

2370	Theta Ang	0		20		40		60		80		100		120		140		160		180	
	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)
0	-2.73	0	-3.4	0	-3.93	0	-6.5	0	-15.42	0	-14.38	0	-6.63	0	-1.78	0	-4.36	0	0.19		
5	-2.95	0	-3.4	0.05	-3.91	0	-6.5	0.05	-15.41	0	-14.38	0	-6.63	0.05	-1.8	0	-4.36	5	-0.02		
10	-3.25	1.65	-3.39	3.4	-4.06	2.5	-6.49	2.9	-15.23	0.8	-14.53	1.6	-6.98	2.55	-2.16	0.15	-4.41	10	-0.31		
15	-3.63	7.4	-3.58	10.85	-4.26	10.3	-6.43	9.95	-15.15	6.15	-16.81	7.6	-8.77	9.4	-3.19	4.3	-5.2	15	-0.67		
20	-4.09	15.05	-3.89	18.35	-4.62	17.8	-6.61	18.1	-15.37	14.55	-19.76	15.25	-11.32	17.05	-4.57	11.65	-6.42	20	-1.12		
25	-4.66	22.5	-4.32	26.2	-5.09	25.35	-6.97	25.3	-15.7	22.65	-21.68	22.7	-14.72	24	-6.11	19.75	-7.89	25	-1.67		
30	-5.33	30.05	-4.91	33.95	-5.77	32.45	-7.61	32.95	-15.95	30.7	-21.37	30.2	-19.84	32	-7.92	27.2	-9.55	30	-2.32		
35	-6.13	38.05	-5.72	41.5	-6.71	40.25	-8.43	41	-15.95	38.4	-19.94	38.2	-27.51	39.2	-9.87	34.7	-11.37	35	-3.1		
40	-7.08	45.6	-6.85	49	-7.76	48.35	-9.42	48.25	-15.7	46.5	-18.52	45.8	-23.93	46.9	-11.42	42.2	-13.32	40	-4.02		
45	-8.23	53.1	-8.32	56.45	-9.13	55.85	-10.43	55.85	-10.43	55.85	-15.36	54.85	-17.57	53	-19.08	54.85	-12.24	49.7	-15.26	45	-5.13
50	-9.63	61.35	-10.33	63.9	-10.59	63.3	-11.28	63.8	-14.96	62.35	-17.05	60.45	-16.3	62.3	-12.22	57.15	-16.96	50	-6.49		
55	-11.38	69.8	-12.71	71.4	-12.26	70.8	-11.95	71.3	-14.67	70.4	-16.82	68.65	-14.51	69.55	-11.81	65.1	-18.1	55	-8.17		
60	-13.67	77.95	-14.37	79.4	-13.87	78.1	-12.46	78.9	-14.52	78.05	-16.85	76.25	-13.39	77.6	-11.36	72.2	-18.35	60	-10.34		
65	-16.87	85.5	-14.04	86.6	-14.99	86.55	-12.88	86.1	-14.61	85.6	-17.02	83.75	-12.68	85.1	-11.07	79.5	-18.15	65	-13.34		
70	-22.11	92.7	-12.16	94.5	-15.03	94.4	-13.41	94.05	-14.97	93.15	-17.3	91.25	-12.27	92.55	-10.95	87.75	-17.69	70	-18.06		
75	-37.81	100.25	-10.15	102.1	-13.88	103.55	-14.04	101.75	-15.65	100.85	-17.77	98.7	-12.1	100.2	-10.91	95.35	-17.37	75	-29.45		
80	-25.55	108.25	-8.35	109.25	-12.22	111.1	-14.59	108.95	-16.64	108.35	-18.39	106.7	-12.11	107.85	-10.92	102.9	-17.25	80	-24.75		
85	-18.56	115.6	-6.88	117.4	-10.54	118.75	-14.8	116.6	-17.88	116.05	-19.3	114.2	-12.2	114.85	-10.8	110.95	-17.31	85	-16.54		
90	-14.78	123.75	-5.84	125.3	-9.08	126.3	-14.48	124.25	-19.01	124	-20.49	122.2	-12.24	122.4	-10.41	118.5	-17.39	90	-12.43		
95	-12.2	130.95	-5.14	132.9	-8.07	133.85	-13.66	132.3	-19.73	131.95	-21.42	130.4	-12.03	129.9	-9.6	126	-17.03	95	-9.7		
100	-10.27	138.95	-4.7	140.45	-7.42	141.25	-12.75	140.35	-19.92	139.55	-21.52	138.05	-11.49	138.1	-8.43	133.35	-15.97	100	-7.68		
105	-8.75	146.1	-4.5	148.65	-7.2	148.75	-12.11	147.9	-20.21	147.1	-20.42	145.75	-10.63	145.75	-7.07	141.05	-14.41	105	-6.1		
110	-7.51	154.1	-4.59	156.2	-7.39	156.15	-11.73	155.45	-21.15	154.6	-18.86	153.2	-9.69	153.25	-5.74	148.65	-12.64	110	-4.82		
115	-6.48	162.35	-4.82	163.15	-7.72	163.3	-11.65	163	-23.44	162.05	-17.37	161.85	-8.8	161.2	-4.54	156.25	-10.99	115	-3.76		
120	-5.62	169.8	-5.22	171.8	-8.14	170.95	-11.67	170.6	-28.9	169.5	-16.28	168.9	-8.07	168.8	-3.61	163.75	-9.55	120	-2.88		
125	-4.9	177.85	-5.7	179	-8.18	179.1	-11.5	178.2	-46.35	177.75	-15.45	176.9	-7.57	176.3	-2.9	171.3	-8.39	125	-2.14		
130	-4.3	185.35	-6.2	186.5	-7.66	186.6	-10.95	185.4	-28.08	185.45	-15.07	185.5	-7.33	183.8	-2.49	179.05	-7.51	130	-1.51		
135	-3.8	192.85	-6.59	194	-6.87	194.1	-9.98	193.4	-22.53	193.85	-15.04	192.7	-7.16	191.3	-2.3	186.55	-6.87	135	-1		
140	-3.39	200.35	-7.02	202.05	-6.1	202.05	-8.98	201.1	-20.01	201.05	-15.33	200.15	-7.3	198.6	-2.39	194.2	-6.6	140	-0.57		
145	-3.06	208.3	-7.44	209.25	-5.6	209.2	-8.21	208.6	-18.95	209.7	-15.95	208.05	-7.68	206.35	-2.87	201.65	-6.69	145	-0.23		
150	-2.8	215.85	-7.8	216.8	-5.63	216.95	-7.8	216.1	-18.84	216.7	-16.84	215.6	-8.29	214.35	-3.68	209.15	-7.12	150	0.04		
155	-2.62	223.85	-8.47	224.35	-6.2	224.45	-7.83	223.7	-19.37	224.2	-18.11	223.6	-9.54	222.6	-4.96	216.75	-8.01	155	0.23		
160	-2.51	231.55	-9.47	232.3	-7.33	231.8	-8.48	231.35	-20.33	232.5	-20.17	231.55	-11.42	229.9	-6.8	224.75	-9.6	160	0.36		
165	-2.46	238.65	-10.85	239.95	-9.27	239.95	-9.85	239.4	-21.53	240.05	-23.12	239.05	-14.67	237.5	-9.39	232.2	-12.14	165	0.42		
170	-2.48	246.2	-12.59	247.6	-11.96	247.2	-12.26	246.95	-22.77	247.55	-28.83	247	-20.53	245	-13.96	240.6	-16.94	170	0.41		
175	-2.57	254.6	-14.25	254.7	-14.15	255.25	-16.41	254.55	-23.95	255.1	-42.01	254.4	-35.95	253	-24.25	248.1	-22.27	175	0.33		
180	-2.73	262.1	-13.87	262.2	-12.87	263.05	-20.73	262.05	-24.66	263.25	-26.21	262.6	-18.12	260	-20.9	255.6	-16.62	180	0.19		
185	-2.95	269.55	-11.77	270.15	-9.81	270.6	-16.83	269.4	-24.77	270.25	-20.41	269.75	-12.84	267.95	-12.48	263.1	-11.63	185	-0.02		
190	-3.25	277.1	-9.5	277.65	-7.19	278.1	-12.37	277.45	-24.13	277.7	-16.84	277.95	-9.34	276.4	-8.18	270.65	-8.47	190	-0.31		
195	-3.63	284.65	-7.51	285.2	-5.3	285.7	-9.51	285	-23.44	285.2	-14.29	286.1	-7.11	283.4	-5.67	278.7	-6	195	-0.67		
200	-4.09	292.2	-6.07	292.8	-3.92	293.55	-7.64	292.55	-23.2	293.25	-12.35	293.6	-5.67	292	-3.72	286.35	-4.48	200	-1.12		
205	-4.66	300.15	-4.98	300.35	-3.11	300.85	-6.56	300.15	-23.5	300.85	-11.04	301.1	-4.62	300.75	-2.34	293.9	-3.37	205	-1.67		
210	-5.33	308.1	-4.22	307.95	-2.66	308.95	-6.08	307.15	-24.38	308.5	-10.11	308.65	-3.98	307.9	-1.54	301.4	-2.61	210	-2.32		
215	-6.13	315.5	-3.71	315.45	-2.44	316.55	-5.96	315.1	-24.62	315.65	-9.6	316.25	-3.61	315.45	-0.97	308.85	-2.17	215	-3.1		
220	-7.08	323.2	-3.44	323.45	-2.53	324.2	-6.08	322.45	-23.26	323.6	-9.49	323.4	-3.49	322.9	-0.62	316.15	-1.93	220	-4.02		
225	-8.23	331.35	-3.28	330.95	-2.81	331.7	-6.37	330.85	-20.48	331.15	-9.77	331.55	-3.72	331.25	-0.49	324.35	-1.94	225	-5.13		
230	-9.63	338.95	-3.23	338.5	-3.13	339.2	-6.49	338.35	-18.28	338.75	-10.48	339.15	-4.16	339.35	-0.59	331.8	-2.15	230	-6.49		
235	-11.38	346.55	-3.25	346.35	-3.51	346.75	-6.63	345.9	-16.75	345.7	-11.63	346.3	-4.93	346.95	-0.94	339.5	-2.54	235	-8.17		
240	-13.67	352.75	-3.27	353.05	-3.59	353.05	-6.62	353	-16.15	353	-12.33	353.2	-5.31	352.9	-1.14	346.65	-3.14	240	-10.34		
245	-16.87	355	-3.24	355	-3.63	355	-6.55	355	-16.15	355	-12.33	355	-5.33	355	-1.15	352.95	-3.42	245	-13.34		
250	-22.11	360	-3.4	360	-3.93	360	-6.5	360	-15.42	360	-14.38	360	-6.63	360	-1.78	355	-3.39	250	-18.06		
255	-37.81															360	-4.36	255	-29.45		
260	-25.55																	260	-24.75		
265	-18.56																	265	-16.54		
270	-14.78																	270	-12.43		
275	-12.2																	275	-9.7		
280	-10.27																	280	-7.68		
285	-8.75																	285	-6.1		
290	-7.51																	290	-4.82		
295	-6.48																	295	-3.76		
300	-5.62																	300	-2.88		
305	-4.9																	305	-2.14		
310	-4.3																	310	-1.51		
315	-3.8																	315	-1		
320	-3.39																	320	-0.57		
325	-3.06																	325	-0.23		
330	-2.8																	330	0.04		
335	-2.62																				

2380	Theta Ang		0		20		40		60		80		100		120		140		160		180	
	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response (dB)
0	-2.22	0	-2.86	0	-3.75	0	-6.19	0	-14.96	0	-14.08	0	-6.45	0	-1.59	0	-4.08	0	-4.08	0	0.4	
5	-2.45	0	-2.86	0.05	-3.73	0	-6.19	0.05	-14.97	0	-14.08	0	-6.45	0.05	-1.57	0	-4.08	5	-4.08	5	0.18	
10	-2.76	1.65	-2.89	3.4	-3.86	2.5	-6.1	2.9	-14.83	0.8	-14.19	1.6	-6.75	2.55	-1.92	0.15	-4.14	10	-4.14	10	-0.1	
15	-3.14	7.4	-3.09	10.85	-4.12	10.3	-6.12	9.95	-14.82	6.15	-16.42	7.6	-8.75	9.4	-3.05	4.3	-4.97	15	-4.97	15	-0.47	
