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MATRIX METHODS FOR SOLVING FIELD PROBLEMS

Volume II - Computations for Linear Wire Antennas and Scatterers

Roger F. Harrington
Joseph Mautz

Syracuse University

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MATRIX METHODS FOR SOLVING FIELD PROBLEMS
Volume II – Computations for Linear Wire Antennas and Scatterers

Roger F. Harrington
Joseph Mautz

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FOREWORD

This report was prepared by Syracuse University, Electrical Engineering Department, Syracuse, New York under Contract No. AF30(602)-3724, Project No. 4519, Task No. 451901, covering the period March 1965 through March 1966.

RADC Project Engineer was John J. Patti (EMCRR).

This technical report has been reviewed and is approved.

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Project Engineer

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ABSTRACT

This report gives general computer programs and tables of computations for linear wire antennas and scatterers with arbitrary excitations and loads. The parameters calculated include the input impedance of wire antennas with sources at arbitrary points along the wire, input impedance of loaded wire antennas, mutual admittance between collinear antennas, monostatic and bistatic scattering from linear wires both loaded and unloaded, and general admittance parameters for loaded wire scatterers. The computations are for wires of length-to-diameter ratios ranging from 10 to 2000, and for length-to-wavelength ratios from 0.05 to 2.10 in increments of 0.05.

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COMPUTATIONS FOR LINEAR WIRE ANTENNAS AND SCATTERERS

I. Introduction. This report gives representative computations and general computer programs for linear wire antennas and scatterers with arbitrary excitations and loads. These computations and programs were done under Contract AF 30(602)-3724 during the period March 26, 1965 to March 25, 1966. The general theory and development of appropriate formulas are given in the Final Technical Report for the above contract.¹ Curves of some of the calculations are given in Chapter IV of that report. All computations were made with 32 subdivisions along the wire.

II. Explanation of Tables. The tables included in this report are arranged in sets according to the length-to-diameter ratios $L/2A$ of the wires considered, as follows:

Set	I	II	III	IV	V	VI	VII	VIII
$L/2A$	10	20	40	100	200	400	1000	2000

Within each set computed results are given for length-to-wavelength ratios L/λ from 0.05 to 2.10 in increments of 0.05. The following parameters are tabulated:

Table A - Input admittances and impedances for center-fed linear antennas.

Table B - Input admittances and impedances for linear antennas fed $L/8$ off center.

Table C - Input admittances and impedances for linear antennas fed $L/4$ off center.

Table D - Input admittances and impedances for linear antennas
fed $3L/8$ off center.

Table E - Input admittances and impedances for linear antennas
fed $L/4$ off center, with an open circuit at the center.

Table F - Input admittances and impedances for linear antennas
fed $L/4$ off center, and a load

$$Y = \frac{\cot(kL/4)}{j600}$$

at the center. This load corresponds to a shorted transmission line stub with characteristic impedance 600 ohms.

Table G - Same as Table F but with 300 ohms characteristic impedance.

Table H - Same as Table F but with 100 ohms characteristic impedance.

Table I - Input admittances and impedances for linear antennas
with a ground plane at the center, and fed $L/4$ from one
end of the antenna. This corresponds to a center-fed
monopole of length $L/2$ normal to ground plane.

Table J - Transfer admittances for linear antennas, fed $L/4$ off
center, open circuit at center, and measured $L/4$ on other
side of center. This corresponds to the mutual admittance
between collinear antennas of length $L/2$.

Table K - (3 pages) These are monostatic and bistatic radar cross
sections S , for linear wires excited by plane waves
incident at angle θ_i (from wire axis), and received at
angle θ_r (from wire axis), as follows:

S	θ_i	θ_r
S(A)	90°	90°
S(B)	90°	75°
S(C)	90°	60°
S(D)	90°	45°
S(E)	90°	30°
S(F)	90°	15°
S(G)	75°	75°
S(H)	60°	90°
S(I)	60°	75°
S(J)	60°	60°
S(K)	60°	45°
S(L)	60°	30°
S(M)	60°	15°
S(N)	45°	45°
S(O)	30°	90°
S(P)	30°	75°
S(Q)	30°	60°
S(R)	30°	45°
S(S)	30°	30°
S(T)	30°	15°
S(U)	15°	15°

Table L - Echo areas for center-loaded wires, broadside incident plane wave, for the following loads Y_L :

- S(A) - Y_L continually tuned to resonance
- S(B) - Y_L an inductor tuned to resonance at $L/\lambda = 0.25$
- S(C) - Y_L an inductor tuned to resonance at $L/\lambda = 0.35$
- S(D) - $Y_L = 0$, an open circuit
- S(E) - Y_L a capacitor tuned to resonance at $L/\lambda = 0.55$
- S(F) - Y_L a capacitor tuned to resonance at $L/\lambda = 0.65$
- S(G) - Y_L a conjugate complex match, corresponding to an antenna with matched load
- S(H) - $Y_L = 1/75$
- S(I) - $Y_L = 1/300$

Table M - Primed admittance parameters for the echo area of a center-loaded wire scatterer. In terms of these parameters, the echo area σ is given by²

$$\sigma = 16\pi \eta^2 \lambda^2 \left| DY_{11} = \frac{Y_{12}^2}{Y_{22} + Y_L} \right|^2$$

where $\eta = \sqrt{\mu/\epsilon} = 120 \pi$

Y_{22} = input admittance of scatterer when fed as an antenna

Y_L = load admittance

DY_{11} and Y_{12} given in Table M

III. Instructions for Computer Programs. The computations were performed in two parts. The first program calculates the n by n admittance matrix Y whose elements Y_{ij} characterize the object according to the concepts of Chapter II of the Final Technical Report.¹ In addition, because of the wire nature of the object, the elements Y_{ij} are also equal to the current on wire segment i due to a unit voltage source impressed on segment j . The second program uses the Y matrix to calculate various parameters, such as impedances, currents, gains, echo areas, etc., according to the formulas of Chapter III of the Final Technical Report.¹ The programs are written in FORTRAN II, and were run on the IBM 7074 computer at Syracuse University.

A) Program No. 1. This program is given in its entirety in Appendix A. Its output consists of the matrix Y recorded on a tape. Here each matrix Y is preceded by Y^{-1} . The $(Y_{ij})^{-1}$ depends only on $|i-j|$ so Y^{-1} has only n distinct elements. Program No. 1 also prints out a 15×8 array which is a skeleton of Y . The j^{th} column of this 15×8 array represents the current function due to a one-volt impulse at position j . When the antenna is 16 units long, the subscripts of the 15×8 array become the actual distance from one end of the antenna.

For each matrix Y to be calculated, there is a data card. This data card has format (2E15.8, 4I3). The first data word is the length of the antenna divided by its diameter. The second word is the length of the antenna divided by the wavelength. The third data word is the dimension n of Y . The fourth word is the length of the antenna in number of coarse intervals. There are three interval lengths in the course of the computation. These are:

- 1) The basic interval - this is the length indicated by a unit difference in subscripts of Y. The antenna was scaled for a basic interval length of one meter.
- 2) The coarse interval - an integral number of coarse intervals unite to form a basic interval. The coarse interval is related to the coarse sampling of the e^{-jkr}/r type function.
- 3) The fine interval - an integral number of fine intervals unite to form a coarse interval. The fine intervals are designed for sampling the e^{-jkr}/r type function near $r = 0$.

The fifth word is the number of coarse intervals that will be subdivided into fine intervals. The sixth word is the length of a coarse interval divided by the length of a fine interval.

Program No. 1 punches a card for each matrix Y. There is one data word on each card, which is the input susceptance at the center of the antenna. Some of these susceptances are fed into Program No. 2. The susceptances appear in the print out of Program No. 1 but not with the desired eight significant figures. The susceptances are also on the tape, but they are scattered so that it is inefficient to read them from the tape. For instance, a susceptance from the eleventh Y matrix may be needed during a computation involving the first Y matrix. The only way to get this susceptance is to search through the nine intervening matrices.

B) Program No. 2. This program accepts the Y matrices from the output tape of Program No. 1. Program No. 2 also uses a scratch tape for storage within the program itself.

The first six data cards for Program No. 2 have format (3E15.8, 3I3/(E15.8)). The first word is π . The second is $L/2A$, the length to

diameter ratio of the antenna. The third is a variable AP such that extra calculations and print out will be performed whenever $(AP)(L/\lambda)$ is an integer. The fourth word is n, the dimension of the matrix Y. The fifth and sixth variables are LA and LB respectively. The LA and LB are such that the following ratios of length to wavelength are expected:

$$\frac{L}{\lambda} = .05 LA, .05(LA+1), \dots, .05(LB-1), .05(LB)$$

The remaining five data words are on five separate cards. They are the input susceptance of the center driven antenna for $L/\lambda = 0.25$ and 0.35 , the data word zero, and the input susceptances of the center driven antenna for $L/\lambda = 0.55$ and 0.65 , in that order.

The remaining data for Program No. 2 is for print out under the A format. This data, included in the deck, remains invariant.

C) Description of Print Out. Program No. 2 operates on the Y matrix for a given $L/2A$ for each value of L/λ from 0.05 to 2.10 in steps of 0.05 . Whenever L/λ is such that $(AP)(L/\lambda)$ is an integer, print outs numbers IV, II, III, and VII occur for that L/λ . Other print outs occur at the very end of the program and are tabulated vs. L/λ . The print out will be explained in the order that they occur in the program.

- 1) Print Out IV. The real and imaginary parts of the current I are printed, along with the angle and magnitude of I for an incident field of one volt per wavelength. The angle of incidence is the angle that the propagation vector makes with the negative x axis. The electric field, being that of a plane wave, is perpendicular to the propagation vector

and lies in the plane defined by x and the propagation vector. The phase of the incident field is equal to zero at the center of the scatterer.

Next, a variation of the previous data is printed. The incident field is increased, if necessary, so that its z component has magnitude one. The magnitude, real part, and imaginary part of the current is printed in three separate tables.

- 2) Print Out II. Tables A, B, C, D give the electric currents due to a unit impulse of voltage located at the center, $L/8$ off-center, $L/4$ off-center and $3L/8$ off-center, respectively. The off-center source occurs on the lower half of the antenna. In Tables E through H the unit impulse of voltage is located $L/4$ from the center. Tables E through H have an open circuit, a shorted quarter-wave stub of 600-ohm, 300-ohm, and 100-ohm transmission line, respectively, as a concentrated load at the center. Table I is equivalent to having two sources $L/4$ off-center, one on each side of center.
- 3) Print Out III. These tables are the power gain patterns for the antennas of Print Out II. Here θ is the angle between the radius vector from the antenna and the positive axis of the antenna. Cases A through I are for the same feeds and loads as in Print Out II.
- 4) Print Out VII. This print out differs from the previous Print Out III only in the method of excitation. The antenna is driven by an incident plane wave field coming from the

direction indicated by ANG. This plane wave acts like several impulsive voltage sources, the strength of each being an integral of the product of the z component of the incident electric field with one of the triangular expansion functions.

- 5) Print Out I. For the same feeds and loads A through I of Print Out II, the input admittances and impedances are tabulated vs. L/λ . This print out corresponds to Tables A through J of this report, described in Section II.
- 6) Print Out V. This is a tabulation of the radar cross section of a linear wire, both monostatic and bistatic, for various angles of incidence and scatter. It corresponds to Table K of this report, described in Section II.
- 7) Print Out VI. This is the monostatic radar cross section for a center-loaded wire scatterer due to a plane wave at broad-side incidence. It corresponds to Table L of this report, described in Section II.
- 8) Print Out VIII. This is a tabulation of the primed admittance parameters needed to calculate the radar cross section of a center-loaded wire scatterer. It corresponds to Table M of this report, described in Section II.

IV. References.

1. RADC-TR-66-351, "Matrix Methods for Solving Field Problems",
Volume I, "Matrix Techniques and Applications", Final Technical Report for
Contract AF30(602)-3724, with Syracuse University, Syracuse, N. Y., sponsored
by Rome Air Development Center, Griffiss Air Force Base, N. Y., March, 1966.

2. R. F. Harrington, "Theory of Loaded Scatterers", Proc. IEE (London),
Vol. 111, No. 4, April, 1964, pp. 617-623.

Set I ($L/2A = 10$) Table A

I INPUT ADMITTANCES (MILLIMHOS) AND IMPEDANCES (KILO-OHMS)									
A) SOURCE AT CENTER									
$L/(\lambda BDA)$	G	B	MAG Y	A:G Y	R	X	MAG Z	ANG Z	ANG Z
0.05	0.0004	1.2530	1.2530	90.0	0.0002	-0.7981	0.7981	-90.0	
0.10	0.0062	2.5643	2.5643	89.9	0.0009	-0.3900	0.3900	-89.9	
0.15	0.0369	4.0094	4.0096	89.5	0.0023	-0.2494	0.2494	-89.5	
0.20	0.1486	5.7070	5.7089	88.5	0.0046	-0.1751	0.1752	-88.5	
0.25	0.5128	7.8639	7.8806	86.3	0.0083	-0.1266	0.1269	-86.3	
0.30	1.7144	10.8001	10.9353	81.0	0.0143	-0.0903	0.0914	-81.0	
0.35	5.7475	14.1900	15.3098	68.0	0.0245	-0.0605	0.0653	-68.0	
0.40	13.7894	11.8452	18.1785	40.7	0.0417	-0.0358	0.0550	-40.7	
0.45	13.2946	3.8273	13.8346	16.1	0.0695	-0.0200	0.0723	-16.1	
0.50	8.9967	2.0860	9.2353	13.1	0.1055	-0.0245	0.1083	-13.1	
0.55	6.4841	2.8476	7.0818	23.7	0.1293	-0.0568	0.1412	-23.7	
0.60	5.1325	4.0097	6.5131	38.0	0.1210	-0.0945	0.1535	-38.0	
0.65	4.3523	5.1765	6.7630	49.9	0.0952	-0.1132	0.1479	-49.9	
0.70	3.8721	6.2938	7.3895	58.4	0.0709	-0.1153	0.1353	-58.4	
0.75	3.5657	7.3706	8.1878	64.2	0.0532	-0.1099	0.1221	-64.2	
0.80	3.3712	8.4267	9.0760	68.2	0.0409	-0.1023	0.1102	-68.2	
0.85	3.2577	9.4827	10.0267	71.0	0.0324	-0.0943	0.0997	-71.0	
0.90	3.2131	10.5596	11.0376	73.1	0.0264	-0.0867	0.0906	-73.1	
0.95	3.2393	11.6793	12.1201	74.5	0.0221	-0.0795	0.0825	-74.5	
1.00	3.3538	12.8660	13.2960	75.4	0.0190	-0.0728	0.0752	-75.4	
1.05	3.5973	14.1451	14.5953	75.7	0.0169	-0.0664	0.0685	-75.7	
1.10	4.0487	15.5343	16.0533	75.4	0.0157	-0.0603	0.0623	-75.4	
1.15	4.8901	17.0137	17.6916	74.1	0.0155	-0.0544	0.0565	-74.1	
1.20	6.2203	18.4353	19.4564	71.4	0.0144	-0.0487	0.0514	-71.4	
1.25	8.3365	19.3389	21.0592	66.7	0.0188	-0.0436	0.0475	-66.7	
1.30	10.8253	18.9329	21.8092	60.2	0.0228	-0.0398	0.0459	-60.2	
1.35	12.3659	17.0628	21.0726	54.1	0.0278	-0.0384	0.0475	-54.1	
1.40	12.1521	15.0643	19.3547	51.1	0.0324	-0.0402	0.0517	-51.1	
1.45	10.9548	14.0526	17.8180	52.1	0.0345	-0.0443	0.0561	-52.1	
1.50	9.6777	13.9771	17.0005	55.3	0.0335	-0.0484	0.0588	-55.3	
1.55	8.6500	14.4444	16.8363	59.1	0.0305	-0.0510	0.0594	-59.1	
1.60	7.8950	15.1817	17.1118	62.5	0.0270	-0.0518	0.0584	-62.5	
1.65	7.3601	16.0520	17.6590	65.4	0.0236	-0.0515	0.0566	-65.4	
1.70	6.9935	16.9944	18.3771	67.6	0.0207	-0.0503	0.0544	-67.6	
1.75	6.7588	17.9849	19.2130	69.4	0.0183	-0.0487	0.0520	-69.4	
1.80	6.6353	19.0173	20.1417	70.8	0.0164	-0.0469	0.0496	-70.8	
1.85	6.6168	20.0936	21.1550	71.8	0.0148	-0.0449	0.0473	-71.8	
1.90	6.7105	21.2184	22.2543	72.5	0.0135	-0.0428	0.0449	-72.5	
1.95	6.9392	22.3945	23.4450	72.8	0.0126	-0.0407	0.0427	-72.8	
2.00	7.3441	23.6140	24.7297	72.1	0.0120	-0.0386	0.0404	-72.1	
2.05	7.9870	24.8423	26.0947	72.2	0.0117	-0.0365	0.0383	-72.2	
2.10	8.9397	25.9894	27.4839	71.0	0.0118	-0.0344	0.0364	-71.0	

Set I (L/2A = 10) Table B

8) SOURCE L/8 OFF CENTER L/(LAMBDA)	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0003	1.2232	1.2232	90.0	0.0002	-0.8176	0.8176	-90.0
0.10	0.0057	2.4996	2.4996	89.9	0.0009	-0.4001	0.4001	-89.9
0.15	0.0337	3.8982	3.8983	89.5	0.0022	-0.2565	0.2565	-89.5
0.20	0.1355	5.5263	5.5280	88.6	0.0044	-0.1808	0.1809	-88.6
0.25	0.4662	7.5702	7.5845	86.5	0.0081	-0.1316	0.1318	-86.5
0.30	1.5527	10.3152	10.4314	81.4	0.0143	-0.0948	0.0959	-81.4
0.35	5.1825	13.4592	14.4225	68.9	0.0249	-0.0647	0.0693	-68.9
0.40	12.3725	11.4469	16.8556	42.8	0.0435	-0.0403	0.0593	-42.8
0.45	11.8699	4.4204	12.6663	20.4	0.0740	-0.0276	0.0789	-20.4
0.50	8.0028	3.0783	8.5744	21.0	0.1089	-0.0419	0.1166	-21.0
0.55	5.7683	4.0113	7.0260	34.8	0.1169	-0.0813	0.1423	-34.8
0.60	4.6100	5.3558	7.0666	49.3	0.0923	-0.1073	0.1415	-49.3
0.65	4.0337	6.7860	7.8943	59.3	0.0647	-0.1089	0.1267	-59.3
0.70	3.8805	8.2804	9.1446	64.9	0.0464	-0.0990	0.1094	-64.9
0.75	4.2216	9.8174	10.6866	66.7	0.0370	-0.0860	0.0936	-66.7
0.80	5.2788	11.1082	12.2987	64.6	0.0349	-0.0734	0.0813	-64.6
0.85	6.8120	11.3356	13.2250	59.0	0.0389	-0.0648	0.0756	-59.0
0.90	7.4229	10.4681	12.8328	54.7	0.0451	-0.0636	0.0779	-54.7
0.95	6.8547	9.9913	12.1167	55.5	0.0467	-0.0681	0.0825	-55.5
1.00	6.0956	10.3000	11.9686	59.4	0.0426	-0.0719	0.0836	-59.4
1.05	5.5569	11.0344	12.3546	63.3	0.0364	-0.0723	0.0809	-63.3
1.10	5.2681	11.9504	13.0601	66.2	0.0309	-0.0701	0.0766	-66.2
1.15	5.2076	12.9370	13.9458	68.1	0.0268	-0.0665	0.0717	-68.1
1.20	5.3753	13.9126	14.9149	68.9	0.0242	-0.0625	0.0670	-68.9
1.25	5.7596	14.7508	15.8354	68.7	0.0230	-0.0588	0.0631	-68.7
1.30	6.2126	15.2911	16.5050	67.9	0.0228	-0.0561	0.0606	-67.9
1.35	6.4130	15.5841	16.8520	67.6	0.0226	-0.0549	0.0593	-67.6
1.40	6.2583	16.0015	17.1818	68.6	0.0212	-0.0542	0.0582	-68.6
1.45	6.0139	16.7710	17.8167	70.3	0.0189	-0.0528	0.0561	-70.3
1.50	5.9236	17.8376	18.7955	71.6	0.0168	-0.0505	0.0532	-71.6
1.55	6.1011	19.0903	20.0415	72.3	0.0152	-0.0475	0.0499	-72.3
1.60	6.6304	20.4319	21.4807	72.0	0.0144	-0.0443	0.0466	-72.0
1.65	7.6154	21.7194	23.0158	70.7	0.0144	-0.0410	0.0434	-70.7
1.70	9.1237	22.6685	24.4357	68.1	0.0153	-0.0380	0.0409	-68.1
1.75	10.9709	22.8451	25.3428	64.3	0.0171	-0.0356	0.0395	-64.3
1.80	12.5123	22.0133	25.3208	60.4	0.0195	-0.0343	0.0395	-60.4
1.85	13.0533	20.6443	24.4249	57.7	0.0219	-0.0346	0.0409	-57.7
1.90	12.6063	19.5634	23.2733	57.2	0.0233	-0.0361	0.0430	-57.2
1.95	11.7049	19.1495	22.4434	58.6	0.0232	-0.0380	0.0446	-58.6
2.00	10.7804	19.3195	22.1238	60.8	0.0220	-0.0395	0.0452	-60.8
2.05	10.0134	19.8746	22.2546	63.3	0.0202	-0.0401	0.0449	-63.3
2.10	9.4453	20.6613	22.7179	65.4	0.0183	-0.0400	0.0440	-65.4

CJ SOURCE $L/4$ OFF CENTER $L/(LAMBDA)$	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0002	1.1290	1.1290	90.0	0.0002	-0.8857	0.8857	-90.0
0.10	0.0042	2.2975	2.2975	89.9	0.0008	-0.4353	0.4353	-89.9
0.15	0.0249	3.5555	3.5556	89.6	0.0020	-0.2812	0.2812	-89.6
0.20	0.0993	4.9802	4.9812	88.9	0.0040	-0.2007	0.2008	-88.9
0.25	0.3384	6.7024	6.7110	87.1	0.0075	-0.1488	0.1490	-87.1
0.30	1.1143	8.9176	8.9869	82.9	0.0138	-0.1104	0.1113	-82.9
0.35	3.6690	11.3935	11.9697	72.2	0.0256	-0.0795	0.0835	-72.2
0.40	8.6279	10.2504	13.3982	49.9	0.0481	-0.0571	0.0746	-49.9
0.45	8.1538	5.7720	9.9900	35.5	0.0817	-0.0578	0.1001	-35.3
0.50	5.4360	5.3641	7.6370	44.6	0.0932	-0.0920	0.1309	-44.6
0.55	3.9208	6.5965	7.6737	59.5	0.0666	-0.1120	0.1303	-59.3
0.60	3.2235	8.2117	8.8217	68.6	0.0414	-0.1055	0.1134	-68.6
0.65	3.0640	10.0340	10.4914	73.0	0.0278	-0.0912	0.0953	-73.0
0.70	3.4835	12.0889	12.5808	73.9	0.0220	-0.0764	0.0795	-73.9
0.75	4.8514	14.2916	15.0925	71.2	0.0213	-0.0627	0.0663	-71.2
0.80	7.7703	15.8759	17.6754	63.9	0.0249	-0.0508	0.0566	-63.9
0.85	11.5965	14.8490	18.8406	52.0	0.0327	-0.0418	0.0531	-52.0
0.90	12.9315	11.2973	17.1713	41.1	0.0439	-0.0383	0.0582	-41.1
0.95	11.3530	8.8728	14.4089	38.0	0.0547	-0.0427	0.0694	-38.0
1.00	9.3281	8.4009	12.5534	42.0	0.0592	-0.0533	0.0797	-42.0
1.05	7.8033	8.9444	11.8699	48.9	0.0554	-0.0635	0.0842	-48.9
1.10	6.7950	9.9134	12.0186	55.6	0.0470	-0.0686	0.0832	-55.6
1.15	6.2041	11.0787	12.6976	60.8	0.0385	-0.0687	0.0788	-60.8
1.20	6.0049	12.3391	13.7227	64.0	0.0319	-0.0655	0.0729	-64.0
1.25	6.2444	13.5537	14.9230	65.5	0.0280	-0.0609	0.0670	-65.3
1.30	6.8822	14.4272	15.9847	64.5	0.0269	-0.0565	0.0626	-64.5
1.35	7.5260	14.7247	16.5366	62.9	0.0275	-0.0538	0.0605	-62.9
1.40	7.7328	14.7243	16.6314	62.5	0.0280	-0.0532	0.0601	-62.3
1.45	7.5604	14.8642	16.6765	63.0	0.0272	-0.0534	0.0600	-63.0
1.50	7.2764	15.2583	16.9045	64.5	0.0255	-0.0534	0.0592	-64.5
1.55	7.0310	15.8352	17.3260	66.1	0.0234	-0.0528	0.0577	-66.1
1.60	6.8682	16.5114	17.8829	67.4	0.0215	-0.0516	0.0559	-67.4
1.65	6.7852	17.2263	18.5145	68.5	0.0198	-0.0503	0.0540	-68.5
1.70	6.7539	17.9400	19.1693	69.4	0.0184	-0.0488	0.0522	-69.4
1.75	6.7232	18.6445	19.8197	70.2	0.0171	-0.0475	0.0505	-70.2
1.80	6.6486	19.3901	20.4983	71.1	0.0158	-0.0461	0.0488	-71.1
1.85	6.5574	20.2611	21.2958	72.1	0.0145	-0.0447	0.0470	-72.1
1.90	6.5444	21.2869	22.2702	72.9	0.0132	-0.0429	0.0449	-72.9
1.95	6.6904	22.4274	23.4041	73.4	0.0122	-0.0409	0.0427	-73.4
2.00	7.0410	23.6242	24.6511	73.4	0.0116	-0.0389	0.0406	-73.4
2.05	7.6337	24.8131	25.9608	72.9	0.0113	-0.0368	0.0385	-72.9
2.10	8.5038	25.8969	27.2574	71.8	0.0114	-0.0349	0.0367	-71.8

Set I ($L/2A = 10$) Table D

D)	SOURCE	3L/8	OFF CENTER	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
	L/(λ BDA)	G								
0.05	0.0001	0.9487	0.9487	90.0	0.0001	-1.0541	1.0541	-90.0		
0.10	0.0021	1.9172	1.9172	89.9	0.0006	-0.5216	0.5216	-89.9		
0.15	0.0125	2.9301	2.9302	89.8	0.0015	-0.3413	0.3413	-89.8		
0.20	0.0491	4.0242	4.0245	89.3	0.0030	-0.2485	0.2485	-89.3		
0.25	0.1649	5.2597	5.2623	88.2	0.0060	-0.1899	0.1900	-88.2		
0.30	0.5323	6.7221	6.7431	85.5	0.0117	-0.1478	0.1483	-85.5		
0.35	1.7121	8.2883	8.4633	78.3	0.0239	-0.1157	0.1182	-78.3		
0.40	3.9213	8.1915	9.0817	64.4	0.0475	-0.0993	0.1101	-64.4		
0.45	3.6099	6.7053	7.6152	61.7	0.0622	-0.1156	0.1313	-61.7		
0.50	2.3614	7.1450	7.5251	71.7	0.0417	-0.1262	0.1329	-71.7		
0.55	1.7073	8.3594	8.5320	78.5	0.0235	-0.1148	0.1172	-78.5		
0.60	1.4703	9.8017	9.9113	81.5	0.0150	-0.0998	0.1009	-81.5		
0.65	1.5591	11.4169	11.5229	82.2	0.0117	-0.0860	0.0868	-82.2		
0.70	2.0740	13.2277	13.3893	81.1	0.0116	-0.0738	0.0747	-81.1		
0.75	3.3390	15.1344	15.4984	77.6	0.0139	-0.0630	0.0645	-77.6		
0.80	5.8008	16.4671	17.4590	70.6	0.0190	-0.0540	0.0573	-70.6		
0.85	8.7896	15.5600	17.9580	60.7	0.0273	-0.0486	0.0557	-60.7		
0.90	9.5593	13.0618	16.1862	53.8	0.0365	-0.0499	0.0618	-53.8		
0.95	8.0725	11.6915	14.2076	55.4	0.0400	-0.0579	0.0704	-55.4		
1.00	6.4288	12.0427	13.6512	61.9	0.0345	-0.0646	0.0733	-61.9		
1.05	5.3685	13.2487	14.3414	68.0	0.0261	-0.0647	0.0697	-68.0		
1.10	4.9375	14.9936	15.7856	71.8	0.0198	-0.0602	0.0633	-71.8		
1.15	5.1748	16.9303	17.7035	73.0	0.0165	-0.0540	0.0565	-73.0		
1.20	6.2611	18.8906	19.9012	71.7	0.0158	-0.0477	0.0502	-71.7		
1.25	8.3943	20.3251	21.9903	67.6	0.0174	-0.0420	0.0455	-67.6		
1.30	11.1687	20.2547	23.1299	61.1	0.0209	-0.0379	0.0432	-61.1		
1.35	13.0037	18.3831	22.5175	54.7	0.0256	-0.0363	0.0444	-54.7		
1.40	12.8101	16.2493	20.6915	51.7	0.0299	-0.0380	0.0483	-51.7		
1.45	11.4192	15.2781	19.0740	53.2	0.0314	-0.0420	0.0524	-53.2		
1.50	9.9487	15.5140	18.4299	57.3	0.0293	-0.0457	0.0543	-57.3		
1.55	8.8908	16.5341	18.7729	61.7	0.0252	-0.0469	0.0533	-61.7		
1.60	8.4075	18.0057	19.8718	65.0	0.0213	-0.0456	0.0503	-65.0		
1.65	8.6124	19.6701	21.4730	66.4	0.0187	-0.0427	0.0466	-66.4		
1.70	9.6117	21.1762	23.2555	65.6	0.0178	-0.0392	0.0430	-65.6		
1.75	11.2910	21.9760	24.7069	62.8	0.0185	-0.0360	0.0405	-62.8		
1.80	12.9944	21.6254	25.2292	59.0	0.0204	-0.0340	0.0396	-59.0		
1.85	13.8243	20.4411	24.6770	55.9	0.0227	-0.0336	0.0405	-55.9		
1.90	13.5588	19.3261	23.6080	54.9	0.0243	-0.0347	0.0424	-54.9		
1.95	12.6742	18.8500	22.7147	56.1	0.0246	-0.0365	0.0440	-56.1		
2.00	11.6808	19.0549	22.3502	58.5	0.0234	-0.0381	0.0447	-58.5		
2.05	10.8699	19.7812	22.5710	61.2	0.0213	-0.0388	0.0443	-61.2		
2.10	10.3963	20.8537	23.3015	63.5	0.0191	-0.0384	0.0429	-63.5		

E) SOURCE $L/4$ OFF CENTER, $Y=0$ AT CENTER $L/(\lambda BDA)$	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0001	1.0033	1.0033	90.0	0.0001	-0.9967	0.9967	-90.0
0.10	0.0015	2.0232	2.0232	90.0	0.0004	-0.9943	0.9943	-90.0
0.15	0.0084	3.0779	3.0779	89.8	0.0009	-0.9924	0.9924	-89.8
0.20	0.0295	4.1899	4.1900	89.6	0.0017	-0.9907	0.9907	-89.6
0.25	0.0832	5.3882	5.3888	89.1	0.0029	-0.9885	0.9885	-89.1
0.30	0.2072	6.7097	6.7129	88.2	0.0046	-0.9859	0.9859	-88.2
0.35	0.4797	8.1952	8.2093	86.6	0.0071	-0.9824	0.9824	-86.6
0.40	1.0592	9.8579	9.9147	83.9	0.0108	-0.9780	0.9780	-83.9
0.45	2.2156	11.5592	11.7696	79.1	0.0160	-0.9728	0.9728	-79.1
0.50	4.1292	12.7441	13.3964	72.0	0.0230	-0.9668	0.9668	-72.0
0.55	6.1217	12.6604	14.0628	64.2	0.0310	-0.9598	0.9598	-64.2
0.60	6.9212	11.8707	13.7411	59.8	0.0367	-0.9518	0.9518	-59.8
0.65	6.7297	11.7803	13.5670	60.3	0.0366	-0.9428	0.9428	-60.3
0.70	6.6342	12.7354	14.3598	62.5	0.0322	-0.9328	0.9328	-62.5
0.75	7.4928	14.3526	16.1907	62.4	0.0286	-0.9218	0.9218	-62.4
0.80	10.0141	15.6100	18.5460	57.3	0.0291	-0.9098	0.9098	-57.3
0.85	13.5472	14.3780	19.7548	46.7	0.0347	-0.8968	0.8968	-46.7
0.90	14.6682	10.6741	18.1409	36.0	0.0446	-0.8828	0.8828	-36.0
0.95	12.9311	8.1135	15.2657	32.1	0.0555	-0.8678	0.8678	-32.1
1.00	10.7836	7.4979	13.1341	34.8	0.0625	-0.8518	0.8518	-34.8
1.05	9.1526	7.8709	12.0715	40.7	0.0628	-0.8348	0.8348	-40.7
1.10	8.0287	8.6237	11.7826	47.0	0.0578	-0.8168	0.8168	-47.0
1.15	7.2680	9.5121	11.9710	52.6	0.0507	-0.7978	0.7978	-52.6
1.20	6.7649	10.4449	12.4442	57.1	0.0437	-0.7778	0.7778	-57.1
1.25	6.4596	11.3821	13.0874	60.4	0.0377	-0.7568	0.7568	-60.4
1.30	6.3199	12.2914	13.8209	62.8	0.0331	-0.7348	0.7348	-62.8
1.35	6.3132	13.1300	14.5689	64.3	0.0297	-0.7118	0.7118	-64.3
1.40	6.3776	13.8602	15.2571	65.3	0.0274	-0.6878	0.6878	-65.3
1.45	6.4298	14.4939	15.8561	66.1	0.0256	-0.6628	0.6628	-66.1
1.50	6.4270	15.0971	16.4082	66.9	0.0239	-0.6368	0.6368	-66.9
1.55	6.3889	15.7270	16.9752	67.9	0.0222	-0.6098	0.6098	-67.9
1.60	6.3549	16.3955	17.5840	68.8	0.0206	-0.5818	0.5818	-68.8
1.65	6.3464	17.0830	18.2238	69.6	0.0191	-0.5528	0.5528	-69.6
1.70	6.3536	17.7630	18.8651	70.3	0.0179	-0.5228	0.5228	-70.3
1.75	6.3354	18.4304	19.4889	71.0	0.0167	-0.4918	0.4918	-71.0
1.80	6.2909	19.1356	20.1307	71.9	0.0154	-0.4598	0.4598	-71.9
1.85	6.1264	19.9623	20.8812	72.9	0.0141	-0.4268	0.4268	-72.9
1.90	6.0511	20.9405	21.7973	73.9	0.0127	-0.3928	0.3928	-73.9
1.95	6.0957	22.0338	22.8614	74.5	0.0117	-0.3578	0.3578	-74.5
2.00	6.2897	23.1946	24.0323	74.8	0.0109	-0.3218	0.3218	-74.8
2.05	6.6504	24.3861	25.2767	74.7	0.0104	-0.2848	0.2848	-74.7
2.10	7.1998	25.5680	26.5624	74.3	0.0102	-0.2468	0.2468	-74.3

Set I (L/2A = 10) Table F

F) SOURCE L/4 OFF CENTER, L/(LAMDA)	G	d	MAG Y	ANG Y	Y=(-J/600)CUI(KL/4)	MAG X	ANG X	MAG Z	ANG Z
0.05	0.0003	1.1369	1.1369	90.0	0.0002	-0.8796	-50.0	0.8796	-50.0
0.10	0.0054	2.3859	2.3859	89.9	0.0009	-0.4191	-89.9	0.4191	-89.9
0.15	0.0617	4.2078	4.2083	89.2	0.0055	-0.2376	-89.2	0.2376	-89.2
0.20	1.1425	-2.5424	2.7873	-65.8	0.1471	0.3272	65.8	0.3588	65.8
0.25	0.0012	4.0002	4.0002	90.0	0.0001	-0.2500	-90.0	0.2500	-90.0
0.30	0.0402	5.7124	5.7126	89.6	0.0012	-0.1750	-89.6	0.1751	-89.6
0.35	0.1790	7.2862	7.2884	88.6	0.0034	-0.1372	-88.6	0.1372	-88.6
0.40	0.5140	8.9765	8.9912	86.7	0.0064	-0.1110	-86.7	0.1112	-86.7
0.45	1.2621	10.8221	10.8955	83.3	0.0106	-0.0912	-83.3	0.0918	-83.3
0.50	2.7537	12.5661	12.8643	77.6	0.0166	-0.0777	-77.6	0.0777	-77.6
0.55	4.9530	13.4003	14.2864	69.7	0.0243	-0.0657	-69.7	0.0700	-69.7
0.60	6.6225	12.9060	14.5059	62.8	0.0315	-0.0613	-62.8	0.0689	-62.8
0.65	6.9450	12.4350	14.2429	60.8	0.0342	-0.0613	-60.8	0.0702	-60.8
0.70	6.9130	13.0345	14.7543	62.1	0.0318	-0.0599	-62.1	0.0678	-62.1
0.75	7.7026	14.4709	16.3932	62.0	0.0287	-0.0538	-62.0	0.0610	-62.0
0.80	10.1509	15.6503	18.6540	57.0	0.0292	-0.0450	-57.0	0.0536	-57.0
0.85	13.6299	14.3869	19.8181	46.5	0.0347	-0.0366	-46.5	0.0505	-46.5
0.90	14.7133	10.6722	18.1763	36.0	0.0445	-0.0323	-36.0	0.0550	-36.0
0.95	12.9499	8.1102	15.2799	32.1	0.0555	-0.0347	-32.1	0.0654	-32.1
1.00	10.7836	7.4979	13.1341	34.8	0.0625	-0.0435	-34.8	0.0761	-34.8
1.05	9.1386	7.8772	12.0650	40.8	0.0628	-0.0541	-40.8	0.0829	-40.8
1.10	8.0042	8.6390	11.7771	47.2	0.0577	-0.0623	-47.2	0.0849	-47.2
1.15	7.2360	9.5392	11.9731	52.8	0.0505	-0.0665	-52.8	0.0835	-52.8
1.20	6.7293	10.4873	12.4606	57.3	0.0433	-0.0675	-57.3	0.0803	-57.3
1.25	6.4267	11.4433	13.1245	60.7	0.0373	-0.0664	-60.7	0.0762	-60.7
1.30	6.2998	12.3721	13.8837	63.0	0.0327	-0.0642	-63.0	0.0720	-63.0
1.35	6.3180	13.2233	14.6551	64.5	0.0294	-0.0616	-64.5	0.0682	-64.5
1.40	6.4115	13.9498	15.3527	65.3	0.0272	-0.0592	-65.3	0.0651	-65.3
1.45	6.4830	14.5657	15.9433	66.0	0.0255	-0.0573	-66.0	0.0627	-66.0
1.50	6.4848	15.1501	16.4796	66.8	0.0239	-0.0558	-66.8	0.0607	-66.8
1.55	6.4434	15.7086	17.0343	67.8	0.0222	-0.0543	-67.8	0.0587	-67.8
1.60	6.4052	16.4334	17.6375	68.7	0.0206	-0.0528	-68.7	0.0567	-68.7
1.65	6.3944	17.1226	18.2777	69.5	0.0191	-0.0513	-69.5	0.0547	-69.5
1.70	6.4025	17.8085	18.9244	70.2	0.0179	-0.0497	-70.2	0.0528	-70.2
1.75	6.3892	18.4861	19.5591	70.9	0.0167	-0.0483	-70.9	0.0511	-70.9
1.80	6.3157	19.2075	20.2191	71.8	0.0154	-0.0470	-71.8	0.0495	-71.8
1.85	6.2131	20.0602	21.0004	72.8	0.0141	-0.0455	-72.8	0.0476	-72.8
1.90	6.1844	21.0835	21.9719	73.7	0.0128	-0.0437	-73.7	0.0455	-73.7
1.95	6.3479	22.2652	23.1525	74.1	0.0118	-0.0415	-74.1	0.0432	-74.1
2.00	6.2897	23.1946	24.0523	74.8	0.0109	-0.0402	-74.8	0.0416	-74.8
2.05	6.5974	21.8035	22.7797	73.2	0.0127	-0.0420	-73.2	0.0439	-73.2
2.10	6.6318	25.0159	25.8800	75.2	0.0099	-0.0373	-75.2	0.0386	-75.2

Set I ($L/2A = 10$) Table G

G) SOURCE $L/4$ OFF CENTER, $L/(\lambda BDA)$	C	B	$Y = (-J/300) \text{CUT}(KL/4)$		R	AT CENTER		MAG Z	ANG Z
			MAG Y	ANG Y		X	Y		
0.05	0.0002	1.1329	1.1329	90.0	0.0002	-0.8827	0.8827	0.8827	-90.0
0.10	0.0047	2.3355	2.3355	89.9	0.0009	-0.4282	0.4282	0.4282	-89.9
0.15	0.0341	3.7493	3.7495	89.5	0.0024	-0.2667	0.2667	0.2667	-89.5
0.20	0.2447	5.9639	5.9689	87.7	0.0069	-0.1674	0.1675	0.1675	-87.7
0.25	19.6374	8.3785	21.3501	23.1	0.0431	-0.0184	0.0468	0.0468	-23.1
0.30	0.1832	3.3078	3.3129	86.8	0.0167	-0.3014	0.3019	0.3019	-86.8
0.35	0.0070	5.8966	5.8966	89.9	0.0002	-0.1696	0.1696	0.1696	-89.9
0.40	0.1236	7.8321	7.8331	89.1	0.0020	-0.1277	0.1277	0.1277	-89.1
0.45	0.5266	9.8064	9.8205	86.9	0.0055	-0.1017	0.1018	0.1018	-86.9
0.50	1.5122	11.8971	11.9928	82.8	0.0105	-0.0827	0.0834	0.0834	-82.8
0.55	3.4593	13.6271	14.0593	75.8	0.0175	-0.0689	0.0711	0.0711	-75.8
0.60	5.8381	13.9506	15.1229	67.3	0.0255	-0.0610	0.0661	0.0661	-67.3
0.65	7.0058	13.3019	15.0341	62.2	0.0310	-0.0589	0.0665	0.0665	-62.2
0.70	7.1975	13.4490	15.2538	61.8	0.0309	-0.0578	0.0656	0.0656	-61.8
0.75	7.9362	14.6306	16.6444	61.5	0.0286	-0.0528	0.0601	0.0601	-61.5
0.80	10.3022	15.7031	18.7809	56.7	0.0292	-0.0445	0.0532	0.0532	-56.7
0.85	13.7191	14.3990	19.8883	46.4	0.0347	-0.0364	0.0503	0.0503	-46.4
0.90	14.7606	10.6709	18.2138	35.9	0.0445	-0.0322	0.0549	0.0549	-35.9
0.95	12.9692	8.1069	15.2945	32.0	0.0554	-0.0347	0.0654	0.0654	-32.0
1.00	10.7836	7.4979	13.1341	34.8	0.0625	-0.0435	0.0761	0.0761	-34.8
1.05	9.1249	7.8835	12.0588	40.8	0.0628	-0.0542	0.0829	0.0829	-40.8
1.10	7.9806	8.6540	11.7720	47.3	0.0576	-0.0624	0.0849	0.0849	-47.3
1.15	7.2056	9.5655	11.9758	53.0	0.0502	-0.0667	0.0835	0.0835	-53.0
1.20	6.6962	10.5281	12.4772	57.5	0.0430	-0.0676	0.0801	0.0801	-57.5
1.25	6.3972	11.5017	13.1610	60.9	0.0369	-0.0664	0.0760	0.0760	-60.9
1.30	6.2838	12.4483	13.9444	63.2	0.0323	-0.0640	0.0717	0.0717	-63.2
1.35	6.3269	13.3093	14.7366	64.6	0.0291	-0.0613	0.0679	0.0679	-64.6
1.40	6.4481	14.0288	15.4397	65.3	0.0270	-0.0588	0.0648	0.0648	-65.3
1.45	6.5355	14.6248	16.0186	65.9	0.0255	-0.0570	0.0624	0.0624	-65.9
1.50	6.5384	15.1905	16.5378	66.7	0.0239	-0.0555	0.0605	0.0605	-66.7
1.55	6.4918	15.7985	17.0803	67.7	0.0223	-0.0542	0.0585	0.0585	-67.7
1.60	6.4484	16.4597	17.6778	68.6	0.0206	-0.0527	0.0566	0.0566	-68.6
1.65	6.4347	17.1495	18.3170	69.4	0.0192	-0.0511	0.0546	0.0546	-69.4
1.70	6.4424	17.8386	18.9663	70.1	0.0179	-0.0496	0.0527	0.0527	-70.1
1.75	6.4316	18.5216	19.6065	70.9	0.0167	-0.0482	0.0510	0.0510	-70.9
1.80	6.3642	19.2505	20.2752	71.7	0.0155	-0.0468	0.0493	0.0493	-71.7
1.85	6.2732	20.1130	21.0686	72.7	0.0141	-0.0453	0.0475	0.0475	-72.7
1.90	6.2640	21.1468	22.0550	73.5	0.0129	-0.0435	0.0453	0.0453	-73.5
1.95	6.4530	22.3295	23.2433	73.9	0.0119	-0.0413	0.0430	0.0430	-73.9
2.00	6.2897	23.1946	24.0323	74.8	0.0109	-0.0402	0.0416	0.0416	-74.8
2.05	9.0089	24.3431	25.9566	69.7	0.0134	-0.0361	0.0385	0.0385	-69.7
2.10	6.4928	22.8892	23.7922	74.2	0.0115	-0.0404	0.0420	0.0420	-74.2

Set I ($L/2A = 10$) Table H

H) SOURCE L/4 OFF CENTER, L/(λBDA)	B	MAG Y	ANG Y	μ	X	MAG Z	ANG Z
0.05	0.0002	1.1303	90.0	0.0002	-0.8847	0.8847	-90.0
0.10	0.0044	2.3091	89.9	0.0008	-0.4331	0.4331	-89.9
0.15	0.0272	3.6064	89.6	0.0021	-0.2773	0.2773	-89.6
0.20	0.1209	5.1595	88.7	0.0045	-0.1937	0.1938	-88.7
0.25	0.5226	7.3235	85.9	0.0097	-0.1359	0.1362	-85.9
0.30	3.0699	11.4813	74.5	0.0233	-0.0839	0.0871	-74.5
0.35	11.4142	31.896	15.6	0.0813	-0.0227	0.0844	-15.6
0.40	2.4747	3.5179	45.3	0.2000	-0.2020	0.2843	-45.3
0.45	0.7382	5.4537	82.3	0.0244	-0.1801	0.1817	-82.3
0.50	0.2249	7.8604	88.4	0.0036	-0.1272	0.1272	-88.4
0.55	0.1740	10.3387	89.0	0.0016	-0.0967	0.0967	-89.0
0.60	0.8600	13.2882	86.3	0.0049	-0.0751	0.0753	-86.3
0.65	3.3062	16.1932	78.5	0.0121	-0.0593	0.0605	-78.5
0.70	7.0290	18.1736	67.2	0.0213	-0.0507	0.0550	-67.2
0.75	8.9805	18.4126	60.8	0.0265	-0.0474	0.0543	-60.8
0.80	11.0792	19.5740	55.5	0.0289	-0.0421	0.0511	-55.5
0.85	14.1536	20.2607	45.7	0.0345	-0.0353	0.0494	-45.7
0.90	14.9747	18.3895	35.5	0.0443	-0.0316	0.0544	-35.5
0.95	13.0508	15.3571	31.8	0.0553	-0.0343	0.0651	-31.8
1.00	10.7836	13.1341	34.8	0.0625	-0.0435	0.0761	-34.8
1.05	9.0725	12.0354	41.1	0.0626	-0.0546	0.0831	-41.1
1.10	7.8939	11.7558	47.8	0.0571	-0.0630	0.0851	-47.8
1.15	7.0986	11.9906	53.7	0.0494	-0.0672	0.0834	-53.7
1.20	6.5844	12.5440	58.3	0.0418	-0.0679	0.0797	-58.3
1.25	6.3051	13.2999	61.7	0.0356	-0.0662	0.0752	-61.7
1.30	6.2494	14.1656	63.8	0.0311	-0.0634	0.0706	-63.8
1.35	6.3878	15.0174	64.8	0.0283	-0.0603	0.0666	-64.8
1.40	6.5997	15.7152	65.2	0.0267	-0.0577	0.0636	-65.2
1.45	6.7209	16.2319	65.5	0.0255	-0.0561	0.0616	-65.5
1.50	6.7083	16.6858	66.3	0.0241	-0.0549	0.0599	-66.3
1.55	6.6336	17.1881	67.3	0.0225	-0.0537	0.0582	-67.3
1.60	6.5681	17.7673	68.3	0.0208	-0.0523	0.0563	-68.3
1.65	6.5411	18.4014	69.2	0.0193	-0.0508	0.0543	-69.2
1.70	6.5431	19.0528	69.9	0.0180	-0.0493	0.0525	-69.9
1.75	6.5329	19.6996	70.6	0.0168	-0.0479	0.0508	-70.6
1.80	6.4718	20.3774	71.5	0.0156	-0.0465	0.0491	-71.5
1.85	6.3925	21.1801	72.4	0.0143	-0.0450	0.0472	-72.4
1.90	6.3975	22.1704	73.2	0.0130	-0.0432	0.0451	-73.2
1.95	6.5847	23.3393	73.6	0.0121	-0.0411	0.0428	-73.6
2.00	6.2897	24.0323	74.8	0.0109	-0.0402	0.0416	-74.8
2.05	7.9064	26.0477	72.3	0.0117	-0.0366	0.0384	-72.3
2.10	9.4219	27.2715	69.8	0.0127	-0.0344	0.0367	-69.8

Set I ($L/2A = 10$) Table I

1) SOURCE $L/4$ OFF CENTER, GROUND PLANE AT CENTER	$L/(\lambda BDA)$	C	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0005	1.3472	1.3472	90.0	90.0	0.0003	-0.7423	0.7423	-50.0
0.10	0.0084	2.7669	2.7669	89.8	89.8	0.0011	-0.3614	0.3614	-89.8
0.15	0.0497	4.3527	4.3530	89.3	89.3	0.0026	-0.2297	0.2297	-89.3
0.20	0.1981	6.2508	6.2539	88.2	88.2	0.0051	-0.1598	0.1599	-88.2
0.25	0.6751	8.7135	8.7396	85.6	85.6	0.0088	-0.1141	0.1144	-85.6
0.30	2.2235	12.1194	12.3217	79.6	79.6	0.0146	-0.0798	0.0812	-79.6
0.35	7.3244	15.9879	17.5858	65.4	65.4	0.0237	-0.0517	0.0569	-65.4
0.40	17.2228	12.5376	21.3030	36.1	36.1	0.0380	-0.0276	0.0469	-36.1
0.45	16.2334	2.3052	16.3963	8.1	8.1	0.0604	-0.0086	0.0610	-8.1
0.50	10.7131	0.0585	10.7132	0.3	0.3	0.0933	-0.0005	0.0933	-0.3
0.55	7.5109	0.8730	7.5615	6.6	6.6	0.1314	-0.0153	0.1322	-6.6
0.60	5.7684	2.1417	6.1532	20.4	20.4	0.1524	-0.0566	0.1625	-20.4
0.65	4.7327	3.3897	5.8214	35.6	35.6	0.1497	-0.1000	0.1718	-35.6
0.70	4.0609	4.5573	6.1041	48.3	48.3	0.1090	-0.1223	0.1638	-48.3
0.75	3.5932	5.6579	6.7025	57.6	57.6	0.0800	-0.1259	0.1492	-57.6
0.80	3.2491	6.7151	7.4599	64.2	64.2	0.0584	-0.1207	0.1341	-64.2
0.85	2.9851	7.7521	8.3069	68.9	68.9	0.0433	-0.1123	0.1204	-68.9
0.90	2.7777	8.7905	9.2189	72.5	72.5	0.0327	-0.1034	0.1085	-72.5
0.95	2.6160	9.8530	10.1943	75.1	75.1	0.0252	-0.0948	0.0981	-75.1
1.00	2.5000	10.9650	11.2464	77.2	77.2	0.0198	-0.0867	0.0839	-77.2
1.05	2.4447	12.1577	12.4010	78.6	78.6	0.0159	-0.0791	0.0806	-78.6
1.10	2.4903	13.4673	13.6956	79.5	79.5	0.0133	-0.0718	0.0730	-79.5
1.15	2.7255	14.9254	15.1722	79.7	79.7	0.0118	-0.0648	0.0659	-79.7
1.20	3.3209	16.5093	16.8400	78.6	78.6	0.0117	-0.0582	0.0594	-78.6
1.25	4.5119	18.0015	18.5583	75.9	75.9	0.0131	-0.0523	0.0539	-75.9
1.30	6.3052	18.8325	19.8600	71.5	71.5	0.0160	-0.0477	0.0504	-71.5
1.35	7.9703	18.5373	20.1781	66.7	66.7	0.0196	-0.0455	0.0496	-66.7
1.40	8.6552	17.6718	19.6775	63.9	63.9	0.0224	-0.0456	0.0508	-63.9
1.45	8.4962	17.1117	19.1049	63.6	63.6	0.0233	-0.0469	0.0523	-63.6
1.50	8.0406	17.0864	18.8838	64.8	64.8	0.0225	-0.0479	0.0530	-64.8
1.55	7.5962	17.4606	19.0414	66.5	66.5	0.0210	-0.0482	0.0525	-66.5
1.60	7.2583	18.0831	19.4854	68.1	68.1	0.0191	-0.0476	0.0513	-68.1
1.65	7.0403	18.8606	20.1318	69.5	69.5	0.0174	-0.0465	0.0497	-69.5
1.70	6.9365	19.7451	20.9281	70.6	70.6	0.0158	-0.0451	0.0478	-70.6
1.75	6.9425	20.7143	21.8467	71.5	71.5	0.0145	-0.0434	0.0458	-71.5
1.80	7.0622	21.7595	22.8768	72.0	72.0	0.0135	-0.0416	0.0437	-72.0
1.85	7.3114	22.8786	24.0184	72.3	72.3	0.0127	-0.0397	0.0416	-72.3
1.90	7.7210	24.0692	25.2772	72.2	72.2	0.0121	-0.0377	0.0396	-72.2
1.95	8.3417	25.3205	26.6592	71.8	71.8	0.0117	-0.0356	0.0375	-71.8
2.00	9.2489	26.5977	28.1599	70.8	70.8	0.0117	-0.0335	0.0355	-70.8
2.05	10.5403	27.8136	29.7438	69.2	69.2	0.0119	-0.0314	0.0336	-69.2
2.10	12.3095	28.7821	31.3038	66.8	66.8	0.0126	-0.0294	0.0319	-66.8

Set I ($L/2A = 10$) Table J

J) MUTUAL ADMITTANCES OR IMPEDANCES, SOURCE L/4 OFF CENTER, Y=0 AT CENTER, OUTPUT POINT L/4 FROM CENTER									
L/($\lambda/4$)	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z	
0.05	0.0001	0.0925	0.0925	89.9	0.0107	-10.8151	10.8151	-89.9	
0.10	0.0015	0.1951	0.1951	89.6	0.0401	-5.1249	5.1251	-89.6	
0.15	0.0083	0.3195	0.3197	88.5	0.0812	-3.1273	3.1284	-88.5	
0.20	0.0291	0.4804	0.4812	86.5	0.1256	-2.0742	2.0780	-86.5	
0.25	0.0816	0.6969	0.7016	83.5	0.1658	-1.4156	1.4253	-83.3	
0.30	0.2021	0.9939	1.0142	78.5	0.1965	-0.9662	0.9860	-78.5	
0.35	0.4661	1.3962	1.4719	71.5	0.2152	-0.6444	0.6794	-71.5	
0.40	1.0263	1.8947	2.1548	61.6	0.2210	-0.4081	0.4641	-61.6	
0.45	2.1414	2.3205	3.1576	47.3	0.2148	-0.2327	0.3167	-47.3	
0.50	3.9702	2.0745	4.4795	27.6	0.1979	-0.1034	0.2232	-27.6	
0.55	5.7911	0.3406	5.8011	3.4	0.1721	-0.0101	0.1724	-3.4	
0.60	6.2426	-2.4109	6.6919	-21.1	0.1394	0.0538	0.1494	21.1	
0.65	5.3344	-4.8980	7.2420	-42.6	0.1017	0.0934	0.1381	42.6	
0.70	3.7281	-6.8851	7.8296	-61.6	0.0608	0.1123	0.1277	61.6	
0.75	1.3833	-8.5727	8.6835	-80.8	0.0183	0.1137	0.1152	80.8	
0.80	-2.2775	-9.4266	9.6978	76.4	-0.0242	0.1002	0.1031	-76.4	
0.85	-6.6606	-7.5679	10.0815	48.6	-0.0655	0.0745	0.0992	-48.6	
0.90	-8.4172	-3.1300	8.9803	20.4	-0.1044	0.0388	0.1114	-20.4	
0.95	-7.1590	0.2208	7.1624	-1.8	-0.1396	-0.0043	0.1396	1.8	
1.00	-5.3727	1.6612	5.6236	-17.2	-0.1699	-0.0525	0.1778	17.2	
1.05	-4.0092	2.1397	4.5445	-28.1	-0.1941	-0.1036	0.2200	28.1	
1.10	-3.0710	2.2642	3.8154	-36.4	-0.2110	-0.1555	0.2621	36.4	
1.15	-2.4147	2.2801	3.3211	-43.4	-0.2189	-0.2067	0.3011	43.4	
1.20	-1.9241	2.2760	2.9803	-49.8	-0.2166	-0.2562	0.3355	49.8	
1.25	-1.5173	2.2763	2.7356	-56.3	-0.2027	-0.3042	0.3655	56.3	
1.30	-1.1395	2.2695	2.5394	-63.3	-0.1767	-0.3519	0.3938	63.3	
1.35	-0.7685	2.2178	2.3472	-70.9	-0.1395	-0.4026	0.4260	70.9	
1.40	-0.4328	2.0833	2.1278	-78.3	-0.0956	-0.4601	0.4700	78.3	
1.45	-0.1948	1.8772	1.8873	-84.1	-0.0547	-0.5270	0.5299	84.1	
1.50	-0.0852	1.6670	1.6692	-87.1	-0.0306	-0.5983	0.5991	87.1	
1.55	-0.0770	1.5172	1.5191	-87.1	-0.0333	-0.6574	0.6583	87.1	
1.60	-0.1231	1.4557	1.4609	-85.2	-0.0577	-0.6821	0.6845	85.2	
1.65	-0.1836	1.4910	1.5022	-83.0	-0.0814	-0.6607	0.6657	83.0	
1.70	-0.2177	1.6280	1.6425	-82.4	-0.0807	-0.6035	0.6088	82.4	
1.75	-0.1685	1.8556	1.8633	-84.8	-0.0485	-0.5345	0.5367	84.8	
1.80	0.0159	2.1148	2.1149	89.6	0.0036	-0.4728	0.4728	-89.6	
1.85	0.3229	2.3187	2.3411	82.1	0.0589	-0.4231	0.4272	-82.1	
1.90	0.6833	2.4359	2.5299	74.3	0.1068	-0.3806	0.3953	-74.3	
1.95	1.0566	2.4994	2.7136	67.1	0.1435	-0.3394	0.3685	-67.1	
2.00	1.4565	2.5440	2.9315	60.2	0.1695	-0.2960	0.3411	-60.2	
2.05	1.9233	2.5736	3.2128	53.2	0.1863	-0.2493	0.3113	-53.2	
2.10	2.5017	2.5562	3.5767	45.6	0.1956	-0.1998	0.2796	-45.6	

V	MONOSTATIC AND BISTATIC ECHO AREAS/($LAMBDA$ SQUARED)	S(A)	S(B)	S(C)	S(D)	S(E)	S(F)	S(G)
L/($LAMBDA$)								
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00002	0.00002	0.00001	0.00001	0.00000	0.00000	0.00000	0.00002
0.15	0.00026	0.00024	0.00019	0.00013	0.00006	0.00002	0.00002	0.00022
0.20	0.00186	0.00173	0.00136	0.00089	0.00043	0.00011	0.00011	0.00159
0.25	0.01003	0.00927	0.00726	0.00467	0.00225	0.00059	0.00059	0.00852
0.30	0.04822	0.04438	0.03436	0.02175	0.01033	0.00266	0.00266	0.04059
0.35	0.21972	0.20125	0.15378	0.09560	0.04454	0.01133	0.01133	0.18329
0.40	0.68724	0.62610	0.47134	0.28699	0.13088	0.03276	0.03276	0.56853
0.45	0.83646	0.75754	0.56099	0.33378	0.14865	0.03654	0.03654	0.68754
0.50	0.69645	0.62672	0.45594	0.26457	0.11479	0.02767	0.02767	0.57075
0.55	0.60457	0.54038	0.38580	0.21798	0.09198	0.02170	0.02170	0.49667
0.60	0.56598	0.50238	0.35175	0.19331	0.07922	0.01828	0.01828	0.46978
0.65	0.55853	0.49229	0.33797	0.18058	0.07183	0.01620	0.01620	0.47316
0.70	0.56969	0.49867	0.33580	0.17453	0.06742	0.01486	0.01486	0.49743
0.75	0.59280	0.51553	0.34088	0.17262	0.06488	0.01401	0.01401	0.53203
0.80	0.62394	0.53945	0.35094	0.17370	0.06376	0.01352	0.01352	0.54353
0.85	0.66040	0.56822	0.36482	0.17738	0.06398	0.01340	0.01340	0.46094
0.90	0.70000	0.60024	0.38203	0.18384	0.06578	0.01372	0.01372	0.29914
0.95	0.74082	0.63421	0.40253	0.19378	0.06974	0.01466	0.01466	0.18890
1.00	0.78135	0.66910	0.42665	0.20857	0.07697	0.01656	0.01656	0.14885
1.05	0.82138	0.70436	0.45491	0.23050	0.08946	0.02006	0.02006	0.14092
1.10	0.86489	0.74086	0.48754	0.26325	0.11087	0.02635	0.02635	0.14350
1.15	0.92784	0.78341	0.52281	0.31220	0.14773	0.03761	0.03761	0.14937
1.20	1.05631	0.84670	0.55259	0.38319	0.21029	0.05739	0.05739	0.15860
1.25	1.35217	0.96374	0.55348	0.47401	0.30793	0.08917	0.08917	0.17623
1.30	1.93697	1.17408	0.48717	0.55386	0.42646	0.12883	0.12883	0.20841
1.35	2.73745	1.45361	0.34934	0.56733	0.50758	0.15692	0.15692	0.24957
1.40	3.43830	1.69878	0.20811	0.50976	0.51122	0.15895	0.15895	0.26177
1.45	3.88918	1.85990	0.11667	0.43450	0.46817	0.14436	0.14436	0.29849
1.50	4.17098	1.96313	0.07024	0.37632	0.41875	0.12676	0.12676	0.30609
1.55	4.38441	2.04129	0.04854	0.34014	0.37879	0.11179	0.11179	0.31106
1.60	4.58336	2.11197	0.03807	0.32118	0.35016	0.10036	0.10036	0.31637
1.65	4.79000	2.18243	0.03220	0.31435	0.33096	0.09197	0.09197	0.32181
1.70	5.01199	2.25530	0.02799	0.31603	0.31911	0.08605	0.08605	0.32359
1.75	5.25110	2.33132	0.02430	0.32388	0.31314	0.08220	0.08220	0.31466
1.80	5.50705	2.41051	0.02074	0.33640	0.31226	0.08027	0.08027	0.29074
1.85	5.77933	2.49258	0.01733	0.35255	0.31629	0.08036	0.08036	0.25949
1.90	6.06875	2.57696	0.01441	0.37156	0.32564	0.08289	0.08289	0.23525
1.95	6.37990	2.66248	0.01274	0.39252	0.34129	0.08864	0.08864	0.22511
2.00	6.72556	2.74664	0.01395	0.41404	0.36485	0.09896	0.09896	0.22796
2.05	7.13514	2.82419	0.02151	0.43333	0.39845	0.11588	0.11588	0.24012
2.10	7.66791	2.88484	0.04213	0.44489	0.44394	0.14198	0.14198	0.25793

Set I ($1/2A=10$) Table K (contd.)

$L/(\lambda\text{MBDA})$	$S(H)$	$S(I)$	$S(J)$	$S(K)$	$S(L)$	$S(M)$	$S(N)$
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00001	0.00001	0.00001	0.00001	0.00000	0.00000	0.00000
0.15	0.00019	0.00018	0.00014	0.00009	0.00005	0.00001	0.00006
0.20	0.00136	0.00126	0.00095	0.00064	0.00031	0.00008	0.00041
0.25	0.00726	0.00664	0.00515	0.00328	0.00157	0.00041	0.00208
0.30	0.03436	0.03125	0.02392	0.01500	0.00706	0.00181	0.00937
0.35	0.15378	0.13931	0.10534	0.06489	0.03002	0.00760	0.03982
0.40	0.47134	0.42668	0.31933	0.19344	0.08787	0.02193	0.11694
0.45	0.56099	0.51023	0.37948	0.22671	0.10130	0.02496	0.13571
0.50	0.45594	0.42005	0.31265	0.18524	0.08176	0.01994	0.11079
0.55	0.38580	0.36431	0.27431	0.16269	0.07144	0.01731	0.09853
0.60	0.35175	0.34610	0.26782	0.16121	0.07119	0.01727	0.10074
0.65	0.33797	0.35402	0.28799	0.17941	0.08084	0.01979	0.11840
0.70	0.33580	0.38368	0.33867	0.22403	0.10474	0.02613	0.16009
0.75	0.34088	0.43064	0.43091	0.31200	0.15369	0.03930	0.24444
0.80	0.35094	0.46831	0.56349	0.46032	0.24088	0.06316	0.40558
0.85	0.36482	0.41754	0.65208	0.61408	0.34052	0.09104	0.60038
0.90	0.38203	0.25833	0.57594	0.62550	0.36307	0.09809	0.66778
0.95	0.40253	0.12186	0.42410	0.52622	0.31437	0.08504	0.60195
1.00	0.42665	0.05403	0.31837	0.43635	0.26411	0.07103	0.52728
1.05	0.45491	0.02582	0.26277	0.38505	0.23355	0.06222	0.48899
1.10	0.48754	0.01491	0.23892	0.36483	0.22073	0.05826	0.48980
1.15	0.52281	0.01174	0.23357	0.36633	0.22162	0.05821	0.52936
1.20	0.55259	0.01327	0.23676	0.38021	0.23234	0.06129	0.60985
1.25	0.55348	0.01988	0.23521	0.38920	0.24487	0.06579	0.72412
1.30	0.46717	0.03312	0.20976	0.36218	0.24167	0.06727	0.82627
1.35	0.34934	0.05095	0.15433	0.28200	0.20162	0.06083	0.83916
1.40	0.20811	0.06706	0.09496	0.18489	0.15699	0.04874	0.75495
1.45	0.11667	0.07877	0.05516	0.11311	0.11468	0.03748	0.65233
1.50	0.07024	0.08789	0.03445	0.07210	0.08785	0.02966	0.57892
1.55	0.04854	0.09667	0.02473	0.05166	0.07319	0.02495	0.54136
1.60	0.03807	0.10694	0.02024	0.04336	0.06710	0.02266	0.53195
1.65	0.03220	0.12096	0.01808	0.04316	0.06832	0.02258	0.53935
1.70	0.02799	0.14214	0.01699	0.05030	0.07766	0.02498	0.54651
1.75	0.02430	0.17381	0.01638	0.06546	0.09601	0.03001	0.52779
1.80	0.02074	0.21402	0.01568	0.08722	0.12031	0.03655	0.46258
1.85	0.01733	0.25272	0.01437	0.10991	0.14275	0.04236	0.36366
1.90	0.01441	0.28065	0.01257	0.12805	0.15839	0.04648	0.26926
1.95	0.01274	0.29677	0.01130	0.14058	0.16934	0.05020	0.20288
2.00	0.01395	0.30407	0.01233	0.14877	0.18091	0.05581	0.16501
2.05	0.02151	0.30454	0.01875	0.15335	0.19863	0.06581	0.14740
2.10	0.04213	0.29763	0.03599	0.15356	0.22823	0.08309	0.14144

Set I ($1/2A=10$) Table K (contd.)

