97-10	1.00-09
4.00 01	0.	0.	0.	0.	1.85-10	4.89-09	1.60-09	6.25-10
6.00 01	0.	0.	0.	0.	3.74-10	1.71-09	2.46-09	2.47-09
8.00 01	0.	0.	0.	0.	6.22-10	5.62-10	1.19-09	3.85-09
9.00 01	0.	0.	0.	0.	0.	3.91-10	9.06-10	6.97-10
1.00 02	0.	0.	0.	0.	0.	1.37-10	1.09-09	4.31-10
1.20 02	0.	0.	0.	0.	3.24-12	1.55-10	5.01-10	3.78-10
1.40 02	0.	0.	0.	0.	0.	1.10-11	6.73-09	4.25-10
1.60 02	0.	0.	0.	0.	0.	3.16-11	5.71-09	4.54-10
1.80 02	0.	0.	0.	0.	0.	9.00-12	7.49-11	2.49-10
	0.	0.	0.	0.	8.59-10	2.37-09	4.64-09	2.61-09
	0.	0.	0.	0.	5.55-10	5.94-10	1.94-09	7.48-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	6.61-10	5.80-09	6.56-10	5.07-10
4.00 01	0.	0.	0.	0.	3.04-13	1.63-09	3.72-10	4.90-10
6.00 01	0.	0.	0.	0.	0.	5.16-10	9.87-10	7.98-10
8.00 01	0.	0.	0.	0.	0.	1.72-09	2.86-09	1.04-09
9.00 01	0.	0.	0.	0.	0.	5.51-13	8.13-10	4.38-10
1.00 02	0.	0.	0.	0.	0.	2.00-11	2.33-10	1.74-10
1.20 02	0.	0.	0.	0.	3.32-13	1.63-10	5.50-10	1.13-09
1.40 02	0.	0.	0.	0.	0.	5.74-10	8.25-10	8.64-11
1.60 02	0.	0.	0.	0.	0.	0.	6.44-10	7.35-10
1.80 02	0.	0.	0.	0.	0.	0.	3.57-09	1.59-11
	0.	0.	0.	0.	4.00-11	1.54-09	2.21-09	1.29-09
	0.	0.	0.	0.	3.91-11	6.33-10	4.97-10	2.70-10

062506153721 254517177351

AIR SCATTERING 3.40 02 ENERGY 6.00-01 ANGLE 1.35 02 DIST. 1.22 03
5.80 01 1.73 03 0. 0. 5.60 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.	2.40-08
0.	0.	0.	0.	0.	0.	0.	4.86-09
0.	0.	0.	0.	0.	0.	0.	3.69-11
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.	
							2.30-09

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		
1.80-09	1.10-09	5.76-10	8.06-12	1.65-13	1.36-14	7.01-24	1.65-08	1.23-09
1.24-09	1.26-09	5.45-10	7.62-11	7.73-12	3.42-17	4.44-26	4.23-09	2.25-10
2.27-09	2.55-09	2.10-10	8.33-11	1.93-12	4.85-16	1.09-22	8.06-10	1.93-10
6.44-10	1.36-09	2.86-10	6.09-11	2.92-13	1.11-17	5.53-26	4.09-10	2.08-10
5.33-10	3.25-10	2.05-10	7.90-12	4.11-13	5.89-18	2.79-30	2.90-10	1.44-10
1.83-09	3.30-10	6.99-10	3.35-11	1.63-13	9.89-18	3.10-26	2.94-10	1.21-10
9.36-10	7.80-10	6.12-10	4.49-11	1.07-13	1.59-17	3.00-28	8.89-11	1.87-11
5.38-10	6.69-10	3.57-10	1.78-10	1.81-12	5.37-18	2.39-22	1.18-10	5.39-11
1.57-09	1.21-10	3.95-10	1.10-10	1.10-12	2.38-14	1.04-28	6.95-11	2.79-11
2.36-10	1.74-10	1.10-09	2.16-10	6.66-14	1.74-18	4.01-23	5.35-11	1.93-11
2.29-09	1.99-09	8.65-10	1.57-10	2.77-12	5.10-15	9.54-23		
5.03-10	4.04-10	1.91-10	5.91-11	1.46-12	4.12-15	6.92-23	2.25-09	1.50-10