20	-3.62	15.05	-3.39	18.35	-4.44	17.8	-6.29	18.1	-15.07	14.55	-19.22	15.25	-11.61	17.05	-4.47	11.65	-6.26	20	-6.26	20	-0.92	
25	-4.19	22.5	-3.83	26.2	-4.97	25.35	-6.71	25.3	-15.43	22.65	-20.71	22.7	-15.44	24	-6.12	19.75	-7.84	25	-7.84	25	-1.47	
30	-4.87	30.05	-4.47	33.95	-5.62	32.45	-7.32	32.95	-15.64	30.7	-20.05	30.2	-21.44	32	-8.02	27.2	-9.59	30	-9.59	30	-2.12	
35	-5.68	38.05	-5.3	41.5	-6.55	40.25	-8.1	41	-15.59	38.4	-21.62	38.2	-27.4	39.2	-10.01	34.7	-11.54	35	-11.54	35	-2.9	
40	-6.65	45.6	-6.43	49	-7.57	48.35	-9.16	48.25	-15.26	46.5	-27.37	45.8	-34.43	46.9	-11.62	42.2	-13.62	40	-13.62	40	-3.83	
45	-7.81	53.1	-7.96	56.45	-8.91	55.85	-10.11	55.85	-14.84	54.85	-34.43	53	-42.43	54.85	-12.41	49.7	-15.68	45	-15.68	45	-4.94	
50	-9.24	61.35	-9.98	63.9	-10.28	63.3	-10.94	63.8	-14.42	62.35	-42.43	60.45	-50.43	62.3	-12.38	57.15	-17.44	50	-17.44	50	-6.3	
55	-11.02	69.8	-12.35	71.4	-11.83	70.8	-11.58	71.3	-14.12	70.4	-48.08	68.65	-58.01	69.55	-11.97	65.1	-18.55	55	-18.55	55	-7.99	
60	-13.36	77.95	-13.9	79.4	-13.27	78.1	-12.08	78.9	-14.04	78.05	-56.23	76.25	-64.14	77.6	-11.56	72.2	-18.72	60	-18.72	60	-10.17	
65	-16.66	85.5	-13.41	86.6	-14.33	86.55	-12.49	86.1	-14.17	85.6	-64.58	83.75	-72.61	85.1	-11.3	79.5	-18.36	65	-18.36	65	-13.18	
70	-22.18	92.7	-11.53	94.5	-14.53	94.4	-12.99	94.05	-14.56	93.15	-72.69	91.25	-80.63	92.55	-12.33	92.55	-11.21	70	-17.94	70	-17.94	
75	-41.75	100.25	-9.56	102.1	-13.62	103.55	-13.58	101.75	-15.35	100.85	-80.63	98.7	-88.67	100.2	-11.21	95.35	-17.47	75	-29.59	75	-29.59	
80	-24.22	108.25	-7.78	109.25	-12.11	111.1	-14.06	108.95	-16.43	108.35	-88.63	106.7	-96.67	107.85	-11.28	102.9	-17.43	80	-24.34	80	-24.34	
85	-17.67	115.6	-6.34	117.4	-10.46	118.75	-14.21	116.6	-17.74	116.05	-96.63	114.2	-104.63	114.85	-11.25	110.95	-17.66	85	-16.25	85	-16.25	
90	-14.02	123.75	-5.37	125.3	-8.97	126.3	-13.84	124.25	-18.89	124	-104.63	122.2	-112.69	122.4	-10.9	118.5	-17.99	90	-12.18	90	-12.18	
95	-11.51	130.95	-4.66	132.9	-7.92	133.85	-13.06	132.3	-19.43	131.95	-112.63	130.4	-120.63	129.9	-10.1	126	-17.84	95	-9.46	95	-9.46	
100	-9.62	138.95	-4.2	140.45	-7.15	141.25	-12.21	140.35	-19.32	139.55	-120.63	138.05	-128.63	138.1	-8.85	133.35	-16.75	100	-7.45	100	-7.45	
105	-8.12	146.1	-4.01	148.65	-6.93	148.75	-11.62	147.9	-19.24	147.1	-128.63	145.75	-136.63	145.75	-7.31	141.05	-14.93	105	-5.87	105	-5.87	
110	-6.9	154.1	-4.03	156.2	-7.1	156.15	-11.33	155.45	-19.89	154.6	-136.63	153.2	-144.63	153.25	-5.88	148.65	-12.91	110	-4.59	110	-4.59	
115	-5.89	162.35	-4.27	163.15	-7.47	163.3	-11.35	163	-21.73	162.05	-144.63	161.85	-152.63	161.2	-4.48	156.25	-11.07	115	-3.54	115	-3.54	
120	-5.05	169.8	-4.63	171.8	-7.95	170.95	-11.49	170.6	-26.02	169.5	-152.63	168.9	-160.63	168.8	-3.51	163.75	-9.46	120	-2.66	120	-2.66	
125	-4.34	177.85	-5.15	179	-8.1	179.1	-11.39	178.2	-30.03	177.75	-160.63	176.9	-168.63	176.3	-2.72	171.3	-8.21	125	-1.92	125	-1.92	
130	-3.74	185.35	-5.67	186.5	-7.7	186.6	-10.84	185.4	-30.15	185.45	-168.63	185.5	-176.63	185.5	-2.23	179.05	-7.27	130	-1.3	130	-1.3	
135	-3.25	192.85	-6.24	194	-8.84	194.1	-9.86	193.4	-32.06	193.85	-176.63	192.7	-184.63	191.3	-1.98	186.55	-6.56	135	-0.78	135	-0.78	
140	-2.84	200.35	-6.62	202.05	-5.98	202.05	-8.81	201.1	-34.05	201.05	-184.63	200.15	-192.63	198.6	-2.02	194.2	-6.22	140	-0.35	140	-0.35	
145	-2.52	208.3	-7.17	209.25	-5.5	209.2	-8.02	208.6	-36.06	209.7	-192.63	208.05	-200.63	206.35	-2.43	201.65	-6.19	145	-0.01	145	-0.01	
150	-2.27	215.85	-7.6	216.8	-5.42	216.95	-7.5	216.1	-38.06	216.7	-200.63	215.6	-208.63	214.35	-3.2	209.15	-6.65	150	0.25	150	0.25	
155	-2.09	223.85	-8.38	224.35	-5.93	224.45	-7.49	223.7	-40.06	223.2	-208.63	223.6	-216.63	222.6	-4.42	216.75	-7.49	155	0.45	155	0.45	
160	-1.99	231.85	-9.41	232.3	-7.06	231.8	-8.13	231.35	-42.06	231.55	-216.63	231.55	-224.63	229.9	-6.21	224.75	-9.02	160	0.57	160	0.57	
165	-1.95	238.65	-10.83	239.95	-8.92	239.95	-9.44	239.4	-44.06	240.05	-224.63	239.05	-232.63	237.5	-8.71	232.2	-11.48	165	0.63	165	0.63	
170	-1.97	246.2	-12.56	247.6	-11.57	247.2	-11.66	246.95	-46.06	247.55	-232.63	247	-240.63	245	-13.1	240.6	-16.08	170	0.62	170	0.62	
175	-2.06	254.6	-14.1	254.7	-13.86	255.25	-15.47	254.55	-48.06	255.1	-240.63	254.4	-248.63	253	-22.57	248.1	-22.39	175	0.54	175	0.54	
180	-2.22	262.1	-13.55	262.2	-12.73	263.05	-19.51	262.05	-50.06	263.25	-248.63	262.6	-256.63	260	-17.89	260	-17.89	180	0.4	180	0.4	
185	-2.45	269.55	-11.39	270.15	-9.66	270.6	-16.65	269.4	-52.06	270.25	-256.63	269.75	-264.63	267.95	-12.4	263.1	-11.78	185	0.18	185	0.18	
190	-2.76	277.1	-9.12	277.65	-7.07	278.1	-12.34	277.45	-54.06	277.7	-264.63	277.7	-272.63	276.4	-7.95	270.65	-8.44	190	-0.1	190	-0.1	
195	-3.14	284.65	-7.12	285.2	-5.08	285.7	-9.37	285	-56.06	285.2	-272.63	285.2	-280.63	284.4	-5.41	278.7	-5.86	195	-0.47	195	-0.47	
200	-3.62	292.2	-5.7	292.8	-3.72	293.55	-7.57	292.55	-58.06	293.25	-280.63	293.6	-288.63	292	-3.39	286.35	-4.28	200	-0.92	200	-0.92	
205	-4.19	300.15	-4.61	300.35	-2.89	300.85	-6.5	300.15	-60.06	300.85	-288.63	301.1	-296.63	300.75	-2	293.9	-3.11	205	-1.47	205	-1.47	
210	-4.87	308.1	-3.82	307.95	-2.37	308.95	-5.89	307.15	-62.06	308.5	-296.63	308.65	-304.63	307.9	-1.14	301.4	-2.33	210	-2.12	210	-2.12	
215	-5.68	315.5	-3.3	315.45	-2.21	316.55	-5.75	315.1	-64.06	315.65	-304.63	316.25	-312.63	315.45	-0.6	308.85	-1.86	215	-2.9	215	-2.9	
220	-6.65	323.2	-2.97	323.45	-2.29	324.2	-5.86	322.45	-66.06	323.6	-312.63	323.4	-320.63	322.9	-0.24	316.15	-1.59	220	-3.83	220	-3.83	
225	-7.81	331.35	-2.8	330.95	-2.54	331.7	-6.09	330.85	-68.06	331.15	-320.63	331.55	-328.63	331.25	-0.13	324.35	-1.59	225	-4.94	225	-4.94	
230	-9.24	338.95	-2.72	338.5	-2.87	339.2	-6.22	338.35	-70.06	338.75	-328.63	339.15	-336.63	339.35	-0.27	331.8	-1.77	230	-6.3	230	-6.3	
235	-11.02	346.55	-2.72	346.35	-3.25	346.75	-6.31	345.9	-72.06	345.7	-336.63	346.3	-344.63	346.95	-0.63	339.5	-2.18	235	-7.99	235	-7.99	
240	-13.36	352.75	-2.76	353.05	-3.38	353.05	-6.26	353	-74.06	353	-344.63	353.2	-352.63	352.9	-0.87	346.65	-2.75	240	-10.17	240	-10.17	
245	-16.66	355	-2.72	355	-3.38	355	-6.29	355	-76.06	355	-352.63	355	-360.63	355	-0.85	352.95	-3.09	245	-13.18	245	-13.18	
250	-22.18	360	-2.86	360	-3.75	360	-6.19	360	-78.06	360	-360.63	360	-368.63	360	-1.59	355	-3.09	250	-17.94	250	-17.94	
255	-41.75															360	-4.08	255	-29.59	255	-29.59	
260	-24.22																	260	-24.34	260	-24.34	
265	-17.67																	265	-16.25	265	-16.25	
270	-14.02																	270	-12.18	270	-12.18	
275	-11.51																	275	-9.46	275	-9.46	
280	-9.62																	280	-7.45	280	-7.45	
285	-8.12																	285	-5.87	285	-5.87	
290	-6.9																	290	-4.59	290	-4.59	
295	-5.89																	295	-3.54	295	-3.54	
300	-5.05																	300	-2.66	300	-2.66	
305	-4.34																					

2400	Theta Ang	0		20		40		60		80		100		120		140		160		180	
	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)
	0	-1.53	0	-1.94	0	-3.43	0	-5.72	0	-14.16	0	-13.92	0	-6.75	0	-1.75	0	-4.24	0	0.39	
	5	-1.78	0	-1.94	0.05	-3.41	0	-5.72	0.05	-14.17	0	-13.92	0	-6.75	0.05	-1.72	0	-4.24	5	0.16	
	10	-2.1	1.65	-1.96	3.4	-3.56	2.5	-5.74	2.9	-14.11	0.8	-13.96	1.6	-6.97	2.55	-2.05	0.15	-4.29	10	-0.14	
	15	-2.5	7.4	-2.18	10.85	-3.88	10.3	-5.73	9.95	-14.19	6.15	-16.12	7.6	-9.3	9.4	-3.31	4.3	-5.07	15	-0.52	
	20	-2.99	15.05	-2.56	18.35	-4.24	17.8	-5.99	18.1	-14.6	14.55	-18.82	15.25	-12.82	17.05	-4.92	11.65	-6.62	20	-0.99	
	25	-3.58	22.5	-3.04	26.2	-4.78	25.35	-6.41	25.3	-15.03	22.65	-19.54	22.7	-17.63	24	-6.85	19.75	-8.51	25	-1.56	