L/(LAMBDA)	S(U)	S(P)	S(Q)	S(R)	S(S)	S(T)	S(U)
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.15	0.00006	0.00006	0.00005	0.00003	0.00001	0.00000	0.00000
0.20	0.00043	0.00040	0.00031	0.00020	0.00010	0.00003	0.00001
0.25	0.00225	0.00204	0.00157	0.00100	0.00047	0.00012	0.00003
0.30	0.01033	0.00931	0.00706	0.00440	0.00206	0.00053	0.00013
0.35	0.04454	0.04001	0.03002	0.01836	0.00845	0.00213	0.00054
0.40	0.13088	0.11791	0.08787	0.05304	0.02402	0.00599	0.00149
0.45	0.14865	0.13568	0.10130	0.06075	0.02724	0.00673	0.00166
0.50	0.11479	0.10781	0.08176	0.04928	0.02205	0.00543	0.00134
0.55	0.09198	0.09088	0.07144	0.04400	0.01990	0.00492	0.00122
0.60	0.07922	0.08497	0.07119	0.04577	0.02123	0.00531	0.00134
0.65	0.07183	0.08726	0.08084	0.05557	0.02477	0.00681	0.00175
0.70	0.06742	0.09783	0.10474	0.07854	0.03430	0.01026	0.00268
0.75	0.06488	0.11855	0.15369	0.12695	0.05711	0.01756	0.00464
0.80	0.06376	0.14756	0.24088	0.21842	0.11859	0.03148	0.00836
0.85	0.06398	0.16214	0.34052	0.33434	0.18555	0.04936	0.01310
0.90	0.06578	0.13451	0.36307	0.37996	0.21377	0.05679	0.01505
0.95	0.06974	0.09230	0.31437	0.34684	0.19724	0.05230	0.01386
1.00	0.07697	0.06307	0.26411	0.30655	0.17676	0.04694	0.01250
1.05	0.08946	0.04676	0.23355	0.28761	0.16968	0.04540	0.01223
1.10	0.11087	0.03903	0.22073	0.29410	0.17991	0.04885	0.01340
1.15	0.14773	0.03888	0.22162	0.32927	0.21199	0.05877	0.01647
1.20	0.21029	0.04974	0.23234	0.40014	0.27435	0.07783	0.02226
1.25	0.30793	0.07969	0.24487	0.50982	0.37381	0.10824	0.03144
1.30	0.42646	0.13446	0.24167	0.63055	0.49195	0.14453	0.04236
1.35	0.50758	0.19855	0.20762	0.69218	0.56806	0.16817	0.04949
1.40	0.51122	0.24325	0.15699	0.66594	0.56771	0.16855	0.04971
1.45	0.46817	0.26470	0.11468	0.60310	0.52960	0.15747	0.04664
1.50	0.41875	0.27755	0.08785	0.55124	0.49806	0.14871	0.04450
1.55	0.37879	0.29428	0.07319	0.52536	0.49204	0.14848	0.04522
1.60	0.35016	0.32269	0.06710	0.52591	0.51857	0.15951	0.04979
1.65	0.33096	0.36824	0.06832	0.54921	0.58246	0.18407	0.05911
1.70	0.31911	0.43253	0.07766	0.58646	0.68414	0.22304	0.07357
1.75	0.31314	0.50554	0.09601	0.61752	0.80560	0.27050	0.09110
1.80	0.31226	0.56037	0.12031	0.61471	0.90035	0.30928	0.10555
1.85	0.31629	0.57322	0.14275	0.56973	0.92687	0.32288	0.11103
1.90	0.32564	0.55050	0.15839	0.50622	0.89613	0.31428	0.10869
1.95	0.34129	0.51549	0.16934	0.45067	0.85002	0.29918	0.10438
2.00	0.36485	0.48354	0.18091	0.41274	0.81900	0.28996	0.10280
2.05	0.39845	0.45824	0.19863	0.39026	0.81555	0.29264	0.10648
2.10	0.44394	0.43625	0.22823	0.37633	0.84230	0.30984	0.11673

Set I ($L/2A = 10$) Table I

VI	ECHO AREAS/(λ AMDDA SQUARED) FOR	LOADED SCATTERER	(BROADSIDE	INCIDENCE)	S(H)	S(I)
$L/(\lambda$ AMDDA) S(A)	S(B)	S(C)	S(D)	S(E)	S(F)	S(G)
0.05	0.71755	0.00000	0.00000	0.00000	0.00000	0.17939
0.10	0.72187	0.00002	0.00001	0.00000	0.00000	0.18047
0.15	0.72892	0.00038	0.00007	0.00004	0.00002	0.18229
0.20	0.73815	0.00549	0.00043	0.00025	0.00015	0.18500
0.25	0.74468	0.07468	0.00192	0.00107	0.00061	0.18868
0.30	0.72561	0.01328	0.00694	0.00368	0.00203	0.19346
0.35	0.57844	0.00117	0.02218	0.01099	0.00581	0.19954
0.40	0.14135	0.00132	0.06502	0.02981	0.01500	0.20715
0.45	0.02972	0.01823	0.17529	0.07490	0.03577	0.21657
0.50	0.21576	0.08253	0.03940	0.41087	0.07977	0.22811
0.55	0.36367	0.26283	0.01002	0.74788	0.36367	0.24222
0.60	0.47022	0.61656	0.00214	0.64922	0.32121	0.25945
0.65	0.56004	1.00415	0.08009	1.11013	0.95658	0.28056
0.70	0.64882	1.21801	0.40430	1.13407	1.19153	0.30665
0.75	0.74739	1.28766	1.00853	1.14396	1.33722	0.33930
0.80	0.86517	1.31130	1.46687	1.16384	1.43007	0.38088
0.85	1.01197	1.33580	1.62858	1.19949	1.50501	0.43500
0.90	1.19883	1.37519	1.67243	1.25125	1.58174	0.50708
0.95	1.43768	1.43238	1.70312	1.31851	1.66970	0.60511
1.00	1.73931	1.50771	1.75120	1.40112	1.77352	0.74039
1.05	2.10889	1.60181	1.82355	1.50008	1.89611	0.91514
1.10	2.54037	1.71689	1.92214	1.61829	2.04019	1.03343
1.15	3.01399	1.85795	2.04986	1.76181	2.20906	1.18336
1.20	3.49321	2.03435	2.21275	1.94177	2.40686	1.32764
1.25	3.89436	2.26125	2.42115	2.17625	2.63819	1.48226
1.30	4.07429	2.55773	2.68852	2.48793	2.90636	1.64721
1.35	4.02380	2.93384	3.02292	2.88782	3.20917	1.84152
1.40	3.97791	3.36377	3.40797	3.34309	3.53333	2.01378
1.45	4.06397	3.77829	3.79180	3.77341	3.85287	2.248236
1.50	4.22693	4.11641	4.11868	4.11617	4.13977	2.48236
1.55	4.40727	4.37452	4.37524	4.37432	4.39761	3.00414
1.60	4.58701	4.58593	4.58625	4.58738	4.58780	3.34259
1.65	4.76927	4.78276	4.78160	4.78339	4.77588	3.69646
1.70	4.96262	4.98326	4.97992	4.98515	4.96356	3.87292
1.75	5.17572	5.19483	5.18919	5.19806	5.15974	3.97388
1.80	5.41658	5.41899	5.41122	5.42352	5.36775	4.19854
1.85	5.69336	5.65473	5.64500	5.66046	5.58734	4.39581
1.90	6.01538	5.90036	5.88875	5.90729	5.81666	4.58519
1.95	6.39367	6.15527	6.14162	6.16351	6.05383	4.77963
2.00	6.83942	6.42216	6.40592	6.43207	6.29862	4.98724
2.05	7.35690	6.71103	6.69092	6.72344	6.55476	5.21313
2.10	7.92597	7.04613	7.01952	7.06268	6.83374	5.45162
						5.73475
						5.96799
						6.03896
						6.24860
						6.38098
						6.55044
						6.77180
						7.22655
						7.76235
						7.28986
						7.11881

VIII PRIMED ADMITTANCE PARAMETERS (MILLIMHOS) FOR CENTER LOADED SCATTERER, NORMAL INCIDENCE			
L/(LAMBDA)	RE DY11	IM DY11	RE Y12
0.05	0.00000	0.00020	0.00001
0.10	0.00001	0.00165	0.00023
0.15	0.00011	0.00604	0.00205
0.20	0.00081	0.01613	0.01096
0.25	0.00430	0.03724	0.04697
0.30	0.02042	0.07964	0.18712
0.35	0.09168	0.14966	0.72591
0.40	0.28202	0.12965	1.97203
0.45	0.33707	-0.06039	2.11687
0.50	0.27527	-0.14787	1.57360
0.55	0.23417	-0.17297	1.23203
0.60	0.21474	-0.18230	1.04940
0.65	0.20758	-0.18764	0.94956
0.70	0.20751	-0.19184	0.89440
0.75	0.21187	-0.19549	0.86538
0.80	0.21921	-0.19854	0.85237
0.85	0.22869	-0.20071	0.84950
0.90	0.23981	-0.20156	0.85268
0.95	0.25232	-0.20048	0.85827
1.00	0.26623	-0.19662	0.86192
1.05	0.28198	-0.18877	0.85682
1.10	0.30086	-0.17532	0.83066
1.15	0.32594	-0.15439	0.76017
1.20	0.36379	-0.12546	0.60434
1.25	0.42497	-0.09468	0.31232
1.30	0.51442	-0.08318	-0.10183
1.35	0.60886	-0.11428	-0.44999
1.40	0.67201	-0.17442	-0.54330
1.45	0.70167	-0.22999	-0.43877
1.50	0.71618	-0.26801	-0.27363
1.55	0.72799	-0.29100	-0.11718
1.60	0.74175	-0.30389	0.01310
1.65	0.75852	-0.31011	0.11826
1.70	0.77817	-0.31158	0.20353
1.75	0.80031	-0.30929	0.27424
1.80	0.82455	-0.30357	0.33511
1.85	0.85062	-0.29438	0.39052
1.90	0.87844	-0.28132	0.44524
1.95	0.90822	-0.26370	0.50543
2.00	0.94074	-0.24057	0.57999
2.05	0.97766	-0.21090	0.68235
2.10	1.02207	-0.17423	0.83143

I INPUT ADMITTANCES (MILLIMHOS) AND IMPEDANCES (KILDOHMS)

A) SOURCE AT CENTER $L/(\lambda/2)$	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0002	0.7904	0.7904	90.0	0.0003	-1.2652	1.2652	-90.0
0.10	0.0032	1.6201	1.6201	89.9	0.0012	-0.6173	0.6173	-89.9
0.15	0.0186	2.5392	2.5393	89.9	0.0024	-0.3938	0.3938	-89.6
0.20	0.0733	3.6260	3.6267	88.3	0.0055	-0.2757	0.2757	-88.8
0.25	0.2460	5.0204	5.0264	87.2	0.0097	-0.1987	0.1989	-87.2
0.30	0.8002	6.9914	7.0371	83.5	0.0162	-0.1412	0.1421	-83.5
0.35	2.7781	9.9147	10.2965	74.3	0.0262	-0.0935	0.0971	-74.3
0.40	9.6468	11.6207	15.1031	50.3	0.0423	-0.0509	0.0662	-50.3
0.45	14.1432	2.4473	14.3534	9.3	0.0685	-0.0119	0.0697	-9.8
0.50	8.6537	-1.5713	8.7952	-10.3	0.1117	0.0203	0.1137	10.3
0.55	5.4623	-0.9663	5.5471	-10.0	0.1775	0.0314	0.1803	10.0
0.60	3.9695	0.0927	3.9709	1.3	0.2513	-0.0059	0.2519	-1.3
0.65	3.1831	1.0534	3.3529	13.3	0.2831	-0.0937	0.2983	-13.3
0.70	2.7226	1.8966	3.3180	34.9	0.2473	-0.1723	0.3014	-34.9
0.75	2.4331	2.6576	3.6032	47.5	0.1874	-0.2047	0.2775	-47.5
0.80	2.2441	3.3688	4.0478	56.3	0.1370	-0.2056	0.2470	-56.3
0.85	2.1210	4.0556	4.5767	62.4	0.1013	-0.1956	0.2185	-62.4
0.90	2.0468	4.7394	5.1625	66.6	0.0763	-0.1778	0.1937	-66.6
0.95	2.0156	5.4403	5.8017	69.7	0.0593	-0.1616	0.1724	-69.7
1.00	2.0305	6.1801	6.5051	71.8	0.0483	-0.1460	0.1537	-71.8
1.05	2.1067	6.9845	7.2953	73.2	0.0398	-0.1312	0.1371	-73.2
1.10	2.2786	7.8855	8.2081	73.9	0.0333	-0.1170	0.1218	-73.9
1.15	2.6193	8.9201	9.2967	73.6	0.0303	-0.1032	0.1076	-73.6
1.20	3.2807	10.1105	10.6294	72.0	0.0290	-0.0845	0.0941	-72.0
1.25	4.5632	11.3692	12.2508	63.1	0.0304	-0.0758	0.0816	-68.1
1.30	6.8860	12.1643	13.9781	60.5	0.0352	-0.0623	0.0715	-60.5
1.35	9.9119	11.1042	14.8845	48.2	0.0447	-0.0501	0.0672	-48.2
1.40	11.1827	7.8908	13.6864	35.2	0.0597	-0.0421	0.0731	-35.2
1.45	9.8366	5.3657	11.2049	28.6	0.0783	-0.0427	0.0892	-28.6
1.50	7.9476	4.6161	9.1909	30.1	0.0941	-0.0546	0.1088	-30.1
1.55	6.5189	4.8127	8.1029	36.4	0.0993	-0.0733	0.1234	-36.4
1.60	5.5626	5.3481	7.7165	43.9	0.0934	-0.0898	0.1296	-43.9
1.65	4.9282	5.9853	7.7531	50.5	0.0820	-0.0996	0.1290	-50.5
1.70	4.5012	6.6467	8.0275	55.9	0.0699	-0.1031	0.1246	-55.9
1.75	4.2122	7.3121	8.4385	60.1	0.0592	-0.1027	0.1185	-60.1
1.80	4.0211	7.9816	8.9373	63.3	0.0503	-0.0999	0.1119	-63.3
1.85	3.9069	8.6635	9.5037	65.7	0.0433	-0.0959	0.1052	-65.7
1.90	3.8618	9.3696	10.1342	67.6	0.0375	-0.0912	0.0987	-67.6
1.95	3.8899	10.1142	10.8364	69.0	0.0331	-0.0861	0.0923	-69.0
2.00	4.0093	10.9131	11.6263	69.8	0.0297	-0.0807	0.0860	-69.8
2.05	4.2587	11.7807	12.5268	70.1	0.0271	-0.0751	0.0798	-70.1
2.10	4.7099	12.7191	13.5631	69.7	0.0250	-0.0691	0.0737	-69.7

Set II (L/2A = 20) Table B

B) SOURCE L/8 OFF CENTER																	
L/(LAMBDA)		G		B		MAG Y		ANG Y		K		X		MAG Z		ANG Z	
0.05	0.0002	0.7657	0.7657	0.0003	-1.3060	1.3060	-90.0	0.0003	-1.3060	1.3060	-90.0	0.0003	-1.3060	1.3060	-90.0	0.0003	-90.0
0.10	0.0029	1.5670	1.5670	0.0012	-0.6382	0.6382	89.9	0.0012	-0.6382	0.6382	-89.9	0.0012	-0.6382	0.6382	-89.9	0.0012	-89.9
0.15	0.0168	2.4493	2.4493	0.0028	-0.4083	0.4083	89.6	0.0028	-0.4083	0.4083	-89.6	0.0028	-0.4083	0.4083	-89.6	0.0028	-89.6
0.20	0.0663	3.4827	3.4827	0.0055	-0.2870	0.2871	88.9	0.0055	-0.2870	0.2871	-88.9	0.0055	-0.2870	0.2871	-88.9	0.0055	-88.9
0.25	0.2217	4.7922	4.7922	0.0096	-0.2082	0.2085	87.4	0.0096	-0.2082	0.2085	-87.4	0.0096	-0.2082	0.2085	-87.4	0.0096	-87.4
0.30	0.7186	6.6165	6.6554	0.0162	-0.1494	0.1503	83.8	0.0162	-0.1494	0.1503	-83.8	0.0162	-0.1494	0.1503	-83.8	0.0162	-83.8
0.35	2.4839	9.2854	9.6118	0.0269	-0.1005	0.1040	75.0	0.0269	-0.1005	0.1040	-75.0	0.0269	-0.1005	0.1040	-75.0	0.0269	-75.0
0.40	8.5830	10.8572	13.8400	0.0443	-0.0567	0.0723	51.7	0.0443	-0.0567	0.0723	-51.7	0.0443	-0.0567	0.0723	-51.7	0.0443	-51.7
0.45	12.5184	2.8017	12.8281	0.0761	-0.0170	0.0780	12.6	0.0761	-0.0170	0.0780	-12.6	0.0761	-0.0170	0.0780	-12.6	0.0761	-12.6
0.50	7.6238	-0.6051	7.6477	0.1303	0.0103	0.1308	-4.5	0.1303	0.0103	0.1308	4.5	0.1303	0.0103	0.1308	4.5	0.1303	4.5
0.55	4.8004	0.1064	4.8015	0.2082	-0.0046	0.2083	-1.3	0.2082	-0.0046	0.2083	1.3	0.2082	-0.0046	0.2083	-1.3	0.2082	-1.3
0.60	3.5011	1.2529	3.7185	0.2532	-0.0906	0.2689	19.7	0.2532	-0.0906	0.2689	-19.7	0.2532	-0.0906	0.2689	-19.7	0.2532	-19.7
0.65	2.8589	2.3705	3.7138	0.2073	-0.1719	0.2693	39.7	0.2073	-0.1719	0.2693	-39.7	0.2073	-0.1719	0.2693	-39.7	0.2073	-39.7
0.70	2.5756	3.4769	4.3270	0.1376	-0.1857	0.2311	53.5	0.1376	-0.1857	0.2311	-53.5	0.1376	-0.1857	0.2311	-53.5	0.1376	-53.5
0.75	2.6131	4.6453	5.3298	0.0920	-0.1635	0.1876	60.6	0.0920	-0.1635	0.1876	-60.6	0.0920	-0.1635	0.1876	-60.6	0.0920	-60.6
0.80	3.1622	5.8874	6.0829	0.0708	-0.1318	0.1496	61.8	0.0708	-0.1318	0.1496	-61.8	0.0708	-0.1318	0.1496	-61.8	0.0708	-61.8
0.85	4.6413	6.7495	8.1913	0.0692	-0.1006	0.1221	55.5	0.0692	-0.1006	0.1221	-55.5	0.0692	-0.1006	0.1221	-55.5	0.0692	-55.5
0.90	6.3991	5.8364	8.6609	0.0853	-0.0778	0.1155	42.4	0.0853	-0.0778	0.1155	-42.4	0.0853	-0.0778	0.1155	-42.4	0.0853	-42.4
0.95	6.1256	4.1395	7.3931	0.1121	-0.0757	0.1353	34.0	0.1121	-0.0757	0.1353	-34.0	0.1121	-0.0757	0.1353	-34.0	0.1121	-34.0
1.00	4.9481	3.7645	6.2173	0.1280	-0.0974	0.1608	37.3	0.1280	-0.0974	0.1608	-37.3	0.1280	-0.0974	0.1608	-37.3	0.1280	-37.3
1.05	4.0994	4.1626	5.8423	0.1201	-0.1220	0.1712	45.4	0.1201	-0.1220	0.1712	-45.4	0.1201	-0.1220	0.1712	-45.4	0.1201	-45.4
1.10	3.6093	4.7927	5.9998	0.1003	-0.1331	0.1667	53.0	0.1003	-0.1331	0.1667	-53.0	0.1003	-0.1331	0.1667	-53.0	0.1003	-53.0
1.15	3.3635	5.4906	6.4389	0.0811	-0.1324	0.1553	58.5	0.0811	-0.1324	0.1553	-58.5	0.0811	-0.1324	0.1553	-58.5	0.0811	-58.5
1.20	3.3115	6.2138	7.0411	0.0663	-0.1253	0.1420	61.9	0.0663	-0.1253	0.1420	-61.9	0.0663	-0.1253	0.1420	-61.9	0.0663	-61.9
1.25	3.4678	6.9263	7.7459	0.0578	-0.1154	0.1291	63.4	0.0578	-0.1154	0.1291	-63.4	0.0578	-0.1154	0.1291	-63.4	0.0578	-63.4
1.30	3.8749	7.5046	8.4459	0.0543	-0.1052	0.1184	62.7	0.0543	-0.1052	0.1184	-62.7	0.0543	-0.1052	0.1184	-62.7	0.0543	-62.7
1.35	4.3928	7.6804	8.8479	0.0561	-0.0981	0.1130	60.2	0.0561	-0.0981	0.1130	-60.2	0.0561	-0.0981	0.1130	-60.2	0.0561	-60.2
1.40	4.4914	7.5049	8.7462	0.0587	-0.0981	0.1143	59.1	0.0587	-0.0981	0.1143	-59.1	0.0587	-0.0981	0.1143	-59.1	0.0587	-59.1
1.45	4.1127	7.6229	8.6616	0.0548	-0.1016	0.1155	61.7	0.0548	-0.1016	0.1155	-61.7	0.0548	-0.1016	0.1155	-61.7	0.0548	-61.7
1.50	3.7499	8.1925	9.0099	0.0462	-0.1009	0.1110	65.4	0.0462	-0.1009	0.1110	-65.4	0.0462	-0.1009	0.1110	-65.4	0.0462	-65.4
1.55	3.6065	9.0188	9.7131	0.0382	-0.0956	0.1030	68.2	0.0382	-0.0956	0.1030	-68.2	0.0382	-0.0956	0.1030	-68.2	0.0382	-68.2
1.60	3.7143	9.9950	10.6628	0.0327	-0.0879	0.0938	69.6	0.0327	-0.0879	0.0938	-69.6	0.0327	-0.0879	0.0938	-69.6	0.0327	-69.6
1.65	4.1343	11.0852	11.8311	0.0295	-0.0792	0.0845	69.5	0.0295	-0.0792	0.0845	-69.5	0.0295	-0.0792	0.0845	-69.5	0.0295	-69.5
1.70	5.0224	12.2194	13.2113	0.0288	-0.0700	0.0757	67.7	0.0288	-0.0700	0.0757	-67.7	0.0288	-0.0700	0.0757	-67.7	0.0288	-67.7
1.75	6.6151	13.1195	14.6929	0.0306	-0.0509	0.0681	63.2	0.0306	-0.0509	0.0681	-63.2	0.0306	-0.0509	0.0681	-63.2	0.0306	-63.2
1.80	8.9118	13.0562	15.8078	0.0357	-0.0522	0.0633	55.7	0.0357	-0.0522	0.0633	-55.7	0.0357	-0.0522	0.0633	-55.7	0.0357	-55.7
1.85	10.8529	11.3008	15.6682	0.0442	-0.0460	0.0638	46.2	0.0442	-0.0460	0.0638	-46.2	0.0442	-0.0460	0.0638	-46.2	0.0442	-46.2
1.90	10.9529	8.8174	14.0611	0.0554	-0.0445	0.0711	38.8	0.0554	-0.0445	0.0711	-38.8	0.0554	-0.0445	0.0711	-38.8	0.0554	-38.8
1.95	9.6604	7.2966	12.1064	0.0659	-0.0498	0.0826	37.1	0.0659	-0.0498	0.0826	-37.1	0.0659	-0.0498	0.0826	-37.1	0.0659	-37.1
2.00	8.2066	6.9144	10.7312	0.0713	-0.0600	0.0932	40.1	0.0713	-0.0600	0.0932	-40.1	0.0713	-0.0600	0.0932	-40.1	0.0713	-40.1
2.05	7.0711	7.1635	10.0656	0.0698	-0.0707	0.0993	45.4	0.0698	-0.0707	0.0993	-45.4	0.0698	-0.0707	0.0993	-45.4	0.0698	-45.4
2.10	6.2736	7.6910	9.9252	0.0637	-0.0781	0.1008	50.8	0.0637	-0.0781	0.1008	-50.8	0.0637	-0.0781	0.1008	-50.8	0.0637	-50.8

Set II ($L/2A = 20$) Table C

C) SOURCE L/4 OFF CENTER L/(λ MBDA)	G	B	MAG Y	ANG Y	K	X	MAG Z	ANG Z
0.05	0.0001	0.6885	0.6885	90.0	0.0003	-1.4525	1.4525	-90.0
0.10	0.0021	1.4024	1.4024	89.9	0.0010	-0.7130	0.7130	-89.9
0.15	0.0120	2.1740	2.1740	89.7	0.0025	-0.4600	0.4600	-89.7
0.20	0.0470	3.0519	3.0523	89.1	0.0050	-0.3276	0.3276	-89.1
0.25	0.1560	4.1217	4.1246	87.8	0.0092	-0.2423	0.2424	-87.8
0.30	0.5000	5.5435	5.5659	84.8	0.0161	-0.1789	0.1797	-84.8
0.35	1.7057	7.5305	7.7213	77.2	0.0286	-0.1263	0.1295	-77.2
0.40	5.8061	8.7466	10.4982	56.4	0.0527	-0.0794	0.0953	-56.4
0.45	8.3350	3.5576	9.0625	23.1	0.1015	-0.0433	0.1103	-23.1
0.50	5.0042	1.6373	5.2653	18.1	0.1805	-0.0591	0.1899	-18.1
0.55	3.1282	2.5068	4.0087	38.7	0.1947	-0.1560	0.2495	-38.7
0.60	2.3069	3.7246	4.3811	58.2	0.1202	-0.1940	0.2283	-58.2
0.65	1.9825	5.0259	5.4028	68.5	0.0679	-0.1722	0.1851	-68.5
0.70	2.0238	6.4799	6.7386	72.7	0.0439	-0.1406	0.1473	-72.7
0.75	2.5757	8.1991	8.5942	72.6	0.0349	-0.1110	0.1164	-72.6
0.80	4.1865	10.1435	10.9735	67.0	0.0348	-0.0842	0.0911	-67.6
0.85	7.8392	11.1782	13.6530	55.0	0.0421	-0.0600	0.0732	-55.0
0.90	11.9009	8.0987	14.3595	34.2	0.0575	-0.0391	0.0695	-34.2
0.95	11.0939	3.4018	11.6037	17.0	0.0824	-0.0253	0.0862	-17.0
1.00	8.2640	1.9073	8.4812	13.0	0.1149	-0.0265	0.1179	-13.0
1.05	6.2329	2.1923	6.6073	19.4	0.1428	-0.0502	0.1513	-19.4
1.10	5.0091	2.9864	5.8319	30.8	0.1473	-0.0878	0.1715	-30.8
1.15	4.2934	3.9211	5.8145	42.4	0.1270	-0.1160	0.1720	-42.4
1.20	3.9395	4.9248	6.3066	51.3	0.0990	-0.1238	0.1586	-51.3
1.25	3.9573	5.9808	7.1714	56.5	0.0769	-0.1163	0.1394	-56.5
1.30	4.4948	6.9476	8.2747	57.1	0.0656	-0.1015	0.1208	-57.1
1.35	5.5491	7.3014	9.1703	52.8	0.0660	-0.0868	0.1090	-52.8
1.40	6.2603	6.6787	9.1541	46.9	0.0747	-0.0797	0.1092	-46.9
1.45	6.0051	6.0008	8.4895	45.0	0.0833	-0.0833	0.1178	-45.0
1.50	5.3957	5.8810	7.9813	47.5	0.0847	-0.0923	0.1253	-47.5
1.55	4.8738	6.1361	7.8352	51.5	0.0794	-0.0999	0.1276	-51.5
1.60	4.5078	6.5531	7.9539	55.5	0.0713	-0.1036	0.1257	-55.5
1.65	4.2703	7.0300	8.2253	58.7	0.0631	-0.1039	0.1216	-58.7
1.70	4.1292	7.5199	8.5790	61.2	0.0561	-0.1022	0.1166	-61.2
1.75	4.0538	7.9935	8.9626	63.1	0.0505	-0.0995	0.1116	-63.1
1.80	3.9962	8.4349	9.3337	64.6	0.0459	-0.0968	0.1071	-64.6
1.85	3.8953	8.8848	9.7012	66.3	0.0414	-0.0944	0.1031	-66.3
1.90	3.7701	9.4403	10.1652	68.2	0.0365	-0.0914	0.0984	-68.2
1.95	3.7195	10.1204	10.7822	69.8	0.0320	-0.0871	0.0927	-69.8
2.00	3.7938	10.8773	11.5199	70.8	0.0286	-0.0820	0.0868	-70.8
2.05	4.0104	11.6834	12.3526	71.1	0.0263	-0.0766	0.0810	-71.1
2.10	4.4079	12.5245	13.2775	70.0	0.0250	-0.0710	0.0753	-70.6

Set II ($L/2A = 20$) Table D

D) SOURCE 3L/8 OFF CENTER		L/(LAMBDA)		B		MAG Y		ANG Y		R		X		MAG Z		ANG Z	
0.05	0.0001	0.5438	0.0002	90.0	0.0002	-1.8388	1.8388	-90.0	0.0002	-1.8388	1.8388	-90.0	0.0002	1.8388	1.8388	-90.0	0.0002
0.10	0.0010	1.0994	0.0008	90.0	0.0008	-0.9096	0.9096	-90.0	0.0008	-0.9096	0.9096	-90.0	0.0008	0.9096	0.9096	-90.0	0.0008
0.15	0.0055	1.6814	0.0020	89.8	0.0020	-0.5948	0.5948	-89.6	0.0020	-0.5948	0.5948	-89.6	0.0020	0.5948	0.5948	-89.6	0.0020
0.20	0.0214	2.3110	0.0040	89.5	0.0040	-0.4327	0.4327	-89.5	0.0040	-0.4327	0.4327	-89.5	0.0040	0.4327	0.4327	-89.5	0.0040
0.25	0.0699	3.0247	0.0076	88.7	0.0076	-0.3304	0.3305	-88.7	0.0076	-0.3304	0.3305	-88.7	0.0076	0.3305	0.3305	-88.7	0.0076
0.30	0.2199	3.8886	0.0145	86.8	0.0145	-0.2563	0.2568	-86.8	0.0145	-0.2563	0.2568	-86.8	0.0145	0.2568	0.2568	-86.8	0.0145
0.35	0.7336	4.9846	0.0289	81.6	0.0289	-0.1964	0.1985	-81.6	0.0289	-0.1964	0.1985	-81.6	0.0289	0.1985	0.1985	-81.6	0.0289
0.40	2.4329	5.7363	0.0627	67.0	0.0627	-0.1473	0.1605	-67.0	0.0627	-0.1473	0.1605	-67.0	0.0627	0.1605	0.1605	-67.0	0.0627
0.45	3.3976	3.8817	0.1277	48.8	0.1277	-0.1459	0.1938	-48.8	0.1277	-0.1459	0.1938	-48.8	0.1277	0.1938	0.1938	-48.8	0.1277
0.50	1.9904	3.4806	0.1238	60.2	0.1238	-0.2165	0.2494	-60.2	0.1238	-0.2165	0.2494	-60.2	0.1238	0.2494	0.2494	-60.2	0.1238
0.55	1.2297	4.2432	0.0630	73.8	0.0630	-0.2174	0.2264	-73.8	0.0630	-0.2174	0.2264	-73.8	0.0630	0.2264	0.2264	-73.8	0.0630
0.60	0.9249	5.1778	0.0334	79.9	0.0334	-0.1872	0.1901	-79.9	0.0334	-0.1872	0.1901	-79.9	0.0334	0.1901	0.1901	-79.9	0.0334
0.65	0.8572	6.1990	0.0219	82.1	0.0219	-0.1583	0.1598	-82.1	0.0219	-0.1583	0.1598	-82.1	0.0219	0.1598	0.1598	-82.1	0.0219
0.70	1.0075	7.3593	0.0183	82.2	0.0183	-0.1334	0.1346	-82.2	0.0183	-0.1334	0.1346	-82.2	0.0183	0.1346	0.1346	-82.2	0.0183
0.75	1.5165	8.7268	0.0193	80.1	0.0193	-0.1112	0.1129	-80.1	0.0193	-0.1112	0.1129	-80.1	0.0193	0.1129	0.1129	-80.1	0.0193
0.80	2.7952	10.2366	0.0248	74.7	0.0248	-0.0909	0.0942	-74.7	0.0248	-0.0909	0.0942	-74.7	0.0248	0.0942	0.0942	-74.7	0.0248
0.85	5.5047	11.0078	0.0363	63.4	0.0363	-0.0727	0.0813	-63.4	0.0363	-0.0727	0.0813	-63.4	0.0363	0.0813	0.0813	-63.4	0.0363
0.90	8.2805	8.7939	0.0568	45.7	0.0568	-0.0603	0.0828	-45.7	0.0568	-0.0603	0.0828	-45.7	0.0568	0.0828	0.0828	-45.7	0.0568
0.95	7.4262	5.7411	0.0845	37.7	0.0845	-0.0652	0.1065	-37.7	0.0845	-0.0652	0.1065	-37.7	0.0845	0.1065	0.1065	-37.7	0.0845
1.00	5.2960	5.1923	0.0963	44.4	0.0963	-0.0944	0.1343	-44.4	0.0963	-0.0944	0.1343	-44.4	0.0963	0.1343	0.1343	-44.4	0.0963
1.05	3.8851	5.9774	0.0764	57.0	0.0764	-0.1176	0.1403	-57.0	0.0764	-0.1176	0.1403	-57.0	0.0764	0.1403	0.1403	-57.0	0.0764
1.10	3.1620	7.1947	0.0512	68.9	0.0512	-0.1165	0.1272	-68.9	0.0512	-0.1165	0.1272	-68.9	0.0512	0.1272	0.1272	-68.9	0.0512
1.15	2.9536	8.6224	0.0355	71.1	0.0355	-0.1038	0.1097	-71.1	0.0355	-0.1038	0.1097	-71.1	0.0355	0.1097	0.1097	-71.1	0.0355
1.20	3.2825	10.2340	0.0284	72.2	0.0284	-0.0886	0.0930	-72.2	0.0284	-0.0886	0.0930	-72.2	0.0284	0.0930	0.0930	-72.2	0.0284
1.25	4.4138	11.9389	0.0272	69.7	0.0272	-0.0737	0.0786	-69.7	0.0272	-0.0737	0.0786	-69.7	0.0272	0.0786	0.0786	-69.7	0.0272
1.30	6.9016	13.1658	0.0310	62.7	0.0310	-0.0600	0.0675	-62.7	0.0310	-0.0600	0.0675	-62.7	0.0310	0.0675	0.0675	-62.7	0.0310
1.35	10.1063	12.3477	0.0397	50.7	0.0397	-0.0485	0.0627	-50.7	0.0397	-0.0485	0.0627	-50.7	0.0397	0.0627	0.0627	-50.7	0.0397
1.40	11.5676	9.0587	0.0536	38.1	0.0536	-0.0420	0.0681	-38.1	0.0536	-0.0420	0.0681	-38.1	0.0536	0.0681	0.0681	-38.1	0.0536
1.45	10.0947	11.9926	0.0702	32.7	0.0702	-0.0450	0.0834	-32.7	0.0702	-0.0450	0.0834	-32.7	0.0702	0.0834	0.0834	-32.7	0.0702
1.50	7.9839	9.9441	0.0807	36.0	0.0807	-0.0599	0.1006	-36.0	0.0807	-0.0599	0.1006	-36.0	0.0807	0.1006	0.1006	-36.0	0.0807
1.55	6.4253	6.5572	0.0762	45.0	0.0762	-0.0778	0.1089	-45.0	0.0762	-0.0778	0.1089	-45.0	0.0762	0.1089	0.1089	-45.0	0.0762
1.60	5.5139	7.7116	0.0614	54.4	0.0614	-0.0858	0.1055	-54.4	0.0614	-0.0858	0.1055	-54.4	0.0614	0.1055	0.1055	-54.4	0.0614
1.65	5.2008	9.1423	0.0470	60.4	0.0470	-0.0826	0.0951	-60.4	0.0470	-0.0826	0.0951	-60.4	0.0470	0.0951	0.0951	-60.4	0.0470
1.70	5.5696	10.7227	0.0381	62.0	0.0381	-0.0734	0.0823	-62.0	0.0381	-0.0734	0.0823	-62.0	0.0381	0.0823	0.0823	-62.0	0.0381
1.75	6.8629	12.1642	0.0352	60.6	0.0352	-0.0624	0.0716	-60.6	0.0352	-0.0624	0.0716	-60.6	0.0352	0.0716	0.0716	-60.6	0.0352
1.80	9.1632	12.6650	0.0375	54.1	0.0375	-0.0518	0.0640	-54.1	0.0375	-0.0518	0.0640	-54.1	0.0375	0.0640	0.0640	-54.1	0.0375
1.85	11.4078	11.2564	0.0444	44.5	0.0444	-0.0438	0.0624	-44.5	0.0444	-0.0438	0.0624	-44.5	0.0444	0.0624	0.0624	-44.5	0.0444
1.90	11.7988	8.7578	0.0546	30.0	0.0546	-0.0406	0.0681	-30.0	0.0546	-0.0406	0.0681	-30.0	0.0546	0.0681	0.0681	-30.0	0.0546
1.95	10.5448	7.1065	0.0652	34.0	0.0652	-0.0440	0.0786	-34.0	0.0652	-0.0440	0.0786	-34.0	0.0652	0.0786	0.0786	-34.0	0.0652
2.00	8.9706	9.7135	0.0715	36.8	0.0715	-0.0535	0.0892	-36.8	0.0715	-0.0535	0.0892	-36.8	0.0715	0.0892	0.0892	-36.8	0.0715
2.05	7.7042	7.1205	0.0700	42.7	0.0700	-0.0647	0.0953	-42.7	0.0700	-0.0647	0.0953	-42.7	0.0700	0.0953	0.0953	-42.7	0.0700
2.10	6.8677	7.9621	0.0621	49.2	0.0621	-0.0720	0.0951	-49.2	0.0621	-0.0720	0.0951	-49.2	0.0621	0.0951	0.0951	-49.2	0.0621

Set II ($L/2A = 20$) Table E

E)	SOURCE $L/4$ OFF CENTER, $Y=0$ AT CENTER	β	MAG Y	ANG Y	R	X	MAG Z	ANG Z
	$L/(\lambda \text{MBDA})$	G						
0.05	0.0000	0.5814	0.5814	90.0	0.0001	-1.7199	1.7199	-90.0
0.10	0.0006	1.1718	1.1718	90.0	0.0004	-0.8534	0.8534	-90.0
0.15	0.0031	1.7808	1.7308	89.9	0.0010	-0.5015	0.5615	-89.9
0.20	0.0103	2.4200	2.4201	89.7	0.0018	-0.4132	0.4132	-89.7
0.25	0.0295	3.1039	3.1041	89.3	0.0031	-0.3221	0.3222	-89.5
0.30	0.0706	3.8514	3.8520	89.0	0.0048	-0.2596	0.2596	-89.0
0.35	0.1556	4.6871	4.6897	88.1	0.0071	-0.2131	0.2132	-88.1
0.40	0.3275	5.6415	5.6510	86.7	0.0103	-0.1767	0.1770	-86.7
0.45	0.6715	6.7414	6.7748	84.3	0.0146	-0.1469	0.1476	-84.3
0.50	1.3489	7.9676	8.0808	80.4	0.0200	-0.1220	0.1238	-80.4
0.55	2.5862	9.1171	9.4769	74.2	0.0288	-0.1015	0.1055	-74.2
0.60	4.3844	9.6190	10.5711	65.5	0.0392	-0.0861	0.0946	-65.5
0.65	5.8955	9.0664	10.8146	57.0	0.0504	-0.0775	0.0925	-57.0
0.70	5.3120	8.3905	10.4390	53.0	0.0573	-0.0761	0.0952	-53.0
0.75	6.3419	8.6725	10.7439	53.3	0.0549	-0.0751	0.0931	-53.8
0.80	7.2846	9.8585	12.2579	53.5	0.0485	-0.0650	0.0816	-53.5
0.85	10.3383	13.5092	14.7770	45.3	0.0476	-0.0481	0.0677	-45.3
0.90	14.0432	7.2078	15.7349	27.2	0.0564	-0.0289	0.0634	-27.2
0.95	12.9400	2.3793	13.1569	13.4	0.0748	-0.0137	0.0760	-10.4
1.00	9.8910	0.7619	9.9203	4.4	0.1005	-0.0077	0.1008	-4.4
1.05	7.6903	0.9130	7.7433	6.3	0.1282	-0.0152	0.1291	-6.6
1.10	6.3212	1.5381	6.5056	13.7	0.1494	-0.0363	0.1537	-13.7
1.15	5.4523	2.2445	5.9962	22.4	0.1568	-0.0646	0.1696	-22.4
1.20	4.8804	2.9348	5.6948	31.0	0.1505	-0.0905	0.1756	-31.0
1.25	4.4983	3.5897	5.7551	38.6	0.1358	-0.1084	0.1738	-38.6
1.30	4.2507	4.2081	5.9814	44.7	0.1188	-0.1170	0.1672	-44.7
1.35	4.1099	4.7871	6.3093	49.4	0.1032	-0.1203	0.1585	-49.4
1.40	4.0582	5.3129	6.6855	52.0	0.0908	-0.1189	0.1496	-52.0
1.45	4.0669	5.7610	7.0519	54.8	0.0818	-0.1158	0.1418	-54.8
1.50	4.0797	6.1220	7.3569	56.3	0.0754	-0.1131	0.1359	-56.3
1.55	4.0422	6.4366	7.6306	57.9	0.0700	-0.1114	0.1316	-57.9
1.60	3.9552	6.7686	7.8395	59.7	0.0644	-0.1101	0.1276	-59.7
1.65	3.8603	7.1450	8.1212	61.6	0.0585	-0.1083	0.1231	-61.6
1.70	3.7903	7.5517	8.4496	63.3	0.0531	-0.1058	0.1183	-63.3
1.75	3.7495	7.9580	8.7971	64.8	0.0485	-0.1028	0.1137	-64.8
1.80	3.7049	8.3406	9.1264	66.0	0.0443	-0.1001	0.1096	-66.0
1.85	3.6004	8.7333	9.4453	67.6	0.0403	-0.0979	0.1059	-67.6
1.90	3.4543	9.2278	9.8531	69.5	0.0350	-0.0950	0.1015	-69.5
1.95	3.3607	9.8385	10.3967	71.1	0.0311	-0.0910	0.0962	-71.1
2.00	3.3591	10.5139	11.0375	72.3	0.0270	-0.0863	0.0906	-72.3
2.05	3.4465	11.2257	11.7428	72.9	0.0250	-0.0814	0.0852	-72.9
2.10	3.6256	11.9690	12.5061	73.1	0.0232	-0.0765	0.0800	-73.1

Set II: (L/2A = 20) Table F

F) SOURCE L/4 OFF CENTER, L/(LAMBDA)	G	B	MAG. Y	ANG. Y	R	AF CENTER X	MAG. Z	ANG. Z
0.05	0.0001	0.6926	0.0926	90.0	0.0003	-1.4438	1.4438	-90.0
0.10	0.0024	1.4444	1.4444	89.9	0.0012	-0.6923	0.6923	-89.9
0.15	0.0198	2.4007	2.4008	89.5	0.0034	-0.4165	0.4165	-89.5
0.20	0.2389	4.5648	4.5710	87.0	0.0114	-0.2185	0.2188	-87.0
0.25	0.5044	-0.8874	1.0207	-60.4	0.0481	0.8517	0.9797	60.4
0.30	0.0155	2.3519	2.3519	89.6	0.0028	-0.4252	0.4252	-89.6
0.35	0.0068	3.5548	3.5548	89.9	0.0005	-0.2813	0.2813	-89.9
0.40	0.0582	4.5991	4.5995	89.3	0.0027	-0.2174	0.2174	-89.3
0.45	0.1957	5.7007	5.7041	88.0	0.0060	-0.1752	0.1753	-88.0
0.50	0.5097	6.9497	6.9684	85.8	0.0105	-0.1431	0.1435	-85.8
0.55	1.1922	8.3660	8.4505	81.9	0.0167	-0.1172	0.1183	-81.9
0.60	2.5531	9.7369	10.0601	75.3	0.0252	-0.0961	0.0993	-75.3
0.65	4.6118	10.3348	11.3171	66.0	0.0360	-0.0807	0.0884	-66.0
0.70	6.2411	9.7553	11.5809	57.4	0.0465	-0.0727	0.0863	-57.4
0.75	6.7831	9.3843	11.5791	54.1	0.0506	-0.0700	0.0864	-54.1
0.80	7.6753	10.1139	12.6965	52.8	0.0476	-0.0627	0.0788	-52.8
0.85	10.6288	10.5755	14.9938	44.9	0.0473	-0.0470	0.0667	-44.9
0.90	14.1673	7.2127	15.8977	27.0	0.0561	-0.0285	0.0629	-27.0
0.95	12.9882	2.3723	13.2031	10.4	0.0745	-0.0136	0.0757	-10.4
1.00	9.8910	0.7619	9.9203	4.4	0.1005	-0.0077	0.1008	-4.4
1.05	7.6592	0.9274	7.7152	6.9	0.1287	-0.0156	0.1296	-6.9
1.10	6.2696	1.5706	6.4633	14.1	0.1501	-0.0376	0.1547	-14.1
1.15	5.3874	2.2983	5.8571	23.1	0.1570	-0.0670	0.1707	-23.1
1.20	4.8082	3.0137	5.6747	32.1	0.1493	-0.0936	0.1762	-32.1
1.25	4.4259	3.6992	5.7682	39.9	0.1330	-0.1112	0.1734	-39.9
1.30	4.1892	4.3544	6.0424	46.1	0.1147	-0.1193	0.1655	-46.1
1.35	4.0788	4.9735	6.4321	50.6	0.0986	-0.1202	0.1555	-50.6
1.40	4.0860	5.5287	6.8748	53.5	0.0865	-0.1170	0.1455	-53.5
1.45	4.1745	5.9673	7.2825	55.0	0.0787	-0.1125	0.1373	-55.0
1.50	4.2451	6.2673	7.5697	55.9	0.0741	-0.1094	0.1321	-55.9
1.55	4.2099	6.5115	7.7539	57.1	0.0700	-0.1083	0.1290	-57.1
1.60	4.0944	6.8052	7.9420	59.0	0.0649	-0.1079	0.1259	-59.0
1.65	3.9727	7.1727	8.1994	61.0	0.0591	-0.1067	0.1220	-61.0
1.70	3.8870	7.5851	8.5230	62.9	0.0535	-0.1044	0.1173	-62.9
1.75	3.8403	8.0043	8.8779	64.4	0.0487	-0.1016	0.1126	-64.4
1.80	3.7988	8.4063	9.2247	65.7	0.0446	-0.0988	0.1084	-65.7
1.85	3.7080	8.8276	9.5788	67.2	0.0404	-0.0963	0.1044	-67.2
1.90	3.5942	9.3674	10.0332	69.0	0.0357	-0.0931	0.0997	-69.0
1.95	3.5765	10.0561	10.6731	70.4	0.0314	-0.0883	0.0937	-70.4
2.00	3.3591	10.5139	11.0375	72.3	0.0276	-0.0863	0.0906	-72.3
2.05	4.8887	11.6037	12.5915	67.2	0.0368	-0.0732	0.0794	-67.2
2.10	3.9757	10.0581	10.8153	68.4	0.0340	-0.0860	0.0925	-68.4

Set II ($L/2A = 20$) Table G

G)	SOURCE L/4 OFF CENTER, L/(LAMBDA)	G	B	MAG Y	ANG Y	Y=(-J/300)C01(KL/4)	MHOS R	AT CENTER X	MAG Z	ANG Z
0.05	0.0001	0.6905	0.6905	90.0	90.0	0.0003	0.0003	-1.4482	1.4482	-90.0
0.10	0.0022	1.4217	1.4217	89.9	89.9	0.0011	0.0011	-0.7034	0.7034	-89.9
0.15	0.0148	2.2620	2.2620	89.6	89.6	0.0029	0.0029	-0.4421	0.4421	-89.6
0.20	0.0776	3.3966	3.3966	88.7	88.7	0.0067	0.0067	-0.2943	0.2943	-88.7
0.25	0.5820	5.7648	5.7648	84.2	84.2	0.0173	0.0173	-0.1717	0.1717	-84.2
0.30	9.0882	-4.7237	10.425	-27.5	-27.5	0.0860	0.0860	0.0450	0.0976	27.5
0.35	0.3443	1.3481	1.3914	75.7	75.7	0.1773	0.1773	-0.6964	0.7187	-75.7
0.40	0.0515	3.2372	3.2376	89.1	89.1	0.0049	0.0049	-0.3088	0.3089	-89.1
0.45	0.0175	4.5594	4.5594	89.8	89.8	0.0005	0.0005	-0.2193	0.2193	-89.8
0.50	0.1066	5.8557	5.8556	89.0	89.0	0.0031	0.0031	-0.1707	0.1707	-89.0
0.55	0.4024	7.3101	7.3212	86.8	86.8	0.0075	0.0075	-0.1364	0.1366	-86.8
0.60	1.1559	8.9922	9.0662	82.7	82.7	0.0141	0.0141	-0.1094	0.1103	-82.7
0.65	2.8193	10.6214	10.9892	75.1	75.1	0.0233	0.0233	-0.0880	0.0910	-75.1
0.70	5.3201	11.1378	12.3432	64.5	64.5	0.0349	0.0349	-0.0731	0.0810	-64.5
0.75	7.0106	10.4537	12.5910	56.2	56.2	0.0442	0.0442	-0.0660	0.0794	-56.2
0.80	8.0996	10.5236	13.2797	52.4	52.4	0.0459	0.0459	-0.0597	0.0753	-52.4
0.85	10.9034	10.6804	15.2628	44.4	44.4	0.0468	0.0468	-0.0458	0.0655	-44.4
0.90	14.3038	7.2241	16.0246	35.8	35.8	0.0557	0.0557	-0.0281	0.0624	-26.8
0.95	13.0387	2.3659	13.2516	19.3	19.3	0.0743	0.0743	-0.0135	0.0755	-10.3
1.00	9.8910	0.7619	9.3203	4.4	4.4	0.1005	0.1005	-0.0077	0.1008	-4.4
1.05	7.6293	0.9416	7.6872	7.0	7.0	0.1291	0.1291	-0.0159	0.1301	-7.0
1.10	6.2215	1.6020	6.4245	14.4	14.4	0.1507	0.1507	-0.0388	0.1557	-14.4
1.15	5.3285	2.3492	5.8235	23.8	23.8	0.1571	0.1571	-0.0693	0.1717	-23.8
1.20	4.7446	3.0875	5.6607	33.1	33.1	0.1481	0.1481	-0.0964	0.1767	-33.1
1.25	4.3642	3.8007	5.7872	41.1	41.1	0.1303	0.1303	-0.1135	0.1728	-41.1
1.30	4.1410	4.4892	6.1074	47.3	47.3	0.1110	0.1110	-0.1204	0.1637	-47.3
1.35	4.0647	5.1437	6.5558	51.7	51.7	0.0940	0.0940	-0.1197	0.1525	-51.7
1.40	4.1361	5.7180	7.0571	54.1	54.1	0.0830	0.0830	-0.1148	0.1417	-54.1
1.45	4.3020	6.1257	7.4854	54.9	54.9	0.0763	0.0763	-0.1093	0.1336	-54.9
1.50	4.4062	6.3474	7.7269	55.2	55.2	0.0706	0.0706	-0.1063	0.1294	-55.2
1.55	4.3455	6.5289	7.8428	56.4	56.4	0.0657	0.0657	-0.1061	0.1275	-56.4
1.60	4.1919	6.8016	7.9896	58.4	58.4	0.0597	0.0597	-0.1066	0.1252	-58.4
1.65	4.0448	7.1698	8.2321	60.6	60.6	0.0539	0.0539	-0.1058	0.1215	-60.6
1.70	3.9457	7.5890	8.5534	62.2	62.2	0.0490	0.0490	-0.1037	0.1169	-62.2
1.75	3.8930	8.0160	8.9113	64.1	64.1	0.0449	0.0449	-0.1009	0.1122	-64.1
1.80	3.8500	8.4256	9.2636	65.4	65.4	0.0406	0.0406	-0.0982	0.1079	-65.4
1.85	3.7610	8.8544	9.6201	67.0	67.0	0.0359	0.0359	-0.0957	0.1039	-67.0
1.90	3.6510	9.3998	10.0839	68.8	68.8	0.0316	0.0316	-0.0924	0.0992	-68.8
1.95	3.6320	10.0861	10.7201	70.2	70.2	0.0276	0.0276	-0.0878	0.0933	-70.2
2.00	3.3591	10.5139	11.0375	72.3	72.3	0.0275	0.0275	-0.0863	0.0906	-72.3
2.05	4.2995	11.7410	12.5035	69.9	69.9	0.0275	0.0275	-0.0751	0.0800	-69.9
2.10	5.7251	12.1854	13.4633	64.8	64.8	0.0316	0.0316	-0.0672	0.0743	-64.8

Set II ($L/2A = 20$) Table H

H)	SOURCE $L/4$ OFF CENTER,	B	G	$Y = (-J/100) \cos(KL/4)$	MAG Y	ANG Y	R	MHCS AT CENTER	X	MAG Z	ANG Z
	$L/(\lambda BDA)$										
0.05	0.0001	0.6391		0.5891	90.0	90.0	0.0003	-1.4511	1.4511	-90.0	
0.10	0.0021	1.4085		1.4085	89.9	89.9	0.0011	-0.7100	0.7100	-89.9	
0.15	0.0128	2.1995		2.1995	89.7	89.7	0.0025	-0.4546	0.4546	-89.7	
0.20	0.0538	3.1362		3.1362	89.0	89.0	0.0055	-0.3188	0.3188	-89.0	
0.25	0.2057	4.3866		4.3915	87.3	87.3	0.0107	-0.2275	0.2277	-87.3	
0.30	0.9007	6.4272		6.4900	82.0	82.0	0.0214	-0.1526	0.1541	-82.0	
0.35	6.1253	9.3430		11.1719	56.8	56.8	0.0491	-0.0749	0.0895	-56.8	
0.40	6.2043	-0.8696		6.2649	-2.0	-2.0	0.1581	0.0222	0.1596	2.0	
0.45	1.7343	1.0931		2.0501	32.2	32.2	0.4127	-0.2601	0.4878	-32.2	
0.50	0.7506	2.9437		3.0379	75.7	75.7	0.0813	-0.3190	0.3292	-75.7	
0.55	0.3872	4.4422		4.4590	85.0	85.0	0.0195	-0.2234	0.2243	-85.0	
0.60	0.2439	5.9398		5.9443	87.6	87.6	0.0069	-0.1681	0.1682	-87.6	
0.65	0.3081	7.6919		7.6981	87.7	87.7	0.0052	-0.1298	0.1299	-87.7	
0.70	0.8488	9.9971		10.0331	85.1	85.1	0.0064	-0.0993	0.0997	-85.1	
0.75	2.9039	12.9863		13.3070	77.4	77.4	0.0164	-0.0733	0.0751	-77.4	
0.80	7.9344	14.3095		16.3620	61.0	61.0	0.0296	-0.0535	0.0611	-61.0	
0.85	12.2583	11.9355		17.1092	44.2	44.2	0.0419	-0.0408	0.0584	-44.2	
0.90	15.0019	7.3876		16.7222	26.2	26.2	0.0556	-0.0264	0.0598	-26.2	
0.95	13.2659	2.3475		13.4721	10.0	10.0	0.0751	-0.0129	0.0742	-10.0	
1.00	9.8910	0.7619		9.9203	4.4	4.4	0.1005	-0.0077	0.1008	-4.4	
1.05	7.5201	0.9964		7.5859	7.5	7.5	0.107	-0.0173	0.1318	-7.5	
1.10	6.0586	1.7172		6.2973	15.8	15.8	0.128	-0.0433	0.1588	-15.8	
1.15	5.1409	2.5280		5.7289	26.2	26.2	0.1566	-0.0770	0.1746	-26.2	
1.20	4.5525	3.3382		5.5453	36.3	36.3	0.1428	-0.1047	0.1771	-36.3	
1.25	4.1924	4.1383		5.3908	44.6	44.6	0.1203	-0.1193	0.1698	-44.6	
1.30	4.0345	4.9306		6.3709	50.7	50.7	0.0994	-0.1215	0.1570	-50.7	
1.35	4.1080	5.6802		7.6100	54.1	54.1	0.0836	-0.1156	0.1427	-54.1	
1.40	4.4290	5.2412		7.6530	54.6	54.6	0.0750	-0.1066	0.1307	-54.6	
1.45	4.7909	6.4204		8.0109	53.3	53.3	0.0747	-0.1000	0.1248	-53.3	
1.50	4.8438	6.3727		8.9046	52.3	52.3	0.0756	-0.0995	0.1249	-52.3	
1.55	4.6249	6.4535		7.9396	54.4	54.4	0.0734	-0.1024	0.1260	-54.4	
1.60	4.3637	5.7323		8.9229	57.0	57.0	0.0678	-0.1040	0.1246	-57.0	
1.65	4.1641	7.1280		8.2551	59.7	59.7	0.0611	-0.1046	0.1211	-59.7	
1.70	4.0402	7.5708		8.5814	61.9	61.9	0.0549	-0.1028	0.1165	-61.9	
1.75	3.9754	8.0155		8.9471	63.6	63.6	0.0497	-0.1001	0.1118	-63.6	
1.80	3.9261	8.4385		9.3071	65.0	65.0	0.0453	-0.0974	0.1074	-65.0	
1.85	3.8334	8.8768		9.6692	66.6	66.6	0.0410	-0.0949	0.1034	-66.6	
1.90	3.7187	9.4269		10.1338	68.5	68.5	0.0362	-0.0918	0.0987	-68.5	
1.95	3.6854	10.1088		10.7596	70.0	70.0	0.0318	-0.0873	0.0929	-70.0	
2.00	3.3591	10.5139		11.0375	72.3	72.3	0.0276	-0.0863	0.0906	-72.3	
2.05	4.0858	11.7066		12.3991	70.8	70.8	0.0266	-0.0761	0.0807	-70.8	
2.10	4.6611	12.5679		13.4044	69.7	69.7	0.0259	-0.0699	0.0746	-69.7	

Set II (L/2A = 20) Table I

I) SOURCE L/4 OFF CENTER, GROUND PLANE AT CENTER	L/(LAMBDA)	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0002	J.2448		0.8448	90.0	0.0003	-1.1837	1.1837	-90.0
0.10	0.0041	1.7363		1.7363	89.9	0.0014	-0.5759	0.5759	-89.9
0.15	0.0240	2.7338		2.7339	89.5	0.0032	-0.3658	0.3658	-89.5
0.20	0.0939	3.9297		3.9209	88.6	0.0061	-0.2543	0.2544	-88.6
0.25	0.3112	5.4884		5.4973	86.8	0.0103	-0.1810	0.1819	-86.8
0.30	0.9976	7.7222		7.7864	82.6	0.0185	-0.1274	0.1284	-82.6
0.35	3.4052	11.0471		11.5600	72.9	0.0255	-0.0827	0.0865	-72.9
0.40	11.5972	12.7763		17.2549	47.8	0.0390	-0.0429	0.0580	-47.8
0.45	16.6366	1.6221		16.7155	5.6	0.0595	-0.0053	0.0598	-5.6
0.50	9.9372	-3.0965		10.4085	-17.3	0.0917	0.0286	0.0961	17.3
0.55	6.1092	-2.3796		6.5563	-21.3	0.1421	0.0554	0.1525	-21.3
0.60	4.3142	-1.1745		4.4713	-15.2	0.2158	0.0587	0.2237	-15.2
0.65	3.3538	-0.1098		3.3556	-1.9	0.2979	0.0098	0.2980	-1.9
0.70	2.7737	0.8019		2.8873	16.1	0.3327	-0.0962	0.3463	-16.1
0.75	2.3899	1.6061		2.8794	33.9	0.2882	-0.1937	0.3473	-33.9
0.80	2.1179	2.3417		3.1573	47.9	0.2125	-0.2549	0.3167	-47.9
0.85	1.9151	3.0377		3.5910	57.8	0.1485	-0.2556	0.2785	-57.8
0.90	1.7587	3.7173		4.1123	64.7	0.1043	-0.2198	0.2432	-64.7
0.95	1.6368	4.4010		4.6955	69.6	0.0742	-0.1996	0.2130	-69.6
1.00	1.5453	5.1099		5.4385	73.2	0.0542	-0.1793	0.1873	-73.2
1.05	1.4885	5.8690		6.0548	75.8	0.0406	-0.1601	0.1652	-75.8
1.10	1.4836	6.7111		6.3731	77.5	0.0314	-0.1421	0.1455	-77.5
1.15	1.5741	7.6798		7.8395	78.4	0.0256	-0.1250	0.1276	-78.4
1.20	1.8633	8.8252		9.0198	78.1	0.0229	-0.1085	0.1109	-78.1
1.25	2.5832	10.1509		10.4745	75.7	0.0235	-0.0925	0.0955	-75.7
1.30	4.1460	11.3705		12.1028	70.0	0.0283	-0.0776	0.0826	-70.0
1.35	6.6123	11.4245		13.2001	59.9	0.0379	-0.0656	0.0758	-59.9
1.40	8.3015	9.5732		12.6713	49.1	0.0517	-0.0596	0.0789	-49.1
1.45	7.9910	7.6491		11.0618	43.7	0.0653	-0.0625	0.0904	-43.7
1.50	6.9196	6.8712		9.7516	44.8	0.0728	-0.0723	0.1025	-44.8
1.55	5.9791	6.8677		9.1058	49.0	0.0721	-0.0828	0.1098	-49.0
1.60	5.3099	7.2116		8.9556	53.6	0.0662	-0.0899	0.1117	-53.6
1.65	4.8580	7.7036		9.1074	57.8	0.0586	-0.0929	0.1098	-57.8
1.70	4.5614	8.2657		9.4408	61.1	0.0512	-0.0927	0.1059	-61.1
1.75	4.3788	8.8710		9.8928	63.7	0.0447	-0.0906	0.1011	-63.7
1.80	4.2868	9.5133		10.4346	65.7	0.0394	-0.0874	0.0958	-65.7
1.85	4.2765	10.1967		11.0572	67.2	0.0350	-0.0834	0.0904	-67.2
1.90	4.3511	10.9306		11.7648	68.3	0.0314	-0.0790	0.0850	-68.3
1.95	4.5277	11.7273		12.5710	68.9	0.0287	-0.0742	0.0795	-68.9
2.00	4.8419	12.6000		13.4983	69.0	0.0266	-0.0692	0.0741	-69.0
2.05	5.3586	13.5552		14.5759	68.4	0.0252	-0.0638	0.0686	-68.4
2.10	6.1879	14.5737		15.8329	67.0	0.0247	-0.0581	0.0632	-67.0

Set II ($L/2A = 20$) Table J

J) MUTUAL ADMITTANCES OR IMPEDANCES, SOURCE L/4 OFF CENTER, Y=0 AT CENTER, OUTPUT POINT L/4 FROM CENTER									
L/(λ MBDA)	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z	
0.05	0.0000	0.0493	0.0493	90.0	0.0145	-20.2754	20.2754	-90.0	
0.10	0.0006	0.1032	0.1032	89.7	0.0547	-9.6910	9.6912	-89.7	
0.15	0.0031	0.1667	0.1667	88.9	0.1120	-5.9984	5.9994	-88.9	
0.20	0.0106	0.2459	0.2451	87.5	0.1755	-4.0591	4.0629	-87.5	
0.25	0.0288	0.3490	0.3502	85.3	0.2349	-2.8461	2.8558	-85.3	
0.30	0.0683	0.4867	0.4914	82.0	0.2826	-2.0151	2.0248	-82.0	
0.35	0.1494	0.6732	0.5896	77.5	0.3143	-1.4157	1.4501	-77.5	
0.40	0.3126	0.9247	0.9761	71.3	0.3281	-0.9705	1.0245	-71.3	
0.45	0.6380	1.2484	1.4020	62.9	0.3246	-0.6351	0.7133	-62.9	
0.50	1.2767	1.5964	2.0441	51.3	0.3055	-0.3821	0.4892	-51.3	
0.55	2.4390	1.7238	2.3867	35.3	0.2734	-0.1932	0.3348	-35.3	
0.60	4.0849	0.9954	4.2044	13.7	0.2311	-0.0563	0.2378	-13.7	
0.65	5.2843	-1.0953	5.3966	-11.7	0.1814	0.0376	0.1853	11.7	
0.70	5.0380	-3.7674	6.2909	-36.8	0.1273	0.0952	0.1590	36.8	
0.75	3.5802	-6.1196	7.0899	-59.7	0.0712	0.1217	0.1410	59.7	
0.80	1.0295	-8.0868	8.1521	-82.7	0.0155	0.1217	0.1227	82.7	
0.85	-3.3751	-3.8095	9.4339	69.0	-0.0379	0.0990	0.1060	-69.0	
0.90	-8.0000	-5.2522	9.5700	33.3	-0.0874	0.0573	0.1045	-33.3	
0.95	-7.6110	-0.0233	7.6110	0.2	-0.1314	0.0004	0.1314	-0.2	
1.00	-5.0917	2.0573	5.4916	-22.0	-0.1688	-0.0682	0.1821	22.0	
1.05	-3.2870	2.3973	4.0683	-36.1	-0.1986	-0.1448	0.2458	36.1	
1.10	-2.2135	2.2764	3.1751	-45.8	-0.2196	-0.2258	0.3149	45.8	
1.15	-1.5604	2.0821	2.6020	-53.2	-0.2305	-0.3075	0.3443	53.2	
1.20	-1.1353	1.9105	2.2223	-59.3	-0.2299	-0.3868	0.4500	59.3	
1.25	-0.8331	1.7791	1.9645	-64.9	-0.2159	-0.4610	0.5090	64.9	
1.30	-0.5928	1.6835	1.7849	-70.6	-0.1861	-0.5285	0.5603	70.6	
1.35	-0.3760	1.6088	1.6521	-76.8	-0.1378	-0.5894	0.6053	76.8	
1.40	-0.1609	1.5287	1.5371	-84.0	-0.0681	-0.6470	0.6506	84.0	
1.45	0.0476	1.4085	1.4053	88.1	0.0239	-0.7091	0.7095	-88.1	
1.50	0.2079	1.2311	1.2485	80.4	0.1334	-0.7898	0.8009	-80.4	
1.55	0.2737	1.0320	1.0677	75.1	0.2401	-0.9053	0.9366	-75.1	
1.60	0.2495	0.8739	0.9088	74.1	0.3021	-1.0580	1.1003	-74.1	
1.65	0.1776	0.7886	0.8034	77.3	0.2719	-1.2068	1.2370	-77.3	
1.70	0.0934	0.7177	0.7833	83.2	0.1522	-1.2676	1.2767	-83.2	
1.75	0.0207	0.8420	0.8423	88.6	0.0292	-1.1869	1.1873	-88.6	
1.80	-0.0057	0.9840	0.9940	-90.0	-0.0007	-1.0163	1.0163	90.0	
1.85	0.0862	1.1603	1.1635	85.7	0.0637	-0.8571	0.8594	-85.7	
1.90	0.2653	1.2778	1.3051	78.3	0.1558	-0.7502	0.7662	-78.3	
1.95	0.4494	1.3752	1.3993	71.3	0.2295	-0.6768	0.7146	-71.3	
2.00	0.6134	1.3594	1.4914	65.7	0.2758	-0.6112	0.6705	-65.7	
2.05	0.7843	1.4140	1.5169	61.0	0.3000	-0.5408	0.6185	-61.0	
2.10	0.9978	1.4937	1.7964	56.3	0.3092	-0.4629	0.5567	-56.3	

Set II ($L/2A = 20$) Table K

V	MONOSTATIC AND L/(LAMBDA)	S(A)	S(R)	S(C)	S(D)	S(E)	S(F)	S(G)
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00001	0.00001	0.00001	0.00001	0.00000	0.00000	0.00000	0.00001
0.15	0.00012	0.00012	0.00012	0.00009	0.00006	0.00003	0.00001	0.00011
0.20	0.00087	0.00087	0.00081	0.00064	0.00042	0.00020	0.00005	0.00075
0.25	0.00457	0.00457	0.00423	0.00331	0.00213	0.00103	0.00027	0.00389
0.30	0.02138	0.02138	0.01969	0.01526	0.00968	0.00460	0.00119	0.01802
0.35	0.10088	0.10088	0.09245	0.07076	0.04409	0.02059	0.00524	0.08423
0.40	0.45655	0.45655	0.41624	0.31399	0.19173	0.08770	0.02200	0.37793
0.45	0.84483	0.84483	0.76579	0.56850	0.33945	0.15173	0.03741	0.69448
0.50	0.63592	0.63592	0.57284	0.41794	0.24353	0.10613	0.02567	0.52075
0.55	0.48347	0.48347	0.43264	0.30988	0.17591	0.07460	0.01767	0.39647
0.60	0.41564	0.41564	0.36939	0.25955	0.14337	0.05908	0.01369	0.34414
0.65	0.38811	0.38811	0.34253	0.23602	0.12679	0.05074	0.01149	0.32847
0.70	0.38102	0.38102	0.33396	0.22572	0.11796	0.04584	0.01015	0.33551
0.75	0.38552	0.38552	0.33570	0.22276	0.11339	0.04286	0.00929	0.36116
0.80	0.39709	0.39709	0.34373	0.22434	0.11154	0.04113	0.00875	0.40107
0.85	0.41302	0.41302	0.35577	0.22909	0.11177	0.04043	0.00848	0.41987
0.90	0.43135	0.43135	0.37032	0.23634	0.11396	0.04076	0.00848	0.41472
0.95	0.45036	0.45036	0.38624	0.24594	0.11643	0.04240	0.00864	0.45235
1.00	0.46835	0.46835	0.40250	0.25815	0.12596	0.04589	0.00970	0.08362
1.05	0.48353	0.48353	0.41815	0.27363	0.13805	0.05221	0.01137	0.06959
1.10	0.49443	0.49443	0.43233	0.29362	0.15740	0.06541	0.01443	0.07061
1.15	0.50147	0.50147	0.44471	0.31953	0.18901	0.08339	0.02004	0.07410
1.20	0.51262	0.51262	0.45718	0.35452	0.24207	0.12015	0.03064	0.07716
1.25	0.56213	0.56213	0.47958	0.39623	0.33225	0.18921	0.05107	0.08085
1.30	0.75657	0.75657	0.54422	0.42732	0.47382	0.31213	0.08822	0.09061
1.35	1.27256	1.27256	0.70748	0.38980	0.62201	0.47066	0.15734	0.11553
1.40	1.97901	1.97901	0.93405	0.25185	0.63095	0.53708	0.15935	0.14930
1.45	2.40608	2.40608	1.07784	0.11921	0.50364	0.46813	0.13929	0.16923
1.50	2.54434	2.54434	1.13059	0.05192	0.37853	0.37200	0.10977	0.17605
1.55	2.58425	2.58425	1.14978	0.02528	0.29767	0.30030	0.06715	0.18064
1.60	2.61402	2.61402	1.16321	0.01534	0.25051	0.25338	0.07191	0.18929
1.65	2.65699	2.65699	1.17871	0.01147	0.22399	0.22332	0.06180	0.20604
1.70	2.71595	2.71595	1.19763	0.00966	0.21001	0.20425	0.05508	0.23495
1.75	2.78850	2.78850	1.21972	0.00846	0.20402	0.19262	0.05072	0.27360
1.80	2.87123	2.87123	1.24444	0.00743	0.20351	0.18600	0.04819	0.32762
1.85	2.96071	2.96071	1.27142	0.00651	0.20709	0.18530	0.04728	0.34695
1.90	3.05372	3.05372	1.30046	0.00579	0.21407	0.18689	0.04806	0.31370
1.95	3.14738	3.14738	1.33156	0.00553	0.22424	0.19797	0.05092	0.26119
2.00	3.23476	3.23476	1.36482	0.00622	0.23773	0.21436	0.05662	0.22149
2.05	3.33161	3.33161	1.40011	0.00889	0.25493	0.24123	0.06663	0.19932
2.10	3.43136	3.43136	1.43636	0.01590	0.27614	0.28394	0.08347	0.19012

Set II ($L/2A=20$) Table K (contd.)

$L/(\lambda \text{MBDA})$	$S(I)$	$S(J)$	$S(K)$	$S(L)$	$S(M)$	$S(N)$
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00001	0.00001	0.00000	0.00000	0.00000	0.00000
0.15	0.00009	0.00007	0.00004	0.00002	0.00001	0.00003
0.20	0.00064	0.00059	0.00030	0.00015	0.00004	0.00019
0.25	0.00331	0.00303	0.00150	0.00072	0.00019	0.00096
0.30	0.01526	0.01389	0.00669	0.00316	0.00081	0.00418
0.35	0.07076	0.06410	0.04853	0.01598	0.00352	0.01841
0.40	0.31399	0.28400	0.21265	0.05871	0.01468	0.07805
0.45	0.56850	0.51582	0.38333	0.10250	0.02529	0.13702
0.50	0.41794	0.38328	0.28446	0.07427	0.01811	0.10025
0.55	0.30988	0.29050	0.21744	0.05021	0.01360	0.07705
0.60	0.25955	0.25292	0.19373	0.05064	0.01222	0.07098
0.65	0.23602	0.24493	0.19606	0.05333	0.01294	0.07704
0.70	0.22572	0.25820	0.22244	0.06526	0.01603	0.09788
0.75	0.22276	0.29398	0.28373	0.09335	0.02337	0.14623
0.80	0.22434	0.35707	0.40723	0.15563	0.03981	0.25527
0.85	0.22909	0.42519	0.61339	0.27849	0.07261	0.47806
0.90	0.23634	0.36915	0.73125	0.39561	0.10450	0.70927
0.95	0.24594	0.18626	0.55485	0.35158	0.09339	0.65731
1.00	0.25814	0.07357	0.36015	0.25918	0.06878	0.50576
1.05	0.27363	0.02970	0.25548	0.20187	0.05329	0.41299
1.10	0.29362	0.01355	0.20689	0.17483	0.04525	0.37812
1.15	0.31993	0.00781	0.18814	0.16795	0.04387	0.38885
1.20	0.35452	0.00676	0.18733	0.17765	0.04648	0.44760
1.25	0.39623	0.00953	0.19805	0.20458	0.05411	0.57205
1.30	0.42732	0.01849	0.20914	0.24619	0.06659	0.78020
1.35	0.38980	0.03668	0.19103	0.27321	0.07642	1.00064
1.40	0.25185	0.05632	0.12529	0.23519	0.06849	1.01022
1.45	0.11921	0.06495	0.06066	0.16090	0.04875	0.81708
1.50	0.05192	0.06619	0.02712	0.10528	0.03292	0.63429
1.55	0.02528	0.06621	0.01357	0.06532	0.02341	0.52666
1.60	0.01534	0.06708	0.00846	0.04595	0.01800	0.48040
1.65	0.01147	0.06939	0.00651	0.03710	0.01506	0.47976
1.70	0.00966	0.07402	0.00570	0.03466	0.01399	0.51725
1.75	0.00846	0.08336	0.00533	0.03618	0.01500	0.58418
1.80	0.00743	0.10132	0.00525	0.04927	0.01674	0.64482
1.85	0.00651	0.12706	0.00529	0.06662	0.02447	0.62089
1.90	0.00579	0.14840	0.00518	0.08159	0.02907	0.49178
1.95	0.00553	0.15791	0.00508	0.08939	0.03163	0.34986
2.00	0.00622	0.16021	0.00566	0.09360	0.03431	0.25367
2.05	0.00689	0.16037	0.00790	0.12621	0.03945	0.20055
2.10	0.01590	0.16032	0.01575	0.14918	0.04938	0.17544

Set II ($L/2A=20$) Table K (contd.)

$L/(LAMBDA)$	$S(U)$	$S(P)$	$S(F)$	$S(R)$	$S(S)$	$S(T)$	$S(U)$
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.15	0.00003	0.00003	0.00002	0.00001	0.00001	0.00000	0.00000
0.20	0.00020	0.00019	0.00015	0.00009	0.00005	0.00001	0.00000
0.25	0.00103	0.00094	0.00072	0.00046	0.00022	0.00006	0.00001
0.30	0.00460	0.00415	0.00316	0.00197	0.00092	0.00024	0.00006
0.35	0.02059	0.01849	0.01388	0.00851	0.00392	0.00099	0.00025
0.40	0.08770	0.07884	0.05871	0.03544	0.01607	0.00401	0.00100
0.45	0.15173	0.13778	0.10250	0.06133	0.02747	0.00678	0.00167
0.50	0.10613	0.09873	0.07427	0.04448	0.01981	0.00486	0.00120
0.55	0.07460	0.07259	0.05621	0.03417	0.01530	0.00376	0.00093
0.60	0.05908	0.06199	0.05064	0.03182	0.01450	0.00359	0.00089
0.65	0.05074	0.05995	0.05333	0.03537	0.01661	0.00416	0.00105
0.70	0.04584	0.06483	0.06526	0.04553	0.02270	0.00573	0.00148
0.75	0.04286	0.07864	0.09335	0.07255	0.03678	0.00951	0.00247
0.80	0.04113	0.10709	0.15563	0.13207	0.06928	0.01805	0.00473
0.85	0.04043	0.15241	0.27849	0.25627	0.13795	0.03620	0.00950
0.90	0.04076	0.17023	0.39561	0.39032	0.21395	0.05619	0.01473
0.95	0.04240	0.11908	0.35158	0.36828	0.20467	0.05371	0.01408
1.00	0.04586	0.06946	0.25918	0.28712	0.16184	0.04249	0.01116
1.05	0.05221	0.04281	0.20187	0.23755	0.13050	0.03598	0.00952
1.10	0.06341	0.02914	0.17483	0.22148	0.11093	0.03484	0.00933
1.15	0.08339	0.02221	0.16795	0.23419	0.14401	0.03888	0.01058
1.20	0.12013	0.02066	0.17765	0.28073	0.18143	0.04986	0.01381
1.25	0.18921	0.02787	0.20458	0.37858	0.25881	0.07242	0.02038
1.30	0.31213	0.05430	0.24619	0.55029	0.39815	0.11312	0.03220
1.35	0.47066	0.11114	0.27321	0.75486	0.57520	0.16522	0.04739
1.40	0.53708	0.17222	0.23519	0.81176	0.64650	0.18646	0.05389
1.45	0.46813	0.19666	0.16090	0.69251	0.57254	0.16632	0.04817
1.50	0.37200	0.19900	0.10539	0.56056	0.47969	0.14000	0.04084
1.55	0.30030	0.20262	0.07377	0.48111	0.42719	0.12564	0.03708
1.60	0.25338	0.21818	0.05672	0.45232	0.42013	0.12512	0.03756
1.65	0.22332	0.25311	0.04803	0.46773	0.46026	0.13956	0.04276
1.70	0.20423	0.31774	0.04541	0.52870	0.55927	0.17338	0.05430
1.75	0.19262	0.42419	0.04950	0.63820	0.73523	0.23336	0.07458
1.80	0.18660	0.56444	0.06264	0.77069	0.97437	0.31006	0.10269
1.85	0.18536	0.66465	0.08272	0.83031	1.15211	0.38030	0.12515
1.90	0.18889	0.64370	0.09905	0.74682	1.12981	0.37786	0.12558
1.95	0.19797	0.54863	0.10745	0.60390	0.98059	0.35318	0.11184
2.00	0.21436	0.45796	0.11420	0.49068	0.85886	0.29270	0.09951
2.05	0.24123	0.39577	0.12621	0.42399	0.79404	0.27378	0.09473
2.10	0.28394	0.35890	0.14918	0.39505	0.79727	0.27956	0.09898

VI	ECHO AREAS/(λ LAMBDA SQUARED) FOR L/(LAMBDA) S(A)	S(B)	S(C)	LOADED SCATTERER (BROADSIDE S(D)	S(E)	S(F)	S(G)	S(H)	S(I)
0.05	0.71741	0.00000	0.00000	0.00000	0.00000	0.00000	0.17935	0.00000	0.00000
0.10	0.72138	0.00001	0.00001	0.00000	0.00000	0.00000	0.18035	0.00001	0.00001
0.15	0.72798	0.00019	0.00014	0.00002	0.00003	0.00002	0.18203	0.00012	0.00009
0.20	0.73699	0.00284	0.00116	0.00015	0.00019	0.00011	0.18447	0.00081	0.00047
0.25	0.74641	0.07464	0.00839	0.00064	0.00082	0.00046	0.18775	0.00393	0.00176
0.30	0.74667	0.00926	0.08579	0.00221	0.00291	0.00157	0.19201	0.01573	0.00526
0.35	0.68872	0.00183	0.68872	0.00671	0.00910	0.00463	0.19740	0.05210	0.01351
0.40	0.35980	0.00002	0.14166	0.01870	0.02635	0.01241	0.20409	0.12883	0.03077
0.45	0.00440	0.00195	0.06680	0.04932	0.07278	0.03122	0.21231	0.21073	0.06277
0.50	0.25340	0.01325	0.04012	0.12448	0.15197	0.07494	0.22235	0.25251	0.11425
0.55	0.45451	0.05020	0.02289	0.29456	0.45451	0.17172	0.23456	0.26823	0.18443
0.60	0.58125	0.15283	0.00858	0.60410	0.83063	0.36586	0.24938	0.27872	0.26529
0.65	0.68010	0.39620	0.00007	0.95775	1.06622	0.68010	0.26741	0.29144	0.34641
0.70	0.77368	0.81436	0.01523	1.15469	1.03815	1.02705	0.28947	0.30822	0.42151
0.75	0.87443	1.20934	0.11307	1.18681	1.03579	1.25666	0.31666	0.32922	0.48979
0.80	0.99156	1.37134	0.44148	1.15883	0.98779	1.34342	0.35050	0.35427	0.55352
0.85	1.13383	1.37518	1.11633	1.12978	0.96128	1.35687	0.39341	0.38323	0.61569
0.90	1.31069	1.34005	1.71945	1.11662	0.95531	1.35265	0.44841	0.41641	0.67897
0.95	1.53225	1.31414	1.97928	1.12125	0.96608	1.35474	0.51998	0.45410	0.74558
1.00	1.80752	1.30826	1.82866	1.14190	0.99034	1.37056	0.61397	0.49753	0.81750
1.05	2.13898	1.32227	1.75789	1.17664	1.02593	1.40142	0.73717	0.54930	0.89676
1.10	2.51214	1.35410	1.71622	1.22420	1.07176	1.44690	0.89563	0.61414	0.98582
1.15	2.88337	1.40219	1.70771	1.28434	1.12796	1.50652	1.09101	0.70153	1.08803
1.20	3.18364	1.46617	1.72813	1.35805	1.19638	1.58020	1.31742	0.82853	1.20808
1.25	3.35325	1.54731	1.77369	1.44810	1.28184	1.66856	1.50293	1.02190	1.35229
1.30	3.34224	1.64882	1.84255	1.55976	1.39434	1.77283	1.81316	1.30890	1.52752
1.35	3.04540	1.77592	1.93469	1.70102	1.55127	1.89444	2.04720	1.67963	1.73694
1.40	2.58562	1.93377	2.05073	1.87970	1.77207	2.03363	2.24008	2.04933	1.97062
1.45	2.38031	2.11972	2.18846	2.09168	2.04826	2.18617	2.38029	2.31833	2.19835
1.50	2.41395	2.31115	2.33663	2.30480	2.31034	2.33951	2.47602	2.46973	2.38266
1.55	2.50560	2.47038	2.47273	2.47253	2.48761	2.47437	2.54437	2.54983	2.50863
1.60	2.58778	2.57922	2.57745	2.58091	2.58755	2.57744	2.60085	2.60382	2.59117
1.65	2.65470	2.65302	2.65276	2.65322	2.65399	2.65273	2.65584	2.65530	2.65445
1.70	2.71442	2.71537	2.71519	2.71545	2.71566	2.71506	2.71518	2.71561	2.71543
1.75	2.77490	2.77986	2.77823	2.78063	2.78297	2.77694	2.78169	2.78483	2.78169
1.80	2.84182	2.85039	2.84701	2.85201	2.85730	2.84378	2.85648	2.86263	2.85483
1.85	2.91934	2.92604	2.92120	2.92839	2.93668	2.91580	2.93989	2.94700	2.93353
1.90	3.01129	3.00399	2.99811	3.00691	3.01803	2.99067	3.03219	3.03532	3.01524
1.95	3.12262	3.08086	3.07431	3.08418	3.09796	3.06517	3.13435	3.12522	3.09704
2.00	3.26077	3.15323	3.14632	3.15684	3.17319	3.13594	3.24892	3.21503	3.17618
2.05	3.43703	3.21832	3.21122	3.22214	3.24127	3.20010	3.38144	3.30513	3.25094
2.10	3.66531	3.27517	3.26777	3.27930	3.30237	3.25609	3.54197	3.40083	3.32230

VIII PRIMED ADMITTANCE PARAMETERS (MILLIMHOS) FOR CENTER LOADED SCATTERER, NORMAL INCIDENCE			
L/(LAMBDA)	RE DY11	IM DY11	RE Y12
0.05	0.00000	0.00014	0.00000
0.10	0.00000	0.00115	0.00011
0.15	0.00005	0.00418	0.00101
0.20	0.00038	0.01106	0.00527
0.25	0.00197	0.02524	0.02200
0.30	0.00909	0.05399	0.08530
0.35	0.04232	0.11114	0.34288
0.40	0.18865	0.16856	1.34904
0.45	0.34339	-0.02281	2.20377
0.50	0.25398	-0.15698	1.48250
0.55	0.18960	-0.17841	1.01759
0.60	0.15999	-0.18076	0.79674
0.65	0.14664	-0.18140	0.68284
0.70	0.14139	-0.18282	0.61967
0.75	0.14067	-0.18509	0.58350
0.80	0.14274	-0.18787	0.56303
0.85	0.14667	-0.19076	0.55221
0.90	0.15193	-0.19336	0.54740
0.95	0.15821	-0.19521	0.54597
1.00	0.16539	-0.19571	0.54544
1.05	0.17355	-0.19408	0.54258
1.10	0.18313	-0.18915	0.53191
1.15	0.19539	-0.17923	0.50251
1.20	0.21356	-0.16204	0.43088
1.25	0.24552	-0.13611	0.26654
1.30	0.30698	-0.10877	-0.07576
1.35	0.40623	-0.11569	-0.59526
1.40	0.49052	-0.19193	-0.92002
1.45	0.50748	-0.28245	-0.81291
1.50	0.49201	-0.33856	-0.55484
1.55	0.47657	-0.36766	-0.33323
1.60	0.46841	-0.38348	-0.17240
1.65	0.46681	-0.39316	-0.05758
1.70	0.47002	-0.39980	0.02636
1.75	0.47666	-0.40462	0.08990
1.80	0.48579	-0.40808	0.13998
1.85	0.49679	-0.41020	0.18141
1.90	0.50930	-0.41075	0.21801
1.95	0.52317	-0.40930	0.25351
2.00	0.53854	-0.40517	0.29257
2.05	0.55601	-0.39739	0.34239
2.10	0.57711	-0.38470	0.41543

I INPUT ADMITTANCES (MILLIMHOS) AND IMPEDANCES (KILIOHMS)

A) SOURCE AT CENTER $L/(\lambda/2)$	B	MAG Y	ANG Y	K	X	MAG Z	ANG Z
0.05	0.9001	0.5513	90.0	0.0004	-1.8134	1.8134	-90.0
0.10	0.0919	1.1315	89.9	0.0014	-0.8838	0.8838	-89.9
0.15	0.0107	1.7767	89.7	0.0034	-0.5628	0.5628	-89.7
0.20	0.0418	2.5429	89.1	0.0085	-0.3931	0.3931	-89.1
0.25	0.1372	3.5298	87.8	0.0113	-0.2329	0.2329	-87.8
0.30	0.4337	4.9378	85.0	0.0177	-0.2010	0.2017	-85.0
0.35	1.4741	7.1766	78.4	0.0275	-0.1337	0.1337	-78.4
0.40	5.8372	11.7651	60.3	0.0422	-0.0738	0.0850	-60.3
0.45	14.4418	14.9320	14.7	0.0648	-0.0170	0.0670	-14.7
0.50	8.6790	9.2954	-21.0	0.1004	0.0385	0.1076	21.0
0.55	4.7596	5.4889	-29.9	0.1550	0.0907	0.1822	29.9
0.60	3.1810	3.5701	-27.0	0.2450	0.1272	0.2801	27.0
0.65	2.4243	2.5292	-15.6	0.3790	0.1127	0.3454	15.6
0.70	2.0043	2.0043	0.1	0.4987	-0.0006	0.4989	-0.1
0.75	1.7473	1.8518	19.3	0.5096	-0.1788	0.5408	-19.3
0.80	1.5802	1.9582	36.2	0.4121	-0.3016	0.5177	-36.2
0.85	1.4686	2.2177	48.2	0.2986	-0.3379	0.4503	-48.5
0.90	1.3951	2.5640	57.0	0.2122	-0.3272	0.3400	-57.0
0.95	1.3518	2.9683	62.9	0.1534	-0.2999	0.3368	-62.9
1.00	1.3373	3.4275	67.0	0.1138	-0.2886	0.2918	-67.0
1.05	1.3569	3.9503	69.9	0.0873	-0.2577	0.2531	-69.9
1.10	1.4259	4.5612	71.8	0.0685	-0.2083	0.2192	-71.8
1.15	1.5791	5.3016	72.7	0.0562	-0.1401	0.1886	-72.7
1.20	1.8944	6.2402	72.3	0.0486	-0.1527	0.1603	-72.3
1.25	2.5531	7.4357	70.1	0.0456	-0.1256	0.1336	-70.1
1.30	3.9765	9.1680	64.3	0.0473	-0.0983	0.1091	-64.3
1.35	6.8554	11.1524	52.1	0.0521	-0.0707	0.0837	-52.1
1.40	10.1876	11.9652	31.6	0.0712	-0.0438	0.0836	-31.6
1.45	9.7420	9.9572	11.9	0.0983	-0.0208	0.1004	-11.9
1.50	7.2232	7.2377	3.6	0.1379	-0.0387	0.1382	-3.6
1.55	5.3602	5.3874	5.8	0.1847	-0.0166	0.1850	-5.8
1.60	4.2447	4.3769	14.1	0.2216	-0.0957	0.2285	-14.1
1.65	3.5690	3.9351	24.9	0.2305	-0.1070	0.2541	-24.9
1.70	3.1400	3.8432	35.3	0.2123	-0.1502	0.2599	-35.3
1.75	2.8567	3.9719	44.0	0.1811	-0.1749	0.2513	-44.0
1.80	2.6660	4.2200	50.8	0.1497	-0.1837	0.2370	-50.8
1.85	2.5398	4.5431	56.1	0.1223	-0.1824	0.2199	-56.1
1.90	2.4640	4.9374	60.1	0.1011	-0.1755	0.2025	-60.1
1.95	2.4345	5.3852	63.1	0.0839	-0.1656	0.1857	-63.1
2.00	2.4561	5.9003	65.4	0.0705	-0.1541	0.1695	-65.4
2.05	2.5453	6.5022	67.0	0.0602	-0.1415	0.1538	-67.0
2.10	2.7389	7.2229	67.7	0.0525	-0.1281	0.1334	-67.7