PHI 45 TO 90 DEGREES

1.41-09	1.09-10	2.11-10	1.07-09	1.24-12	3.98-15	3.81-23	3.20-10	9.58-11
1.09-09	7.35-10	1.59-09	2.42-11	7.91-13	1.25-14	2.31-26	7.27-10	1.66-10
1.47-09	4.69-10	2.81-10	1.65-11	5.10-13	1.24-16	1.79-24	2.20-10	4.17-11
2.82-09	4.81-10	1.10-10	6.80-12	1.69-13	2.98-18	1.03-28	1.70-10	4.85-11
1.68-09	3.32-10	1.97-10	2.84-11	2.76-12	1.95-18	1.40-28	9.47-11	3.11-11
3.10-10	3.08-10	4.05-10	1.71-11	5.28-14	5.98-18	1.28-25	7.84-11	2.07-11
6.58-09	1.13-09	1.45-10	3.73-11	1.71-13	7.40-17	3.25-27	1.77-10	1.18-10
1.25-09	7.17-10	1.74-10	8.69-12	2.55-13	9.23-18	1.36-20	1.00-10	3.76-11
2.89-10	1.74-09	1.03-09	1.08-11	1.53-14	2.13-16	3.17-25	7.91-11	2.87-11
2.50-09	1.64-09	3.27-10	8.80-12	7.17-13	6.78-14	3.83-27	1.55-10	7.78-11
4.61-09	1.49-09	7.97-10	9.99-11	1.06-12	6.60-15	3.62-21		
2.05-09	4.94-10	2.06-10	6.28-11	4.62-13	4.64-15	3.62-21	3.97-10	5.70-11

PHI 90 TO 135 DEGREES

2.06-10	1.30-10	1.99-10	4.95-12	6.57-15	7.28-20	4.48-29	8.35-10	4.44-10
2.07-09	1.18-09	3.86-11	5.75-11	1.79-12	2.75-17	3.11-27	2.70-10	9.48-11
3.09-10	6.24-11	5.51-10	1.54-11	4.46-14	1.61-16	1.38-22	2.06-10	4.68-11
6.69-10	6.52-09	5.63-10	2.38-10	4.71-13	2.47-18	1.62-27	2.46-10	8.85-11
6.56-10	1.02-10	1.69-09	3.64-10	8.00-13	8.32-17	1.05-19	8.64-11	2.45-11
9.44-10	4.72-10	1.05-10	1.30-11	6.02-14	1.86-18	8.84-22	7.01-11	1.90-11
1.56-09	2.93-10	1.15-10	2.07-11	1.25-12	2.61-19	5.94-21	6.28-11	2.89-11
2.85-10	8.35-09	1.58-10	9.19-11	5.57-12	1.35-17	6.55-25	3.02-10	2.01-10
8.45-10	4.94-10	4.12-10	8.97-12	4.12-12	3.26-17	1.47-24	2.07-10	1.67-10
7.54-10	4.82-10	8.80-11	1.36-10	1.11-14	4.11-15	9.45-29	2.92-11	1.57-11
1.73-09	4.89-09	8.17-10	1.99-10	3.23-12	3.21-16	2.04-20		
5.19-10	2.99-09	2.91-10	9.92-11	1.68-12	2.37-16	2.00-20	3.98-10	8.20-11

PHI 135 TO 180 DEGREES

4.89-10	7.82-10	1.46-09	1.69-11	1.40-14	1.21-16	1.06-33	2.69-10	1.07-10
6.34-10	3.88-09	1.44-09	9.23-12	2.72-14	1.47-19	4.35-27	1.36-10	5.27-11
4.80-10	3.75-10	1.11-10	7.89-12	1.86-14	2.10-18	2.64-23	7.56-11	1.92-11
7.24-10	6.29-11	2.39-10	1.53-10	5.03-14	8.07-16	6.81-26	1.77-10	6.60-11
3.37-10	6.78-10	1.38-10	8.50-12	6.05-14	1.36-19	1.07-18	4.81-11	1.52-11
1.06-10	8.84-10	9.30-12	2.69-12	5.69-13	1.00-16	1.36-17	2.21-11	7.09-12
6.41-10	1.10-09	1.57-10	5.09-11	3.77-13	6.13-15	7.72-24	6.99-11	2.06-11
5.14-10	2.16-10	3.22-10	3.12-11	6.28-14	4.69-17	5.24-25	5.96-11	2.88-11
1.01-10	4.73-10	1.92-10	3.56-11	9.11-14	2.08-17	1.67-26	4.30-11	1.70-11
1.19-09	4.83-12	1.26-09	9.99-12	1.63-12	2.91-19	7.00-29	1.44-10	1.00-10
1.02-09	1.61-09	7.17-10	8.81-11	3.90-13	2.31-15	2.55-18		
2.48-10	7.25-10	3.17-10	4.44-11	1.64-13	2.02-15	2.55-18	1.85-10	3.00-11
							5.08-09	3.21-10