	30	-4.29	30.05	-3.68	33.95	-5.48	32.45	-7.07	32.95	-15.28	30.7	-18.36	30.2	-23.66	32	-8.98	27.2	-10.58	30	-2.23	
	35	-5.13	38.05	-4.57	41.5	-6.49	40.25	-7.96	41	-15.19	38.4	-16.88	38.2	-21.96	39.2	-11.19	34.7	-12.94	35	-3.04	
	40	-6.14	45.6	-5.8	49	-7.58	48.35	-8.97	48.25	-14.77	46.5	-15.81	45.8	-17.94	46.9	-12.96	42.2	-15.46	40	-4.01	
	45	-7.35	53.1	-7.41	56.45	-8.84	55.85	-9.87	55.85	-14.21	54.85	-15.17	53	-15.75	54.85	-13.65	49.7	-18.02	45	-5.16	
	50	-8.84	61.35	-9.54	63.9	-10.12	63.3	-10.62	63.8	-13.68	62.35	-14.98	60.45	-14.47	62.3	-13.44	57.15	-20.18	50	-6.58	
	55	-10.72	69.8	-12.03	71.4	-11.45	70.8	-11.16	71.3	-13.29	70.4	-15.11	68.65	-13.7	69.55	-12.9	65.1	-21.16	55	-8.35	
	60	-13.21	77.95	-13.57	79.4	-12.62	78.1	-11.59	78.9	-13.14	78.05	-15.43	76.25	-13.24	77.6	-12.4	72.2	-20.76	60	-10.67	
	65	-16.81	85.5	-12.88	86.6	-13.49	86.55	-11.97	86.1	-13.27	85.6	-15.92	83.75	-12.95	85.1	-12.01	79.5	-19.61	65	-13.93	
	70	-23.22	92.7	-10.85	94.5	-13.81	94.4	-12.47	94.05	-13.7	93.15	-16.48	91.25	-12.83	92.55	-11.81	87.75	-18.4	70	-19.33	
	75	-41.21	100.25	-8.82	102.1	-13.32	103.55	-13.14	101.75	-14.58	100.85	-17.07	98.7	-12.81	100.2	-11.72	95.35	-17.58	75	-37.08	
	80	-21.66	108.25	-7.02	109.25	-12.13	111.1	-13.68	108.95	-15.82	108.35	-17.88	106.7	-12.91	107.85	-11.71	102.9	-17.25	80	-21.92	
	85	-16.04	115.6	-5.6	117.4	-10.63	118.75	-13.92	116.6	-17.38	116.05	-18.98	114.2	-13.17	114.85	-11.79	110.95	-17.52	85	-15.21	
	90	-12.7	123.75	-4.57	125.3	-9.09	126.3	-13.51	124.25	-18.92	124	-20.63	122.2	-13.46	122.4	-11.7	118.5	-18.38	90	-11.51	
	95	-10.35	130.95	-3.83	132.9	-7.88	133.85	-12.65	132.3	-19.63	131.95	-22.77	130.4	-13.58	129.9	-11.21	126	-19.52	95	-8.97	
	100	-8.55	138.95	-3.32	140.45	-7.03	141.25	-11.71	140.35	-19.27	139.55	-24.46	138.05	-13.21	138.1	-10.13	133.35	-19.84	100	-7.06	
	105	-7.11	146.1	-3.08	148.65	-6.63	148.75	-11.05	147.9	-18.67	147.1	-23.57	145.75	-12.22	145.75	-8.56	141.05	-18.08	105	-5.55	
	110	-5.94	154.1	-3.01	156.2	-6.59	156.15	-10.72	155.45	-18.77	154.6	-20.8	153.2	-10.91	153.25	-6.82	148.65	-15.23	110	-4.33	
	115	-4.97	162.35	-3.19	163.15	-6.88	163.3	-10.72	163	-19.94	162.05	-18.31	161.85	-9.47	161.2	-5.2	156.25	-12.63	115	-3.31	
	120	-4.15	169.8	-3.51	171.8	-7.38	170.95	-10.93	170.6	-22.81	169.5	-16.5	168.9	-8.3	168.8	-3.94	163.75	-10.46	120	-2.46	
	125	-3.47	177.85	-3.97	179	-7.69	179.1	-10.97	178.2	-29.3	177.75	-15.16	176.9	-7.38	176.3	-2.97	171.3	-8.81	125	-1.75	
	130	-2.9	185.35	-4.46	186.5	-7.47	186.6	-10.57	185.4	-37.56	185.45	-14.48	185.5	-6.72	183.8	-2.25	179.05	-7.46	130	-1.15	
	135	-2.42	192.85	-5.1	194	-6.84	194.1	-9.68	193.4	-25.14	193.85	-14.24	192.7	-6.39	191.3	-1.86	186.55	-6.63	135	-0.65	
	140	-2.03	200.35	-5.73	202.05	-6.05	202.05	-8.68	201.1	-20.84	201.05	-14.41	200.15	-6.29	198.6	-1.78	194.2	-6.09	140	-0.24	
	145	-1.73	208.3	-6.4	209.25	-5.5	209.2	-7.78	208.6	-18.89	209.7	-15.03	208.05	-6.47	206.35	-2.07	201.65	-5.88	145	0.08	
	150	-1.49	215.85	-7.16	216.8	-5.32	216.95	-7.31	216.1	-18.23	216.7	-16.01	215.6	-7.11	214.35	-2.7	209.15	-6.24	150	0.33	
	155	-1.33	223.85	-8.07	224.35	-5.65	224.45	-7.26	223.7	-18.4	224.2	-17.48	223.6	-8.25	222.6	-3.75	216.75	-6.79	155	0.51	
	160	-1.24	231.55	-9.27	232.3	-6.72	231.8	-7.73	231.35	-19.13	232.5	-19.8	231.55	-10.02	229.9	-5.4	224.75	-8.2	160	0.62	
	165	-1.21	238.65	-10.81	239.95	-8.41	239.95	-8.88	239.4	-20.31	240.05	-23.17	239.05	-13.09	237.5	-7.75	232.2	-10.39	165	0.66	
	170	-1.25	246.2	-12.61	247.6	-10.9	247.2	-10.8	246.95	-21.45	247.55	-29.2	247	-18.27	245	-11.75	240.6	-14.43	170	0.64	
	175	-1.36	254.6	-13.96	254.7	-13.19	255.25	-13.93	254.55	-22.38	255.1	-32.62	254.4	-34.84	253	-19.71	248.1	-20.91	175	0.55	
	180	-1.53	262.1	-13.11	262.2	-12.46	263.05	-17.14	262.05	-22.82	263.25	-24.18	262.6	-18.45	260	-24.42	255.6	-18.66	180	0.39	
	185	-1.78	269.55	-10.83	270.15	-9.5	270.6	-15.8	269.4	-22.61	270.25	-19.4	269.75	-12.68	267.95	-12.95	263.1	-12.51	185	0.16	
	190	-2.1	277.1	-8.57	277.65	-6.85	278.1	-12.15	277.45	-21.95	277.7	-16.21	277.95	-9.01	276.4	-8.06	270.65	-8.77	190	-0.14	
	195	-2.5	284.65	-6.57	285.2	-4.85	285.7	-9.35	285	-21.51	285.2	-13.8	286.1	-6.73	283.4	-5.34	278.7	-6	195	-0.52	
	200	-2.99	292.2	-5.1	292.8	-3.48	293.55	-7.44	292.55	-21.4	293.25	-11.93	293.6	-5.12	292	-3.2	286.35	-4.26	200	-0.99	
	205	-3.58	300.15	-3.96	300.35	-2.6	300.85	-6.37	300.15	-21.81	300.85	-10.59	301.1	-3.98	300.75	-1.72	293.9	-3.01	205	-1.56	
	210	-4.29	308.1	-3.11	307.95	-2.06	308.95	-5.72	307.15	-22.59	308.5	-9.6	308.65	-3.23	307.9	-0.87	301.4	-2.13	210	-2.23	
	215	-5.13	315.5	-2.5	315.45	-1.87	316.55	-5.5	315.1	-22.68	316.65	-9	316.25	-2.79	315.45	-0.27	308.85	-1.59	215	-3.04	
	220	-6.14	323.2	-2.15	323.45	-1.96	324.2	-5.56	322.45	-21.13	323.6	-8.82	323.4	-2.65	322.9	0.05	316.15	-1.3	220	-4.01	
	225	-7.35	331.35	-1.89	330.95	-2.21	331.7	-5.74	330.85	-18.62	331.15	-9.03	331.55	-2.84	331.25	0.14	324.35	-1.27	225	-5.16	
	230	-8.84	338.95	-1.79	338.5	-2.54	339.2	-5.77	338.35	-16.59	338.75	-9.71	339.15	-3.37	339.35	-0.08	331.8	-1.49	230	-6.58	
	235	-10.72	346.55	-1.78	346.35	-2.91	346.75	-5.84	345.9	-15.27	345.7	-10.8	346.3	-4.29	346.95	-0.54	339.5	-1.95	235	-8.35	
	240	-13.21	352.75	-1.77	353.05	-3.11	353.05	-5.82	353	-14.7	353	-11.74	353.2	-4.98	352.9	-0.85	346.65	-2.63	240	-10.67	
	245	-16.81	355	-1.79	355	-3.1	355	-5.85	355	-14.69	355	-11.75	355	-4.99	355	-0.84	352.95	-3.06	245	-13.93	
	250	-23.22	360	-1.94	360	-3.43	360	-5.72	360	-14.16	360	-13.92	360	-6.75	360	-1.75	355	-3.08	250	-19.33	
	255	-41.21															360	-4.24	255	-37.08	
	260	-21.66																	260	-21.92	
	265	-16.04																	265	-15.21	
	270	-12.7																	270	-11.51	
	275	-10.35																	275	-8.97	
	280	-8.55																	280	-7.06	
	285	-7.11																	285	-5.55	
	290	-5.94																	290	-4.33	
	295	-4.97																	295	-3.31	
	300	-4.15																	300	-2.46	
	305	-3.47																	305	-1.75	
	310	-2.9																	310	-1.15	
	315	-2.42																	315	-0.65	
	320	-2.03																	320	-0.24	
	325	-1.73																	325	0.08	
	330	-1.49																	330	0.33	
	335	-1																			

Phi	Frequency (MHz)		2350		20		40		60		80		100		120		140		160		180	
	Theta	Ang	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response (dB)
			0	-16.07	0	-10.82	0	-6.92	0	-4.18	0	-4.1	0	-3.21	0	-4.65	0	-6.24	0	-10.49	0	-12.23
			5	-13.26	0	-10.82	0.05	-6.9	0	-4.18	0.05	-4.14	0	-3.21	0	-4.65	0.05	-6.16	0	-10.49	5	-9.44
			10	-11.2	1.65	-10.38	3.4	-6.5	2.5	-4.33	2.9	-4.61	0.8	-3.17	1.6	-4.52	2.55	-5.18	0.15	-10.47	10	-7.39
			15	-9.58	7.4	-8.93	10.85	-5.58	10.3	-4.59	9.95	-5.39	6.15	-3.2	7.6	-3.87	9.4	-3.53	4.3	-9.56	15	-5.79
			20	-8.28	15.05	-7.58	18.35	-4.5	17.8	-4.26	18.1	-5.3	14.55	-2.94	15.25	-3.15	17.05	-2.28	11.65	-8.72	20	-4.49
			25	-7.2	22.5	-6.44	26.2	-3.26	25.35	-3.53	25.3	-4.42	22.65	-2.49	22.7	-2.48	24	-1.49	19.75	-8.1	25	-3.42
			30	-6.3	30.05	-5.38	33.95	-2.26	32.45	-2.64	32.95	-3.3	30.7	-2.07	30.2	-2.13	32	-0.96	27.2	-7.73	30	-2.53
			35	-5.55	38.05	-4.4	41.5	-1.35	40.25	-1.74	41	-2.38	38.4	-1.93	38.2	-1.99	39.2	-0.69	34.7	-7.6	35	-1.78
			40	-4.92	45.6	-3.48	49	-0.72	48.35	-1.02	48.25	-1.86	46.5	-2.01	45.8	-2.06	46.9	-0.69	42.2	-7.6	40	-1.15
			45	-4.39	53.1	-2.79	56.45	-0.29	55.85	-0.62	55.85	-1.57	54.85	-2.42	53	-2.32	54.85	-0.85	49.7	-7.67	45	-0.62
			50	-3.96	61.35	-2.14	63.9	-0.08	63.3	-0.42	63.8	-1.65	62.35	-3.03	60.45	-2.72	62.3	-1.17	57.15	-7.82	50	-0.19