Set III ($L/2A = 40$) Table B

B) SOURCE L/8 OFF CENTER L/(λ BDA)	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0001	0.5304	0.5304	90.0	0.0003	-1.8853	1.8853	-90.0
0.10	0.0017	1.0868	1.0868	89.9	0.0014	-0.9202	0.9202	-89.9
0.15	0.0097	1.7016	1.7017	89.7	0.0033	-0.5877	0.5877	-89.7
0.20	0.0375	2.4248	2.4251	89.1	0.0064	-0.4123	0.4123	-89.1
0.25	0.1229	3.3448	3.3471	87.9	0.0110	-0.2986	0.2986	-87.9
0.30	0.3869	4.6385	4.6546	85.2	0.0179	-0.2141	0.2149	-85.2
0.35	1.3095	6.6653	6.7927	78.9	0.0284	-0.1445	0.1472	-78.9
0.40	5.1601	9.3875	10.7123	61.2	0.0450	-0.0818	0.0934	-61.2
0.45	12.6996	3.7779	13.2496	15.6	0.0723	-0.0215	0.0755	-15.6
0.50	7.5932	-2.3721	7.9551	-17.3	0.1200	0.0375	0.1257	17.3
0.55	4.1489	-1.7165	4.4900	-22.5	0.2058	0.0851	0.2227	22.5
0.60	2.7746	-0.5854	2.8356	-11.9	0.3451	0.0728	0.3527	11.9
0.65	2.1384	0.3996	2.1754	10.6	0.4519	-0.0845	0.4597	-10.6
0.70	1.8333	1.2990	2.2469	35.3	0.3631	-0.2573	0.4451	-35.3
0.75	1.7577	2.2140	2.8269	51.6	0.2199	-0.2771	0.3537	-51.6
0.80	1.9918	3.2434	3.8061	58.4	0.1375	-0.2239	0.2627	-58.4
0.85	2.9276	4.3508	5.2440	56.1	0.1065	-0.1582	0.1907	-56.1
0.90	5.1226	4.4072	6.7576	40.7	0.1122	-0.0965	0.1480	-40.7
0.95	5.9628	1.9551	6.2751	18.2	0.1514	-0.0497	0.1594	-18.2
1.00	4.4399	0.8103	4.5132	10.3	0.2180	-0.0398	0.2216	-10.3
1.05	3.2949	1.0463	3.4570	17.6	0.2757	-0.0376	0.2895	-17.6
1.10	2.6852	1.5775	3.1143	30.4	0.2769	-0.1626	0.3211	-30.4
1.15	2.3665	2.1436	3.1930	42.2	0.2321	-0.2103	0.3132	-42.2
1.20	2.2231	2.7117	3.5065	50.7	0.1808	-0.2205	0.2852	-50.7
1.25	2.2302	3.2883	3.9733	55.9	0.1413	-0.2083	0.2517	-55.9
1.30	2.4367	3.8564	4.5617	57.7	0.1171	-0.1853	0.2192	-57.7
1.35	2.9350	4.2475	5.1629	55.4	0.1101	-0.1593	0.1937	-55.4
1.40	3.4528	4.0490	5.3213	49.5	0.1219	-0.1430	0.1879	-49.5
1.45	3.2191	3.6653	4.8782	48.7	0.1353	-0.1540	0.2050	-48.7
1.50	2.6987	3.8856	4.7309	55.2	0.1206	-0.1736	0.2114	-55.2
1.55	2.3989	4.4653	5.0689	61.8	0.0934	-0.1738	0.1973	-61.8
1.60	2.3247	5.1891	5.6861	65.9	0.0719	-0.1605	0.1759	-65.9
1.65	2.4584	6.0254	6.5077	67.8	0.0581	-0.1423	0.1537	-67.8
1.70	2.8721	6.9951	7.5617	67.7	0.0502	-0.1223	0.1322	-67.7
1.75	3.7815	8.0764	8.9179	64.9	0.0475	-0.1016	0.1121	-64.9
1.80	5.5977	8.9592	10.5642	58.0	0.0502	-0.0803	0.0947	-58.0
1.85	8.4426	8.4576	11.9502	45.1	0.0591	-0.0592	0.0837	-45.1
1.90	10.2493	5.4426	11.5047	29.0	0.0761	-0.0404	0.0852	-29.0
1.95	9.0854	2.5199	9.4284	15.5	0.1022	-0.0263	0.1091	-15.5
2.00	7.0696	1.5778	7.2435	12.6	0.1347	-0.0301	0.1381	-12.6
2.05	5.5753	1.7235	5.8356	17.2	0.1637	-0.0506	0.1714	-17.2
2.10	4.6215	2.2174	5.1259	25.6	0.1759	-0.0844	0.1951	-25.6

Set III ($L/2A = 40$) Table C

C) SOURCE L/4 OFF CENTER L/(λ BDA)	G	B	MAG Y	ANG Y	K	X	MAG Z	ANG Z
0.05	0.0001	0.4654	0.4654	90.0	0.0003	-2.1488	2.1488	-90.0
0.10	0.0012	0.9489	0.9489	89.9	0.0013	-1.0539	1.0539	-89.9
0.15	0.0067	1.4730	1.4731	89.7	0.0031	-0.6788	0.6788	-89.7
0.20	0.0260	2.0717	2.0719	89.3	0.0061	-0.4826	0.4827	-89.3
0.25	0.0844	2.8039	2.8051	88.3	0.0107	-0.3563	0.3565	-88.3
0.30	0.2628	3.7857	3.7948	86.0	0.0183	-0.2629	0.2635	-86.0
0.35	0.8782	5.2492	5.3222	80.5	0.0310	-0.1853	0.1879	-80.5
0.40	3.4097	7.1493	7.9208	64.5	0.0543	-0.1140	0.1263	-64.5
0.45	8.2578	3.5995	9.0082	23.6	0.1018	-0.0444	0.1110	-23.6
0.50	4.8613	-0.1410	4.8633	-1.7	0.2055	0.0060	0.2056	1.7
0.55	2.6271	0.5741	2.6891	12.3	0.3633	-0.0794	0.3719	-12.3
0.60	1.7606	1.6306	2.3997	42.8	0.3057	-0.2832	0.4167	-42.8
0.65	1.4018	2.6634	3.0098	62.2	0.1547	-0.2940	0.3322	-62.2
0.70	1.3200	3.7588	3.9838	70.7	0.0832	-0.2368	0.2510	-70.7
0.75	1.5345	5.0526	5.2805	73.1	0.0550	-0.1812	0.1894	-73.1
0.80	2.3349	6.6967	7.0921	70.8	0.0464	-0.1331	0.1410	-70.8
0.85	4.6490	8.5387	9.7223	61.4	0.0492	-0.0903	0.1029	-61.4
0.90	9.6687	7.9648	12.5268	39.5	0.0616	-0.0508	0.0798	-39.5
0.95	11.4011	1.8799	11.5550	9.4	0.0854	-0.0141	0.0865	-9.4
1.00	7.8832	-1.0492	7.9527	-7.6	0.1246	0.0166	0.1257	7.6
1.05	5.2999	-0.8823	5.3728	-9.5	0.1830	0.0306	0.1861	9.5
1.10	3.9190	-0.0845	3.9199	-1.2	0.2550	0.0055	0.2551	1.2
1.15	3.1641	0.7750	3.2577	13.8	0.2982	-0.0730	0.3070	-13.8
1.20	2.7622	1.6354	3.2100	30.6	0.2681	-0.1587	0.3115	-30.6
1.25	2.6432	2.5348	3.6622	43.8	0.1971	-0.1890	0.2731	-43.8
1.30	2.9136	3.4948	4.5500	50.2	0.1407	-0.1688	0.2198	-50.2
1.35	3.8814	4.2611	5.7639	47.7	0.1168	-0.1283	0.1735	-47.7
1.40	5.3268	3.8181	6.5539	35.6	0.1240	-0.0889	0.1526	-35.6
1.45	5.4407	2.3608	5.9308	23.5	0.1547	-0.0671	0.1686	-23.5
1.50	4.5323	1.7526	4.8594	21.1	0.1919	-0.0742	0.2058	-21.1
1.55	3.7612	1.8561	4.1942	25.3	0.2138	-0.1055	0.2384	-25.3
1.60	3.2653	2.1899	3.9317	33.8	0.2112	-0.1417	0.2543	-33.8
1.65	2.9537	2.5783	3.9207	41.1	0.1921	-0.1677	0.2551	-41.1
1.70	2.7577	2.9709	4.0535	47.1	0.1678	-0.1808	0.2467	-47.1
1.75	2.6391	3.3515	4.2659	51.8	0.1450	-0.1842	0.2344	-51.8
1.80	2.5719	3.7078	4.5125	55.3	0.1263	-0.1821	0.2216	-55.3
1.85	2.5148	4.0303	4.7505	58.0	0.1114	-0.1756	0.2105	-58.0
1.90	2.4135	4.3696	4.9918	61.1	0.0969	-0.1754	0.2003	-61.1
1.95	2.3184	4.8097	5.3393	64.3	0.0813	-0.1687	0.1873	-64.3
2.00	2.3056	5.3234	5.8012	66.6	0.0685	-0.1582	0.1724	-66.6
2.05	2.3788	5.8780	6.3411	68.0	0.0592	-0.1462	0.1577	-68.0
2.10	2.5466	6.4795	6.7620	68.5	0.0525	-0.1337	0.1436	-68.5

Set III ($L/2A = 40$) Table D

D)	SOURCE	3L/8 OFF CENTER	B	MAG Y	ANG Y	R	X	MAG -	ANG Z
	L/(LAMRDA)	G							
0.05	0.0000	0.3458	0.3458	90.0	0.0002	-2.8921		2.8921	-90.0
0.10	0.0005	0.6994	0.6994	90.0	0.0010	-1.4299		1.4299	-90.0
0.15	0.0029	1.0704	1.0704	89.8	0.0025	-0.9342		0.9342	-89.8
0.20	0.0111	1.4727	1.4727	89.6	0.0051	-0.6790		0.6790	-89.6
0.25	0.0354	1.9298	1.9302	88.9	0.0095	-0.5180		0.5181	-88.9
0.30	0.1083	2.4869	2.4893	87.5	0.0175	-0.4013		0.4017	-87.5
0.35	0.3538	3.2310	3.2504	83.8	0.0335	-0.3058		0.3077	-83.8
0.40	1.3391	4.1310	4.3426	72.0	0.0710	-0.2191		0.2303	-72.0
0.45	3.1542	2.9280	4.3037	42.9	0.1703	-0.1581		0.2324	-42.9
0.50	1.8076	1.7574	2.5211	44.2	0.2844	-0.2765		0.3967	-44.2
0.55	0.9589	2.3035	2.4951	67.4	0.1540	-0.3700		0.4008	-67.4
0.60	0.6457	2.9940	3.0628	77.3	0.0688	-0.3192		0.3265	-77.3
0.65	0.5412	3.7094	3.7487	81.7	0.0385	-0.2640		0.2666	-81.7
0.70	0.5736	4.5027	4.5391	82.7	0.0278	-0.2185		0.2203	-82.7
0.75	0.7891	5.4526	5.5094	81.8	0.0260	-0.1796		0.1815	-81.8
0.80	1.3995	6.6427	6.7885	78.1	0.0304	-0.1441		0.1473	-78.1
0.85	3.0257	7.9304	8.4880	69.1	0.0420	-0.1101		0.1178	-69.1
0.90	6.3592	7.5175	9.8464	49.8	0.0656	-0.0775		0.1016	-49.8
0.95	7.2615	3.5908	8.1008	26.3	0.1107	-0.0547		0.1234	-26.3
1.00	4.7910	2.0423	5.2082	23.1	0.1766	-0.1766		0.1920	-23.1
1.05	3.0937	2.5927	4.0300	39.9	0.1905	-0.1590		0.2481	-39.9
1.10	2.2599	3.5693	4.2246	57.7	0.1266	-0.2600		0.2367	-57.7
1.15	1.9101	4.6734	5.0487	67.8	0.0749	-0.1833		0.1981	-67.8
1.20	1.9237	5.9045	6.2100	72.0	0.0499	-0.1531		0.1610	-72.0
1.25	2.4025	7.3289	7.7125	71.9	0.0404	-0.1232		0.1297	-71.9
1.30	3.7550	8.8912	9.6516	67.1	0.0403	-0.0954		0.1036	-67.1
1.35	6.7137	9.7433	11.8324	55.4	0.0480	-0.0696		0.0845	-55.4
1.40	10.2443	7.3482	12.6073	35.7	0.0645	-0.0462		0.0793	-35.7
1.45	9.7965	3.0928	10.2731	17.5	0.0928	-0.0293		0.0973	-17.5
1.50	7.1095	1.6322	7.2945	12.9	0.1336	-0.0307		0.1371	-12.9
1.55	5.1280	2.0462	5.5212	21.8	0.1682	-0.0671		0.1811	-21.8
1.60	3.9998	3.0440	5.0264	37.3	0.1583	-0.1205		0.1989	-37.3
1.65	3.4581	4.2521	5.4808	50.9	0.1151	-0.1415		0.1825	-50.9
1.70	3.4173	5.6206	6.5779	58.7	0.0790	-0.1299		0.1520	-58.7
1.75	4.0294	7.1363	8.1952	60.5	0.0600	-0.1063		0.1220	-60.5
1.80	5.7307	8.5079	10.2579	56.0	0.0545	-0.0809		0.0975	-56.0
1.85	8.7545	8.4581	12.1730	44.0	0.0591	-0.0571		0.0621	-44.0
1.90	10.9410	5.5430	12.2650	26.9	0.0727	-0.0234		0.0815	-26.9
1.95	9.8925	2.4245	10.1853	13.8	0.0954	-0.0368		0.0982	-13.8
2.00	7.7301	1.4079	7.8573	10.3	0.1252	-0.0228		0.1273	-10.3
2.05	6.0600	1.6767	6.2877	15.5	0.1533	-0.0424		0.1590	-15.5
2.10	5.0008	2.4448	5.5664	26.1	0.1614	-0.0789		0.1796	-26.1

Set III (L/2A = 40) Table E

E) SOURCE L/4 OFF CENTER, Y=0 AT CENTER L/(LAMBDA)	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0000	0.3730	0.3730	90.0	0.0001	-2.6809	2.6809	-90.0
0.10	0.0003	0.7515	0.7515	90.0	0.0005	-1.3307	1.3307	-90.0
0.15	0.0014	1.1413	1.1413	89.9	0.0011	-0.8762	0.8762	-89.9
0.20	0.0047	1.5492	1.5492	89.8	0.0020	-0.6455	0.6455	-89.8
0.25	0.0126	1.9835	1.9835	89.6	0.0032	-0.5042	0.5042	-89.6
0.30	0.0292	2.4546	2.4547	89.3	0.0049	-0.4073	0.4074	-89.3
0.35	0.0622	2.9763	2.9770	88.8	0.0070	-0.3358	0.3359	-88.8
0.40	0.1252	3.5672	3.5694	88.0	0.0098	-0.2800	0.2802	-88.0
0.45	0.2444	4.2509	4.2579	86.7	0.0135	-0.2345	0.2349	-86.7
0.50	0.4702	5.0551	5.0769	84.7	0.0182	-0.1961	0.1970	-84.7
0.55	0.8995	5.9968	6.0639	81.5	0.0245	-0.1631	0.1649	-81.5
0.60	1.7032	7.0254	7.2290	76.4	0.0326	-0.1344	0.1383	-76.4
0.65	3.0732	7.8713	8.4500	68.7	0.0430	-0.1102	0.1183	-68.7
0.70	4.8195	7.9787	9.3213	58.9	0.0555	-0.0918	0.1073	-58.9
0.75	6.0376	7.3593	9.5191	50.6	0.0666	-0.0812	0.1051	-50.6
0.80	6.6071	7.2205	9.7873	47.5	0.0690	-0.0754	0.1022	-47.5
0.85	8.1815	8.0223	11.4534	44.4	0.0623	-0.0611	0.0873	-44.4
0.90	12.5027	6.9494	14.3043	29.1	0.0611	-0.0340	0.0699	-29.1
0.95	13.7042	0.6256	13.7185	2.6	0.0728	-0.0033	0.0729	-2.6
1.00	9.8011	-2.4394	10.1001	-14.0	0.0961	0.0239	0.0990	14.0
1.05	6.9350	-2.3817	7.3326	-19.0	0.1290	0.0443	0.1364	19.0
1.10	5.3363	-1.7071	5.6027	-17.7	0.1700	0.0544	0.1785	17.7
1.15	4.3950	-1.0148	4.5106	-13.0	0.2160	0.0499	0.2217	13.0
1.20	3.7962	-0.3974	3.8169	-6.0	0.2606	0.0273	0.2620	6.0
1.25	3.3926	0.1463	3.3957	2.5	0.2942	-0.0127	0.2945	-2.5
1.30	3.1111	0.6310	3.1744	11.5	0.3087	-0.0626	0.3150	-11.5
1.35	2.9132	1.0700	3.1035	20.2	0.3025	-0.1111	0.3222	-20.2
1.40	2.7780	1.4715	3.1437	27.9	0.2811	-0.1489	0.3181	-27.9
1.45	2.6933	1.8381	3.2607	34.3	0.2533	-0.1729	0.3067	-34.3
1.50	2.6480	2.1652	3.4206	39.3	0.2263	-0.1851	0.2923	-39.3
1.55	2.6230	2.4462	3.5866	43.0	0.2039	-0.1902	0.2788	-43.0
1.60	2.5885	2.6870	3.7310	46.1	0.1859	-0.1930	0.2680	-46.1
1.65	2.5258	2.9180	3.8594	49.1	0.1696	-0.1959	0.2591	-49.1
1.70	2.4482	3.1697	4.0051	52.3	0.1526	-0.1976	0.2497	-52.3
1.75	2.3819	3.4444	4.1878	55.3	0.1358	-0.1964	0.2388	-55.3
1.80	2.3372	3.7208	4.3940	57.9	0.1211	-0.1927	0.2276	-57.9
1.85	2.2873	3.9764	4.5873	60.1	0.1087	-0.1890	0.2180	-60.1
1.90	2.1818	4.2517	4.7788	62.8	0.0955	-0.1862	0.2093	-62.8
1.95	2.0700	4.6231	5.0653	65.9	0.0807	-0.1802	0.1974	-65.9
2.00	2.0227	5.0558	5.4454	68.2	0.0682	-0.1705	0.1836	-68.2
2.05	2.0327	5.5096	5.8726	69.7	0.0589	-0.1598	0.1703	-69.7
2.10	2.0872	5.9824	6.3360	70.8	0.0520	-0.1490	0.1578	-70.8

Set III ($L/2A = 40$) Table F

F) SOURCE L/4 OFF CENTER, L/(λ BDA)	G	B	MAG Y	ANG Y	Y=(-J/600)CDT(KL/4)	R	AT CENTER X	MAG	ANG Z
0.05	0.0001	0.4678	0.4678	90.0	0.0003	0.0003	-2.1374	2.1374	-90.0
0.10	0.0013	0.9727	0.9727	89.9	0.0014	0.0014	-1.0281	1.0281	-89.9
0.15	0.0095	1.5871	1.5872	89.7	0.0038	0.0038	-0.6300	0.6301	-89.7
0.20	0.0636	2.5844	2.5852	88.6	0.0095	0.0095	-0.3867	0.3868	-88.6
0.25	0.2795	8.0374	8.3544	74.2	0.0327	0.0327	-0.1152	0.1197	-74.2
0.30	0.2365	-0.1039	0.2583	-23.7	3.5444	3.5444	1.5562	3.8710	23.7
0.35	0.0268	1.5776	1.5779	87.0	0.0108	0.0108	-0.6337	0.6338	-89.0
0.40	0.0042	2.4406	2.4406	89.9	0.0007	0.0007	-0.4097	0.4097	-89.9
0.45	0.0217	3.1966	3.1966	89.6	0.0021	0.0021	-0.3128	0.3128	-89.6
0.50	0.0852	3.9903	3.9912	88.8	0.0053	0.0053	-0.2505	0.2506	-88.8
0.55	0.2356	4.9002	4.9059	87.2	0.0098	0.0098	-0.2036	0.2038	-87.2
0.60	0.5683	5.9934	6.0203	84.6	0.0157	0.0157	-0.1654	0.1661	-84.6
0.65	1.2927	7.2959	7.4096	80.0	0.0235	0.0235	-0.1329	0.1350	-80.0
0.70	2.7708	8.5957	9.0312	72.1	0.0349	0.0349	-0.1054	0.1107	-72.1
0.75	5.0496	9.0949	10.4027	61.0	0.0467	0.0467	-0.0847	0.0961	-61.0
0.80	6.9460	8.5528	11.0180	50.9	0.0572	0.0572	-0.0705	0.0908	-50.9
0.85	8.7382	8.5066	12.1950	44.2	0.0588	0.0588	-0.0572	0.0820	-44.2
0.90	12.8270	7.0470	14.6353	28.8	0.0599	0.0599	-0.0329	0.0683	-28.8
0.95	13.8248	0.6250	13.8390	2.6	0.0722	0.0722	-0.0033	0.0723	-2.6
1.00	9.8011	-2.4394	10.1001	-14.0	0.0961	0.0961	0.0239	0.0990	14.0
1.05	6.8693	-2.3537	7.2614	-18.9	0.1303	0.1303	0.0446	0.1377	18.9
1.10	5.2357	-1.6451	5.4881	-17.4	0.1738	0.1738	0.0546	0.1822	17.4
1.15	4.2768	-0.9178	4.3741	-12.1	0.2235	0.2235	0.0480	0.2286	12.1
1.20	3.6710	-0.2642	3.6805	-4.1	0.2710	0.2710	0.0195	0.2717	4.1
1.25	3.2687	0.3187	3.2842	5.6	0.3031	0.3031	-0.0296	0.3045	-5.6
1.30	2.9977	0.8485	3.1155	5.8	0.3088	0.3088	-0.0874	0.3210	-15.8
1.35	2.8251	1.3404	3.1270	25.4	0.2889	0.2889	-0.1371	0.3198	-25.4
1.40	2.7415	1.8014	3.2803	33.3	0.2548	0.2548	-0.1674	0.3048	-33.3
1.45	2.7528	2.2182	3.5353	38.9	0.2203	0.2203	-0.1775	0.2829	-38.9
1.50	2.8534	2.5396	3.8199	41.7	0.1956	0.1956	-0.1740	0.2618	-41.7
1.55	2.9580	2.7048	4.0082	42.4	0.1841	0.1841	-0.1684	0.2495	-42.4
1.60	2.9316	2.7811	4.0409	43.5	0.1795	0.1795	-0.1703	0.2475	-43.5
1.65	2.7889	2.9214	4.0389	46.3	0.1710	0.1710	-0.1791	0.2476	-46.3
1.70	2.6381	3.1597	4.1163	50.1	0.1557	0.1557	-0.1865	0.2429	-50.1
1.75	2.5312	3.4522	4.2807	53.8	0.1381	0.1381	-0.1884	0.2336	-53.8
1.80	2.4697	3.7549	4.4943	56.7	0.1223	0.1223	-0.1859	0.2225	-56.7
1.85	2.4190	4.0426	4.7110	59.1	0.1090	0.1090	-0.1821	0.2123	-59.1
1.90	2.3285	4.3599	4.9427	61.9	0.0953	0.0953	-0.1785	0.2023	-61.9
1.95	2.2566	4.7927	5.2974	64.8	0.0804	0.0804	-0.1708	0.1888	-64.8
2.00	2.0227	5.0558	5.4454	68.2	0.0682	0.0682	-0.1705	0.1836	-68.2
2.05	2.5856	5.9304	6.4696	66.4	0.0618	0.0618	-0.1417	0.1546	-66.4
2.10	3.5658	6.2902	7.2305	60.5	0.0682	0.0682	-0.1203	0.1383	-60.5

Set III (L/2A = 40) Table G

G)	SOURCE L/4 OFF CENTER, L/(LAMBDA)	G	B	MAG Y	ANG Y	Y=(-J/30G)COT(KL/4)	R	MIOS	AT CENTER X	MAG Z	ANG Z
0.05	0.0001	0.4666	0.4666	90.0	0.0003	-2.1432	0.0003	0.0003	-2.1432	2.1432	-90.0
0.10	0.0012	0.9601	0.9601	89.9	0.0013	-1.0416	0.0013	0.0013	-1.0416	1.0416	-89.9
0.15	0.0079	1.5217	1.5217	89.7	0.0034	-0.6571	0.0034	0.0034	-0.6571	0.6571	-89.7
0.20	0.0367	2.2437	2.2440	89.1	0.0073	-0.4456	0.0073	0.0073	-0.4456	0.4456	-89.1
0.25	0.1847	3.4397	3.4446	86.9	0.0156	-0.2899	0.0156	0.0156	-0.2899	0.2903	-86.9
0.30	2.2847	7.2732	7.6236	72.6	0.0393	-0.1251	0.0393	0.0393	-0.1251	0.1312	-72.6
0.35	2.0879	-2.4220	3.1977	-49.2	0.2042	0.2369	0.2042	0.2042	0.2369	0.3127	49.2
0.40	0.2947	0.8222	0.8734	70.3	0.3863	-1.0778	0.3863	0.3863	-1.0778	1.1449	-70.3
0.45	0.0843	2.0841	2.0858	87.7	0.0194	-0.4790	0.0194	0.0194	-0.4790	0.4794	-87.7
0.50	0.0290	3.0300	3.0361	89.5	0.0032	-0.3300	0.0032	0.0032	-0.3300	0.3300	-89.5
0.55	0.0439	3.9602	3.9605	89.4	0.0028	-0.2525	0.0028	0.0028	-0.2525	0.2525	-89.4
0.60	0.1538	5.0127	5.0151	88.2	0.0061	-0.1993	0.0061	0.0061	-0.1993	0.1994	-88.2
0.65	0.4667	6.3084	6.3257	85.8	0.0117	-0.1577	0.0117	0.0117	-0.1577	0.1581	-85.8
0.70	1.2735	7.9433	8.0447	80.9	0.0197	-0.1227	0.0197	0.0197	-0.1227	0.1243	-80.9
0.75	3.1994	9.6710	10.1865	71.7	0.0308	-0.0932	0.0308	0.0308	-0.0932	0.0962	-71.7
0.80	6.3845	10.1590	11.9987	57.9	0.0443	-0.0706	0.0443	0.0443	-0.0706	0.0833	-57.9
0.85	9.2310	9.3316	13.1259	45.3	0.0536	-0.0542	0.0536	0.0536	-0.0542	0.0762	-45.3
0.90	13.1961	7.2150	15.0398	28.7	0.0583	-0.0319	0.0583	0.0583	-0.0319	0.0665	-28.7
0.95	13.9555	0.6300	15.9697	2.6	0.0715	-0.0032	0.0715	0.0715	-0.0032	0.0716	-2.6
1.00	9.8011	-2.4394	10.1601	-14.0	0.0961	0.0239	0.0961	0.0961	0.0239	0.0990	14.0
1.05	6.8080	-2.3260	7.1944	-18.9	0.1315	0.0449	0.1315	0.1315	0.0449	0.1390	18.9
1.10	5.1470	-1.5864	5.3859	-17.1	0.1774	0.0547	0.1774	0.1774	0.0547	0.1857	17.1
1.15	4.1769	-0.8292	4.2584	-11.2	0.2303	0.0457	0.2303	0.2303	0.0457	0.2348	11.2
1.20	3.5689	-0.1454	3.5719	-2.3	0.2797	0.0114	0.2797	0.2797	0.0114	0.2800	2.3
1.25	3.1712	0.4709	3.2060	8.4	0.3085	-0.0458	0.3085	0.3085	-0.0458	0.3119	-8.4
1.30	2.9138	1.0407	3.0941	19.7	0.3044	-0.1087	0.3044	0.3044	-0.1087	0.3232	-19.7
1.35	2.7718	1.5820	3.1915	29.7	0.2721	-0.1553	0.2721	0.2721	-0.1553	0.3133	-29.7
1.40	2.7545	2.0975	3.4622	37.3	0.2298	-0.1750	0.2298	0.2298	-0.1750	0.2888	-37.3
1.45	2.8940	2.5399	3.8505	41.3	0.1952	-0.1713	0.1952	0.1952	-0.1713	0.2597	-41.3
1.50	3.1552	2.7686	4.1976	41.3	0.1791	-0.1571	0.1791	0.1791	-0.1571	0.2382	-41.3
1.55	3.2848	2.7263	4.2688	39.7	0.1803	-0.1496	0.1803	0.1803	-0.1496	0.2343	-39.7
1.60	3.1333	2.6927	4.1314	40.7	0.1836	-0.1578	0.1836	0.1836	-0.1578	0.2421	-40.7
1.65	2.8921	2.8418	4.0547	44.5	0.1759	-0.1729	0.1759	0.1759	-0.1729	0.2466	-44.5
1.70	2.7000	3.1115	4.1197	49.1	0.1591	-0.1833	0.1591	0.1591	-0.1833	0.2427	-49.1
1.75	2.5780	3.4271	4.2885	53.0	0.1402	-0.1863	0.1402	0.1402	-0.1863	0.2332	-53.0
1.80	2.5104	3.7451	4.5086	56.2	0.1235	-0.1842	0.1235	0.1235	-0.1842	0.2218	-56.2
1.85	2.4566	4.0432	4.7309	58.7	0.1098	-0.1806	0.1098	0.1098	-0.1806	0.2114	-58.7
1.90	2.3631	4.3673	4.9656	61.6	0.0958	-0.1771	0.0958	0.0958	-0.1771	0.2014	-61.6
1.95	2.2839	4.8018	5.3172	64.6	0.0808	-0.1698	0.0808	0.0808	-0.1698	0.1881	-64.6
2.00	2.0227	5.0558	5.4454	68.2	0.0682	-0.1705	0.0682	0.0682	-0.1705	0.1836	-68.2
2.05	2.4636	5.9084	6.4015	67.4	0.0601	-0.1442	0.0601	0.0601	-0.1442	0.1562	-67.4
2.10	2.8708	6.5614	7.1620	66.4	0.0560	-0.1279	0.0560	0.0560	-0.1279	0.1396	-66.4

Set III ($L/2A = 40$) Table H

H)	SOURCE L/4 OFF CENTER, L/(LAMBDA)	G	B	MAG Y	ANG Y	Y=(-J/100)COT(KL/4); MHUS AT CENTER R	X	MAG Z	ANG Z
0.05	0.0001	0.4658	0.4658	0.4658	90.0	0.0003	-2.1469	2.1469	-90.0
0.10	0.0012	0.9525	0.9525	0.9525	89.9	0.0013	-1.0499	1.0499	-89.9
0.15	0.0071	1.4878	1.4878	1.4878	89.7	0.0032	-0.6721	0.6721	-89.7
0.20	0.0287	2.1187	2.1187	2.1189	89.2	0.0064	-0.4719	0.4719	-89.2
0.25	0.1030	2.9438	2.9438	2.9456	88.0	0.0119	-0.3393	0.3395	-88.0
0.30	0.3936	4.2225	4.2225	4.2408	84.7	0.0219	-0.2348	0.2358	-84.7
0.35	2.1195	6.7017	6.7017	7.0289	72.4	0.0429	-0.1356	0.1423	-72.4
0.40	9.7301	1.6621	1.6621	9.8710	9.7	0.0999	-0.0171	0.1013	-9.7
0.45	2.5757	-0.9687	-0.9687	2.7519	-20.6	0.3401	0.1279	0.3634	20.6
0.50	1.0011	0.8110	0.8110	1.2883	39.0	0.6031	-0.4886	0.7762	-39.0
0.55	0.5384	2.0414	2.0414	2.1112	75.2	0.1208	-0.4580	0.4737	-75.2
0.60	0.3451	3.1007	3.1007	3.1198	83.6	0.0355	-0.3186	0.3205	-83.6
0.65	0.2785	4.2008	4.2008	4.2101	86.2	0.0157	-0.2370	0.2375	-86.2
0.70	0.3493	5.5161	5.5161	5.5271	86.4	0.0114	-0.1806	0.1809	-86.4
0.75	0.7160	7.2867	7.2867	7.3218	84.4	0.0134	-0.1359	0.1366	-84.4
0.80	1.9916	9.8923	9.8923	10.0908	78.6	0.0196	-0.0972	0.0991	-78.6
0.85	6.5362	12.9692	12.9692	14.5232	63.3	0.0310	-0.0615	0.0689	-63.3
0.90	14.6147	9.3079	9.3079	17.3271	32.5	0.0487	-0.0310	0.0577	-32.5
0.95	14.5954	0.7428	0.7428	14.6143	2.9	0.0683	-0.0035	0.0684	-2.9
1.00	9.8011	-2.4394	-2.4394	10.1001	-14.0	0.0961	0.0239	0.0990	14.0
1.05	6.6002	-2.2203	-2.2203	6.9636	-18.6	0.1361	0.0458	0.1436	18.6
1.10	4.8788	-1.3830	-1.3830	5.0710	-15.8	0.1897	0.0538	0.1972	15.8
1.15	3.8993	-0.5438	-0.5438	3.9370	-7.9	0.2516	0.0351	0.2540	7.9
1.20	3.3037	0.2195	0.2195	3.3110	3.8	0.3014	-0.0200	0.3020	-3.8
1.25	2.9366	0.9272	0.9272	3.0795	17.5	0.3097	-0.0978	0.3247	-17.5
1.30	2.7431	1.6140	1.6140	3.1827	30.5	0.2708	-0.1593	0.3142	-30.5
1.35	2.7445	2.3028	2.3028	3.5826	40.0	0.2138	-0.1794	0.2791	-40.0
1.40	3.0464	2.9326	2.9326	4.2285	43.9	0.1704	-0.1640	0.2365	-43.9
1.45	3.6835	3.1693	3.1693	4.8593	40.7	0.1560	-0.1342	0.2058	-40.7
1.50	4.0524	2.7406	2.7406	4.8921	34.1	0.1693	-0.1145	0.2044	-34.1
1.55	3.7432	2.3724	2.3724	4.4317	32.4	0.1906	-0.1208	0.2256	-32.4
1.60	3.2911	2.4268	2.4268	4.0891	36.4	0.1968	-0.1451	0.2446	-36.4
1.65	2.9585	2.6955	2.6955	4.0023	42.3	0.1847	-0.1683	0.2499	-42.3
1.70	2.7458	3.0339	3.0339	4.0919	47.9	0.1640	-0.1812	0.2444	-47.9
1.75	2.6189	3.3862	3.3862	4.2808	52.3	0.1429	-0.1848	0.2336	-52.3
1.80	2.5489	3.7257	3.7257	4.5142	55.6	0.1251	-0.1828	0.2215	-55.6
1.85	2.4925	4.0373	4.0373	4.7447	58.3	0.1107	-0.1793	0.2108	-58.3
1.90	2.3944	4.3699	4.3699	4.9829	61.3	0.0964	-0.1760	0.2007	-61.3
1.95	2.3059	4.8073	4.8073	5.3317	64.4	0.0811	-0.1691	0.1876	-64.4
2.00	2.0227	5.0558	5.0558	5.4454	68.2	0.0682	-0.1705	0.1836	-68.2
2.05	2.4038	5.8884	5.8884	6.3602	67.8	0.0594	-0.1456	0.1572	-67.8
2.10	2.6267	6.5122	6.5122	7.0220	68.0	0.0533	-0.1321	0.1424	-68.0

Set III (L/2A = 40) Table I

I) SOURCE L/4 OFF CENTER, GROUND PLANE AT CENTER							
L/(LAMBDA)	G	B	MAG Y	ANG Y	K	X	MAG Z
							ANG Z
0.05	0.0001	0.5846	0.5846	90.0	0.0004	-1.7104	1.7104
0.10	0.0023	1.2023	1.2023	89.9	0.0016	-0.8318	0.8318
0.15	0.0135	1.8945	1.8945	89.6	0.0038	-0.5278	0.5278
0.20	0.0518	2.7249	2.7254	88.9	0.0070	-0.3669	0.3669
0.25	0.1683	3.8070	3.8107	87.5	0.0116	-0.2622	0.2624
0.30	0.5245	5.3673	5.3928	84.4	0.0180	-0.1846	0.1854
0.35	1.7531	7.8621	8.0551	77.4	0.0270	-0.1212	0.1241
0.40	6.8114	11.1913	13.1012	58.7	0.0397	-0.0652	0.0753
0.45	16.4978	3.5679	16.8792	12.2	0.0579	-0.0125	0.0592
0.50	9.6847	-4.5090	10.6829	-25.0	0.0849	0.0395	0.0936
0.55	5.1767	-3.7770	6.4081	-36.1	0.1261	0.0920	0.1561
0.60	3.3650	-2.5088	4.1973	-36.7	0.1910	0.1424	0.2382
0.65	2.4889	-1.5068	2.9095	-31.2	0.2940	0.1780	0.3437
0.70	1.9924	-0.7174	2.1176	-19.8	0.4443	0.1600	0.4722
0.75	1.6777	-0.0629	1.6788	-2.1	0.5952	0.0223	0.5956
0.80	1.4614	0.5085	1.5473	19.2	0.6104	-0.2124	0.6463
0.85	1.3037	1.0308	1.6620	38.3	0.4720	-0.3732	0.6017
0.90	1.1840	1.5280	1.9330	52.2	0.3169	-0.4669	0.5173
0.95	1.0912	2.0192	2.2952	61.6	0.2071	-0.3833	0.4357
1.00	1.0204	2.5225	2.7211	68.0	0.1378	-0.3407	0.3675
1.05	0.9721	3.0579	3.2087	72.4	0.0944	-0.2970	0.3116
1.10	0.9538	3.6513	3.7738	75.4	0.0670	-0.2564	0.2650
1.15	0.9868	4.3395	4.4503	77.2	0.0498	-0.2191	0.2247
1.20	1.1248	5.1766	5.2974	77.7	0.0401	-0.1845	0.1888
1.25	1.5037	6.2339	6.4127	76.4	0.0366	-0.1516	0.1559
1.30	2.4712	7.5239	7.9193	71.8	0.0394	-0.1200	0.1263
1.35	4.7146	8.5101	9.7288	61.0	0.0498	-0.0899	0.1028
1.40	7.8345	7.1401	10.6000	42.3	0.0697	-0.0635	0.0943
1.45	8.2364	3.7881	9.0658	24.7	0.1002	-0.0461	0.1103
1.50	6.5536	2.1697	6.9034	18.3	0.1375	-0.0455	0.1449
1.55	5.1137	2.0016	5.4914	21.4	0.1696	-0.0664	0.1821
1.60	4.1980	2.3151	4.7941	28.9	0.1827	-0.1007	0.2086
1.65	3.6266	2.7556	4.5547	37.2	0.1748	-0.1328	0.2196
1.70	3.2615	3.2232	4.5855	44.7	0.1551	-0.1533	0.2181
1.75	3.0252	3.6951	4.7755	50.7	0.1327	-0.1620	0.2094
1.80	2.8761	4.1710	5.0665	55.4	0.1120	-0.1625	0.1974
1.85	2.7930	4.6586	5.4317	59.1	0.0947	-0.1579	0.1841
1.90	2.7670	5.1693	5.8633	61.8	0.0805	-0.1504	0.1706
1.95	2.7995	5.7171	6.3657	63.9	0.0691	-0.1411	0.1571
2.00	2.9030	6.3194	6.9543	65.3	0.0600	-0.1307	0.1438
2.05	3.1055	6.9972	7.6554	66.1	0.0530	-0.1194	0.1306
2.10	3.4629	7.7737	8.5101	66.0	0.0473	-0.1073	0.1115

J) MUTUAL ADMITTANCES OR IMPEDANCES, SOURCE $L/4$ OFF CENTER,Y=0 AT CENTER, OUTPUT POINT $L/4$ FROM CENTER

$L/(\lambda/4)$	G	R	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0000	0.0269	0.0269	90.0	0.0220	-37.1754	37.1754	-90.0
0.10	0.0003	0.0560	0.0560	89.7	0.0834	-17.8613	17.8615	-89.7
0.15	0.0014	0.0896	0.0897	89.1	0.1714	-11.1524	11.1537	-89.1
0.20	0.0046	0.1307	0.1308	88.0	0.2701	-7.6412	7.6459	-88.0
0.25	0.0122	0.1827	0.1831	85.2	0.3640	-5.4483	5.4605	-85.2
0.30	0.0280	0.2504	0.2520	83.6	0.4411	-3.9444	3.9690	-83.6
0.35	0.0588	0.3400	0.3450	80.2	0.4943	-2.8558	2.8983	-80.2
0.40	0.1172	0.4598	0.4745	75.7	0.5206	-2.0421	2.1074	-75.7
0.45	0.2266	0.6199	0.6600	69.9	0.5202	-1.4230	1.5151	-69.9
0.50	0.4324	0.8280	0.9341	62.4	0.4956	-0.9490	1.0706	-62.4
0.55	0.8220	1.0717	1.3507	52.5	0.4506	-0.5875	0.7404	-52.5
0.60	1.5472	1.2555	1.9925	39.1	0.3897	-0.3162	0.5019	-39.1
0.65	2.7585	1.0377	2.9472	20.6	0.3176	-0.1195	0.3393	-20.6
0.70	4.1719	-0.2563	4.1798	-3.5	0.2388	0.0147	0.2392	3.5
0.75	4.6463	-2.8089	5.4294	-31.2	0.1576	0.0953	0.1842	31.2
0.80	3.3988	-5.6643	6.6058	-59.0	0.0779	0.1298	0.1514	59.0
0.85	0.1872	-8.0242	8.0263	-88.7	0.0029	0.1246	0.1246	88.7
0.90	-5.6507	-7.4522	9.3523	52.8	-0.0646	0.0852	0.1069	-52.8
0.95	-8.0068	-1.1150	8.0840	7.9	-0.1225	0.0171	0.1237	-7.9
1.00	-4.9448	2.1815	5.4046	-23.8	-0.1693	0.0747	0.1850	23.8
1.05	-2.6926	2.4409	3.6343	-42.2	-0.2039	-0.1848	0.2752	42.2
1.10	-1.5479	2.1133	2.6195	-53.8	-0.2256	-0.3080	0.3817	53.8
1.15	-0.9464	1.7746	2.0112	-61.9	-0.2340	-0.4387	0.4972	61.9
1.20	-0.6033	1.5085	1.6246	-68.2	-0.2286	-0.5715	0.6155	68.2
1.25	-0.3901	1.3106	1.3675	-73.4	-0.2086	-0.7009	0.7313	73.4
1.30	-0.2450	1.1653	1.1908	-78.1	-0.1728	-0.8218	0.8398	78.1
1.35	-0.1351	1.0578	1.0664	-82.7	-0.1188	-0.9302	0.9377	82.7
1.40	-0.0412	0.9753	0.9762	-87.6	-0.0432	-1.0235	1.0244	87.6
1.45	0.0483	0.9046	0.9059	86.9	0.0589	-1.1023	1.1039	-86.9
1.50	0.1369	0.8298	0.8410	80.6	0.1936	-1.1732	1.1891	-80.6
1.55	0.2143	0.7356	0.7662	73.8	0.3651	-1.2530	1.3052	-73.8
1.60	0.2560	0.6223	0.6729	67.6	0.5653	-1.3744	1.4861	-67.6
1.65	0.2449	0.5170	0.5721	64.7	0.7483	-1.5796	1.7479	-64.7
1.70	0.1941	0.4513	0.4913	66.7	0.8044	-1.8699	2.0356	-66.7
1.75	0.1289	0.4364	0.4551	73.5	0.6226	-2.1074	2.1974	-73.5
1.80	0.0696	0.4761	0.4811	81.7	0.3007	-2.0565	2.0784	-81.7
1.85	0.0507	0.5744	0.5766	85.0	0.1526	-1.7275	1.7342	-85.0
1.90	0.1219	0.6819	0.6927	79.9	0.2540	-1.4210	1.4436	-79.9
1.95	0.2327	0.7207	0.7574	72.1	0.4057	-1.2565	1.3204	-72.1
2.00	0.3145	0.7284	0.7934	66.6	0.4996	-1.1572	1.2604	-66.6
2.05	0.3807	0.7508	0.8418	63.1	0.5372	-1.0594	1.1879	-63.1
2.10	0.4569	0.7970	0.9167	60.2	0.5413	-0.9443	1.0885	-60.2

Set III ($L/2A = 40$) Table K

V	MONOSTATIC AND L/($L/2A$)	S(A)	S(B)	S(C)	S(D)	S(E)	S(F)	S(G)
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.15	0.00007	0.00006	0.00006	0.00005	0.00003	0.00002	0.00000	0.00000
0.20	0.00048	0.00044	0.00044	0.00035	0.00025	0.00015	0.00013	0.00041
0.25	0.00245	0.00227	0.00227	0.00178	0.00115	0.00055	0.00014	0.00209
0.30	0.01115	0.01027	0.01027	0.00797	0.00506	0.00241	0.00062	0.00940
0.35	0.05149	0.04721	0.04721	0.03618	0.02258	0.01057	0.00270	0.04303
0.40	0.26580	0.24248	0.24248	0.18322	0.11215	0.05143	0.01292	0.22017
0.45	0.83031	0.75319	0.75319	0.56030	0.33553	0.15044	0.03717	0.68270
0.50	0.61415	0.55371	0.55371	0.40497	0.23679	0.10357	0.02512	0.50263
0.55	0.40592	0.36360	0.36360	0.26115	0.14864	0.06339	0.01506	0.33225
0.60	0.32120	0.28577	0.28577	0.20141	0.11174	0.04627	0.01076	0.26497
0.65	0.28537	0.25214	0.25214	0.17429	0.09407	0.03783	0.00860	0.24011
0.70	0.27121	0.23798	0.23798	0.16136	0.08472	0.03309	0.00736	0.23710
0.75	0.26823	0.23381	0.23381	0.15562	0.07956	0.03021	0.00657	0.25057
0.80	0.27168	0.23538	0.23538	0.15402	0.07580	0.02845	0.00607	0.28188
0.85	0.27897	0.24046	0.24046	0.15511	0.07585	0.02749	0.00577	0.32991
0.90	0.28841	0.24768	0.24768	0.15817	0.07629	0.02727	0.00567	0.33098
0.95	0.29868	0.25617	0.25617	0.16294	0.07824	0.02767	0.00578	0.16870
1.00	0.30848	0.26498	0.26498	0.16948	0.08212	0.02957	0.00619	0.06022
1.05	0.31639	0.27351	0.27351	0.17821	0.08875	0.03291	0.00704	0.03818
1.10	0.32077	0.28092	0.28092	0.18999	0.09973	0.03892	0.00863	0.03836
1.15	0.31991	0.28634	0.28634	0.20637	0.11809	0.04973	0.01155	0.04181
1.20	0.31328	0.28912	0.28912	0.23003	0.14995	0.06982	0.01710	0.04439
1.25	0.30700	0.29030	0.29030	0.26521	0.20831	0.10944	0.02828	0.04565
1.30	0.33630	0.29909	0.29909	0.31561	0.32020	0.19196	0.05201	0.04723
1.35	0.54257	0.35564	0.35564	0.36425	0.51847	0.35447	0.09961	0.05570
1.40	1.13343	0.52840	0.52840	0.31830	0.69763	0.53697	0.15244	0.08162
1.45	1.67935	0.70162	0.70162	0.16068	0.59712	0.50594	0.14099	0.10701
1.50	1.79189	0.74873	0.74873	0.05856	0.40101	0.36394	0.10557	0.11371
1.55	1.75472	0.74623	0.74623	0.02122	0.27646	0.26148	0.07504	0.11482
1.60	1.71686	0.73971	0.73971	0.00920	0.20942	0.20152	0.05683	0.11868
1.65	1.70254	0.73791	0.73791	0.00540	0.17305	0.16026	0.04588	0.12893
1.70	1.70909	0.74091	0.74091	0.00416	0.15298	0.14484	0.03004	0.14995
1.75	1.73083	0.74756	0.74756	0.00363	0.14220	0.13170	0.03469	0.18456
1.80	1.76293	0.75689	0.75689	0.00327	0.13718	0.12401	0.03202	0.25844
1.85	1.80155	0.76826	0.76826	0.00294	0.13610	0.12041	0.03064	0.34912
1.90	1.84344	0.78136	0.78136	0.00266	0.13803	0.12042	0.03045	0.37696
1.95	1.88564	0.79615	0.79615	0.00254	0.14261	0.12423	0.03154	0.30440
2.00	1.92516	0.81286	0.81286	0.00276	0.14992	0.13275	0.03429	0.22517
2.05	1.95908	0.83196	0.83196	0.00367	0.16049	0.14793	0.03446	0.17631
2.10	1.98522	0.85412	0.85412	0.00610	0.17539	0.17345	0.04651	0.15178

Set III ($L/2A=40$) Table K (contd.)

$L/(\lambda \text{MBA})$	$S(H)$	$S(I)$	$S(J)$	$S(K)$	$S(L)$	$S(M)$	$S(N)$
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.15	0.00005	0.00005	0.00004	0.00002	0.00001	0.00000	0.00002
0.20	0.00035	0.00032	0.00025	0.00016	0.00008	0.00002	0.00011
0.25	0.00178	0.00163	0.00127	0.00061	0.00039	0.00010	0.00052
0.30	0.00797	0.00725	0.00557	0.00350	0.00165	0.00043	0.00219
0.35	0.03618	0.03278	0.02485	0.01536	0.00713	0.00181	0.00946
0.40	0.18322	0.16564	0.12410	0.07540	0.03437	0.00860	0.04566
0.45	0.56030	0.50751	0.37704	0.22553	0.10103	0.02495	0.13485
0.50	0.40497	0.37001	0.27407	0.16207	0.07154	0.01746	0.09631
0.55	0.26115	0.24321	0.18119	0.10668	0.04663	0.01128	0.06364
0.60	0.20141	0.19419	0.14745	0.08735	0.03812	0.00918	0.05307
0.65	0.17429	0.17808	0.14049	0.08501	0.03742	0.00903	0.05354
0.70	0.16136	0.18088	0.15229	0.09595	0.04316	0.01051	0.06391
0.75	0.15562	0.20153	0.18785	0.12507	0.05869	0.01452	0.09048
0.80	0.15402	0.24786	0.26850	0.19654	0.09564	0.02410	0.15404
0.85	0.15511	0.33429	0.44765	0.36469	0.18624	0.04781	0.31363
0.90	0.15817	0.41327	0.73719	0.67628	0.36140	0.09408	0.63558
0.95	0.16294	0.26923	0.69612	0.71898	0.39863	0.10460	0.73124
1.00	0.16948	0.09951	0.40705	0.46792	0.26622	0.06998	0.50960
1.05	0.17821	0.03547	0.24872	0.31249	0.18063	0.04734	0.36200
1.10	0.18999	0.01412	0.17963	0.24223	0.14133	0.03686	0.29858
1.15	0.20637	0.00654	0.15072	0.21543	0.12669	0.03291	0.28512
1.20	0.23003	0.00401	0.14261	0.21581	0.12847	0.03337	0.31235
1.25	0.26521	0.00422	0.14966	0.24142	0.14700	0.03845	0.39267
1.30	0.31561	0.00806	0.16948	0.29883	0.18913	0.05027	0.56554
1.35	0.36425	0.02035	0.19191	0.38484	0.25852	0.07048	0.88125
1.40	0.31830	0.04387	0.16783	0.40519	0.29557	0.08322	1.16686
1.45	0.16068	0.05747	0.08581	0.26840	0.21684	0.06316	1.00338
1.50	0.05856	0.05519	0.03188	0.13980	0.12638	0.03790	0.69172
1.55	0.02122	0.05073	0.01181	0.07625	0.07678	0.02346	0.50186
1.60	0.00920	0.04803	0.00523	0.04740	0.05212	0.01001	0.41257
1.65	0.00540	0.04699	0.00314	0.03377	0.03931	0.01200	0.38483
1.70	0.00416	0.04725	0.00246	0.02735	0.03265	0.00981	0.40369
1.75	0.00363	0.04917	0.00222	0.02537	0.03033	0.00896	0.47170
1.80	0.00327	0.05489	0.00213	0.02821	0.03354	0.00981	0.59711
1.85	0.00294	0.06879	0.00220	0.03854	0.04570	0.01335	0.73601
1.90	0.00266	0.08834	0.00235	0.05351	0.06310	0.01839	0.70976
1.95	0.00254	0.09837	0.00240	0.06123	0.07180	0.02090	0.50200
2.00	0.00276	0.09891	0.00257	0.06256	0.07406	0.02177	0.32380
2.05	0.00367	0.09754	0.00331	0.06377	0.07849	0.02366	0.22535
2.10	0.00610	0.09719	0.00530	0.06751	0.08987	0.02824	0.17763

L/(LAMBDA)	S(I)	S(P)	S(Q)	S(R)	S(S)	S(T)	S(U)
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.15	0.00002	0.00002	0.00001	0.00001	0.00000	0.00000	0.00000
0.20	0.00011	0.00010	0.00008	0.00005	0.00003	0.00001	0.00000
0.25	0.00055	0.00050	0.00039	0.00025	0.00012	0.00003	0.00001
0.30	0.00241	0.00217	0.00165	0.00103	0.00049	0.00012	0.00003
0.35	0.01057	0.00949	0.00713	0.00438	0.00202	0.00051	0.00013
0.40	0.05143	0.04617	0.03437	0.02076	0.00942	0.00235	0.00059
0.45	0.15044	0.13611	0.10103	0.06039	0.02704	0.00668	0.00165
0.50	0.10357	0.09564	0.07154	0.04267	0.01897	0.00465	0.00114
0.55	0.06339	0.06088	0.04653	0.02811	0.01251	0.00306	0.00075
0.60	0.04627	0.04754	0.03812	0.02360	0.01064	0.00262	0.00065
0.65	0.03783	0.04332	0.03742	0.02426	0.01121	0.00278	0.00070
0.70	0.03309	0.04478	0.04316	0.02984	0.01425	0.00359	0.00091
0.75	0.03021	0.05254	0.05869	0.04385	0.02173	0.00555	0.00143
0.80	0.02845	0.07124	0.09564	0.07767	0.03981	0.01028	0.00266
0.85	0.02749	0.11218	0.18624	0.16390	0.08638	0.02245	0.00584
0.90	0.02727	0.17309	0.36140	0.34176	0.18385	0.04790	0.01247
0.95	0.02787	0.15094	0.39863	0.40148	0.21937	0.05715	0.01488
1.00	0.02957	0.07955	0.26622	0.28415	0.15751	0.04104	0.01069
1.05	0.03291	0.04225	0.18063	0.20466	0.11543	0.03015	0.00789
1.10	0.03892	0.02528	0.14133	0.17165	0.09917	0.02607	0.00689
1.15	0.04973	0.01666	0.12669	0.16785	0.10025	0.02065	0.00713
1.20	0.06982	0.01218	0.12847	0.19020	0.11853	0.03197	0.00869
1.25	0.10944	0.01163	0.14700	0.25014	0.16381	0.04490	0.01238
1.30	0.19196	0.01973	0.18913	0.38054	0.26263	0.07307	0.02041
1.35	0.35447	0.05149	0.25852	0.62979	0.45727	0.12876	0.03629
1.40	0.53697	0.11752	0.29557	0.88537	0.67297	0.19113	0.05420
1.45	0.50594	0.15851	0.21684	0.80385	0.63708	0.18173	0.05181
1.50	0.36394	0.15483	0.12638	0.58028	0.47632	0.13679	0.03924
1.55	0.26148	0.14676	0.07678	0.43750	0.37263	0.10770	0.03118
1.60	0.20152	0.14900	0.05212	0.37225	0.33057	0.09648	0.02830
1.65	0.16626	0.16608	0.03931	0.35992	0.33618	0.09948	0.02967
1.70	0.14484	0.20543	0.03265	0.39440	0.39180	0.11804	0.03587
1.75	0.13170	0.28333	0.03033	0.48792	0.52150	0.16027	0.04963
1.80	0.12401	0.42686	0.03354	0.66509	0.77118	0.24183	0.07617
1.85	0.12042	0.63160	0.04570	0.89866	1.13454	0.36226	0.11573
1.90	0.12042	0.73166	0.06310	0.96327	1.32203	0.42846	0.13848
1.95	0.12423	0.61390	0.07180	0.76173	1.13074	0.37086	0.12115
2.00	0.13275	0.45705	0.07406	0.54693	0.87343	0.28948	0.09563
2.05	0.14793	0.35300	0.07849	0.41825	0.71695	0.24028	0.08057
2.10	0.17346	0.29515	0.08987	0.35630	0.5785	0.22358	0.07636

Set III ($L/2A = 40$) Table L

VI	ECHO AREAS/(λ MBDA SQUARED) FOR $L/(\lambda$ MBDA)	S(A)	S(B)	S(C)	LOADED SCATTERER (BROADSIDE INCIDENCE)	S(F)	SIG)	S(H)	S(I)
0.05	0.71631	0.00000	0.00000	0.00000	0.00000	0.00000	0.17908	0.00000	0.00000
0.10	0.72120	0.00001	0.00000	0.00000	0.00000	0.00000	0.18030	0.00001	0.00000
0.15	0.72760	0.00011	0.00008	0.00001	0.00002	0.00001	0.18192	0.00007	0.00006
0.20	0.73653	0.00168	0.00065	0.00006	0.00014	0.00008	0.18425	0.00046	0.00032
0.25	0.74709	0.00660	0.00458	0.00025	0.00061	0.00034	0.18739	0.00226	0.00124
0.30	0.75454	0.00180	0.00085	0.00008	0.00020	0.00015	0.19142	0.00936	0.00375
0.35	0.73448	0.00033	0.00048	0.00024	0.00070	0.00046	0.19649	0.03430	0.00945
0.40	0.54523	0.00008	0.00061	0.00061	0.02145	0.00951	0.20276	0.10208	0.02052
0.45	0.01136	0.00008	0.04732	0.01654	0.06398	0.02485	0.21042	0.19253	0.03909
0.50	0.26474	0.00222	0.02981	0.03992	0.19040	0.06326	0.21973	0.22726	0.06612
0.55	0.51799	0.01055	0.01979	0.09409	0.51799	0.15809	0.23101	0.22401	0.10069
0.60	0.65707	0.03471	0.01158	0.21620	0.93747	0.37617	0.24464	0.21744	0.14042
0.65	0.75857	0.09830	0.00424	0.46593	0.97872	0.75857	0.26116	0.21596	0.18286
0.70	0.85221	0.25495	0.00002	0.85330	0.83154	1.10056	0.28124	0.21970	0.22645
0.75	0.95175	0.59222	0.00785	1.19255	0.71353	1.17043	0.30580	0.22761	0.27067
0.80	1.06620	1.10159	0.05560	1.30209	0.64314	1.08987	0.33611	0.23879	0.31577
0.85	1.20365	1.47930	0.22499	1.25948	0.60529	0.99786	0.37389	0.25260	0.36241
0.90	1.37268	1.54417	0.70768	1.18378	0.58815	0.93220	0.42152	0.26865	0.41144
0.95	1.58272	1.45920	1.58190	1.12205	0.58454	0.89342	0.48216	0.28674	0.46380
1.00	1.84283	1.36086	2.14251	1.08290	0.59014	0.87565	0.55978	0.30698	0.52056
1.05	2.15770	1.28848	2.08597	1.06421	0.60224	0.87374	0.65863	0.33000	0.58297
1.10	2.51718	1.24484	1.86903	1.06220	0.61905	0.88405	0.78140	0.35753	0.65256
1.15	2.87907	1.22502	1.69394	1.07373	0.63945	0.90428	0.92523	0.39364	0.73124
1.20	3.15508	1.22401	1.58048	1.09663	0.66305	0.93322	1.07685	0.44751	0.82134
1.25	3.23979	1.23814	1.51457	1.12963	0.69098	0.97065	1.21488	0.53848	0.92533
1.30	3.09629	1.26502	1.48249	1.17226	0.72820	1.01769	1.32720	0.70098	1.04489
1.35	2.73037	1.30331	1.47479	1.22485	0.79010	1.07738	1.42222	0.96838	1.17876
1.40	2.06807	1.35244	1.48529	1.28946	0.91557	1.15576	1.50778	1.29987	1.31933
1.45	1.53968	1.41212	1.50980	1.36427	1.15832	1.26143	1.57688	1.55575	1.45097
1.50	1.47415	1.48109	1.54506	1.45145	1.45853	1.39677	1.62359	1.66873	1.55550
1.55	1.55381	1.55454	1.58754	1.54249	1.63395	1.53628	1.65206	1.69425	1.62414
1.60	1.62588	1.62198	1.63222	1.62099	1.68358	1.63390	1.67099	1.69405	1.66315
1.65	1.67309	1.67226	1.67267	1.67367	1.69524	1.68140	1.68778	1.69611	1.68666
1.70	1.70481	1.70505	1.70464	1.70541	1.70827	1.70666	1.70695	1.70825	1.70697
1.75	1.73050	1.73054	1.73049	1.73058	1.73077	1.73067	1.73067	1.73077	1.73068
1.80	1.75624	1.75762	1.75647	1.75820	1.76175	1.75987	1.75959	1.76172	1.75985
1.85	1.78565	1.78891	1.78627	1.79016	1.79834	1.79392	1.79358	1.79863	1.79394
1.90	1.82112	1.82318	1.81953	1.82490	1.83752	1.83047	1.83223	1.83899	1.83117
1.95	1.86496	1.85785	1.85383	1.85978	1.87631	1.86668	1.87519	1.88036	1.86929
2.00	1.92061	1.89006	1.88626	1.89197	1.91166	1.89963	1.92265	1.92036	1.90539
2.05	1.99415	1.91698	1.91397	1.91863	1.94039	1.92631	1.97606	1.95701	1.93874
2.10	2.09636	1.93594	1.93433	1.93705	1.95947	1.94375	2.03938	1.98964	1.96021

VIII L/(LAMBDA)	PRIMED ADMITTANCE CENTER LOADED SCATTERER		PARAMETERS (MILLIMHUS) FOR NORMAL INCIDENCE	
	RE DY11	IM DY11	RE Y12	IM Y12
0.05	0.00000	0.00010	0.00000	0.00582
0.10	0.00000	0.00086	0.00007	0.02426
0.15	0.00003	0.00312	0.00057	0.05859
0.20	0.00021	0.00818	0.00295	0.11586
0.25	0.00106	0.01851	0.01204	0.21058
0.30	0.00475	0.03924	0.04538	0.37423
0.35	0.02165	0.08215	0.17864	0.67632
0.40	0.11015	0.15852	0.80186	1.15120
0.45	0.33871	0.04098	2.21168	0.26314
0.50	0.24634	-0.15942	1.46218	-0.95312
0.55	0.15998	-0.17696	0.87257	-0.97544
0.60	0.12433	-0.17196	0.62881	-0.88457
0.65	0.10849	-0.16804	0.51267	-0.81506
0.70	0.10132	-0.16660	0.45025	-0.76951
0.75	0.09856	-0.16700	0.41424	-0.74166
0.80	0.09836	-0.16856	0.39281	-0.72690
0.85	0.09977	-0.17075	0.38007	-0.72260
0.90	0.10228	-0.17312	0.37272	-0.72748
0.95	0.10558	-0.17529	0.36864	-0.74135
1.00	0.10953	-0.17678	0.36612	-0.76503
1.05	0.11408	-0.17703	0.36331	-0.80050
1.10	0.11940	-0.17525	0.35744	-0.85138
1.15	0.12602	-0.17020	0.34328	-0.92367
1.20	0.13541	-0.15995	0.30933	-1.02688
1.25	0.15154	-0.14168	0.22781	-1.17342
1.30	0.18536	-0.11345	0.02953	-1.36284
1.35	0.26098	-0.08919	-0.41818	-1.48367
1.40	0.37487	-0.13554	-1.02247	-1.13169
1.45	0.41178	-0.25665	-1.07422	-0.40479
1.50	0.37521	-0.33230	-0.72398	-0.03380
1.55	0.33998	-0.36112	-0.43072	0.05371
1.60	0.31925	-0.37251	-0.24349	0.05218
1.65	0.30890	-0.37850	-0.12408	0.03147
1.70	0.30495	-0.38289	-0.04421	0.01142
1.75	0.30503	-0.38679	0.01209	-0.00262
1.80	0.30774	-0.39044	0.05376	-0.00926
1.85	0.31226	-0.39377	0.08619	-0.00797
1.90	0.31811	-0.39654	0.11290	0.00184
1.95	0.32502	-0.39839	0.13668	0.02130
2.00	0.33290	-0.39883	0.16028	0.05254
2.05	0.34194	-0.39715	0.18741	0.09801
2.10	0.35272	-0.39230	0.22430	0.16283

Set IV ($L/2A = 100$) Table A

I INPUT ADMITTANCES (MILLIMHOS) AND IMPEDANCES (KILJ-UHMS)							
A) SOURCE AT CENTER	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
L/($LAMBDA$)	G						
0.05	0.0001	0.3898	90.0	0.0004	-2.5654	2.5654	-90.0
0.10	0.0011	0.8005	89.9	0.0016	-1.2492	1.2492	-89.9
0.15	0.0061	1.2582	89.7	0.0038	-0.7947	0.7948	-89.7
0.20	0.0234	1.8027	89.3	0.0072	-0.5546	0.5547	-89.3
0.25	0.0753	2.5038	88.3	0.0120	-0.3990	0.3992	-88.3
0.30	0.2316	3.5037	86.2	0.0188	-0.2842	0.2848	-86.2
0.35	0.7609	5.1272	81.6	0.0283	-0.1908	0.1929	-81.6
0.40	3.0799	8.5768	69.0	0.0419	-0.1088	0.1166	-69.0
0.45	12.8324	14.4510	27.4	0.0614	-0.0318	0.0692	-27.4
0.50	8.8977	9.9166	-26.2	0.0905	0.0445	0.1008	26.2
0.55	4.0419	5.4736	-42.4	0.1349	0.1232	0.1827	42.4
0.60	2.4431	3.4497	-44.9	0.2053	0.2047	0.2899	44.9
0.65	1.7604	2.3460	-41.4	0.3199	0.2818	0.4263	41.4
0.70	1.4046	1.6698	-32.7	0.5037	0.3239	0.5989	32.7
0.75	1.1941	1.2567	-18.2	0.7561	0.2480	0.7958	18.2
0.80	1.0592	1.0600	2.2	0.9428	-0.0357	0.9434	-2.2
0.85	0.9686	1.0582	23.7	0.8650	-0.3805	0.9450	-23.7
0.90	0.9069	1.2017	41.0	0.6280	-0.5460	0.8322	-41.0
0.95	0.8664	1.4349	52.9	0.4208	-0.5555	0.6969	-52.9
1.00	0.8441	1.7277	60.8	0.2828	-0.5050	0.5788	-60.8
1.05	0.8411	2.0737	66.1	0.1956	-0.4408	0.4822	-66.1
1.10	0.8336	2.4830	69.6	0.1401	-0.3776	0.4027	-69.6
1.15	0.9270	2.9812	71.9	0.1043	-0.3188	0.3354	-71.9
1.20	1.0665	3.6165	72.8	0.0815	-0.2642	0.2765	-72.8
1.25	1.3684	4.4776	72.2	0.0683	-0.2126	0.2233	-72.2
1.30	2.0627	5.7306	68.9	0.0628	-0.1628	0.1745	-68.9
1.35	3.8000	7.6452	60.2	0.0650	-0.1135	0.1308	-60.2
1.40	7.7134	10.0787	40.1	0.0759	-0.0639	0.0992	-40.1
1.45	9.9962	10.0941	8.0	0.0981	-0.0138	0.0991	-8.0
1.50	6.8997	7.1275	-14.5	0.1358	0.0352	0.1403	14.5
1.55	4.4314	4.7682	-21.7	0.1949	0.0774	0.2097	21.7
1.60	3.1706	3.3652	-19.6	0.2800	0.0996	0.2972	19.6
1.65	2.4969	2.5485	-11.6	0.3844	0.0786	0.3924	11.6
1.70	2.1027	2.1028	0.6	0.4755	-0.0049	0.4756	-0.6
1.75	1.8544	1.9164	14.6	0.5050	-0.1316	0.5218	-14.6
1.80	1.6902	1.9138	28.0	0.4614	-0.2451	0.5225	-28.0
1.85	1.5791	2.0357	39.1	0.3811	-0.3100	0.4912	-39.1
1.90	1.5056	2.2412	47.8	0.2997	-0.3305	0.4462	-47.8
1.95	1.4622	2.5092	54.4	0.2322	-0.3239	0.3985	-54.4
2.00	1.4480	2.8542	59.3	0.1803	-0.3033	0.3528	-59.3
2.05	1.4682	3.2256	62.9	0.1413	-0.2762	0.3102	-62.9
2.10	1.5375	3.6973	65.4	0.1125	-0.2460	0.2705	-65.4

Set IV ($L/2A = 100$) Table B

B)	SOURCE	L/8 OFF CENTER	MAG Y	ANG Y	R	X	MAG Z	ANG Z
	L/(λ BDA)	G	B					
0.05	0.0001	0.3725	0.3725	90.0	0.0004	-2.6845	2.6845	-90.0
0.10	0.0009	0.7637	0.7637	89.9	0.0016	-1.3094	1.3094	-89.9
0.15	0.0054	1.1970	1.1970	89.7	0.0038	-0.8354	0.8354	-89.7
0.20	0.0208	1.7074	1.7075	89.3	0.0071	-0.5856	0.5856	-89.3
0.25	0.0670	2.3568	2.3577	88.4	0.0120	-0.4240	0.4241	-88.4
0.30	0.2053	3.2695	3.2760	86.4	0.0191	-0.3047	0.3053	-86.4
0.35	0.6719	4.7297	4.7772	81.9	0.0294	-0.2072	0.2093	-81.9
0.40	2.7066	7.2836	7.7703	69.6	0.0448	-0.1206	0.1287	-69.6
0.45	11.2174	6.1153	12.7760	28.6	0.0687	-0.0375	0.0783	-28.6
0.50	7.7365	-3.4296	8.4626	-23.9	0.1080	0.0479	0.1182	23.9
0.55	3.4990	-2.7278	4.4360	-37.9	0.1778	0.1386	0.2254	37.9
0.60	2.1122	-1.5212	2.6029	-35.8	0.3117	0.2245	0.3842	35.8
0.65	1.5320	-0.6095	1.6488	-21.7	0.5635	0.2242	0.6065	21.7
0.70	1.2542	0.1450	1.2625	6.6	0.7368	-0.0909	0.7921	-6.6
0.75	1.1449	0.8650	1.4349	37.1	0.5560	-0.4201	0.6969	-37.1
0.80	1.2143	1.6632	2.0593	53.9	0.2863	-0.3922	0.4856	-53.9
0.85	1.6745	2.6597	3.1429	57.8	0.1695	-0.2693	0.3182	-57.8
0.90	3.3314	3.5908	4.8982	47.1	0.1389	-0.1497	0.2042	-47.1
0.95	5.8023	1.5771	6.0128	15.2	0.1605	-0.0436	0.1663	-15.2
1.00	4.1797	-0.7950	4.2546	-10.8	0.2309	0.0439	0.2350	10.8
1.05	2.6481	-0.6527	2.7274	-13.8	0.3560	0.0877	0.3667	13.8
1.10	1.9520	-0.1234	1.9559	-3.6	0.5103	0.0323	0.5113	3.6
1.15	1.6149	0.3818	1.6594	13.3	0.5865	-0.1387	0.6026	-13.3
1.20	1.4465	0.8473	1.6764	30.4	0.5147	-0.3015	0.5965	-30.4
1.25	1.3873	1.3011	1.9019	43.2	0.3835	-0.3597	0.5258	-43.2
1.30	1.4469	1.7708	2.2868	50.7	0.2767	-0.3386	0.4373	-50.7
1.35	1.7235	2.2426	2.8284	52.5	0.2155	-0.2803	0.3536	-52.5
1.40	2.3737	2.4111	3.3835	45.4	0.2073	-0.2106	0.2956	-45.4
1.45	2.6402	1.7512	3.1682	33.6	0.2630	-0.1745	0.3156	-33.6
1.50	2.0123	1.5705	2.5526	38.0	0.3088	-0.2410	0.3918	-38.0
1.55	1.5898	1.9830	2.5416	51.3	0.2461	-0.3070	0.3934	-51.3
1.60	1.4276	2.5321	2.9068	60.6	0.1690	-0.2997	0.3440	-60.6
1.65	1.4251	3.1506	3.4530	65.7	0.1192	-0.2635	0.2892	-65.7
1.70	1.5781	3.8763	4.1852	67.8	0.0901	-0.2213	0.2389	-67.8
1.75	1.9855	4.7729	5.1694	67.4	0.0743	-0.1796	0.1934	-67.4
1.80	2.9444	5.8704	6.5674	63.4	0.0683	-0.1361	0.1523	-63.4
1.85	5.1541	6.7789	8.5158	52.8	0.0711	-0.0935	0.1174	-52.8
1.90	8.7519	5.2953	10.2291	31.2	0.0836	-0.0506	0.0978	-31.2
1.95	9.1568	0.7134	9.1846	4.5	0.1085	-0.0085	0.1089	-4.5
2.00	6.4283	-1.2614	6.5509	-11.1	0.1498	0.0294	0.1527	11.1
2.05	4.4439	-1.1383	4.5874	-14.4	0.2112	0.0541	0.2180	14.4
2.10	3.3509	-0.5666	3.3984	-9.0	0.2901	0.0491	0.2943	9.6

Set IV ($L/2A = 100$) Table C

G)	SOURCE $L/4$ OFF CENTER	β	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0000	0.3191	0.3191	90.0	0.0004	-3.1338	3.1338	-90.0
0.10	0.0006	0.6510	0.6510	89.9	0.0015	-1.5361	1.5361	-89.9
0.15	0.0037	1.0115	1.0115	89.8	0.0036	-0.9887	0.9887	-89.8
0.20	0.0141	1.4238	1.4239	89.4	0.0070	-0.7023	0.7023	-89.4
0.25	0.0450	1.9284	1.9289	88.7	0.0121	-0.5183	0.5184	-88.7
0.30	0.1364	2.6053	2.6088	87.0	0.0200	-0.3828	0.3833	-87.0
0.35	0.4408	3.6345	3.6611	83.1	0.0329	-0.2712	0.2731	-83.1
0.40	1.7500	5.3547	5.6334	71.9	0.0551	-0.1687	0.1775	-71.9
0.45	7.1370	4.6704	8.5294	33.2	0.0981	-0.0642	0.1172	-33.2
0.50	4.8429	-1.2059	4.9908	-14.0	0.1944	0.0484	0.2004	14.0
0.55	2.1612	-0.5468	2.2293	-14.2	0.4349	0.1100	0.4486	14.2
0.60	1.2998	0.4453	1.3739	18.9	0.6885	-0.2359	0.7278	-18.9
0.65	0.9616	1.2986	1.6158	53.5	0.3683	-0.4974	0.6189	-53.5
0.70	0.8439	2.1347	2.2954	68.4	0.1602	-0.4051	0.4356	-68.4
0.75	0.9028	3.0860	3.2153	73.7	0.0873	-0.2985	0.3110	-73.7
0.80	1.2589	4.3197	4.4995	73.8	0.0622	-0.2134	0.2222	-73.8
0.85	2.4239	6.0414	6.5095	68.1	0.0572	-0.1426	0.1536	-68.1
0.90	6.1619	7.5994	9.7837	51.0	0.0644	-0.0794	0.1022	-51.0
0.95	11.4713	2.7133	11.7879	13.3	0.0826	-0.0195	0.0848	-13.3
1.00	7.8022	-2.6789	8.2493	-19.0	0.1147	0.0394	0.1212	19.0
1.05	4.4710	-2.5698	5.1569	-29.9	0.1681	0.0966	0.1939	29.9
1.10	2.9730	-1.6554	3.4028	-29.1	0.2568	0.1430	0.2939	29.1
1.15	2.2422	-0.8063	2.3828	-19.8	0.3949	0.1420	0.4197	19.8
1.20	1.8596	-0.0445	1.8602	-1.4	0.5374	0.0129	0.5376	1.4
1.25	1.6929	0.7028	1.8330	22.5	0.5039	-0.2092	0.5456	-22.5
1.30	1.7645	1.5217	2.3300	40.8	0.3250	-0.2803	0.4292	-40.8
1.35	2.3262	2.4445	3.3744	46.4	0.2043	-0.2147	0.2963	-46.4
1.40	3.9543	2.8473	4.8727	35.8	0.1665	-0.1199	0.2052	-35.8
1.45	5.2097	0.9811	5.3012	10.7	0.1854	-0.0349	0.1886	-10.7
1.50	4.0298	-0.4227	4.0519	-6.0	0.2454	0.0257	0.2468	6.0
1.55	2.9309	-0.4065	2.9590	-7.9	0.3348	0.0464	0.3380	7.9
1.60	2.3268	-0.0621	2.3276	-1.5	0.4295	0.0115	0.4296	1.5
1.65	1.9864	0.3053	2.0097	8.7	0.4918	-0.0756	0.4976	-8.7
1.70	1.7806	0.6477	1.8948	20.0	0.4960	-0.1804	0.5278	-20.0
1.75	1.6512	0.9639	1.9119	30.3	0.4517	-0.2637	0.5230	-30.3
1.80	1.5709	1.2579	2.0125	38.7	0.3879	-0.3106	0.4969	-38.7
1.85	1.5229	1.5274	2.1569	45.1	0.3273	-0.3283	0.4636	-45.1
1.90	1.4717	1.7708	2.3025	50.3	0.2776	-0.3340	0.4343	-50.3
1.95	1.3888	2.0527	2.4784	55.9	0.2261	-0.3342	0.4035	-55.9
2.00	1.3493	2.4017	2.7547	60.7	0.1778	-0.3165	0.3630	-60.7
2.05	1.3650	2.7759	3.0934	63.8	0.1427	-0.2901	0.3233	-63.8
2.10	1.4262	3.1814	3.4864	65.9	0.1173	-0.2617	0.2868	-65.9