AIR SCATTERING 3.41 02 ENERGY 6.00-01 ANGLE 1.80 02 DIST. 1.22 03
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.	6.77-07	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.	4.08-08	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.	0.	8.22-12	4.54-07	1.67-09	3.59-09	1.75-09
4.00 01	0.	0.	0.	0.	2.32-09	3.29-09	2.25-09	1.03-09
6.00 01	0.	0.	0.	0.	2.38-10	2.73-09	4.95-10	7.99-10
8.00 01	0.	0.	0.	0.	1.19-11	1.29-09	5.02-10	5.29-10
9.00 01	0.	0.	0.	0.	0.	1.48-09	1.29-09	2.98-10
1.00 02	0.	0.	0.	0.	0.	3.21-10	1.88-09	1.01-09
1.20 02	0.	0.	0.	0.	0.	1.07-10	3.40-09	6.68-10
1.40 02	0.	0.	0.	0.	0.	0.	1.72-09	1.43-09
1.60 02	0.	0.	0.	0.	0.	0.	1.20-09	2.72-10
1.80 02	0.	0.	0.	0.	0.	0.	3.90-09	3.51-11
	0.	0.	0.	4.96-13	2.79-08	2.17-09	3.45-09	1.55-09
	0.	0.	0.	4.96-13	1.42-09	4.33-10	7.61-10	3.67-10

PHI 45 TO 90 DEGREES

2.00 01	0.	0.	0.	5.10-13	5.16-08	2.12-09	2.22-09	2.22-09
4.00 01	0.	0.	0.	0.	2.34-09	1.99-09	2.57-09	1.69-09
6.00 01	0.	0.	0.	0.	1.20-10	2.90-09	9.84-09	1.50-09
8.00 01	0.	0.	0.	0.	4.15-14	7.25-09	1.52-09	5.91-09
9.00 01	0.	0.	0.	0.	0.	2.65-09	1.86-09	2.44-10
1.00 02	0.	0.	0.	0.	0.	5.27-11	1.12-09	2.48-10
1.20 02	0.	0.	0.	0.	0.	2.63-10	1.66-09	5.71-10
1.40 02	0.	0.	0.	0.	0.	4.36-14	3.30-10	1.36-09
1.60 02	0.	0.	0.	0.	0.	1.23-11	2.06-10	2.21-10
1.80 02	0.	0.	0.	0.	0.	0.	5.69-12	2.32-09
	0.	0.	0.	3.08-14	3.55-09	4.17-09	4.88-09	3.56-09
	0.	0.	0.	3.08-14	1.23-09	1.76-09	2.25-09	1.77-09

PHI 90 TO 135 DEGREES

2.00 01	0.	0.	0.	0.	2.23-08	1.20-08	1.20-09	2.37-09
4.00 01	0.	0.	0.	0.	7.06-09	1.37-08	1.63-09	2.48-09
6.00 01	0.	0.	0.	1.99-13	4.43-10	4.39-09	7.92-10	8.53-10
8.00 01	0.	0.	0.	1.13-12	0.	2.34-09	2.39-09	7.10-10
9.00 01	0.	0.	5.72-13	0.	0.	4.22-10	2.36-10	2.61-10
1.00 02	0.	0.	0.	0.	0.	3.30-11	8.65-10	9.30-10
1.20 02	0.	0.	0.	0.	0.	3.79-12	7.79-10	2.33-09
1.40 02	0.	0.	0.	0.	1.54-11	4.86-11	1.02-09	2.95-10
1.60 02	0.	0.	0.	0.	0.	0.	1.83-09	5.63-11
1.80 02	0.	0.	0.	0.	0.	3.10-13	4.68-10	4.31-12
	0.	0.	9.93-14	4.21-13	2.69-09	5.13-09	2.41-09	2.09-09
	0.	0.	9.93-14	3.72-13	8.09-10	2.30-09	7.51-10	5.88-10