			55	-3.61	69.8	-1.71	71.4	-0.02	70.8	-0.42	71.3	-1.89	70.4	-3.65	68.65	-3.23	69.55	-1.63	65.1	-8.16	55	0.16
			60	-3.34	77.95	-1.46	79.4	-0.13	78.1	-0.56	78.9	-2.23	78.05	-4.31	76.25	-3.74	77.6	-2.09	72.2	-8.48	60	0.43
			65	-3.14	85.5	-1.41	86.6	-0.33	86.55	-0.78	86.1	-2.66	85.6	-4.85	83.75	-4.28	85.1	-2.61	79.5	-8.94	65	0.63
			70	-3	92.7	-1.52	94.5	-0.68	94.4	-1.16	94.05	-3.08	93.15	-5.38	91.25	-4.76	92.55	-3.04	87.75	-9.28	70	0.75
			75	-2.94	100.25	-1.86	102.1	-1.16	103.55	-1.54	101.75	-3.44	100.85	-5.67	98.7	-5.11	100.2	-3.38	95.35	-9.55	75	0.82
			80	-2.94	108.25	-2.38	109.25	-1.77	111.1	-1.96	108.95	-3.72	108.35	-5.74	106.7	-5.4	107.85	-3.54	102.9	-9.63	80	0.81
			85	-3.01	115.6	-3.13	117.4	-2.5	118.75	-2.44	116.6	-3.97	116.05	-5.66	114.2	-5.46	114.85	-3.63	110.95	-9.55	85	0.74
			90	-3.15	123.75	-3.99	125.3	-3.44	126.3	-2.98	124.25	-4.13	124	-5.31	122.2	-5.41	122.4	-3.66	118.5	-9.26	90	0.6
			95	-3.36	130.95	-5.06	132.9	-4.38	133.85	-3.75	132.3	-4.32	131.95	-5.08	130.4	-5.27	129.9	-3.63	126	-8.97	95	0.39
			100	-3.64	138.95	-6.24	140.45	-5.33	141.25	-4.56	140.35	-4.56	139.55	-4.81	138.05	-5.16	138.1	-3.73	133.35	-8.76	100	0.11
			105	-3.99	146.1	-7.33	148.65	-5.99	148.75	-5.24	147.9	-4.87	147.1	-4.62	145.75	-5.07	145.75	-3.94	141.05	-8.73	105	-0.25
			110	-4.44	154.1	-8.38	156.2	-6.26	156.15	-5.81	155.45	-4.98	154.6	-4.49	153.2	-5.05	153.25	-4.46	148.65	-8.94	110	-0.69
			115	-4.97	162.35	-9.06	163.15	-6.3	163.3	-5.92	163	-5.04	162.05	-4.29	161.85	-5.02	161.2	-5.25	156.25	-9.43	115	-1.23
			120	-5.61	169.8	-9.51	171.8	-6.31	170.95	-5.63	170.6	-5.03	169.5	-4.17	168.9	-5.08	168.8	-5.22	163.75	-10.31	120	-1.88
			125	-6.38	177.85	-9.69	179	-6.57	179.1	-5.51	178.2	-5.17	177.75	-4.32	176.9	-5.13	176.3	-7.36	171.3	-11.64	125	-2.65
			130	-7.29	185.35	-9.89	186.5	-7.35	186.6	-5.68	185.4	-5.83	185.45	-5.01	185.5	-5.42	183.8	-8.24	179.05	-13.49	130	-3.56
			135	-8.38	192.85	-10.05	194	-8.76	194.1	-6.51	193.4	-7.19	193.85	-6.62	192.7	-6.06	191.3	-8.31	186.55	-15.81	135	-4.66
			140	-9.71	200.35	-10.1	202.05	-10.88	202.05	-8.35	201.1	-9.51	201.05	-9.03	200.15	-7.12	198.6	-7.32	194.2	-16.9	140	-6
			145	-11.36	208.3	-9.74	209.25	-12.04	209.2	-11.47	208.6	-12.16	209.7	-11.97	208.05	-8.69	206.35	-5.8	201.65	-15.16	145	-7.66
			150	-13.48	215.85	-9	216.8	-10.26	216.95	-14.82	216.1	-11.95	216.7	-10.78	215.6	-9.68	214.35	-4.23	209.15	-12.28	150	-9.79
			155	-16.38	223.85	-7.85	224.35	-7.32	224.45	-12.36	223.7	-8.86	224.2	-7.24	223.6	-9	222.6	-2.89	216.75	-9.76	155	-12.72
			160	-20.89	231.55	-6.65	232.3	-4.94	231.8	-7.96	231.35	-5.92	232.5	-4.35	231.55	-7.07	229.9	-1.88	224.75	-7.71	160	-17.29
			165	-30.97	238.65	-5.52	239.95	-3.25	239.95	-5.07	239.4	-3.9	240.05	-2.53	239.05	-5.24	237.5	-1.16	232.2	-6.33	165	-27.74
			170	-29.39	246.2	-4.69	247.6	-2.15	247.2	-3.25	246.95	-2.65	247.55	-1.46	247	-4.03	245	-0.65	240.6	-5.22	170	-25.21
			175	-20.36	254.6	-4.13	254.7	-1.56	255.25	-2.13	254.55	-1.93	255.1	-0.95	254.4	-3.28	253	-0.37	248.1	-4.62	175	-16.46
			180	-16.07	262.1	-3.85	262.2	-1.4	263.05	-1.69	262.05	-1.69	263.25	-0.89	262.6	-3.14	260	-0.33	255.6	-4.38	180	-12.23
			185	-13.26	269.55	-3.95	270.15	-1.64	270.6	-1.89	269.4	-2.03	270.25	-1.32	269.75	-3.44	267.95	-0.49	263.1	-4.39	185	-9.44
			190	-11.2	277.1	-4.43	277.65	-2.38	278.1	-2.61	277.45	-2.94	277.7	-2.24	277.95	-4.29	276.4	-0.89	270.65	-4.76	190	-7.39
			195	-9.58	284.65	-5.25	285.2	-3.64	285.7	-4.04	285	-4.45	285.2	-3.69	286.1	-5.48	283.4	-1.47	278.7	-5.56	195	-5.79
			200	-8.28	292.2	-6.52	292.8	-5.54	293.55	-6.4	292.55	-6.89	293.25	-5.84	293.6	-6.66	292	-2.43	286.35	-6.7	200	-4.49
			205	-7.2	300.15	-8.35	300.35	-8.26	300.85	-9.46	300.15	-10.37	300.85	-7.96	301.1	-7.44	300.75	-3.68	293.9	-8.27	205	-3.42
			210	-6.3	308.1	-11.07	307.95	-11.96	308.95	-12.17	307.15	-12.75	308.5	-9	308.65	-7.38	307.9	-5.01	301.4	-10.3	210	-2.53
			215	-5.55	315.5	-14.95	315.45	-15.84	316.55	-10.56	315.1	-9.94	315.65	-7.6	316.25	-6.63	315.45	-6.7	308.85	-13.03	215	-1.78
			220	-4.92	323.2	-20.2	323.45	-14.48	324.2	-7.62	322.45	-6.74	323.6	-5.6	323.4	-5.83	322.9	-8.72	316.15	-16.49	220	-1.15
			225	-4.39	331.35	-22.02	330.95	-11.35	331.7	-5.6	330.85	-4.5	331.15	-4.22	331.55	-5.29	331.25	-10.79	324.35	-18.87	225	-0.62
			230	-3.96	338.95	-17.37	338.5	-9.27	339.2	-4.48	338.35	-3.57	338.75	-3.4	339.15	-5.05	339.35	-11.07	331.8	-17.57	230	-0.19
			235	-3.61	346.55	-13.96	346.35	-7.95	346.75	-4.07	345.9	-3.33	345.7	-3.09	346.3	-4.91	346.95	-9.38	339.5	-14.95	235	0.16
			240	-3.34	352.75	-12.85	353.05	-7.67	353.05	-3.95	353	-3.43	353	-3.06	353.2	-4.92	352.9	-8.5	346.65	-12.74	240	0.43
			245	-3.14	355	-12.84	355	-7.6	355	-3.98	355	-3.43	355	-3.03	355	-4.91	355	-8.6	352.95	-12.12	245	0.63
			250	-3	360	-10.82	360	-6.92	360	-4.18	360	-4.1	360	-3.21	360	-4.65	360	-6.24	355	-12.11	250	0.75
			255	-2.94															360	-10.49	255	0.82
			260	-2.94																	260	0.81
			265	-3.01																	265	0.74
			270	-3.15																	270	0.6
			275	-3.36																	275	0.39
			280	-3.64																	280	0.11
			285	-3.99																	285	-0.25
			290	-4.44																	290	-0.69
			295	-4.97																	295	-1.23
			300	-5.61																	300	-1.88
			305	-6.38																	305	-2.65
			310	-7.29																	310	-3.56
			315	-8.38																	315	-4.66
			320	-9.71																	320	-6
			325	-11.36																	325	-7.66
			330																			

2360 Theta Ang	0		20		40		60		80		100		120		140		160		180	
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)
0	-15.13	0	-10.58	0	-6.48	0	-3.99	0	-3.92	0	-2.88	0	-4.34	0	-5.89	0	-10.17	0	-12.11	
5	-12.44	0	-10.58	0.05	-6.48	0	-3.99	0.05	-3.91	0	-2.88	0	-4.34	0.05	-5.89	0	-10.17	0	-9.37	
10	-10.45	1.65	-10.21	3.4	-5.98	2.5	-4.11	2.9	-4.4	0.8	-2.89	1.6	-4.2	2.55	-4.98	0.15	-10.14	10	-7.35	
15	-8.88	7.4	-8.73	10.85	-5.2	10.3	-4.25	9.95	-5.1	6.15	-2.96	7.6	-3.63	9.4	-3.43	4.3	-9.33	15	-5.76	
20	-7.61	15.05	-7.5	18.35	-4.17	17.8	-3.99	18.1	-5.09	14.55	-2.81	15.25	-2.96	17.05	-2.26	11.65	-8.57	20	-4.48	
25	-6.56	22.5	-6.26	26.2	-3.05	25.35	-3.29	25.3	-4.25	22.65	-2.43	22.7	-2.5	24	-1.48	19.75	-8.06	25	-3.42	
30	-5.68	30.05	-5.22	33.95	-2.07	32.45	-2.49	32.95	-3.19	30.7	-2.14	30.2	-2.19	32	-0.99	27.2	-7.76	30	-2.53	
35	-4.95	38.05	-4.25	41.5	-1.26	40.25	-1.64	41	-2.3	38.4	-2.09	38.2	-2.14	39.2	-0.76	34.7	-7.59	35	-1.79	
40	-4.33	45.6	-3.38	49	-0.65	48.35	-0.98	48.25	-1.74	46.5	-2.25	45.8	-2.28	46.9	-0.78	42.2	-7.67	40	-1.17	
45	-3.82	53.1	-2.64	56.45	-0.24	55.85	-0.59	55.85	-1.56	54.85	-2.71	53	-2.57	54.85	-0.97	49.7	-7.79	45	-0.65	
50	-3.39	61.35	-2.01	63.9	-0.05	63.3	-0.39	63.8	-1.6	62.35	-3.25	60.45	-2.99	62.3	-1.33	57.15	-8.06	50	-0.22	
55	-3.05	69.8	-1.55	71.4	-0.01	70.8	-0.39	71.3	-1.83	70.4	-3.94	68.65	-3.5	69.55	-1.79	65.1	-8.37	55	0.12	
60	-2.79	77.95	-1.29	79.4	-0.11	78.1	-0.56	78.9	-2.23	78.05	-4.53	76.25	-4.04	77.6	-2.32	72.2	-8.76	60	0.39	
65	-2.6	85.5	-1.25	86.6	-0.32	86.55	-0.8	86.1	-2.63	85.6	-5.17	83.75	-4.56	85.1	-2.8	79.5	-9.15	65	0.58	
70	-2.48	92.7	-1.34	94.5	-0.68	94.4	-1.15	94.05	-3.06	93.15	-5.66	91.25	-5.04	92.55	-3.29	87.75	-9.57	70	0.71	
75	-2.42	100.25	-1.65	102.1	-1.17	103.55	-1.56	101.75	-3.51	100.85	-6.05	98.7	-5.53	100.2	-3.69	95.35	-9.86	75	0.77	
80	-2.44	108.25	-2.17	109.25	-1.76	111.1	-1.95	108.95	-3.83	108.35	-6.2	106.7	-5.77	107.85	-3.89	102.9	-9.96	80	0.76	
85	-2.51	115.6	-2.89	117.4	-2.46	118.75	-2.4	116.6	-4.04	116.05	-6.17	114.2	-5.91	114.85	-3.98	110.95	-9.86	85	0.68	