D)	SOURCE 3L/8 OFF CENTER	MAG Y	ANG Y	R	X	MAG Z	ANG Z
L/(LAMBDA)	G	B					
0.05	0.0000	0.2227	90.0	0.0003	-4.4905	4.4905	-90.0
0.10	0.0003	0.4506	90.0	0.0013	-2.2193	2.2193	-90.0
0.15	0.0015	0.6900	89.9	0.0031	-1.4493	1.4493	-89.9
0.20	0.0056	0.9499	89.7	0.0062	-1.0527	1.0527	-89.7
0.25	0.0177	1.2454	89.2	0.0114	-0.8028	0.8028	-89.2
0.30	0.0528	1.6059	88.1	0.0205	-0.6220	0.6224	-88.1
0.35	0.1671	2.0955	85.4	0.0378	-0.4742	0.4757	-85.4
0.40	0.6468	2.8301	77.1	0.0767	-0.3358	0.3445	-77.1
0.45	2.5657	2.6777	46.2	0.1866	-0.1947	0.2697	-46.2
0.50	1.6927	0.7433	23.7	0.4953	-0.2175	0.5409	-23.7
0.55	0.7384	1.1646	57.6	0.3883	-0.6124	0.7252	-57.6
0.60	0.4417	1.7083	75.5	0.1419	-0.5487	0.5668	-75.5
0.65	0.3376	2.2237	81.4	0.0667	-0.4396	0.4446	-81.4
0.70	0.3260	2.7689	83.3	0.0419	-0.3562	0.3587	-83.3
0.75	0.4086	3.4115	83.2	0.0346	-0.2890	0.2910	-83.2
0.80	0.6748	4.2442	81.0	0.0365	-0.2298	0.2327	-81.0
0.85	1.4526	5.3756	74.9	0.0468	-0.1734	0.1796	-74.9
0.90	3.8168	6.3473	59.6	0.0696	-0.1157	0.1350	-59.0
0.95	6.9529	3.3042	25.4	0.1173	-0.0558	0.1299	-25.4
1.00	4.5166	0.2583	3.3	0.2207	-0.0126	0.2210	-3.3
1.05	2.4689	0.6457	14.7	0.3791	-0.0991	0.3919	-14.7
1.10	1.5957	1.5245	43.7	0.3277	-0.3130	0.4532	-43.7
1.15	1.2229	2.4077	63.1	0.1677	-0.3302	0.3703	-63.1
1.20	1.1186	3.3270	71.4	0.0908	-0.2700	0.2849	-71.4
1.25	1.2693	4.3813	73.8	0.0610	-0.2106	0.2192	-73.8
1.30	1.8657	5.6867	71.8	0.0521	-0.1588	0.1671	-71.8
1.35	3.5486	7.1925	63.7	0.0552	-0.1118	0.1247	-63.7
1.40	7.4682	7.2557	44.2	0.0689	-0.0669	0.0960	-44.2
1.45	9.7783	2.3096	13.3	0.0969	-0.0229	0.0995	-13.3
1.50	6.6329	-0.7214	-6.2	0.1490	0.0162	0.1499	6.2
1.55	4.1245	-0.4428	-6.1	0.2397	0.0257	0.2411	-6.1
1.60	2.8676	0.5199	10.3	0.3376	-0.0612	0.3431	-10.3
1.65	2.2600	1.5666	34.7	0.2989	-0.2072	0.3637	-34.7
1.70	2.0433	2.6736	52.6	0.1805	-0.2361	0.2972	-52.6
1.75	2.2109	3.9262	60.6	0.1089	-0.1934	0.2219	-60.6
1.80	3.0322	5.3932	60.7	0.0792	-0.1409	0.1616	-60.7
1.85	5.2657	6.7111	51.9	0.0724	-0.0922	0.1172	-51.9
1.90	9.1891	5.5079	30.9	0.0801	-0.0480	0.0933	-30.9
1.95	9.8648	0.7318	4.2	0.1008	-0.0075	0.1011	-4.2
2.00	6.9865	-1.4047	-11.4	0.1376	0.0277	0.1403	11.4
2.05	4.8006	-1.1911	-13.9	0.1962	0.0487	0.2022	13.9
2.10	3.5816	-0.3917	-6.2	0.2759	0.0302	0.2775	6.2

Set IV ($L/2A = 100$) Table E

L/(LAMBDA)	SOURCE L/4 OFF CENTER, Y=0 AT CENTER	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0000	0.2428	0.2428	90.0	0.0001	-4.1193	4.1193	-90.0
0.10	0.0001	0.4689	0.4689	90.0	0.0005	-2.0453	2.0453	-90.0
0.15	0.0006	0.7421	0.7421	90.0	0.0011	-1.3474	1.3474	-90.0
0.20	0.0021	1.0065	1.0065	89.9	0.0020	-0.9935	0.9935	-89.9
0.25	0.0054	1.2870	1.2870	89.8	0.0033	-0.7770	0.7770	-89.8
0.30	0.0123	1.5896	1.5896	89.6	0.0049	-0.6291	0.6291	-89.6
0.35	0.0255	1.9223	1.9223	89.2	0.0069	-0.5202	0.5202	-89.2
0.40	0.0498	2.2958	2.2958	88.8	0.0094	-0.4355	0.4355	-88.8
0.45	0.0935	2.7232	2.7232	88.0	0.0126	-0.3668	0.3670	-88.0
0.50	0.1721	3.2255	3.2301	86.9	0.0165	-0.3092	0.3096	-86.9
0.55	0.3149	3.8285	3.8414	85.3	0.0213	-0.2594	0.2603	-85.3
0.60	0.5792	4.5637	4.6003	82.8	0.0274	-0.2156	0.2174	-82.8
0.65	1.0784	5.4520	5.5576	78.8	0.0349	-0.1765	0.1799	-78.8
0.70	2.0160	6.4330	6.7415	72.6	0.0444	-0.1415	0.1483	-72.6
0.75	3.5047	7.1778	8.0321	63.3	0.0559	-0.1113	0.1245	-63.3
0.80	5.5304	7.1287	9.0224	52.2	0.0679	-0.0876	0.1108	-52.2
0.85	7.0840	6.7960	9.8167	43.8	0.0735	-0.0705	0.1019	-43.8
0.90	10.0832	6.8740	12.2033	34.3	0.0677	-0.0462	0.0819	-34.3
0.95	14.4858	1.3213	14.5460	5.2	0.0685	-0.0062	0.0687	-5.2
1.00	10.1187	-4.3165	11.0009	-23.1	0.0836	0.0357	0.0909	23.1
1.05	6.2993	-4.3018	7.6280	-34.3	0.1083	0.0739	0.1311	34.3
1.10	4.4574	-3.4492	5.6361	-37.7	0.1403	0.1086	0.1774	37.7
1.15	3.4706	-2.6845	4.3877	-37.7	0.1803	0.1394	0.2279	37.7
1.20	2.8734	-2.0654	3.5387	-35.7	0.2295	0.1649	0.2826	35.7
1.25	2.4794	-1.5587	2.9286	-32.2	0.2891	0.1817	0.3415	32.2
1.30	2.2036	-1.1329	2.4777	-27.2	0.3589	0.1845	0.4036	27.2
1.35	2.0026	-0.7652	2.1439	-20.9	0.4357	0.1665	0.4665	20.9
1.40	1.8526	-0.4404	1.9042	-13.4	0.5109	0.1214	0.5252	13.4
1.45	1.7393	-0.1477	1.7455	-4.9	0.5708	0.0485	0.5729	4.9
1.50	1.6541	0.1196	1.6585	4.1	0.6014	-0.0435	0.6030	-4.1
1.55	1.5914	0.3655	1.6328	12.9	0.5969	-0.1371	0.6124	-12.9
1.60	1.5460	0.5911	1.6551	20.9	0.5643	-0.2158	0.6042	-20.9
1.65	1.5106	0.7964	1.7077	27.8	0.5180	-0.2731	0.5856	-27.8
1.70	1.4748	0.9853	1.7737	33.7	0.4688	-0.3132	0.5638	-33.7
1.75	1.4320	1.1699	1.8491	39.2	0.4168	-0.3422	0.5408	-39.2
1.80	1.3888	1.3614	1.9448	44.4	0.3672	-0.3599	0.5142	-44.4
1.85	1.3544	1.5528	2.0605	48.9	0.3190	-0.3657	0.4853	-48.9
1.90	1.3067	1.7308	2.1686	52.9	0.2778	-0.3680	0.4611	-52.9
1.95	1.2205	1.9491	2.2597	57.9	0.2308	-0.3685	0.4348	-57.9
2.00	1.1591	2.2276	2.5157	62.3	0.1847	-0.3520	0.3975	-62.3
2.05	1.1596	2.5161	2.7704	65.3	0.1511	-0.3278	0.3610	-65.3
2.10	1.1719	2.8102	3.0448	67.4	0.1264	-0.3031	0.3284	-67.4

Set IV ($L/2A = 100$) Table F

F) SOURCE L/4 OFF CENTER, L/(λBDA)	G	B	MAG Y	ANG Y	Y = (-J/600)COT(KL/4)	R	MHUS AT CENTER X	MAG Z	ANG Z
0.05	0.0000	0.3205	0.3205	90.0	0.0004	0.0004	-3.1198	3.1198	-90.0
0.10	0.0007	0.6643	0.6643	89.9	0.0016	0.0016	-1.5052	1.5052	-89.9
0.15	0.0047	1.0711	1.0711	89.7	0.0041	0.0041	-0.9336	0.9336	-89.7
0.20	0.0251	1.6498	1.6500	89.1	0.0092	0.0092	-0.6060	0.6061	-89.1
0.25	0.1938	2.9758	2.9821	86.3	0.0218	0.0218	-0.3346	0.3353	-86.3
0.30	6.2763	-6.4569	9.0047	-45.8	0.0774	0.0774	0.0796	0.1111	45.8
0.35	0.1548	0.0285	0.1574	10.4	0.2465	0.2465	-1.1515	6.3517	-10.4
0.40	0.0341	1.0579	1.0585	88.2	0.0305	0.0305	-0.9443	0.9448	-88.2
0.45	0.0091	1.6830	1.6830	89.7	0.0032	0.0032	-0.5942	0.5942	-89.7
0.50	0.0109	2.2410	2.2411	89.7	0.0022	0.0022	-0.4462	0.4462	-89.7
0.55	0.0388	2.8289	2.8292	89.2	0.0049	0.0049	-0.3534	0.3535	-89.2
0.60	0.1119	3.5091	3.5109	88.2	0.0091	0.0091	-0.2847	0.2848	-88.2
0.65	0.2781	4.3505	4.3594	86.3	0.0146	0.0146	-0.2289	0.2294	-86.3
0.70	0.6536	5.4420	5.4811	83.2	0.0218	0.0218	-0.1811	0.1824	-83.2
0.75	1.5284	6.8584	7.0266	77.4	0.0310	0.0310	-0.1389	0.1423	-77.4
0.80	3.5126	8.3574	9.0656	67.2	0.0427	0.0427	-0.1017	0.1103	-67.2
0.85	6.8241	8.7280	11.0791	52.0	0.0550	0.0550	-0.0711	0.0903	-52.0
0.90	10.7360	7.6378	13.1757	35.4	0.0618	0.0618	-0.0440	0.0759	-35.4
0.95	14.8003	1.4106	14.8674	5.4	0.0670	0.0670	-0.0064	0.0673	-5.4
1.00	10.1187	-4.3165	11.0009	-23.1	0.0836	0.0836	0.0357	0.0909	23.1
1.05	6.1587	-4.2480	7.4817	-34.6	0.1100	0.1100	0.0759	0.1337	34.6
1.10	4.2666	-3.3501	5.4123	-38.0	0.1456	0.1456	0.1137	0.1848	38.0
1.15	3.2686	-2.5100	4.1211	-37.5	0.1925	0.1925	0.1478	0.2427	37.5
1.20	2.6770	-1.8440	3.2506	-34.6	0.2533	0.2533	0.1745	0.3076	34.6
1.25	2.2967	-1.2940	2.6561	-29.4	0.3305	0.3305	0.1862	0.3793	29.4
1.30	2.0403	-0.8234	2.2002	-22.0	0.4215	0.4215	0.1701	0.4545	22.0
1.35	1.8667	-0.4045	1.9100	-12.2	0.5117	0.5117	0.1109	0.5236	12.2
1.40	1.7590	-0.0170	1.7591	-0.6	0.5685	0.5685	0.0055	0.5685	0.6
1.45	1.7198	0.3520	1.7555	11.6	0.5581	0.5581	-0.1142	0.5697	-11.6
1.50	1.7751	0.6956	1.9005	21.4	0.4884	0.4884	-0.1914	0.5245	-21.4
1.55	1.9561	0.9396	2.1701	25.7	0.4154	0.4154	-0.1995	0.4608	-25.7
1.60	2.1453	0.9356	2.3404	23.6	0.3917	0.3917	-0.1708	0.4273	-23.6
1.65	2.0678	0.8216	2.2251	21.7	0.4177	0.4177	-0.1659	0.4494	-21.7
1.70	1.8427	0.8849	2.0442	25.7	0.4410	0.4410	-0.2118	0.4892	-25.7
1.75	1.6640	1.0815	1.9840	33.0	0.4225	0.4225	-0.2746	0.5039	-33.0
1.80	1.5554	1.3200	2.0400	40.3	0.3737	0.3737	-0.3172	0.4902	-40.3
1.85	1.4955	1.5585	2.1599	46.2	0.3206	0.3206	-0.3341	0.4630	-46.2
1.90	1.4429	1.7821	2.2930	51.0	0.2744	0.2744	-0.3389	0.4361	-51.0
1.95	1.3675	2.0529	2.4667	56.3	0.2246	0.2246	-0.3374	0.4054	-56.3
2.00	1.1691	2.2276	2.5157	62.3	0.1847	0.1847	-0.3520	0.3975	-62.3
2.05	1.4197	2.7958	3.1356	63.1	0.1444	0.1444	-0.2844	0.3189	-63.1
2.10	1.6411	3.2549	3.6452	63.2	0.1235	0.1235	-0.2450	0.2743	-63.2

Set IV ($L/2A = 100$) Table G

G)	SOURCE $L/4$ OFF CENTER, $L/(\lambda \text{MBDA})$	G	U	MAG Y	Y = (-J/300) CUT(KL/4)	MHOS AT CENTER K	ANG Y	X	MAG Z	ANG Z
0.05	0.0000	0.3198	0.3198	90.0	0.0004	0.0004	90.0	-3.1268	3.1268	-90.0
0.10	0.0007	0.0574	0.0574	89.9	0.0016	0.0016	89.9	-1.5211	1.5211	-89.9
0.15	0.0042	1.0383	1.0383	89.8	0.0039	0.0039	89.8	-0.9631	0.9631	-89.8
0.20	0.0181	1.5127	1.5128	89.3	0.0079	0.0079	89.3	-0.6610	0.6610	-89.3
0.25	0.0755	2.2172	2.2185	88.1	0.0153	0.0153	88.1	-0.4505	0.4508	-88.1
0.30	0.4437	3.7436	3.7698	85.2	0.0312	0.0312	85.2	-0.2634	0.2653	-85.2
0.35	11.5437	3.6812	12.1164	17.7	0.0786	0.0786	17.7	-0.0251	0.0825	-17.7
0.40	0.8332	-1.1066	1.3852	-53.0	0.4342	0.4342	-53.0	0.5767	0.7219	53.0
0.45	0.2220	0.5535	0.5964	68.1	0.6243	0.6243	68.1	-1.5562	1.6768	-68.1
0.50	0.0901	1.4046	1.4075	86.3	0.0455	0.0455	86.3	-0.7090	0.7105	-86.3
0.55	0.0444	2.0905	2.0909	88.8	0.0102	0.0102	88.8	-0.4781	0.4783	-88.8
0.60	0.0417	2.7807	2.7810	89.1	0.0054	0.0054	89.1	-0.3595	0.3596	-89.1
0.65	0.0920	3.5742	3.5754	88.5	0.0072	0.0072	88.5	-0.2796	0.2797	-88.5
0.70	0.2504	4.5801	4.5869	86.9	0.0119	0.0119	86.9	-0.2177	0.2180	-86.9
0.75	0.6799	5.9506	5.9993	83.5	0.0189	0.0189	83.5	-0.1650	0.1667	-83.5
0.80	1.8884	7.9104	8.1327	76.6	0.0280	0.0280	76.6	-0.1196	0.1230	-76.6
0.85	5.2474	9.9366	11.2371	62.2	0.0416	0.0416	62.2	-0.0787	0.0890	-62.2
0.90	11.0789	8.8707	14.1927	38.7	0.0550	0.0550	38.7	-0.0440	0.0705	-38.7
0.95	15.1492	1.5597	15.2293	5.9	0.0653	0.0653	5.9	-0.0067	0.0657	-5.9
1.00	10.1187	-4.3165	11.0009	-23.1	0.0836	0.0836	-23.1	0.0357	0.0909	23.1
1.05	6.0351	-4.1942	7.3494	-34.8	0.1117	0.1117	-34.8	0.0777	0.1361	34.8
1.10	4.1141	-3.2214	5.2253	-38.1	0.1507	0.1507	-38.1	0.1180	0.1914	38.1
1.15	3.1175	-2.3609	3.9106	-57.1	0.2039	0.2039	-57.1	0.1544	0.2557	57.1
1.20	2.5368	-1.6623	3.0329	-33.2	0.2758	0.2758	-33.2	0.1807	0.3297	33.2
1.25	2.1710	-1.0803	2.4249	-26.5	0.3692	0.3692	-26.5	0.1837	0.4124	26.5
1.30	1.9335	-0.5720	2.0163	-16.5	0.4750	0.4750	-16.5	0.1407	0.4960	16.5
1.35	1.7889	-0.1032	1.7918	-3.3	0.5572	0.5572	-3.3	0.0321	0.5581	3.3
1.40	1.7369	0.3532	1.7724	11.5	0.5529	0.5529	11.5	-0.1124	0.5642	-11.5
1.45	1.8229	0.8051	1.9928	23.8	0.4590	0.4590	23.8	-0.2028	0.5018	-23.8
1.50	2.1485	1.1566	2.4400	28.3	0.3609	0.3609	28.3	-0.1943	0.4098	-28.3
1.55	2.6048	1.0552	2.8104	22.1	0.3298	0.3298	22.1	-0.1336	0.3558	-22.1
1.60	2.5401	0.6360	2.6186	14.1	0.3705	0.3705	14.1	-0.0927	0.3819	-14.1
1.65	2.1469	0.5768	2.2230	15.0	0.4344	0.4344	15.0	-0.1167	0.4498	-15.0
1.70	1.8490	0.7687	2.0024	22.6	0.4611	0.4611	22.6	-0.1917	0.4994	-22.6
1.75	1.6698	1.0273	1.9604	31.6	0.4345	0.4345	31.6	-0.2673	0.5101	-31.6
1.80	1.5666	1.2931	2.0314	39.5	0.3791	0.3791	39.5	-0.3134	0.4923	-39.5
1.85	1.5094	1.5457	2.1604	45.7	0.3234	0.3234	45.7	-0.3312	0.4629	-45.7
1.90	1.4565	1.7778	2.2982	50.7	0.2758	0.2758	50.7	-0.3366	0.4351	-50.7
1.95	1.3777	2.0531	2.4725	56.1	0.2254	0.2254	56.1	-0.3358	0.4044	-56.1
2.00	1.1691	2.2276	2.5157	62.3	0.1847	0.1847	62.3	-0.3520	0.3975	-62.3
2.05	1.3900	2.7862	3.1137	63.5	0.1434	0.1434	63.5	-0.2874	0.3212	-63.5
2.10	1.5104	3.2225	3.5589	64.9	0.1193	0.1193	64.9	-0.2544	0.2810	-64.9

H)	SOURCE L/4 OFF CENTER, L/(λ BDA)	G	D	MAG Y	Y=(-J/100)CUT(KL/4)	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0000	0.3193	0.3193	0.3193	90.0	90.0	0.0004	-3.1315	3.1315	-90.0
0.10	0.0007	0.6531	0.6531	0.6531	89.9	89.9	0.0015	-1.5312	1.5312	-89.9
0.15	0.0038	1.0198	1.0198	1.0199	89.8	89.8	0.0037	-0.9805	0.9805	-89.8
0.20	0.0152	1.4498	1.4498	1.4499	89.4	89.4	0.0072	-0.6897	0.6897	-89.4
0.25	0.0520	2.0025	2.0025	2.0032	88.5	88.5	0.0130	-0.4990	0.4992	-88.5
0.30	0.1811	2.8236	2.8236	2.8294	86.3	86.3	0.0226	-0.3527	0.3534	-86.3
0.35	0.7973	4.3665	4.3665	4.4387	79.7	79.7	0.0405	-0.2216	0.2253	-79.7
0.40	6.2501	6.2911	6.2911	8.8680	45.2	45.2	0.0795	-0.0800	0.1128	-45.2
0.45	3.8250	-2.2311	-2.2311	4.4281	-30.3	-30.3	0.1951	0.1138	0.2258	30.3
0.50	1.1420	-0.4567	-0.4567	1.2299	-21.8	-21.8	0.7549	0.3019	0.8131	21.8
0.55	0.5671	0.6901	0.6901	0.8932	50.6	50.6	0.7107	-0.8650	1.1196	-50.6
0.60	0.3562	1.5354	1.5354	1.5762	76.9	76.9	0.1434	-0.6180	0.6344	-76.9
0.65	0.2679	2.3232	2.3232	2.3386	83.4	83.4	0.0490	-0.4248	0.4276	-83.4
0.70	0.2616	3.1926	3.1926	3.2033	85.3	85.3	0.0255	-0.3111	0.3122	-85.3
0.75	0.3757	4.2899	4.2899	4.5063	85.0	85.0	0.0203	-0.2313	0.2322	-85.0
0.80	0.7838	5.8513	5.8513	5.9035	82.4	82.4	0.0225	-0.1679	0.1694	-82.4
0.85	2.1544	8.2966	8.2966	8.5718	75.4	75.4	0.0293	-0.1129	0.1167	-75.4
0.90	7.4044	11.3726	11.3726	13.5706	56.9	56.9	0.0402	-0.0618	0.0737	-56.9
0.95	16.5308	3.2180	3.2180	16.8411	11.0	11.0	0.0583	-0.0113	0.0594	-11.0
1.00	10.1187	-4.3165	-4.3165	11.0009	-23.1	-23.1	0.0836	0.0357	0.0909	23.1
1.05	5.6658	-3.9923	-3.9923	6.9311	-35.2	-35.2	0.1179	0.0831	0.1443	35.2
1.10	3.7314	-2.8832	-2.8832	4.7156	-37.7	-37.7	0.1678	0.1297	0.2121	37.7
1.15	2.7764	-1.9460	-1.9460	3.3904	-35.0	-35.0	0.2415	0.1693	0.2949	35.0
1.20	2.2423	-1.1865	-1.1865	2.5369	-27.9	-27.9	0.3484	0.1844	0.3942	27.9
1.25	1.9251	-0.5345	-0.5345	1.9979	-15.5	-15.5	0.4823	0.1339	0.5005	15.5
1.30	1.7511	0.0731	0.0731	1.7526	2.4	2.4	0.5701	-0.0238	0.5706	-2.4
1.35	1.7238	0.6930	0.6930	1.8579	21.9	21.9	0.4994	-0.2008	0.5382	-21.9
1.40	1.9562	1.3546	1.3546	2.3794	34.7	34.7	0.3455	-0.2393	0.4203	-34.7
1.45	2.7370	1.8249	1.8249	3.2897	33.7	33.7	0.2529	-0.1686	0.3040	-33.7
1.50	3.6752	1.1572	1.1572	3.8530	17.5	17.5	0.2476	-0.0779	0.2595	-17.5
1.55	3.2446	0.1933	0.1933	3.2503	3.4	3.4	0.3071	-0.0183	0.3077	-3.4
1.60	2.5141	0.1225	0.1225	2.5170	2.8	2.8	0.3968	-0.0193	0.3973	-2.8
1.65	2.0679	0.3775	0.3775	2.1021	10.3	10.3	0.4680	-0.0854	0.4757	-10.3
1.70	1.8125	0.6842	0.6842	1.9374	20.7	20.7	0.4829	-0.1823	0.5162	-20.7
1.75	1.6608	0.9852	0.9852	1.9310	30.7	30.7	0.4454	-0.2642	0.5179	-30.7
1.80	1.5706	1.2705	1.2705	2.0201	39.0	39.0	0.3849	-0.3113	0.4950	-39.0
1.85	1.5185	1.5342	1.5342	2.1587	45.3	45.3	0.3259	-0.3292	0.4633	-45.3
1.90	1.4665	1.7734	1.7734	2.3012	50.4	50.4	0.2769	-0.3349	0.4346	-50.4
1.95	1.3850	2.0529	2.0529	2.4764	56.0	56.0	0.2258	-0.3347	0.4038	-56.0
2.00	1.1691	2.2276	2.2276	2.5157	62.3	62.3	0.1847	-0.3520	0.3975	-62.3
2.05	1.3729	2.7794	2.7794	3.1000	63.7	63.7	0.1429	-0.2892	0.3226	-63.7
2.10	1.4504	3.1951	3.1951	3.5089	65.6	65.6	0.1178	-0.2595	0.2850	-65.6

Set IVV (L/2A = 100) Table I

1) SOURCE L/4 OFF CENTER, GROUND PLANE AT CENTER	L/(LAMBDA)	G	D	MAG Y	ANG Y	R	X	MAG Z	ANG Z
C.05	0.0001	0.4089	0.4089	90.0	90.0	0.0005	-2.4456	2.4456	-90.0
0.10	0.0013	0.8410	0.8410	89.9	89.9	0.0018	-1.1891	1.1891	-89.9
0.15	0.0074	1.3252	1.3252	89.7	89.7	0.0042	-0.7546	0.7546	-89.7
0.20	0.0282	1.9054	1.9056	89.2	89.2	0.0078	-0.5247	0.5248	-89.2
0.25	0.0897	2.6587	2.6602	88.1	88.1	0.0127	-0.3757	0.3759	-88.1
0.30	0.2722	3.7412	3.7510	85.8	85.8	0.0193	-0.2659	0.2666	-85.8
0.35	0.8799	5.5076	5.5774	80.9	80.9	0.0283	-0.1770	0.1793	-80.9
0.40	3.4958	8.6281	9.3094	67.9	67.9	0.0403	-0.0996	0.1074	-67.9
0.45	14.2647	6.9021	15.8468	25.8	25.8	0.0568	-0.0275	0.0631	-25.8
0.50	9.6660	-5.2591	11.0041	-28.5	-28.5	0.0798	0.0434	0.0909	28.5
0.55	4.2823	-4.4210	6.1549	-45.9	-45.9	0.1130	0.1167	0.1625	45.9
0.60	2.5192	-3.0192	3.9322	-50.2	-50.2	0.1629	0.1953	0.2543	50.2
0.65	1.7631	-2.0469	2.7016	-49.3	-49.3	0.2416	0.2805	0.3702	49.3
0.70	1.3635	-1.3447	1.9150	-44.6	-44.6	0.3718	0.3667	0.5222	44.6
0.75	1.1211	-0.7973	1.3757	-35.4	-35.4	0.5924	0.4213	0.7269	35.4
0.80	0.9595	-0.3409	1.0183	-19.6	-19.6	0.9254	0.3288	0.9821	19.6
0.85	0.8443	0.0617	0.8465	4.2	4.2	1.1782	-0.0861	1.1813	-4.2
0.90	0.7581	0.4346	0.8739	29.8	29.8	0.9928	-0.5692	1.1444	-29.8
0.95	0.6918	0.7957	1.0544	49.0	49.0	0.6223	-0.7157	0.9484	-49.0
1.00	0.6410	1.1601	1.3254	61.1	61.1	0.3649	-0.6604	0.7545	-61.1
1.05	0.6045	1.5437	1.6578	68.6	68.6	0.2199	-0.5617	0.6032	-68.6
1.10	0.5852	1.9658	2.0511	73.4	73.4	0.1391	-0.4673	0.4875	-73.4
1.15	0.5929	2.4541	2.5247	76.4	76.4	0.0930	-0.3850	0.3961	-76.4
1.20	0.6529	3.0513	3.1204	77.9	77.9	0.0671	-0.3134	0.3205	-77.9
1.25	0.8313	3.8285	3.9177	77.7	77.7	0.0542	-0.2494	0.2552	-77.7
1.30	1.3163	4.8930	5.0669	74.9	74.9	0.0513	-0.1906	0.1974	-74.9
1.35	2.6807	6.2656	6.8150	66.8	66.8	0.0577	-0.1349	0.1467	-66.8
1.40	6.1140	6.6695	9.0479	47.5	47.5	0.0747	-0.0815	0.1105	-47.5
1.45	8.7592	2.5871	9.1333	16.5	16.5	0.1050	-0.0310	0.1095	-16.5
1.50	6.5039	-0.5326	6.5256	-4.7	-4.7	0.1527	0.0125	0.1532	4.7
1.55	4.3883	-0.7838	4.4578	-10.1	-10.1	0.2208	0.0394	0.2243	10.1
1.60	3.2450	-0.3575	3.2646	-6.3	-6.3	0.3045	0.0335	0.3063	6.3
1.65	2.6146	0.1313	2.6179	2.9	2.9	0.3815	-0.0192	0.3820	-2.9
1.70	2.2401	0.5830	2.3147	14.6	14.6	0.4181	-0.1088	0.4320	-14.6
1.75	2.0043	0.9946	2.2375	26.4	26.4	0.4003	-0.1987	0.4469	-26.4
1.80	1.8514	1.3790	2.3085	36.7	36.7	0.3474	-0.2588	0.4332	-36.7
1.85	1.7535	1.7504	2.4777	44.9	44.9	0.2856	-0.2851	0.4036	-44.9
1.90	1.6969	2.1222	2.7172	51.4	51.4	0.2298	-0.2874	0.3680	-51.4
1.95	1.6763	2.5079	3.0166	56.2	56.2	0.1842	-0.2756	0.3315	-56.2
2.00	1.6933	2.9226	3.3777	59.9	59.9	0.1484	-0.2562	0.2961	-59.9
2.05	1.7573	3.3850	3.8140	62.6	62.6	0.1208	-0.2327	0.2622	-62.6
2.10	1.8905	3.9196	4.3516	64.3	64.3	0.0998	-0.2070	0.2298	-64.3

Set IV ($L/2A = 100$) Table J

J) MUTUAL ADMITTANCES OR IMPEDANCES, SOURCE L/4 OFF CENTER, Y=0 AT CENTER, OUTPUT POINT L/4 FROM CENTER								
L/(LAMBDA)	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0000	0.0135	0.0135	90.0	0.0395	-74.3293	74.3293	-90.0
0.10	0.0001	0.0279	0.0279	89.8	0.1495	-35.8375	35.8378	-89.8
0.15	0.0006	0.0444	0.0444	89.2	0.3080	-22.5085	22.5106	-89.2
0.20	0.0020	0.0643	0.0643	88.2	0.4865	-15.5526	15.5603	-88.2
0.25	0.0052	0.0889	0.0890	86.6	0.6574	-11.2162	11.2354	-86.6
0.30	0.0117	0.1202	0.1207	84.5	0.7995	-8.2430	8.2817	-84.5
0.35	0.0238	0.1608	0.1625	81.6	0.8993	-6.0873	6.1534	-81.6
0.40	0.0455	0.2140	0.2188	78.0	0.9514	-4.4702	4.5703	-78.0
0.45	0.0841	0.2845	0.2967	73.5	0.9558	-3.2323	3.3707	-73.5
0.50	0.1524	0.3781	0.4077	68.1	0.9169	-2.2752	2.4530	-68.1
0.55	0.2747	0.5010	0.5714	61.3	0.8414	-1.5346	1.7502	-61.3
0.60	0.4989	0.6538	0.8224	52.7	0.7376	-0.9666	1.2159	-52.7
0.65	0.9183	0.8079	1.2231	41.3	0.6138	-0.5400	0.8176	-41.3
0.70	1.6917	0.8190	1.8795	25.8	0.4789	-0.2518	0.5320	-25.8
0.75	2.9201	0.2086	2.9275	4.1	0.3407	-0.0243	0.3416	-4.1
0.80	3.9720	-1.8517	4.3824	-25.0	0.2068	0.0964	0.2282	25.0
0.85	3.0804	-5.2251	6.0655	-59.5	0.0837	0.1420	0.1649	59.5
0.90	-1.4826	-7.8902	8.0283	79.4	-0.0230	0.1224	0.1246	-79.4
0.95	-7.7659	-3.3090	8.4407	23.1	-0.1090	0.0464	0.1185	-23.1
1.00	-4.8447	2.2015	5.3214	-24.4	-0.1711	-0.0777	0.1879	24.4
1.05	-2.0382	2.3816	3.1347	-49.4	-0.2074	-0.2424	0.3190	49.4
1.10	-0.9034	1.8273	2.0384	-63.7	-0.2174	-0.4398	0.4906	63.7
1.15	-0.4210	1.3821	1.4448	-73.1	-0.2017	-0.6621	0.6921	73.1
1.20	-0.1929	1.0750	1.0922	-79.8	-0.1617	-0.9012	0.9156	79.8
1.25	-0.0750	0.8642	0.8674	-85.0	-0.0997	-1.1485	1.1528	85.0
1.30	-0.0091	0.7168	0.7168	-89.3	-0.0170	-1.3949	1.3951	89.3
1.35	0.0309	0.6114	0.6122	87.1	0.0824	-1.6313	1.6334	-87.1
1.40	0.0580	0.5346	0.5378	83.8	0.2004	-1.8487	1.8595	-83.8
1.45	0.0791	0.4772	0.4837	80.6	0.3381	-2.0395	2.0673	-80.6
1.50	0.0984	0.4325	0.4435	77.2	0.5001	-2.1986	2.2548	-77.2
1.55	0.1179	0.3946	0.4118	73.4	0.6950	-2.3267	2.4282	-73.4
1.60	0.1374	0.3578	0.3833	69.0	0.9352	-2.4357	2.6091	-69.0
1.65	0.1525	0.3171	0.3518	64.3	1.2319	-2.5616	2.8424	-64.3
1.70	0.1537	0.2729	0.3132	60.6	1.5672	-2.7820	3.1931	-60.6
1.75	0.1339	0.2368	0.2720	60.5	1.8099	-3.2000	3.6764	-60.5
1.80	0.0983	0.2247	0.2453	65.4	1.6344	-3.7350	4.0170	-66.4
1.85	0.0622	0.2484	0.2501	76.0	0.9478	-3.7882	3.9050	-76.0
1.90	0.0603	0.3114	0.3172	79.0	0.5990	-3.0949	3.1523	-79.0
1.95	0.1192	0.3516	0.3712	71.3	0.8649	-2.5512	2.6938	-71.3
2.00	0.1638	0.3469	0.3836	64.7	1.1133	-2.3572	2.6069	-64.7
2.05	0.1868	0.3492	0.3960	61.9	1.4910	-2.2267	2.5253	-61.9
2.10	0.2100	0.3670	0.4229	60.2	1.1743	-2.0527	2.3649	-60.2

Set IV ($L/2A = 100$) Table K

$L/(LAMBDA)$	$S(A)$	$S(B)$	$S(C)$	$S(D)$	$S(E)$	$S(F)$	$S(G)$
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.15	0.00004	0.00004	0.00003	0.00002	0.00001	0.00000	0.00003
0.20	0.00026	0.00024	0.00019	0.00012	0.00006	0.00002	0.00022
0.25	0.00130	0.00120	0.00094	0.00061	0.00029	0.00008	0.00111
0.30	0.00574	0.00529	0.00411	0.00261	0.00125	0.00032	0.00485
0.35	0.02507	0.02355	0.01807	0.01130	0.00529	0.00135	0.02147
0.40	0.13549	0.12367	0.09359	0.05741	0.02539	0.00664	0.11231
0.45	0.71306	0.64728	0.48244	0.28909	0.13025	0.03225	0.58650
0.50	0.60830	0.54938	0.40272	0.23623	0.10307	0.02521	0.49813
0.55	0.33357	0.29907	0.21536	0.12320	0.05267	0.01256	0.27262
0.60	0.23893	0.21279	0.15040	0.08376	0.03484	0.00813	0.19643
0.65	0.20092	0.17771	0.12522	0.06579	0.02099	0.00616	0.16801
0.70	0.18454	0.16210	0.11025	0.05814	0.02282	0.00509	0.15976
0.75	0.17831	0.15559	0.10386	0.05333	0.02034	0.00444	0.16440
0.80	0.17758	0.15399	0.10102	0.05059	0.01880	0.00402	0.18254
0.85	0.18093	0.15528	0.10034	0.04919	0.01767	0.00376	0.22113
0.90	0.18430	0.15831	0.10115	0.04882	0.01745	0.00363	0.28017
0.95	0.18940	0.16235	0.10316	0.04942	0.01755	0.00363	0.21195
1.00	0.19445	0.16684	0.10632	0.05117	0.01827	0.00380	0.05396
1.05	0.19851	0.17125	0.11081	0.05449	0.01989	0.00420	0.01977
1.10	0.20046	0.17506	0.11710	0.06020	0.02292	0.00498	0.01878
1.15	0.19885	0.17760	0.12613	0.06990	0.02839	0.00642	0.02197
1.20	0.19200	0.17308	0.13966	0.08586	0.03851	0.00914	0.02448
1.25	0.17895	0.17563	0.16115	0.11841	0.05848	0.01460	0.02558
1.30	0.16438	0.17066	0.19745	0.18277	0.10191	0.02669	0.02548
1.35	0.19461	0.17322	0.25946	0.32093	0.20656	0.05627	0.02597
1.40	0.48250	0.24235	0.32593	0.61192	0.43495	0.12186	0.03611
1.45	1.12252	0.42598	0.22919	0.70947	0.55777	0.15875	0.06292
1.50	1.27801	0.49006	0.07692	0.43694	0.37128	0.10611	0.07214
1.55	1.18075	0.47396	0.02215	0.25492	0.22831	0.06488	0.07057
1.60	1.10374	0.45640	0.00698	0.17034	0.15701	0.04403	0.07058
1.65	1.05764	0.44552	0.00279	0.12895	0.11993	0.03301	0.07481
1.70	1.03976	0.44250	0.00168	0.10711	0.09901	0.02667	0.08550
1.75	1.03777	0.44223	0.00139	0.09512	0.08650	0.02280	0.10813
1.80	1.04578	0.44444	0.00129	0.08808	0.07907	0.02041	0.15516
1.85	1.05995	0.44837	0.00120	0.08571	0.07491	0.01903	0.25194
1.90	1.07750	0.45301	0.00110	0.08517	0.07334	0.01845	0.38520
1.95	1.09614	0.46003	0.00105	0.08657	0.07419	0.01864	0.36223
2.00	1.11308	0.46770	0.00110	0.08983	0.07773	0.01975	0.23452
2.05	1.12704	0.47693	0.00130	0.09519	0.08501	0.02209	0.15576
2.10	1.13525	0.48832	0.00211	0.10333	0.09774	0.02635	0.11776

Set IV ($L/2A=100$) Table K (contd.)

$L/(LAMBDA)$	S(H)	S(I)	S(J)	S(K)	S(L)	S(M)	S(N)
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.15	0.00003	0.00003	0.00002	0.00001	0.00001	0.00000	0.00001
0.20	0.00019	0.00017	0.00014	0.00009	0.00004	0.00001	0.00006
0.25	0.00094	0.00086	0.00067	0.00043	0.00021	0.00005	0.00027
0.30	0.00411	0.00374	0.00288	0.00181	0.00086	0.00022	0.00114
0.35	0.01807	0.01638	0.01242	0.00769	0.00358	0.00091	0.00474
0.40	0.09359	0.08459	0.06342	0.03859	0.01762	0.00442	0.02340
0.45	0.48244	0.43640	0.32420	0.19411	0.08708	0.02153	0.11609
0.50	0.40272	0.36683	0.27132	0.16043	0.07086	0.01730	0.09518
0.55	0.21536	0.19942	0.14801	0.08696	0.03799	0.00918	0.05165
0.60	0.15040	0.14361	0.10824	0.06380	0.02775	0.00667	0.03842
0.65	0.12322	0.12398	0.09657	0.05787	0.02531	0.00608	0.03592
0.70	0.11025	0.12078	0.09965	0.06179	0.02749	0.00665	0.04027
0.75	0.10386	0.13033	0.11776	0.07716	0.03534	0.00866	0.05377
0.80	0.10102	0.15717	0.16260	0.11508	0.05483	0.01366	0.08697
0.85	0.10034	0.21831	0.27363	0.21340	0.10632	0.02696	0.17614
0.90	0.10115	0.34444	0.56015	0.48781	0.25402	0.06555	0.43931
0.95	0.10316	0.36328	0.82907	0.80889	0.43754	0.11364	0.78920
1.00	0.10632	0.13401	0.46655	0.50641	0.28191	0.07349	0.53036
1.05	0.11081	0.04097	0.23622	0.28122	0.15959	0.04156	0.31394
1.10	0.11710	0.01451	0.14913	0.19161	0.11008	0.02856	0.22767
1.15	0.12613	0.00589	0.11416	0.15654	0.09068	0.02343	0.19894
1.20	0.13966	0.00278	0.10149	0.14750	0.08657	0.02235	0.20395
1.25	0.16115	0.00187	0.10226	0.15879	0.09504	0.02464	0.24408
1.30	0.19745	0.00275	0.11589	0.19621	0.12135	0.03184	0.34549
1.35	0.25946	0.00792	0.14642	0.28032	0.18232	0.04881	0.58532
1.40	0.32593	0.02608	0.18148	0.41507	0.28952	0.07961	1.06476
1.45	0.22919	0.05015	0.12800	0.37751	0.28749	0.08145	1.22738
1.50	0.07692	0.04712	0.04351	0.18240	0.15336	0.04467	0.76883
1.55	0.02215	0.03863	0.01275	0.08459	0.07853	0.02334	0.46798
1.60	0.00698	0.03368	0.00409	0.04613	0.04667	0.01400	0.33653
1.65	0.00279	0.03121	0.00167	0.02955	0.03182	0.00953	0.28552
1.70	0.00168	0.03006	0.00102	0.02163	0.02410	0.00713	0.28075
1.75	0.00139	0.02974	0.00085	0.01774	0.01995	0.00579	0.31799
1.80	0.00129	0.03045	0.00081	0.01652	0.01848	0.00528	0.41609
1.85	0.00120	0.03428	0.00081	0.01915	0.02147	0.00612	0.61515
1.90	0.00110	0.04624	0.00090	0.02956	0.03344	0.00963	0.84530
1.95	0.00105	0.05365	0.00101	0.03960	0.04526	0.01306	0.70388
2.00	0.00110	0.05916	0.00105	0.05991	0.04577	0.01324	0.40095
2.05	0.00136	0.05676	0.00124	0.03875	0.04557	0.01338	0.23650
2.10	0.00211	0.05559	0.00184	0.03969	0.04951	0.01498	0.16321

Set IV ($L/2A=100$) Table K (contd.)

$L/(\lambda)$	$S(U)$	$S(P)$	$S(Q)$	$S(R)$	$S(S)$	$S(T)$	$S(U)$
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.15	0.00001	0.00001	0.00001	0.00000	0.00000	0.00000	0.00000
0.20	0.00006	0.00006	0.00004	0.00003	0.00001	0.00000	0.00000
0.25	0.00029	0.00027	0.00021	0.00013	0.00006	0.00002	0.00000
0.30	0.00125	0.00113	0.00086	0.00054	0.00025	0.00006	0.00002
0.35	0.00529	0.00476	0.00358	0.00220	0.00102	0.00026	0.00007
0.40	0.02639	0.02367	0.01762	0.01066	0.00484	0.00121	0.00030
0.45	0.13025	0.11750	0.08708	0.05203	0.02331	0.00576	0.00142
0.50	0.10367	0.09514	0.07086	0.04215	0.01871	0.00458	0.00112
0.55	0.05267	0.05003	0.03799	0.02275	0.01009	0.00246	0.00060
0.60	0.03684	0.03514	0.02775	0.01699	0.00760	0.00186	0.00046
0.65	0.02699	0.03001	0.02531	0.01612	0.00736	0.00182	0.00045
0.70	0.02282	0.02956	0.02749	0.01853	0.00871	0.00218	0.00055
0.75	0.02034	0.03325	0.03534	0.02559	0.01245	0.00315	0.00080
0.80	0.01880	0.04357	0.05483	0.04296	0.02161	0.00553	0.00142
0.85	0.01787	0.06928	0.10632	0.09015	0.04667	0.01204	0.00311
0.90	0.01745	0.13308	0.25402	0.23160	0.12263	0.03174	0.00821
0.95	0.01755	0.18246	0.43754	0.42582	0.22930	0.05938	0.01537
1.00	0.01827	0.09307	0.29191	0.29114	0.15911	0.04121	0.01067
1.05	0.01589	0.06129	0.15959	0.17486	0.09713	0.02519	0.00654
1.10	0.02292	0.02174	0.11008	0.12884	0.07309	0.01904	0.00498
1.15	0.02839	0.01295	0.09068	0.11496	0.06713	0.01764	0.00466
1.20	0.03851	0.00822	0.08657	0.12135	0.07354	0.01956	0.00524
1.25	0.05848	0.00570	0.09504	0.15100	0.09568	0.02582	0.00701
1.30	0.10191	0.00629	0.12135	0.22432	0.14922	0.04085	0.01123
1.35	0.20656	0.01692	0.18232	0.40140	0.28042	0.07772	0.02159
1.40	0.43495	0.06132	0.28952	0.72771	0.56524	0.15817	0.04426
1.45	0.55777	0.12626	0.28749	0.93996	0.71677	0.20198	0.05685
1.50	0.37128	0.12312	0.15336	0.61764	0.48920	0.13863	0.03925
1.55	0.22831	0.10472	0.07853	0.39180	0.32200	0.09179	0.02619
1.60	0.15701	0.09749	0.04667	0.29231	0.24994	0.07183	0.02071
1.65	0.11993	0.10195	0.03182	0.25721	0.23027	0.06692	0.01956
1.70	0.09901	0.12028	0.02410	0.26354	0.24925	0.07351	0.02184
1.75	0.08656	0.16176	0.01995	0.31408	0.31688	0.09510	0.02875
1.80	0.07907	0.25130	0.01848	0.43827	0.47574	0.14543	0.04471
1.85	0.07491	0.44263	0.02147	0.70131	0.82334	0.25616	0.07992
1.90	0.07334	0.72471	0.03344	1.05671	1.34332	0.42453	0.13413
1.95	0.07419	0.71281	0.04526	0.97241	1.35556	0.42765	0.13664
2.00	0.07778	0.46999	0.04577	0.61244	0.90553	0.29326	0.09476
2.05	0.08501	0.31099	0.04557	0.39673	0.63003	0.20631	0.06752
2.10	0.09774	0.23161	0.04951	0.29744	0.50800	0.16845	0.05599

Set IV ($L/2A = 100$) Table I

VI	ECHO AREAS/($LAMBDA$ SQUARED) FOR LOADED SCATTERER (BROADSIDE INCIDENCE)	S(I)				S(H)				S(I)			
	$L/(LAMBDA)$ S(A)	S(B)	S(C)	S(D)	S(E)	S(F)	S(G)	S(H)	S(I)				
0.05	0.71736	0.00000	0.00000	0.00000	0.00000	0.00000	0.17934	0.00000	0.00000	0.17934	0.00000	0.00000	0.00000
0.10	0.72110	0.00000	0.00000	0.00000	0.00000	0.00000	0.18028	0.00000	0.00000	0.18028	0.00000	0.00000	0.00000
0.15	0.72730	0.00006	0.00004	0.00000	0.00001	0.00001	0.18183	0.00004	0.00003	0.18183	0.00004	0.00003	0.00003
0.20	0.73617	0.00097	0.00036	0.00002	0.00009	0.00005	0.18411	0.00025	0.00020	0.18411	0.00025	0.00020	0.00020
0.25	0.74731	0.00431	0.00249	0.00010	0.00042	0.00023	0.18715	0.00124	0.00084	0.18715	0.00124	0.00084	0.00084
0.30	0.75841	0.00431	0.02449	0.00033	0.00154	0.00078	0.19104	0.00522	0.00272	0.19104	0.00522	0.00272	0.00272
0.35	0.75793	0.00139	0.75793	0.00094	0.00507	0.00237	0.19590	0.02040	0.00721	0.19590	0.02040	0.00721	0.00721
0.40	0.67201	0.00047	0.06916	0.00242	0.01606	0.00666	0.20188	0.07276	0.01600	0.20188	0.07276	0.01600	0.01600
0.45	0.12354	0.00003	0.02991	0.00581	0.05165	0.01797	0.20915	0.17560	0.02990	0.20915	0.17560	0.02990	0.02990
0.50	0.26294	0.00026	0.01918	0.01336	0.17666	0.04830	0.21796	0.21340	0.04787	0.21796	0.21340	0.04787	0.04787
0.55	0.58066	0.00213	0.01355	0.03001	0.58066	0.13234	0.22857	0.19081	0.06772	0.22857	0.19081	0.06772	0.06772
0.60	0.72638	0.00807	0.00918	0.06682	0.96223	0.36299	0.24136	0.16983	0.08782	0.24136	0.16983	0.08782	0.08782
0.65	0.82592	0.02377	0.00510	0.14874	0.74344	0.82592	0.25679	0.15874	0.10769	0.25679	0.15874	0.10769	0.10769
0.70	0.91661	0.06302	0.00149	0.32831	0.54055	1.09446	0.27547	0.15474	0.12764	0.27547	0.15474	0.12764	0.12764
0.75	1.01292	0.15966	0.00007	0.68012	0.43522	0.95025	0.29820	0.15530	0.14825	0.29820	0.15530	0.14825	0.14825
0.80	1.12346	0.39207	0.00632	1.15593	0.38099	0.76810	0.32605	0.15889	0.17014	0.32605	0.15889	0.17014	0.17014
0.85	1.25561	0.87924	0.03633	1.43169	0.35282	0.64975	0.36047	0.16456	0.19390	0.36047	0.16456	0.19390	0.19390
0.90	1.41720	1.50800	0.13889	1.39257	0.33907	0.57996	0.40338	0.17168	0.22015	0.40338	0.17168	0.22015	0.22015
0.95	1.61703	1.74809	0.46298	1.24246	0.33394	0.54004	0.45729	0.17981	0.24956	0.45729	0.17981	0.24956	0.24956
1.00	1.86424	1.59428	1.32442	1.10601	0.33419	0.51862	0.52525	0.18864	0.28296	0.52525	0.18864	0.28296	0.28296
1.05	2.16531	1.37646	2.34974	1.00738	0.33781	0.50921	0.61036	0.19800	0.32139	0.61036	0.19800	0.32139	0.32139
1.10	2.51580	1.20941	2.29391	0.94148	0.34336	0.50800	0.71412	0.20803	0.36621	0.71412	0.20803	0.36621	0.36621
1.15	2.88290	1.09668	1.83976	0.89981	0.34965	0.51263	0.83250	0.21959	0.41918	0.83250	0.21959	0.41918	0.41918
1.20	3.18068	1.02368	1.50597	0.87570	0.35563	0.52160	0.94953	0.23546	0.48240	0.94953	0.23546	0.48240	0.48240
1.25	3.26950	0.97607	1.30017	0.86448	0.36044	0.53407	1.03493	0.26350	0.55788	1.03493	0.26350	0.55788	0.55788
1.30	3.04688	0.95155	1.17431	0.86301	0.36429	0.54985	1.06208	0.32437	0.64642	1.06208	0.32437	0.64642	0.64642
1.35	2.57472	0.93869	1.09676	0.86916	0.37233	0.57005	1.04270	0.46334	0.74521	1.04270	0.46334	0.74521	0.74521
1.40	1.89301	0.93593	1.04956	0.88149	0.41092	0.59904	1.01972	0.72262	0.84514	1.01972	0.72262	0.84514	0.84514
1.45	1.03928	0.94084	1.02229	0.89899	0.57274	0.64960	1.01500	0.99620	0.93141	1.01500	0.99620	0.93141	0.93141
1.50	0.80527	0.95168	1.00868	0.92092	0.91018	0.74905	1.02028	1.10957	0.99093	1.02028	1.10957	0.99093	0.99093
1.55	0.88080	0.96702	1.00468	0.94644	1.08898	0.90244	1.02497	1.10412	1.02141	1.02497	1.10412	1.02141	1.02141
1.60	0.95555	0.98536	1.00744	0.97405	1.08442	0.91287	1.02686	1.07227	1.03135	1.02686	1.07227	1.03135	1.03135
1.65	0.99884	1.00467	1.01478	1.00070	1.05509	1.03844	1.02803	1.04825	1.03235	1.02803	1.04825	1.03235	1.03235
1.70	1.02190	1.02211	1.02472	1.02192	1.03947	1.03668	1.03081	1.03732	1.03283	1.03081	1.03732	1.03283	1.03283
1.75	1.03534	1.03539	1.03539	1.03562	1.03779	1.03761	1.03655	1.03747	1.03692	1.03655	1.03747	1.03692	1.03692
1.80	1.04561	1.04556	1.04562	1.04556	1.04575	1.04570	1.04569	1.04576	1.04571	1.04569	1.04576	1.04571	1.04571
1.85	1.05621	1.05636	1.05599	1.05676	1.05968	1.05919	1.05808	1.05954	1.05867	1.05808	1.05954	1.05867	1.05867
1.90	1.06906	1.06974	1.06825	1.07066	1.07678	1.07563	1.07327	1.07659	1.07456	1.07327	1.07659	1.07456	1.07456
1.95	1.08542	1.08482	1.08271	1.08595	1.09472	1.09277	1.09077	1.09491	1.09184	1.09077	1.09491	1.09184	1.09184
2.00	1.10678	1.09963	1.09773	1.10069	1.11130	1.10848	1.11018	1.11259	1.10886	1.11018	1.11259	1.10886	1.10886
2.05	1.13568	1.11226	1.11124	1.11298	1.12417	1.12056	1.13157	1.12763	1.12397	1.13157	1.12763	1.12397	1.12397
2.10	1.17727	1.12104	1.12153	1.12113	1.13063	1.12658	1.15599	1.13803	1.13573	1.15599	1.13803	1.13573	1.13573

VIII	PRIME	ADMITTANCE	PARAMETERS	(MILLIMHUS) FUK
	CENTER	SCATTERER,	NORMAL INCIDENCE	
L/(LAMBDA)	RE DY11	IM DY11	RE Y12	IM Y12
0.05	0.00000	0.00008	0.00000	0.00441
0.10	0.00000	0.00064	0.00004	0.01853
0.15	0.00002	0.00230	0.00032	0.04408
0.20	0.00011	0.00501	0.00152	0.08661
0.25	0.00050	0.01348	0.00649	0.15603
0.30	0.00245	0.02827	0.02382	0.27427
0.35	0.01081	0.05900	0.09069	0.49395
0.40	0.05626	0.12581	0.41626	0.92898
0.45	0.29156	0.12230	1.93427	0.80825
0.50	0.24489	-0.15933	1.47614	-0.96521
0.55	0.13188	-0.17138	0.75008	-0.95602
0.60	0.09281	-0.15774	0.47613	-0.81975
0.65	0.07667	-0.14930	0.36729	-0.73001
0.70	0.06920	-0.14520	0.31158	-0.67423
0.75	0.06577	-0.14378	0.27987	-0.63978
0.80	0.06452	-0.14399	0.26072	-0.61954
0.85	0.06459	-0.14515	0.24880	-0.60967
0.90	0.06550	-0.14679	0.24130	-0.60818
0.95	0.06701	-0.14853	0.23653	-0.61425
1.00	0.06897	-0.15001	0.23328	-0.62799
1.05	0.07131	-0.15081	0.23047	-0.65044
1.10	0.07408	-0.15038	0.22666	-0.68383
1.15	0.07748	-0.14790	0.21941	-0.73219
1.20	0.08212	-0.14203	0.20352	-0.80258
1.25	0.08974	-0.13047	0.16632	-0.90725
1.30	0.10554	-0.10944	0.07256	-1.06480
1.35	0.14642	-0.07646	-0.18356	-1.27686
1.40	0.25171	-0.06544	-0.81724	-1.30379
1.45	0.34836	-0.18978	-1.29059	-0.50612
1.50	0.29694	-0.30165	-0.86335	0.09894
1.55	0.24036	-0.32827	-0.47067	0.17688
1.60	0.21038	-0.33175	-0.25886	0.13468
1.65	0.19540	-0.33180	-0.14125	0.08475
1.70	0.18813	-0.33222	-0.07001	0.04526
1.75	0.18510	-0.33351	-0.02337	0.01728
1.80	0.18457	-0.33547	0.00917	-0.00078
1.85	0.18565	-0.33783	0.03319	-0.01022
1.90	0.18781	-0.34027	0.05191	-0.01171
1.95	0.19077	-0.34246	0.06751	-0.00522
2.00	0.19438	-0.34401	0.08175	0.01005
2.05	0.19864	-0.34442	0.09656	0.03587
2.10	0.20374	-0.34249	0.11477	0.07542

I INPUT ADMITTANCES (MILLIHMS) AND IMPEDANCES (KILO-OHMS)									
A) SOURCE AT CENTER									
L/(LAMBDA)	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z	
0.05	0.0000	0.3200	0.3200	90.0	0.0004	-3.1254	3.1254	-90.0	
0.10	0.0007	0.6572	0.6572	89.9	0.0017	-1.5217	1.5217	-89.9	
0.15	0.0043	1.0331	1.0331	89.6	0.0040	-0.9679	0.9680	-89.8	
0.20	0.0164	1.4801	1.4802	89.4	0.0075	-0.6756	0.6756	-89.4	
0.25	0.0524	2.0547	2.0554	88.5	0.0124	-0.4864	0.4865	-88.5	
0.30	0.1588	2.8716	2.8760	86.8	0.0192	-0.3472	0.3477	-86.8	
0.35	0.5119	4.2001	4.2311	83.1	0.0286	-0.2346	0.2363	-83.1	
0.40	2.0476	6.7089	7.0144	73.0	0.0416	-0.1364	0.1426	-73.0	
0.45	10.6960	7.9997	13.3566	36.8	0.0600	-0.0448	0.0749	-36.8	
0.50	9.0716	-4.7688	10.2487	-27.7	0.0864	0.0454	0.0976	27.7	
0.55	3.5837	-3.9617	5.3421	-47.9	0.1250	0.1388	0.1872	47.9	
0.60	2.0283	-2.6057	3.3020	-52.1	0.1860	0.2390	0.3028	52.1	
0.65	1.4129	-1.7293	2.2331	-50.8	0.2833	0.3468	0.4478	50.8	
0.70	1.1042	-1.1205	1.5732	-45.4	0.4462	0.4528	0.6357	45.4	
0.75	0.9255	-0.6571	1.1351	-35.4	0.7184	0.5100	0.8810	35.4	
0.80	0.8122	-0.2763	0.8580	-18.8	1.1035	0.3754	1.1656	18.8	
0.85	0.7363	0.0567	0.7385	4.4	1.3501	-0.1039	1.3541	-4.4	
0.90	0.6841	0.3639	0.7748	28.0	1.1394	-0.6061	1.2906	-28.0	
0.95	0.6487	0.6610	0.9262	45.5	0.7562	-0.7706	1.0797	-45.5	
1.00	0.6273	0.9616	1.1481	56.9	0.4758	-0.7295	0.8710	-56.9	
1.05	0.6196	1.2794	1.4216	64.2	0.3066	-0.6331	0.7034	-64.2	
1.10	0.6294	1.6312	1.7484	68.9	0.2059	-0.5336	0.5720	-68.9	
1.15	0.6659	2.0402	2.1402	71.9	0.1446	-0.4430	0.4059	-71.9	
1.20	0.7510	2.5433	2.6518	73.5	0.1068	-0.3617	0.3771	-73.5	
1.25	0.9385	3.2016	3.3363	73.7	0.0843	-0.2876	0.2997	-73.7	
1.30	1.3753	4.1183	4.3418	71.5	0.0730	-0.2185	0.2303	-71.5	
1.35	2.5225	5.4036	5.9634	65.0	0.0709	-0.1519	0.1677	-65.0	
1.40	5.7710	6.3623	8.5897	47.8	0.0782	-0.0862	0.1164	-47.8	
1.45	9.9570	2.0517	10.1662	11.0	0.0963	-0.0199	0.0984	-11.6	
1.50	6.8240	-2.5359	7.2800	-20.4	0.1288	0.0478	0.1374	20.4	
1.55	3.9189	-2.4974	4.6471	-32.5	0.1815	0.1156	0.2152	32.5	
1.60	2.6086	-1.7587	3.1461	-34.0	0.2636	0.1777	0.3179	34.0	
1.65	1.9681	-1.1114	2.2603	-29.5	0.3852	0.2176	0.4424	29.5	
1.70	1.6132	-0.5921	1.7185	-20.2	0.5463	0.2005	0.5819	20.2	
1.75	1.3969	-0.1632	1.4064	-6.7	0.7062	0.0825	0.7110	6.7	
1.80	1.2561	0.2078	1.2732	9.4	0.7749	-0.1282	0.7854	-9.4	
1.85	1.1611	0.5442	1.2823	25.1	0.7061	-0.3310	0.7798	-25.1	
1.90	1.0969	0.8635	1.3960	38.2	0.5629	-0.4431	0.7164	-38.2	
1.95	1.0561	1.1798	1.5834	48.2	0.4212	-0.4706	0.6316	-48.2	
2.00	1.0364	1.5068	1.8288	55.5	0.3099	-0.4505	0.5468	-55.5	
2.05	1.0400	1.8598	2.1308	60.8	0.2290	-0.4096	0.4693	-60.8	
2.10	1.0752	2.2585	2.5014	64.5	0.1718	-0.3610	0.3998	-64.5	

Set V ($L/2A = 200$) Table B

B) SOURCE L/8 OFF CENTER										
L/(LAMBDA)	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z		
0.05	0.0000	0.3047	0.3047	70.0	0.0004	-3.2816	3.2816	-90.0		
0.10	0.0007	0.6249	0.6249	89.9	0.0017	-1.6004	1.6004	-89.9		
0.15	0.0038	0.9795	0.9795	89.8	0.0040	-1.0209	1.0210	-89.8		
0.20	0.0146	1.3971	1.3972	89.4	0.0075	-0.7157	0.7157	-89.4		
0.25	0.0464	1.9276	1.9282	88.6	0.0125	-0.5185	0.5186	-88.6		
0.30	0.1404	2.6711	2.6748	87.0	0.0196	-0.3733	0.3739	-87.0		
0.35	0.4506	3.8622	3.8884	83.3	0.0298	-0.2554	0.2572	-83.3		
0.40	1.7939	6.0808	6.3399	73.6	0.0446	-0.1513	0.1577	-73.6		
0.45	9.3212	7.2212	11.7911	37.8	0.0670	-0.0519	0.0848	-37.8		
0.50	7.8630	-3.8259	8.7443	-25.9	0.1028	0.0500	0.1144	25.9		
0.55	3.0917	-3.0366	4.3335	-44.5	0.1646	0.1617	0.2308	44.5		
0.60	1.7462	-1.7658	2.4834	-45.3	0.2831	0.2863	0.4027	45.3		
0.65	1.2222	-0.8893	1.5115	-36.0	0.5350	0.3892	0.6616	36.0		
0.70	0.9758	-0.2050	0.9971	-11.9	0.9814	0.2062	1.0029	11.9		
0.75	0.8696	0.4218	0.9665	25.9	0.9309	-0.4516	1.0347	-25.9		
0.80	0.8927	1.1008	1.4173	51.0	0.4444	-0.5480	0.7056	-51.0		
0.85	1.1782	1.9678	2.2936	59.1	0.2240	-0.3741	0.4360	-59.1		
0.90	2.3672	3.0658	3.8733	52.3	0.1578	-0.2043	0.2582	-52.3		
0.95	5.4420	1.9484	5.7803	19.7	0.1629	-0.0583	0.1730	-19.7		
1.00	4.1038	-1.3233	4.3119	-17.9	0.2207	0.0712	0.2319	17.9		
1.05	2.3007	-1.2017	2.5956	-27.6	0.3415	0.1784	0.3853	27.6		
1.10	1.5813	-0.6398	1.7058	-22.0	0.5434	0.2199	0.5862	22.0		
1.15	1.2578	-0.1522	1.2670	-6.9	0.7836	0.0948	0.7893	6.9		
1.20	1.0971	0.2695	1.1297	13.8	0.8596	-0.2112	0.8852	-13.8		
1.25	1.0279	0.6645	1.2240	32.9	0.6861	-0.4436	0.8170	-32.9		
1.30	1.0444	1.0693	1.4947	45.7	0.4675	-0.4786	0.6690	-45.7		
1.35	1.2122	1.5088	1.9354	51.2	0.3236	-0.4028	0.5167	-51.2		
1.40	1.7486	1.8497	2.5453	46.6	0.2699	-0.2855	0.3929	-46.6		
1.45	2.3604	1.2801	2.6852	28.5	0.3274	-0.1775	0.3724	-28.5		
1.50	1.7310	0.8139	1.9128	25.2	0.4731	-0.2224	0.5228	-25.2		
1.55	1.2406	1.1603	1.6986	43.1	0.4300	-0.4021	0.5887	-43.1		
1.60	1.0561	1.6407	1.9512	57.2	0.2774	-0.4310	0.5125	-57.2		
1.65	1.0195	2.1612	2.3896	64.7	0.1785	-0.3785	0.4185	-64.7		
1.70	1.0962	2.7610	2.9706	68.3	0.1242	-0.3129	0.3366	-68.3		
1.75	1.3381	3.5107	3.7571	69.1	0.0948	-0.2487	0.2662	-69.1		
1.80	1.9394	4.5020	4.9020	66.7	0.0807	-0.1874	0.2040	-66.7		
1.85	3.4865	5.6985	6.6805	58.5	0.0781	-0.1277	0.1457	-58.5		
1.90	7.1169	5.6399	9.0807	38.4	0.0863	-0.0684	0.1101	-38.4		
1.95	9.3013	0.7553	9.3319	4.6	0.1068	-0.0087	0.1072	-4.6		
2.00	6.1884	-2.2003	6.5680	-19.6	0.1435	0.0510	0.1523	19.6		
2.05	3.8574	-2.0362	4.3618	-27.8	0.2027	0.1070	0.2293	27.8		
2.10	2.7164	-1.3746	3.0443	-26.8	0.2931	0.1483	0.3285	26.8		

Set V ($L/2A = 200$) Table C

C) SOURCE L/4 OFF CENTER L/(λ BDA)	G	H	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0000	0.2579	0.2579	90.0	0.0004	-3.8777	3.8777	-90.0
0.10	0.0005	0.5262	0.5262	90.0	0.0016	-1.9005	1.9005	-90.0
0.15	0.0026	0.8176	0.8176	89.8	0.0039	-1.2230	1.2230	-89.8
0.20	0.0098	1.1511	1.1511	89.5	0.0074	-0.8687	0.8688	-89.5
0.25	0.0308	1.5584	1.5587	88.9	0.0127	-0.6414	0.6415	-88.9
0.30	0.0922	2.1036	2.1056	87.5	0.0208	-0.4745	0.4749	-87.5
0.35	0.2923	2.9338	2.9483	84.3	0.0336	-0.3375	0.3392	-84.3
0.40	1.1469	4.4079	4.5547	75.4	0.0553	-0.2125	0.2196	-75.4
0.45	5.8645	5.1716	7.8191	41.4	0.0959	-0.0846	0.1279	-41.4
0.50	4.8661	-1.6092	5.1252	-18.3	0.1852	0.0613	0.1951	18.3
0.55	1.8863	-0.9347	2.1051	-26.4	0.4256	0.2109	0.4750	26.4
0.60	1.0589	0.0455	1.0599	2.5	0.9426	-0.0405	0.9435	-2.5
0.65	0.7519	0.8172	1.1105	47.4	0.6098	-0.6627	0.9005	-47.4
0.70	0.6369	1.5349	1.6618	67.5	0.2306	-0.5558	0.6018	-67.5
0.75	0.6541	2.3275	2.4177	74.3	0.1119	-0.3982	0.4136	-74.3
0.80	0.8696	3.3471	3.4582	75.4	0.0727	-0.2799	0.2892	-75.4
0.85	1.6117	4.8337	5.0953	71.6	0.0621	-0.1862	0.1963	-71.6
0.90	4.2784	6.8201	8.0510	57.9	0.0660	-0.1052	0.1242	-57.9
0.95	10.8620	3.9820	11.5689	20.1	0.0812	-0.0298	0.0864	-20.1
1.00	7.8357	-3.2305	8.4755	-22.4	0.1091	0.0450	0.1180	22.4
1.05	3.9765	-3.1099	5.0481	-38.0	0.1560	0.1220	0.1981	38.0
1.10	2.4587	-2.0873	3.2252	-40.3	0.2364	0.2007	0.3101	40.3
1.15	1.7779	-1.2351	2.1648	-34.8	0.3794	0.2636	0.4619	34.8
1.20	1.4326	-0.5228	1.5250	-20.0	0.6160	0.2248	0.6558	20.0
1.25	1.2706	0.1435	1.2787	6.4	0.7771	-0.0878	0.7821	-6.4
1.30	1.2831	0.8604	1.5448	33.8	0.5376	-0.3605	0.6473	-33.8
1.35	1.6396	1.7276	2.3818	46.5	0.2890	-0.3045	0.4199	-46.5
1.40	2.9856	2.5217	3.9080	40.2	0.1955	-0.1651	0.2559	-40.2
1.45	5.0482	0.9691	5.1404	10.9	0.1910	-0.0367	0.1945	-10.9
1.50	3.8463	-1.1115	4.0037	-16.1	0.2400	0.0693	0.2498	16.1
1.55	2.5132	-1.1134	2.7488	-23.9	0.3326	0.1474	0.3638	23.9
1.60	1.8679	-0.7269	2.0044	-21.3	0.4649	0.1809	0.4989	21.3
1.65	1.5348	-0.3539	1.5751	-13.0	0.6187	0.1426	0.6349	13.0
1.70	1.3424	-0.0289	1.3427	-1.2	0.7446	0.0161	0.7448	1.2
1.75	1.2226	0.2583	1.2496	11.9	0.7830	-0.1654	0.8003	-11.9
1.80	1.1462	0.5194	1.2584	24.4	0.7238	-0.3280	0.7947	-24.4
1.85	1.0993	0.7597	1.3362	34.6	0.6157	-0.4255	0.7484	-34.6
1.90	1.0643	0.5758	1.4439	42.5	0.5105	-0.4680	0.6926	-42.5
1.95	1.0023	1.1981	1.5621	50.1	0.4108	-0.4910	0.6402	-50.1
2.00	0.9616	1.4781	1.7634	57.0	0.3093	-0.4754	0.5671	-57.0
2.05	0.9649	1.7765	2.0216	61.5	0.2361	-0.4347	0.4947	-61.5
2.10	0.9972	2.0970	2.3220	64.6	0.1850	-0.3889	0.4307	-64.6

Set V (L/2A = 200) Table D

D) SOURCE 3L/8 OFF CENTER L/(LAMBDA)	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0000	0.1742	90.0	0.0003	-5.7404	5.7404	-90.0
0.10	0.0002	0.3525	90.0	0.0014	-2.8368	2.8368	-90.0
0.15	0.0010	0.5398	89.9	0.0035	-1.8524	1.8524	-89.9
0.20	0.0038	0.7432	89.7	0.0068	-1.3454	1.3455	-89.7
0.25	0.0118	0.9744	89.3	0.0124	-1.0262	1.0262	-89.3
0.30	0.0346	1.2558	88.4	0.0219	-0.7957	0.7960	-88.4
0.35	0.1073	1.6385	86.3	0.0398	-0.6077	0.6090	-86.3
0.40	0.4108	2.2438	79.6	0.0790	-0.4312	0.4384	-79.6
0.45	2.0434	3.2929	51.6	0.1884	-0.2381	0.3037	-51.6
0.50	1.6479	1.6876	12.5	0.5784	-0.1282	0.5925	-12.5
0.55	0.6234	0.9736	50.2	0.6576	-0.7889	1.0271	-50.2
0.60	0.3466	1.2828	74.3	0.2106	-0.7505	0.7795	-74.3
0.65	0.2523	1.6668	81.4	0.0888	-0.5865	0.5932	-81.4
0.70	0.2324	2.1207	83.7	0.0517	-0.4687	0.4715	-83.7
0.75	0.2774	2.6339	84.0	0.0400	-0.3776	0.3797	-84.0
0.80	0.4388	3.3111	82.4	0.0400	-0.2993	0.3020	-82.4
0.85	0.9221	4.2274	77.7	0.0493	-0.2258	0.2311	-77.7
0.90	2.5623	5.4386	64.8	0.0709	-0.1505	0.1663	-64.8
0.95	6.4087	7.3983	30.0	0.1171	-0.0675	0.1352	-30.0
1.00	4.4233	4.4393	-4.9	0.2244	0.0191	0.2253	4.9
1.05	2.1369	2.1371	-0.9	0.4679	0.0074	0.4679	0.9
1.10	1.2763	1.5193	32.9	0.5529	-0.3571	0.6582	-32.9
1.15	0.9264	1.8604	60.1	0.2676	-0.4661	0.5375	-60.1
1.20	0.8066	2.5226	71.4	0.1268	-0.3756	0.3964	-71.4
1.25	0.8691	3.3715	75.1	0.0765	-0.2866	0.2966	-75.1
1.30	1.2190	4.5134	74.3	0.0598	-0.2133	0.2216	-74.3
1.35	2.2935	6.2200	68.4	0.0593	-0.1494	0.1608	-68.4
1.40	5.4573	8.7934	51.6	0.0706	-0.0892	0.1137	-51.6
1.45	9.5659	9.9721	16.4	0.0962	-0.0283	0.1003	-16.4
1.50	6.4639	6.6417	-13.3	0.1465	0.0346	0.1506	13.3
1.55	3.5925	3.8120	-19.5	0.2472	0.0877	0.2623	19.5
1.60	2.3127	2.3297	-6.9	0.4261	0.0518	0.4292	6.9
1.65	1.7274	1.8633	22.0	0.4975	-0.2013	0.5367	-22.0
1.70	1.4896	1.6702	48.3	0.2974	-0.3335	0.4468	-48.3
1.75	1.5336	3.1396	60.8	0.1556	-0.2779	0.3185	-60.8
1.80	2.0129	4.0397	63.5	0.0988	-0.1983	0.2216	-63.5
1.85	3.5368	5.5773	57.6	0.0811	-0.1279	0.1514	-57.6
1.90	7.3877	9.4213	38.4	0.0832	-0.0659	0.1061	-38.4
1.95	9.9274	9.9631	4.9	0.1000	-0.0085	0.1004	-4.9
2.00	6.6818	7.0764	-19.2	0.1334	0.0465	0.1413	19.2
2.05	4.1434	4.6400	-26.8	0.1924	0.0970	0.2155	-26.8
2.10	2.8815	3.1304	-23.0	0.2941	0.1248	0.3195	-23.0

E) SOURCE $L/4$ OFF CENTER, $Y=0$ AT CENTER $L/(\lambda \text{MBDA})$	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0000	0.1912	0.1912	90.0	0.0001	-5.2303	5.2303	-90.0
0.10	0.0001	0.3850	0.3850	90.0	0.0005	-2.5973	2.5973	-90.0
0.15	0.0004	0.5843	0.5843	90.0	0.0011	-1.7115	1.7115	-90.0
0.20	0.0013	0.7921	0.7921	89.9	0.0021	-1.2624	1.2624	-89.9
0.25	0.0034	1.0122	1.0122	89.8	0.0033	-0.9879	0.9879	-89.8
0.30	0.0076	1.2492	1.2492	89.7	0.0049	-0.8005	0.8005	-89.7
0.35	0.0155	1.5088	1.5088	89.4	0.0068	-0.6627	0.6627	-89.4
0.40	0.0299	1.7990	1.7992	89.0	0.0092	-0.5557	0.5558	-89.0
0.45	0.0554	2.1302	2.1309	88.5	0.0122	-0.4691	0.4693	-88.5
0.50	0.1002	2.5171	2.5191	87.7	0.0158	-0.3967	0.3970	-87.7
0.55	0.1796	2.9808	2.9862	86.6	0.0201	-0.3343	0.3349	-86.6
0.60	0.3233	3.5508	3.5655	84.8	0.0254	-0.2793	0.2805	-84.8
0.65	0.5915	4.2657	4.3065	82.1	0.0319	-0.2300	0.2322	-82.1
0.70	1.1096	5.1599	5.2778	77.9	0.0398	-0.1852	0.1895	-77.9
0.75	2.1229	6.1870	6.5411	71.1	0.0496	-0.1446	0.1529	-71.1
0.80	3.9245	6.9779	8.0058	60.6	0.0612	-0.1089	0.1249	-60.6
0.85	6.1922	6.9139	9.2815	48.2	0.0719	-0.0803	0.1077	-48.2
0.90	8.8367	6.7136	11.0978	37.2	0.0717	-0.0545	0.0901	-37.2
0.95	14.3746	2.6328	14.6137	10.4	0.0573	-0.0123	0.0684	-10.4
1.00	10.3878	-4.9911	11.5246	-25.7	0.0782	0.0376	0.0868	25.7
1.05	5.8715	-4.9615	7.6871	-40.2	0.0994	0.0840	0.1301	40.2
1.10	3.9193	-3.9515	5.5655	-45.2	0.1265	0.1276	0.1797	45.2
1.15	2.9387	-3.1232	4.2884	-46.7	0.1598	0.1698	0.2332	46.7
1.20	2.3662	-2.4877	3.4333	-46.4	0.2007	0.2110	0.2913	46.4
1.25	1.9967	-1.9871	2.8170	-44.9	0.2516	0.2504	0.3550	44.9
1.30	1.7415	-1.5789	2.3507	-42.2	0.3152	0.2857	0.4254	42.2
1.35	1.5568	-1.2353	1.9874	-38.4	0.3942	0.3128	0.5032	38.4
1.40	1.4186	-0.9383	1.7008	-33.5	0.4904	0.3244	0.5880	33.5
1.45	1.3127	-0.6754	1.4763	-27.2	0.6023	0.3099	0.6774	27.2
1.50	1.2306	-0.4384	1.3064	-19.6	0.7211	0.2569	0.7655	19.6
1.55	1.1668	-0.2213	1.1877	-10.7	0.8272	0.1569	0.8420	10.7
1.60	1.1176	-0.0204	1.1178	-1.0	0.8944	0.0163	0.8946	1.0
1.65	1.0801	0.1665	1.0928	8.8	0.9044	-0.1394	0.9151	-8.8
1.70	1.0504	0.3401	1.1041	17.9	0.8617	-0.2790	0.9057	-17.9
1.75	1.0229	0.5025	1.1397	26.2	0.7875	-0.3869	0.8774	-26.2
1.80	0.9930	0.6603	1.1925	33.6	0.6983	-0.4643	0.8386	-33.6
1.85	0.9641	0.8192	1.2651	40.4	0.6024	-0.5118	0.7904	-40.4
1.90	0.9346	0.9702	1.3471	46.1	0.5150	-0.5346	0.7423	-46.1
1.95	0.8726	1.1333	1.4303	52.4	0.4265	-0.5540	0.6991	-52.4
2.00	0.8268	1.3504	1.5835	58.5	0.3298	-0.5386	0.6315	-58.5
2.05	0.8167	1.5743	1.7735	62.6	0.2596	-0.5005	0.5639	-62.6
2.10	0.8209	1.7994	1.9778	65.5	0.2099	-0.4600	0.5056	-65.5