PHI 135 TO 180 DEGREES

2.00 01	0.	0.	0.	0.	2.87-08	3.58-09	1.97-09	2.01-09
4.00 01	0.	0.	0.	0.	2.85-09	2.06-09	3.08-09	1.90-09
6.00 01	0.	0.	0.	0.	2.02-10	3.23-09	1.80-09	2.28-09
8.00 01	0.	0.	0.	0.	4.18-10	1.48-09	1.00-09	1.60-09
9.00 01	0.	0.	0.	0.	1.79-09	7.01-10	3.10-10	1.27-09
1.00 02	0.	0.	0.	0.	1.19-13	2.62-10	4.04-10	8.96-10
1.20 02	0.	0.	0.	0.	9.73-12	8.64-11	4.25-10	1.01-08
1.40 02	0.	0.	0.	0.	0.	2.37-10	2.46-10	8.25-10
1.60 02	0.	0.	0.	0.	0.	2.49-12	2.08-10	1.28-08
1.80 02	0.	0.	0.	0.	0.	0.	1.95-12	1.44-09
	0.	0.	0.	0.	2.73-09	2.18-09	1.82-09	7.79-09
	0.	0.	0.	0.	5.42-10	4.27-10	4.95-10	3.88-09

3138732675 21 0651477660 21

AIR SCATTERING 3.41 02 ENERGY 6.00-01 ANGLE 1.80 02 DIST. 1.22 03
8.00 01 1.71 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.	3.38-08
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.	2.04-09

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		
8.23-10	2.18-10	5.36-11	2.65-11	9.61-15	7.24-19	7.02-23	2.29-08	1.18-09
8.66-10	3.81-10	3.73-10	3.19-11	9.78-13	5.29-16	6.39-25	3.28-10	6.32-11
4.75-10	1.03-09	4.23-10	1.53-11	4.64-13	7.88-18	5.87-28	1.49-10	2.97-11
7.59-10	3.36-10	2.61-10	1.24-10	4.30-14	2.17-17	4.81-24	8.70-11	1.67-11
4.54-10	1.13-09	8.61-11	2.79-12	4.67-14	4.85-16	6.15-27	1.07-10	3.87-11
1.17-09	2.13-10	1.78-10	5.19-12	2.69-14	9.02-20	2.66-26	1.14-10	4.32-11
1.05-09	6.14-10	1.77-10	1.95-11	7.22-13	6.75-17	1.61-27	1.48-10	5.32-11
6.61-10	1.89-10	2.28-10	1.41-11	2.87-12	8.83-17	7.85-25	9.78-11	3.81-11
1.44-10	3.84-11	7.85-11	3.94-12	1.68-14	1.44-17	2.24-21	4.56-11	2.76-11
4.35-10	5.80-10	2.81-11	5.93-12	1.00-13	1.19-15	3.11-33	1.33-10	1.04-10
1.42-09	9.90-10	4.45-10	6.44-11	1.33-12	3.00-16	3.95-22		
2.62-10	2.50-10	1.14-10	3.84-11	7.97-13	1.55-16	3.89-22	1.64-09	8.30-11