90	-2.66	123.75	-3.78	125.3	-3.35	126.3	-2.98	124.25	-4.27	124	-5.95	122.2	-5.85	122.4	-3.97	118.55	-9.57	90	0.54	
95	-2.88	130.95	-4.79	132.9	-4.4	133.85	-3.67	132.3	-4.49	131.95	-5.6	130.4	-5.74	129.9	-3.96	126	-9.18	95	0.33	
100	-3.16	138.95	-5.97	140.45	-5.34	141.25	-4.46	140.35	-4.71	139.55	-5.26	138.05	-5.56	138.1	-3.96	133.35	-8.95	100	0.04	
105	-3.53	146.1	-7.08	148.65	-6.05	148.75	-5.18	147.9	-4.88	147.1	-4.91	145.75	-5.39	145.75	-4.12	141.05	-8.86	105	-0.32	
110	-3.99	154.1	-8.12	156.2	-6.29	156.15	-5.63	155.45	-4.95	154.6	-4.58	153.2	-5.21	153.25	-4.53	148.65	-8.95	110	-0.77	
115	-4.54	162.35	-8.85	163.15	-6.32	163.3	-5.75	163	-4.88	162.05	-4.28	161.85	-5.05	161.2	-5.17	156.25	-9.32	115	-1.31	
120	-5.19	169.8	-9.2	171.8	-6.22	170.95	-5.52	170.6	-4.83	169.5	-4.1	168.9	-5.01	168.8	-6.06	163.75	-10.12	120	-1.96	
125	-5.98	177.85	-9.37	179	-6.4	179.1	-5.33	178.2	-4.98	177.75	-4.15	176.9	-5.05	176.3	-7.05	171.3	-11.35	125	-2.74	
130	-6.91	185.35	-9.5	186.5	-7.14	186.6	-5.48	185.4	-5.57	185.45	-4.81	185.5	-5.28	183.8	-7.95	179.05	-13.04	130	-3.66	
135	-8.03	192.85	-9.62	194	-8.51	194.1	-6.25	193.4	-6.95	193.85	-6.41	192.7	-5.92	191.3	-8.16	186.55	-15.29	135	-4.77	
140	-9.39	200.35	-9.64	202.05	-10.53	202.05	-7.96	201.1	-9.24	201.05	-8.85	200.15	-7.02	198.6	-7.4	194.2	-16.69	140	-6.12	
145	-11.09	208.3	-9.36	209.25	-11.91	209.2	-10.79	208.6	-11.99	209.7	-12.01	208.05	-8.56	206.35	-5.91	201.65	-15.37	145	-7.8	
150	-13.29	215.85	-8.68	216.8	-10.41	216.95	-13.99	216.1	-12.03	216.7	-11.09	215.6	-9.56	214.35	-4.34	209.15	-12.53	150	-9.97	
155	-16.34	223.85	-7.58	224.35	-7.49	224.45	-12.37	223.7	-8.94	224.2	-7.49	223.6	-8.9	222.6	-2.95	216.75	-9.9	155	-12.96	
160	-21.19	231.55	-6.42	232.3	-5.06	231.8	-8.21	231.35	-6.02	232.5	-4.47	231.55	-7.03	229.9	-1.87	224.75	-7.89	160	-17.66	
165	-33.41	238.65	-5.45	239.95	-3.29	239.95	-5.25	239.4	-4	240.05	-2.64	239.05	-5.16	237.5	-1.1	232.2	-6.34	165	-28.92	
170	-27	246.2	-4.62	247.6	-2.16	247.2	-3.4	246.95	-2.66	247.55	-1.48	247	-3.92	245	-0.56	240.6	-5.22	170	-24.5	
175	-19.15	254.6	-4.05	254.7	-1.53	255.25	-2.27	254.55	-1.95	255.1	-0.94	254.4	-3.16	253	-0.25	248.1	-4.56	175	-16.22	
180	-15.13	262.1	-3.82	262.2	-1.35	263.05	-1.83	262.05	-1.75	263.25	-0.89	262.6	-2.99	260	-0.19	255.6	-4.26	180	-12.11	
185	-12.44	269.55	-3.96	270.15	-1.65	270.6	-1.94	269.4	-2.06	270.25	-1.31	269.75	-3.24	267.95	-0.34	263.1	-4.27	185	-9.37	
190	-10.45	277.1	-4.39	277.65	-2.36	278.1	-2.69	277.45	-2.99	277.7	-2.21	277.95	-4.11	276.4	-0.73	270.65	-4.62	190	-7.35	
195	-8.88	284.65	-5.19	285.2	-3.58	285.7	-4.04	285	-4.55	285.2	-3.67	286.1	-5.27	283.4	-1.32	278.7	-5.4	195	-5.76	
200	-7.61	292.2	-6.5	292.8	-5.52	293.55	-6.41	292.55	-7	293.25	-5.77	293.6	-6.46	292	-2.29	286.35	-6.57	200	-4.48	
205	-6.56	300.15	-8.31	300.35	-8.22	300.85	-9.42	300.15	-10.55	300.85	-7.99	301.1	-7.27	300.75	-3.54	293.9	-8.1	205	-3.42	
210	-5.68	308.1	-11.04	307.95	-12.04	308.95	-12.12	307.15	-12.77	308.5	-8.95	308.65	-7.3	307.9	-4.97	301.4	-10.18	210	-2.53	
215	-4.95	315.5	-14.97	315.45	-16.07	316.55	-10.52	315.1	-9.77	315.65	-7.59	316.25	-6.62	315.45	-6.75	308.85	-12.99	215	-1.79	
220	-4.33	323.2	-20.4	323.45	-14.5	324.2	-7.61	322.45	-6.6	323.6	-5.59	323.4	-5.92	322.9	-8.82	316.15	-16.5	220	-1.17	
225	-3.82	331.35	-22	330.95	-11.19	331.7	-5.56	330.85	-4.38	331.15	-4.11	331.55	-5.35	331.25	-10.88	324.35	-18.89	225	-0.65	
230	-3.39	338.95	-17.15	338.5	-9.01	339.2	-4.39	338.35	-3.4	338.75	-3.22	339.15	-5.01	339.35	-10.93	331.8	-17.29	230	-0.22	
235	-3.05	346.55	-13.74	346.35	-7.62	346.75	-3.93	345.9	-3.17	345.7	-2.92	346.3	-4.8	346.95	-9.11	339.5	-14.56	235	0.12	
240	-2.79	352.75	-12.57	353.05	-7.25	353.05	-3.82	353	-3.28	353	-2.88	353.2	-4.68	352.9	-8.2	346.65	-12.36	240	0.39	
245	-2.6	355	-12.56	355	-7.28	355	-3.82	355	-3.31	355	-2.86	355	-4.66	355	-8.2	352.95	-11.71	245	0.58	
250	-2.48	360	-10.58	360	-6.48	360	-3.99	360	-3.92	360	-2.88	360	-4.34	360	-5.89	355	-11.7	250	0.71	
255	-2.42															360	-10.17	255	0.77	
260	-2.44																	260	0.76	
265	-2.51																	265	0.68	
270	-2.66																	270	0.54	
275	-2.88																	275	0.33	
280	-3.16																	280	0.04	
285	-3.53																	285	-0.32	
290	-3.99																	290	-0.77	
295	-4.54																	295	-1.31	
300	-5.19																	300	-1.96	
305	-5.98																	305	-2.74	
310	-6.91																	310	-3.66	
315	-8.03																	315	-4.77	
320	-9.39																	320	-6.12	
325	-11.09																	325	-7.8	
330	-13.29																	330	-9.97	
335	-16.34																	335	-12.96	
340	-21.19																	340	-17.66	
345	-33.41																	345	-28.92	
350	-27																	350	-24.5	
355	-19.15		</																	

2370 Theta Ang	0		20		40		60		80		100		120		140		160		180	
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)
0	-14.78	0	-10.63	0	-6.31	0	-3.98	0	-3.99	0	-2.87	0	-4.28	0	-5.9	0	-10.19	0	-12.43	
5	-12.2	0	-10.63	0.05	-6.28	0	-3.98	0.05	-4	0	-2.87	0	-4.28	0.05	-5.9	0	-10.19	5	-9.7	
10	-10.27	1.65	-10.33	3.4	-5.91	2.5	-4.1	2.9	-4.42	0.8	-2.89	1.6	-4.15	2.55	-5.07	0.15	-10.17	10	-7.68	
15	-8.75	7.4	-8.9	10.85	-5.05	10.3	-4.27	9.95	-5.11	6.15	-2.99	7.6	-3.64	9.4	-3.6	4.3	-9.47	15	-6.1	
20	-7.51	15.05	-7.62	18.35	-4.09	17.8	-4.02	18.1	-5.11	14.55	-2.95	15.25	-3.11	17.05	-2.55	11.65	-8.8	20	-4.82	
25	-6.48	22.5	-6.44	26.2	-3.07	25.35	-3.38	25.3	-4.36	22.65	-2.7	22.7	-2.75	24	-1.8	19.75	-8.36	25	-3.76	
30	-5.62	30.05	-5.33	33.95	-2.15	32.45	-2.6	32.95	-3.41	30.7	-2.62	30.2	-2.56	32	-1.37	27.2	-8.16	30	-2.88	
35	-4.9	38.05	-4.34	41.5	-1.4	40.25	-1.85	41	-2.55	38.4	-2.58	38.2	-2.59	39.2	-1.18	34.7	-8.09	35	-2.14	
40	-4.3	45.6	-3.47	49	-0.83	48.35	-1.23	48.25	-1.98	46.5	-2.86	45.8	-2.77	46.9	-1.23	42.2	-8.15	40	-1.51	
45	-3.8	53.1	-2.73	56.45	-0.44	55.85	-0.82	55.85	-1.83	54.85	-3.32	53	-3.18	54.85	-1.42	49.7	-8.34	45	-1	
50	-3.39	61.35	-2.05	63.9	-0.28	63.3	-0.66	63.8	-1.9	62.35	-3.82	60.45	-3.62	62.3	-1.83	57.15	-8.61	50	-0.57	
55	-3.06	69.8	-1.58	71.4	-0.26	70.8	-0.68	71.3	-2.11	70.4	-4.49	68.65	-4.1	69.55	-2.31	65.1	-8.92	55	-0.23	
60	-2.8	77.95	-1.37	79.4	-0.38	78.1	-0.84	78.9	-2.43	78.05	-5.03	76.25	-4.63	77.6	-2.88	72.2	-9.29	60	0.04	
65	-2.62	85.5	-1.33	86.6	-0.59	86.55	-1.08	86.1	-2.86	85.6	-5.62	83.75	-5.18	85.1	-3.42	79.5	-9.8	65	0.23	
70	-2.51	92.7	-1.45	94.5	-0.93	94.4	-1.43	94.05	-3.28	93.15	-6.11	91.25	-5.64	92.55	-3.91	87.75	-10.25	70	0.36	
75	-2.46	100.25	-1.72	102.1	-1.4	103.55	-1.87	101.75	-3.81	100.85	-6.6	98.7	-6.11	100.2	-4.3	95.35	-10.6	75	0.42	
80	-2.48	108.25	-2.22	109.25	-1.97	111.1	-2.24	108.95	-4.16	108.35	-6.81	106.7	-6.42	107.85	-4.5	102.9	-10.74	80	0.41	
85	-2.57	115.6	-2.95	117.4	-2.66	118.75	-2.69	116.6	-4.48	116.05	-6.9	114.2	-6.62	114.85	-4.66	110.95	-10.61	85	0.33	
90	-2.73	123.75	-3.81	125.3	-3.62	126.3	-3.2	124.25	-4.69	124	-6.7	122.2	-6.59	122.4	-4.63	118.5	-10.25	90	0.19	
95	-2.95	130.95	-4.84	132.9	-4.57	133.85	-3.91	132.3	-4.96	131.95	-6.4	130.4	-6.38	129.9	-4.53	126	-9.83	95	-0.02	
100	-3.25	138.95	-6.01	140.45	-5.59	141.25	-4.64	140.35	-5.11	139.55	-5.98	138.05	-6.16	138.1	-4.44	133.35	-9.48	100	-0.31	
105	-3.63	146.1	-7.18	148.65	-6.3	148.75	-5.35	147.9	-5.24	147.1	-5.56	145.75	-5.91	145.75	-4.6	141.05	-9.34	105	-0.67	
110	-4.09	154.1	-8.27	156.2	-6.63	156.15	-5.76	155.45	-5.2	154.6	-5.12	153.2	-5.72	153.25	-4.92	148.65	-9.35	110	-1.12	
115	-4.66	162.35	-8.96	163.15	-6.61	163.3	-5.83	163	-5.03	162.05	-4.62	161.85	-5.41	161.2	-5.48	156.25	-9.68	115	-1.67	