Set V (L/2A = 200) Table F

F)	SOURCE L/4 OFF CENTER, L/(LAMBDA)	G	B	MAG Y	ANG Y	Y=(-J/600)CUI(KL/4)	MHUS K	AI CENTER X	MAG Z	ANG Z
0.05	0.0000	0.2589	0.2589	90.0	0.0004	-3.8624	3.8624	-90.0	3.8624	-90.0
0.10	0.0005	0.5356	0.5356	89.9	0.0017	-1.8671	1.8671	-89.9	1.8671	-89.9
0.15	0.0032	0.8584	0.8584	89.8	0.0043	-1.1649	1.1649	-89.8	1.1649	-89.8
0.20	0.0155	1.2965	1.2966	89.3	0.0092	-0.7712	0.7713	-89.3	0.7713	-89.3
0.25	0.0891	2.1261	2.1280	87.6	0.0197	-0.4695	0.4699	-87.6	0.4699	-87.6
0.30	3.0089	7.0533	7.6682	66.9	0.0512	-0.1199	0.1304	-66.9	0.1304	-66.9
0.35	0.3700	-0.9866	1.0537	-69.4	0.3332	0.8886	0.9490	69.4	0.9490	69.4
0.40	0.0697	0.4619	0.4671	81.4	0.3194	-2.1169	2.1409	-81.4	2.1409	-81.4
0.45	0.0217	1.0894	1.0896	88.9	0.0183	-0.9176	0.9178	-88.9	0.9178	-88.9
0.50	0.0091	1.5769	1.5769	89.7	0.0037	-0.6341	0.6341	-89.7	0.6341	-89.7
0.55	0.0149	2.0554	2.0555	89.6	0.0035	-0.4865	0.4865	-89.6	0.4865	-89.6
0.60	0.0444	2.5869	2.5873	89.0	0.0066	-0.3865	0.3865	-89.0	0.3865	-89.0
0.65	0.1182	3.2283	3.2305	87.9	0.0113	-0.3093	0.3096	-87.9	0.3096	-87.9
0.70	0.2879	4.0577	4.0679	85.9	0.0174	-0.2452	0.2458	-85.9	0.2458	-85.9
0.75	0.6888	5.1947	5.2401	82.4	0.0251	-0.1892	0.1908	-82.4	0.1908	-82.4
0.80	1.7042	6.7790	6.9899	75.9	0.0349	-0.1387	0.1431	-75.9	0.1431	-75.9
0.85	4.3102	8.5252	9.5529	63.2	0.0472	-0.0934	0.1047	-63.2	0.1047	-63.2
0.90	9.1284	8.4300	12.4255	42.7	0.0591	-0.0546	0.0805	-42.7	0.0805	-42.7
0.95	14.8862	2.9251	15.1709	11.1	0.0647	-0.0127	0.0659	-11.1	0.0659	-11.1
1.00	10.3878	-4.9911	11.5246	-25.7	0.0782	0.0376	0.0868	25.7	0.0868	25.7
1.05	5.6604	-4.8821	7.4749	-40.8	0.1013	0.0874	0.1338	40.8	0.1338	40.8
1.10	3.6584	-3.7784	5.2593	-45.9	0.1323	0.1366	0.1901	45.9	0.1901	45.9
1.15	2.6829	-2.8834	3.9385	-47.1	0.1730	0.1859	0.2539	47.1	0.2539	47.1
1.20	2.1322	-2.1997	3.0635	-45.9	0.2272	0.2344	0.3264	45.9	0.3264	45.9
1.25	1.7888	-1.6593	2.4399	-42.8	0.3005	0.2787	0.4099	42.8	0.4099	42.8
1.30	1.5615	-1.2117	1.9765	-37.8	0.3997	0.3102	0.5059	37.8	0.5059	37.8
1.35	1.4080	-0.8228	1.6308	-30.3	0.5294	0.3094	0.6132	30.3	0.6132	30.3
1.40	1.3104	-0.4675	1.3913	-19.6	0.6770	0.2415	0.7188	19.6	0.7188	19.6
1.45	1.2693	-0.1262	1.2756	-5.7	0.7801	0.0775	0.7840	5.7	0.7840	5.7
1.50	1.3123	0.2108	1.3292	9.1	0.7428	-0.1193	0.7523	-9.1	0.7523	-9.1
1.55	1.5110	0.4971	1.5906	18.2	0.5972	-0.1965	0.6287	-18.2	0.6287	-18.2
1.60	1.8438	0.4904	1.9079	14.9	0.5065	-0.1347	0.5241	-14.9	0.5241	-14.9
1.65	1.8192	0.1910	1.8292	6.0	0.5437	-0.0571	0.5467	-6.0	0.5467	-6.0
1.70	1.5112	0.1670	1.5204	6.3	0.6537	-0.0722	0.6577	-6.3	0.6577	-6.3
1.75	1.2884	0.3441	1.3335	15.0	0.7245	-0.1935	0.7499	-15.0	0.7499	-15.0
1.80	1.1627	0.5648	1.2927	25.9	0.6958	-0.3380	0.7736	-25.9	0.7736	-25.9
1.85	1.0949	0.7843	1.3468	35.6	0.6036	-0.4324	0.7425	-35.6	0.7425	-35.6
1.90	1.0529	0.9867	1.4430	43.1	0.5057	-0.4739	0.6930	-43.1	0.6930	-43.1
1.95	0.9923	1.2004	1.5574	50.4	0.4091	-0.4949	0.6421	-50.4	0.6421	-50.4
2.00	0.8268	1.3504	1.5835	58.5	0.3298	-0.5386	0.6315	-58.5	0.6315	-58.5
2.05	0.9906	1.7866	2.0428	61.0	0.2374	-0.4281	0.4895	-61.0	0.4895	-61.0
2.10	1.0901	2.1432	2.4045	63.0	0.1885	-0.3707	0.4159	-63.0	0.4159	-63.0

G)	SOURCE $L/4$ OFF CENTER, $L/(\lambda BDA)$	C	B	MAG Y	ANG Y	$Y = (-J/300) \cot(KL/4)$	R	AT CENTER X	MAG Z	ANG Z
0.05	0.0000	0.2584	0.0000	90.0	0.0004	-3.8701	3.8701	-90.0	3.8701	-90.0
0.10	0.0005	0.5307	0.0017	89.9	0.0017	-1.8842	1.8842	-89.9	1.8842	-89.9
0.15	0.0028	0.8364	0.0041	89.8	0.0041	-1.1956	1.1956	-89.8	1.1956	-89.8
0.20	0.0120	1.2115	0.0082	89.4	0.0082	-0.8253	0.8253	-89.4	0.8253	-89.4
0.25	0.0466	1.7453	0.0153	88.5	0.0153	-0.5726	0.5726	-88.5	0.5726	-88.5
0.30	0.2239	2.7627	0.0291	85.4	0.0291	-0.3596	0.3596	-85.4	0.3596	-85.4
0.35	3.2594	6.4228	0.0628	63.1	0.0628	-0.1238	0.1238	-63.1	0.1238	-63.1
0.40	1.5993	-2.3294	0.2003	-55.5	0.2003	0.2918	0.2918	55.5	0.2918	55.5
0.45	0.3152	-0.0890	2.9384	-15.8	2.9384	0.8299	0.8299	15.8	0.8299	15.8
0.50	0.1268	0.7897	0.1983	80.9	0.1983	-1.2345	1.2345	-80.9	1.2345	-80.9
0.55	0.0636	1.4047	0.0322	87.4	0.0322	-0.7104	0.7104	-87.4	0.7104	-87.4
0.60	0.0422	1.9757	0.0108	88.8	0.0108	-0.5059	0.5059	-88.8	0.5059	-88.8
0.65	0.0542	2.5994	0.0080	88.8	0.0080	-0.3845	0.3845	-88.8	0.3845	-88.8
0.70	0.1210	3.3631	0.0107	87.9	0.0107	-0.2970	0.2970	-87.9	0.2970	-87.9
0.75	0.3133	4.3939	0.0161	85.9	0.0161	-0.2264	0.2264	-85.9	0.2264	-85.9
0.80	0.8572	5.9179	0.0240	81.8	0.0240	-0.1655	0.1655	-81.8	0.1655	-81.8
0.85	2.5838	8.2483	0.0346	72.6	0.0346	-0.1104	0.1104	-72.6	0.1104	-72.6
0.90	8.1166	10.0588	0.0486	51.1	0.0486	-0.0602	0.0602	-51.1	0.0602	-51.1
0.95	15.4043	3.4204	0.0619	12.5	0.0619	-0.0137	0.0137	-12.5	0.0137	-12.5
1.00	10.3878	-4.9911	0.0782	-25.7	0.0782	0.0376	0.0376	25.7	0.0376	25.7
1.05	5.4849	-4.8018	0.1032	-41.2	0.1032	0.0904	0.0904	41.2	0.0904	41.2
1.10	3.4676	-3.6273	0.1377	-46.3	0.1377	0.1440	0.1440	46.3	0.1377	46.3
1.15	2.5105	-2.6916	0.1853	-47.0	0.1853	0.1987	0.1987	47.0	0.1853	47.0
1.20	1.9823	-1.9804	0.2525	-45.0	0.2525	0.2522	0.2522	45.0	0.2525	45.0
1.25	1.6605	-1.4140	0.3491	-40.4	0.3491	0.2973	0.2973	40.4	0.3491	40.4
1.30	1.4553	-0.9343	0.4866	-32.7	0.4866	0.3124	0.3124	32.7	0.4866	32.7
1.35	1.3302	-0.4993	0.6589	-20.6	0.6589	0.2473	0.2473	20.6	0.6589	20.6
1.40	1.2826	-0.0737	0.7771	-3.3	0.7771	0.0446	0.0446	3.3	0.7771	3.3
1.45	1.3572	0.3707	0.6856	15.3	0.6856	-0.1873	0.1873	-15.3	0.6856	-15.3
1.50	1.7023	0.7842	0.4846	24.7	0.4846	-0.2232	0.2232	-24.7	0.4846	-24.7
1.55	2.3801	0.6844	0.3881	16.0	0.3881	-0.1116	0.1116	-16.0	0.3881	-16.0
1.60	2.3462	-0.0333	0.4261	-0.8	0.4261	0.0060	0.0060	0.8	0.4261	0.8
1.65	1.8001	-0.1601	0.5512	-5.1	0.5512	0.0490	0.0490	5.1	0.5512	5.1
1.70	1.4520	0.0432	0.6881	1.7	0.6881	-0.0205	0.0205	-1.7	0.6881	-1.7
1.75	1.2634	0.2959	0.7504	13.2	0.7504	-0.1757	0.1757	-13.2	0.7504	-13.2
1.80	1.1574	0.5419	0.7087	25.1	0.7087	-0.3318	0.3318	-25.1	0.7087	-25.1
1.85	1.0979	0.7727	0.6091	35.1	0.6091	-0.4287	0.4287	-35.1	0.6091	-35.1
1.90	1.0586	0.9817	0.5079	42.8	0.5079	-0.4710	0.4710	-42.8	0.5079	-42.8
1.95	0.9972	1.1994	0.4099	50.3	0.4099	-0.4930	0.4930	-50.3	0.4099	-50.3
2.00	0.8268	1.3504	0.3298	58.5	0.3298	-0.5386	0.5386	-58.5	0.3298	-58.5
2.05	0.9770	1.7816	0.2366	61.3	0.2366	-0.4315	0.4315	-61.3	0.2366	-61.3
2.10	1.0368	2.1204	0.1861	63.9	0.1861	-0.3806	0.3806	-63.9	0.1861	-63.9

Set V ($L/2A = 200$) Table H

H)	SOURCE $L/4$ OFF CENTER, $L/(\lambda BDA)$	G	B	MAG Y	ANG Y	$Y = (-J/100) \cos(KL/4)$	IR	MHUS	AT CENTER	X	MAG γ	ANG γ
	0.05	0.0000	0.2581	0.2581	90.0	0.0004	0.0004	-3.8752		-3.8752	3.8752	-90.0
	0.10	0.0005	0.5277	0.5277	90.0	0.0016	0.0016	-1.8951		-1.8951	1.8951	-90.0
	0.15	0.0027	0.8236	0.8236	89.8	0.0039	0.0039	-1.2142		-1.2142	1.2142	-89.8
	0.20	0.0104	1.1691	1.1692	89.5	0.0076	0.0076	-0.8553		-0.8553	0.8553	-89.5
	0.25	0.0348	1.6092	1.6095	88.8	0.0134	0.0134	-0.6212		-0.6212	0.6212	-88.8
	0.30	0.1162	2.2490	2.2520	87.0	0.0229	0.0229	-0.4435		-0.4435	0.4440	-87.0
	0.35	0.4684	3.4085	3.4406	82.2	0.0396	0.0396	-0.2879		-0.2879	0.2907	-82.2
	0.40	3.4023	5.9100	6.8194	60.1	0.0732	0.0732	-0.1271		-0.1271	0.1466	-60.1
	0.45	4.9957	-2.5158	5.5935	-26.7	0.1597	0.1597	0.0804		0.0804	0.1788	26.7
	0.50	1.1972	-0.9506	1.5287	-38.5	0.5123	0.5123	0.4068		0.4068	0.6542	38.5
	0.55	0.5485	0.2003	0.5839	20.1	1.6086	1.6086	-0.5875		-0.5875	1.7126	-20.1
	0.60	0.3341	0.9686	1.0246	71.0	0.3183	0.3183	-0.9226		-0.9226	0.9760	-71.0
	0.65	0.2442	1.6386	1.6567	81.5	0.0890	0.0890	-0.5970		-0.5970	0.6036	-81.5
	0.70	0.2222	2.3460	2.3565	84.6	0.0400	0.0400	-0.4225		-0.4225	0.4244	-84.6
	0.75	0.2813	3.2111	3.2234	85.0	0.0271	0.0271	-0.3091		-0.3091	0.3102	-85.0
	0.80	0.5188	4.4163	4.4467	83.3	0.0262	0.0262	-0.2234		-0.2234	0.2249	-83.3
	0.85	1.3131	6.3159	6.4510	78.3	0.0310	0.0310	-0.1518		-0.1518	0.1550	-78.3
	0.90	4.3934	9.3434	10.3248	64.8	0.0412	0.0412	-0.0876		-0.0876	0.0969	-64.8
	0.95	15.1546	7.0456	16.7123	24.9	0.0543	0.0543	-0.0252		-0.0252	0.0598	-24.9
	1.00	10.3878	-4.9911	11.5246	-25.7	0.0782	0.0782	0.0376		0.0376	0.0868	25.7
	1.05	5.0153	-4.5130	6.7469	-42.0	0.1102	0.1102	0.0991		0.0991	0.1482	42.0
	1.10	3.0531	-3.2027	4.4248	-46.4	0.1559	0.1559	0.1636		0.1636	0.2260	46.4
	1.15	2.1753	-2.2170	3.1059	-45.5	0.2255	0.2255	0.2298		0.2298	0.3220	45.5
	1.20	1.7106	-1.4705	2.2558	-40.7	0.3362	0.3362	0.2890		0.2890	0.4433	40.7
	1.25	1.4426	-0.8562	1.6775	-30.7	0.5126	0.5126	0.3042		0.3042	0.5961	30.7
	1.30	1.2965	-0.2963	1.3300	-12.9	0.7330	0.7330	0.1675		0.1675	0.7519	12.9
	1.35	1.2701	0.2765	1.2998	12.3	0.7517	0.7517	-0.1636		-0.1636	0.7693	-12.3
	1.40	1.4646	0.9259	1.7327	32.3	0.4878	0.4878	-0.3084		-0.3084	0.5771	-32.3
	1.45	2.2500	1.5316	2.7219	34.2	0.3037	0.3037	-0.2067		-0.2067	0.3674	-34.2
	1.50	3.5886	0.8155	3.6801	12.8	0.2650	0.2650	-0.0602		-0.0602	0.2717	-12.8
	1.55	3.0245	-0.5650	3.0768	-10.6	0.3195	0.3195	0.0597		0.0597	0.3250	10.6
	1.60	2.1071	-0.6154	2.1952	-16.3	0.4373	0.4373	0.1277		0.1277	0.4555	16.3
	1.65	1.6311	-0.3206	1.6623	-11.1	0.5903	0.5903	0.1160		0.1160	0.6016	11.1
	1.70	1.3814	-0.0124	1.3814	-0.5	0.7239	0.7239	0.0065		0.0065	0.7239	0.5
	1.75	1.2376	0.2692	1.2665	12.3	0.7715	0.7715	-0.1678		-0.1678	0.7896	-12.3
	1.80	1.1506	0.5267	1.2654	24.6	0.7185	0.7185	-0.3289		-0.3289	0.7902	-24.6
	1.85	1.0991	0.7642	1.3386	34.8	0.6134	0.6134	-0.4265		-0.4265	0.7470	-34.8
	1.90	1.0624	0.9779	1.4439	42.6	0.5096	0.5096	-0.4690		-0.4690	0.6925	-42.6
	1.95	1.0005	1.1986	1.5613	50.1	0.4104	0.4104	-0.4917		-0.4917	0.6405	-50.1
	2.00	0.8268	1.3504	1.5835	58.5	0.3298	0.3298	-0.5386		-0.5386	0.6315	-58.5
	2.05	0.4688	1.7782	2.0250	61.4	0.2363	0.2363	-0.4337		-0.4337	0.4938	-61.4
	2.10	1.0092	2.1047	2.3341	64.4	0.1852	0.1852	-0.3863		-0.3863	0.4284	-64.4

1) SOURCE $L/4$ OFF CENTER, GROUND PLANE AT CENTER $L/(\lambda \text{BDA})$	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0001	0.3334	0.3334	90.0	0.0005	-2.9998	2.9998	-90.0
0.10	0.0009	0.6855	0.6855	89.9	0.0019	-1.4587	1.4587	-89.9
0.15	0.0052	1.0799	1.0799	89.7	0.0044	-0.9260	0.9260	-89.7
0.20	0.0195	1.5516	1.5517	89.3	0.0081	-0.6444	0.6445	-89.3
0.25	0.0615	2.1620	2.1629	88.4	0.0131	-0.4622	0.4623	-88.4
0.30	0.1840	3.0352	3.0408	86.5	0.0199	-0.3283	0.3289	-86.5
0.35	0.5833	4.4614	4.4993	82.6	0.0288	-0.2204	0.2223	-82.6
0.40	2.2910	7.1525	7.5104	72.2	0.0406	-0.1268	0.1331	-72.2
0.45	11.7226	8.3921	14.4169	35.6	0.0564	-0.0404	0.0694	-35.6
0.50	9.7187	-5.4990	11.1666	-29.5	0.0779	0.0441	0.0896	29.5
0.55	3.7453	-4.5372	5.8833	-50.5	0.1082	0.1311	0.1700	50.5
0.60	2.0638	-3.0466	3.6798	-55.9	0.1524	0.2250	0.2718	55.9
0.65	1.3968	-2.0952	2.5182	-56.5	0.2203	0.3304	0.3971	56.3
0.70	1.0586	-1.4408	1.7879	-53.7	0.3312	0.4507	0.5593	53.7
0.75	0.8587	-0.9475	1.2787	-47.8	0.5252	0.5795	0.7821	47.8
0.80	0.7277	-0.5461	0.9098	-36.9	0.8791	0.6598	1.0992	36.9
0.85	0.6353	-0.1987	0.6057	-17.4	1.4338	0.4484	1.5023	17.4
0.90	0.5669	0.1185	0.5791	11.8	1.6902	-0.3533	1.7268	-11.8
0.95	0.5145	0.4220	0.6654	39.4	1.1620	-0.9530	1.5028	-39.4
1.00	0.4743	0.7255	0.8668	56.6	0.6313	-0.9657	1.1537	-56.8
1.05	0.4449	1.0428	1.1337	66.9	0.3461	-0.8113	0.8821	-66.9
1.10	0.4278	1.3900	1.4544	72.9	0.2023	-0.6572	0.6876	-72.9
1.15	0.4292	1.7899	1.8406	76.5	0.1267	-0.5283	0.5433	-76.5
1.20	0.4651	2.2780	2.3250	78.5	0.0860	-0.4214	0.4301	-78.5
1.25	0.5774	2.9155	2.9721	78.8	0.0654	-0.3301	0.3365	-78.8
1.30	0.8875	3.8108	3.9128	76.9	0.0580	-0.2489	0.2556	-76.9
1.35	1.7988	5.1116	5.4189	70.6	0.0613	-0.1741	0.1845	-70.6
1.40	4.6353	6.3390	7.8530	53.8	0.0752	-0.1028	0.1273	-53.8
1.45	8.8698	2.9248	9.3396	18.2	0.1017	-0.0335	0.1071	-18.2
1.50	6.5508	-1.5077	6.7221	-13.0	0.1450	0.0334	0.1488	13.0
1.55	3.9518	-1.7550	4.3240	-23.9	0.2114	0.0939	0.2313	23.9
1.60	2.7150	-1.2045	2.9702	-23.9	0.3078	0.1365	0.3367	23.9
1.65	2.0919	-0.6653	2.1951	-17.6	0.4341	0.1381	0.4556	17.6
1.70	1.7407	-0.2102	1.7533	-6.9	0.5662	0.0684	0.5703	6.9
1.75	1.5256	0.1793	1.5361	6.7	0.6465	-0.0760	0.6510	-6.7
1.80	1.3872	0.5266	1.4837	20.8	0.6301	-0.2392	0.6740	-20.8
1.85	1.2967	0.8502	1.5506	33.2	0.5393	-0.3536	0.6449	-33.2
1.90	1.2402	1.1649	1.7015	43.2	0.4284	-0.4024	0.5877	-43.2
1.95	1.2110	1.4840	1.9154	50.8	0.3301	-0.4045	0.5221	-50.8
2.00	1.2083	1.8210	2.1854	56.4	0.2530	-0.3813	0.4576	-56.4
2.05	1.2365	2.1918	2.5165	60.6	0.1952	-0.3461	0.3974	-60.6
2.10	1.3078	2.6174	2.9259	63.5	0.1528	-0.3057	0.3418	-63.5

J) MUTUAL ADMITTANCES OR IMPEDANCES, SOURCE L/4 OFF CENTER,

Y=0 AT CENTER, OUTPUT POINT L/4 FROM CENTER

L/($\lambda/4$)	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0000	0.0088	0.0088	90.0	0.0584	-113.8813	113.8813	-90.0
0.10	0.0001	0.0182	0.0182	89.8	0.2212	-54.9777	54.9777	-89.8
0.15	0.0004	0.0289	0.0289	89.2	0.4560	-34.6069	34.6069	-89.2
0.20	0.0013	0.0416	0.0417	88.3	0.7205	-23.9894	24.0002	-88.3
0.25	0.0032	0.0574	0.0575	86.8	0.9742	-17.3767	17.4039	-86.8
0.30	0.0071	0.0772	0.0775	84.7	1.1854	-12.8444	12.8990	-84.7
0.35	0.0143	0.1026	0.1036	82.1	1.3347	-9.5572	9.6500	-82.1
0.40	0.0271	0.1357	0.1383	78.7	1.4135	-7.0885	7.2281	-78.7
0.45	0.0490	0.1791	0.1857	74.7	1.4221	-5.1947	5.3858	-74.7
0.50	0.0868	0.2366	0.2520	69.8	1.3670	-3.7253	3.9682	-69.8
0.55	0.1525	0.3130	0.3481	64.0	1.2581	-2.5824	2.8725	-64.0
0.60	0.2693	0.4131	0.4931	56.9	1.1074	-1.6987	2.0278	-56.9
0.65	0.4845	0.5361	0.7226	47.9	0.9279	-1.0268	1.3839	-47.9
0.70	0.8945	0.6493	1.1053	36.0	0.7322	-0.5314	0.9047	-36.0
0.75	1.6734	0.5845	1.7725	19.3	0.5326	-0.1860	0.5642	-19.3
0.80	2.9131	-0.2624	2.9249	-5.1	0.3405	0.0307	0.3419	5.1
0.85	3.6041	-2.9521	4.6588	-39.3	0.1661	0.1360	0.2146	39.3
0.90	0.8468	-6.8081	6.8606	-82.9	0.0180	0.1446	0.1458	82.9
0.95	-6.8349	-4.9092	8.4153	35.7	-0.0965	0.0693	0.1188	-35.7
1.00	-4.8093	2.1954	5.2867	-24.5	-0.1721	-0.0785	0.1892	24.5
1.05	-1.6366	2.3010	2.8236	-54.6	-0.2053	-0.2886	0.3542	54.6
1.10	-0.5703	1.6133	1.7111	-70.5	-0.1948	-0.5510	0.5844	70.5
1.15	-0.1879	1.1369	1.1523	-80.6	-0.1415	-0.8562	0.8678	80.6
1.20	-0.0338	0.8359	0.8366	-87.7	-0.0483	-1.1944	1.1954	87.7
1.25	0.0330	0.6413	0.6421	87.1	0.0800	-1.5553	1.5573	-87.1
1.30	0.0629	0.5111	0.5149	83.0	0.2373	-1.9275	1.9421	-83.0
1.35	0.0765	0.4211	0.4280	79.7	0.4175	-2.2987	2.3363	-79.7
1.40	0.0827	0.3574	0.3668	77.0	0.6148	-2.6558	2.7260	-77.0
1.45	0.0861	0.3112	0.3229	74.5	0.8258	-2.9851	3.0972	-74.5
1.50	0.0888	0.2769	0.2908	72.2	1.0505	-3.2746	3.4390	-72.2
1.55	0.0922	0.2505	0.2670	69.8	1.2938	-3.5152	3.7457	-69.8
1.60	0.0968	0.2289	0.2486	67.1	1.5671	-3.7055	4.0232	-67.1
1.65	0.1023	0.2090	0.2327	63.9	1.8899	-3.8604	4.2982	-63.9
1.70	0.1063	0.1878	0.2158	60.5	2.2830	-4.0328	4.6342	-60.5
1.75	0.1033	0.1651	0.1948	58.0	2.7224	-4.3522	5.1335	-58.0
1.80	0.0877	0.1481	0.1721	59.4	2.9592	-5.0002	5.8162	-59.4
1.85	0.0623	0.1500	0.1624	67.5	2.3612	-5.6870	6.1577	-67.5
1.90	0.0461	0.1836	0.1893	75.9	1.2872	-5.1245	5.2837	-75.9
1.95	0.0791	0.2210	0.2347	70.3	1.4349	-4.0110	4.2599	-70.3
2.00	0.1119	0.2152	0.2426	62.5	1.9016	-3.6569	4.1218	-62.5
2.05	0.1234	0.2132	0.2463	59.9	2.0338	-3.5134	4.0557	-59.9
2.10	0.1343	0.2229	0.2602	58.9	1.9825	-3.2916	3.8425	-58.9

Set V ($L/2A = 200$) Table K.

V	MONOSTATIC AND BISTATIC ECHO AREAS/($LAMBDA$ SQUARED)	S(A)	S(B)	S(C)	S(D)	S(E)	S(F)	S(G)
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.15	0.00003	0.00002	0.00002	0.00001	0.00001	0.00001	0.00000	0.00002
0.20	0.00018	0.00017	0.00013	0.00009	0.00004	0.00004	0.00005	0.00015
0.25	0.00089	0.00082	0.00064	0.00042	0.00020	0.00020	0.00005	0.00076
0.30	0.00387	0.00357	0.00277	0.00176	0.00084	0.00084	0.00022	0.00327
0.35	0.01697	0.01557	0.01195	0.00748	0.00351	0.00351	0.00090	0.01420
0.40	0.08854	0.08084	0.06123	0.03760	0.01730	0.01730	0.00436	0.07342
0.45	0.58434	0.53061	0.39586	0.23802	0.10716	0.10716	0.02657	0.48072
0.50	0.61049	0.55108	0.40441	0.23760	0.10445	0.10445	0.02543	0.49939
0.55	0.29097	0.26099	0.18818	0.10785	0.04620	0.04620	0.01103	0.23763
0.60	0.19523	0.17396	0.12313	0.06874	0.02865	0.02865	0.00670	0.16024
0.65	0.15880	0.14053	0.09759	0.05302	0.02147	0.02147	0.00491	0.13238
0.70	0.14297	0.12566	0.08560	0.04524	0.01780	0.01780	0.00398	0.12312
0.75	0.13633	0.11902	0.07957	0.04094	0.01566	0.01566	0.00343	0.12468
0.80	0.13447	0.11667	0.07664	0.03845	0.01432	0.01432	0.00307	0.13679
0.85	0.13535	0.11678	0.07554	0.03708	0.01349	0.01349	0.00284	0.16566
0.90	0.13779	0.11837	0.07667	0.03653	0.01307	0.01307	0.00272	0.22531
0.95	0.14098	0.12083	0.07674	0.03673	0.01302	0.01302	0.00269	0.23246
1.00	0.14425	0.12369	0.07868	0.03775	0.01343	0.01343	0.00278	0.05612
1.05	0.14689	0.12656	0.08159	0.03988	0.01446	0.01446	0.00304	0.01325
1.10	0.14806	0.12904	0.08578	0.04366	0.01644	0.01644	0.00354	0.01157
1.15	0.14668	0.13064	0.09190	0.05015	0.02004	0.02004	0.00448	0.01444
1.20	0.14127	0.13071	0.10119	0.06150	0.02668	0.02668	0.00624	0.01676
1.25	0.13021	0.12838	0.11618	0.08262	0.03969	0.03969	0.00976	0.01785
1.30	0.11378	0.12286	0.14241	0.12600	0.06800	0.06800	0.01753	0.01774
1.35	0.10912	0.11663	0.19247	0.22828	0.13917	0.13917	0.03736	0.01705
1.40	0.24674	0.14096	0.28082	0.48741	0.33399	0.33399	0.09240	0.02057
1.45	0.84214	0.29699	0.26889	0.75489	0.57309	0.57309	0.16147	0.04306
1.50	1.05432	0.37897	0.09061	0.45959	0.37848	0.37848	0.10736	0.05478
1.55	0.92437	0.35672	0.02309	0.23761	0.20723	0.20723	0.05859	0.05208
1.60	0.82974	0.33573	0.00635	0.14614	0.13187	0.13187	0.03686	0.05074
1.65	0.78004	0.32412	0.00205	0.10491	0.09597	0.09597	0.02638	0.05279
1.70	0.75672	0.31853	0.00097	0.08406	0.07675	0.07675	0.02067	0.05946
1.75	0.74868	0.31653	0.00074	0.07278	0.06561	0.06561	0.01729	0.07422
1.80	0.74979	0.31676	0.00066	0.06658	0.05893	0.05893	0.01521	0.10632
1.85	0.75644	0.31846	0.00066	0.06343	0.05508	0.05508	0.01398	0.18084
1.90	0.76621	0.32123	0.00062	0.06232	0.05330	0.05330	0.01338	0.33618
1.95	0.77722	0.32491	0.00059	0.06277	0.05333	0.05333	0.01334	0.39465
2.00	0.78779	0.32950	0.00061	0.06463	0.05532	0.05532	0.01394	0.23977
2.05	0.79607	0.33521	0.00073	0.06801	0.05978	0.05978	0.01536	0.14146
2.10	0.79985	0.34246	0.00110	0.07358	0.06789	0.06789	0.01802	0.09847

Set V (L/2A=200) Table K (contd.)

L/(LAMBDA)	S(11)	S(12)	S(13)	S(14)	S(15)	S(16)	S(17)
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.15	0.00002	0.00002	0.00001	0.00001	0.00000	0.00000	0.00001
0.20	0.00013	0.00012	0.00009	0.00006	0.00003	0.00001	0.00004
0.25	0.00064	0.00059	0.00046	0.00029	0.00014	0.00004	0.00019
0.30	0.00277	0.00253	0.00194	0.00122	0.00058	0.00015	0.00077
0.35	0.01195	0.01084	0.00823	0.00510	0.00237	0.00060	0.00314
0.40	0.06123	0.05523	0.04150	0.02527	0.01155	0.00290	0.01533
0.45	0.39586	0.35736	0.26587	0.15928	0.07151	0.01769	0.09528
0.50	0.40441	0.36785	0.27190	0.16758	0.07104	0.01736	0.09533
0.55	0.18818	0.17378	0.12875	0.07558	0.03301	0.00798	0.04480
0.60	0.12313	0.11702	0.08790	0.05169	0.02245	0.00539	0.03100
0.65	0.09759	0.09744	0.07544	0.04501	0.01963	0.00471	0.02776
0.70	0.08560	0.09267	0.07571	0.04663	0.02063	0.00498	0.03008
0.75	0.07957	0.09810	0.08733	0.05659	0.02573	0.00628	0.03891
0.80	0.07664	0.11641	0.11781	0.08211	0.03874	0.00960	0.06102
0.85	0.07554	0.16080	0.19527	0.14929	0.07354	0.01854	0.12089
0.90	0.07567	0.27135	0.42229	0.35906	0.18474	0.04727	0.31693
0.95	0.07674	0.39595	0.85157	0.80923	0.43263	0.11181	0.77393
1.00	0.07868	0.15627	0.50368	0.53215	0.29312	0.07611	0.54679
1.05	0.08159	0.04255	0.22293	0.25862	0.14544	0.03776	0.28349
1.10	0.08578	0.01404	0.12908	0.16195	0.09232	0.02389	0.18897
1.15	0.09190	0.00541	0.09357	0.12540	0.07222	0.01862	0.15652
1.20	0.10119	0.00233	0.08011	0.11410	0.06648	0.01711	0.15430
1.25	0.11618	0.00124	0.07857	0.11956	0.07096	0.01833	0.17888
1.30	0.14241	0.00138	0.08772	0.14523	0.08885	0.02318	0.24721
1.35	0.19247	0.00403	0.11277	0.21016	0.13469	0.03578	0.42050
1.40	0.28082	0.01636	0.16110	0.35622	0.24358	0.06631	0.86667
1.45	0.26889	0.04465	0.15391	0.43502	0.32287	0.05039	1.32703
1.50	0.09061	0.04327	0.05234	0.20879	0.17014	0.04893	0.81749
1.55	0.02309	0.03245	0.01355	0.08604	0.07711	0.02264	0.43864
1.60	0.00635	0.02670	0.00379	0.04316	0.04210	0.01250	0.28873
1.65	0.00205	0.02392	0.00124	0.02609	0.02714	0.00805	0.23087
1.70	0.00097	0.02256	0.00060	0.01824	0.01971	0.00579	0.21759
1.75	0.00074	0.02190	0.00046	0.01428	0.01563	0.00451	0.23915
1.80	0.00069	0.02176	0.00043	0.01240	0.01350	0.00382	0.30924
1.85	0.00066	0.02289	0.00043	0.01269	0.01377	0.00387	0.47694
1.90	0.00062	0.02932	0.00047	0.01847	0.02049	0.00584	0.79714
1.95	0.00059	0.04154	0.00057	0.02922	0.03295	0.00947	0.83096
2.00	0.00061	0.04273	0.00059	0.02987	0.03373	0.00969	0.44520
2.05	0.00073	0.04013	0.00067	0.02797	0.03215	0.00933	0.23330
2.10	0.00110	0.03578	0.00095	0.02798	0.03381	0.01006	0.14760

Set V ($L/2A=200$) Table K (contd.)

$L/(\lambda BDA)$	$S(O)$	$S(P)$	$S(W)$	$S(R)$	$S(S)$	$S(T)$	$S(U)$
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.15	0.00001	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000
0.20	0.00004	0.00004	0.00003	0.00002	0.00001	0.00000	0.00000
0.25	0.00020	0.00018	0.00014	0.00009	0.00004	0.00001	0.00000
0.30	0.00084	0.00076	0.00058	0.00036	0.00017	0.00004	0.00001
0.35	0.00351	0.00315	0.00237	0.00146	0.00067	0.00017	0.00004
0.40	0.01730	0.01551	0.01155	0.00699	0.00318	0.00079	0.00020
0.45	0.10716	0.09655	0.07151	0.04272	0.01914	0.00473	0.00117
0.50	0.10445	0.09558	0.07104	0.04221	0.01872	0.00459	0.00112
0.55	0.04620	0.04365	0.03301	0.01971	0.00872	0.00213	0.00052
0.60	0.02865	0.02864	0.02245	0.01367	0.00610	0.00149	0.00036
0.65	0.02147	0.02354	0.01963	0.01240	0.00563	0.00138	0.00034
0.70	0.01780	0.02256	0.02063	0.01375	0.00642	0.00160	0.00040
0.75	0.01566	0.02477	0.02573	0.01836	0.00886	0.00223	0.00057
0.80	0.01432	0.03173	0.03874	0.02986	0.01488	0.00379	0.00097
0.85	0.01349	0.04972	0.07354	0.06127	0.03144	0.00808	0.00208
0.90	0.01307	0.10098	0.18474	0.16557	0.08696	0.02243	0.00579
0.95	0.01302	0.18896	0.43263	0.41405	0.22138	0.05717	0.01476
1.00	0.01343	0.10163	0.29312	0.29787	0.16168	0.04175	0.01078
1.05	0.01446	0.03961	0.14544	0.15677	0.08645	0.02235	0.00579
1.10	0.01644	0.01925	0.09232	0.10614	0.05971	0.01550	0.00404
1.15	0.02004	0.01091	0.07222	0.08967	0.05183	0.01355	0.00356
1.20	0.02668	0.00660	0.06648	0.09085	0.05437	0.01438	0.00383
1.25	0.03969	0.00409	0.07096	0.10923	0.06819	0.01827	0.00493
1.30	0.06800	0.00332	0.08885	0.15798	0.10335	0.02808	0.00767
1.35	0.13917	0.00786	0.13469	0.28311	0.19431	0.05346	0.01475
1.40	0.33399	0.03573	0.24358	0.61641	0.44290	0.12308	0.03423
1.45	0.57309	0.10702	0.32287	0.99540	0.74585	0.20882	0.05842
1.50	0.37848	0.10892	0.17014	0.64350	0.50104	0.14110	0.03970
1.55	0.20723	0.08496	0.07711	0.36018	0.29101	0.08243	0.02336
1.60	0.13187	0.07438	0.04210	0.24619	0.20679	0.05901	0.01688
1.65	0.09597	0.07463	0.02714	0.20421	0.17926	0.05168	0.01498
1.70	0.07675	0.08531	0.01971	0.20037	0.18529	0.05415	0.01593
1.75	0.06561	0.11192	0.01563	0.23116	0.22727	0.06750	0.02019
1.80	0.05893	0.17200	0.01350	0.31754	0.33468	0.10117	0.03076
1.85	0.05508	0.31555	0.01377	0.52743	0.59935	0.18433	0.05689
1.90	0.05330	0.62695	0.02049	0.96128	1.18026	0.36872	0.11527
1.95	0.05332	0.77103	0.03295	1.10188	1.46008	0.46233	0.14620
2.00	0.05532	0.47876	0.03373	0.65046	0.92759	0.29718	0.09503
2.05	0.05978	0.28271	0.03215	0.37389	0.57258	0.18549	0.06004
2.10	0.06789	0.19443	0.03381	0.25719	0.42325	0.13878	0.04558

VI

Set V ($L/2A=200$) Table M

VIII PRIMED ADMITTANCE PARAMETERS (MILLIMHGS) FOR CENTER LOADED SCATTERER, NORMAL INCIDENCE			
$L/(LAMUDA)$	RE DY11	IM DY11	RE Y12
0.05	0.00000	0.00006	0.00000
0.10	0.00000	0.00053	0.00372
0.15	0.00001	0.00192	0.01543
0.20	0.00038	0.00499	0.03704
0.25	0.00038	0.01114	0.07250
0.30	0.00165	0.02324	0.13014
0.35	0.00715	0.04824	0.22738
0.40	0.03679	0.10516	0.40720
0.45	0.23917	0.15722	0.78291
0.50	0.24584	-0.15858	1.04882
0.55	0.11519	-0.16590	1.49337
0.60	0.07534	-0.14698	0.64248
0.65	0.06069	-0.13631	0.39245
0.70	0.05370	-0.13099	0.29277
0.75	0.05036	-0.12875	0.24338
0.80	0.04893	-0.12829	0.21505
0.85	0.04861	-0.12889	0.19889
0.90	0.04900	-0.13006	0.18832
0.95	0.04987	-0.13144	0.18150
1.00	0.05110	-0.13271	0.17698
1.05	0.05262	-0.13350	0.17383
1.10	0.05444	-0.13339	0.17120
1.15	0.05668	-0.13172	0.16813
1.20	0.05970	-0.12744	0.16303
1.25	0.06454	-0.11870	0.15266
1.30	0.07438	-0.10207	0.12920
1.35	0.10039	-0.07224	0.07064
1.40	0.18170	-0.03940	-0.09533
1.45	0.31564	-0.13575	-0.60375
1.50	0.26463	-0.27889	-1.35140
1.55	0.19440	-0.30298	-0.92883
1.60	0.16197	-0.30063	-0.46457
1.65	0.14535	-0.29703	-0.24401
1.70	0.13767	-0.29518	-0.17405
1.75	0.13405	-0.29494	-0.13306
1.80	0.13273	-0.29580	-0.09967
1.85	0.13280	-0.29734	-0.02989
1.90	0.13380	-0.29919	-0.00299
1.95	0.13545	-0.30102	0.01632
2.00	0.13766	-0.30250	0.03100
2.05	0.14022	-0.30322	0.04287
2.10	0.14339	-0.30261	0.05331
			0.06307
			0.07575
			0.08889
			0.10062
			0.11882
			0.14805

Set VI ($L/2A = 400$) Table A

INPUT ADMITTANCES (MILLIHMS) AND IMPEDANCES (KILIOHMS)									
A)	SOURCE AT CENTER L/(LAMBDA)	G	B	MAG Y	ANG Y	K	X	MAG Z	ANG Z
	0.05	0.0000	0.2719	0.2719	90.0	0.0004	-3.6785	3.6785	-90.0
	0.10	0.0006	0.5584	0.5584	89.9	0.0018	-1.7908	1.7908	-89.9
	0.15	0.0032	0.8778	0.8778	89.8	0.0041	-1.1392	1.1392	-89.6
	0.20	0.0121	1.2572	1.2573	89.4	0.0077	-0.7953	0.7954	-89.4
	0.25	0.0384	1.7442	1.7446	88.7	0.0126	-0.5731	0.5732	-88.7
	0.30	0.1155	2.4343	2.4371	87.3	0.0194	-0.4099	0.4103	-87.3
	0.35	0.3667	3.5547	3.5735	84.1	0.0287	-0.2784	0.2798	-84.1
	0.40	1.4450	5.7289	5.9083	75.8	0.0414	-0.1641	0.1693	-75.8
	0.45	8.5748	8.4824	12.0615	44.7	0.0589	-0.0583	0.0829	-44.7
	0.50	9.2208	-5.0090	10.4935	-28.5	0.0837	0.0455	0.0953	28.5
	0.55	3.1801	-4.0536	5.1521	-51.9	0.1198	0.1527	0.1941	51.9
	0.60	1.7300	-2.6202	3.1234	-57.0	0.1743	0.2686	0.3202	57.0
	0.65	1.1520	-1.7597	2.1033	-56.8	0.2604	0.3978	0.4754	56.8
	0.70	0.8958	-1.1358	1.4601	-53.2	0.4043	0.5413	0.6756	53.2
	0.75	0.7342	-0.7605	1.0571	-46.0	0.6570	0.6806	0.9460	46.0
	0.80	0.6391	-0.4182	0.7638	-33.2	1.0956	0.7170	1.3093	33.2
	0.85	0.5754	-0.1236	0.5886	-12.1	1.6612	0.3569	1.6991	12.1
	0.90	0.5315	0.1446	0.5508	15.2	1.7518	-0.4767	1.8155	-15.2
	0.95	0.5012	0.4014	0.6421	38.7	1.2156	-0.9734	1.5573	-38.7
	1.00	0.4319	0.6587	0.8162	53.8	0.7234	-0.9883	1.2252	-53.8
	1.05	0.4731	0.9288	1.0424	63.0	0.4354	-0.8548	0.9593	-63.0
	1.10	0.4769	1.2259	1.3154	68.7	0.2750	-0.7085	0.7602	-68.7
	1.15	0.4996	1.5697	1.6473	72.3	0.1841	-0.5785	0.6071	-72.3
	1.20	0.5559	1.9911	2.0673	74.4	0.1301	-0.4659	0.4837	-74.4
	1.25	0.6819	2.5432	2.6331	75.0	0.0984	-0.3668	0.3798	-75.0
	1.30	0.9770	3.3234	3.4641	73.6	0.0614	-0.2770	0.2887	-73.6
	1.35	1.7663	4.4952	4.8298	68.5	0.0757	-0.1927	0.2070	-68.5
	1.40	4.2717	5.6230	7.3627	54.2	0.0801	-0.1111	0.1369	-54.2
	1.45	9.5808	2.9693	10.0304	17.2	0.0952	-0.0295	0.0997	-17.2
	1.50	6.7896	-2.9644	7.4085	-23.6	0.1237	0.0540	0.1350	23.6
	1.55	3.4883	-2.8748	4.5203	-39.5	0.1707	0.1407	0.2212	39.5
	1.60	2.1745	-2.0330	2.9769	-43.1	0.2454	0.2294	0.3359	43.1
	1.65	1.5822	-1.3654	2.0899	-40.6	0.3622	0.3126	0.4785	40.6
	1.70	1.2688	-0.8603	1.5329	-34.1	0.5399	0.3661	0.6524	34.1
	1.75	1.0928	-0.4590	1.1701	-23.0	0.7829	0.3319	0.8503	23.0
	1.80	0.9635	-0.1217	0.9712	-7.2	1.0216	0.1290	1.0297	7.2
	1.85	0.8634	0.1778	0.9011	11.4	1.0879	-0.2189	1.1098	-11.4
	1.90	0.8288	0.4570	0.9494	28.9	0.9253	-0.5102	1.0566	-28.9
	1.95	0.7929	0.7298	1.0776	42.6	0.6828	-0.6285	0.9280	-42.6
	2.00	0.7731	1.0386	1.2708	52.3	0.4781	-0.6245	0.7669	-52.3
	2.05	0.7702	1.3369	1.5170	59.5	0.3347	-0.5679	0.6592	-59.5
	2.10	0.7855	1.6413	1.7214	64.3	0.2379	-0.4948	0.5490	-64.3

Set VI (L/2A = 400) Table B

H)	SOURCE	L/8 OFF CENTER	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0000	0.2585	0.2585	90.0	0.0004	-3.8717	3.8717	-90.0
0.10	0.0005	0.5257	0.5257	89.9	0.0016	-1.8880	1.8880	-89.9
0.15	0.0028	0.8302	0.8302	89.8	0.0041	-1.2045	1.2045	-89.8
0.20	0.0108	1.1839	1.1840	89.5	0.0077	-0.8446	0.8446	-89.5
0.25	0.0340	1.6324	1.6328	88.8	0.0128	-0.6125	0.6125	-88.8
0.30	0.1018	2.2592	2.2615	87.4	0.0199	-0.4417	0.4422	-87.4
0.35	0.3221	3.2616	3.2774	84.4	0.0300	-0.3036	0.3051	-84.4
0.40	1.2651	5.1795	5.3513	76.5	0.0444	-0.1822	0.1876	-76.3
0.45	7.4554	7.5867	10.6571	45.5	0.0659	-0.0671	0.0940	-45.5
0.50	7.9739	-4.0715	8.9552	-27.0	0.0995	0.0508	0.1117	27.0
0.55	2.7367	-3.1660	4.1849	-49.2	0.1563	0.1808	0.2390	49.2
0.60	1.4592	-1.8452	2.3525	-51.7	0.2657	0.3534	0.4251	51.7
0.65	0.9924	-1.0021	1.4104	-45.5	0.4989	0.5038	0.7090	45.5
0.70	0.7774	-0.3736	0.8625	-25.7	1.0450	0.5022	1.1594	25.7
0.75	0.6807	0.1839	0.7051	15.1	1.3691	-0.3698	1.4182	-15.1
0.80	0.6831	0.7748	1.0529	48.6	0.6403	-0.7262	0.9681	-48.6
0.85	0.8718	1.5305	1.7614	60.5	0.2810	-0.4933	0.5677	-60.5
0.90	1.7264	2.6174	3.1355	56.6	0.1750	-0.2662	0.3189	-56.6
0.95	4.8924	2.3686	5.4356	25.8	0.1050	-0.0802	0.1840	-25.8
1.00	4.0665	-1.6157	4.3757	-21.7	0.2124	0.0844	0.2285	21.7
1.05	2.0154	-1.4855	2.5065	-36.5	0.3214	0.2364	0.3990	36.5
1.10	1.3029	-0.8866	1.5759	-34.2	0.5246	0.3570	0.6346	34.2
1.15	1.0031	-0.4117	1.0645	-22.5	0.8532	0.3501	0.9223	22.5
1.20	0.8570	-0.0227	0.8575	-1.5	1.1000	0.0308	1.1664	1.5
1.25	0.7894	0.3293	0.8553	22.6	1.0790	-0.4501	1.1691	-22.6
1.30	0.7871	0.6836	1.0425	41.0	0.7242	-0.6290	0.9592	41.0
1.35	0.8928	1.0779	1.3996	50.4	0.4558	-0.5502	0.7145	-50.4
1.40	1.3005	1.4815	1.9715	48.7	0.3347	-0.3812	0.5073	-48.7
1.45	2.1155	1.1170	2.3922	27.8	0.3697	-0.1952	0.4180	-27.8
1.50	1.5492	0.3950	1.5989	14.3	0.6060	-0.1547	0.6254	-14.3
1.55	1.0027	0.7034	1.2248	35.0	0.6684	-0.4688	0.8164	35.0
1.60	0.8125	1.1455	1.4004	54.5	0.4144	-0.5816	0.7141	-54.5
1.65	0.7635	1.5934	1.7669	64.4	0.2446	-0.5104	0.5660	-64.4
1.70	0.8033	2.1558	2.2520	69.1	0.1584	-0.4148	0.4441	-69.1
1.75	0.9586	2.7401	2.9029	70.7	0.1158	-0.3252	0.3445	-70.7
1.80	1.3591	3.6050	3.8532	69.3	0.0915	-0.2428	0.2595	-69.3
1.85	2.4424	4.8078	5.3426	63.1	0.0840	-0.1653	0.1854	-63.1
1.90	5.5587	5.6504	7.9203	45.5	0.0885	-0.0899	0.1262	-45.5
1.95	9.3152	1.2785	9.4025	7.8	0.1054	-0.0145	0.1064	-7.8
2.00	6.0208	-2.7575	6.6159	-24.4	0.1376	0.0626	0.1512	24.4
2.05	3.3848	-2.4919	4.2032	-36.4	0.1916	0.1411	0.2379	36.4
2.10	2.2394	-1.7410	2.3505	-37.9	0.2783	0.2164	0.3525	37.9

Set VI ($L/2A = 400$) Table C

C)	SOURCE	L/4	OFF	CENTER	MAG	Y	K	X	MAG	Z	ANG	Z
L/(LAMBDA)	G	3										
0.05	0.0000	0.2167			C.2167	90.0	0.0004	-4.6154	4.6154		90.0	
0.10	0.0003	0.4421			0.4421	90.0	0.0017	-2.2619	2.2619		-90.0	
0.15	0.0019	0.6870			0.6870	89.8	0.0040	-1.4557	1.4557		-89.8	
0.20	0.0071	C.9669			0.9669	89.6	0.0076	-1.0342	1.0342		-89.6	
0.25	0.0224	1.3085			1.3087	89.0	0.0131	-0.7640	0.7641		-89.0	
0.30	0.0663	1.7644			1.7657	87.3	0.0213	-0.5060	0.5064		-87.8	
0.35	0.2072	2.4576			2.4663	85.2	0.0341	-0.4040	0.4055		-85.2	
0.40	0.8009	3.7206			3.8058	77.9	0.0553	-0.2569	0.2628		-77.9	
0.45	4.6525	5.2611			7.0232	48.5	0.0943	-0.1067	0.1424		-48.5	
0.50	4.8937	-1.8628			5.2302	-20.3	0.1785	0.0679	0.1910		20.8	
0.55	1.6549	-1.1447			2.0122	-34.7	0.4087	0.2827	0.4970		34.7	
0.60	0.8757	-0.1705			0.8922	-11.0	1.1002	0.2142	1.1209		11.0	
0.65	0.6022	0.5393			0.8084	41.8	0.9216	-0.8253	1.2371		-41.8	
0.70	0.4970	1.1714			1.2724	67.0	0.3069	-0.7235	0.7859		-67.0	
0.75	0.4958	1.8519			1.9171	75.0	0.1349	-0.5039	0.5216		-75.0	
0.80	0.6365	2.7170			2.7906	76.8	0.0817	-0.3489	0.3584		-76.8	
0.85	1.1414	3.5973			4.1571	74.1	0.0660	-0.2313	C.2406		-74.1	
0.90	3.0522	5.9989			6.7307	63.0	0.0074	-0.1324	0.1486		-63.0	
0.95	5.7966	5.0913			11.0406	27.5	0.0804	-0.0418	C.0906		-27.5	
1.00	7.8803	-3.5474			8.6420	-24.2	0.1055	0.0475	0.1157		24.2	
1.05	3.5467	-3.3740			4.8952	-43.6	0.1480	0.1408	0.2043		43.6	
1.10	2.0554	-2.2531			3.0498	-47.6	0.2210	0.2422	0.3279		47.6	
1.15	1.4356	-1.4044			2.0083	-44.4	0.3559	0.3482	0.4979		44.4	
1.20	1.1311	-0.7349			1.3488	-33.0	0.6217	0.4039	0.7414		33.0	
1.25	0.9842	-0.1327			0.9931	-7.7	0.9979	0.1346	1.0069		7.7	
1.30	0.9714	0.5009			1.0929	27.3	0.8132	-0.4193	0.9150		-27.3	
1.35	1.2062	1.2840			1.7617	46.8	0.3887	-0.4137	0.5676		-46.8	
1.40	2.2429	2.2257			3.1596	44.8	0.2246	-0.2229	0.3165		-44.8	
1.45	4.7819	1.2488			4.9423	14.6	0.1958	-0.0511	0.2023		-14.6	
1.50	3.7326	-1.4809			4.0157	-21.6	0.2315	0.0918	0.2490		21.6	
1.55	2.1870	-1.4719			2.5302	-33.9	0.3147	0.2118	0.3793		33.9	
1.60	1.5290	-1.0377			1.8479	-34.2	0.4478	0.3039	C.5412		34.2	
1.65	1.2159	-0.6587			1.3828	-28.4	0.6358	0.3445	0.7232		28.4	
1.70	1.0425	-0.3476			1.0989	-18.4	0.6633	0.2875	C.9100		18.4	
1.75	0.9364	-0.0826			0.9401	-5.0	1.0597	0.0934	1.0638		5.0	
1.80	0.8632	0.1528			0.8616	10.0	1.1172	-0.1966	1.1343		-10.0	
1.85	0.8250	0.3680			0.9033	24.0	1.0110	-0.4510	1.1070		-24.0	
1.90	C.7969	0.5639			0.7962	35.3	0.8301	-0.5917	1.0243		-35.3	
1.95	0.7524	0.7513			1.0033	45.0	0.6055	-0.6645	0.9405		-45.0	
2.00	0.7149	0.5849			1.2170	54.0	0.4827	-0.6650	0.8217		-54.0	
2.05	0.7137	1.2323			1.4245	59.9	0.3517	-0.6075	0.7020		-59.9	
2.10	0.7323	1.4971			1.6606	63.9	0.2637	-0.5390	0.6000		-63.9	

Set VI ($L/2A = 400$) Table D

D) SOURCE 3L/8 OFF CENTER	MAG Y	ANG Y	X	MAG Z	ANG Z
L/(LAMBDA)					
0.05	0.1430	90.0	-6.9953	6.9953	-90.0
0.10	0.2893	90.0	-3.4569	3.4569	-90.0
0.15	0.4430	89.9	-2.2573	2.2573	-89.9
0.20	0.6099	89.7	-1.6397	1.6397	-89.7
0.25	0.7993	89.4	-1.2510	1.2511	-89.4
0.30	1.0295	88.6	-0.9708	0.9711	-88.6
0.35	1.3422	86.8	-0.7428	0.7439	-86.8
0.40	1.8478	81.4	-0.5290	0.5351	-81.4
0.45	1.8478	56.9	-0.2887	0.3446	-56.9
0.50	2.4316	4.6	-0.0491	0.6155	-4.6
0.55	1.6195	43.0	-0.9340	1.3705	-43.0
0.60	0.5340	73.6	-0.9711	1.0124	-73.6
0.65	0.4973	81.6	-0.7402	0.7482	-81.6
0.70	0.9475	84.1	-0.5843	0.5874	-84.1
0.75	1.3221	84.6	-0.4681	0.4702	-84.6
0.80	1.6934	83.4	-0.3705	0.3729	-83.4
0.85	2.1173	79.7	-0.2798	0.2844	-79.7
0.90	2.6640	69.1	-0.1874	0.2006	-69.1
0.95	3.4588	35.8	-0.0837	0.1433	-35.8
1.00	4.0782	-9.9	0.0387	0.2256	9.9
1.05	-0.7599	-12.7	0.1151	0.5218	12.7
1.10	-0.4227	22.5	-0.3390	0.8863	-22.5
1.15	0.4316	57.8	-0.6214	0.7340	-57.8
1.20	1.1533	71.6	-0.4920	0.5186	-71.6
1.25	1.8294	76.1	-0.3676	0.3786	-76.1
1.30	2.5646	70.2	-0.2708	0.2788	-76.2
1.35	3.4835	71.7	-0.1893	0.1994	-71.7
1.40	4.7622	57.7	-0.1139	0.1346	-57.7
1.45	6.2811	21.5	-0.0376	0.1026	-21.5
1.50	3.5694	-17.5	0.0451	0.1501	17.5
1.55	3.5694	-28.7	0.1432	0.2777	28.7
1.60	-2.0001	-19.9	0.2437	0.4948	19.9
1.65	-1.7264	10.1	0.4652	0.7242	-10.1
1.70	-0.6888	44.4	0.7131	0.6305	-44.4
1.75	0.2411	61.1	-0.4415	0.4297	-61.1
1.80	1.1106	65.8	-0.3762	0.2879	-65.8
1.85	2.0379	62.1	-0.2627	0.1898	-62.1
1.90	3.1692	45.5	-0.1677	0.1226	-45.5
1.95	4.6551	8.2	-0.0875	0.1004	-8.2
2.00	5.8147	-23.9	-0.0143	0.1416	23.9
2.05	1.4174	-35.1	0.0573	0.2263	35.1
2.10	5.8147	-34.2	0.1301	0.3504	34.2
	-2.8578		0.1970		
	-2.5411				
	-1.6046				

Set VI ($L/2A = 400$) Table E

E)	SOURCE $L/4$ OFF CENTER, $Y=0$ AT CENTER	$MAG\ Y$	$ANG\ Y$	K	X	$MAG\ Z$	$ANG\ Z$
$L/(\lambda\lambda\lambda\lambda\lambda)$	G	R	$MAG\ Y$	K	X	$MAG\ Z$	$ANG\ Z$
0.05	0.0000	0.1573	0.1578	0.0001	-6.3384	6.3384	-90.0
0.10	0.0001	0.3177	0.3177	0.0005	-3.1478	3.1478	-90.0
0.15	0.0003	0.4820	0.4820	0.0011	-2.0746	2.0746	-90.0
0.20	0.0009	0.6533	0.6533	0.0021	-1.5307	1.5307	-89.9
0.25	0.0023	0.8345	0.8345	0.0033	-1.1983	1.1983	-89.8
0.30	0.0051	1.0293	1.0293	0.0046	-0.9715	0.9715	-89.7
0.35	0.0104	1.2424	1.2424	0.0067	-0.8049	0.8049	-89.5
0.40	0.0199	1.4798	1.4798	0.0091	-0.6757	0.6757	-89.2
0.45	0.0366	1.7499	1.7503	0.0119	-0.5712	0.5713	-88.8
0.50	0.0654	2.0644	2.0655	0.0153	-0.4839	0.4842	-88.2
0.55	0.1158	2.4403	2.4430	0.0194	-0.4089	0.4093	-87.3
0.60	0.2055	2.9023	2.9096	0.0243	-0.3428	0.3437	-85.9
0.65	0.3704	3.4869	3.5065	0.0301	-0.2836	0.2852	-83.9
0.70	0.6877	4.2444	4.2998	0.0372	-0.2296	0.2326	-80.8
0.75	1.3298	5.2199	5.3866	0.0458	-0.1799	0.1856	-75.7
0.80	2.6491	6.3254	6.8577	0.0563	-0.1345	0.1458	-67.3
0.85	4.9842	6.9647	8.5644	0.0680	-0.0950	0.1168	-54.4
0.90	7.9006	6.7133	10.3679	0.0735	-0.0625	0.0965	-40.4
0.95	13.7394	3.8863	14.2785	0.0674	-0.0191	0.0700	-15.8
1.00	10.6037	-5.3945	11.9014	0.0749	0.0381	0.0840	27.0
1.05	5.4518	-5.3090	7.6097	0.0941	0.0917	0.1314	44.2
1.10	3.4505	-4.1481	5.3956	0.1185	0.1425	0.1853	50.2
1.15	2.5022	-3.2676	4.1156	0.1477	0.1929	0.2430	52.6
1.20	1.9666	-2.6205	3.2764	0.1832	0.2441	0.3052	53.1
1.25	1.6286	-2.1258	2.6779	0.2271	0.2964	0.3734	52.5
1.30	1.3989	-1.7315	2.2260	0.2823	0.3494	0.4492	51.1
1.35	1.2345	-1.4062	1.8712	0.3526	0.4016	0.5344	48.7
1.40	1.1123	-1.1296	1.5653	0.4426	0.4495	0.6308	45.4
1.45	1.0189	-0.8885	1.3519	0.5575	0.4861	0.7397	41.1
1.50	0.9461	-0.6737	1.1615	0.7014	0.4994	0.8610	35.5
1.55	0.8888	-0.4788	1.0096	0.8720	0.4698	0.9905	28.3
1.60	0.8435	-0.2994	0.8951	1.0529	0.3737	1.1172	19.5
1.65	0.8079	-0.1322	0.8137	1.2054	0.1973	1.2215	9.3
1.70	0.7802	0.0245	0.7806	1.2804	-0.0401	1.2810	-1.8
1.75	0.7579	0.1716	0.7771	1.2550	-0.2841	1.2868	-12.8
1.80	0.7371	0.3108	0.7949	1.1515	-0.4857	1.2501	-22.9
1.85	0.7152	0.4469	0.8434	1.0056	-0.6284	1.1857	-32.0
1.90	0.6937	0.5793	0.9058	0.8492	-0.7093	1.1065	-39.9
1.95	0.6504	0.7116	0.9641	0.6998	-0.7657	1.0373	-47.6
2.00	0.6109	0.8889	1.0786	0.5251	-0.7641	0.9271	-55.5
2.05	0.6023	1.0715	1.2291	0.3987	-0.7092	0.8136	-60.7
2.10	0.6036	1.2533	1.5911	0.3119	-0.6477	0.7189	-64.3

Set VI ($L/2A = 400$) Table F

F)	SOURCE $L/4$ OFF CENTER,	$Y = (-J/6CC)CUI(KL/4)$	PHOS	AT CENTER	MAG Z	ANG Z
$L/(\lambda \Delta BDA)$	G	$MAG Y$	$ANG Y$	K	X	
0.05	0.0000	0.2174	90.0	0.0004	-4.5992	4.5992
0.10	0.0004	0.4491	90.0	0.0018	-2.2268	2.2268
0.15	0.0023	0.7166	89.8	0.0044	-1.3954	1.3954
0.20	0.0105	1.0687	89.4	0.0092	-0.9356	0.9357
0.25	0.0519	1.6711	88.2	0.0186	-0.5981	0.5984
0.30	0.6292	3.8686	80.6	0.0420	-0.2550	0.2585
0.35	0.9308	2.4925	-68.1	0.1498	0.3722	0.4012
0.40	0.1117	0.1133	11.1	0.6233	-1.6859	8.7665
0.45	0.0355	0.6999	67.1	0.0731	-1.4250	1.4269
0.50	0.0142	1.1547	89.3	0.0107	-0.8659	0.8660
0.55	0.0104	1.5693	89.6	0.0042	-0.6370	0.6370
0.60	0.0224	2.0124	89.4	0.0055	-0.4969	0.4969
0.65	0.0603	2.5336	86.0	0.0094	-0.3940	0.3947
0.70	0.1515	3.1990	87.3	0.0148	-0.3122	0.3126
0.75	0.3682	4.1204	84.9	0.0217	-0.2417	0.2427
0.80	0.9231	5.5165	80.4	0.0305	-0.1787	0.1813
0.85	2.5255	7.8181	71.2	0.0413	-0.1211	0.1279
0.90	7.0478	11.3764	51.7	0.0545	-0.0690	0.0879
0.95	14.4146	15.1170	17.5	0.0631	-0.0199	0.0662
1.00	10.6007	11.9014	-27.0	0.0749	0.0381	0.0840
1.05	5.1661	7.3279	-45.2	0.0962	0.0963	0.1365
1.10	3.1288	5.0115	-51.4	0.1240	0.1559	0.1955
1.15	2.2054	3.6960	-53.5	0.1617	0.2170	0.2706
1.20	1.7117	2.6457	-53.0	0.2114	0.2807	0.3514
1.25	1.4109	2.2450	-51.1	0.2600	0.3465	0.4454
1.30	1.2156	1.7945	-47.4	0.3775	0.4099	0.5572
1.35	1.0851	1.4462	-41.4	0.5168	0.4571	0.6515
1.40	1.0026	1.1618	-32.0	0.7178	0.4480	0.8461
1.45	0.9683	1.0156	-17.5	0.9388	0.2968	0.9846
1.50	1.0112	1.0114	1.3	0.9884	-0.0225	0.9887
1.55	1.2283	1.2738	15.4	0.7570	-0.2079	0.7850
1.60	1.6968	1.7270	10.7	0.5689	-0.1078	0.5790
1.65	1.6767	1.6858	-5.9	0.5900	0.0615	0.5932
1.70	1.2669	1.2866	-10.0	0.7653	0.1354	0.7772
1.75	1.0222	1.0228	-2.0	0.9772	0.0335	0.9777
1.80	0.8967	0.9145	11.3	1.0722	-0.2148	1.0935
1.85	0.8300	0.9146	24.6	0.9922	-0.4593	1.0933
1.90	0.7931	0.9779	35.8	0.8293	-0.5982	1.0226
1.95	0.7475	1.0614	45.2	0.6635	-0.6689	0.9422
2.00	0.6109	1.0786	55.5	0.5251	-0.7641	0.9271
2.05	0.7275	1.4304	59.6	0.3526	-0.6003	0.6962
2.10	0.7834	1.7145	62.9	0.2655	-0.5194	0.5833

Set VI (L/2A = 400) Table G

G)	SOURCE 1/4 OFF CENTER, L/(LAMBDA)	G	Y = (-J/500)CUI(RL/4) MINUS AT CENTER MAG Y	ANG Y	K	X	MAG Z	ANG Z
0.05	C.0090	0.2170	C.2170	90.0	0.0004	-4.6073	4.6073	-90.0
0.10	C.0093	0.4455	0.4455	90.0	0.0017	-2.2447	2.2447	-90.0
0.15	C.0021	0.7008	C.7008	89.6	0.0042	-1.4269	1.4269	-89.8
0.20	C.0085	1.0107	1.0107	89.5	0.0083	-0.9894	0.9894	-89.5
0.25	C.0316	1.4395	1.4398	88.7	0.0155	-0.6944	0.6945	-88.7
0.30	C.1354	2.1904	2.2006	86.5	0.0280	-0.4536	0.4544	-86.5
0.35	1.2151	4.5151	4.6758	74.9	0.0556	-0.2065	0.2139	-74.9
0.40	3.1966	-3.5080	4.7459	-47.7	0.1419	0.1557	0.2107	47.7
0.45	C.4070	-0.5489	0.6853	-53.4	0.8717	1.1750	1.4635	53.4
0.50	C.1531	0.3983	0.4267	69.0	0.8407	-2.1873	2.3433	-69.0
0.55	0.0773	0.9790	0.9820	85.5	0.6802	-1.0151	1.0183	-85.5
0.60	0.0477	1.4795	1.4803	88.2	0.0213	-0.6752	0.6755	-88.2
0.65	0.0450	2.0020	2.0025	88.7	0.0112	-0.4952	0.4954	-88.7
0.70	0.0772	2.6223	2.6234	88.3	0.0112	-0.3810	0.3812	-88.3
0.75	0.1822	3.4416	3.4405	87.0	0.0153	-0.2897	0.2902	-87.0
0.80	0.4818	4.6448	4.6697	84.1	0.0221	-0.2130	0.2141	-84.1
0.85	1.4325	6.6065	6.7600	77.6	0.0313	-0.1446	0.1479	-77.8
0.90	5.1485	9.5450	10.8450	61.7	0.0433	-0.0812	0.0922	-61.7
0.95	14.8562	5.6406	15.8910	20.8	0.0588	-0.0223	0.0629	-20.8
1.00	10.6087	-5.3945	11.9014	-27.0	0.0749	0.0381	0.0840	27.0
1.05	4.9432	-5.0849	7.0916	-45.8	0.0983	0.1011	0.1410	45.8
1.10	2.9150	-3.7233	4.7286	-51.9	0.1304	0.1665	0.2115	51.9
1.15	2.0304	-2.7379	3.4086	-53.4	0.1747	0.2350	0.2934	53.4
1.20	1.5652	-2.0288	2.5024	-52.3	0.2384	0.3090	0.3903	52.3
1.25	1.2902	-1.4833	1.9659	-49.0	0.3338	0.3838	0.5087	49.0
1.30	1.1181	-1.0312	1.5210	-42.7	0.4833	0.4457	0.6575	42.7
1.35	1.0146	-0.6251	1.1917	-31.6	0.7144	0.4401	0.8391	31.6
1.40	C.9773	-0.2249	1.0029	-13.0	0.9717	0.2236	0.9971	13.0
1.45	1.0509	C.2103	1.0717	11.3	0.9149	-0.1831	0.9331	-11.3
1.50	1.4154	0.6689	1.5655	25.3	0.5775	-0.2729	0.6388	-25.3
1.55	2.3050	0.5562	2.3711	13.6	0.4100	-0.0989	0.4217	-13.6
1.60	2.2117	-0.4606	2.2592	-11.8	0.4333	0.0903	0.4426	11.8
1.65	1.5184	-0.5593	1.6161	-20.2	0.5799	0.2136	0.6180	20.2
1.70	1.1590	-0.3193	1.2022	-15.4	0.8020	0.2209	0.8318	15.4
1.75	C.9811	-0.0661	0.5854	-3.5	1.0140	0.0684	1.0169	3.9
1.80	0.8837	0.1648	C.8989	10.6	1.0930	-0.2040	1.1124	-10.6
1.85	C.8280	0.3761	0.9094	24.4	1.0011	-0.4548	1.0996	-24.4
1.90	0.7951	0.5082	0.9773	35.5	0.8320	-0.5949	1.0233	-35.5
1.95	0.7499	0.7525	1.0024	45.1	0.6045	-0.6667	0.9413	-45.1
2.00	C.6109	0.8889	1.0786	55.5	0.5251	-0.7641	0.9271	-55.5
2.05	C.7203	1.2357	1.4303	59.8	0.3521	-0.6040	0.6391	-59.8
2.10	C.7537	1.5110	1.6891	63.2	0.2642	-0.5298	0.5420	-63.5

Set VI (L/2A = 400) Table H

H)	SOURCE	L/4 OFF	CENTER,	Y = (-J/100)CUT(KL/4)	ANG Y	MAG Y	ANG Y	MHUS	AT CENTER	X	MAG Z	ANG Z
	L/(LAMBDA)	S	B					K				
0.05	C.0000	0.2168	0.2168	0.2168	90.0	0.0004	-4.6127	0.0004	-4.6127	4.6127	-90.0	
0.10	0.0003	0.4432	0.4432	0.4432	90.0	0.0017	-2.2563	0.0017	-2.2563	2.2563	-90.0	
0.15	0.0019	0.6914	0.6914	0.6914	89.8	0.0041	-1.4464	0.0041	-1.4464	1.4464	-89.8	
0.20	0.0075	0.9802	0.9802	0.9803	89.6	0.0078	-1.0201	0.0078	-1.0201	1.0201	-89.6	
0.25	0.0246	1.3454	1.3454	1.3456	88.9	0.0137	-0.7430	0.0137	-0.7430	0.7432	-88.9	
0.30	0.0806	1.8680	1.8680	1.8685	87.5	0.0231	-0.5343	0.0231	-0.5343	0.5348	-87.5	
0.35	0.3064	2.7876	2.7876	2.8043	83.7	0.0390	-0.3545	0.0390	-0.3545	0.3566	-83.7	
0.40	1.9845	4.9650	4.9650	5.3469	68.2	0.0694	-0.1737	0.0694	-0.1737	0.1870	-68.2	
0.45	6.3137	-2.1913	-2.1913	6.6832	-19.1	0.1414	0.0491	0.1414	0.0491	0.1496	19.1	
0.50	1.2338	-1.2700	-1.2700	1.7706	-45.8	0.3936	0.4051	0.3936	0.4051	0.5648	45.8	
0.55	0.5199	-0.0929	-0.0929	0.5281	-10.1	1.8640	0.3329	1.8640	0.3329	1.6935	10.1	
0.60	0.3067	0.6265	0.6265	0.6976	63.9	0.6303	-1.2875	0.6303	-1.2875	1.4335	-63.9	
0.65	0.2192	1.2190	1.2190	1.2385	79.6	0.1429	-0.7947	0.1429	-0.7947	0.8074	-79.6	
0.70	0.1913	1.8215	1.8215	1.8316	84.0	0.0370	-0.5430	0.0370	-0.5430	0.5460	-84.0	
0.75	0.2238	3.5243	3.5243	2.3498	85.0	0.0344	-0.3907	0.0344	-0.3907	0.3922	-85.0	
0.80	0.3779	5.0733	5.0733	5.5445	83.9	0.0301	-0.2805	0.0301	-0.2805	0.2821	-83.9	
0.85	0.8966	7.7554	7.7554	5.1529	80.0	0.0338	-0.1911	0.0338	-0.1911	0.1941	-80.0	
0.90	2.9496	8.6894	8.6894	8.2974	59.2	0.0428	-0.1126	0.0428	-0.1126	0.1205	-69.2	
0.95	11.9353	-5.3945	-5.3945	14.7634	36.1	0.0548	-0.0399	0.0548	-0.0399	0.0677	-36.1	
1.00	4.4123	-4.7081	-4.7081	11.9014	-27.0	0.0749	0.0381	0.0749	0.0381	0.0840	27.0	
1.05	2.5098	-3.2390	-3.2390	6.4525	-48.9	0.1060	0.1131	0.1060	0.1131	0.1550	48.9	
1.10	1.7278	-2.2385	-2.2385	4.0981	-52.2	0.1494	0.1929	0.1494	0.1929	0.2440	52.2	
1.15	1.3316	-1.5167	-1.5167	2.6777	-52.3	0.2161	0.2600	0.2161	0.2600	0.3536	52.3	
1.20	1.1098	-0.9439	-0.9439	2.0198	-48.8	0.3264	0.3723	0.3264	0.3723	0.4951	48.8	
1.25	0.9869	-0.4280	-0.4280	1.4562	-40.4	0.5229	0.4452	0.5229	0.4452	0.6867	40.4	
1.30	0.9675	0.1014	0.1014	1.0775	-23.4	0.8517	0.3686	0.8517	0.3686	0.9281	23.4	
1.35	1.1342	0.7255	0.7255	0.9726	0.0	1.0224	-0.1070	1.0224	-0.1070	1.0280	-6.0	
1.40	1.8885	1.4213	1.4213	1.3426	32.6	0.6255	-0.4003	0.6255	-0.4003	0.7426	-32.6	
1.45	3.5702	0.7113	0.7113	2.3636	37.0	0.3380	-0.2544	0.3380	-0.2544	0.4231	-37.0	
1.50	2.8270	-1.0298	-1.0298	3.0087	11.3	0.2694	-0.0537	0.2694	-0.0537	0.2747	-11.3	
1.55	1.7753	-0.5927	-0.5927	2.0349	-20.0	0.3123	0.1138	0.3123	0.1138	0.3324	20.0	
1.60	1.0795	-0.3444	-0.3444	1.4026	-29.2	0.250	0.2397	0.250	0.2397	0.4914	29.2	
1.65	0.9515	-0.0787	-0.0787	1.1331	-26.0	0.8408	0.2682	0.8408	0.2682	0.6837	26.6	
1.70	0.8736	0.1504	0.1504	0.9540	-17.7	1.0440	-0.0863	1.0440	-0.0863	0.8826	17.7	
1.75	0.8261	0.3707	0.3707	0.8875	-4.7	1.1091	0.0863	1.1091	0.0863	1.0476	4.7	
1.80	0.7903	0.5517	0.5517	0.9055	10.2	1.0076	-0.1986	1.0076	-0.1986	1.1268	-10.2	
1.85	0.7516	0.6335	0.6335	0.9700	24.2	0.8349	-0.4522	0.8349	-0.4522	1.1044	-24.2	
1.90	0.7154	1.2338	1.2338	1.0630	35.4	0.6051	-0.5928	0.6051	-0.5928	1.0239	-35.4	
1.95	0.6790	1.5018	1.5018	1.0630	45.0	0.5251	-0.6653	0.5251	-0.6653	0.9407	-45.0	
2.00	0.6390	1.7338	1.7338	1.0730	55.3	0.3518	-0.7641	0.3518	-0.7641	0.9271	-55.3	
2.05	0.6000	1.9338	1.9338	1.0730	59.9	0.3518	-0.8064	0.3518	-0.8064	0.7011	-59.9	
2.10	0.5610	2.0918	2.0918	1.0730	63.8	0.2638	-0.8531	0.2638	-0.8531	0.5974	-63.8	

Set VI (L/2A = 400) Table I

1) SOURCE L/4 OFF CENTER, GROUND PLANE AT CENTER									
L/(LAMBDA)	G	δ	MAG Y	ANG Y	R	X	MAG Z	ANG Z	
0.05	0.0000	0.2817	0.2817	90.0	0.0005	-3.5500	3.5500	-90.0	
0.10	0.0007	0.5792	0.5792	89.9	0.0020	-1.7265	1.7265	-89.9	
0.15	0.0038	0.9121	0.9121	89.8	0.0045	-1.0964	1.0964	-89.8	
0.20	0.0142	1.3095	1.3095	89.4	0.0083	-0.7636	0.7636	-89.4	
0.25	0.0447	1.8228	1.8228	88.6	0.0134	-0.5484	0.5486	-88.6	
0.30	0.1323	2.2530	2.2530	87.0	0.0202	-0.3907	0.3912	-87.0	
0.35	0.4135	3.7430	3.7664	83.7	0.0291	-0.2639	0.2655	-83.7	
0.40	1.5997	6.0545	6.2623	75.2	0.0408	-0.1544	0.1597	-75.2	
0.45	9.3004	8.8545	12.8690	45.7	0.0562	-0.0537	0.0777	-43.7	
0.50	9.7777	-5.6292	11.2823	-29.9	0.0768	0.0442	0.0886	29.9	
0.55	3.2902	-4.5175	5.5687	-53.9	0.1053	0.1446	0.1789	53.9	
0.60	1.7128	-2.9627	3.4222	-60.0	0.1462	0.2530	0.2922	60.0	
0.65	1.1281	-2.0383	2.3297	-61.0	0.2078	0.3756	0.4292	61.0	
0.70	0.8414	-1.4265	1.6502	-59.5	0.3068	0.5201	0.6038	59.5	
0.75	0.6752	-0.9766	1.1873	-55.3	0.4790	0.6928	0.8422	55.3	
0.80	0.5678	-0.6173	0.8387	-47.4	0.8072	0.8775	1.1923	47.4	
0.85	0.4928	-0.3105	0.5824	-32.2	1.4527	0.9153	1.7170	32.2	
0.90	0.4375	-0.0335	0.4388	-4.4	2.2724	0.1739	2.2791	4.4	
0.95	0.3954	0.2292	0.4570	30.1	1.6929	-1.0975	2.1881	-30.1	
1.00	0.3630	0.4902	0.6100	53.5	0.9757	-1.3175	1.6395	-53.5	
1.05	0.3391	0.7613	0.8334	66.0	0.4882	-1.0961	1.1959	-66.0	
1.10	0.3246	1.0566	1.1054	72.9	0.2650	-0.8648	0.9047	-72.9	
1.15	0.3234	1.3953	1.4323	76.9	0.1577	-0.6801	0.6982	-76.9	
1.20	0.3466	1.8075	1.8404	79.1	0.1023	-0.5336	0.5434	-79.1	
1.25	0.4228	2.3455	2.3833	79.8	0.0744	-0.4129	0.4196	-79.8	
1.30	0.6349	3.1081	3.1722	78.5	0.0631	-0.3089	0.3152	-78.5	
1.35	1.2680	4.2750	4.4591	73.5	0.0638	-0.2150	0.2243	-73.5	
1.40	3.4599	5.8397	6.7800	59.3	0.0753	-0.1268	0.1475	-59.3	
1.45	8.6270	5.9996	9.3478	22.6	0.0987	-0.0412	0.1070	-22.6	
1.50	6.5975	-2.1008	6.9239	-17.7	0.1376	0.0438	0.1444	17.7	
1.55	3.5610	-2.2971	4.2376	-32.8	0.1983	0.1279	0.2360	32.8	
1.60	2.2892	-1.6228	2.8061	-35.3	0.2907	0.2061	0.3564	35.3	
1.65	1.6988	-1.0443	1.9941	-31.6	0.4272	0.2626	0.5015	31.6	
1.70	1.3809	-0.5899	1.5016	-23.1	0.6124	0.2616	0.6659	23.1	
1.75	1.1911	-0.2192	1.2110	-10.4	0.8121	0.1494	0.8257	10.4	
1.80	1.0700	0.0999	1.0767	5.3	0.9265	-0.0865	0.9305	-5.3	
1.85	0.9906	0.3892	1.0643	21.4	0.8745	-0.3436	0.9396	-21.4	
1.90	0.9393	0.6644	1.1506	35.3	0.7096	-0.5019	0.8691	-35.3	
1.95	0.9098	0.9384	1.3070	45.9	0.5326	-0.5493	0.7651	-45.9	
2.00	0.9000	1.2235	1.5189	53.7	0.3901	-0.5303	0.6584	-53.7	
2.05	0.9122	1.5336	1.7844	59.3	0.2805	-0.4816	0.5504	-59.3	
2.10	0.9538	1.8864	2.1138	63.2	0.2135	-0.4222	0.4731	-63.2	

J) MUTUAL ADMITTANCES OR IMPEDANCES, SOURCE L/4 OFF CENTER, Y=0 AT CENTER, OUTPUT POINT L/4 FROM CENTER									
L/(LAMBDA)	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z	
0.05	0.0000	0.0061	0.0061	90.0	0.0822	-163.0556	163.0556	-90.0	
0.10	0.0001	0.0127	0.0127	89.8	0.3109	-78.7660	78.7661	-89.8	
0.15	0.0003	0.0201	0.0201	89.3	0.6409	-49.6481	49.6522	-89.3	
0.20	0.0009	0.0290	0.0290	88.3	1.0127	-34.4857	34.4986	-88.3	
0.25	0.0022	0.0398	0.0399	86.9	1.3692	-25.0449	25.0823	-86.9	
0.30	0.0048	0.0534	0.0536	84.9	1.6663	-18.5777	18.6523	-84.9	
0.35	0.0096	0.0707	0.0714	82.3	1.8766	-13.8873	14.0135	-82.3	
0.40	0.0179	0.0931	0.0948	79.1	1.9882	-10.3625	10.5515	-79.1	
0.45	0.0320	0.1223	0.1264	75.3	2.0016	-7.6554	7.9128	-75.3	
0.50	0.0558	0.1608	0.1702	70.9	1.9257	-5.5510	5.8756	-70.9	
0.55	0.0963	0.2121	0.2329	65.6	1.7748	-3.9090	4.2931	-65.6	
0.60	0.1668	0.2806	0.3264	59.3	1.5656	-2.6333	3.0635	-59.3	
0.65	0.2941	0.3700	0.4727	51.5	1.3165	-1.6563	2.1156	-51.5	
0.70	0.5352	0.4752	0.7157	41.0	1.0449	-0.9277	1.3973	-41.6	
0.75	1.0134	0.5396	1.1431	28.0	0.7688	-0.4094	0.8710	-23.0	
0.80	1.9439	0.2741	1.9632	8.0	0.5044	-0.0711	0.5094	-8.0	
0.85	3.1941	-1.3404	3.4640	-22.0	0.2662	0.1117	0.2887	22.8	
0.90	2.2338	-5.3176	5.7677	-67.2	0.0671	0.1593	0.1734	67.2	
0.95	-5.4585	-6.0560	8.1608	48.0	-0.0620	0.0911	0.1225	-48.0	
1.00	-4.7690	2.1900	5.2662	-24.6	-0.1727	-0.0790	0.1899	24.6	
1.05	-1.3025	2.2003	2.3507	-59.4	-0.1992	-0.3366	0.3911	59.4	
1.10	-0.3357	1.4143	1.4541	-76.7	-0.1586	-0.6691	0.6877	76.7	
1.15	-0.0456	0.9360	0.9377	-87.2	-0.0513	-1.0652	1.0664	87.2	
1.20	0.0511	0.6567	0.6587	85.6	0.1177	-1.5135	1.5181	-85.6	
1.25	0.0830	0.4852	0.4922	80.3	0.3425	-2.0025	2.0316	-80.3	
1.30	0.0911	0.3740	0.3857	76.3	0.6122	-2.5196	2.5929	-76.3	
1.35	0.0902	0.3008	0.3141	73.3	0.9145	-3.0500	3.1841	-73.3	
1.40	0.0863	0.2497	0.2642	70.9	1.2366	-3.5768	3.7846	-70.9	
1.45	0.0820	0.2135	0.2287	69.0	1.5677	-4.0812	4.3720	-69.0	
1.50	0.0784	0.1873	0.2030	67.3	1.9005	-4.5435	4.9250	-67.3	
1.55	0.0759	0.1679	0.1843	65.7	2.2338	-4.9455	5.4266	-65.7	
1.60	0.0747	0.1531	0.1704	64.0	2.5749	-5.2741	5.8691	-64.0	
1.65	0.0750	0.1410	0.1597	62.0	2.9420	-5.5282	6.2623	-62.0	
1.70	0.0701	0.1297	0.1504	59.0	3.3670	-5.7347	6.6500	-59.6	
1.75	0.0762	0.1176	0.1401	57.1	3.8817	-5.9920	7.1394	-57.1	
1.80	0.0707	0.1052	0.1267	56.1	4.3998	-6.5500	7.8905	-56.1	
1.85	0.0559	0.1000	0.1140	60.6	4.2578	-7.6175	8.7267	-60.8	
1.90	0.0392	0.1159	0.1223	71.3	2.6201	-7.7437	8.1749	-71.3	
1.95	0.0554	0.1474	0.1574	69.4	2.2332	-5.9459	6.3514	-69.4	
2.00	0.0612	0.1426	0.1641	60.4	3.0138	-5.2954	6.0930	-60.4	
2.05	0.0871	0.1394	0.1644	58.0	3.2235	-5.1577	6.0821	-58.0	
2.10	0.0923	0.1450	0.1726	57.3	3.1137	-4.8863	5.7941	-57.5	

Set VI ($L/2A = 400$) Table K

$L/(\lambda/2)$	MONOSTATIC AND BISSTATIC ECHL AREAS/ $(\lambda/2A)^2$ SQUARES	$S(E)$	$S(F)$	$S(G)$
0.05	0.00000	0.00000	0.00000	0.00000
0.10	0.00000	0.00000	0.00000	0.00000
0.15	0.00002	0.00001	0.00000	0.00002
0.20	0.00013	0.00006	0.00003	0.00011
0.25	0.00064	0.00030	0.00015	0.00055
0.30	0.00278	0.00127	0.00061	0.00235
0.35	0.01201	0.00530	0.00249	0.01005
0.40	0.06172	0.02625	0.01209	0.05119
0.45	0.46280	0.18886	0.08512	0.38079
0.50	0.61316	0.40662	0.23917	0.50154
0.55	0.25520	0.10525	0.04068	0.20831
0.60	0.16178	0.10217	0.02384	0.13263
0.65	0.12806	0.07682	0.01740	0.10652
0.70	0.11349	0.06805	0.01440	0.09736
0.75	0.10709	0.06259	0.01236	0.09734
0.80	0.10485	0.05983	0.01121	0.10572
0.85	0.10494	0.05862	0.01049	0.12735
0.90	0.10635	0.05843	0.01010	0.17851
0.95	0.10343	0.05900	0.01000	0.23500
1.00	0.11064	0.06024	0.01024	0.06005
1.05	0.11243	0.06223	0.01093	0.00956
1.10	0.11316	0.06516	0.01231	0.00743
1.15	0.11201	0.06952	0.01484	0.00996
1.20	0.10779	0.06944	0.01948	0.01202
1.25	0.09898	0.09749	0.02854	0.01305
1.30	0.08444	0.09269	0.04815	0.01303
1.35	0.07060	0.08498	0.09806	0.01218
1.40	0.13137	0.08907	0.25090	0.01279
1.45	0.63302	0.20757	0.75853	0.02966
1.50	0.90344	0.30520	0.47657	0.04349
1.55	0.74667	0.27834	0.21921	0.04002
1.60	0.64294	0.25609	0.12538	0.05286
1.65	0.59555	0.24432	0.11143	0.03802
1.70	0.57147	0.23345	0.07793	0.03893
1.75	0.56141	0.23589	0.06077	0.04329
1.80	0.55949	0.23526	0.05105	0.05339
1.85	0.56240	0.23583	0.04528	0.07584
1.90	0.56806	0.23738	0.04188	0.13077
1.95	0.57494	0.23959	0.04018	0.27362
2.00	0.58169	0.24250	0.03988	0.41260
2.05	0.58694	0.24622	0.04104	0.24221
2.10	0.58898	0.25107	0.04398	0.12777
			0.05060	0.01122
			0.05432	0.01301

Set VI ($L/2A=400$) Table K (contd.)