PHI 45 TO 90 DEGREES

9.97-10	3.50-10	2.84-10	8.66-11	7.35-15	6.44-17	1.39-22	2.78-09	1.02-09
6.64-10	4.90-10	2.01-10	3.34-11	1.04-12	3.67-17	7.12-19	3.08-10	6.45-11
4.26-10	4.82-10	3.39-10	1.85-11	4.86-14	7.37-16	1.09-25	4.35-10	2.42-10
7.46-10	8.43-10	3.23-10	1.94-11	7.36-13	3.96-17	7.79-27	4.08-10	1.91-10
2.78-10	6.98-10	2.04-10	1.91-11	7.08-14	1.56-15	5.96-28	1.55-10	5.65-11
5.69-10	1.11-09	4.38-11	3.18-11	9.54-14	6.63-17	4.02-24	6.34-11	1.78-11
1.27-09	5.73-10	1.89-10	4.08-12	1.99-11	3.48-17	9.69-24	1.02-10	2.68-11
1.90-10	3.18-10	1.96-10	7.85-12	2.06-12	7.11-18	3.33-25	4.61-11	1.62-11
1.37-10	1.20-10	6.23-11	3.38-12	2.90-14	2.64-18	1.92-26	1.56-11	3.96-12
2.93-09	1.59-10	1.71-10	2.78-13	8.64-16	3.45-20	1.52-23	1.08-10	6.04-11
1.35-09	1.13-09	4.25-10	3.51-11	7.51-12	5.16-16	1.24-19		
3.18-10	2.11-10	9.99-11	9.22-12	6.49-12	3.08-16	1.24-19	5.63-10	1.14-10

PHI 90 TO 135 DEGREES

9.27-10	6.51-10	5.29-10	3.75-11	1.04-12	1.53-17	6.02-29	1.59-09	4.26-10
8.99-10	6.66-10	1.80-10	2.37-10	2.01-12	8.06-18	5.73-27	8.90-10	5.61-10
5.79-10	5.32-10	7.91-10	1.09-10	1.09-12	2.06-17	2.94-24	2.20-10	4.48-11
1.01-09	7.74-10	3.93-10	2.17-11	7.30-13	8.92-17	4.23-30	1.88-10	7.09-11
6.05-10	2.90-10	3.10-10	1.49-11	5.41-13	1.35-18	7.37-27	4.32-11	1.02-11
8.37-10	2.09-10	1.70-10	2.66-11	5.95-14	2.81-16	7.01-30	6.63-11	2.30-11
7.83-10	1.16-09	3.22-10	1.93-11	4.66-13	1.46-17	5.77-25	1.01-10	3.77-11
8.86-11	2.98-10	3.69-10	6.62-12	2.21-13	1.30-16	9.34-25	4.71-11	1.56-11
3.95-10	5.27-10	3.17-11	1.27-11	1.81-12	1.89-16	1.67-25	6.79-11	3.21-11
2.98-10	2.48-11	2.32-10	1.94-11	6.84-15	2.14-19	1.90-32	2.28-11	1.23-11
1.30-09	1.19-09	7.08-10	9.83-11	1.57-12	1.58-16	1.25-24		
2.55-10	3.83-10	2.01-10	4.61-11	5.36-13	6.77-17	7.27-25	4.48-10	1.26-10

PHI 135 TO 180 DEGREES

5.49-09	3.72-10	2.60-09	4.52-11	4.75-13	1.18-15	8.68-22	1.78-09	3.21-10
2.30-09	4.60-09	1.92-09	2.27-11	6.28-12	2.19-15	2.76-22	4.46-10	1.03-10
1.09-09	5.22-10	2.67-10	3.09-10	2.10-12	1.60-15	2.72-23	2.38-10	5.07-11
9.52-10	1.04-09	1.54-10	3.06-11	6.01-13	6.84-16	3.66-25	1.59-10	3.40-11
4.28-09	3.76-10	9.95-11	1.07-10	1.58-12	2.99-17	4.68-25	2.36-10	1.06-10
6.21-10	2.77-10	1.91-10	5.70-12	5.39-14	4.92-14	3.63-25	5.50-11	1.70-11
1.80-09	7.18-10	2.63-10	9.70-12	8.13-13	2.57-17	1.32-26	2.64-10	1.99-10
5.94-10	1.23-09	3.58-10	7.24-11	1.02-13	4.93-18	6.97-23	5.22-11	1.81-11
1.74-09	7.02-10	2.19-10	2.35-11	3.14-14	4.52-18	8.17-24	3.07-10	2.48-10
3.43-10	9.98-11	1.28-09	7.43-11	4.81-13	8.35-20	1.07-31	4.99-11	2.17-11
3.25-09	2.10-09	9.57-10	1.49-10	2.48-12	9.65-15	1.28-22		
9.76-10	7.37-10	4.68-10	7.09-11	1.20-12	8.62-15	7.45-23	5.09-10	8.91-11
							4.96-09	3.62-10