120	-5.33	169.8	-9.28	171.8	-6.46	170.95	-5.63	170.6	-4.88	169.5	-4.35	168.9	-5.26	168.8	-6.22	163.75	-10.38	120	-2.32	
125	-6.13	177.85	-9.35	179	-6.54	179.1	-5.45	178.2	-5.01	177.75	-4.31	176.9	-5.23	176.3	-7.2	171.3	-11.51	125	-3.1	
130	-7.08	185.35	-9.39	186.5	-7.17	186.6	-5.55	185.4	-5.56	185.45	-4.87	185.5	-5.42	183.8	-8.05	179.05	-13.14	130	-4.02	
135	-8.23	192.85	-9.42	194	-8.43	194.1	-6.3	193.4	-6.94	193.85	-6.42	192.7	-6.08	191.3	-8.32	186.55	-15.31	135	-5.13	
140	-9.63	200.35	-9.39	202.05	-10.35	202.05	-7.79	201.1	-9.24	201.05	-8.88	200.15	-7.12	198.6	-7.64	194.2	-16.81	140	-6.49	
145	-11.38	208.3	-9.13	209.25	-11.9	209.2	-10.39	208.6	-12.08	209.7	-12.21	208.05	-8.67	206.35	-6.26	201.65	-15.7	145	-8.17	
150	-13.67	215.85	-8.56	216.8	-10.75	216.95	-13.32	216.1	-12.34	216.7	-11.63	215.6	-9.71	214.35	-4.66	209.15	-12.94	150	-10.34	
155	-16.87	223.85	-7.6	224.35	-7.98	224.45	-12.41	223.7	-9.25	224.2	-7.95	223.6	-9.06	222.6	-3.25	216.75	-10.32	155	-13.34	
160	-22.11	231.55	-6.6	232.3	-5.45	231.8	-8.63	231.35	-6.36	232.5	-4.81	231.55	-7.18	229.9	-2.16	224.75	-8.16	160	-18.06	
165	-37.81	238.65	-5.64	239.95	-3.64	239.95	-5.7	239.4	-4.21	240.05	-2.91	239.05	-5.33	237.5	-1.34	232.2	-6.67	165	-29.45	
170	-25.55	246.2	-4.84	247.6	-2.48	247.2	-3.81	246.95	-2.92	247.55	-1.77	247	-4.06	245	-0.76	240.6	-5.42	170	-24.75	
175	-18.56	254.6	-4.26	254.7	-1.82	255.25	-2.63	254.55	-2.25	255.1	-1.2	254.4	-3.26	253	-0.42	248.1	-4.8	175	-16.54	
180	-14.78	262.1	-4.06	262.2	-1.61	263.05	-2.16	262.05	-2.03	263.25	-1.11	262.6	-3.04	260	-0.3	255.6	-4.45	180	-12.43	
185	-12.2	269.55	-4.18	270.15	-1.85	270.6	-2.28	269.4	-2.36	270.25	-1.51	269.75	-3.33	267.95	-0.43	263.1	-4.44	185	-9.7	
190	-10.27	277.1	-4.66	277.65	-2.55	278.1	-2.96	277.45	-3.31	277.7	-2.42	277.95	-4.09	276.4	-0.85	270.65	-4.8	190	-7.68	
195	-8.75	284.65	-5.49	285.2	-3.84	285.7	-4.31	285	-4.86	285.2	-3.87	286.1	-5.21	283.4	-1.42	278.7	-5.55	195	-6.1	
200	-7.51	292.2	-6.73	292.8	-5.71	293.55	-6.6	292.55	-7.37	293.25	-5.97	293.6	-6.38	292	-2.42	286.35	-6.66	200	-4.82	
205	-6.48	300.15	-8.59	300.35	-8.5	300.85	-9.58	300.15	-10.91	300.85	-8.28	301.1	-7.34	300.75	-3.73	293.9	-8.27	205	-3.76	
210	-5.62	308.1	-11.34	307.95	-12.33	308.95	-12.22	307.15	-12.94	308.5	-9.3	308.65	-7.53	307.9	-5.2	301.4	-10.34	210	-2.88	
215	-4.9	315.5	-15.31	315.45	-16.43	316.55	-10.7	315.1	-9.84	315.65	-7.97	316.25	-7.03	315.45	-7.02	308.85	-13.18	215	-2.14	
220	-4.3	323.2	-20.71	323.45	-14.6	324.2	-7.81	322.45	-6.68	323.6	-5.83	323.4	-6.26	322.9	-9.2	316.15	-16.76	220	-1.51	
225	-3.8	331.35	-21.77	330.95	-11.18	331.7	-5.77	330.85	-4.52	331.15	-4.33	331.55	-5.56	331.25	-11.21	324.35	-19.06	225	-1	
230	-3.39	338.95	-17.06	338.5	-8.96	339.2	-4.56	338.35	-3.51	338.75	-3.37	339.15	-5.13	339.35	-11.03	331.8	-17.28	230	-0.57	
235	-3.06	346.55	-13.77	346.35	-7.54	346.75	-4.05	345.9	-3.3	345.7	-2.98	346.3	-4.82	346.95	-9.1	339.5	-14.48	235	-0.23	
240	-2.8	352.75	-12.56	353.05	-7.12	353.05	-3.92	353	-3.36	353	-2.91	353.2	-4.62	352.9	-8.09	346.65	-12.35	240	0.04	
245	-2.62	355	-12.53	355	-7.13	355	-3.93	355	-3.43	355	-2.92	355	-4.65	355	-8.09	352.95	-11.64	245	0.23	
250	-2.51	360	-10.63	360	-6.31	360	-3.98	360	-3.99	360	-2.87	360	-4.28	360	-5.9	355	-11.62	250	0.36	
255	-2.46															360	-10.19	255	0.42	
260	-2.48																	260	0.41	
265	-2.57																	265	0.33	
270	-2.73																	270	0.19	
275	-2.95																	275	-0.02	
280	-3.25																	280	-0.31	
285	-3.63																	285	-0.67	
290	-4.09																	290	-1.12	
295	-4.66																	295	-1.67	
300	-5.33																	300	-2.32	
305	-6.13																	305	-3.1	
310	-7.08																	310	-4.02	
315	-8.23																	315	-5.13	
320	-9.63																	320	-6.49	
325	-11.38																	325	-8.17	
330	-13.67																	330	-10.34	
335	-16.87																	335	-13.34	
340	-22.11																	340	-18.06	
345	-37.81																	345	-29.45	
350	-25.55																	350	-24.75	
355	-18.56																			

2380 Theta Ang	0		20		40		60		80		100		120		140		160		180	
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)
0	-14.02	0	-10.22	0	-5.63	0	-3.48	0	-3.5	0	-2.35	0	-3.69	0	-5.39	0	-9.78	0	-12.18	
5	-11.51	0	-10.22	0.05	-5.61	0	-3.48	0.05	-3.48	0	-2.35	0	-3.69	0.05	-5.37	0	-9.78	5	-9.46	
10	-9.62	1.65	-9.97	3.4	-5.24	2.5	-3.53	2.9	-3.8	0.8	-2.35	1.6	-3.61	2.55	-4.7	0.15	-9.77	10	-7.45	
15	-8.12	7.4	-8.53	10.85	-4.42	10.3	-3.67	9.95	-4.5	6.15	-2.5	7.6	-3.18	9.4	-3.32	4.3	-9.18	15	-5.87	
20	-6.9	15.05	-7.28	18.35	-3.55	17.8	-3.46	18.1	-4.58	14.55	-2.55	15.25	-2.76	17.05	-2.31	11.65	-8.58	20	-4.59	
25	-5.89	22.5	-6	26.2	-2.61	25.35	-2.94	25.3	-3.95	22.65	-2.55	22.7	-2.53	24	-1.65	19.75	-8.24	25	-3.54	
30	-5.05	30.05	-4.91	33.95	-1.77	32.45	-2.23	32.95	-3.04	30.7	-2.48	30.2	-2.47	32	-1.25	27.2	-8.08	30	-2.66	
35	-4.34	38.05	-3.9	41.5	-1.02	40.25	-1.54	41	-2.25	38.4	-2.6	38.2	-2.58	39.2	-1.12	34.7	-8.15	35	-1.92	
40	-3.74	45.6	-3.02	49	-0.51	48.35	-0.93	48.25	-1.7	46.5	-2.9	45.8	-2.88	46.9	-1.21	42.2	-8.27	40	-1.3	
45	-3.25	53.1	-2.27	56.45	-0.16	55.85	-0.57	55.85	-1.53	54.85	-3.34	53	-3.22	54.85	-1.48	49.7	-8.5	45	-0.78	
50	-2.84	61.35	-1.62	63.9	-0.02	63.3	-0.4	63.8	-1.55	62.35	-3.82	60.45	-3.65	62.3	-1.88	57.15	-8.82	50	-0.35	
55	-2.52	69.8	-1.19	71.4	0.02	70.8	-0.44	71.3	-1.74	70.4	-4.38	68.65	-4.15	69.55	-2.39	65.1	-9.21	55	-0.01	
60	-2.27	77.95	-0.93	79.4	-0.09	78.1	-0.58	78.9	-2.09	78.05	-4.89	76.25	-4.58	77.6	-2.93	72.2	-9.65	60	0.25	
65	-2.09	85.5	-0.89	86.6	-0.34	86.55	-0.83	86.1	-2.5	85.6	-5.35	83.75	-5.09	85.1	-3.55	79.5	-10.16	65	0.45	
70	-1.99	92.7	-1.04	94.5	-0.66	94.4	-1.19	94.05	-2.96	93.15	-5.86	91.25	-5.55	92.55	-4.08	87.75	-10.7	70	0.57	
75	-1.95	100.25	-1.27	102.1	-1.1	103.55	-1.6	101.75	-3.43	100.85	-6.41	98.7	-6	100.2	-4.5	95.35	-11.1	75	0.63	
80	-1.97	108.25	-1.75	109.25	-1.66	111.1	-2.02	108.95	-3.86	108.35	-6.79	106.7	-6.43	107.85	-4.67	102.9	-11.27	80	0.62	
85	-2.06	115.6	-2.47	117.4	-2.36	118.75	-2.46	116.6	-4.24	116.05	-6.96	114.2	-6.62	114.85	-4.73	110.95	-11.09	85	0.54	
90	-2.22	123.75	-3.31	125.3	-3.26	126.3	-2.95	124.25	-4.53	124	-6.91	122.2	-6.69	122.4	-4.74	118.5	-10.64	90	0.4	
95	-2.45	130.95	-4.28	132.9	-4.2	133.85	-3.66	132.3	-4.81	131.95	-6.64	130.4	-6.55	129.9	-4.57	126	-10.08	95	0.18	
100	-2.76	138.95	-5.5	140.45	-5.24	141.25	-4.35	140.35	-5.02	139.55	-6.21	138.05	-6.27	138.1	-4.48	133.35	-9.6	100	-0.1	
105	-3.14	146.1	-6.69	148.65	-6.02	148.75	-4.96	147.9	-5.06	147.1	-5.67	145.75	-5.92	145.75	-4.47	141.05	-9.29	105	-0.47	
110	-3.62	154.1	-7.84	156.2	-6.37	156.15	-5.36	155.45	-4.96	154.6	-5.07	153.2	-5.61	153.25	-4.75	148.65	-9.26	110	-0.92	
115	-4.19	162.35	-8.6	163.15	-6.3	163.3	-5.38	163	-4.68	162.05	-4.48	161.85	-5.29	161.2	-5.22	156.25	-9.51	115	-1.47	
120	-4.87	169.8	-9.9	171.8	-6.14	170.95	-5.21	170.6	-4.44	169.5	-4.08	168.9	-5.03	168.8	-5.97	163.75	-10.17	120	-2.12	
125	-5.68	177.85	-8.92	179	-6.19	179.1	-5.02	178.2	-4.49	177.75	-3.94	176.9	-4.92	176.3	-6.87	171.3	-11.24	125	-2.9	
130	-6.65	185.35	-8.83	186.5	-6.72	186.6	-5.09	185.4	-5.03	185.45	-4.42	185.5	-5.07	183.8	-7.71	179.05	-12.87	130	-3.83	
135	-7.81	192.85	-8.74	194	-7.84	194.1	-5.79	193.4	-6.37	193.85	-5.85	192.7	-5.7	191.3	-8.06	186.55	-15.07	135	-4.94	
140	-9.24	200.35	-8.62	202.05	-9.64	202.05	-7.23	201.1	-8.69	201.05	-8.28	200.15	-6.74	198.6	-7.41	194.2	-16.74	140	-6.3	
145	-11.02	208.3	-8.33	209.25	-11.25	209.2	-9.56	208.6	-11.67	209.7	-11.84	208.05	-8.3	206.35	-6.09	201.65	-15.7	145	-7.99	