$L/(\lambda \text{MBDA})$	$S(H)$	$S(I)$	$S(J)$	$S(K)$	$S(L)$	$S(M)$	$S(N)$
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.15	0.00001	0.00001	0.00001	0.00001	0.00000	0.00000	0.00000
0.20	0.00010	0.00009	0.00007	0.00004	0.00002	0.00001	0.00003
0.25	0.00047	0.00043	0.00033	0.00021	0.00010	0.00003	0.00014
0.30	0.00199	0.00181	0.00140	0.00088	0.00042	0.00011	0.00055
0.35	0.00846	0.00767	0.00583	0.00361	0.00168	0.00043	0.00223
0.40	0.04271	0.03859	0.02896	0.01764	0.00807	0.00202	0.01071
0.45	0.31381	0.28357	0.21069	0.12627	0.05672	0.01404	0.07554
0.50	0.40662	0.36949	0.27300	0.16144	0.07130	0.01744	0.09568
0.55	0.16525	0.15231	0.11271	0.06613	0.02887	0.00698	0.03914
0.60	0.10217	0.09678	0.07252	0.04258	0.01848	0.00444	0.02547
0.65	0.07882	0.07827	0.06035	0.03590	0.01563	0.00375	0.02203
0.70	0.06805	0.07305	0.05928	0.03631	0.01602	0.00386	0.02327
0.75	0.06259	0.07618	0.06712	0.04317	0.01953	0.00475	0.02940
0.80	0.05983	0.08920	0.08890	0.06131	0.02874	0.00710	0.04504
0.85	0.05862	0.12203	0.14498	0.10934	0.05345	0.01342	0.08738
0.90	0.05843	0.21121	0.31882	0.26672	0.13609	0.03468	0.23213
0.95	0.05900	0.39395	0.81320	0.75888	0.40241	0.10364	0.71570
1.00	0.06024	0.17451	0.53523	0.55294	0.30231	0.07827	0.56058
1.05	0.06223	0.04234	0.20748	0.23637	0.13207	0.03421	0.25580
1.10	0.06516	0.01313	0.11152	0.13758	0.07800	0.02015	0.15850
1.15	0.06952	0.00488	0.07739	0.10213	0.05852	0.01506	0.12576
1.20	0.07618	0.00201	0.06434	0.09032	0.05236	0.01345	0.12027
1.25	0.08704	0.00093	0.06177	0.09261	0.05465	0.01408	0.13601
1.30	0.10634	0.00078	0.06794	0.11066	0.06720	0.01747	0.18404
1.35	0.14490	0.00219	0.08736	0.15962	0.10128	0.02677	0.31022
1.40	0.22851	0.01033	0.13413	0.28919	0.19513	0.05277	0.67876
1.45	0.28964	0.03897	0.16896	0.46218	0.33722	0.09367	1.35028
1.50	0.10216	0.04043	0.05999	0.22963	0.18329	0.05227	0.85513
1.55	0.02335	0.02768	0.01390	0.08436	0.07386	0.02150	0.40666
1.60	0.00586	0.02160	0.00355	0.03930	0.03747	0.01104	0.24789
1.65	0.00165	0.01882	0.00102	0.02274	0.02311	0.00682	0.18891
1.70	0.00063	0.01746	0.00039	0.01539	0.01628	0.00476	0.17214
1.75	0.00042	0.01675	0.00026	0.01171	0.01258	0.00362	0.18446
1.80	0.00040	0.01638	0.00025	0.00978	0.01040	0.00295	0.23462
1.85	0.00039	0.01655	0.00025	0.00921	0.00977	0.00271	0.36541
1.90	0.00037	0.01963	0.00023	0.01204	0.01302	0.00367	0.68694
1.95	0.00036	0.03016	0.00034	0.02180	0.02433	0.00697	0.92080
2.00	0.00036	0.03213	0.00036	0.02311	0.02581	0.00739	0.47731
2.05	0.00043	0.02954	0.00040	0.02091	0.02364	0.00681	0.22351
2.10	0.00063	0.02323	0.00055	0.02051	0.02423	0.00713	0.13120

Set VI ($L/2A=400$) Table K (contd.)

$L/(LAMBDA)$	$S(U)$	$S(P)$	$S(Q)$	$S(R)$	$S(S)$	$S(T)$	$S(U)$
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.20	0.00003	0.00003	0.00002	0.00001	0.00001	0.00000	0.00000
0.25	0.00015	0.00013	0.00010	0.00007	0.00003	0.00001	0.00000
0.30	0.00061	0.00055	0.00042	0.00026	0.00012	0.00003	0.00001
0.35	0.00249	0.00223	0.00168	0.00104	0.00048	0.00012	0.00003
0.40	0.01209	0.01083	0.00807	0.00488	0.00222	0.00056	0.00014
0.45	0.08512	0.07661	0.05672	0.03389	0.01518	0.00375	0.00093
0.50	0.10527	0.09613	0.07136	0.04237	0.01879	0.00460	0.00113
0.55	0.04068	0.03829	0.02887	0.01721	0.00761	0.00185	0.00045
0.60	0.02384	0.02369	0.01848	0.01121	0.00499	0.00122	0.00030
0.65	0.01740	0.01888	0.01563	0.00981	0.00444	0.00109	0.00027
0.70	0.01420	0.01772	0.01602	0.01059	0.00492	0.00122	0.00030
0.75	0.01236	0.01911	0.01953	0.01380	0.00662	0.00166	0.00042
0.80	0.01121	0.02403	0.02874	0.02189	0.01085	0.00276	0.00070
0.85	0.01049	0.03707	0.05345	0.04398	0.02244	0.00575	0.00148
0.90	0.01010	0.07660	0.13609	0.12047	0.06292	0.01619	0.00417
0.95	0.01000	0.18152	0.40241	0.38060	0.20247	0.05218	0.01344
1.00	0.01024	0.10848	0.30231	0.30372	0.16406	0.04229	0.01090
1.05	0.01093	0.03731	0.13207	0.14073	0.07721	0.01992	0.00514
1.10	0.01231	0.01691	0.07800	0.08855	0.04954	0.01282	0.00333
1.15	0.01464	0.00923	0.03852	0.07162	0.04111	0.01071	0.00281
1.20	0.01948	0.00543	0.05236	0.07030	0.04172	0.01099	0.00291
1.25	0.02854	0.00317	0.05465	0.08232	0.05088	0.01357	0.00364
1.30	0.04815	0.00206	0.06720	0.11636	0.07527	0.02035	0.00553
1.35	0.09806	0.00400	0.10128	0.20629	0.13989	0.03830	0.01052
1.40	0.25090	0.02125	0.19513	0.47624	0.35600	0.09348	0.02588
1.45	0.56218	0.03000	0.33722	0.99803	0.73924	0.20604	0.05740
1.50	0.38402	0.05500	0.18329	0.66377	0.51072	0.14321	0.04013
1.55	0.18766	0.07000	0.07386	0.32945	0.26304	0.07419	0.02093
1.60	0.11142	0.05851	0.03747	0.20805	0.17310	0.04917	0.01400
1.65	0.07793	0.05674	0.02311	0.16490	0.14287	0.04098	0.01180
1.70	0.06077	0.06325	0.01628	0.15641	0.14246	0.04138	0.01209
1.75	0.05105	0.08127	0.01258	0.17507	0.16973	0.05007	0.01487
1.80	0.04528	0.12304	0.01046	0.23680	0.24469	0.07341	0.02216
1.85	0.04188	0.22787	0.00977	0.39593	0.44017	0.13432	0.04115
1.90	0.04018	0.50870	0.01302	0.80881	0.97001	0.30068	0.09332
1.95	0.03988	0.80400	0.02433	1.18822	1.53056	0.48285	0.15162
2.00	0.04104	0.46345	0.02581	0.67700	0.94180	0.29950	0.09509
2.05	0.04398	0.25581	0.02304	0.34752	0.51872	0.16681	0.05360
2.10	0.04949	0.16401	0.02423	0.22170	0.35551	0.11571	0.03770

VI	ECHD AREAS/($LAMBDA$) ² S(A)	S(B)	S(C)	LOADED SCATTERER S(D)	SCATTERER S(E)	BACKSCATTER S(F)	INCIDENCE S(G)	S(H)	S(I)
0.05	0.71639	0.00000	0.00000	0.00000	0.00000	0.00000	0.17910	0.00000	0.00000
0.10	0.72103	0.00000	0.00000	0.00000	0.00000	0.00000	0.18026	0.00000	0.00000
0.15	0.72720	0.00000	0.00000	0.00000	0.00000	0.00000	0.18180	0.00000	0.00000
0.20	0.73598	0.00051	0.00018	0.00001	0.00006	0.00003	0.18403	0.00013	0.00011
0.25	0.74731	0.00731	0.00127	0.00004	0.00026	0.00014	0.18699	0.00063	0.00050
0.30	0.76029	0.00246	0.01238	0.00013	0.00096	0.00047	0.19077	0.00265	0.00178
0.35	0.76989	0.00087	0.06989	0.00036	0.00325	0.00144	0.19547	0.01068	0.00524
0.40	0.74323	0.00037	0.03961	0.00090	0.01070	0.00411	0.20124	0.04380	0.01289
0.45	0.37009	0.00009	0.01657	0.00211	0.03712	0.01141	0.20822	0.14963	0.02549
0.50	0.25342	0.00001	0.01069	0.00470	0.14978	0.03219	0.21665	0.20519	0.04013
0.55	0.65185	0.00042	0.00776	0.01018	0.65185	0.09694	0.22677	0.15785	0.05277
0.60	0.79385	0.00201	0.00559	0.02176	0.81721	0.31978	0.23892	0.12443	0.06243
0.65	0.88594	0.00636	0.00358	0.04671	0.44747	0.88594	0.25354	0.10791	0.07022
0.70	0.97086	0.01711	0.00164	0.10226	0.29507	0.95977	0.27117	0.10022	0.07737
0.75	1.06239	0.04313	0.00019	0.23085	0.23072	0.63874	0.29254	0.09725	0.08465
0.80	1.16821	0.10738	0.00062	0.52861	0.19969	0.45605	0.31862	0.09703	0.09254
0.85	1.29494	0.27326	0.00694	1.09103	0.18378	0.36472	0.35068	0.09849	0.10131
0.90	1.44969	0.70337	0.03077	1.55603	0.17577	0.31611	0.39037	0.10100	0.11121
0.95	1.64068	1.52495	0.10931	1.45361	0.17228	0.28904	0.43986	0.10412	0.12253
1.00	1.87593	1.91308	0.37703	1.16058	0.17147	0.27395	0.50170	0.10751	0.13565
1.05	2.16606	1.54670	1.28796	0.93437	0.17221	0.26605	0.57845	0.11085	0.15113
1.10	2.50783	1.16772	2.62018	0.78736	0.17361	0.26272	0.67124	0.11386	0.16987
1.15	2.87851	0.92949	2.09313	0.69308	0.17489	0.26233	0.77617	0.11636	0.19324
1.20	3.20378	0.78547	1.39597	0.63170	0.17519	0.26378	0.87748	0.11851	0.22340
1.25	3.33520	0.69582	1.03094	0.59131	0.17346	0.26621	0.94114	0.12174	0.26340
1.30	3.10719	0.63832	0.83741	0.56482	0.16842	0.26890	0.92615	0.13191	0.31685
1.35	2.52459	0.60083	0.72640	0.54791	0.15953	0.27137	0.82927	0.17056	0.38551
1.40	1.79937	0.57643	0.65876	0.53781	0.15411	0.27408	0.70985	0.30082	0.46362
1.45	0.84216	0.56100	0.61611	0.53273	0.21798	0.28271	0.62771	0.55899	0.53365
1.50	0.35228	0.55191	0.58897	0.53142	0.55364	0.32728	0.58911	0.69957	0.57628
1.55	0.42364	0.54744	0.57199	0.53298	0.71575	0.47857	0.57358	0.67269	0.58863
1.60	0.49231	0.54635	0.56198	0.53672	0.65027	0.60065	0.56619	0.62239	0.58309
1.65	0.52873	0.54774	0.55689	0.54202	0.59868	0.59434	0.56159	0.58609	0.57260
1.70	0.54633	0.55081	0.55532	0.54816	0.57258	0.57286	0.55881	0.56920	0.56405
1.75	0.55456	0.55476	0.55624	0.55415	0.56171	0.56196	0.55798	0.56088	0.55964
1.80	0.55888	0.55874	0.55881	0.55881	0.55954	0.55959	0.55919	0.55945	0.55935
1.85	0.56220	0.56221	0.56234	0.56216	0.56239	0.56236	0.56230	0.56239	0.56236
1.90	0.56601	0.56594	0.56631	0.56614	0.56801	0.56790	0.56704	0.56794	0.56764
1.95	0.57113	0.57102	0.57088	0.57155	0.57479	0.57453	0.57303	0.57472	0.57414
2.00	0.57821	0.57686	0.57640	0.57738	0.58138	0.58090	0.57995	0.58148	0.58080
2.05	0.58823	0.58216	0.58214	0.58243	0.58642	0.58573	0.58757	0.58695	0.58655
2.10	0.60321	0.58598	0.58695	0.58582	0.58832	0.58755	0.59605	0.58966	0.59032

VIII	PRIMEO	ADMITTANCE	PARAMETERS	(MILLIMETERS) FOR
	CENTER	SCATTERER	NORMAL INCIDENCE	
$L/(\lambda BDA)$	RE DY11	IM DY11	RE Y12	IM Y12
0.05	0.00000	0.00006	0.00000	0.00321
0.10	0.00000	0.00046	0.00002	0.01332
0.15	0.00001	0.00164	0.00016	0.03192
0.20	0.00006	0.00427	0.00083	0.06239
0.25	0.00028	0.00949	0.00327	0.11153
0.30	0.00119	0.01971	0.01171	0.19399
0.35	0.00506	0.04071	0.04308	0.34576
0.40	0.02566	0.08941	0.19257	0.66958
0.45	0.18955	0.17015	1.27491	1.14223
0.50	0.24711	-0.15778	1.50949	-0.96712
0.55	0.10112	-0.15985	0.56706	-0.90135
0.60	0.56299	-0.13679	0.32722	-0.71773
0.65	0.04899	-0.12471	0.23753	-0.61473
0.70	0.04267	-0.11870	0.19432	-0.55456
0.75	0.03960	-0.11595	0.17034	-0.51788
0.80	0.03819	-0.11507	0.15588	-0.49551
0.85	0.03771	-0.11528	0.14670	-0.48234
0.90	0.03783	-0.11516	0.14009	-0.47750
0.95	0.03835	-0.11718	0.13603	-0.47853
1.00	0.03916	-0.11422	0.13371	-0.48504
1.05	0.04019	-0.11394	0.13135	-0.49805
1.10	0.04145	-0.11354	0.12879	-0.51863
1.15	0.04300	-0.11770	0.12493	-0.54925
1.20	0.04510	-0.11436	0.11750	-0.59450
1.25	0.04841	-0.13739	0.10146	-0.66295
1.30	0.05503	-0.09380	0.06191	-0.77127
1.35	0.07254	-0.06808	-0.05107	-0.95004
1.40	0.13281	-0.02792	-0.43566	-1.19466
1.45	0.28491	-0.08700	-1.33281	-0.77580
1.50	0.24356	-0.25949	-0.97179	0.23754
1.55	0.16158	-0.28030	-0.44272	0.29162
1.60	0.12701	-0.27281	-0.22191	0.19741
1.65	0.11173	-0.26650	-0.11935	0.12202
1.70	0.10437	-0.26310	-0.06379	0.07027
1.75	0.10077	-0.26182	-0.03006	0.03541
1.80	0.09922	-0.26190	-0.00781	0.01245
1.85	0.09886	-0.26281	0.00787	-0.00168
1.90	0.09923	-0.26416	0.01957	-0.00855
1.95	0.10023	-0.26502	0.02884	-0.00891
2.00	0.10153	-0.26639	0.03680	-0.00270
2.05	0.10329	-0.26761	0.04445	0.01088
2.10	0.10539	-0.26733	0.05306	0.03366

I INPUT ADMITTANCES (MILLIMHOS) AND IMPEDANCES (KILO-OHMS)

A) SOURCE AT CENTER		B		MAG Y	ANG Y	R	X	MAG Z	ANG Z
L/(λ BDA)	G	B							
0.05	0.0000	0.2349	0.2349	0.2349	90.0	0.0005	-4.2568	4.2568	-90.0
0.10	0.0004	0.4825	0.4825	0.4825	89.9	0.0019	-2.0725	2.0725	-89.9
0.15	0.0025	0.7584	0.7584	0.7584	89.8	0.0043	-1.3185	1.3185	-89.8
0.20	0.0092	1.0859	1.0859	1.0859	89.5	0.0078	-0.9209	0.9209	-89.5
0.25	0.0291	1.5054	1.5057	1.5057	88.9	0.0128	-0.6640	0.6642	-88.9
0.30	0.0866	2.0982	2.1000	2.1000	87.6	0.0196	-0.4758	0.4762	-87.6
0.35	0.2716	3.0581	3.0702	3.0702	84.9	0.0288	-0.3244	0.3257	-84.9
0.40	1.0537	4.9447	5.0557	5.0557	78.0	0.0412	-0.1935	0.1978	-78.0
0.45	6.7196	8.3846	10.7450	10.7450	51.3	0.0582	-0.0726	0.0931	-51.3
0.50	9.3436	-5.1788	10.6828	10.6828	-29.0	0.0819	0.0454	0.0936	29.0
0.55	2.8065	-4.0448	4.9231	4.9231	-55.2	0.1158	0.1669	0.2031	55.2
0.60	1.4253	-2.5581	2.9284	2.9284	-60.9	0.1662	0.2983	0.3415	60.9
0.65	0.9433	-1.7216	1.9631	1.9631	-61.3	0.2448	0.4467	0.5094	61.3
0.70	0.7155	-1.1822	1.3818	1.3818	-58.8	0.3747	0.6191	0.7237	58.8
0.75	0.5877	-0.7911	0.9855	0.9855	-53.4	0.6051	0.8145	1.0147	53.4
0.80	0.5080	-0.4812	0.6997	0.6997	-43.4	1.0376	0.9827	1.4291	43.4
0.85	0.4550	-0.2179	0.5044	0.5044	-25.6	1.7880	0.8561	1.9824	25.6
0.90	0.4183	0.0194	0.4187	0.4187	2.7	2.3857	-0.1109	2.3882	-2.7
0.95	0.3928	0.2446	0.4627	0.4627	31.9	1.8346	-1.1425	2.1512	-31.9
1.00	0.3760	0.4687	0.6009	0.6009	51.3	1.0414	-1.2981	1.6642	-51.3
1.05	0.3674	0.7024	0.7927	0.7927	62.4	0.5848	-1.1178	1.2615	-62.4
1.10	0.3684	0.9580	1.0264	1.0264	69.0	0.3497	-0.9094	0.9743	-69.0
1.15	0.3831	1.2525	1.3098	1.3098	73.0	0.2233	-0.7301	0.7635	-73.0
1.20	0.4220	1.6122	1.6666	1.6666	75.3	0.1520	-0.5805	0.6000	-75.3
1.25	0.5105	2.0829	2.1446	2.1446	76.2	0.1110	-0.4529	0.4663	-76.2
1.30	0.7185	2.7520	2.8443	2.8443	75.4	0.0888	-0.3402	0.3516	-75.4
1.35	1.2784	3.7920	4.0017	4.0017	71.4	0.0798	-0.2368	0.2499	-71.4
1.40	3.1658	5.3557	6.2214	6.2214	59.4	0.0818	-0.1384	0.1607	-59.4
1.45	8.8831	3.8729	9.6906	9.6906	23.6	0.0946	-0.0412	0.1032	-23.6
1.50	6.7596	-3.2520	7.5011	7.5011	-25.7	0.1201	0.0578	0.1333	25.7
1.55	3.0948	-3.0707	4.3597	4.3597	-44.8	0.1628	0.1616	0.2294	44.8
1.60	1.8146	-2.1361	2.8028	2.8028	-49.7	0.2310	0.2719	0.3568	49.7
1.65	1.2792	-1.4599	1.9411	1.9411	-48.8	0.3395	0.3875	0.5152	48.8
1.70	1.0072	-0.9731	1.4005	1.4005	-44.0	0.5135	0.4962	0.7140	44.0
1.75	0.8494	-0.5986	1.0392	1.0392	-35.2	0.7866	0.5544	0.9623	35.2
1.80	0.7495	-0.2907	0.8039	0.8039	-21.2	1.1597	0.4498	1.2439	21.2
1.85	0.6828	-0.0220	0.6832	0.6832	-1.8	1.4630	0.0472	1.4637	1.8
1.90	0.6372	0.2251	0.6758	0.6758	19.5	1.3952	-0.4929	1.4797	-19.5
1.95	0.6067	0.4639	0.7637	0.7637	37.4	1.0402	-0.7953	1.3094	-37.4
2.00	0.5888	0.7057	0.9191	0.9191	50.2	0.6971	-0.8355	1.0881	-50.2
2.05	0.5836	0.9623	1.1254	1.1254	58.8	0.4607	-0.7598	0.8885	-58.8
2.10	0.5943	1.2484	1.3827	1.3827	64.5	0.3109	-0.6530	0.7232	-64.5

Set VII ($L/2A = 1000$) Table B

J)	SOURCE $L/(\lambda BDA)$	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
	0.05	0.0000	0.2228	0.2228	90.0	0.0005	-4.4890	4.4890	-90.0
	0.10	0.0004	0.4568	0.4568	90.0	0.0019	-1.1891	2.1891	-90.0
	0.15	0.0022	0.7159	0.7159	89.8	0.0043	-1.3968	1.3968	-89.8
	0.20	0.0082	1.0206	1.0207	89.5	0.0079	-0.9797	0.9798	-89.5
	0.25	0.0257	1.4063	1.4066	89.0	0.0130	-0.7108	0.7109	-89.0
	0.30	0.0762	1.9439	1.9454	87.8	0.0201	-0.5137	0.5140	-87.8
	0.35	0.2381	2.8013	2.8114	85.1	0.0301	-0.3544	0.3557	-85.1
	0.40	0.9194	4.4625	4.5562	78.4	0.0443	-0.2150	0.2195	-78.4
	0.45	5.8323	7.4593	9.4688	52.0	0.0651	-0.0832	0.1056	-52.0
	0.50	8.0654	-4.2465	9.1150	-27.8	0.0971	0.0511	0.1097	27.8
	0.55	2.4105	-3.1967	4.0037	-53.0	0.1504	0.1994	0.2498	53.0
	0.60	1.2207	-1.8433	2.2108	-56.5	0.2498	0.3771	0.4523	56.5
	0.65	0.8102	-1.0361	1.3153	-52.0	0.4683	0.5989	0.7603	52.0
	0.70	0.6249	-0.4571	0.7742	-36.2	1.0425	0.7625	1.2916	36.2
	0.75	0.5398	0.0430	0.5415	4.5	1.8410	-0.1465	1.8468	-4.5
	0.80	0.5324	0.5630	0.7749	46.6	0.8867	-0.9376	1.2905	-46.6
	0.85	0.6618	1.2245	1.3919	61.6	0.3416	-0.6320	0.7184	-61.6
	0.90	1.2827	2.2376	2.5792	60.2	0.1928	-0.3364	0.3877	-60.2
	0.95	4.2303	2.6798	0.0077	32.4	0.1687	-0.1069	0.1997	-32.4
	1.00	4.0442	-1.8001	4.4267	-24.0	0.2064	0.0919	0.2259	24.0
	1.05	1.7707	-1.6374	2.4118	-42.8	0.3044	0.2815	0.4146	42.8
	1.10	1.0778	-1.0045	1.4733	-43.0	0.4965	0.4627	0.6787	43.0
	1.15	0.8068	-0.5433	0.9727	-34.0	0.8528	0.5742	1.0281	34.0
	1.20	0.6778	-0.1829	0.7020	-15.1	1.3753	0.3711	1.4245	15.1
	1.25	0.6161	0.1337	0.6304	12.2	1.5502	-0.3363	1.5863	-12.2
	1.30	0.6056	0.4466	0.7524	36.4	1.0697	-0.7887	1.3290	-36.4
	1.35	0.6741	0.7967	1.0436	49.8	0.6189	-0.7315	0.9582	-49.8
	1.40	0.9763	1.2065	1.5521	51.0	0.4053	-0.5009	0.6443	-51.0
	1.45	1.8686	1.0708	2.1536	29.8	0.4029	-0.2309	0.4643	-29.8
	1.50	1.4185	0.1312	1.4246	5.3	0.6990	-0.0647	0.7020	-5.3
	1.55	0.8235	0.4172	0.9231	26.9	0.9663	-0.4896	1.0833	-26.9
	1.60	0.6368	0.8231	1.0407	52.3	0.5879	-0.7600	0.9609	-52.3
	1.65	0.5849	1.2238	1.3564	64.5	0.3179	-0.6652	0.7372	-64.5
	1.70	0.6052	1.6650	1.7716	70.0	0.1928	-0.5305	0.5645	-70.0
	1.75	0.7097	2.2110	2.3221	72.2	0.1316	-0.4100	0.4306	-72.2
	1.80	0.9874	2.9620	3.1222	71.6	0.1013	-0.3038	0.3203	-71.6
	1.85	1.7577	4.0776	4.4403	66.7	0.0891	-0.2068	0.2252	-66.7
	1.90	4.2511	5.3773	6.8547	51.7	0.0905	-0.1144	0.1459	-51.7
	1.95	9.1269	2.0159	9.3469	12.5	0.1045	-0.0231	0.1070	-12.5
	2.00	5.8700	-3.0971	6.6369	-27.8	0.1334	0.0703	0.1507	27.8
	2.05	2.9669	-2.7313	4.0326	-42.6	0.1824	0.1680	0.2480	42.6
	2.10	1.8519	-1.8995	2.6528	-45.7	0.2631	0.2699	0.3770	45.7

C) SOURCE L/4 OFF CENTER L/(LAMBDA)	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0000	0.1856	0.1856	90.0	0.0005	-5.3880	5.3880	-90.0
0.10	0.0003	0.3787	0.3787	90.0	0.0018	-2.6407	2.6407	-90.0
0.15	0.0014	0.5884	0.5884	89.9	0.0042	-1.6995	1.6995	-89.9
0.20	0.0054	0.8279	0.8280	89.6	0.0079	-1.2078	1.2078	-89.6
0.25	0.0168	1.1199	1.1200	89.1	0.0134	-0.8928	0.8929	-89.1
0.30	0.0493	1.5085	1.5093	88.1	0.0217	-0.6622	0.6626	-88.1
0.35	0.1522	2.0979	2.1034	85.9	0.0344	-0.4742	0.4754	-85.9
0.40	0.5792	3.1846	3.2369	79.7	0.0553	-0.3040	0.3089	-79.7
0.45	3.6160	5.0754	6.2318	54.5	0.0931	-0.1307	0.1605	-54.5
0.50	4.9176	-2.0452	5.3259	-22.6	0.1734	0.0721	0.1878	22.6
0.55	1.4477	-1.2614	1.9201	-41.1	0.3927	0.3421	0.5208	41.1
0.60	0.7269	-0.2961	0.7849	-22.2	1.1800	0.4806	1.2741	22.2
0.65	0.4867	0.3602	0.6055	36.5	1.3274	-0.9826	1.6515	-36.5
0.70	0.3936	0.9233	1.0037	66.9	0.3907	-0.9165	0.9963	-66.9
0.75	0.3841	1.5161	1.5640	75.8	0.1570	-0.6198	0.6394	-75.8
0.80	0.4799	2.2609	2.3113	78.0	0.0898	-0.4232	0.4327	-78.0
0.85	0.8368	3.3677	3.4701	76.0	0.0695	-0.2797	0.2882	-76.0
0.90	2.2230	5.2403	5.6923	67.0	0.0686	-0.1617	0.1757	-67.0
0.95	8.4720	5.8493	10.2951	34.6	0.0799	-0.0552	0.0971	-34.6
1.00	7.9188	-3.7583	8.7653	-25.4	0.1031	0.0489	0.1141	25.4
1.05	3.1486	-3.4931	4.7027	-48.0	0.1424	0.1580	0.2126	48.0
1.10	1.7188	-2.2890	2.8625	-53.1	0.2098	0.2794	0.3493	53.1
1.15	1.1652	-1.4533	1.8628	-51.3	0.3358	0.4188	0.5368	51.3
1.20	0.9014	-0.8255	1.2222	-42.5	0.6034	0.5526	0.8182	42.5
1.25	0.7728	-0.2790	0.8216	-19.8	1.1448	0.4133	1.2171	19.8
1.30	0.7497	0.2839	0.8016	20.7	1.1666	-0.4418	1.2475	-20.7
1.35	0.9088	0.9823	1.3382	47.2	0.5074	-0.5485	0.7473	-47.2
1.40	1.6888	1.9425	2.5740	49.0	0.2549	-0.2932	0.3885	-49.0
1.45	4.3925	1.5981	4.6742	20.0	0.2010	-0.0731	0.2139	-20.0
1.50	3.6477	-1.7080	4.0278	-25.1	0.2248	0.1053	0.2483	25.1
1.55	1.9063	-1.6629	2.5297	-41.1	0.2979	0.2599	0.3953	41.1
1.60	1.2578	-1.1827	1.7265	-43.2	0.4220	0.3968	0.5792	43.2
1.65	0.9718	-0.8019	1.2600	-39.5	0.6122	0.5051	0.7937	39.5
1.70	0.8196	-0.5049	0.9626	-31.6	0.8844	0.5449	1.0388	31.6
1.75	0.7280	-0.2599	0.7730	-19.6	1.2183	0.4349	1.2936	19.6
1.80	0.6692	-0.0467	0.6708	-4.0	1.4870	0.1037	1.4906	4.0
1.85	0.6311	0.1466	0.6479	13.1	1.5034	-0.3491	1.5434	-13.1
1.90	0.6073	0.3238	0.6882	28.1	1.2822	-0.6837	1.4531	-28.1
1.95	0.5759	0.4874	0.7545	40.2	1.0117	-0.8562	1.3254	-40.2
2.00	0.5429	0.6861	0.8749	51.6	0.7093	-0.8963	1.1430	-51.6
2.05	0.5404	0.8964	1.0467	58.9	0.4932	-0.8182	0.9554	-58.9
2.10	0.5517	1.1193	1.2479	63.8	0.3543	-0.7188	0.8013	-63.8

D) SOURCE 3L/8 OFF CENTER L/(LAMBDA)	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0000	0.1202	0.1202	90.0	0.0005	-8.3169	8.3169	-90.0
0.10	0.0001	0.2433	0.2433	90.0	0.0017	-4.1100	4.1100	-90.0
0.15	0.0006	0.3726	0.3726	89.9	0.0040	-2.6839	2.6839	-89.9
0.20	0.0020	0.5128	0.5128	89.8	0.0077	-1.9499	1.9499	-89.8
0.25	0.0062	0.6719	0.6719	89.5	0.0137	-1.4882	1.4882	-89.5
0.30	0.0178	0.8649	0.8651	88.8	0.0238	-1.1558	1.1560	-88.8
0.35	0.0537	1.1264	1.1277	87.3	0.0422	-0.8858	0.8868	-87.3
0.40	0.1992	1.5536	1.5663	82.7	0.0812	-0.6333	0.6384	-82.7
0.45	1.2099	2.2358	2.5422	61.6	0.1872	-0.3460	0.3934	-61.6
0.50	1.5987	-0.0378	1.5991	-1.4	0.6252	0.0148	0.6254	1.4
0.55	0.4586	0.3289	0.5644	35.6	1.4398	-1.0327	1.7719	-35.6
0.60	0.2271	0.7502	0.7838	73.2	0.3697	-1.2211	1.2758	-73.2
0.65	0.1545	1.0807	1.0917	81.9	0.1296	-0.9068	0.9160	-81.9
0.70	0.1340	1.3996	1.4060	84.5	0.0678	-0.7080	0.7112	-84.5
0.75	0.1503	1.7586	1.7650	85.1	0.0482	-0.5645	0.5666	-85.1
0.80	0.2239	2.2188	2.2300	84.2	0.0450	-0.4462	0.4484	-84.2
0.85	0.4495	2.8928	2.9275	81.2	0.0525	-0.3375	0.3416	-81.2
0.90	1.2711	3.9938	4.1912	72.3	0.0724	-0.2274	0.2386	-72.3
0.95	4.8200	4.3010	6.4599	41.7	0.1155	-0.1031	0.1548	-41.7
1.00	4.3252	-1.0265	4.4453	-13.4	0.2189	0.0519	0.2250	13.4
1.05	1.6350	-0.6665	1.7656	-22.2	0.5245	0.2138	0.5664	-22.2
1.10	0.8570	0.1876	0.8773	12.3	1.1134	-0.2437	1.1398	-12.3
1.15	0.5759	0.8533	1.0295	56.0	0.5434	-0.8052	0.9714	-56.0
1.20	0.4706	1.4500	1.5245	72.0	0.2025	-0.6239	0.6559	-72.0
1.25	0.4748	2.0832	2.1366	77.2	0.1040	-0.4563	0.4680	-77.2
1.30	0.6228	2.8678	2.9347	77.7	0.0723	-0.3330	0.3408	-77.7
1.35	1.1223	3.9855	4.1405	74.3	0.0655	-0.2325	0.2415	-74.3
1.40	2.8937	5.5910	6.2954	62.6	0.0730	-0.1411	0.1588	-62.6
1.45	8.3023	4.2974	9.3485	27.4	0.0950	-0.0492	0.1070	-27.4
1.50	6.2592	-2.3258	6.6774	-20.4	0.1404	0.0522	0.1498	20.4
1.55	2.7756	-1.9878	3.4140	-35.6	0.2381	0.1705	0.2929	-35.6
1.60	1.5677	-0.9074	1.8113	-30.1	0.4778	0.2766	0.5521	-30.1
1.65	1.0824	-0.0233	1.0826	-1.2	0.9235	0.0199	0.9237	1.2
1.70	0.8774	0.7612	1.1615	40.9	0.6503	-0.5642	0.8609	-40.9
1.75	0.8475	1.5729	1.7867	61.7	0.2655	-0.4927	0.5597	-61.7
1.80	1.0401	2.5559	2.7594	67.9	0.1366	-0.2357	0.3624	-67.9
1.85	1.7697	3.9094	4.2913	65.6	0.0961	-0.2123	0.2330	-65.6
1.90	4.3382	5.4915	6.9983	51.7	0.0886	-0.1121	0.1429	-51.7
1.95	9.5826	2.1894	9.8296	12.9	0.0992	-0.0227	0.1017	-12.9
2.00	6.2558	-3.2100	7.0313	-27.2	0.1265	0.0649	0.1422	27.2
2.05	3.1513	-2.7753	4.1992	-41.4	0.1787	0.1574	0.2381	-41.4
2.10	1.9403	-1.7736	2.6288	-42.4	0.2808	0.2567	0.3804	-42.4

Set VII (L/2A = 1000) Table E

E) SOURCE L/4 OFF CENTER, Y=C AT CENTER	B	G	MAG Y	ANG Y	R	X	MAG Z	ANG Z
L/(LAMBDA)								
0.05	0.0000	0.1333	0.1333	90.0	0.0002	-7.5011	7.5011	-90.0
0.10	0.0000	0.2684	0.2684	90.0	0.0006	-3.7255	3.7255	-90.0
0.15	0.0002	0.4072	0.4072	90.0	0.0012	-2.4557	2.4557	-90.0
0.20	0.0007	0.5518	0.5518	89.9	0.0021	-1.8122	1.8122	-89.9
0.25	0.0017	0.7047	0.7047	89.9	0.0034	-1.4191	1.4191	-89.9
0.30	0.0037	0.8688	0.8688	89.8	0.0049	-1.1510	1.1510	-89.8
0.35	0.0074	1.0481	1.0481	89.6	0.0068	-0.9541	0.9541	-89.6
0.40	0.0141	1.2474	1.2475	89.4	0.0091	-0.8015	0.8016	-89.4
0.45	0.0257	1.4738	1.4740	89.0	0.0118	-0.6783	0.6784	-89.0
0.50	0.0455	1.7366	1.7372	88.5	0.0151	-0.5754	0.5756	-88.5
0.55	0.0798	2.0499	2.0514	87.8	0.0190	-0.4871	0.4875	-87.8
0.60	0.1400	2.4343	2.4383	86.7	0.0236	-0.4094	0.4101	-86.7
0.65	0.2494	2.9216	2.9323	85.1	0.0290	-0.3398	0.3410	-85.1
0.70	0.4578	3.5609	3.5902	82.7	0.0355	-0.2763	0.2785	-82.7
0.75	0.8815	4.4211	4.5081	78.7	0.0434	-0.2175	0.2218	-78.7
0.80	1.8017	5.5483	5.8335	72.0	0.0529	-0.1630	0.1714	-72.0
0.85	3.7770	6.6712	7.6662	60.5	0.0643	-0.1135	0.1304	-60.5
0.90	6.9751	6.8144	9.7513	44.3	0.0734	-0.0717	0.1026	-44.3
0.95	12.7863	4.8817	13.6866	20.9	0.0683	-0.0261	0.0731	-20.9
1.00	10.7818	-5.6717	12.1826	-27.7	0.0726	0.0382	0.0821	27.7
1.05	5.0222	-5.4871	7.4384	-47.5	0.0908	0.0992	0.1344	47.5
1.10	3.0215	-4.1859	5.1624	-54.2	0.1134	0.1571	0.1937	54.2
1.15	2.1243	-3.2666	3.8965	-57.0	0.1399	0.2151	0.2566	57.0
1.20	1.6336	-2.6159	3.0840	-58.0	0.1718	0.2750	0.3243	58.0
1.25	1.3307	-2.1308	2.5121	-58.0	0.2109	0.3376	0.3981	58.0
1.30	1.1282	-1.7518	2.0837	-57.2	0.2599	0.4035	0.4799	57.2
1.35	0.9851	-1.4441	1.7481	-55.7	0.3224	0.4726	0.5720	55.7
1.40	0.8797	-1.1861	1.4767	-53.4	0.4034	0.5439	0.6772	53.4
1.45	0.7996	-0.9639	1.2524	-50.3	0.5098	0.6146	0.7985	50.3
1.50	0.7373	-0.7681	1.0646	-46.2	0.6504	0.6776	0.9393	46.2
1.55	0.6880	-0.5920	0.9077	-40.7	0.8351	0.7186	1.1017	40.7
1.60	0.6488	-0.4310	0.7789	-33.6	1.0694	0.7104	1.2838	33.6
1.65	0.6175	-0.2816	0.6787	-24.5	1.3406	0.6113	1.4734	24.5
1.70	0.5928	-0.1415	0.6095	-13.4	1.5960	0.3809	1.6408	13.4
1.75	0.5734	-0.0092	0.5735	-0.9	1.7435	0.0281	1.7437	0.9
1.80	0.5573	0.1158	0.5692	11.7	1.7200	-0.3575	1.7567	-11.7
1.85	0.5414	0.2355	0.5905	23.5	1.5530	-0.6756	1.6936	-23.5
1.90	0.5250	0.3522	0.6322	33.9	1.3136	-0.8813	1.5818	-33.9
1.95	0.4951	0.4647	0.6790	43.2	1.0738	-1.0078	1.4727	-43.2
2.00	0.4616	0.6128	0.7672	53.0	0.7842	-1.0411	1.3034	-53.0
2.05	0.4549	0.7656	0.8905	59.3	0.5736	-0.9653	1.1229	-59.3
2.10	0.4551	0.9167	1.0235	63.6	0.4345	-0.8751	0.9771	-63.6

Set VII ($L/2A = 1000$) Table F

F)	SOURCE	L/4 OFF CENTER,	B	MAG Y	ANG Y	CDT(KL/4)	MHUS	AT CENTER	X	MAG Z	ANG Z
L/(LAMBDA)	G						R				
0.05	0.0000	0.1862	0.1862	0.1862	90.0	0.0005	0.0005	-5.3711	5.3711	-90.0	
0.10	0.0003	0.3840	0.3840	0.3840	90.0	0.0019	0.0019	-2.6042	2.6042	-90.0	
0.15	0.0017	0.6106	0.6106	0.6106	89.8	0.0045	0.0045	-1.6377	1.6377	-89.8	
0.20	0.0075	0.9021	0.9021	0.9021	89.5	0.0092	0.0092	-1.1085	1.1085	-89.5	
0.25	0.0335	1.3677	1.3681	1.3681	88.6	0.0179	0.0179	-0.7307	0.7309	-88.6	
0.30	0.2613	2.6340	2.6469	2.6469	84.3	0.0373	0.0373	-0.3760	0.3778	-84.3	
0.35	3.4188	-4.6522	5.7733	5.7733	-53.7	0.1026	0.1026	0.1396	0.1732	53.7	
0.40	0.1673	-0.3681	0.4044	0.4044	-65.6	1.0230	1.0230	2.2516	2.4731	65.6	
0.45	0.0506	0.4073	0.4104	0.4104	82.9	0.3003	0.3003	-2.4180	2.4365	-82.9	
0.50	0.0209	0.8495	0.8498	0.8498	88.6	0.0289	0.0289	-1.1764	1.1768	-88.6	
0.55	0.0115	1.2230	1.2230	1.2230	89.5	0.0077	0.0077	-0.8176	0.8176	-89.5	
0.60	0.0148	1.6045	1.6045	1.6045	89.5	0.0057	0.0057	-0.6232	0.6232	-89.5	
0.65	0.0351	2.0416	2.0419	2.0419	89.0	0.0084	0.0084	-0.4897	0.4897	-89.0	
0.70	0.0884	2.5884	2.5899	2.5899	88.0	0.0132	0.0132	-0.3859	0.3861	-88.0	
0.75	0.2172	3.3309	3.3379	3.3379	86.3	0.0195	0.0195	-0.2990	0.2996	-86.3	
0.80	0.5468	4.4310	4.4646	4.4646	83.0	0.0274	0.0274	-0.2223	0.2240	-83.0	
0.85	1.5213	6.1930	6.3771	6.3771	76.2	0.0374	0.0374	-0.1523	0.1568	-76.2	
0.90	4.9280	8.6167	9.9264	9.9264	60.2	0.0500	0.0500	-0.0875	0.1007	-60.2	
0.95	13.4687	6.1255	14.7962	14.7962	24.5	0.0615	0.0615	-0.0280	0.0676	-24.5	
1.00	10.7818	-5.6717	12.1826	12.1826	-27.7	0.0726	0.0726	0.0382	0.0821	27.7	
1.05	4.6595	-5.3332	7.0819	7.0819	-48.9	0.0929	0.0929	0.1063	0.1412	48.9	
1.10	2.6503	-3.8880	4.7054	4.7054	-55.7	0.1197	0.1197	0.1756	0.2125	55.7	
1.15	1.8074	-2.9010	3.4180	3.4180	-58.1	0.1547	0.1547	0.2493	0.2926	58.1	
1.20	1.3713	-2.2171	2.6069	2.6069	-58.3	0.2018	0.2018	0.3262	0.3836	58.3	
1.25	1.1143	-1.7096	2.0407	2.0407	-56.9	0.2676	0.2676	0.4105	0.4900	56.9	
1.30	0.9503	-1.3073	1.6162	1.6162	-54.0	0.3638	0.3638	0.5005	0.6187	54.0	
1.35	0.8423	-0.9672	1.2825	1.2825	-48.9	0.5121	0.5121	0.5880	0.7797	48.9	
1.40	0.7751	-0.6596	1.0178	1.0178	-40.4	0.7482	0.7482	0.6368	0.9825	40.4	
1.45	0.7499	-0.3586	0.8312	0.8312	-25.6	1.0853	1.0853	0.5189	1.2030	25.6	
1.50	0.7974	-0.0363	0.7982	0.7982	-2.6	1.2515	1.2515	0.0570	1.2528	2.6	
1.55	1.0395	0.3033	1.0828	1.0828	16.3	0.8866	0.8866	-0.2587	0.9235	-16.3	
1.60	1.6584	0.2511	1.6773	1.6773	8.6	0.5895	0.5895	-0.0892	0.5962	-8.6	
1.65	1.5557	-0.4523	1.6201	1.6201	-16.2	0.5927	0.5927	0.1723	0.6172	16.2	
1.70	1.0538	-0.4568	1.1485	1.1485	-23.4	0.7988	0.7988	0.3463	0.8707	23.4	
1.75	0.8133	-0.2442	0.8492	0.8492	-16.7	1.1278	1.1278	0.3386	1.1776	16.7	
1.80	0.6992	-0.0344	0.7001	0.7001	-2.8	1.4267	1.4267	0.0703	1.4284	2.8	
1.85	0.6393	0.1559	0.6580	0.6580	13.7	1.4764	1.4764	-0.3601	1.5197	-13.7	
1.90	0.6069	0.3292	0.6905	0.6905	28.5	1.2731	1.2731	-0.6906	1.4483	-28.5	
1.95	0.5735	0.4891	0.7538	0.7538	40.5	1.0094	1.0094	-0.8609	1.3267	-40.5	
2.00	0.4616	0.6128	0.7672	0.7672	53.0	0.7842	0.7842	-1.0411	1.3034	-53.0	
2.05	0.5483	0.9000	1.0538	1.0538	58.6	0.4937	0.4937	-0.8104	0.9489	-58.6	
2.10	0.5789	1.1387	1.2774	1.2774	63.0	0.3548	0.3548	-0.6978	0.7829	-63.0	

Set VII ($L/2A = 1000$) Table G

G)	SOURCE	L/4 OFF CENTER, L/(λBDA)	S	B	MAG Y	ANG Y	Y=(-J/300)COT(KL/4) PHOS	AT CENTER	X	MAG Z	ANG Z
0.05			0.0000	0.1859	0.1859	90.0	0.0005	-5.3796	-5.3796	5.3796	-90.0
0.10			0.0003	0.3813	0.3813	90.0	0.0018	-2.6227	-2.6227	2.6227	-90.0
0.15			0.0016	0.5989	0.5989	89.9	0.0043	-1.6698	-1.6698	1.6698	-89.9
0.20			0.0063	0.8606	0.8606	89.6	0.0085	-1.1619	-1.1619	1.1619	-89.6
0.25			0.0226	1.2153	1.2155	88.9	0.0152	-0.8227	-0.8227	0.8227	-88.9
0.30			0.0892	1.8089	1.8111	87.2	0.0272	-0.5522	-0.5522	0.5522	-87.2
0.35			0.6037	3.3730	3.4316	79.9	0.0513	-0.2869	-0.2869	0.2914	-79.9
0.40			6.8340	-3.5224	7.6884	-27.3	0.1156	0.0596	0.0596	0.1301	27.3
0.45			0.5109	-0.9351	1.0656	-61.4	0.4499	0.8236	0.8236	0.9385	61.4
0.50			0.1736	0.1152	0.2083	33.6	4.0007	-2.6544	-2.6544	4.8012	-33.6
0.55			0.0867	0.6792	0.6847	82.7	0.1849	-1.4487	-1.4487	1.4604	-82.7
0.60			0.0526	1.1315	1.1327	87.3	0.0410	-0.8819	-0.8819	0.8828	-87.3
0.65			0.0428	1.5835	1.5841	88.5	0.0171	-0.6311	-0.6311	0.6313	-88.5
0.70			0.0583	2.1050	2.1058	88.4	0.0131	-0.4747	-0.4747	0.4749	-88.4
0.75			0.1212	2.7800	2.7826	87.5	0.0157	-0.3590	-0.3590	0.3594	-87.5
0.80			0.3051	3.7582	3.7706	85.4	0.0215	-0.2643	-0.2643	0.2652	-85.4
0.85			0.8835	5.3677	5.4399	80.7	0.0299	-0.1814	-0.1814	0.1838	-80.7
0.90			3.2305	8.2602	8.8694	68.6	0.0411	-0.1050	-0.1050	0.1127	-68.6
0.95			13.3013	7.7867	15.4129	30.3	0.0560	-0.0328	-0.0328	0.0649	-30.3
1.00			10.7818	-5.6717	12.1828	-27.7	0.0726	0.0382	0.0382	0.0821	27.7
1.05			4.3969	-5.1830	6.7968	-49.7	0.0952	0.1122	0.1122	0.1471	-49.7
1.10			2.4281	-3.6590	4.3913	-56.4	0.1257	0.1897	0.1897	0.2277	-56.4
1.15			1.6355	-2.6509	3.1148	-58.3	0.1586	0.2732	0.2732	0.3210	-58.3
1.20			1.2364	-1.9586	2.3162	-57.7	0.2305	0.3651	0.3651	0.4317	-57.7
1.25			1.0065	-1.4404	1.7572	-55.1	0.3260	0.4665	0.4665	0.5691	-55.1
1.30			0.8652	-1.0174	1.3355	-49.6	0.4851	0.5704	0.5704	0.7488	-49.6
1.35			0.7820	-0.6391	1.0100	-39.3	0.7667	0.6266	0.6266	0.9901	-39.3
1.40			0.7556	-0.2624	0.7999	-19.1	1.1610	0.4101	0.4101	1.2501	-19.1
1.45			0.8313	0.1635	0.8473	11.1	1.1581	-0.2278	-0.2278	1.1802	11.1
1.50			1.2180	0.6614	1.3859	28.5	0.6341	-0.3443	-0.3443	0.7215	-28.5
1.55			2.3327	0.5022	2.3862	12.1	0.4097	-0.0882	-0.0882	0.4191	-12.1
1.60			2.0577	-0.7948	2.2059	-21.1	0.4229	0.1633	0.1633	0.4533	21.1
1.65			1.2637	-0.7851	1.4877	-31.9	0.5710	0.3547	0.3547	0.6722	-31.9
1.70			0.9255	-0.5083	1.0559	-28.8	0.8301	0.4559	0.4559	0.9471	-28.8
1.75			0.7688	-0.2578	0.8109	-13.5	1.1693	0.3920	0.3920	1.2333	-13.5
1.80			0.6843	-0.0418	0.6856	-3.5	1.4558	0.0890	0.0890	1.4585	3.5
1.85			0.6354	0.1510	0.6531	13.4	1.4896	-0.3541	-0.3541	1.5311	-13.4
1.90			0.6072	0.3265	0.6894	28.3	1.2775	-0.5871	-0.5871	1.4505	-28.3
1.95			0.5747	0.4883	0.7541	40.4	1.0105	-0.8586	-0.8586	1.3260	-40.4
2.00			0.4616	0.6128	0.7672	53.0	0.7842	-1.0411	-1.0411	1.3034	-53.0
2.05			0.5442	0.8982	1.0592	58.8	0.4934	-0.8144	-0.8144	0.9522	-58.8
2.10			0.5642	1.1288	1.2620	63.4	0.3543	-0.7088	-0.7088	0.7924	-63.4

H)	SOURCE L/4 OFF CENTER, L/(LAMBDA)	G	B	MAG Y	Y=(-J/100)COT(NL/4)	ANG Y	R	MHOS	AT CENTER	X	MAG Z	ANG Z
0.05	0.0000	0.1857	0.1857	0.1857	90.0	90.0	0.0005	-5.3852	5.3852	-90.0	5.3852	-90.0
0.10	0.0003	0.3795	0.3795	0.3795	90.0	90.0	0.0018	-2.6348	2.6348	-90.0	2.6348	-90.0
0.15	0.0015	0.5918	0.5918	0.5918	89.9	89.9	0.0042	-1.6899	1.6899	-89.9	1.6899	-89.9
0.20	0.0057	0.8380	0.8380	0.8381	89.6	89.6	0.0081	-1.1932	1.1932	-89.6	1.1932	-89.6
0.25	0.0184	1.1474	1.1474	1.1476	89.1	89.1	0.0140	-0.8713	0.8714	-89.1	0.8714	-89.1
0.30	0.0583	1.5848	1.5848	1.5859	87.9	87.9	0.0232	-0.6301	0.6306	-87.9	0.6306	-87.9
0.35	0.2119	2.3358	2.3358	2.3454	84.8	84.8	0.0385	-0.4246	0.4264	-84.8	0.4264	-84.8
0.40	1.2398	4.1243	4.1243	4.3066	73.3	73.3	0.0668	-0.2224	0.2322	-73.3	0.2322	-73.3
0.45	7.5538	-1.0583	-1.0583	7.6275	-8.0	-8.0	0.1298	0.0182	0.1311	8.0	0.1311	8.0
0.50	1.2610	-1.5031	-1.5031	1.9620	-50.0	-50.0	0.3276	0.3905	0.5097	50.0	0.5097	50.0
0.55	0.4867	-0.2879	-0.2879	0.5655	-30.6	-30.6	1.5219	0.9003	1.7682	30.6	1.7682	30.6
0.60	0.2782	0.3949	0.3949	0.4830	54.8	54.8	1.1922	-1.6925	2.0702	-54.8	2.0702	-54.8
0.65	0.1951	0.9285	0.9285	0.9488	78.1	78.1	0.2167	-1.0314	1.0539	-78.1	1.0539	-78.1
0.70	0.1654	1.4533	1.4533	1.4627	83.5	83.5	0.0773	-0.6793	0.6837	-83.5	0.6837	-83.5
0.75	0.1832	2.0651	2.0651	2.0732	84.9	84.9	0.0426	-0.4805	0.4823	-84.9	0.4823	-84.9
0.80	0.2885	2.8911	2.8911	2.9054	84.3	84.3	0.0342	-0.3425	0.3442	-84.3	0.3442	-84.3
0.85	0.6496	4.1859	4.1859	4.2360	81.2	81.2	0.0362	-0.2333	0.2361	-81.2	0.2361	-81.2
0.90	2.0872	6.5276	6.5276	6.8531	72.3	72.3	0.0444	-0.1390	0.1459	-72.3	0.1459	-72.3
0.95	9.3465	8.7763	8.7763	12.8211	43.2	43.2	0.0569	-0.0534	0.0780	-43.2	0.0780	-43.2
1.00	10.7818	-5.6717	-5.6717	12.1826	-27.7	-27.7	0.0726	0.0382	0.0821	27.7	0.0821	27.7
1.05	3.8439	-4.7241	-4.7241	6.0904	-50.9	-50.9	0.1036	0.1274	0.1642	50.9	0.1642	50.9
1.10	2.0587	-3.1434	-3.1434	3.7576	-56.8	-56.8	0.1458	0.2226	0.2661	56.8	0.2661	56.8
1.15	1.3773	-2.1533	-2.1533	2.5561	-57.4	-57.4	0.2108	0.3296	0.3912	57.4	0.3912	57.4
1.20	1.0448	-1.4703	-1.4703	1.8037	-54.6	-54.6	0.3211	0.4519	0.5544	54.6	0.5544	54.6
1.25	0.8616	-0.9371	-0.9371	1.2729	-47.4	-47.4	0.5317	0.5783	0.7856	47.4	0.7856	47.4
1.30	0.7645	-0.4633	-0.4633	0.8939	-31.2	-31.2	0.9567	0.5798	1.1187	31.2	1.1187	31.2
1.35	0.7487	0.0244	0.0244	0.7491	1.9	1.9	1.3342	-0.0434	1.3349	-1.9	1.3349	-1.9
1.40	0.8929	0.6182	0.6182	1.0860	34.7	34.7	0.7571	-0.5241	0.9208	34.7	0.9208	34.7
1.45	1.6002	1.3717	1.3717	2.1077	40.6	40.6	0.3602	-0.3088	0.4745	-40.6	0.4745	-40.6
1.50	3.5866	0.6932	0.6932	3.6529	10.9	10.9	0.2688	-0.0519	0.2738	-10.9	0.2738	-10.9
1.55	2.6125	-1.3541	-1.3541	2.9426	-27.4	-27.4	0.3017	0.1564	0.3398	27.4	0.3398	27.4
1.60	1.4882	-1.1898	-1.1898	1.9053	-38.6	-38.6	0.4099	0.3277	0.5248	38.6	0.5248	38.6
1.65	1.0526	-0.8156	-0.8156	1.3316	-37.8	-37.8	0.5936	0.4600	0.7510	37.8	0.7510	37.8
1.70	0.8513	-0.5099	-0.5099	0.9923	-30.9	-30.9	0.8645	0.5179	1.0077	30.9	1.0077	30.9
1.75	0.7410	-0.2602	-0.2602	0.7854	-19.4	-19.4	1.2013	0.4219	1.2733	19.4	1.2733	19.4
1.80	0.6743	-0.0453	-0.0453	0.6758	-3.8	-3.8	1.4764	0.0993	1.4793	3.8	1.4793	3.8
1.85	0.6326	0.1480	0.1480	0.6497	13.2	13.2	1.4987	-0.3506	1.5392	-13.2	1.5392	-13.2
1.90	0.6073	0.3247	0.3247	0.6886	28.1	28.1	1.2806	-0.6848	1.4522	28.1	1.4522	28.1
1.95	0.5755	0.4877	0.4877	0.7544	40.3	40.3	1.0113	-0.8570	1.3256	-40.3	1.3256	-40.3
2.00	0.4616	0.6128	0.6128	0.7672	53.0	53.0	0.7842	-1.0411	1.3034	53.0	1.3034	53.0
2.05	0.5416	0.8970	0.8970	1.0479	58.9	58.9	0.4933	-0.8169	0.9543	-58.9	0.9543	-58.9
2.10	0.5556	1.1224	1.1224	1.2524	63.7	63.7	0.3542	-0.7156	0.7984	63.7	0.7984	63.7

Set VII ($L/2A = 1000$) Table I

1) SOURCE L/4 OFF CENTER, 3ROUND PLANE AT CENTER											
L/(LAMBDA)	G	B	MAG Y		ANG Y	R		X	MAG Z	ANG Z	
0.05	0.0000	0.2423	0.2423	90.0	0.0005	-4.1267	0.0005	4.1267	-90.0		
0.10	0.0005	0.4982	0.4982	9.9	0.0021	-2.0074	0.0021	2.0074	-89.9		
0.15	0.0029	0.7841	0.7841	89.8	0.0047	-1.2753	0.0047	1.2753	-89.8		
0.20	0.0108	1.1250	1.1251	89.5	0.0085	-0.8888	0.0085	0.8888	-89.5		
0.25	0.0335	1.5638	1.5641	88.8	0.0137	-0.6392	0.0137	0.6392	-88.8		
0.30	0.0983	2.1866	2.1888	87.4	0.0205	-0.4564	0.0205	0.4564	-87.4		
0.35	0.3036	3.1985	3.2128	84.6	0.0294	-0.3099	0.0294	0.3113	-84.6		
0.40	1.1568	5.1884	5.3158	77.4	0.0409	-0.1836	0.0409	0.1881	-77.4		
0.45	7.2284	8.7642	11.3605	50.5	0.0560	-0.0679	0.0560	0.0880	-50.5		
0.50	9.8278	-5.7127	11.3675	-30.2	0.0761	0.0442	0.0761	0.0880	30.2		
0.55	2.8806	-4.4223	5.2777	-56.9	0.1034	0.1508	0.1034	0.1895	-56.9		
0.60	1.4249	-2.8275	3.1662	-63.3	0.1421	0.2820	0.1421	0.3158	-63.3		
0.65	0.9167	-1.9371	2.1430	-64.7	0.1996	0.4218	0.1996	0.4666	-64.7		
0.70	0.6747	-1.3663	1.5238	-63.7	0.2906	0.5884	0.2906	0.6563	-63.7		
0.75	0.5367	-0.9550	1.0954	-60.7	0.4472	0.7958	0.4472	0.9129	-60.7		
0.80	0.4484	-0.6310	0.7741	-54.6	0.7482	1.0530	0.7482	1.2918	-54.6		
0.85	0.3872	-0.3576	0.5271	-42.7	1.3939	1.2871	1.3939	1.8973	-42.7		
0.90	0.3424	-0.1128	0.3605	-18.2	2.6343	0.8681	2.6343	2.7736	-18.2		
0.95	0.3084	0.1176	0.3301	20.9	2.8305	-1.0795	2.8305	3.0295	20.9		
1.00	0.2823	0.3452	0.4459	50.7	1.4196	-1.7358	1.4196	2.2424	-50.7		
1.05	0.2630	0.5805	0.6373	65.6	0.6474	-1.4293	0.6474	1.5691	-65.6		
1.10	0.2508	0.8358	0.8726	73.3	0.3294	-1.0976	0.3294	1.1460	-73.3		
1.15	0.2487	1.1275	1.1546	77.6	0.1866	-0.8458	0.1866	0.8661	-77.6		
1.20	0.2645	1.4813	1.5047	79.9	0.1168	-0.6542	0.1168	0.6546	-79.9		
1.25	0.3185	1.9423	1.9682	80.7	0.0822	-0.5014	0.0822	0.5081	-80.7		
1.30	0.4695	2.5978	2.6399	79.8	0.0674	-0.3728	0.0674	0.3788	-79.8		
1.35	0.9221	3.6275	3.7428	75.7	0.0658	-0.2589	0.0658	0.2672	-75.7		
1.40	2.5790	5.2495	5.8488	63.8	0.0754	-0.1535	0.0754	0.1710	-63.8		
1.45	8.0588	4.3107	9.1393	28.1	0.0965	-0.0516	0.0965	0.1094	-28.1		
1.50	6.6254	-2.5173	7.0876	-20.8	0.1319	0.0501	0.1319	0.1411	20.8		
1.55	3.1873	-2.6175	4.1243	-39.4	0.1874	0.1539	0.1874	0.2425	-39.4		
1.60	1.9263	-1.8288	2.6561	-43.5	0.2730	0.2592	0.2730	0.3765	-43.5		
1.65	1.3837	-1.2248	1.8479	-41.5	0.4052	0.3587	0.4052	0.5412	-41.5		
1.70	1.1031	-0.7778	1.3498	-35.2	0.6055	0.4269	0.6055	0.7409	-35.2		
1.75	0.9392	-0.4266	1.0316	-24.4	0.8826	0.4009	0.8826	0.9694	-24.4		
1.80	0.8359	-0.1326	0.8463	-9.0	1.1670	0.1851	1.1670	1.1816	9.0		
1.85	0.7681	0.1282	0.7787	9.5	1.2667	-0.2115	1.2667	1.2842	-9.5		
1.90	0.7236	0.3721	0.8137	27.2	1.0930	-0.5621	1.0930	1.2290	-27.2		
1.95	0.6966	0.6114	0.9268	41.3	0.8109	-0.7117	0.8109	1.0789	-41.3		
2.00	0.6849	0.8574	1.0974	51.4	0.5688	-0.7120	0.5688	0.9113	-51.4		
2.05	0.6894	1.1222	1.3170	58.4	0.3975	-0.6469	0.3975	0.7593	-58.4		
2.10	0.7150	1.4211	1.5908	63.3	0.2825	-0.5616	0.2825	0.6286	-63.3		

J) MUTUAL ADMITTANCES OR IMPEDANCES, SOURCE L/4 OFF CENTER,

Y=0 AT CENTER, OUTPUT POINT L/4 FROM CENTER

L/(LAMBDA)	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0000	0.0044	0.0044	90.0	0.1175	-224.9408	224.9408	-90.0
0.10	0.0000	0.0092	0.0092	89.8	0.4293	-108.7248	108.7257	-89.8
0.15	0.0002	0.0146	0.0146	89.3	0.8788	-68.5916	68.5972	-89.3
0.20	0.0006	0.0209	0.0210	88.3	1.3850	-47.7069	47.7270	-88.3
0.25	0.0015	0.0287	0.0288	86.9	1.8704	-34.7126	34.7629	-86.9
0.30	0.0034	0.0384	0.0386	85.0	2.2747	-25.8119	25.9119	-85.0
0.35	0.0067	0.0508	0.0512	82.5	2.5608	-19.3561	19.5248	-82.5
0.40	0.0125	0.0666	0.0678	79.4	2.7127	-14.5037	14.7552	-79.4
0.45	0.0221	0.0872	0.0900	75.8	2.7313	-10.7740	11.1148	-75.8
0.50	0.0382	0.1143	0.1205	71.5	2.6287	-7.8711	8.2985	-71.5
0.55	0.0651	0.1504	0.1639	66.6	2.4241	-5.6009	6.1030	-66.6
0.60	0.1111	0.1989	0.2278	60.8	2.1408	-3.8322	4.3896	-60.8
0.65	0.1927	0.2641	0.3269	53.9	1.8033	-2.4707	3.0588	-53.9
0.70	0.3454	0.3481	0.4903	45.2	1.4365	-1.4478	2.0395	-45.2
0.75	0.6500	0.4340	0.7816	33.7	1.0641	-0.7104	1.2795	-33.7
0.80	1.2902	0.3953	1.3494	17.0	0.7085	-0.2171	0.7411	-17.0
0.85	2.4906	-0.4219	2.5261	-9.6	0.3903	0.0661	0.3959	9.6
0.90	2.8716	-3.7790	4.7462	-52.8	0.1275	0.1678	0.2107	52.8
0.95	-3.8492	-6.6992	7.7263	60.1	-0.0645	0.1122	0.1294	-60.1
1.00	-4.7734	2.1901	5.2518	-24.6	-0.1731	-0.0794	0.1904	24.6
1.05	-1.0120	2.0796	2.3128	-64.1	-0.1852	-0.3888	0.4324	64.1
1.10	-0.1654	1.2278	1.2389	-82.3	-0.1077	-0.7999	0.8072	82.3
1.15	0.0426	0.7676	0.7687	86.8	0.0720	-1.2988	1.3008	-86.8
1.20	0.0953	0.5164	0.5251	79.5	0.3456	-1.8728	1.9044	-79.5
1.25	0.1036	0.3695	0.3837	74.3	0.7034	-2.5093	2.6060	-74.3
1.30	0.0984	0.2782	0.2951	70.5	1.1300	-3.1950	3.3890	-70.5
1.35	0.0897	0.2187	0.2364	67.7	1.6061	-3.9141	4.2308	-67.7
1.40	0.0810	0.1784	0.1960	65.6	2.1096	-4.6467	5.1032	-65.6
1.45	0.0734	0.1505	0.1674	64.0	2.6188	-5.3686	5.9733	-64.0
1.50	0.0672	0.1306	0.1469	62.8	3.1162	-6.0522	6.8073	-62.8
1.55	0.0626	0.1162	0.1320	61.7	3.5916	-6.6686	7.5743	-61.7
1.60	0.0594	0.1056	0.1212	60.6	4.0457	-7.1924	8.2522	-60.6
1.65	0.0576	0.0975	0.1132	59.4	4.4928	-7.6073	8.8349	-59.4
1.70	0.0568	0.0906	0.1070	57.9	4.9660	-7.9187	9.3470	-57.9
1.75	0.0566	0.0840	0.1013	56.0	5.5207	-8.1894	9.8765	-56.0
1.80	0.0549	0.0765	0.0941	54.4	6.1848	-8.6420	10.6272	-54.4
1.85	0.0472	0.0706	0.0850	56.2	6.5406	-9.7805	11.7659	-56.2
1.90	0.0340	0.0767	0.0840	66.1	4.8304	-10.8885	11.9118	-66.1
1.95	0.0399	0.1013	0.1088	68.5	3.3646	-8.5494	9.1876	-68.5
2.00	0.0606	0.0981	0.1153	58.3	4.5597	-7.3757	8.6713	-58.3
2.05	0.0636	0.0949	0.1142	56.2	4.8741	-7.2719	8.7542	-56.2
2.10	0.0667	0.0991	0.1195	56.1	4.6712	-6.9451	8.3698	-56.1

Set VII ($L/2A = 1000$) Table K

V	MONOSTATIC AND BISLATIC ECHO AREAS/($LAMBDA$ SQUARED)	S(A)	S(B)	S(C)	S(D)	S(E)	S(F)	S(G)
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.15	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
0.20	0.00010	0.00009	0.00009	0.00007	0.00005	0.00002	0.00001	0.00008
0.25	0.00048	0.00044	0.00044	0.00035	0.00023	0.00011	0.00003	0.00041
0.30	0.00206	0.00190	0.00190	0.00148	0.00094	0.00045	0.00012	0.00174
0.35	0.00880	0.00807	0.00807	0.00620	0.00389	0.00183	0.00047	0.00736
0.40	0.04456	0.04069	0.04069	0.03085	0.01897	0.00874	0.00220	0.03696
0.45	0.35922	0.32633	0.32633	0.24374	0.14680	0.06621	0.01643	0.29560
0.50	0.61563	0.55599	0.55599	0.40859	0.24053	0.10596	0.02584	0.50352
0.55	0.22322	0.20033	0.20033	0.14468	0.08311	0.03569	0.00854	0.18214
0.60	0.13448	0.11990	0.11990	0.08502	0.04758	0.01989	0.00466	0.11014
0.65	0.10399	0.09209	0.09209	0.06407	0.03491	0.01418	0.00325	0.08635
0.70	0.09094	0.07999	0.07999	0.05459	0.02894	0.01142	0.00256	0.07779
0.75	0.08507	0.07432	0.07432	0.04978	0.02569	0.00985	0.00216	0.07696
0.80	0.08277	0.07185	0.07185	0.04728	0.02378	0.00888	0.00191	0.08284
0.85	0.08245	0.07117	0.07117	0.04609	0.02267	0.00826	0.00174	0.09916
0.90	0.08325	0.07154	0.07154	0.04575	0.02210	0.00791	0.00165	0.14074
0.95	0.08463	0.07252	0.07252	0.04603	0.02201	0.00779	0.00161	0.22254
1.00	0.08614	0.07381	0.07381	0.04684	0.02240	0.00794	0.00164	0.06455
1.05	0.08738	0.07517	0.07517	0.04823	0.02341	0.00842	0.00176	0.00724
1.10	0.08784	0.07635	0.07635	0.05034	0.02532	0.00941	0.00201	0.00485
1.15	0.08688	0.07705	0.07705	0.05352	0.02866	0.01124	0.00248	0.00704
1.20	0.08358	0.07690	0.07690	0.05842	0.03454	0.01461	0.00336	0.00884
1.25	0.07665	0.07531	0.07531	0.06646	0.04543	0.02114	0.00510	0.00976
1.30	0.06464	0.07137	0.07137	0.06085	0.06773	0.03520	0.00891	0.00981
1.35	0.04950	0.06421	0.06421	0.11029	0.12153	0.07105	0.01874	0.00904
1.40	0.07237	0.05994	0.05994	0.18123	0.28569	0.18747	0.05106	0.00849
1.45	0.46880	0.14251	0.14251	0.29175	0.72489	0.52774	0.14683	0.02011
1.50	0.79133	0.25147	0.25147	0.11177	0.48876	0.38747	0.10887	0.03541
1.55	0.61107	0.22080	0.22080	0.02291	0.19962	0.16850	0.04733	0.03134
1.60	0.50971	0.19856	0.19856	0.00537	0.10687	0.09389	0.02614	0.02905
1.65	0.46190	0.18741	0.18741	0.00138	0.07083	0.06345	0.01740	0.02933
1.70	0.43894	0.18183	0.18183	0.00044	0.05394	0.04846	0.01304	0.03227
1.75	0.42867	0.17918	0.17918	0.00025	0.04508	0.04014	0.01058	0.03939
1.80	0.42547	0.17821	0.17821	0.00023	0.04021	0.03524	0.00909	0.05543
1.85	0.42640	0.17828	0.17828	0.00024	0.03757	0.03233	0.00820	0.09568
1.90	0.42969	0.17907	0.17907	0.00023	0.03635	0.03080	0.00771	0.21451
1.95	0.43408	0.18042	0.18042	0.00022	0.03616	0.03039	0.00757	0.41561
2.00	0.43852	0.18231	0.18231	0.00023	0.03683	0.03107	0.00777	0.24218
2.05	0.44194	0.18481	0.18481	0.00026	0.03839	0.03308	0.00840	0.11420
2.10	0.44304	0.18815	0.18815	0.00038	0.04104	0.03690	0.00964	0.06929

Set VII ($L/2A=1000$) Table K (contd.)

$L/(LAMBDA)$	S(H)	S(I)	S(J)	S(K)	S(L)	S(M)	S(N)
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.15	0.00001	0.00001	0.00001	0.00001	0.00000	0.00000	0.00000
0.20	0.00007	0.00007	0.00005	0.00003	0.00002	0.00000	0.00002
0.25	0.00035	0.00032	0.00025	0.00016	0.00008	0.00002	0.00010
0.30	0.00148	0.00135	0.00104	0.00065	0.00031	0.00008	0.00041
0.35	0.00620	0.00562	0.00427	0.00265	0.00123	0.00031	0.00164
0.40	0.03085	0.02788	0.02092	0.01275	0.00583	0.00146	0.00774
0.45	0.24374	0.22019	0.16361	0.09808	0.04408	0.01091	0.05869
0.50	0.40859	0.37100	0.27404	0.16205	0.07165	0.01751	0.09601
0.55	0.14468	0.13316	0.09845	0.05773	0.02521	0.00609	0.03414
0.60	0.08502	0.08033	0.06008	0.03523	0.01528	0.00367	0.02103
0.65	0.06407	0.06337	0.04870	0.02891	0.01256	0.00301	0.01768
0.70	0.05459	0.05822	0.04700	0.02868	0.01262	0.00304	0.01829
0.75	0.04978	0.05998	0.05243	0.03353	0.01511	0.00367	0.02268
0.80	0.04728	0.06944	0.06841	0.04681	0.02184	0.00538	0.03409
0.85	0.04609	0.09406	0.10991	0.08206	0.03988	0.00999	0.06493
0.90	0.04575	0.16408	0.24208	0.20007	0.10145	0.02578	0.17230
0.95	0.04603	0.36673	0.73408	0.67584	0.35617	0.09149	0.63069
1.00	0.04684	0.18982	0.5725	0.56980	0.30977	0.08002	0.57180
1.05	0.04823	0.04085	0.19035	0.21391	0.11893	0.03075	0.22922
1.10	0.05034	0.01198	0.09569	0.11655	0.06579	0.01697	0.13297
1.15	0.05352	0.00432	0.06401	0.08348	0.04765	0.01225	0.10174
1.20	0.05842	0.00173	0.05196	0.07212	0.04165	0.01068	0.09492
1.25	0.06646	0.00073	0.04902	0.07266	0.04268	0.01097	0.10521
1.30	0.08085	0.00047	0.05321	0.08556	0.05166	0.01339	0.13985
1.35	0.11029	0.00124	0.06805	0.12243	0.07711	0.02030	0.23287
1.40	0.18123	0.00660	0.10838	0.22912	0.15310	0.04121	0.52368
1.45	0.29175	0.03310	0.17286	0.46077	0.33205	0.09172	1.30394
1.50	0.11177	0.03812	0.06652	0.24621	0.19360	0.05487	0.88356
1.55	0.02291	0.02369	0.01380	0.08045	0.06924	0.02004	0.37199
1.60	0.00537	0.01758	0.00329	0.03515	0.03287	0.00963	0.21156
1.65	0.00138	0.01495	0.00086	0.01956	0.01953	0.00574	0.15481
1.70	0.00044	0.01368	0.00027	0.01291	0.01344	0.00392	0.13723
1.75	0.00025	0.01301	0.00016	0.00962	0.01019	0.00292	0.14398
1.80	0.00023	0.01261	0.00015	0.00785	0.00829	0.00233	0.18023
1.85	0.00024	0.01244	0.00015	0.00702	0.00732	0.00202	0.28007
1.90	0.00023	0.01373	0.00016	0.00815	0.00861	0.00240	0.56354
1.95	0.00022	0.02195	0.00021	0.01613	0.01784	0.00510	0.97089
2.00	0.00023	0.02464	0.00023	0.01815	0.02011	0.00574	0.49980
2.05	0.00026	0.02217	0.00024	0.01567	0.01772	0.00507	0.20910
2.10	0.00038	0.02099	0.00033	0.01533	0.01779	0.00519	0.11479

Set VII ($L/2A=1000$) Table K (contd.)

$L/(LAMBDA)$	$S(I)$	$S(P)$	$S(Q)$	$S(R)$	$S(S)$	$S(T)$	$S(U)$
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.20	0.00002	0.00002	0.00002	0.00001	0.00001	0.00000	0.00000
0.25	0.00011	0.00010	0.00008	0.00005	0.00002	0.00001	0.00000
0.30	0.00045	0.00041	0.00031	0.00019	0.00009	0.00002	0.00001
0.35	0.00183	0.00164	0.00123	0.00076	0.00035	0.00009	0.00002
0.40	0.00874	0.00783	0.00583	0.00353	0.00161	0.00040	0.00010
0.45	0.06621	0.05956	0.04408	0.02633	0.01180	0.00292	0.00072
0.50	0.10596	0.09662	0.07165	0.04251	0.01885	0.00461	0.00113
0.55	0.03569	0.03350	0.02521	0.01500	0.00663	0.00161	0.00039
0.60	0.01989	0.01966	0.01528	0.00925	0.00411	0.00100	0.00024
0.65	0.01418	0.01527	0.01256	0.00786	0.00354	0.00087	0.00021
0.70	0.01142	0.01408	0.01262	0.00830	0.00384	0.00095	0.00024
0.75	0.00985	0.01496	0.01511	0.01060	0.00506	0.00127	0.00032
0.80	0.00888	0.01854	0.02184	0.01649	0.00813	0.00206	0.00052
0.85	0.00826	0.02819	0.03988	0.03251	0.01651	0.00422	0.00108
0.90	0.00791	0.05837	0.10145	0.08897	0.04627	0.01189	0.00306
0.95	0.00779	0.16462	0.35617	0.33385	0.17691	0.04552	0.01171
1.00	0.00794	0.11409	0.30977	0.30852	0.16604	0.04273	0.01100
1.05	0.00842	0.03454	0.11893	0.12562	0.06866	0.01768	0.00456
1.10	0.00941	0.04171	0.06579	0.07400	0.04121	0.01065	0.00276
1.15	0.01124	0.00778	0.04765	0.05768	0.03294	0.00856	0.00224
1.20	0.01461	0.00448	0.04165	0.05519	0.03255	0.00855	0.00226
1.25	0.02114	0.00253	0.04268	0.06327	0.03882	0.01032	0.00276
1.30	0.03520	0.00141	0.05166	0.08773	0.05628	0.01516	0.00411
1.35	0.07105	0.00214	0.07711	0.15345	0.10313	0.02813	0.00770
1.40	0.18747	0.01290	0.15310	0.36377	0.25583	0.07050	0.01946
1.45	0.52774	0.07422	0.33205	0.95431	0.70005	0.19446	0.05401
1.50	0.38747	0.09139	0.19360	0.67871	0.51758	0.14467	0.04041
1.55	0.16850	0.05930	0.06924	0.29833	0.23608	0.06637	0.01866
1.60	0.09389	0.04660	0.03287	0.17633	0.14495	0.04103	0.01164
1.65	0.06345	0.04388	0.01953	0.13389	0.11480	0.03280	0.00941
1.70	0.04846	0.04792	0.01344	0.12343	0.11117	0.03215	0.00935
1.75	0.04014	0.06052	0.01019	0.13560	0.12934	0.03796	0.01122
1.80	0.03524	0.09033	0.00829	0.17960	0.18291	0.05458	0.01638
1.85	0.03233	0.16692	0.00732	0.29895	0.32705	0.09923	0.03023
1.90	0.03080	0.39865	0.00861	0.65203	0.76859	0.23688	0.07313
1.95	0.03039	0.80959	0.01784	1.22825	1.55993	0.48743	0.15225
2.00	0.03107	0.48377	0.02011	0.69371	0.94742	0.29963	0.09463
2.05	0.03308	0.22916	0.01772	0.31767	0.46563	0.14892	0.04759
2.10	0.03696	0.13784	0.01779	0.18959	0.29831	0.09652	0.03126

VI	ECHO AREAS/($LAMBDA$ SQUARED) FOR $L/(LAMBDA)$	S(A)	S(B)	S(C)	LOADED SCATTERER S(D)	(BROADSIDE SCATTERER S(E)	S(F)	INCIDENCE) S(G)	S(H)	S(I)
0.05	0.58599	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.14650	0.00000	0.00000
0.10	0.68558	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.17140	0.00000	0.00000
0.15	0.71194	0.00002	0.00002	0.00002	0.00001	0.00000	0.00000	0.17799	0.00001	0.00001
0.20	0.72806	0.00039	0.00014	0.00014	0.00001	0.00005	0.00002	0.18204	0.00010	0.00009
0.25	0.74289	0.00096	0.00039	0.00032	0.00003	0.00021	0.00011	0.18584	0.00047	0.00040
0.30	0.75814	0.00191	0.00069	0.00093	0.00009	0.00078	0.00037	0.19005	0.00199	0.00145
0.35	0.77113	0.00069	0.00031	0.00079	0.00025	0.00264	0.00115	0.19498	0.00805	0.00448
0.40	0.75886	0.00031	0.00014	0.00062	0.00062	0.00881	0.00329	0.20086	0.03429	0.01169
0.45	0.47224	0.00009	0.01276	0.00144	0.00144	0.03143	0.00920	0.20787	0.13553	0.02420
0.50	0.24936	0.00000	0.00000	0.00824	0.00318	0.13581	0.02638	0.21625	0.20295	0.03842
0.55	0.68182	0.00023	0.00023	0.00601	0.00681	0.68182	0.08222	0.22627	0.14394	0.04894
0.60	0.81848	0.00121	0.00439	0.00439	0.01440	0.70910	0.29380	0.23826	0.10711	0.05543
0.65	0.90641	0.00394	0.00289	0.00289	0.03051	0.34661	0.90641	0.25264	0.08998	0.05992
0.70	0.98856	0.01071	0.00144	0.00144	0.06596	0.22402	0.86717	0.26995	0.08199	0.06392
0.75	1.07795	0.02694	0.00666	0.00026	0.14826	0.17439	0.51814	0.29090	0.07855	0.06815
0.80	1.18178	0.06666	0.00666	0.00023	0.34981	0.15072	0.35625	0.31642	0.07765	0.07292
0.85	1.30629	0.16958	0.04556	0.00385	0.82237	0.13859	0.28065	0.34773	0.07825	0.07839
0.90	1.45833	0.45565	1.19285	0.01820	1.48769	0.13242	0.24140	0.38643	0.07976	0.08466
0.95	1.64587	0.68233	0.58524	0.06560	1.54451	0.12964	0.21967	0.43455	0.08180	0.09187
1.00	1.87780	1.96216	1.62650	0.22791	1.80227	0.12884	0.20745	0.49453	0.08403	0.10023
1.05	2.16192	2.45696	2.45696	0.84693	0.88996	0.12914	0.20084	0.56880	0.08618	0.11007
1.10	2.49906	0.84561	0.84561	2.20778	0.71189	0.12987	0.19771	0.65842	0.08797	0.12198
1.15	2.86842	0.68233	0.68233	1.32679	0.60312	0.13039	0.19677	0.75965	0.08911	0.13695
1.20	3.20006	0.58524	0.58524	0.90854	0.53433	0.13001	0.19710	0.85716	0.08946	0.15667
1.25	3.34777	0.52446	0.52446	0.70509	0.48944	0.12778	0.19797	0.91677	0.08944	0.18393
1.30	2.52403	0.48502	0.48502	0.59409	0.45963	0.12247	0.19866	0.89394	0.09194	0.22287
1.35	1.76237	0.44187	0.44187	0.52824	0.43977	0.11282	0.19846	0.77863	0.10998	0.27765
1.40	0.82978	0.43085	0.43085	0.46075	0.41875	0.13777	0.19708	0.63082	0.19424	0.34671
1.45	0.23622	0.42421	0.42421	0.44383	0.41257	0.45905	0.22256	0.52238	0.42540	0.41374
1.50	0.30762	0.42074	0.42074	0.43327	0.41288	0.60403	0.36555	0.46785	0.57940	0.45462
1.55	0.36842	0.41962	0.41962	0.42713	0.41471	0.51873	0.48707	0.44525	0.54441	0.46359
1.60	0.39954	0.42020	0.42020	0.42417	0.41759	0.46581	0.46675	0.43537	0.49032	0.45483
1.65	0.41446	0.42191	0.42191	0.42350	0.42098	0.44026	0.44169	0.42991	0.45589	0.44236
1.70	0.42122	0.42418	0.42418	0.42444	0.42413	0.42903	0.42951	0.42657	0.43711	0.43258
1.75	0.42438	0.42645	0.42645	0.42645	0.42643	0.42553	0.42562	0.42493	0.42820	0.42701
1.80	0.42643	0.42865	0.42865	0.42904	0.42866	0.42640	0.42639	0.42492	0.42541	0.42525
1.85	0.42866	0.43165	0.43165	0.43197	0.43197	0.42967	0.42963	0.42641	0.42964	0.42640
1.90	0.43174	0.43547	0.43547	0.43542	0.43585	0.43402	0.43391	0.42917	0.42964	0.42952
1.95	0.43616	0.43907	0.43907	0.43925	0.43925	0.43816	0.43816	0.43291	0.43398	0.43370
2.00	0.44259	0.44168	0.44168	0.44261	0.44150	0.44170	0.44136	0.43734	0.43841	0.43809
2.05	0.45242	0.44168	0.44168	0.44261	0.44150	0.44170	0.44136	0.44226	0.44195	0.44180
2.10						0.44275	0.44238	0.44771	0.44340	0.44395

VIII PRIMED ADMITTANCE PARAMETERS (MILLIMHOS) FOR CENTER LOADED SCATTERER, NORMAL INCIDENCE				
$L/(\lambda BDA)$	RE DY11	IM DY11	RE Y12	IM Y12
0.05	0.00000	0.00005	0.00000	0.00281
0.10	0.00000	0.00040	0.00001	0.01163
0.15	0.00001	0.00143	0.00013	0.02784
0.20	0.00004	0.00370	0.00063	0.05433
0.25	0.00021	0.00820	0.00246	0.09687
0.30	0.00088	0.01697	0.00873	0.16789
0.35	0.00371	0.03492	0.03175	0.29797
0.40	0.01854	0.07683	0.13977	0.57800
0.45	0.14723	0.16936	0.99466	1.14229
0.50	0.24826	-0.15708	1.52301	-0.96649
0.55	0.08849	-0.15317	0.49834	-0.86678
0.60	0.05239	-0.12692	0.27323	-0.66805
0.65	0.03980	-0.11399	0.19371	-0.56345
0.70	0.03420	-0.10761	0.15635	-0.50384
0.75	0.03147	-0.10458	0.13583	-0.46776
0.80	0.03014	-0.10342	0.12348	-0.44561
0.85	0.02963	-0.10335	0.11561	-0.43270
0.90	0.02960	-0.10390	0.11041	-0.42661
0.95	0.02991	-0.10474	0.10684	-0.42615
1.00	0.03044	-0.10559	0.10426	-0.43094
1.05	0.03116	-0.10620	0.10216	-0.44124
1.10	0.03205	-0.10624	0.10000	-0.45806
1.15	0.03316	-0.10526	0.09696	-0.48342
1.20	0.03466	-0.10255	0.09148	-0.52113
1.25	0.03701	-0.09683	0.07989	-0.57843
1.30	0.04167	-0.08559	0.05193	-0.66985
1.35	0.05390	-0.06351	-0.02771	-0.82561
1.40	0.09810	-0.02283	-0.31377	-1.08194
1.45	0.25236	-0.04514	-1.25157	-0.89627
1.50	0.22805	-0.24276	-1.00002	0.29107
1.55	0.13559	-0.25939	-0.41157	0.32517
1.60	0.10126	-0.24739	-0.19650	0.20986
1.65	0.08703	-0.23912	-0.10404	0.12787
1.70	0.08032	-0.23470	-0.05607	0.07433
1.75	0.07700	-0.23274	-0.02774	0.03906
1.80	0.07545	-0.23228	-0.00940	0.01592
1.85	0.07492	-0.23273	0.00332	0.00146
1.90	0.07503	-0.23369	0.01268	-0.00618
1.95	0.07557	-0.23483	0.02001	-0.00788
2.00	0.07644	-0.23587	0.02618	-0.00377
2.05	0.07758	-0.23651	0.03198	0.00672
2.10	0.07902	-0.23636	0.03834	0.02502

I INPUT ADMITTANCES (MILLIMHOS) AND IMPEDANCES (KILU-OHMS)

A) SOURCE AT CENTER L/(LAMBDA)	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0000	0.2083	0.2083	90.0	0.0005	-4.8018	4.8018	-90.0
0.10	0.0003	0.4277	0.4277	90.0	0.0019	-2.3381	2.3381	-90.0
0.15	0.0019	0.6722	0.6722	89.8	0.0043	-1.4877	1.4877	-89.8
0.20	0.0073	0.9622	0.9622	89.6	0.0079	-1.0393	1.0393	-89.6
0.25	0.0230	1.3330	1.3332	89.0	0.0129	-0.7500	0.7501	-89.0
0.30	0.0680	1.8560	1.8572	87.9	0.0197	-0.5381	0.5384	-87.9
0.35	0.2116	2.7005	2.7087	85.5	0.0288	-0.3680	0.3692	-85.5
0.40	0.8113	4.3695	4.4442	79.5	0.0411	-0.2212	0.2250	-79.5
0.45	5.3611	8.0132	9.6412	56.2	0.0577	-0.0862	0.1037	-56.2
0.50	9.4346	-5.2942	10.8185	-29.3	0.0806	0.0452	0.0924	29.3
0.55	2.4992	-3.9804	4.7000	-57.9	0.1131	0.1802	0.2128	57.9
0.60	1.2177	-2.4664	2.7506	-63.7	0.1609	0.3260	0.3636	63.7
0.65	0.7913	-1.6574	1.8366	-64.5	0.2346	0.4914	0.5445	64.5
0.70	0.5940	-1.1486	1.2930	-62.7	0.3552	0.6869	0.7734	62.7
0.75	0.4845	-0.7855	0.9229	-58.3	0.5688	0.9222	1.0835	58.3
0.80	0.4167	-0.5012	0.6518	-50.3	0.9807	1.1797	1.5341	50.3
0.85	0.3716	-0.2618	0.4546	-35.2	1.7982	1.2669	2.1996	35.2
0.90	0.3404	-0.0477	0.3437	-8.0	2.8810	0.4036	2.9092	8.0
0.95	0.3186	0.1542	0.3540	25.8	2.5429	-1.2310	2.8252	-25.8
1.00	0.3040	0.3541	0.4667	49.4	1.3956	-1.6259	2.1427	-49.4
1.05	0.2960	0.5616	0.6348	62.2	0.7344	-1.3936	1.5752	-62.2
1.10	0.2955	0.7876	0.8413	69.4	0.4175	-1.1130	1.1887	-69.4
1.15	0.3057	1.0471	1.0908	73.7	0.2569	-0.8800	0.9168	-73.7
1.20	0.3344	1.3630	1.4034	76.2	0.1698	-0.6920	0.7125	-76.2
1.25	0.4006	1.7757	1.8203	77.2	0.1209	-0.5359	0.5494	-77.3
1.30	0.5566	2.3635	2.4281	76.7	0.0944	-0.4009	0.4118	-76.7
1.35	0.9773	3.2925	3.4345	73.5	0.0829	-0.2791	0.2912	-73.5
1.40	2.4396	4.8401	5.4201	63.3	0.0830	-0.1648	0.1845	-63.3
1.45	8.0598	4.5370	9.2490	29.4	0.0942	-0.0530	0.1081	-29.4
1.50	6.7311	-3.4414	7.5598	-27.1	0.1178	0.0602	0.1323	27.1
1.55	2.7708	-3.1479	4.1936	-48.6	0.1576	0.1790	0.2385	48.6
1.60	1.5442	-2.1444	2.6425	-54.2	0.2211	0.3071	0.3784	54.2
1.65	1.0620	-1.4705	1.8138	-54.2	0.3228	0.4469	0.5513	54.2
1.70	0.8244	-1.0034	1.2986	-50.0	0.4888	0.5950	0.7701	50.6
1.75	0.6890	-0.6523	0.9488	-43.4	0.7654	0.7246	1.0540	43.4
1.80	0.6041	-0.3683	0.7075	-31.4	1.2068	0.7357	1.4133	31.4
1.85	0.5477	-0.1235	0.5614	-12.7	1.7375	0.3920	1.7812	12.7
1.90	0.5090	0.0994	0.5186	11.1	1.8924	-0.3696	1.9282	-11.1
1.95	0.4829	0.3131	0.5755	33.0	1.4579	-0.9454	1.7376	-33.0
2.00	0.4669	0.5281	0.7049	48.5	0.9397	-1.0628	1.4187	-48.5
2.05	0.4610	0.7549	0.8845	58.6	0.5892	-0.9649	1.1306	-58.6
2.10	0.4673	1.0065	1.1097	65.1	0.3795	-0.8173	0.9011	-65.1

B) SOURCE L/8 OFF CENTER L/(LAMBDA)	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0000	0.1972	0.1972	90.0	0.0005	-5.0708	5.0708	-90.0
0.10	0.0003	0.4044	0.4044	90.0	0.0019	-2.4731	2.4731	-90.0
0.15	0.0017	0.6337	0.6337	89.8	0.0043	-1.5781	1.5781	-89.8
0.20	0.0065	0.9031	0.9032	89.6	0.0079	-1.1072	1.1072	-89.6
0.25	0.0203	1.2437	1.2438	89.1	0.0131	-0.8039	0.8040	-89.1
0.30	0.0598	1.7172	1.7183	88.0	0.0203	-0.5816	0.5820	-88.0
0.35	0.1852	2.4707	2.4776	85.7	0.0302	-0.4025	0.4036	-85.7
0.40	0.7069	3.9385	4.0014	79.8	0.0441	-0.2460	0.2499	-79.8
0.45	4.6471	7.1068	8.4913	56.8	0.0645	-0.0986	0.1178	-56.8
0.50	8.1332	-4.3661	9.2311	-28.2	0.0954	0.0512	0.1083	28.2
0.55	2.1436	-3.1689	3.8258	-55.9	0.1465	0.2165	0.2614	55.9
0.60	1.0412	-1.8017	2.0809	-60.0	0.2404	0.4161	0.4806	60.0
0.65	0.6781	-1.0293	1.2326	-56.6	0.4463	0.6775	0.8113	56.6
0.70	0.5170	-0.4908	0.7129	-43.5	1.0173	0.9659	1.4028	43.5
0.75	0.4421	-0.0350	0.4435	-4.5	2.2479	0.1781	2.2549	4.5
0.80	0.4307	0.4320	0.6100	45.1	1.1575	-1.1608	1.6393	-45.1
0.85	0.5253	1.0220	1.1491	62.8	0.3978	-0.7740	0.8702	-62.8
0.90	0.9979	1.9533	2.1935	62.9	0.2074	-0.4060	0.4559	-62.9
0.95	3.6191	2.8289	4.5935	38.0	0.1715	-0.1341	0.2177	-38.0
1.00	4.0317	-1.9125	4.4623	-25.4	0.2025	0.0960	0.2241	25.4
1.05	1.5722	-1.7041	2.3186	-47.3	0.2925	0.3170	0.4313	47.3
1.10	0.9117	-1.0469	1.3882	-48.9	0.4731	0.5432	0.7204	48.9
1.15	0.6676	-0.6000	0.8976	-41.9	0.8286	0.7447	1.1141	41.9
1.20	0.5536	-0.2631	0.6130	-25.4	1.4735	-0.7003	1.6314	25.4
1.25	0.4983	0.0261	0.4990	3.0	2.0012	-0.1046	2.0040	-3.0
1.30	0.4849	0.3077	0.5743	32.4	1.4702	-0.9331	1.7413	32.4
1.35	0.5323	0.6224	0.8189	49.5	0.7937	-0.9280	1.2211	49.5
1.40	0.7630	1.0156	1.2702	53.1	0.4729	-0.6294	0.7873	53.1
1.45	1.6448	1.0631	1.9584	32.9	0.4288	-0.2772	0.5106	32.9
1.50	1.3295	-0.0305	1.3299	-1.3	0.7518	0.0172	0.7520	1.3
1.55	0.6961	0.2464	0.7384	19.5	1.2767	-0.4519	1.3543	-19.5
1.60	0.5171	0.6300	0.8150	50.6	0.7785	-0.9484	1.2270	50.6
1.65	0.4665	0.9923	1.0965	64.8	0.3880	-0.8253	0.9120	64.8
1.70	0.4767	1.3836	1.4634	71.0	0.2226	-0.6461	0.6833	71.0
1.75	0.5521	1.8641	1.9441	73.5	0.1461	-0.4932	0.5144	73.5
1.80	0.7576	2.5274	2.6385	73.3	0.1088	-0.3630	0.3790	73.3
1.85	1.3350	3.5455	3.7885	69.4	0.0930	-0.2470	0.2640	69.4
1.90	3.3276	5.0107	6.0150	56.4	0.0920	-0.1385	0.1663	56.4
1.95	8.7723	2.7301	9.1873	17.3	0.1039	-0.0323	0.1088	17.3
2.00	5.7368	-3.3329	6.6347	-30.2	0.1303	0.0757	0.1507	30.2
2.05	2.6305	-2.8315	3.8648	-47.1	0.1761	0.1896	0.2587	47.1
2.10	1.5647	-1.9401	2.4925	-51.1	0.2519	0.3123	0.4012	51.1

C)	SOURCE	L/4	OFF	CENTER	B	G	MAG	Y	ANG	Y	R	X	MAG	Z	ANG
L/(LAMBDA)							Y								
0.05	0.0000	0.1635	0.1635	90.0	0.0005	-6.1167	6.1167	-50.0					6.1167		-50.0
0.10	0.0002	0.3336	0.3336	90.0	0.0018	-2.9980	2.9980	-90.0					2.9980		-90.0
0.15	0.0011	0.5182	0.5182	89.9	0.0043	-1.9297	1.9297	-89.9					1.9297		-89.9
0.20	0.0043	0.7290	0.7290	89.7	0.0080	-1.3716	1.3716	-89.7					1.3716		-89.7
0.25	0.0132	0.9856	0.9856	89.2	0.0136	-1.0144	1.0145	-89.2					1.0145		-89.2
0.30	0.0385	1.3265	1.3265	88.3	0.0219	-0.7532	0.7535	-88.3					0.7535		-88.3
0.35	0.1178	1.8422	1.8460	86.3	0.0346	-0.5406	0.5417	-86.3					0.5417		-86.3
0.40	0.4432	2.7980	2.8329	81.0	0.0552	-0.3486	0.3530	-81.0					0.3530		-81.0
0.45	2.8675	4.7820	5.5758	59.1	0.0922	-0.1538	0.1793	-59.1					0.1793		-59.1
0.50	4.9353	-2.1708	5.3916	-23.7	0.1698	0.0747	0.1555	23.7					0.1555		23.7
0.55	1.2809	-1.3143	1.8353	-45.7	0.3803	0.3902	0.5449	45.7					0.5449		45.7
0.60	0.6164	-0.3616	0.7147	-30.4	1.2069	0.7080	1.3952	30.4					1.3952		30.4
0.65	0.4044	0.2512	0.4760	31.8	1.7845	-1.1084	2.1008	-31.8					2.1008		-31.8
0.70	0.3221	0.7620	0.8273	67.1	0.4706	-1.1134	1.2088	-67.1					1.2088		-67.1
0.75	0.3094	1.2907	1.3273	76.5	0.1756	-0.7327	0.7534	-76.5					0.7534		-76.5
0.80	0.3791	1.9484	1.9849	79.0	0.0962	-0.4945	0.5038	-79.0					0.5038		-79.0
0.85	0.6472	2.9253	2.9960	77.5	0.0721	-0.3259	0.3338	-77.5					0.3338		-77.5
0.90	1.7017	4.6451	4.9470	69.9	0.0695	-0.1898	0.2021	-69.9					0.2021		-69.9
0.95	7.2381	6.2007	9.5309	40.6	0.0797	-0.0683	0.1049	-40.6					0.1049		-40.6
1.00	7.9476	-3.8944	8.8504	-26.1	0.1015	0.0497	0.1130	26.1					0.1130		26.1
1.05	2.8192	-3.5191	4.5090	-51.3	0.1387	0.1731	0.2218	51.3					0.2218		51.3
1.10	1.4650	-2.2574	2.6911	-57.0	0.2023	0.3117	0.3716	57.0					0.3716		57.0
1.15	0.9704	-1.4412	1.7375	-56.0	0.3215	0.4774	0.5755	56.0					0.5755		56.0
1.20	0.7404	-0.8502	1.1274	-49.0	0.5825	0.6689	0.8870	49.0					0.8870		49.0
1.25	0.6279	-0.3483	0.7180	-29.0	1.2180	0.6756	1.3928	29.0					1.3928		29.0
1.30	0.6015	0.1602	0.6225	14.9	1.5523	-0.4133	1.6064	-14.9					1.6064		-14.9
1.35	0.7163	0.7893	1.0658	47.8	0.6305	-0.6948	0.9382	-47.8					0.9382		-47.8
1.40	1.3195	1.7136	2.1627	52.4	0.2821	-0.3663	0.4624	-52.4					0.4624		-52.4
1.45	3.9658	1.8786	4.3882	25.3	0.2059	-0.0976	0.2279	-25.3					0.2279		-25.3
1.50	3.5862	-1.8440	4.0325	-27.2	0.2205	0.1134	0.2480	27.2					0.2480		27.2
1.55	1.6852	-1.7484	2.4283	-46.1	0.2858	0.2965	0.4118	-46.1					0.4118		46.1
1.60	1.0592	-1.2328	1.6253	-49.3	0.4010	0.4667	0.6153	49.3					0.6153		49.3
1.65	0.7999	-0.8548	1.1707	-46.9	0.5836	0.6237	0.8542	46.9					0.8542		46.9
1.70	0.6660	-0.5714	0.8775	-40.6	0.8648	0.7420	1.1395	40.6					1.1395		40.6
1.75	0.5867	-0.3431	0.6796	-30.3	1.2701	0.7428	1.4714	30.3					1.4714		30.3
1.80	0.5358	-0.1474	0.5557	-15.4	1.7350	0.4774	1.7994	15.4					1.7994		15.4
1.85	0.5025	0.0283	0.5033	3.2	1.9838	-0.1119	1.9870	-3.2					1.9870		-3.2
1.90	0.4815	0.1900	0.5177	21.5	1.7969	-0.7091	1.9317	-21.5					1.9317		-21.5
1.95	0.4584	0.3375	0.5693	36.4	1.4145	-1.0415	1.7566	-36.4					1.7566		-36.4
2.00	0.4295	0.5114	0.6678	50.0	0.9631	-1.1466	1.4974	-50.0					1.4974		-50.0
2.05	0.4267	0.6953	0.8158	58.5	0.6412	-1.0448	1.2258	-58.5					1.2258		-58.5
2.10	0.4340	0.8895	0.9897	64.0	0.4431	-0.9081	1.0104	-64.0					1.0104		-64.0

D) SOURCE 3L/8 OFF CENTER	L/(LAMBDA)	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0000	0.1045	0.1045	90.0	90.0	0.0000	-9.5672	9.5672	-90.0
0.10	0.0001	0.2115	0.2115	90.0	90.0	0.0018	-4.7281	4.7281	-90.0
0.15	0.0004	0.3239	0.3239	89.9	89.9	0.0041	-3.0877	3.0877	-89.9
0.20	0.0016	0.4457	0.4457	89.8	89.8	0.0079	-2.2435	2.2435	-89.8
0.25	0.0048	0.5838	0.5838	89.5	89.5	0.0140	-1.7128	1.7128	-89.5
0.30	0.0137	0.7511	0.7511	89.0	89.0	0.0243	-1.3310	1.3312	-89.0
0.35	0.0410	0.9772	0.9772	87.0	87.0	0.0429	-1.0215	1.0224	-87.6
0.40	0.1505	1.3482	1.3482	83.6	83.6	0.0818	-0.7326	0.7371	-83.6
0.45	0.9472	2.0467	2.0467	65.2	65.2	0.1862	-0.4024	0.4434	-65.2
0.50	1.5838	-0.1518	1.5910	-5.5	-5.5	0.4257	0.0600	0.6285	5.5
0.55	0.4004	0.2221	0.4579	29.0	29.0	0.1098	-1.0596	2.1840	-29.0
0.60	0.1898	0.6211	0.6494	73.0	73.0	0.4500	-1.4725	1.5358	-73.0
0.65	0.1261	0.9193	0.9279	82.2	82.2	0.1465	-1.0677	1.0777	-82.2
0.70	0.1073	1.2009	1.2057	84.9	84.9	0.0738	-0.8261	0.8294	-84.9
0.75	0.1179	1.5145	1.5191	85.5	85.5	0.0511	-0.6563	0.6583	-85.5
0.80	0.1723	1.9141	1.9219	84.9	84.9	0.0467	-0.5182	0.5203	-84.9
0.85	0.3405	2.5008	2.5239	82.2	82.2	0.0534	-0.3926	0.3962	-82.2
0.90	0.9581	3.4998	3.6286	74.7	74.7	0.0728	-0.2658	0.2756	-74.7
0.95	4.0691	4.3440	5.9521	46.9	46.9	0.1149	-0.1226	0.1680	-46.9
1.00	4.2951	-1.2052	4.4610	-15.7	-15.7	0.2158	0.0606	0.2242	15.7
1.05	1.4482	-0.8062	1.6575	-29.1	-29.1	0.5272	0.2935	0.6033	29.1
1.10	0.7215	0.0457	0.7229	3.6	3.6	1.3805	-0.0874	1.3833	-3.6
1.15	0.4720	0.6667	0.8168	54.7	54.7	0.7074	-0.9992	1.2242	-54.7
1.20	0.3780	1.2044	1.2623	72.6	72.6	0.2372	-0.7558	0.7922	-72.6
1.25	0.3736	1.7640	1.8031	78.0	78.0	0.1149	-0.5426	0.5546	-78.0
1.30	0.4795	2.4516	2.4980	78.9	78.9	0.0768	-0.3929	0.4003	-78.9
1.35	0.8486	3.4402	3.5434	76.1	76.1	0.0676	-0.2740	0.2822	-76.1
1.40	2.2043	4.9990	5.4634	66.2	66.2	0.0739	-0.1675	0.1830	-66.2
1.45	7.4597	4.8116	8.8768	32.8	32.8	0.0947	-0.0611	0.1127	-32.8
1.50	6.1821	-2.5440	6.6851	-22.4	-22.4	0.1383	0.0569	0.1496	22.4
1.55	2.4660	-2.1188	3.2512	-40.7	-40.7	0.2333	0.2004	0.3076	40.7
1.60	1.3227	-1.0080	1.6630	-37.3	-37.3	0.4783	0.3645	0.6013	37.3
1.65	0.8883	-0.1649	0.9035	-10.5	-10.5	1.0882	0.2020	1.1068	10.5
1.70	0.7059	0.5533	0.8969	38.1	38.1	0.8775	-0.6878	1.1149	-38.1
1.75	0.6686	1.2789	1.4431	62.4	62.4	0.3210	-0.6141	0.6930	-62.4
1.80	0.8025	2.1493	2.2942	69.5	69.5	0.1525	-0.4083	0.4359	-69.5
1.85	1.3417	3.3727	3.6298	68.3	68.3	0.1018	-0.2560	0.2755	-68.3
1.90	3.3762	5.0853	6.1040	56.4	56.4	0.0906	-0.1365	0.1638	-56.4
1.95	9.1532	2.9218	9.6082	17.7	17.7	0.0991	-0.0316	0.1041	-17.7
2.00	6.0815	-3.4400	6.9870	-29.5	-29.5	0.1246	0.0705	0.1431	29.5
2.05	2.7811	-2.8696	3.9962	-45.9	-45.9	0.1742	0.1797	0.2502	45.9
2.10	1.6316	-1.8214	2.4453	-48.1	-48.1	0.2729	0.3046	0.4089	48.1

E) SOURCE $L/4$ OFF CENTER, $Y=0$ AT CENTER $L/(\lambda \text{BDA})$	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z
0.05	0.0000	0.1163	0.1163	90.0	0.0002	-8.5987	8.5987	-90.0
0.10	0.0000	0.2341	0.2341	90.0	0.0006	-4.2709	4.2709	-90.0
0.15	0.0002	0.3552	0.3552	90.0	0.0012	-2.8154	2.8154	-90.0
0.20	0.0005	0.4812	0.4812	89.9	0.0021	-2.0780	2.0780	-89.9
0.25	0.0013	0.6144	0.6144	89.9	0.0033	-1.6276	1.6276	-89.9
0.30	0.0028	0.7573	0.7573	89.8	0.0049	-1.3204	1.3204	-89.8
0.35	0.0056	0.9132	0.9132	89.6	0.0067	-1.0950	1.0950	-89.6
0.40	0.0106	1.0865	1.0865	89.4	0.0090	-0.9204	0.9204	-89.4
0.45	0.0192	1.2829	1.2829	89.1	0.0117	-0.7794	0.7795	-89.1
0.50	0.0339	1.5107	1.5107	88.7	0.0149	-0.6618	0.6620	-88.7
0.55	0.0591	1.7809	1.7819	88.1	0.0186	-0.5609	0.5612	-88.1
0.60	0.1030	2.1124	2.1150	87.2	0.0230	-0.4723	0.4728	-87.2
0.65	0.1820	2.5326	2.5392	85.9	0.0282	-0.3928	0.3938	-85.9
0.70	0.3314	3.0862	3.1039	83.9	0.0344	-0.3203	0.3222	-83.9
0.75	0.6342	3.8443	3.8962	80.6	0.0418	-0.2532	0.2567	-80.6
0.80	1.3037	4.9001	5.0705	75.1	0.0507	-0.1906	0.1972	-75.1
0.85	2.8823	6.2087	6.8451	65.1	0.0615	-0.1325	0.1461	-65.1
0.90	6.0836	6.8738	9.1793	48.5	0.0722	-0.0816	0.1089	-48.5
0.95	11.8313	5.5216	13.0564	25.0	0.0694	-0.0324	0.0766	-25.0
1.00	10.9067	-5.8557	12.3793	-28.2	0.0712	0.0382	0.0808	28.2
1.05	4.0004	-3.5491	7.2336	-50.1	0.0887	0.1060	0.1382	50.1
1.10	2.6735	-4.1368	4.9255	-57.1	0.1102	0.1705	0.2030	57.1
1.15	1.8319	-3.1950	3.6829	-60.2	0.1351	0.2355	0.2715	60.2
1.20	1.3840	-2.5481	2.8997	-61.5	0.1646	0.3030	0.3449	61.5
1.25	1.1128	-2.0755	2.3550	-61.8	0.2007	0.3742	0.4246	61.8
1.30	0.9341	-1.7118	1.9501	-61.4	0.2456	0.4501	0.5128	61.4
1.35	0.8091	-1.4202	1.6345	-60.3	0.3028	0.5316	0.6118	60.3
1.40	0.7177	-1.1782	1.3796	-58.7	0.3771	0.6191	0.7249	58.7
1.45	0.6486	-0.9717	1.1683	-56.3	0.4752	0.7119	0.8560	56.3
1.50	0.5950	-0.7911	0.9899	-53.0	0.6073	0.8073	1.0102	53.0
1.55	0.5528	-0.6298	0.8380	-48.7	0.7872	0.8969	1.1934	48.7
1.60	0.5190	-0.4832	0.7091	-43.0	1.0322	0.9610	1.4103	43.0
1.65	0.4918	-0.3477	0.6023	-35.3	1.3557	0.9584	1.6602	35.3
1.70	0.4701	-0.2209	0.5194	-25.2	1.7424	0.8188	1.9252	25.2
1.75	0.4530	-0.1011	0.4641	-12.6	2.1030	0.4693	2.1547	12.6
1.80	0.4393	0.0126	0.4395	1.6	2.2742	-0.0653	2.2752	-1.6
1.85	0.4271	0.1208	0.4439	15.8	2.1678	-0.6132	2.2528	-15.8
1.90	0.4142	0.2255	0.4716	28.6	1.8625	-1.0139	2.1206	-28.6
1.95	0.3925	0.3252	0.5097	39.6	1.5106	-1.2516	1.9618	-39.6
2.00	0.3637	0.4531	0.5810	51.2	1.0775	-1.3422	1.7212	-51.2
2.05	0.3585	0.5852	0.6863	58.5	0.7612	-1.2425	1.4571	-58.5
2.10	0.3582	0.7156	0.8002	63.4	0.5594	-1.1175	1.2497	-63.4

F)	SOURCE L/4 OFF CENTER, L/(LAMBDA)	G	B	MAG Y	Y=(-J/600)C01(KL/4)	ANG Y	K	MHD5	AT CENTER	X	MAG Z	ANG Z
0.05	0.0000	0.1640	0.1640	90.0	0.0005	-6.0993	0.0005	-6.0993	6.0993	-90.0	6.0993	-90.0
0.10	0.0002	0.3378	0.3378	90.0	0.0019	-2.9606	0.0019	-2.9606	2.9606	-90.0	2.9606	-90.0
0.15	0.0013	0.5357	0.5357	89.9	0.0045	-1.8667	0.0045	-1.8667	1.8667	-89.9	1.8667	-89.9
0.20	0.0057	0.7863	0.7863	89.6	0.0092	-1.2718	0.0092	-1.2718	1.2718	-89.6	1.2718	-89.6
0.25	0.0238	1.1693	1.1693	88.8	0.0174	-0.8548	0.0174	-0.8548	0.8548	-88.8	0.8548	-88.8
0.30	0.1483	2.0661	2.0661	85.9	0.0346	-0.4815	0.0346	-0.4815	0.4815	-85.9	0.4815	-85.9
0.35	11.9790	0.5618	0.5618	2.7	0.0833	-0.0039	0.0833	-0.0039	0.0834	-2.7	0.0834	-2.7
0.40	0.2372	-0.7167	-0.7167	-71.7	0.4162	1.2576	0.4162	1.2576	1.3247	71.7	1.3247	71.7
0.45	0.0637	0.1956	0.1956	72.0	1.5054	-4.6216	1.5054	-4.6216	4.8606	-72.0	4.8606	-72.0
0.50	0.0265	0.6390	0.6390	87.6	0.0648	-1.5623	0.0648	-1.5623	1.5637	-87.6	1.5637	-87.6
0.55	0.0136	0.9866	0.9866	89.2	0.0140	-1.0134	0.0140	-1.0134	1.0135	-89.2	1.0135	-89.2
0.60	0.0123	1.3278	1.3278	89.5	0.0070	-0.7531	0.0070	-0.7531	0.7531	-89.5	0.7531	-89.5
0.65	0.0237	1.7095	1.7095	89.2	0.0081	-0.5848	0.0081	-0.5848	0.5849	-89.2	0.5849	-89.2
0.70	0.0579	2.1796	2.1796	88.5	0.0122	-0.4585	0.0122	-0.4585	0.4586	-88.5	0.4586	-88.5
0.75	0.1430	2.8111	2.8111	87.1	0.0181	-0.3548	0.0181	-0.3548	0.3553	-87.1	0.3553	-87.1
0.80	0.3615	3.7438	3.7438	84.5	0.0256	-0.2646	0.0256	-0.2646	0.2659	-84.5	0.2659	-84.5
0.85	1.0079	5.2764	5.2764	79.2	0.0349	-0.1829	0.0349	-0.1829	0.1862	-79.2	0.1862	-79.2
0.90	3.4511	7.8615	7.8615	66.3	0.0468	-0.1066	0.0468	-0.1066	0.1165	-66.3	0.1165	-66.3
0.95	12.2457	7.3828	7.3828	31.1	0.0599	-0.0361	0.0599	-0.0361	0.0699	-31.1	0.0699	-31.1
1.00	10.9067	-5.8557	-5.8557	-28.2	0.0712	0.0382	0.0712	0.0382	0.0808	28.2	0.0808	28.2
1.05	4.2099	-5.3486	-5.3486	-51.8	0.0909	0.1154	0.0909	0.1154	0.1469	51.8	0.1469	51.8
1.10	2.2695	-3.7785	-3.7785	-59.0	0.1168	0.1945	0.1168	0.1945	0.2269	59.0	0.2269	59.0
1.15	1.5059	-2.7790	-2.7790	-61.5	0.1507	0.2782	0.1507	0.2782	0.3164	61.5	0.3164	61.5
1.20	1.1243	-2.1109	-2.1109	-62.0	0.1965	0.3690	0.1965	0.3690	0.4181	62.0	0.4181	62.0
1.25	0.9040	-1.6259	-1.6259	-60.9	0.2612	0.4698	0.2612	0.4698	0.5375	60.9	0.5375	60.9
1.30	0.7655	-1.2462	-1.2462	-58.4	0.3579	0.5826	0.3579	0.5826	0.6837	58.4	0.6837	58.4
1.35	0.6754	-0.9274	-0.9274	-53.9	0.5132	0.7046	0.5132	0.7046	0.8716	53.9	0.8716	53.9
1.40	0.6206	-0.6387	-0.6387	-45.8	0.7826	0.8053	0.7826	0.8053	1.1229	45.8	1.1229	45.8
1.45	0.6033	-0.3523	-0.3523	-30.3	1.2361	0.7218	1.2361	0.7218	1.4315	30.3	1.4315	30.3
1.50	0.6562	-0.0343	-0.0343	-3.0	1.5197	0.0795	1.5197	0.0795	1.5218	3.0	1.5218	3.0
1.55	0.9265	0.3291	0.3291	19.6	0.9584	-0.3405	0.9584	-0.3405	1.0171	-19.6	1.0171	-19.6
1.60	1.6992	0.2050	0.2050	6.9	0.5801	-0.0700	0.5801	-0.0700	0.5843	-6.9	0.5843	-6.9
1.65	1.4260	-0.6577	-0.6577	-24.8	0.5783	0.2667	0.5783	0.2667	0.6368	24.8	0.6368	24.8
1.70	0.8820	-0.5768	-0.5768	-33.2	0.7942	0.5193	0.7942	0.5193	0.9489	33.2	0.9489	33.2
1.75	0.6628	-0.3470	-0.3470	-17.6	1.1341	0.6200	1.1341	0.6200	1.3366	17.6	1.3366	17.6
1.80	0.5632	-0.1441	-0.1441	-14.4	1.6666	0.4264	1.6666	0.4264	1.7203	14.4	1.7203	14.4
1.85	0.5109	0.0334	0.0334	3.7	1.9491	-0.1274	1.9491	-0.1274	1.9533	-3.7	1.9533	-3.7
1.90	0.4824	0.1936	0.1936	21.9	1.7853	-0.7165	1.7853	-0.7165	1.9237	-21.9	1.9237	-21.9
1.95	0.4572	0.3388	0.3388	36.5	1.4119	-1.0464	1.4119	-1.0464	1.7574	-36.5	1.7574	-36.5
2.00	0.3637	0.4531	0.4531	51.2	1.0775	-1.3422	1.0775	-1.3422	1.7212	-51.2	1.7212	-51.2
2.05	0.4317	0.6977	0.6977	58.3	0.6413	-1.0364	0.6413	-1.0364	1.2188	-58.3	1.2188	-58.3
2.10	0.4512	0.9033	0.9033	63.5	0.4426	-0.8860	0.4426	-0.8860	0.9904	-63.5	0.9904	-63.5

G)	SOURCE	L/4	OFF	CENTER,			Y=(-J/300)CUT(KL/4)	MHOS	AT	CENTER		MAG	Z	ANG	Z
L/(LAMBDA)				B		MAG	Y	R	X			Z			
0.05		0.0000		0.1637		0.1637	90.0	0.0005	-6.1080		6.1080		-90.0		
0.10		0.0002		0.3356		0.3356	90.0	0.0019	-2.9796		2.9796		-90.0		
0.15		0.0012		0.5265		0.5265	89.9	0.0044	-1.8993		1.8993		-89.9		
0.20		0.0049		0.7547		0.7547	89.6	0.0085	-1.3250		1.3250		-89.6		
0.25		0.0171		1.0593		1.0594	89.1	0.0152	-0.9438		0.9439		-89.1		
0.30		0.0642		1.5511		1.5524	87.6	0.0266	-0.6436		0.6442		-87.6		
0.35		0.3688		2.7301		2.7549	82.3	0.0486	-0.3597		0.3630		-82.3		
0.40		9.6503		1.2348		9.7290	7.3	0.1020	-0.0130		0.1028		-7.3		
0.45		0.6223		-1.2532		1.3992	-63.6	0.3179	0.6401		0.7147		63.6		
0.50		0.1880		-0.0805		0.2045	-23.2	4.4949	1.9237		4.8853		23.2		
0.55		0.0917		0.4783		0.4870	79.1	0.3868	-2.0166		2.0534		-79.1		
0.60		0.0550		0.8986		0.9003	86.5	0.0679	-1.1086		1.1107		-86.5		
0.65		0.0418		1.3031		1.3038	88.2	0.0246	-0.7666		0.7670		-88.2		
0.70		0.0489		1.7586		1.7593	88.4	0.0158	-0.5682		0.5684		-88.4		
0.75		0.0903		2.3383		2.3401	87.8	0.0165	-0.4270		0.4273		-87.8		
0.80		0.2161		3.1683		3.1757	86.1	0.0214	-0.3142		0.3149		-86.1		
0.85		0.6107		4.5256		4.5706	82.3	0.0292	-0.2168		0.2188		-82.3		
0.90		2.2105		7.1202		7.4554	72.8	0.0398	-0.1281		0.1341		-72.8		
0.95		11.1818		9.0836		14.4064	39.1	0.0539	-0.0438		0.0694		-39.1		
1.00		10.9067		-5.8557		12.3793	-28.2	0.0712	0.0382		0.0808		28.2		
1.05		3.9211		-5.1611		6.4817	-52.8	0.0933	0.1228		0.1543		-52.8		
1.10		2.0505		-3.5225		4.0759	-59.8	0.1234	0.2120		0.2453		-59.8		
1.15		1.3463		-2.5157		2.8533	-61.8	0.1654	0.3090		0.3505		-61.8		
1.20		1.0034		-1.8484		2.1031	-61.5	0.2268	0.4179		0.4755		-61.5		
1.25		0.8097		-1.3584		1.5814	-59.2	0.3238	0.5432		0.6323		-59.2		
1.30		0.6923		-0.9622		1.1854	-54.3	0.4927	0.6848		0.8436		-54.3		
1.35		0.6247		-0.6080		0.8718	-44.2	0.8220	0.8000		1.1471		-44.2		
1.40		0.6069		-0.2510		0.6568	-22.5	1.4070	0.5819		1.5226		-22.5		
1.45		0.6849		0.1668		0.7049	13.7	1.3784	-0.3358		1.4187		-13.7		
1.50		1.0926		0.6982		1.2966	32.6	0.6499	-0.4153		0.7713		-32.6		
1.55		2.4240		0.4554		2.4664	10.6	0.3985	-0.0749		0.4054		-10.6		
1.60		1.8794		-1.0309		2.1436	-28.7	0.4090	0.2244		0.4665		-28.7		
1.65		1.0593		-0.8909		1.3841	-40.1	0.5529	0.6650		0.7225		-40.1		
1.70		0.7567		-0.5923		0.9610	-38.0	0.8195	0.6414		1.0406		-38.0		
1.75		0.6215		-0.3487		0.7127	-29.3	1.2237	0.6866		1.4032		-29.3		
1.80		0.5491		-0.1467		0.5684	-15.0	1.6998	0.4540		1.7594		-15.0		
1.85		0.5067		0.0307		0.5077	3.5	1.9662	-0.1190		1.9698		-3.5		
1.90		0.4820		0.1918		0.5188	21.7	1.7910	-0.7127		1.9276		-21.7		
1.95		0.4578		0.3382		0.5692	36.5	1.4132	-1.0439		1.7569		-36.5		
2.00		0.3637		0.4531		0.5810	51.2	1.0775	-1.3422		1.7212		-51.2		
2.05		0.4292		0.6965		0.8181	58.4	0.6412	-1.0407		1.2223		-58.4		
2.10		0.4420		0.8962		0.9993	63.7	0.4426	-0.8975		1.0007		-63.7		

Sec VIII (L/2A = 2000) Table H

H)	SOURCE L/4 OFF CENTER, L/(LAMBDA)	G	B	MAG Y	ANG Y	Y=(-J/100)CUT(KL/4)	MMUS	AT CENTER	X	MAG Z	ANG Z
0.05	0.0000	0.1636	0.1636	0.1636	90.0	0.0005	0.0005	-6.1138	6.1138	-50.0	-50.0
0.10	0.0002	0.3342	0.3342	0.3342	90.0	0.0019	0.0019	-2.9919	2.9919	-90.0	-90.0
0.15	0.0012	0.5209	0.5209	0.5209	89.9	0.0043	0.0043	-1.9198	1.9198	-89.9	-89.9
0.20	0.0044	0.7370	0.7370	0.7371	89.7	0.0082	0.0082	-1.3567	1.3567	-89.7	-89.7
0.25	0.0143	1.0073	1.0073	1.0074	89.2	0.0141	0.0141	-0.9926	0.9927	-89.2	-89.2
0.30	0.0447	1.3858	1.3858	1.3855	88.2	0.0252	0.0252	-0.7209	0.7212	-88.2	-88.2
0.35	0.1513	2.0241	2.0241	2.0302	85.6	0.0382	0.0382	-0.4911	0.4926	-85.6	-85.6
0.40	0.8547	3.5212	3.5212	3.6235	76.4	0.0651	0.0651	-0.2682	0.2760	-76.4	-76.4
0.45	8.1068	0.6367	8.1318	8.1318	74.5	0.1226	0.1226	-0.0096	0.1230	-4.5	-4.5
0.50	1.2798	-1.6651	2.1001	2.1001	-52.5	0.2902	0.2902	0.3775	0.4762	52.5	52.5
0.55	0.4553	-0.4095	0.6125	0.6125	-42.0	1.2143	1.2143	1.0920	1.6331	42.0	42.0
0.60	0.2529	0.2466	0.3532	0.3532	44.3	2.0266	2.0266	-1.9767	2.8310	-44.3	-44.3
0.65	0.1746	0.7376	0.7580	0.7580	76.7	0.3039	0.3039	-1.2838	1.3153	-76.7	-76.7
0.70	0.1451	1.2073	1.2160	1.2160	83.1	0.0981	0.0981	-0.8165	0.8224	-83.1	-83.1
0.75	0.1547	1.7449	1.7518	1.7518	84.9	0.0504	0.0504	-0.5686	0.5709	-84.9	-84.9
0.80	0.2318	2.4620	2.4729	2.4729	84.6	0.0379	0.0379	-0.4026	0.4044	-84.6	-84.6
0.85	0.5002	3.5807	3.6154	3.6154	82.0	0.0383	0.0383	-0.2739	0.2766	-82.0	-82.0
0.90	1.5747	5.6510	5.8663	5.8663	74.4	0.0458	0.0458	-0.1642	0.1705	-74.4	-74.4
0.95	7.6130	8.4900	11.4035	11.4035	43.1	0.0585	0.0585	-0.0653	0.0877	-43.1	-43.1
1.00	10.9067	-5.8557	12.3793	12.3793	-28.2	0.0712	0.0712	0.0382	0.0808	28.2	28.2
1.05	3.3784	-4.6414	5.7407	5.7407	-53.9	0.1025	0.1025	0.1408	0.1742	-53.9	-53.9
1.10	1.7247	-2.9998	3.4603	3.4603	-60.1	0.1440	0.1440	0.2505	0.2890	-60.1	-60.1
1.15	1.1293	-2.0361	2.3284	2.3284	-61.0	0.2083	0.2083	0.3756	0.4295	-61.0	-61.0
1.20	0.8467	-1.3909	1.6284	1.6284	-58.7	0.3193	0.3193	0.5246	0.6141	-58.7	-58.7
1.25	0.6935	-0.8949	1.1321	1.1321	-52.2	0.5410	0.5410	0.6982	0.8833	-52.2	-52.2
1.30	0.6133	-0.4570	0.7648	0.7648	-36.7	1.0485	1.0485	0.7812	1.3075	-36.7	-36.7
1.35	0.6018	-0.0044	0.6018	0.6018	-0.4	1.6616	1.6616	0.0123	1.6616	0.4	0.4
1.40	0.7287	0.5596	0.9188	0.9188	37.5	0.8633	0.8633	-0.6629	1.0884	-37.5	-37.5
1.45	1.3872	1.3450	1.9322	1.9322	44.1	0.3716	0.3716	-0.3603	0.5175	-44.1	-44.1
1.50	3.6186	0.7066	3.6870	3.6870	11.0	0.2662	0.2662	-0.0520	0.2712	-11.0	-11.0
1.55	2.4030	-1.5608	2.8654	2.8654	-33.0	0.2927	0.2927	0.1901	0.3490	33.0	33.0
1.60	1.2637	-1.2722	1.7932	1.7932	-45.2	0.3930	0.3930	0.3956	0.5577	-45.2	-45.2
1.65	0.8683	-0.8781	1.2350	1.2350	-45.3	0.5694	0.5694	0.5758	0.8097	-45.3	-45.3
1.70	0.6925	-0.5605	0.9036	0.9036	-40.0	0.8481	0.8481	0.7110	1.1067	-40.0	-40.0
1.75	0.5975	-0.3456	0.6903	0.6903	-30.0	1.2541	1.2541	0.7253	1.4487	-30.0	-30.0
1.80	0.5402	-0.1474	0.5599	0.5599	-15.3	1.7231	1.7231	0.4701	1.7860	-15.3	-15.3
1.85	0.5039	0.0291	0.5048	0.5048	3.3	1.9779	1.9779	-0.1141	1.9812	-3.3	-3.3
1.90	0.4817	0.1906	0.5180	0.5180	21.6	1.7949	1.7949	-0.7103	1.9303	-21.6	-21.6
1.95	0.4582	0.3378	0.5693	0.5693	36.4	1.4140	1.4140	-1.0423	1.7567	-36.4	-36.4
2.00	0.3637	0.4531	0.5810	0.5810	51.2	1.0775	1.0775	-1.3422	1.7212	-51.2	-51.2
2.05	0.4275	0.6957	0.8165	0.8165	58.4	0.6412	0.6412	-1.0434	1.2247	-58.4	-58.4
2.10	0.4366	0.8917	0.9928	0.9928	63.9	0.4429	0.4429	-0.9046	1.0072	-63.9	-63.9

Set VIII (L/2A = 2000) Table I

1) SOURCE L/4 OFF CENTER, GROUND PLANE AT CENTER	B	C	MAG Y	ANG Y	K	X	MAG Z	ANG Z
L/(LAMBDA)								
0.05	0.0000	0.2141	0.2141	90.0	0.0006	-4.6710	4.6710	-90.0
0.10	0.0004	0.4400	0.4400	89.9	0.0021	-2.2726	2.2726	-89.9
0.15	0.0023	0.6924	0.6924	89.8	0.0047	-1.4442	1.4442	-89.8
0.20	0.0085	0.9929	0.9929	89.5	0.0086	-1.0071	1.0071	-89.5
0.25	0.0263	1.3788	1.3790	88.9	0.0138	-0.7251	0.7251	-88.9
0.30	0.0768	1.9251	1.9266	87.7	0.0207	-0.5186	0.5190	-87.7
0.35	0.2351	2.8100	2.8198	85.2	0.0296	-0.3534	0.3546	-85.2
0.40	0.8852	4.5603	4.6454	79.0	0.0410	-0.2113	0.2153	-79.0
0.45	5.7323	8.3474	10.1261	55.5	0.0559	-0.0814	0.0988	-55.5
0.50	9.8648	-5.7653	11.4260	-30.3	0.0756	0.0442	0.0875	30.3
0.55	2.5503	-4.2959	4.9959	-59.5	0.1022	0.1721	0.2002	59.3
0.60	1.2104	-2.6854	2.9456	-65.7	0.1395	0.3095	0.3395	65.7
0.65	0.7647	-1.8303	1.9836	-67.3	0.1944	0.4652	0.5041	67.3
0.70	0.5571	-1.2951	1.4098	-66.7	0.2803	0.6516	0.7093	66.7
0.75	0.4402	-0.9152	1.0155	-64.3	0.4268	0.8874	0.9847	64.3
0.80	0.3660	-0.6191	0.7192	-59.4	0.7075	1.1969	1.3903	59.4
0.85	0.3149	-0.3712	0.4868	-49.7	1.3290	1.5666	2.0544	49.7
0.90	0.2776	-0.1507	0.3159	-28.5	2.7823	1.5104	3.1659	28.5
0.95	0.2494	0.0559	0.2555	12.6	3.8187	-0.8555	3.9134	-12.6
1.00	0.2277	0.2590	0.3448	48.7	1.9148	-2.1780	2.9000	-48.7
1.05	0.2115	0.4683	0.5138	65.7	0.8012	-1.7736	1.9462	-65.7
1.10	0.2012	0.6945	0.7231	73.8	0.3848	-1.3284	1.3830	-73.8
1.15	0.1988	0.9523	0.9729	78.2	0.2100	-1.0062	1.0279	-78.2
1.20	0.2102	1.2643	1.2816	80.6	0.1280	-0.7697	0.7803	-80.6
1.25	0.2507	1.6699	1.6886	81.5	0.0879	-0.5856	0.5922	-81.5
1.30	0.3648	2.2470	2.2765	80.8	0.0704	-0.4336	0.4393	-80.8
1.35	0.7071	3.1651	3.2431	77.4	0.0672	-0.3009	0.3083	-77.4
1.40	1.9945	4.7394	5.1420	67.2	0.0754	-0.1793	0.1945	-67.2
1.45	7.3475	4.8408	8.7988	33.4	0.0949	-0.0625	0.1137	-33.4
1.50	6.6349	-2.8005	7.2017	-22.9	0.1279	0.0540	0.1389	22.9
1.55	2.8701	-2.7815	3.9968	-44.1	0.1797	0.1741	0.2502	44.1
1.60	1.6481	-1.9050	2.5190	-49.1	0.2597	0.3002	0.3970	49.1
1.65	1.1542	-1.2904	1.7313	-48.2	0.3851	0.4305	0.5776	48.2
1.70	0.9066	-0.8551	1.2463	-43.5	0.5837	0.5505	0.8024	43.3
1.75	0.7644	-0.5224	0.9259	-34.5	0.8917	0.6094	1.0800	34.3
1.80	0.6755	-0.2493	0.7200	-20.5	1.3029	0.4809	1.3888	20.3
1.85	0.6172	-0.0107	0.6173	-1.0	1.6197	0.0280	1.6200	1.0
1.90	0.5787	0.2097	0.6155	19.9	1.5276	-0.5535	1.6248	-19.9
1.95	0.5546	0.4236	0.6979	37.4	1.1387	-0.8699	1.4330	-37.4
2.00	0.5428	0.6416	0.8404	49.8	0.7685	-0.9084	1.1899	-49.8
2.05	0.5437	0.8745	1.0297	58.1	0.5128	-0.8247	0.9712	-58.1
2.10	0.5506	1.1357	1.2665	65.7	0.3495	-0.7080	0.7896	-63.7

Set VIII (L/2A = 2000) Table J

J) MUTUAL ADMITTANCES OR IMPEDANCES, SOURCE L/4 OFF CENTER, Y=0 AT CENTER, OUTPUT POINT L/4 FROM CENTER									
L/(LAMBDA)	G	B	MAG Y	ANG Y	R	X	MAG Z	ANG Z	
0.05	0.0000	0.0034	0.0034	90.0	0.1504	-293.1417	293.1417	-90.0	
0.10	0.0000	0.0071	0.0071	89.8	0.5539	-141.7425	141.7436	-89.8	
0.15	0.0001	0.0112	0.0112	89.5	1.1353	-89.4757	89.4829	-89.3	
0.20	0.0005	0.0160	0.0160	88.4	1.7899	-62.2830	62.3087	-88.4	
0.25	0.0012	0.0220	0.0220	86.9	2.4178	-45.3765	45.4409	-86.9	
0.30	0.0026	0.0294	0.0295	85.0	2.9406	-33.7958	33.9235	-85.0	
0.35	0.0050	0.0387	0.0390	82.6	3.3104	-25.3967	25.6115	-82.6	
0.40	0.0093	0.0507	0.0515	79.6	3.5070	-19.0828	19.4024	-79.6	
0.45	0.0164	0.0662	0.0682	76.1	3.5314	-14.2273	14.6590	-76.1	
0.50	0.0282	0.0866	0.0910	72.0	3.3992	-10.4449	10.9841	-72.0	
0.55	0.0476	0.1137	0.1232	67.3	3.1358	-7.4834	8.1139	-67.3	
0.60	0.0805	0.1502	0.1704	61.8	2.7712	-5.1714	5.8671	-61.8	
0.65	0.1381	0.2000	0.2431	55.4	2.3369	-3.3862	4.1143	-55.4	
0.70	0.2444	0.2670	0.3620	47.5	1.8651	-2.0381	2.7627	-47.5	
0.75	0.4557	0.3477	0.5732	37.3	1.3870	-1.0583	1.7446	-37.3	
0.80	0.9116	0.3842	0.9893	22.9	0.9315	-0.3926	1.0108	-22.9	
0.85	1.9028	-0.0131	1.9028	-0.4	0.5255	0.0036	0.5255	0.4	
0.90	2.9577	-2.5671	3.9164	-41.0	0.1928	0.1674	0.2553	41.0	
0.95	-2.3955	-6.8240	7.2322	70.7	-0.0458	0.1305	0.1383	-70.7	
1.00	-4.7607	2.1921	5.2411	-24.7	-0.1733	-0.0798	0.1908	24.7	
1.05	-0.7864	1.9573	2.1094	-68.1	-0.1767	-0.4399	0.4741	68.1	
1.10	-0.0554	1.0726	1.0740	-87.0	-0.0480	-0.9299	0.9311	87.0	
1.15	0.0898	0.6398	0.6461	82.0	0.2157	-1.5328	1.5479	-82.0	
1.20	0.1135	0.4166	0.4318	74.8	0.6086	-2.2345	2.3159	-74.8	
1.25	0.1079	0.2909	0.3103	69.7	1.1207	-3.0219	3.2230	-69.7	
1.30	0.0958	0.2149	0.2353	66.0	1.7314	-3.8819	4.2505	-66.0	
1.35	0.0837	0.1663	0.1862	63.3	2.4139	-4.7982	5.3712	-63.3	
1.40	0.0731	0.1341	0.1527	61.4	3.1356	-5.7495	6.5489	-61.4	
1.45	0.0645	0.1120	0.1292	60.1	3.8624	-6.7072	7.7399	-60.1	
1.50	0.0577	0.0965	0.1124	59.1	4.5640	-7.6360	8.8960	-59.1	
1.55	0.0525	0.0855	0.1003	58.4	5.2188	-8.4962	9.9710	-58.4	
1.60	0.0487	0.0775	0.0915	57.8	5.8191	-9.2489	10.9272	-57.8	
1.65	0.0462	0.0715	0.0852	57.1	6.3743	-9.8630	11.7435	-57.1	
1.70	0.0448	0.0669	0.0805	56.2	6.9157	-10.3263	12.4282	-56.2	
1.75	0.0441	0.0627	0.0766	54.9	7.5068	-10.6732	13.0487	-54.9	
1.80	0.0432	0.0581	0.0724	53.4	8.2342	-11.0801	13.8047	-53.4	
1.85	0.0394	0.0535	0.0664	53.6	8.9296	-12.1301	15.0625	-53.6	
1.90	0.0298	0.0551	0.0626	61.6	7.5932	-14.0506	15.9710	-61.6	
1.95	0.0302	0.0738	0.0797	67.7	4.7573	-11.6084	12.5454	-67.7	
2.00	0.0474	0.0719	0.0862	56.6	6.3871	-9.6899	11.6056	-56.6	
2.05	0.0488	0.0691	0.0846	54.8	6.8178	-9.6523	11.8173	-54.8	
2.10	0.0507	0.0724	0.0884	55.0	6.4927	-9.2670	11.3152	-55.0	

Set VIII ($L/2A = 2000$) Table K

MONOSTATIC AND BISYNTIC ECHO AREAS/($LAMBDA$ SQUARED)		S(D)		S(E)		S(F)		S(G)	
$L/(LAMBDA)$	S(A)	S(B)	S(C)	S(D)	S(E)	S(F)	S(G)	S(H)	S(I)
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.15	0.00001	0.00001	0.00001	0.00001	0.00000	0.00000	0.00000	0.00001	0.00001
0.20	0.00008	0.00007	0.00006	0.00004	0.00002	0.00000	0.00000	0.00007	0.00007
0.25	0.00038	0.00035	0.00027	0.00018	0.00009	0.00002	0.00000	0.00032	0.00032
0.30	0.00161	0.00148	0.00115	0.00073	0.00035	0.00009	0.00000	0.00136	0.00136
0.35	0.00681	0.00625	0.00480	0.00301	0.00141	0.00036	0.00009	0.00570	0.00570
0.40	0.03407	0.03112	0.02360	0.01452	0.00669	0.00169	0.00036	0.02827	0.02827
0.45	0.28468	0.25865	0.19326	0.11646	0.05255	0.01305	0.00036	0.23428	0.23428
0.50	0.61753	0.55780	0.41010	0.24157	0.10649	0.02598	0.00036	0.50506	0.50506
0.55	0.19750	0.17728	0.12810	0.07363	0.03164	0.00757	0.00036	0.16111	0.16111
0.60	0.11417	0.10181	0.07223	0.04046	0.01692	0.00397	0.00036	0.09345	0.09345
0.65	0.08671	0.07680	0.05347	0.02915	0.01185	0.00272	0.00036	0.07191	0.07191
0.70	0.07506	0.06603	0.04510	0.02393	0.00945	0.00212	0.00036	0.06407	0.06407
0.75	0.06975	0.06095	0.04085	0.02110	0.00810	0.00178	0.00036	0.06288	0.06288
0.80	0.06755	0.05865	0.03861	0.01944	0.00726	0.00156	0.00036	0.06724	0.06724
0.85	0.06705	0.05789	0.03751	0.01846	0.00673	0.00142	0.00036	0.08004	0.08004
0.90	0.06751	0.05802	0.03711	0.01793	0.00642	0.00134	0.00036	0.11402	0.11402
0.95	0.06847	0.05867	0.03723	0.01780	0.00630	0.00130	0.00036	0.20319	0.20319
1.00	0.06957	0.05960	0.03780	0.01805	0.00639	0.00132	0.00036	0.06862	0.06862
1.05	0.07046	0.06059	0.03882	0.01880	0.00675	0.00141	0.00036	0.00585	0.00585
1.10	0.07076	0.06145	0.04042	0.02025	0.00750	0.00160	0.00036	0.00334	0.00334
1.15	0.06994	0.06195	0.04285	0.02282	0.00890	0.00196	0.00036	0.00525	0.00525
1.20	0.06727	0.06177	0.04664	0.02735	0.01148	0.00263	0.00036	0.00682	0.00682
1.25	0.06168	0.06045	0.05288	0.03573	0.01647	0.00396	0.00036	0.00764	0.00764
1.30	0.05175	0.05721	0.06409	0.05283	0.02715	0.00683	0.00036	0.00773	0.00773
1.35	0.03768	0.05097	0.08729	0.09410	0.05435	0.01426	0.00036	0.00709	0.00709
1.40	0.04395	0.04402	0.14629	0.22407	0.14518	0.03936	0.00036	0.00617	0.00617
1.45	0.35391	0.10024	0.28025	0.67112	0.48259	0.13375	0.00036	0.01402	0.01402
1.50	0.71363	0.21499	0.11885	0.49644	0.38912	0.10901	0.00036	0.03000	0.03000
1.55	0.51468	0.18136	0.02203	0.18187	0.15201	0.04261	0.00036	0.02550	0.02550
1.60	0.41592	0.15984	0.00491	0.09225	0.08038	0.02235	0.00036	0.02314	0.02314
1.65	0.37167	0.14956	0.00120	0.05944	0.05290	0.01450	0.00036	0.02310	0.02310
1.70	0.35059	0.14444	0.00033	0.04450	0.03977	0.01070	0.00036	0.02521	0.02521
1.75	0.34084	0.14192	0.00016	0.03677	0.03261	0.00859	0.00036	0.03053	0.03053
1.80	0.33726	0.14086	0.00015	0.03252	0.02841	0.00733	0.00036	0.04264	0.04264
1.85	0.33723	0.14067	0.00016	0.03020	0.02591	0.00657	0.00036	0.07336	0.07336
1.90	0.33924	0.14109	0.00016	0.02908	0.02456	0.00615	0.00036	0.17042	0.17042
1.95	0.34222	0.14196	0.00015	0.02881	0.02412	0.00600	0.00036	0.40629	0.40629
2.00	0.34532	0.14526	0.00015	0.02924	0.02456	0.00612	0.00036	0.24039	0.24039
2.05	0.34764	0.14505	0.00018	0.03038	0.02602	0.00658	0.00036	0.10246	0.10246
2.10	0.34830	0.14749	0.00025	0.03238	0.02893	0.00751	0.00036	0.05899	0.05899

Set VIII (L/2A=2000) Table K (contd.)

L/(LAMBDA)	S(H)	S(I)	S(J)	S(K)	S(L)	S(M)	S(N)
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.15	0.00001	0.00001	0.00001	0.00000	0.00000	0.00000	0.00000
0.20	0.00006	0.00005	0.00004	0.00003	0.00001	0.00000	0.00002
0.25	0.00027	0.00025	0.00020	0.00013	0.00006	0.00002	0.00008
0.30	0.00115	0.00105	0.00081	0.00051	0.00024	0.00006	0.00032
0.35	0.00480	0.00435	0.00351	0.00205	0.00096	0.00024	0.00127
0.40	0.02360	0.02133	0.01601	0.00976	0.00447	0.00112	0.00593
0.45	0.19326	0.17455	0.12970	0.07777	0.03496	0.00866	0.04654
0.50	0.41010	0.37218	0.27484	0.16254	0.07187	0.01757	0.09628
0.55	0.12810	0.11777	0.08702	0.05102	0.02227	0.00539	0.03015
0.60	0.07223	0.06812	0.05089	0.02982	0.01293	0.00310	0.01778
0.65	0.05347	0.05272	0.04043	0.02396	0.01040	0.00249	0.01462
0.70	0.04510	0.04787	0.03851	0.02344	0.01030	0.00247	0.01489
0.75	0.04085	0.04886	0.04248	0.02706	0.01217	0.00295	0.01822
0.80	0.03861	0.05609	0.05481	0.03730	0.01734	0.00427	0.02700
0.85	0.03751	0.07535	0.08704	0.06453	0.03123	0.00781	0.05070
0.90	0.03711	0.13146	0.19085	0.15641	0.07896	0.02002	0.13370
0.95	0.03723	0.33003	0.64653	0.58964	0.30940	0.07933	0.54616
1.00	0.03780	0.20144	0.57501	0.58221	0.31526	0.08131	0.58006
1.05	0.03882	0.03878	0.17445	0.19417	0.10758	0.02778	0.20663
1.10	0.04042	0.01085	0.08306	0.10026	0.05642	0.01454	0.11360
1.15	0.04285	0.00384	0.05403	0.06988	0.03978	0.01021	0.08455
1.20	0.04664	0.00151	0.04309	0.05933	0.03417	0.00876	0.07744
1.25	0.05288	0.00061	0.04012	0.05898	0.03454	0.00887	0.08458
1.30	0.06409	0.00032	0.04311	0.06869	0.04131	0.01069	0.11093
1.35	0.08729	0.00077	0.05479	0.09750	0.06109	0.01605	0.18269
1.40	0.14629	0.00450	0.08871	0.18492	0.12274	0.03293	0.41496
1.45	0.28025	0.02802	0.16800	0.43954	0.31407	0.08642	1.21678
1.50	0.11885	0.03638	0.07146	0.25806	0.20085	0.05669	0.90265
1.55	0.02203	0.02063	0.01340	0.07571	0.06442	0.01857	0.34015
1.60	0.00491	0.01467	0.00303	0.03136	0.02897	0.00846	0.18284
1.65	0.00120	0.01224	0.00075	0.01696	0.01673	0.00490	0.12972
1.70	0.00033	0.01110	0.00021	0.01099	0.01132	0.00329	0.11265
1.75	0.00016	0.01049	0.00010	0.00808	0.00848	0.00243	0.11634
1.80	0.00015	0.01011	0.00009	0.00649	0.00680	0.00191	0.14381
1.85	0.00016	0.00984	0.00010	0.00584	0.00582	0.00160	0.22217
1.90	0.00016	0.01032	0.00010	0.00598	0.00619	0.00170	0.46281
1.95	0.00015	0.01651	0.00013	0.01221	0.01339	0.00382	0.98107
2.00	0.00015	0.01969	0.00015	0.01478	0.01628	0.00464	0.51287
2.05	0.00018	0.01737	0.00016	0.01254	0.01387	0.00395	0.19386
2.10	0.00025	0.01633	0.00022	0.01196	0.01372	0.00398	0.10082

Set VIII (L/2A=2000) Table K (contd.)