150	-13.36	215.85	-7.82	216.8	-10.47	216.95	-12.18	216.1	-12.14	216.7	-11.68	215.6	-9.37	214.35	-4.47	209.15	-12.82	150	-10.17	
155	-16.66	223.85	-6.98	224.35	-7.83	224.45	-11.72	223.7	-9.05	224.2	-7.88	223.6	-8.75	222.6	-3	216.75	-10.14	155	-13.18	
160	-22.18	231.55	-6.07	232.3	-5.31	231.8	-8.39	231.35	-6.06	232.5	-4.63	231.55	-6.86	229.9	-1.86	224.75	-7.95	160	-17.94	
165	-41.75	238.65	-5.22	239.95	-3.44	239.95	-5.45	239.4	-3.95	240.05	-2.65	239.05	-4.95	237.5	-1.04	232.2	-6.33	165	-29.59	
170	-24.22	246.2	-4.54	247.6	-2.25	247.2	-3.67	246.95	-2.65	247.55	-1.49	247	-3.66	245	-0.4	240.6	-5.15	170	-24.34	
175	-17.67	254.6	-3.98	254.7	-1.54	255.25	-2.44	254.55	-1.9	255.1	-0.88	254.4	-2.85	253	-0.05	248.1	-4.44	175	-16.25	
180	-14.02	262.1	-3.75	262.2	-1.35	263.05	-1.93	262.05	-1.73	263.25	-0.8	262.6	-2.64	260	0.08	255.6	-4.07	180	-12.18	
185	-11.51	269.55	-3.93	270.15	-1.55	270.6	-2.01	269.4	-2.05	270.25	-1.2	269.75	-2.88	267.95	-0.04	263.1	-4.06	185	-9.46	
190	-9.62	277.1	-4.32	277.65	-2.24	278.1	-2.66	277.45	-3.01	277.7	-2.07	277.95	-3.62	276.4	-0.41	270.65	-4.4	190	-7.45	
195	-8.12	284.65	-5.17	285.2	-3.49	285.7	-3.98	285	-4.59	285.2	-3.5	286.1	-4.66	283.4	-1.02	278.7	-5.17	195	-5.87	
200	-6.9	292.2	-6.42	292.8	-5.41	293.55	-6.21	292.55	-7.2	292.55	-5.66	293.6	-5.93	292	-1.98	286.35	-6.33	200	-4.59	
205	-5.89	300.15	-8.31	300.35	-8.15	300.85	-9.11	300.15	-10.62	300.85	-7.96	301.1	-6.97	300.75	-3.35	293.9	-7.85	205	-3.54	
210	-5.05	308.1	-11.06	307.95	-12.01	308.95	-11.7	307.15	-12.47	308.5	-9.01	308.65	-7.26	307.9	-4.87	301.4	-9.94	210	-2.66	
215	-4.34	315.5	-14.98	315.45	-16.06	316.55	-10.33	315.1	-9.35	315.65	-7.72	316.25	-6.81	315.45	-6.79	308.85	-12.81	215	-1.92	
220	-3.74	323.2	-19.98	323.45	-14.06	324.2	-7.49	322.45	-6.23	323.6	-5.55	323.4	-6.05	322.9	-9.01	316.15	-16.39	220	-1.3	
225	-3.25	331.35	-20.71	330.95	-10.63	331.7	-5.4	330.85	-4.08	331.15	-3.96	331.55	-5.25	331.25	-10.91	324.35	-18.61	225	-0.78	
230	-2.84	338.95	-16.45	338.5	-8.38	339.2	-4.15	338.35	-3.07	338.75	-2.91	339.15	-4.71	339.35	-10.52	331.8	-16.7	230	-0.35	
235	-2.52	346.55	-13.35	346.35	-6.95	346.75	-3.58	345.9	-2.82	345.7	-2.44	346.3	-4.31	346.95	-8.56	339.5	-13.95	235	-0.01	
240	-2.27	352.75	-12.09	353.05	-6.46	353.05	-3.43	353	-2.91	353	-2.36	353.2	-4.05	352.9	-7.5	346.65	-11.86	240	0.25	
245	-2.09	355	-12.07	355	-6.46	355	-3.47	355	-2.89	355	-2.39	355	-4.07	355	-7.49	352.95	-11.12	245	0.45	
250	-1.99	360	-10.22	360	-5.63	360	-3.48	360	-3.5	360	-2.35	360	-3.69	360	-5.39	355	-11.12	250	0.57	
255	-1.95															360	-9.78	255	0.63	
260	-1.97																	260	0.62	
265	-2.06																	265	0.54	
270	-2.22																	270	0.4	
275	-2.45																	275	0.18	
280	-2.76																	280	-0.1	
285	-3.14																	285	-0.47	
290	-3.62																	290	-0.92	
295	-4.19																	295	-1.47	
300	-4.87																	300	-2.12	
305	-5.68																	305	-2.9	
310	-6.65																	310	-3.83	
315	-7.81																	315	-4.94	
320	-9.24																	320	-6.3	
325	-11.02																	325	-7.99	
330	-13.36																	330	-10.17	
335	-16.66																	335	-13.18	
340	-22.18																	340	-17.94	
345	-41.75																	345	-29.59	
350	-24.22																	350	-24.34	
355	-17.67																			

2400 Theta Ang	0		20		40		60		80		100		120		140		160		180	
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)
0	-12.7	0	-9.66	0	-4.55	0	-2.69	0	-2.71	0	-1.65	0	-3.01	0	-4.8	0	-9.4	0	-11.51	
5	-10.35	0	-9.66	0.05	-4.55	0	-2.69	0.05	-2.75	0	-1.65	0	-3.01	0.05	-4.78	0	-9.4	5	-8.97	
10	-8.55	1.65	-9.5	3.4	-4.16	2.5	-2.72	2.9	-3.06	0.8	-1.66	1.6	-2.92	2.55	-4.28	0.15	-9.4	10	-7.06	
15	-7.11	7.4	-7.98	10.85	-3.46	10.3	-2.86	9.95	-3.77	6.15	-1.9	7.6	-2.65	9.4	-3.01	4.3	-8.96	15	-5.55	
20	-5.94	15.05	-6.53	18.35	-2.78	17.8	-2.82	18.1	-4.01	14.55	-2.23	15.25	-2.45	17.05	-2.11	11.65	-8.51	20	-4.33	
25	-4.97	22.5	-5.29	26.2	-1.98	25.35	-2.46	25.3	-3.52	22.65	-2.43	22.7	-2.42	24	-1.52	19.75	-8.35	25	-3.31	
30	-4.15	30.05	-4.15	33.95	-1.26	32.45	-1.94	32.95	-2.65	30.7	-2.61	30.2	-2.5	32	-1.23	27.2	-8.36	30	-2.46	
35	-3.47	38.05	-3.15	41.5	-0.66	40.25	-1.29	41	-1.78	38.4	-2.79	38.2	-2.73	39.2	-1.18	34.7	-8.57	35	-1.75	
40	-2.9	45.6	-2.25	49	-0.2	48.35	-0.7	48.25	-1.27	46.5	-3.09	45.8	-3.14	46.9	-1.35	42.2	-8.86	40	-1.15	
45	-2.42	53.1	-1.54	56.45	0.13	55.85	-0.36	55.85	-1.06	54.85	-3.43	53	-3.48	54.85	-1.68	49.7	-9.16	45	-0.65	
50	-2.03	61.35	-0.93	63.9	0.28	63.3	-0.17	63.8	-1.04	62.35	-3.76	60.45	-3.84	62.3	-2.12	57.15	-9.49	50	-0.24	
55	-1.73	69.8	-0.48	71.4	0.31	70.8	-0.18	71.3	-1.21	70.4	-4.07	68.65	-4.21	69.55	-2.64	65.1	-9.87	55	0.08	
60	-1.49	77.95	-0.29	79.4	0.23	78.1	-0.29	78.9	-1.52	78.05	-4.37	76.25	-4.55	77.6	-3.22	72.2	-10.3	60	0.33	
65	-1.33	85.5	-0.24	86.6	0.02	86.55	-0.53	86.1	-1.91	85.6	-4.72	83.75	-4.93	85.1	-3.84	79.5	-10.87	65	0.51	
70	-1.24	92.7	-0.37	94.5	-0.29	94.4	-0.86	94.05	-2.36	93.15	-5.21	91.25	-5.39	92.55	-4.42	87.75	-11.62	70	0.62	
75	-1.21	100.25	-0.61	102.1	-0.72	103.55	-1.26	101.75	-2.86	100.85	-5.83	98.7	-5.86	100.2	-4.89	95.35	-12.36	75	0.66	
80	-1.25	108.25	-1.06	109.25	-1.26	111.1	-1.65	108.95	-3.34	108.35	-6.47	106.7	-6.41	107.85	-5.22	102.9	-12.89	80	0.64	
85	-1.36	115.6	-1.71	117.4	-1.93	118.75	-2.12	116.6	-3.81	116.05	-6.99	114.2	-6.73	114.85	-5.33	110.95	-12.86	85	0.55	
90	-1.53	123.75	-2.5	125.3	-2.81	126.3	-2.66	124.25	-4.26	124	-7.21	122.2	-6.98	122.4	-5.26	118.5	-12.19	90	0.39	
95	-1.78	130.95	-3.47	132.9	-3.75	133.85	-3.34	132.3	-4.58	131.95	-7.11	130.4	-6.88	129.9	-4.95	126	-11.24	95	0.16	
100	-2.1	138.95	-4.64	140.45	-4.78	141.25	-4	140.35	-4.97	139.55	-6.68	138.05	-6.56	138.1	-4.65	133.35	-10.29	100	-0.14	
105	-2.5	146.1	-5.79	148.65	-5.59	148.75	-6.3	147.9	-5.03	147.1	-6.06	145.75	-6.06	145.75	-4.45	141.05	-9.6	105	-0.52	
110	-2.99	154.1	-7	156.2	-5.95	156.15	-4.93	155.45	-4.81	154.6	-5.25	153.2	-5.54	153.25	-4.49	148.65	-9.22	110	-0.99	
115	-3.58	162.35	-7.87	163.15	-5.84	163.3	-4.89	163	-4.4	162.05	-4.4	161.85	-5.01	161.2	-4.84	156.25	-9.22	115	-1.56	
120	-4.29	169.8	-8.27	171.8	-5.63	170.95	-4.63	170.6	-3.96	169.5	-3.8	168.9	-4.74	168.8	-5.39	163.75	-9.66	120	-2.23	
125	-5.13	177.85	-8.27	179	-5.57	179.1	-4.43	178.2	-3.8	177.75	-3.5	176.9	-4.52	176.3	-6.23	171.3	-10.57	125	-3.04	
130	-6.14	185.35	-8.07	186.5	-5.96	186.6	-4.46	185.4	-4.22	185.45	-3.81	185.5	-4.69	183.8	-7.19	179.05	-12.13	130	-4.01	
135	-7.35	192.85	-7.77	194	-6.94	194.1	-5.1	193.4	-5.46	193.85	-5.12	192.7	-5.29	191.3	-7.8	186.55	-14.52	135	-5.16	
140	-8.84	200.35	-7.42	202.05	-8.52	202.05	-6.41	201.1	-7.73	201.05	-7.37	200.15	-6.3	198.6	-7.49	194.2	-17.05	140	-6.58	
145	-10.72	208.3	-6.96	209.25	-10.12	209.2	-8.41	208.6	-10.93	209.7	-11.13	208.05	-7.84	206.35	-6.14	201.65	-16.73	145	-8.35	
150	-13.21	215.85	-6.4	216.8	-9.87	216.95	-10.54	216.1	-12.24	216.7	-12.02	215.6	-8.95	214.35	-4.4	209.15	-13.39	150	-10.67	
155	-16.81	223.85	-5.7	224.35	-7.6	224.45	-10.4	223.7	-9.12	224.2	-8.22	223.6	-8.39	222.6	-2.82	216.75	-10.28	155	-13.93	
160	-23.22	231.55	-4.92	232.3	-5.14	231.8	-7.65	231.35	-5.92	232.5	-4.63	231.55	-6.48	229.9	-1.6	224.75	-7.81	160	-19.33	
165	-41.21	238.65	-4.25	239.95	-3.26	239.95	-5.02	239.4	-3.69	240.05	-2.59	239.05	-4.57	237.5	-0.67	232.2	-6.1	165	-37.08	
170	-21.66	246.2	-3.67	247.6	-1.95	247.2	-3.25	246.95	-2.3	247.55	-1.27	247	-3.24	245	0.03	240.6	-4.74	170	-21.92	