L/(LAMBDA)	S(O)	S(P)	S(Q)	S(R)	S(S)	S(T)	S(U)
0.05	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.10	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.20	0.00002	0.00002	0.00001	0.00001	0.00000	0.00000	0.00000
0.25	0.00009	0.00008	0.00006	0.00004	0.00002	0.00000	0.00000
0.30	0.00035	0.00032	0.00024	0.00015	0.00007	0.00002	0.00000
0.35	0.00141	0.00127	0.00096	0.00059	0.00027	0.00007	0.00002
0.40	0.00669	0.00600	0.00447	0.00270	0.00123	0.00031	0.00008
0.45	0.05255	0.04725	0.03496	0.02089	0.00936	0.00231	0.00057
0.50	0.10649	0.09700	0.07187	0.04263	0.01890	0.00463	0.00113
0.55	0.03164	0.02964	0.02227	0.01324	0.00584	0.00142	0.00035
0.60	0.01692	0.01667	0.01293	0.00781	0.00346	0.00084	0.00021
0.65	0.01185	0.01270	0.01040	0.00648	0.00292	0.00071	0.00018
0.70	0.00945	0.01156	0.01030	0.00674	0.00311	0.00077	0.00019
0.75	0.00810	0.01215	0.01217	0.00849	0.00404	0.00101	0.00025
0.80	0.00726	0.01489	0.01734	0.01302	0.00640	0.00162	0.00041
0.85	0.00673	0.02237	0.03123	0.02530	0.01280	0.00327	0.00084
0.90	0.00642	0.04614	0.07896	0.06880	0.03567	0.00915	0.00235
0.95	0.00630	0.14546	0.30940	0.28817	0.15229	0.03914	0.01006
1.00	0.00639	0.11826	0.31526	0.31206	0.16751	0.04306	0.01107
1.05	0.00675	0.03186	0.10758	0.11292	0.06156	0.01584	0.00408
1.10	0.00750	0.01289	0.05642	0.06304	0.03500	0.00903	0.00234
1.15	0.00890	0.00666	0.03978	0.04779	0.02719	0.00706	0.00184
1.20	0.01148	0.00378	0.03417	0.04486	0.02634	0.00690	0.00182
1.25	0.01647	0.00210	0.03454	0.05063	0.03091	0.00820	0.00219
1.30	0.02715	0.00106	0.04131	0.06921	0.04415	0.01186	0.00320
1.35	0.05435	0.00128	0.06109	0.11963	0.07991	0.02174	0.00594
1.40	0.14518	0.00845	0.12274	0.28627	0.20005	0.05499	0.01514
1.45	0.48259	0.06143	0.31407	0.88412	0.64448	0.17860	0.04950
1.50	0.38912	0.08589	0.20085	0.68838	0.52170	0.14549	0.04052
1.55	0.15201	0.05091	0.06442	0.27087	0.21303	0.05975	0.01676
1.60	0.08038	0.03830	0.02897	0.15136	0.12362	0.03491	0.00988
1.65	0.05290	0.03526	0.01673	0.11143	0.09489	0.02703	0.00773
1.70	0.03977	0.03792	0.01132	0.10061	0.08991	0.02592	0.00752
1.75	0.03261	0.04728	0.00848	0.10873	0.10281	0.03007	0.00885
1.80	0.02841	0.06978	0.00680	0.14205	0.14324	0.04258	0.01274
1.85	0.02591	0.12823	0.00582	0.23473	0.25399	0.07677	0.02330
1.90	0.02456	0.31700	0.00619	0.52914	0.61640	0.18923	0.05820
1.95	0.02412	0.79205	0.01339	1.22451	1.53605	0.47812	0.14880
2.00	0.02456	0.48085	0.01628	0.70144	0.94588	0.29801	0.09378
2.05	0.02602	0.20506	0.01387	0.26999	0.41959	0.13369	0.04256
2.10	0.02893	0.11768	0.01372	0.16393	0.25453	0.08204	0.02647

VI	ECHO AREAS/($L \cdot \lambda$) S(A)	$S(B)$	$S(C)$	LOADED SCATTERER	(BROADSIDE	INCIDENCE)	$S(H)$	$S(I)$
				$S(D)$	$S(E)$	$S(F)$		
0.05	0.60171	0.00000	0.00000	0.00000	0.00000	0.00000	0.15043	0.00000
0.10	0.69022	0.00000	0.00000	0.00000	0.00000	0.00000	0.17255	0.00000
0.15	0.71401	0.00002	0.00001	0.00000	0.00001	0.00000	0.17851	0.00001
0.20	0.72908	0.00031	0.00011	0.00001	0.00004	0.00002	0.18229	0.00008
0.25	0.74337	0.00154	0.00076	0.00002	0.00017	0.00009	0.18594	0.00037
0.30	0.75867	0.00056	0.00035	0.00007	0.00064	0.00031	0.19007	0.00156
0.35	0.77293	0.00026	0.00018	0.00018	0.00220	0.00094	0.19493	0.00635
0.40	0.76889	0.00008	0.00006	0.00046	0.00742	0.00271	0.20074	0.02768
0.45	0.54603	0.00000	0.00000	0.00106	0.02703	0.00761	0.20768	0.12258
0.50	0.24634	0.00000	0.00000	0.00233	0.12338	0.02209	0.21597	0.20142
0.55	0.70600	0.00014	0.00083	0.00496	0.70600	0.07063	0.22588	0.13215
0.60	0.83670	0.00081	0.00356	0.01040	0.61066	0.26944	0.23773	0.09355
0.65	0.92092	0.00272	0.00239	0.02183	0.27692	0.92092	0.25194	0.07658
0.70	1.00083	0.00743	0.00124	0.04674	0.17111	0.77957	0.26903	0.06874
0.75	1.08861	0.01869	0.00027	0.10430	0.13763	0.42875	0.28970	0.06522
0.80	1.19105	0.04602	0.00010	0.24782	0.11891	0.28749	0.31487	0.06402
0.85	1.31413	0.11649	0.00244	0.62091	0.10931	0.22430	0.34571	0.06417
0.90	1.46453	0.31671	0.01215	1.35124	0.10439	0.19199	0.38380	0.06512
0.95	1.65010	0.91362	0.04433	1.61346	0.10212	0.17416	0.43112	0.06652
1.00	1.87967	1.92061	0.15409	1.19485	0.10138	0.16406	0.49003	0.06809
1.05	2.16124	1.69732	0.58959	0.84673	0.10147	0.15848	0.56289	0.06957
1.10	2.49640	1.10129	2.16971	0.64622	0.10185	0.15457	0.65076	0.07071
1.15	2.86617	0.77183	2.30908	0.52989	0.10203	0.15457	0.75003	0.07121
1.20	3.20374	0.59862	1.25969	0.45866	0.10139	0.15440	0.84568	0.07082
1.25	3.36421	0.50014	0.80676	0.41299	0.09915	0.15454	0.90340	0.06954
1.30	3.15735	0.44005	0.60309	0.38277	0.09416	0.15434	0.87625	0.06877
1.35	2.53451	0.40154	0.49675	0.36247	0.08501	0.15304	0.74919	0.07655
1.40	1.73876	0.37614	0.43516	0.34884	0.07260	0.14990	0.58181	0.13142
1.45	0.83441	0.35921	0.39710	0.33989	0.09206	0.14592	0.45431	0.33367
1.50	0.16512	0.34800	0.37272	0.33432	0.39763	0.15912	0.38787	0.49792
1.55	0.23748	0.34083	0.35694	0.33126	0.52410	0.29271	0.35999	0.45584
1.60	0.28944	0.33657	0.34684	0.33007	0.42696	0.41058	0.34836	0.40017
1.65	0.31529	0.33445	0.34068	0.33030	0.37576	0.37995	0.34251	0.36694
1.70	0.32783	0.33391	0.33732	0.33156	0.35193	0.35396	0.33904	0.34915
1.75	0.33346	0.33447	0.33598	0.33347	0.34121	0.34182	0.33713	0.34046
1.80	0.33591	0.33574	0.33610	0.33557	0.33733	0.33745	0.33658	0.33720
1.85	0.33729	0.33726	0.33723	0.33728	0.33723	0.33724	0.33726	0.33723
1.90	0.33869	0.33873	0.33900	0.33867	0.33923	0.33921	0.33896	0.33922
1.95	0.34068	0.34061	0.34108	0.34081	0.34219	0.34214	0.34145	0.34202
2.00	0.34366	0.34325	0.34343	0.34353	0.34526	0.34514	0.34449	0.34509
2.05	0.34812	0.34584	0.34611	0.34596	0.34757	0.34738	0.34790	0.34770
2.10	0.35507	0.34770	0.34856	0.34753	0.34816	0.34796	0.35168	0.34852

VIII	PRIMED CENTER L/(λ BDA)	ADMITTANCE PARAMETERS				NORMAL INCIDENCE			
		LOADED RE DY11	SCATTERER, IM DY11	RE Y12	IM Y12	LOADED RE DY11	SCATTERER, IM DY11	RE Y12	IM Y12
	0.05	0.00000	0.00000	0.00004	0.00000	0.00251	0.01038	0.00000	0.00251
	0.10	0.00000	0.00000	0.00035	0.00001	0.01038	0.02483	0.00001	0.01038
	0.15	0.00001	0.000127	0.00127	0.00010	0.02483	0.04839	0.00010	0.02483
	0.20	0.00003	0.000328	0.00328	0.00050	0.04839	0.08612	0.00050	0.04839
	0.25	0.00016	0.00727	0.00727	0.00193	0.08612	0.14888	0.00193	0.08612
	0.30	0.00069	0.01500	0.01500	0.00684	0.14888	0.26334	0.00684	0.14888
	0.35	0.00287	0.03076	0.03076	0.02466	0.26334	0.51057	0.02466	0.26334
	0.40	0.01418	0.06764	0.06764	0.10727	0.51057	1.09716	0.10727	0.51057
	0.45	0.11672	0.16213	0.16213	0.79105	1.09716	-0.96583	0.79105	-0.96583
	0.50	0.24913	-0.15654	0.15654	1.53312	-0.96583	-0.83288	1.53312	-0.83288
	0.55	0.07834	-0.14680	0.14680	0.44246	-0.83288	-0.62482	0.44246	-0.62482
	0.60	0.04450	-0.11843	0.11843	0.23276	-0.62482	-0.52070	0.23276	-0.52070
	0.65	0.03321	-0.10513	0.10513	0.16206	-0.52070	-0.46248	0.16206	-0.46248
	0.70	0.02825	-0.09861	0.09861	0.12947	-0.46248	-0.42747	0.12947	-0.42747
	0.75	0.02581	-0.09546	0.09546	0.11172	-0.42747	-0.40591	0.11172	-0.40591
	0.80	0.02462	-0.09415	0.09415	0.10107	-0.40591	-0.39313	0.10107	-0.39313
	0.85	0.02410	-0.09391	0.09391	0.09428	-0.39313	-0.38671	0.09428	-0.38671
	0.90	0.02401	-0.09428	0.09428	0.08975	-0.38671	-0.38549	0.08975	-0.38549
	0.95	0.02420	-0.09494	0.09494	0.08662	-0.38549	-0.38903	0.08662	-0.38903
	1.00	0.02457	-0.09565	0.09565	0.08434	-0.38903	-0.39750	0.08434	-0.39750
	1.05	0.02510	-0.09617	0.09617	0.08249	-0.39750	-0.41173	0.08249	-0.41173
	1.10	0.02577	-0.09621	0.09621	0.08064	-0.41173	-0.43346	0.08064	-0.43346
	1.15	0.02661	-0.09538	0.09538	0.07815	-0.43346	-0.46594	0.07815	-0.46594
	1.20	0.02774	-0.09307	0.09307	0.07386	-0.46594	-0.51544	0.07386	-0.51544
	1.25	0.02951	-0.08818	0.08818	0.06499	-0.51544	-0.59477	0.06499	-0.59477
	1.30	0.03300	-0.07852	0.07852	0.04392	-0.59477	-0.73219	0.04392	-0.73219
	1.35	0.04211	-0.05924	0.05924	-0.01573	-0.73219	-0.98028	-0.01573	-0.98028
	1.40	0.07575	-0.02056	0.02056	-0.23550	-0.98028	-0.97639	-0.23550	-0.97639
	1.45	0.22224	-0.01493	0.01493	-1.14183	-0.97639	0.33317	-1.14183	0.33317
	1.50	0.21736	-0.022978	0.022978	-1.01633	0.33317	0.21403	-1.01633	0.21403
	1.55	0.11659	-0.24200	0.24200	-0.37975	0.21403	0.12877	-0.37975	0.12877
	1.60	0.08336	-0.22663	0.22663	-0.17382	0.12877	0.07513	-0.17382	0.07513
	1.65	0.07034	-0.21716	0.21716	-0.09073	0.07513	0.04041	-0.09073	0.04041
	1.70	0.06431	-0.21216	0.21216	-0.04903	0.04041	0.01776	-0.04903	0.01776
	1.75	0.06132	-0.20982	0.20982	-0.02490	0.01776	0.00349	-0.02490	0.00349
	1.80	0.05987	-0.20904	0.20904	-0.00949	0.00349	-0.00436	-0.00949	-0.00436
	1.85	0.05929	-0.20919	0.20919	0.00108	-0.00436	-0.00673	0.00108	-0.00673
	1.90	0.05926	-0.20987	0.20987	0.00878	-0.00673	-0.00386	0.00878	-0.00386
	1.95	0.05959	-0.21077	0.21077	0.01474	-0.00386	-0.00466	0.01474	-0.00466
	2.00	0.06019	-0.21163	0.21163	0.01971	-0.00466	-0.02002	0.01971	-0.02002
	2.05	0.06101	-0.21218	0.21218	0.02431	-0.02002	0.00466	0.02431	0.00466
	2.10	0.06205	-0.21208	0.21208	0.02924	0.00466	0.02002	0.02924	0.02002

APPENDIX A

COMPUTER PROGRAM NO. 1

This program is for computing the impedance and admittance matrices for thin linear wires.

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** T OPERATOR      THERE WILL BE PUNCHED OUTPUT
** H MCUN1 TAPE 2017 ON DRIVE 14 WITH KING IN
*   EXECUTE FORTRAN, DUMP
2000      SUBROUTINE CRLIN(FZ1,FZ2,G1,NG,NS,NZ4,NZ3,B1,B2)
          DIMENSION FZ1(528),FZ2(528),G1(129)
2006      I=1+1
2009      B1=0
2012      B2=0
2015      LI=-NS+1/74
2018      IF(LI) 3,3,4
2021      4 LL2=1+X SIN(LI,NG)
2028      M=NZ4+1-LI
2032      L=1
2034      B1=FZ1(M)*G1(L)/2.+B1
2044      B2=FZ2(M)*G1(L)/2.+B2
2052      M=M+1
2055      LZM=LL2-1
2058      IF(LZM-L) 2,2,28
2067      28 DO 5 L=2,LZM
2066      B1=FZ1(M)*G1(L)+B1
2074      B2=FZ2(M)*G1(L)+B2
2080      M=M+1
2083      5 CONTINUE
2084      2 IF(LZ2-L) 3,3,30
2088      30 L=LL2
2090      B1=FZ1(M)*G1(L)/2.+B1
2100      B2=FZ2(M)*G1(L)/2.+B2
2108      3 IF(LI-NG) 9,8,8
2113      9 IF(LI) 1,6,6
2117      1 LL1=1
2119      M=NZ4+2-L1/NZ3

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2127      GU TO 7
2128      6 LL1=L1+1
2131      M=NZ4+2
2134      7 LL2=NG+1
2137      L=LL1
2139      B1=FZ1(M)*G1(L)/2.+B1
2149      B2=FZ2(M)*G1(L)/2.+B2
2157      M=M+1
2160      L2M=LL2-NZ3
2163      IF(L2M-L) 31,31,32
2167      32 L1M=LL1+NZ3
2170      DO 10 L=L1M,L2M,NZ3
2177      B1=FZ1(M)*G1(L)+B1
2185      B2=FZ2(M)*G1(L)+B2
2191      M=M+1
2194      10 CONTINUE
2196      31 IF(LL2-L) 8,8,33
2200      33 L=LL2
2202      B1=FZ1(M)*G1(L)/2.+B1
2212      B2=FZ2(M)*G1(L)/2.+B2
2220      8 L2=-L1
2222      IF(L2) 11,11,12
2225      12 LL2=1+XMINF(NG,L2)
2232      M=NZ4+2+L2/NZ3
2240      L=1
2242      B1=FZ1(M)*G1(L)/2.+B1
2252      B2=FZ2(M)*G1(L)/2.+B2
2260      M=M-1
2263      L2M=LL2-NZ3
2266      IF(L2M-L) 35,35,36
2270      36 L1M=1+NZ3
2273      DO 13 L=L1M,L2M,NZ3
2280      B1=FZ1(M)*G1(L)+B1
2288      B2=FZ2(M)*G1(L)+B2
2294      M=M-1
2297      13 CONTINUE
2299      35 IF(LL2-L) 11,11,38
2303      38 L=LL2
2305      B1=FZ1(M)*G1(L)/2.+B1
2315      B2=FZ2(M)*G1(L)/2.+B2
2323      11 L3A=L2+NZ4
2326      L3B=L3A+NZ4
2329      IF(L2-NG) 15,14,14
2334      15 IF(L3A) 41,41,52
2337      52 IF(L2) 16,16,17
2341      16 LL1=1
2343      M=NZ4+1+L2
2347      GO TO 18
2348      17 LL1=L2+1
2351      M=NZ4+1
2354      18 MM=1+XMINF(L3A,NG)
2361      L=LL1
2363      B1=FZ1(M)*G1(L)/2.+B1
2373      B2=FZ2(M)*G1(L)/2.+B2
2381      M=M-1
2384      L2M=MM-1
2387      IF(L2M-L) 39,39,40

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```

2391      40 LIM=LL1+1
2394      DO 21 L=L1M,L2M
2399          B1=FZ1(M)*G1(L)+B1
2407          B2=FZ2(M)*G1(L)+B2
2413          M=M-1
2416      21 CONTINUE
2417      39 IF(MM-L) 41,41,42
2421      42 L=MM
2423          B1=FZ1(M)*G1(L)/2.+B1
2433          B2=FZ2(M)*G1(L)/2.+B2
2441      41 IF(L3A-NG) 23,14,14
2446      23 LL1=L3A+1
2449          M=1
2451          MM=1+XMINF(L3B,NG)
2458          L=LL1
2460          B1=FZ1(M)*G1(L)/2.+B1
2470          B2=FZ2(M)*G1(L)/2.+B2
2478          M=M+1
2481          L2M=MM-1
2484          IF(L2M-L) 44,44,45
2488      43 LIM=LL1+1
2491      DO 24 L=L1M,L2M
2496          B1=FZ1(M)*G1(L)+B1
2504          B2=FZ2(M)*G1(L)+B2
2510          M=M+1
2513      24 CONTINUE
2514      44 IF(MM-L) 14,14,50
2518      50 L=MM
2520          B1=FZ1(M)*G1(L)/2.+B1
2530          B2=FZ2(M)*G1(L)/2.+B2
2538      14 IF(L3B-NG) 25,26,26
2543      25 LL1=L3B+1
2546          LL2=NG+1
2549          M=NZ4+2
2552          L=LL1
2554          B1=FZ1(M)*G1(L)/2.+B1
2564          B2=FZ2(M)*G1(L)/2.+B2
2572          M=M+1
2575          L2M=LL2-NZ3
2578          IF(L2M-L) 45,45,46
2582      46 LIM=LL1+NZ3
2585      DO 27 L=L1M,L2M,NZ3
2592          B1=FZ1(M)*G1(L)+B1
2600          B2=FZ2(M)*G1(L)+B2
2606          M=M+1
2609      27 CONTINUE
2611      45 IF(LL2-L) 26,26,48
2615      48 L=LL2
2617          B1=FZ1(M)*G1(L)/2.+B1
2627          B2=FZ2(M)*G1(L)/2.+B2
2635      26 CONTINUE
2635      RETURN
2635      END
2674      SUBROUTINE LINEQ(LL,C1,C2)
2680          DIMENSION AR1(32),AR2(32),C1(528),C2(528)
2682          M1=0
2682          DO 18 M=1,LL

```

```

2686      M2=M1+M
2689      ST1=C1(M2)
2693      ST2=C2(M2)
2697      C1(M2)=1.
2699      C2(M2)=0
2702      D=ST1*ST1+ST2*ST2
2709      DO 7 J=1,M
2713      M2=M1+J
2716      AR1(J)=(C1(M2)*ST1+C2(M2)*ST2)/D
2729      AR2(J)=(C2(M2)*ST1-C1(M2)*ST2)/D
2738      7 CONTINUE
2739      IF(LL-M) 22,21,22
2742      22 MP1=M+1
2745      M2=M2+M
2748      DO 23 J=MP1,LL
2753      AR1(J)=(C1(M2)*ST1+C2(M2)*ST2)/D
2766      AR2(J)=(C2(M2)*ST1-C1(M2)*ST2)/D
2775      M2=M2+J
2778      23 CONTINUE
2779      21 I1=0
2781      DO 11 I=1,LL
2785      IF(I-M) 12,13,24
2790      12 M2=M1+I
2793      ST1=-C1(M2)
2797      ST2=-C2(M2)
2801      C1(M2)=AR1(I)
2803      C2(M2)=AR2(I)
2805      GO TO 25
2806      24 M2=I1+M
2809      ST1=C1(M2)
2813      ST2=C2(M2)
2817      C1(M2)=0
2820      C2(M2)=0
2823      25 DO 10 J=1,I
2827      M2=I1+J
2830      C1(M2)=C1(M2)-AR1(J)*ST1+AR2(J)*ST2
2840      C2(M2)=C2(M2)-AR2(J)*ST1-AR1(J)*ST2
2850      10 CONTINUE
2851      13 I1=I1+I
2854      11 CONTINUE
2855      M1=M1+M
2858      C1(M1)=AR1(M)
2862      C2(M1)=AR2(M)
2866      18 CONTINUE
2867      RETURN
      END
2963      SUBROUTINE DSPKS(N,CC1,CC2,B1,B2)
      DIMENSION CC1(64),CC2(64),B1(64),B2(64)
      COMMON PI,AWE,A22,BKA,BKA2,BKA3
2969      AW=A22/AWE
2973      NP=N+1
2976      W1=CC1(1)
2978      W2=CC2(1)
2980      CC1(1)=-((CC2(2)-W2)*2.*AW
2986      CC2(1)=(CC1(2)-W1)*2.*AW
2991      S=B1(1)
2993      B1(1)=-B2(1)*BKA2/AWE

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```

2999      B2(I)=S*BKA2/AWE
3004      DO 70 I=2,N
3008      W3=CC1(I)
3012      W4=CC2(I)
3016      S=B1(I)
3020      IP=I+1
3023      CC1(I)=-(CC2(IP)-2.*W4+W2)*AW
3032      CC2(I)=(CC1(IP)-2.*W3+W1)*AW
3040      B1(I)=-B2(I)*BKA2/AWE
3048      B2(I)=S*BKA2/AWE
3053      W1=W3
3055      W2=W4
3057      70 CONTINUE
3058      DO 72 I=1,N
3062      CC1(I)=CC1(I)+B1(I)
3069      CC2(I)=CC2(I)+B2(I)
3076      72 CONTINUE
3077      WRITE OUTPUT TAPE 5,1, (CC1(I),I=1,N)
3090      WRITE OUTPUT TAPE 5,1, (CC2(I),I=1,N)
3104      1 FORMAT(8E15.8)
3105      DO 71 I=1,N
3110      CC1(I)=CC1(I)/A22
3116      CC2(I)=CC2(I)/A22
3122      71 CONTINUE
3123      RETURN
      END
3157      SUBROUTINE ELPTC(NZ4,NZ5,NZ6,DZ,FNZ3,IBK)
      DIMENSION IK(305),IE(305),AY1(305),AY2(305),AY3(305),AY4(305)

```

TOA=L/A

NZ1=MESH OF (0,L/A)

NZ2=NO. OF INTERVALS REQUIRING FINER MESH

NZ3=MESH RATIO

```

      COMMON PI,AWE,A22,BKA,BKA2,BKA3
      COMMON AS1,AS2,AS3,AS4,AY1,AY2,AY3,AY4
3163      DZ1=DZ/FNZ3
3167      II=0
3169      E0=1.
3171      DO 11 I=1,NZ5
3175      Z2=DZ1*FLOAT(I-II)
3180      Z22=Z2*Z2
3183      TP2=Z22/(1.+Z22)
3188      TP=SQRT(TP2)
3191      IF(TP2-.111) 1,19,19
3195      19 IF(IBK) 15,20,15
3198      20 IBK=1
3200      IF(IBK-1) 1,10,1
3204      10 IF(TP2-.15) 1,1,7
3208      7 IBK=0
3210      RETURN
3211      1 TG=LUGE(4./TP)
3216      TP22=TP2*TP2
3219      ZE=1.+5*(TG-.5)*TP2+3./16.*(TG-13./12.)*TP22+15./128.*(TG
      1-6./5.)*TP22*TP2

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3258      ZS=Z2-DZ1/2.
3263      Z1=Z2-DZ1
3266      R2=1.+ZS*ZS
3270      R=SQRTF(R2)
3273      IF(ZS-DZ1) 2,3,3
3278      2 TG1=0
3281      GO TO 4
3282      3 TG1=LOGEF(Z1)
3285      4 TG2=LOGEF(Z2)
3288      TGR=LOGEF(4.*R)
3292      Z12=Z1*Z1
3295      Z13=Z12*Z1
3298      Z15=Z13*Z12
3301      Z17=Z15*Z12
3304      Z22=Z2*Z2
3307      Z23=Z22*Z2
3310      Z25=Z23*Z22
3313      Z27=Z25*Z22
3315      S1=((Z2-Z1)*TGR-Z2*(TG2-1.))+Z1*(TG1-1.)
3334      S2=1./R2*((Z23-Z13)/3.*TGR-Z23/3.*(TG2-1./3.))+Z13/3.*(TG1-1./3.)
3373      R22=R2*R2
3376      S3=1./R22*((Z25-Z15)/5.*TGR-Z25/5.*(TG2-.2))+Z15/5.*(TG1-.2)
3411      S4=1./R22/R2*((Z27-Z17)/7.*TGR-Z27/7.*(TG2-1./7.))+Z17/7.*(TG1-1./
17.)
3452      TK(I)=S1+.25*(S2-(Z23/3.-Z13/3.)/R2)+9./64.*(S3-7./6.*(Z25/5.
1-Z15/5.)/R22)+25./256.*(S4-37./30.*(Z27/7.-Z17/7.)/R22/R2)
3525      TK(I)=TK(I)/DZ1
3529      TE(I)=(E0+ZE)/2.
3534      E0=ZE
3536      AY1(I)=TK(I)/R
3540      AY2(I)=-PI/2.
3544      AY3(I)=-.5*R*TE(I)
3548      AY4(I)=PI/12.*(R2-.5)
3556      IF(IRK-I) 18,13,18
3560      13 AS1=AY1(I)
3562      AS2=AY2(I)
3564      AS3=AY3(I)
3566      AS4=AY4(I)
3568      15 TK(I)=0
3571      TE(I)=0
3574      R=Z2/TP
3578      R2=R*R
3581      IF(Z2-3.) 9,22,22
3586      9 SM1=(1.-TP)/(1.+TP)
3594      SK=1.
3596      SM2=SM1*SM1
3599      SM=SM2
3601      21 DU 5 J=1,15
3604      FJ=2*J-1
3609      FJ1=FJ+1.
3612      SK=FJ*FJ/FJ1/FJ1*SK
3620      TK(I)=TK(I)+SK*SM
3624      SE=SK/FJ/FJ
3630      TE(I)=TE(I)+SE*SM
3634      SM=SM*SM2
3637      IF(SK*SM-1.E-7) 16,16,5
3642      5 CONTINUE

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```

3643      STOP 5
3645      16 TK(I)=PI/2.*(1.+SM1)*(TK(I)+1.)
3657      TE(I)=PI/2./(1.+SM1)*(TE(I)+1.)
3670      AY1(I)=TK(I)/R
3674      AY2(I)=-PI/2.+Z2*TK(I)/R
3684      AY3(I)=-.5*(R*TE(I)-Z2*PI+Z22*TK(I)/R)
3699      AY4(I)=1./6.*(PI/2.*(R2-.5)-3.*Z2*R*TE(I)+3.*
      1Z22*PI/2.-Z22*Z2*TK(I)/R)
3736      GO TO 18
3737      22 R3=R2*R
3740      R4=R3*R
3743      R5=R4*R
3746      R6=R5*R
3749      R7=R6*R
3752      AY1(I)=PI/2.*(1./R+.25/R3+9./64./R5+25./256./R7)
3780      AY2(I)=PI/2.*(-.25/R2-7./64./R4-17./256./R6)
3803      AY3(I)=-PI/4.*(3./32./R3+1./16./R5)
3821      AY4(I)=PI*5./1536./R4
3828      18 IF(I-NZ4) 11,17,11
3832      17 DZ1=DZ1*FNZ3
3835      II=NZ6
3837      11 CONTINUE
3838      IF(I-303) 12,12,8
3842      8 STOP 8
3844      12 RETURN
      END
4524      SUBROUTINE EVODD(N,IS,CC1,CC2,F11,F12,FZ1,FZ2)
      DIMENSION F11(528),F12(528),FZ1(528),FZ2(528),CC1(64),CC2(64)
      DIMENSION AY1(305),AY2(305),AY3(305),AY4(305)
      COMMON PI,AWE,A22,BKA,BKA2,BKA3
      CUMMON AS1,AS2,AS3,AS4,AY1,AY2,AY3,AY4
4530      NZ=(N+1)/2
4535      K=0
4537      DO 25 I=1,N2
4541      DO 25 J=1,I
4545      J1=XABSF(I-J)+1
4550      J2=N+2-I-J
4555      K=K+1
4558      F11(K)=CC1(J1)+CC1(J2)
4567      F12(K)=CC2(J1)+CC2(J2)
4576      25 CONTINUE
4578      NZ1=N2-1
4581      K=0
4583      DO 26 I=1,N21
4587      DO 26 J=1,I
4591      J1=XABSF(I-J)+1
4596      J2=N+2-I-J
4601      K=K+1
4604      FZ1(K)=CC1(J1)-CC1(J2)
4613      FZ2(K)=CC2(J1)-CC2(J2)
4622      26 CONTINUE
4624      CALL LINEQ(N2,F11,F12)
4629      CALL LINEQ(N21,FZ1,FZ2)
4634      CALL CMBTN(N2,N21,IS,F11,FZ1,CC1)
4643      PRINT 3
4647      3 FORMAT(/23X32HSUSCEPTANCES (MILLIAMPERES/VOLT))
4655      CALL CMBTN(N2,N21,IS,F12,FZ2,CC2)

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4665     PUNCH 5, CC2(8)
4671     5 FORMAT(E15.8)
4672     DO 2 I=1,8
4676     D=CC1(I)*CC1(I)+CC2(I)*CC2(I)
4687     CC1(I)=CC1(I)/D
4691     CC2(I)=-CC2(I)/D
4695     2 CONTINUE
4696     PRINT 1
4700     1 FORMAT(/25X29HINPUT RESISTANCES (KILO-OHMS))
4707     PRINT 33, (CC1(I),I=1,8)
4720     33 FORMAT(8(F8.4,2X))
4722     PRINT 4
4727     4 FORMAT(/25X28HINPUT REACTANCES (KILO-OHMS))
4734     PRINT 33, (CC2(I),I=1,8)
4746     RETURN
4784     END
4784     SUBROUTINE CMBJN(N2,N21,IS,E1,O1,CC1)
4784     DIMENSION E1(528),O1(528),C1(32),CC1(64)
4790     S=1.
4792     L=0
4794     5 DO 32 I=1,N21
4798     IF(S) 2,2,3
4801     3 K2=(I*(I-1))/2
4809     I1=I
4811     IP=I1+1
4814     GO TO 4
4815     2 K2=(I*(N2-I)*(N2-I-1))/2
4827     I1=N2-I
4830     IP=I1+1
4833     4 DO 28 K=1,I1
4837     K2=K2+1
4840     C1(K)=(E1(K2)+S*O1(K2))/2.
4850     28 CONTINUE
4851     K2=K2+K
4854     IF(K=N21) 61,7,61
4857     61 DO 29 K=IP,N21
4862     C1(K)=(E1(K2)+S*O1(K2))/2.
4872     K2=K2+K
4875     29 CONTINUE
4876     7 C1(N2)=E1(K2)
4881     IF((10*I)/IS-1/IS*10) 11,9,11
4894     9 PRINT 33, (C1(J),J=1S,N2,IS)
4909     33 FORMAT(8(F8.4,2X))
4911     L=L+1
4915     CC1(L)=C1(11)
4920     11 WRITE OUTPUT TAPE 5,1, (C1(J),J=1,N2)
4932     1 FORMAT(8E15.8)
4933     32 CONTINUE
4935     IF(S) 6,8,8
4938     8 K2=(N21*N2)/2+1
4944     DO 60 K=1,N21
4948     C1(K)=E1(K2)
4952     K2=K2+1
4955     60 CONTINUE
4956     C1(N2)=2.*E1(K2)
4962     PRINT 33, (C1(J),J=1S,N2,IS)
4976     L=L+1

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4979      CCl(L)=C1(N2)
4984      WRITE OUTPUT TAPE 5,1,(C1(J),J=1,N2)
4995      IF(S) 6,10,10
4998      10 S=-1.
5000      GO TO 5
5001      6 RETURN
      END
5066      SUBROUTINE FOFZT(DZ,FNZ3,NZ5,FZC,NZ6,NZ4,IBK,FI1,FI2,FZ1,FZ2)
      DIMENSION FI1(528),FI2(528),FZ1(528),FZ2(528)
      DIMENSION AY1(305),AY2(305),AY3(305),AY4(305)
      COMMON PI,AWE,A22,BKA,BKA2,BKA3
      COMMON AS1,AS2,AS3,AS4,AY1,AY2,AY3,AY4
5072      DZ1=DZ/FNZ3
5076      II=0
5078      I2=1
5080      DO 10 I=1,NZ5
5084      I2M=I2
5086      I2=I2+1
5089      IF(I-IBK) 19,1,20
5094      1 FI1(I2M)=FZC*(AS1+BKA2*AS3)
5101      FI2(I2M)=FZC*(BKA*AS2+BKA3*AS4)
5111      GO TO 20
5112      19 FI1(I2M)=FZC*(AY1(I)+BKA2*AY3(I))
5119      FI2(I2M)=FZC*(BKA*AY2(I)+BKA3*AY4(I))
5129      GO TO 2
5130      20 Z2=DZ1*FLOAT(I-II)
5135      F1=FZC*(AY1(I)+BKA2*AY3(I))
5140      F2=FZC*(BKA*AY2(I)+BKA3*AY4(I))
5148      B=BKA*Z2
5151      BC=COSF(B)
5154      BS=SINF(B)
5157      FZ1(I2)=F1*BC+F2*BS
5166      FZ2(I2)=F2*BC-F1*BS
5175      2 IF(I-NZ4) 10,13,10
5179      13 DZ1=DZ1*FNZ3
5182      I2=I2+1
5185      II=I2
5187      10 CONTINUE
5188      I=0
5190      FD=FNZ3
5192      FD2=FNZ3*2.
5195      FZ1(1)=FI1(1)/FD
5199      FZ2(1)=FI2(1)/FD
5203      IP=1
5205      IF(I-IBK-2) 23,24,24
5209      24 IM=IBK-1
5212      DO 17 I=1,IM
5216      IPM=IP
5218      IP=IP+1
5221      IF(I-NZ4) 27,3,27
5225      3 FZ1(IP)=(FI1(IPM)+FI1(IP+1))/FD2
5236      FZ2(IP)=(FI2(IPM)+FI2(IP+1))/FD2
5247      IP=IP+1
5250      IPM=IP-1
5253      FZ1(IP)=FZ1(IPM)*FD
5260      FZ2(IP)=FZ2(IPM)*FD
5267      FD2=2.

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5269      GO TO 17
5270 27 FZ1(IP)=(F11(IPM)+F11(IP))/FD2
5281    FZ2(IP)=(F12(IPM)+F12(IP))/FD2
5292 17 CONTINUE
5293 23 IPM=IP
5295    I=I+1
5298    IP=IP+1
5301    IF(I-NZ4) 5,6,5
5305 6 S1=FZ1(IP)
5309    S2=FZ2(IP)
5313    FZ1(IP)=(F11(IPM)+FZ1(IP))/FD2
5320    FZ2(IP)=(F12(IPM)+FZ2(IP))/FD2
5327    IP=IP+1
5330    FZ1(IP)=S1
5334    FZ2(IP)=S2
5338    GO TO 26
5339 5 FZ1(IP)=(F11(IPM)+FZ1(IP))/FD2
5348    FZ2(IP)=(F12(IPM)+FZ2(IP))/FD2
5357 9 IBKK=IBKK+1
5360    IF(IBKK-NZ4) 22,22,26
5365 22 DO 25 I=IBKK,NZ4
5370    IP=IP+1
5373    FZ1(IP)=FZ1(IP)/FD
5379    FZ2(IP)=FZ2(IP)/FD
5385 25 CONTINUE
5386    FZ1(IP+1)=FZ1(IP)*FD
5389    FZ2(IP+1)=FZ2(IP)*FD
5392 26 RETURN
      END
      DIMENSION FZ1(528),FZ2(528),AY1(305),AY2(305),AY3(305),AY4(305)
      DIMENSION F11(528),F12(528)
      COMMON PI,AWE,A22,BKA,BKA2,BKA3
      COMMON AS1,AS2,AS3,AS4,AY1,AY2,AY3,AY4
5445 RFWIND 5
5447 PI=3.1415926
5449 FZC=1./2./PI/PI
5457 WWO=0
5460 NGO=0
5462 98 READ 1, 99, TOD,WLG,N,NZ1,NZ2,NZ3,METH
5475 1 FORMAT(2E15.8,5I3)
5477 NP=N+1
5481 IS=NP/16
5485 4 FNP=N+1
5489 NI=NZ1/NP
5493 2 NG=NI*NZ3
5496 OM=2.*LOGEF(TOD*2.)
5501 A2=FNP/TOD
5505 A22=A2*A2
5508 BK=2.*PI*WLG/FNP
5516 BKA=BK*A2
5519 BKA2=BKA*BKA
5522 BKA3=BKA2*BKA
5525 AWE=BKA/376.707
5529 FNZ1=NZ1
5532 FNZ2=NZ2
5535 FNZ3=NZ3
5538 OZ=TOD/FNZ1

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5542      ADZT=A2*DZ*1.E-3
5546      WW=OM+FNZ1+FNZ2+FNZ3
5551      IF(ABSF(WW0-WW)-.05) 7,8,8
5557      8 NZ6=NZ2*(NZ3-1)
5563      NZ5=NZ1+NZ6
5566      NZ4=NZ2*NZ3
5569      WW0=WW
5571      IBK=0
5573      CALL ELPTC(NZ4,NZ5,NZ6,DZ,FNZ3,IBK)
5581      IF(IBK) 7,3,7
5584      3 DZ1=DZ/FNZ3
5588      FNN=2.*SQRTF(2.)*DZ1+2.
5594      NN=FNN
5597      FNN=NN
5600      IF(NN-303) 11,11,12
5604      12 STOP 12
5606      11 DZ2=DZ1/FNN
5610      CALL ELPTC(0,NN,0,DZ2,1.,IBK)
5618      CALL FOFZT(DZ2,1.,NN,FZC,0,0,IBK,F11,F12,FZ1,FZ2)
5631      NNM=NN-1
5634      S6=0
5637      S7=0
5640      S6=S6+FZ1(1)/2.
5645      S7=S7+FZ2(1)/2.
5650      DO 5 I=2,NNM
5654      S6=S6+FZ1(I)
5657      S7=S7+FZ2(I)
5660      5 CONTINUE
5661      S6=S6+FZ1(NN)/2.
5667      S7=S7+FZ2(NN)/2.
5672      IBK=1
5674      CALL ELPTC(NZ4,NZ5,NZ6,DZ,FNZ3,IBK)
5682      FNC=FNN*FZC
5685      AS3=0
5688      AS4=0
5691      AS1=S6/FNC
5695      AS2=S7/FNC/BKA
5701      GO TO 7
          DIMENSION G1(129),H1(129),D1(64),D2(64),CC1(64),CC2(64)
5702      59 FORMAT(/(8E15.8))
5704      60 FORMAT(/(5E15.8))
5707      7 IF(NG=NG0) 15,14,15
5711      15 FNG=NG
5714      NGP=NG+1
5717      NG2=NG*2
5720      NG2P=NG2+1
5723      DO 55 I=1,NGP
5727      FI=I-1
5731      Z=FI/FNG
5735      G1(I)=(1.-Z)
5738      Z2=Z*Z
5741      H1(I)=(4.-6.*Z2+3.*Z2*Z)/6.
5752      55 CONTINUE
5753      DO 56 I=NGP,NG2P
5758      FI=I-1
5762      Z=FI/FNG
5766      Z2=2.-Z

```

```

5769      ZZ2=ZZ*ZZ
5772      H1(I)=ZZ2*ZZ/6.
5777      56 CONTINUE
5778      14 NGO=NG
5780      CALL FOFZT(DZ,FNZ3,NZ5,FZC,NZ6,NZ4,1BK,F11,F12,FZ1,FZ2)
5793      10 DO 57 I=1,NP
5797      NS=(I-1)*NG
5802      CALL CRLTN(FZ1,FZ2,G1,NG,NS,NZ4,NZ3,D1(I),D2(I))
5813      D1(I)=D1(I)*ADZT
5816      D2(I)=D2(I)*ADZT
5819      IF(METH) 13,58,13
5822      58 CC1(I)=D1(I)
5824      CC2(I)=D2(I)
5826      GO TO 57
5827      13 CALL CRLTN(FZ1,FZ2,H1,NG2,NS,NZ4,NZ3,CC1(I),CC2(I))
5838      CC1(I)=CC1(I)*ADZT
5841      CC2(I)=CC2(I)*ADZT
5844      57 CONTINUE
5845      CALL DSPKS(N,D1,D2,CC1,CC2)
5852      PRINT 35, TOD,OM,WLG,NP
5861      35 FORMAT(CO2,/7HL/(2A)=F7.1,1H,,2X6HOMEGA=F5.1,1H,2X9HL/LAMBDA=F5.2
5876      PRINT 37
5881      37 FORMAT(/3X4HL/16,6X3HL/8,6X5H3L/16,6X3HL/4,6X5H5L/16,6X4H3L/8,5X5H
5895      PRINT 38
5900      38 FORMAT(/23X32HCONDUCTANCES (MILLIAMPERES/VOLT))
5908      CALL EVODD(N,IS,D1,D2,F11,F12,FZ1,FZ2)
5919      GO TO 98
5920      99 END FILE 5
5922      REWIND 5
5924      TYPE 6
5928      6 FORMAT(27HDISMOUNT TAPE 2017 AND SAVE)
5934      STOP
      END

```

DATA (Representative for $L/2A = 10$)

0.1000000E+02 0.5000000E-01031256010005
0.1000000E+02 0.1000000E+00031256010005
0.1000000E+02 0.1500000E+00031256010005
0.1000000E+02 0.2000000E+00031256010005
0.1000000E+02 0.2500000E+00031256010005
0.1000000E+02 0.3000000E+00031256010005
0.1000000E+02 0.3500000E+00031256010005
0.1000000E+02 0.4000000E+00031256010005
0.1000000E+02 0.4500000E+00031256010005
0.1000000E+02 0.5000000E+00031256010005
0.1000000E+02 0.5500000E+00031256010005
0.1000000E+02 0.6000000E+00031256010005
0.1000000E+02 0.6500000E+00031256010005
0.1000000E+02 0.7000000E+00031256010005
0.1000000E+02 0.7500000E+00031256010005
0.1000000E+02 0.8000000E+00031256010005
0.1000000E+02 0.8500000E+00031256010005
0.1000000E+02 0.9000000E+00031256010005
0.1000000E+02 0.9500000E+00031256010005
0.1000000E+02 0.1000000E+01031256010005
0.1000000E+02 0.1050000E+01031256010005
0.1000000E+02 0.1100000E+01031256010005
0.1000000E+02 0.1150000E+01031256010005
0.1000000E+02 0.1200000E+01031256010005
0.1000000E+02 0.1250000E+01031256010005
0.1000000E+02 0.1300000E+01031256010005
0.1000000E+02 0.1350000E+01031256010005
0.1000000E+02 0.1400000E+01031256010005
0.1000000E+02 0.1450000E+01031256010005
0.1000000E+02 0.1500000E+01031256010005
0.1000000E+02 0.1550000E+01031256010005
0.1000000E+02 0.1600000E+01031256010005
0.1000000E+02 0.1650000E+01031256010005
0.1000000E+02 0.1700000E+01031256010005
0.1000000E+02 0.1750000E+01031256010005
0.1000000E+02 0.1800000E+01031256010005
0.1000000E+02 0.1850000E+01031256010005
0.1000000E+02 0.1900000E+01031256010005
0.1000000E+02 0.1950000E+01031256010005
0.1000000E+02 0.2000000E+01031256010005
0.1000000E+02 0.2050000E+01031256010005
0.1000000E+02 0.2100000E+01031256010005

APPENDIX B

COMPUTER PROGRAM NO. 2

This program is for computing the various antenna and scatterer parameters described in Section II of this report.

```

** H MOUNT TAPE 2017 ON DRIVE 14 WITH RING OUT
*   COMPILE FORTRAN, EXECUTE FORTRAN, DUMP
2000     SUBROUTINE CMPY(A1,A2,B1,B2,C1,C2)
2006     C1=A1*B1-A2*B2
2013     C2=A2*B1+A1*B2
2020     RETURN
        END
2042     SUBROUTINE CDVD(A1,A2,B1,B2,C1,C2)
2048     D=B1*B1+B2*B2
2055     C1=(A1*B1+A2*B2)/D
2064     C2=(A2*B1-A1*B2)/D
2073     RETURN
        END
2096     SUBROUTINE CURR(C1,C2,J,I,I1,V1,V2,TI1,TI2)
        DIMENSION C1(31,16),C2(31,16),V1(16,20),V2(16,20),TI1(31),TI2(31)
        COMMON N,NP,BK,EN,PR1,NA,NAM,NB,NC,ND,NE,NNA,NNB,NNC,NNC
        COMMON N1,N2,N3,N4,N5
2102     IF(I1-1) 2,1,2
2106     1 MV=J*NA
2109     MC=NNA+1
2112     CALL CMPY(V1(MV),V2(MV),C1(MC),C2(MC),X1,X2)
2128     MC=NNC+1
2131     TI1(1)=C1(MC)+X1
2138     TI2(1)=C2(MC)+X2
2145     RETURN
2146     2 IF(I1-2) 4,3,4

```

```

2150      3 MV=J*NA
2153      DO 8 M=1,N
2157          MC=NNA+M
2160          CALL CMPY(V1(MV),V2(MV),C1(MC),C2(MC),X1,X2)
2176          MC=NNC+M
2179          T11(M)=C1(MC)+X1
2186          T12(M)=C2(MC)+X2
2193      8 CONTINUE
2194      RETURN
2195      4 MV=(J-1)*NA
2200      DO 5 M=1,NAM
2204          NM=NP-M
2207          T11(M)=0
2212          T12(M)=0
2217          T11(NM)=0
2222          T12(NM)=0
2227          MC1=(M-1)*N
2232          MC2=MC1+NP
2235      DO 6 L=1,NAM
2239          M1=MC1+L
2242          M2=MC2-L
2245          M3=MV+L
2248          CALL CMPY(V1(M3),V2(M3),C1(M1),C2(M1),X1,X2)
2264          CALL CMPY(V1(M3),-V2(M3),C1(M2),C2(M2),X3,X4)
2278          T11(M)=T11(M)+X1+X3
2284          T12(M)=T12(M)+X2+X4
2290          CALL CMPY(V1(M3),V2(M3),C1(M2),C2(M2),X1,X2)
2298          CALL CMPY(V1(M3),-V2(M3),C1(M1),C2(M1),X3,X4)
2308          T11(NM)=T11(NM)+X1+X3
2314          T12(NM)=T12(NM)+X2+X4
2320      6 CONTINUE
2321          M1=MC1+NA
2324          M3=MV+NA
2327          CALL CMPY(V1(M3),V2(M3),C1(M1),C2(M1),X1,X2)
2343          T11(M)=T11(M)+X1
2346          T12(M)=T12(M)+X2
2349          T11(NM)=T11(NM)+X1
2352          T12(NM)=T12(NM)+X2
2355      5 CONTINUE
2356          MC=NNA
2358          T11(NA)=0
2363          T12(NA)=0
2368      DO 93 L=1,NAM
2372          M1=MC+L
2375          M3=MV+L
2378          X5=2.*V1(M3)
2383          CALL CMPY(X5,0,C1(M1),C2(M1),X1,X2)
2395          T11(NA)=T11(NA)+X1
2400          T12(NA)=T12(NA)+X2
2405      93 CONTINUE
2406          M3=M3+1
2409          CALL CMPY(V1(M3),V2(M3),C1(N4),C2(N4),X1,X2)
2425          T11(NA)=T11(NA)+X1
2428          T12(NA)=T12(NA)+X2
2431      RETURN
2483      END
SUBROUTINE VOLT(T,K,V1,V2)

```

```

      DIMENSION V1(16,20),V2(16,20)
      COMMON N,NP,BK,EN,PR1,NA,NAM,NB,NC,ND,NE,NNA,NNB,NNC,NND
2489      SS=SINF(T)
2492      S=COSF(T)
2495      B=BK*S
2498      IF(B=1.E-5) 1,1,2
2503      1 HA=1.
2505      GO TO 3
2506      2 B2=B*B
2509      B4=B2*B2
2512      B6=B4*B2
2515      BA=(-1.-B2/12.+B4/360.-B6/20160.)
2530      3 MV=(K-1)*NA
2535      BAS=BA*SS
2538      DO 8 J=1,NA
2542      M1=MV+J
2545      FJ=NA-J
2549      AG=FJ*B
2552      SN=-SINF(AG)
2556      CS=COSF(AG)
2559      V1(M1)=CS*BAS
2564      V2(M1)=SN*BAS
2569      8 CONTINUE
2570      RETURN
      END
2606      SUBROUTINE AVOLT(C1,C2,V1,V2,J,YL1,YL2,A1,A2)
      DIMENSION V1(16,20),V2(16,20),C1(31,16),C2(31,16)
      COMMON N,NP,BK,EN,PR1,NA,NAM,NB,NC,ND,NE,NNA,NNB,NNC,NND
      COMMON N1,N2,N3,N4,N5
2612      2 X2=YL2+C2(N4)
2617      CALL CDVD(C1(N2),C2(N2),C1(N4),X2,A1,A2)
2631      RETURN
      END
2659      SUBROUTINE POFMT(T11,T12,KT,SN,GA)
      DIMENSION T11(31),T12(31),GA(31,35)
      COMMON N,NP,BK,EN,PR1,NA,NAM,NB,NC,ND,NE,NNA,NNB,NNC,NND
2665      IF(KT) 7,8,7
2667      7 MA=(KT-1)*N
2672      MB=(KT+5)*N
2677      MC=(KT+11)*N
2682      8 DO 1 J=1,N
2686      T11(J)=T11(J)*EN
2691      T12(J)=T12(J)*EN
2696      D1=T11(J)*T11(J)+T12(J)*T12(J)
2703      Z1=SQRT(D1)
2706      Z2=ATANF(T12(J)/T11(J))
2711      Z2=Z2*PR1
2714      PRINT 5, J,T11(J),T12(J),Z1,Z2
2727      5 FORMAT(3X,I2,3H/32,2X,3F10.4,19.1)
2732      IF(KT)1,1,4
2736      4 M1=MA+J
2739      GA(M1)=Z1*SN
2744      M2=MB+J
2747      GA(M2)=T11(J)*SN
2752      M3=MC+J
2755      GA(M3)=T12(J)*SN
2760      1 CONTINUE

```

```

2761      PRINT 2
2765      2 FORMAT(C02)
2766      RETURN
      END
2801      SUBROUTINE GAIN(TI1,TI2,K,V1,V2,CONG,P,GA)
      DIMENSION TI1(31),TI2(31),V1(16,20),V2(16,20),GA(31,35)
      COMMON N,NP,BK,EN,PR1,NA,NAM,NB,NC,ND,NE,NNA,NNB,NNC,NND
      C=CONG/P
      DO 1 L=1,18
      2811      X1=0
      2814      X2=0
      2817      X5=0
      2820      X6=0
      2823      MV=(L-1)*NA
      2826      DU 2 J=1,NAM
      2831      M1=MV+J
      2835      CALL CMPY(TI1(J),TI2(J),V1(M1),V2(M1),X3,X4)
      2838      CALL CMPY(TI1(J),TI2(J),V1(M1),-V2(M1),X7,X8)
      2854      X1=X1+X3
      2864      X2=X2+X4
      2867      X5=X5+X7
      2870      X6=X6+X8
      2873      NJ=NP-J
      2876      CALL CMPY(TI1(NJ),TI2(NJ),V1(M1),-V2(M1),X3,X4)
      2879      CALL CMPY(TI1(NJ),TI2(NJ),V1(M1),V2(M1),X7,X8)
      2893      X1=X1+X3
      2901      X2=X2+X4
      2904      X5=X5+X7
      2907      X6=X6+X8
      2910      2 CONTINUE
      2913      M1=M1+1
      2914      J=J+1
      2917      CALL CMPY(TI1(J),TI2(J),V1(M1),0,X3,X4)
      2920      X1=X1+X3
      2934      X2=X2+X4
      2937      X5=X5+X7
      2940      X6=X6+X8
      2943      D1=X1*X1+X2*X2
      2946      D2=X5*X5+X6*X6
      2953      M1=(L-1)*10+K
      2960      GA(M1)=D1*C
      2966      M2=(35-L)*10+K
      2971      GA(M2)=D2*C
      2977      1 CONTINUE
      2982      RETURN
      2983      END
      DIMENSION C1(31,16),C2(31,16),G(10),B(10),TI1(31),TI2(31)
      1,V1(16,20),V2(16,20),AA(40),S(21),YL1(9),YL2(9),
      2B1(5),SL(9),GA(31,35),ZM1(31),ZM2(31),GD(4),TL(45),FM(16,31)
      COMMON N,NP,BK,EN,PR1,NA,NAM,NB,NC,ND,NE,NNA,NNB,NNC,NND
      COMMON N1,N2,N3,N4,N5
      3032      READ 25,PI,TOA,AP,N,LA,LB
      3043      25 FORMAT(3E15.8,3I3)
      3045      IT1=XCLKF(1)
      3049      REWIND 3
      3051      REWIND 5
      3053      PRINT 57, TOA

```

```

3059      57 FORMAT(7HL/(2A)=F8.1)
3062      READ 1, (B1(I),I=1,5)
3071      B1(1)=-B1(1)*.25
3074      B1(2)=-B1(2)*.35
3077      B1(4)=-B1(4)/.55
3081      B1(5)=-B1(5)/.65
3086      1 FORMAT(E15.8)
3087      READ 32, (FM(J),J=1,496)
3098      32 FORMAT(16A5)
3099      NP=N+1
3103      FNP=NP
3106      NA=NP/2
3110      NAM=NA-1
3113      NB=3*NP/8
3119      NC=NP/4
3123      ND=NP/8
3127      NE=NA+NC
3130      NNA=N*(NA-1)
3136      NN8=N*(NB-1)
3142      NNC=N*(NC-1)
3148      NND=N*(ND-1)
3154      N1=NNC+NC
3157      N2=NNC+NA
3160      N3=NNC+NE
3163      N4=NNA+NA
3166      N5=NNA+N
3169      P12=PI/2.
3173      PX=2.*PI/FNP
3178      PR=PI/180.
3182      CON= .376707*.376707/16./PI/PI/PI
3193      PR1=1./PR
3197      PG=1./4./PI*.376707
3204      IT3=XCLKF(1)
3207      DO 5 L=LA, LB
3212      28 READ INPUT TAPE 5,54, (ZM1(I),I=1,N)
3223      READ INPUT TAPE 5,54, (ZM2(I),I=1,N)
3235      54 FORMAT(8E15.8)
3236      DO 27 I=1,NA
3241      M1=(I-1)*N+1
3247      M2=M1+NAM
3250      READ INPUT TAPE 5, 54, (C1(J),J=M1,M2)
3262      27 CONTINUE
3263      DO 92 I=1,NAM
3267      M1=(I-1)*N+1
3273      M2=M1+NA-2
3277      READ INPUT TAPE 5,54, (GA(J),J=M1,M2)
3289      92 CONTINUE
3290      DO 93 I=1,NA
3294      M1=(I-1)*N+1
3300      M2=M1+NAM
3303      READ INPUT TAPE 5,54, (C2(J),J=M1,M2)
3315      93 CONTINUE
3316      DO 94 I=1,NAM
3320      M1=(I-1)*N+NA+1
3327      M2=M1+NA-2
3331      READ INPUT TAPE 5,54, (GA(J),J=M1,M2)
3343      94 CONTINUE

```

```

3344      M3=NNA
3346      M4=NNA+NP
3349      DO 95 I=1,NAM
3353      MC=I*N+1
3357      MG=(NA-I-1)*N
3363      DO 100 J=1,NAM
3367      MC=MC-1
3370      MG=MG+1
3373      M2=MG+NA
3376      C1(MC)=GA(MG)
3380      C2(MC)=GA(M2)
3383      100 CONTINUE
3384      M3=M3+1
3387      M4=M4-1
3390      C1(M4)=C1(M3)
3394      C2(M4)=C2(M3)
3396      95 CONTINUE
3397      FL=L
3400      TL(L)=.05*FL
3403      89 EN=TL(L)/FNP
3407      BK=PX*TL(L)
3410      BK2=BK*BK
3413      CONG=BK2*PG
3416      BN=BK2*BK2*CUN
3420      COND=BK2/PI/PI/16.
3428      CONP=BK/PI/4.
3434      LI=AP*TL(L)
3438      FL1=LI
3441      IF(FL1=AP*TL(L))30,7,30

```

CALCULATION OF INPUT ADMITTANCES G, B OF I

```

3445      30 DO 3 K=1,4
3448      MA=(5-K)*NA/4
3457      M1=(MA-1)*N+MA
3463      G(K)=C1(M1)
3466      B(K)=C2(M1)
3468      3 CONTINUE
3469      CALL AVOLT(C1,C2,V1,V2,1,0,0,X1S,X2S)
3480      V1(NA)=-X1S
3483      V2(NA)=-X2S
3485      CALL CURR(C1,C2,1,NC,1,V1,V2,T11,T12)
3496      G(5)=T11(NC)
3499      B(5)=T12(NC)
3501      CALL CURR(C1,C2,1,NE,1,V1,V2,T11,T12)
3512      G(10)=T11(NE)
3515      B(10)=T12(NE)
3517      L2=TL(L)/2.
3522      FL2=L2
3525      IF(FL2=TL(L)/2.) 8,9,8
3531      9 DO 31 K=6,8
3534      G(K)=G(5)
3536      B(K)=B(5)
3538      31 CONTINUE
3539      GO TO 44
3540      8 ARG=PI2*TL(L)
3543      CT=COSF(ARG)/SINF(ARG)
3551      YL2(6)=-1./6*CT

```

```

3556      YL2(7)=-1./3*CT
3561      YL2(8)=-10.*CT
3564      DU 10 K=6,8
3567      CALL AVOL1(C1,C2,V1,V2,1,0,YL2(K),X1,X2)
3578      V1(NA)=-X1
3581      V2(NA)=-X2
3583      CALL CURR(C1,C2,1,NC,1,V1,V2,TI1,II2)
3594      G(K)=TI1(NC)
3597      B(K)=TI2(NC)
3599      10 CONTINUE
3600      G(9)=C1(N1)+C1(N3)
3605      B(9)=C2(N1)+C2(N3)
3608      GO TO 44

```

V CALCULATION OF ECHO AREAS (MONOSTATIC AND BISTATIC)

```

IV ALSO, CURRENT ON SCATTERER IS PRINTED OUT FOR APPROPRIATE L/
3609      7 PRINT 33, 1L(L)
3614      M1=21*16+1
3618      M2=M1+15
3621      PRINT 20, (FM(I),I=M1,M2)
3632      44 DU 11 K=1,6
3635      TA=15*(7-K)
3642      T=TA*PR
3645      CALL VOLT(T,K,V1,V2)
3651      11 CONTINUE
3652      K=0
3654      DU 12 KT=1,6
3657      CALL CURR(C1,C2,KT,KT,3,V1,V2,TI1,II2)
3668      IF(KT/2*2-KT) 6,4,6
3676      4 KA=KT
3678      KB=KT
3680      GO TO 18
3681      6 KA=1
3683      KB=6
3685      18 DU 53 KR=KA,KB
3690      K=K+1
3693      R=0
3696      A=0
3699      MV=(KR-1)*NA
3704      DO 14 J=1,NAM
3708      M1=MV+J
3711      CALL CMPY(V1(M1),V2(M1),TI1(J),TI2(J),X5,X6)
3720      R=R+X5
3723      A=A+X6
3726      NJ=NP-J
3729      CALL CMPY(V1(M1),-V2(M1),TI1(NJ),TI2(NJ),X5,X6)
3740      R=R+X5
3743      A=A+X6
3746      14 CONTINUE
3747      M1=M1+1
3750      J=J+1
3753      CALL CMPY(V1(M1),V2(M1),TI1(J),TI2(J),X5,X6)
3763      R=R+X5
3766      A=A+X6
3769      IF(K-1) 81,82,81
3773      82 GD(1)=R*COND

```

```

3776      GD(2)=A*COND
3779      GD(3)=CUNP*TI1(NA)
3783      GD(4)=CUNP*TI2(NA)
3786      81 S(K)=BN*(R*R+A*A)
3795      S(K)=BN*(R*R+A*A)
3803      53 CONTINUE
3804      IF(FL1-AP*TL(L))12,39,12
3809      39 IC=105-15*KT
3813      M1=22*16+1
3817      M2=M1+15
3820      PRINT 20, (FM(I),I=M1,M2)
3831      PRINT 40, IC
3837      40 FORMAT(3X,19HANGLE OF INCIDENCE=13)
3842      M1=20*16+1
3847      M2=M1+15
3850      PRINT 20, (FM(I),I=M1,M2)
3861      SN=1./SINH(FLOAT(IC)*PR)
3868      CALL PDFMT(TI1,TI2,KT,SN,GA)
3875      12 CONTINUE
3877      70 FORMAT(6X46HMAGNITUDE OF CURRENT (MILLIAMPS) WHEN PARALLEL/6X47HCO
      1MPONENT OF INCIDENT FIELD=ONE VOLT/WAVELENGTH)
3899      71 FORMAT(6X46HREAL PART OF CURRENT (MILLIAMPS) WHEN PARALLEL/6X47HCO
      1MPONENT OF INCIDENT FIELD=ONE VOLT/WAVELENGTH)
3922      72 FORMAT(6X51HIMAGINARY PART OF CURRENT (MILLIAMPS) WHEN PARALLEL/6X
      147HCOMPONENT OF INCIDENT FIELD=ONE VOLT/WAVELENGTH)
3946      73 FORMAT(4X3HX/L7X6HANG=904X6HANG=754X6HANG=604X6HANG=454X6HANG=304X
      16HANG=15)
3960      IF(FL1-AP*TL(L))87,88,87
3966      88 DO 75 K=1,3
3969      GO TO (76,77,78), K
3975      76 PRINT 70
3978      GO TO 79
3979      77 PRINT 71
3982      GO TO 79
3983      78 PRINT 72
3986      79 PRINT 73
3989      K1=6*(K-1)*N
3997      DO 80 J=1,N
4001      K2=K1+J
4004      K3=K2+5*N
4008      PRINT 74, J, (GA(KK),KK=K2,K3,N)
4025      74 FORMAT(3X,12,3H/32,2X,6F10.4)
4029      80 CONTINUE
4031      PRINT 49
4034      75 CONTINUE

```

VI ECHO AREAS OF CENTER LOADED SCATTERER, TRANSMITTER ANGLE=90

```

4035      87 YL1(1)=0
4038      YL2(1)=-C2(N4)
4041      DO 13 J=2,3
4044      YL1(J)=0
4047      YL2(J)=B1(J-1)/TL(L)
4051      13 CONTINUE
4052      YL1(4)=0
4055      YL2(4)=0
4058      DO 96 J=5,6
4061      YL1(J)=0

```

```

4064      YL2(J)=B1(J-1)*TL(L)
4067  96 CONTINUE
4068      YL1(7)=C1(N4)
4071      YL2(7)=-C2(N4)
4073      YL1(8)=1./0.075
4077      YL2(8)=0
4080      YL1(9)=1./0.3
4084      YL2(9)=0
4087      CALL CURR(C1,C2,1,1,3,V1,V2,TI1,TI2)
4098      X7=TI1(NA)
4101      X8=TI2(NA)
4103      MV=NA
4105      DO 97 J=1,N
4109      M1=MV+J
4112      V1(M1)=TI1(J)
4115      V2(M1)=TI2(J)
4117  97 CONTINUE
4118      DO 15 J=1,9
4121      X3=C1(N4)+YL1(J)
4125      X4=C2(N4)+YL2(J)
4128      CALL CDVD(X7,X8,X3,X4,X5,X6)
4136      DO 98 K=1,NAM
4140      NK=NP-K
4143      M1=NNA+K
4146      M2=MV+K
4149      M3=MV+NK
4152      S1=X5*C1(M1)-X6*C2(M1)
4160      S2=X6*C1(M1)+X5*C2(M1)
4167      TI1(K)=V1(M2)-S1
4171      TI2(K)=V2(M2)-S2
4174      TI1(NK)=V1(M3)-S1
4179      TI2(NK)=V2(M3)-S2
4182  98 CONTINUE
4183      S1=X5*C1(N4)-X6*C2(N4)
4191      S2=X6*C1(N4)+X5*C2(N4)
4198      M2=M2+1
4201      TI1(NA)=V1(M2)-S1
4206      TI2(NA)=V2(M2)-S2
4209      R=0
4212      A=0
4215      DO 16 K=1,NAM
4219      CALL CMPY(TI1(K),TI2(K),V1(K),V2(K),X1,X2)
4227      R=R+X1
4230      A=A+X2
4233      NK=NP-K
4236      CALL CMPY(TI1(NK),TI2(NK),V1(K),-V2(K),X1,X2)
4247      R=R+X1
4250      A=A+X2
4253  16 CONTINUE
4254      CALL CMPY(TI1(NA),TI2(NA),V1(NA),V2(NA),X1,X2)
4263      R=R+X1
4266      A=A+X2
4269      SL(J)=BN*(R+A*A)
4277  15 CONTINUE

```

II ANTENNA CURRENT FOR VARIOUS LOADS AND DRIVES (CALC OF GAIN AL
 4278 IF(FL1-AP*TL(L))86,37,86

```

4283      37 PRINT 33, TL(L)
4289      33 FORMAT(11HL/(LAMBDA)=F5.2)
4293      M1=16*19+1
4297      M2=M1+8
4300      M3=M2+1
4303      M4=M3+6
4306      PRINT 20, (FM(I),I=M1,M2)
4317      PRINT 66, (FM(I),I=M3,M4)
4329      66 FORMAT(5X,7A5)
4330      DO 34 I=1,18
4334      AA(I)=5*I
4338      NI=36-I
4341      AA(NI)=5*NI
4346      AR=AA(I)*PR
4349      CALL VOLT(AR,I,V1,V2)
4355      34 CONTINUE
4356      EN=1.
4358      KT=0
4360      DO 35 K=1,4
4363      KK=(5-K)*NA/4
4372      M1=(KK-1)*N
4377      DO 36 J=1,N
4381      M2=M1+J
4384      TI1(J)=C1(M2)
4387      TI2(J)=C2(M2)
4389      36 CONTINUE
4390      P=TI1(KK)
4393      CALL GAIN(TI1,TI2,K,V1,V2,CUNG,P,GA)
4403      G(K)=TI1(KK)
4405      B(K)=TI2(KK)
4407      M1=(K+2)*16+1
4413      M2=M1+15
4416      M3=20*16+1
4420      M4=M3+15
4423      PRINT 20, (FM(I),I=M1,M2)
4434      PRINT 20, (FM(I),I=M3,M4)
4445      CALL POFM1(TI1,TI2,KT,SN,GA)
4452      35 CONTINUE
4453      CALL AVOLT(C1,C2,V1,V2,1,0,0,X1,X2)
4464      MV=NA*19
4467      V1(MV)=-X1
4470      V2(MV)=-X2
4472      CALL CURR(C1,C2,19,NA,2,V1,V2,TI1,TI2)
4483      G(5)=TI1(NC)
4486      B(5)=TI2(NC)
4488      G(10)=TI1(NE)
4491      B(10)=TI2(NE)
4493      P=TI1(NC)
4495      CALL GAIN(TI1,TI2,5,V1,V2,CLNG,P,GA)
4505      M1=7*16+1
4509      M2=M1+15
4512      M3=20*16+1
4516      M4=M3+15
4519      PRINT 20, (FM(I),I=M1,M2)
4530      PRINT 20, (FM(I),I=M3,M4)
4541      CALL POFM1(TI1,TI2,KT,SN,GA)
4548      L2=TL(L)/2.

```

```

4553      FL2=L2
4556      IF(FL2-TL(L)/2.) 42,41,42
4562      41 DO 43 K=6,8
4565          G(K)=G(5)
4567          B(K)=B(5)
4569          M1=(K+2)*16+1
4575          M2=M1+5
4578          M3=M2+1
4581          M4=M3+9
4584          PRINT 20, (FM(I),I=M1,M2)
4595          PRINT 20, (FM(I),I=M3,M4)
4606          M1=20*16+1
4610          M2=M1+15
4613          PRINT 20, (FM(I),I=M1,M2)
4624          CALL POFMT(TI1,TI2,KT,SN,GA)
4631          DO 45 J=1,35
4634          MA=(J-1)*10
4639          M1=MA+K
4642          M2=MA+5
4645          GA(M1)=GA(M2)
4649      45 CONTINUE
4650      43 CONTINUE
4651          GO TO 48
4652      42 ARG=PI2*TL(L)
4655          CT=CUSF(ARG)/SINF(ARG)
4663          YL2(6)=-1./6*CT
4668          YL2(7)=-1./3*CT
4673          YL2(8)=-10.*CT
4676          DO 46 K=6,8
4679          CALL AVOLT(C1,C2,V1,V2,1,0,YL2(K),X1,X2)
4690          V1(MV)=-X1
4693          V2(MV)=-X2
4695          CALL CURR(C1,C2,19,NA,2,V1,V2,TI1,TI2)
4706          G(K)=TI1(NC)
4709          B(K)=TI2(NC)
4711          P=TI1(NC)
4713          CALL GAIN(TI1,TI2,K,V1,V2,CONG,P,GA)
4723          M1=(K+2)*16+1
4729          M2=M1+5
4732          M3=M2+1
4735          M4=M3+9
4738          M5=20*16+1
4742          M6=M5+15
4745          PRINT 20, (FM(I),I=M1,M2)
4756          PRINT 20, (FM(I),I=M3,M4)
4767          PRINT 20, (FM(I),I=M5,M6)
4778          CALL POFMT(TI1,TI2,KT,SN,GA)
4785      46 CONTINUE
4786      48 DO 47 J=1,NA
4790          NJ=NP-J
4793          M1=NNC+J
4796          M2=NNC+NJ
4799          TI1(J)=C1(M1)+C1(M2)
4804          TI2(J)=C2(M1)+C2(M2)
4807          TI1(NJ)=TI1(J)
4810          TI2(NJ)=TI2(J)
4812      47 CONTINUE

```

```

4813      G(9)=TI1(NC)
4816      B(9)=TI2(NC)
4818      P=2.*TI1(NC)
4821      CALL GAIN(TI1,TI2,9,V1,V2,CUNG,P,GA)
4831      M1=11*16+1
4835      M2=M1+15
4838      M3=20*16+1
4842      M4=M3+15
4845      PRINT 20, (FM(I),I=M1,M2)
4856      PRINT 20, (FM(I),I=M3,M4)
4867      CALL PDFMT(TI1,TI2,KT,SN,GA)
4874      M1=23*16+1
4878      M2=M1+15
4881      M3=24*16+1
4885      M4=M3+23
4888      PRINT 20, (FM(I),I=M1,M2)
4899      PRINT 20, (FM(I),I=M3,M4)
4910      DO 51 J=1,35
4913      M1=(J-1)*10+1
4919      M2=M1+8
4922      PRINT 52, AA(J), (GA(K),K=M1,M2)
4936      52 FORMAT(3X,F4.0,9F9.4)
4939      51 CONTINUE
4940      PRINT 49
4944      49 FORMAT(CO2)
4945      DO 58 K=1,6
4948      J=21-3*K
4952      CALL CURR(C1,C2,J,0,3,V1,V2,TI1,TI2)
4963      P=0
4966      MA=(J-1)*NA
4971      DO 59 I=1,NAM
4975      M1=MA+I
4978      P=P+V1(M1)*TI1(I)+V2(M1)*TI2(I)
4987      NI=NP-I
4990      P=P+V1(M1)*TI1(NI)-V2(M1)*TI2(NI)
4999      59 CONTINUE
5000      I=I+1
5003      M1=M1+1
5006      P=P+V1(M1)*TI1(I)+V2(M1)*TI2(I)
5016      CALL GAIN(TI1,TI2,K,V1,V2,CUNG,P,GA)
5026      58 CONTINUE
5027      M1=28*16+1
5031      M2=M1+15
5034      M3=M2+1
5037      M4=M3+7
5040      M5=M4+9
5043      M6=M5+15
5046      PRINT 20, (FM(I),I=M1,M2)
5057      PRINT 20, (FM(I),I=M3,M4)
5068      PRINT 20, (FM(I),I=M5,M6)
5079      DO 63 J=1,35
5082      M1=(J-1)*10+1
5088      M2=M1+5
5091      PRINT 52, AA(J), (GA(K),K=M1,M2)
5104      63 CONTINUE
5105      PRINT 49
5108      86 WRITE OUTPUT TAPE 3,68, (G(J),J=1,10), (B(J),J=1,10), (S(J),J=1,21), (

```

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        1SL(J),J=1,9),(GD(J),J=1,4)
5143      68 FORMAT(8E15.8)
5144      5 CONTINUE
5146      END FILE 3
5148      REWIND 3
5150      IT6=XCLKF(1)
5153      DO 69 L=LA,LB
5158      J1=(L-LA)*54+1
5164      J2=J1+53
5167      READ INPUT TAPE3,68,(C1(J),J=J1,J2)
5179      69 CONTINUE

PRINT OUT INPUT QUANTITIES OF I
5180      PRINT 20, (FM(I),I=1,16)
5190      20 FORMAT(24A5)
5191      DO 19 K=1,10
5195      M1=(K+2)*16+1
5201      M2=M1+15
5204      PRINT 20, (FM(I),I=M1,M2)
5215      IF(K-10) 64,65,64
5219      65 M1=13*16+1
5223      M2=M1+15
5226      PRINT 20, (FM(I),I=M1,M2)
5237      64 M1=17
5239      M2=M1+23
5242      PRINT 20, (FM(I),I=M1,M2)
5253      DO 21 L=LA,LB
5258      J1=(L-LA)*54+K
5264      J2=J1+10
5267      D=C1(J1)*C1(J1)+C1(J2)*C1(J2)
5276      Z1=SQRT(D)
5279      Z2=ATANF(C1(J2)/C1(J1))
5284      Z2=Z2*PR1
5287      Z3=C1(J1)/D
5291      Z4=-C1(J2)/D
5295      Z5=1./Z1
5299      Z6=-Z2
5301      PRINT 22, TL(L),C1(J1),C1(J2),Z1,Z2,Z3,Z4,Z5,Z6
5318      22 FORMAT(F8.2,2X,3F10.4,F10.1,3F10.4,F10.1)
5325      21 CONTINUE
5326      PRINT 49
5329      19 CONTINUE

PRINT OUT OF ECHO AREAS V
5330      M1=14*16+1
5334      M2=M1+15
5337      M3=M2+1
5340      M4=M3+15
5343      PRINT 20, (FM(I),I=M1,M2)
5354      PRINT 20, (FM(I),I=M3,M4)
5365      DO 23 L=LA,LB
5370      J1=(L-LA)*54+21
5376      J2=J1+6
5379      PRINT 50, TL(L),(C1(I),I=J1,J2)
5393      50 FORMAT(F8.2,2X,7F10.5)
5396      23 CONTINUE
5398      PRINT 49

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5401      M1=16*16+1
5405      M2=M1+15
5408      PRINT 20, (FM(I),I=M1,M2)
5419      DO 24 L=LA,LB
5424      J1=(L-LA)*54+28
5430      J2=J1+6
5433      PRINT 50, TL(L),(C1(I),I=J1,J2)
5446      24 CONTINUE
5447      PRINT 49
5450      M3=M2+1
5453      M4=M3+15
5456      PRINT 20, (FM(I),I=M3,M4)
5467      DO 56 L=LA,LB
5472      J1=(L-LA)*54+35
5478      J2=J1+6
5481      PRINT 50, TL(L),(C1(I),I=J1,J2)
5494      56 CONTINUE
5495      PRINT 49

      PRINT OUT FOR CENTER LOADED SCATTERER VI
5498      M5=M4+1
5501      M6=M5+15
5504      PRINT 20, (FM(I),I=M5,M6)
5515      M1=26*16+1
5519      M2=M1+23
5522      PRINT 20, (FM(I),I=M1,M2)
5533      DO 26 L=LA,LB
5538      J1=(L-LA)*54+42
5544      J2=J1+8
5547      PRINT 62, TL(L),(C1(I),I=J1,J2)
5561      62 FORMAT(F8.2,2X,9F9.5)
5564      26 CONTINUE
5565      PRINT 49
5569      83 FORMAT(50HVIII PRIMED ADMITTANCE PARAMETERS (MILLIMHOS) FOR/6X4IH
1CCENTER LOADED SCATTERER, NORMAL INCIDENCE)
5590      84 FORMAT(50H L/(LAMBDA) RE DY11 IM DY11 RE Y12 IM Y12)
5602      PRINT 83
5605      PRINT 84
5608      DO 85 L=LA,LB
5613      J1=(L-LA)*54+51
5619      J2=J1+3
5622      PRINT 50, TL(L),(C1(I),I=J1,J2)
5635      85 CONTINUE
5636      PRINT 49
5639      REWIND 5
5641      TYPE 29
5645      29 FORMAT(27HDISMOUNT TAPE 2017 AND SAVE)
5651      STOP
      END

```

DATA (Representative for $L/2A = 10$)

0.31415926E+01 0.10000000E+02 0.40000000E+01 31001042

0.78630419E 01
0.14180076E 02
0.00000000E+00
0.28476432E 01
0.51764932E 01

I INPUT ADMITTANCES (MILLI-HOS) AND IMPEDANCES (KILO-OHMS)

L/(LAMBDA)	G	R	MAG Y	ANG Y	R	X	MAG Z
------------	---	---	-------	-------	---	---	-------

ANG 7

A) SOURCE AT CENTER							
B) SOURCE L/8 OFF CENTER							
C) SOURCE L/4 OFF CENTER							
D) SOURCE 3L/8 OFF CENTER							
E) SOURCE L/4 OFF CENTER, Y=0 AT CENTER							
F) SOURCE L/4 OFF CENTER, Y=(-J/600)COT(KL/4) MHOS AT CENTER							
G) SOURCE L/4 OFF CENTER, Y=(-J/300)COT(KL/4) MHOS AT CENTER							
H) SOURCE L/4 OFF CENTER, Y=(-J/100)COT(KL/4) MHOS AT CENTER							
I) SOURCE L/4 OFF CENTER, GROUND PLANE AT CENTER							
J) MUTUAL ADMITTANCES OR IMPEDANCES, SOURCE L/4 OFF CENTER, Y=0 AT CENTER, OUTPUT POINT L/4 FROM CENTER							

V MONOSTATIC AND BISTATIC ECHO AREAS/(LAMBDA SQUARED)

L/(LAMBDA)	S(A)	S(B)	S(C)	S(D)	S(E)	S(F)	S(G)
------------	------	------	------	------	------	------	------

L/(LAMBDA)	S(H)	S(I)	S(J)	S(K)	S(L)	S(M)	S(N)
------------	------	------	------	------	------	------	------

L/(LAMBDA)	S(O)	S(P)	S(Q)	S(R)	S(S)	S(T)	S(U)
------------	------	------	------	------	------	------	------

VI ECHO AREAS/(LAMBDA SQUARED) FOR LOADED SCATTERER (BROADSIDE INCIDENCE)

II ANTENNA CURRENT (MILLIAMPS) FOR VARIOUS DRIVES AND LOADS, SOURCE=ONE VOLT

PF I	IM I	MAG I	ANG I
------	------	-------	-------

IV CURRENT (MILLIAMPS) FOR VARIOUS ANGLES OF INCIDENCE

INCIDENT FIELD=ONE VOLT PER WAVELENGTH

III POWER GAIN PATTERN G(THETA) FOR THE VARIOUS LOADS AND DRIVES OF I

THETA	GAIN A	GAIN B	GAIN C	GAIN D	GAIN E	GAIN F	GAIN G	GAIN H
-------	--------	--------	--------	--------	--------	--------	--------	--------

GAT: I

L/(LAMBDA)	S(A)	S(B)	S(C)	S(D)	S(E)	S(F)	S(G)	S(H)
------------	------	------	------	------	------	------	------	------

VII SCATTERED POWER PATTERN G(THETA) FOR UNLOADED WIRE, VARIOUS ANGLES OF INCIDENCE

THETA	ANG=90	ANG=75	ANG=60	ANG=45	ANG=30	ANG=15
-------	--------	--------	--------	--------	--------	--------