175	-16.04	254.6	-3.2	254.7	-1.21	255.25	-2.05	254.55	-1.56	255.1	-0.6	254.4	-2.39	253	0.44	248.1	-3.98	175	-15.21	
180	-12.7	262.1	-3.1	262.2	-0.97	263.05	-1.54	262.05	-1.36	263.25	-0.48	262.6	-2.1	260	0.59	255.6	-3.57	180	-11.51	
185	-10.35	269.55	-3.26	270.15	-1.14	270.6	-1.55	269.4	-1.7	270.25	-0.81	269.75	-2.31	267.95	0.51	263.1	-3.58	185	-8.97	
190	-8.55	277.1	-3.69	277.65	-1.81	278.1	-2.12	277.45	-2.64	277.7	-1.68	277.95	-2.98	276.4	0.14	270.65	-3.82	190	-7.06	
195	-7.11	284.65	-4.51	285.2	-2.96	285.7	-3.36	285	-4.26	285.2	-3.12	286.1	-4.06	283.4	-0.45	278.7	-4.58	195	-5.55	
200	-5.94	292.2	-5.74	292.8	-4.82	293.55	-5.45	292.55	-6.83	293.25	-5.39	293.6	-5.27	292	-1.44	286.35	-5.68	200	-4.33	
205	-4.97	300.15	-7.54	300.35	-7.46	300.85	-8.17	300.15	-10.19	300.85	-7.78	301.1	-6.39	300.75	-2.86	293.9	-7.24	205	-3.31	
210	-4.15	308.1	-10.11	307.95	-11.21	308.95	-10.87	307.15	-11.78	308.5	-8.91	308.65	-6.84	307.9	-4.4	301.4	-9.31	210	-2.46	
215	-3.47	315.5	-13.62	315.45	-15.1	316.55	-9.96	315.1	-8.66	315.65	-7.37	316.25	-6.49	315.45	-6.39	308.85	-12.13	215	-1.75	
220	-2.9	323.2	-17.76	323.45	-13.32	324.2	-7.19	322.45	-5.57	323.6	-4.97	323.4	-5.61	322.9	-8.63	316.15	-15.62	220	-1.15	
225	-2.42	331.35	-19.29	330.95	-9.89	331.7	-4.95	330.85	-3.39	331.15	-3.25	331.55	-4.72	331.25	-10.41	324.35	-17.68	225	-0.65	
230	-2.03	338.95	-16.03	338.5	-7.52	339.2	-3.61	338.35	-2.39	338.75	-2.21	339.15	-4.05	339.35	-9.85	331.8	-15.89	230	-0.24	
235	-1.73	346.55	-13.08	346.35	-6.03	346.75	-2.92	345.9	-2.06	345.7	-1.67	346.3	-3.57	346.95	-7.92	339.5	-13.28	235	0.08	
240	-1.49	352.75	-11.61	353.05	-5.42	353.05	-2.7	353	-2.16	353	-1.58	353.2	-3.32	352.9	-6.74	346.65	-11.34	240	0.33	
245	-1.33	355	-11.6	355	-5.42	355	-2.7	355	-2.16	355	-1.56	355	-3.33	355	-6.74	352.95	-10.55	245	0.51	
250	-1.24	360	-9.66	360	-4.55	360	-2.69	360	-2.71	360	-1.65	360	-3.01	360	-4.8	355	-10.54	250	0.62	
255	-1.21															360	-9.4	255	0.66	
260	-1.25																	260	0.64	
265	-1.36																	265	0.55	
270	-1.53																	270	0.39	
275	-1.78																	275	0.16	
280	-2.1																	280	-0.14	
285	-2.5																	285	-0.52	
290	-2.99																	290	-0.99	
295	-3.58																	295	-1.56	
300	-4.29																	300	-2.23	
305	-5.13																	305	-3.04	
310	-6.14																	310	-4.01	
315	-7.35																	315	-5.16	
320	-8.84																	320	-6.58	
325	-10.72																	325	-8.35	
330	-13.21																	330	-10.67	
335	-16.81																	335	-13.93	
340	-23.22																	340	-19.33	
345	-41.21																	345	-37.08	
350	-21.66																	350	-21.92	
355	-16.04			</																

2420 Theta Ang	0		20		40		60		80		100		120		140		160		180	
	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response (dB)
0	-12.18	0	-9.23	0	-3.9	0	-2.32	0	-2.57	0	-1.51	0	-2.8	0	-4.5	0	-9.3	0	-10.99	
5	-9.96	0	-9.23	0.05	-3.93	0	-2.32	0.05	-2.57	0	-1.51	0	-2.8	0.05	-4.5	0	-9.3	0	-8.55	
10	-8.24	1.65	-9.15	3.4	-3.68	2.5	-2.38	2.9	-2.88	0.8	-1.53	1.6	-2.78	2.55	-4.12	0.15	-9.3	10	-6.7	
15	-6.87	7.4	-7.82	10.85	-3.26	10.3	-2.69	9.95	-3.75	6.15	-1.85	7.6	-2.61	9.4	-2.91	4.3	-8.95	15	-5.23	
20	-5.74	15.05	-6.5	18.35	-2.77	17.8	-2.91	18.1	-4.05	14.55	-2.37	15.25	-2.54	17.05	-2.07	11.65	-8.56	20	-4.03	
25	-4.8	22.5	-5.32	26.2	-2.17	25.35	-2.69	25.3	-3.49	22.65	-2.77	22.7	-2.63	24	-1.52	19.75	-8.47	25	-3.04	
30	-4.01	30.05	-4.21	33.95	-1.55	32.45	-2.16	32.95	-2.57	30.7	-3.07	30.2	-2.88	32	-1.24	27.2	-8.57	30	-2.21	
35	-3.35	38.05	-3.15	41.5	-0.97	40.25	-1.56	41	-1.7	38.4	-3.27	38.2	-3.13	39.2	-1.16	34.7	-8.78	35	-1.51	
40	-2.8	45.6	-2.29	49	-0.48	48.35	-0.92	48.25	-1.13	46.5	-3.47	45.8	-3.54	46.9	-1.29	42.2	-8.98	40	-0.92	
45	-2.34	53.1	-1.53	56.45	-0.15	55.85	-0.53	55.85	-0.85	54.85	-3.56	53	-3.75	54.85	-1.55	49.7	-9.13	45	-0.44	
50	-1.97	61.35	-0.94	63.9	0.04	63.3	-0.34	63.8	-0.8	62.35	-3.67	60.45	-3.97	62.3	-1.95	57.15	-9.2	50	-0.04	
55	-1.68	69.8	-0.51	71.4	0.14	70.8	-0.32	71.3	-0.92	70.4	-3.71	68.65	-4.03	69.55	-2.39	65.1	-9.31	55	0.28	
60	-1.46	77.95	-0.3	79.4	0.12	78.1	-0.42	78.9	-1.21	78.05	-3.76	76.25	-4.21	77.6	-2.93	72.2	-9.51	60	0.52	
65	-1.32	85.5	-0.27	86.6	-0.04	86.55	-0.67	86.1	-1.57	85.6	-3.97	83.75	-4.45	85.1	-3.48	79.5	-9.88	65	0.69	
70	-1.23	92.7	-0.38	94.5	-0.32	94.4	-0.96	94.05	-2	93.15	-4.39	91.25	-4.76	92.55	-4.04	87.75	-10.54	70	0.79	
75	-1.22	100.25	-0.64	102.1	-0.67	103.55	-1.36	101.75	-2.52	100.85	-4.97	98.7	-5.24	100.2	-4.64	95.35	-11.4	75	0.82	
80	-1.27	108.25	-1.1	109.25	-1.19	111.1	-1.71	108.95	-3.01	108.35	-5.71	106.7	-5.85	107.85	-5.17	102.9	-12.36	80	0.79	
85	-1.39	115.6	-1.73	117.4	-1.87	118.75	-2.14	116.6	-3.55	116.05	-6.53	114.2	-6.53	114.85	-5.47	110.95	-13.01	85	0.7	
90	-1.58	123.75	-2.52	125.3	-2.8	126.3	-2.66	124.25	-4.1	124	-7.31	122.2	-7.04	122.4	-5.55	118.5	-12.88	90	0.53	
95	-1.84	130.95	-3.45	132.9	-3.78	133.85	-3.36	132.3	-4.65	131.95	-7.74	130.4	-7.32	129.9	-5.39	126	-12.05	95	0.29	
100	-2.18	138.95	-4.6	140.45	-4.95	141.25	-4.11	140.35	-5.12	139.55	-7.69	138.05	-7.21	138.1	-5.06	133.35	-10.93	100	-0.02	
105	-2.6	146.1	-5.68	148.65	-5.89	148.75	-4.77	147.9	-5.32	147.1	-6.94	145.75	-6.66	145.75	-4.76	141.05	-9.96	105	-0.41	
110	-3.11	154.1	-6.82	156.2	-6.34	156.15	-5.16	155.45	-5.1	154.6	-5.91	153.2	-6	153.25	-4.58	148.65	-9.3	110	-0.89	
115	-3.72	162.35	-7.67	163.15	-6.17	163.3	-5.11	163	-4.53	162.05	-4.88	161.85	-5.25	161.2	-4.66	156.25	-9.05	115	-1.47	
120	-4.45	169.8	-8.03	171.8	-5.71	170.95	-4.74	170.6	-3.98	169.5	-3.94	168.9	-4.71	168.8	-5.08	163.75	-9.22	120	-2.17	
125	-5.32	177.85	-8.05	179	-5.48	179.1	-4.36	178.2	-3.65	177.75	-3.5	176.9	-4.42	176.3	-5.76	171.3	-9.89	125	-2.99	
130	-6.37	185.35	-7.87	186.5	-5.69	186.6	-4.34	185.4	-3.91	185.45	-3.65	185.5	-4.51	183.8	-6.64	179.05	-11.21	130	-3.97	
135	-7.63	192.85	-7.6	194	-6.54	194.1	-4.89	193.4	-4.95	193.85	-4.8	192.7	-5.08	191.3	-7.43	186.55	-13.41	135	-5.16	
140	-9.19	200.35	-7.24	202.05	-8.09	202.05	-6.03	201.1	-7.07	201.05	-6.92	200.15	-6.11	198.6	-7.48	194.2	-16.19	140	-6.64	
145	-11.16	208.3	-6.78	209.25	-9.97	209.2	-7.98	208.6	-10.4	209.7	-10.76	208.05	-6.27	206.35	-6.27	201.65	-17.18	145	-8.44	
150	-13.82	215.85	-6.12	216.8	-10.22	216.95	-10	216.1	-12.68	216.7	-12.45	215.6	-8.74	214.35	-4.49	209.15	-14.1	150	-10.84	
155	-17.77	223.85	-5.36	224.35	-7.98	224.45	-9.96	223.7	-9.78	224.2	-8.68	223.6	-8.1	222.6	-2.76	216.75	-10.63	155	-14.27	
160	-25.37	231.55	-4.57	232.3	-5.31	231.8	-7.42	231.35	-6.28	232.5	-4.89	231.55	-6.17	229.9	-1.4	224.75	-7.95	160	-20.14	
165	-33.17	238.65	-3.88	239.95	-3.28	239.95	-4.85	239.4	-3.86	240.05	-2.7	239.05	-4.19	237.5	-0.39	232.2	-6.03	165	-39.18	
170	-20.21	246.2	-3.24	247.6	-1.9	247.2	-3.05	246.95	-2.44	247.55	-1.29	247	-2.86	245	0.39	240.6	-4.6	170	-20.61	
175	-15.26	254.6	-2.82	254.7	-1.07	255.25	-1.82	254.55	-1.65	255.1	-0.62	254.4	-2.01	253	0.86	248.1	-3.75	175	-14.5	
180	-12.18	262.1	-2.7	262.2	-0.75	263.05	-1.29	262.05	-1.42	263.25	-0.45	262.6	-1.69	260	1.08	255.6	-3.3	180	-10.99	
185	-9.96	269.55	-2.9	270.15	-0.85	270.6	-1.27	269.4	-1.76	270.25	-0.82	269.75	-1.83	267.95	1.01	263.1	-3.19	185	-8.55	
190	-8.24	277.1	-3.34	277.65	-1.49	278.1	-1.82	277.45	-2.71	277.7	-1.68	277.95	-2.44	276.4	0.68	270.65	-3.45	190	-6.7	
195	-6.87	284.65	-4.17	285.2	-2.7	285.7	-2.97	285	-4.44	285.2	-3.17	286.1	-3.44	283.4	0.13	278.7	-4.15	195	-5.23	
200	-5.74	292.2	-5.45	292.8	-4.54	293.55	-5.13	292.55	-6.91	293.25	-5.32	293.6	-4.6	292	-0.86	286.35	-5.19	200	-4.03	
205	-4.8	300.15	-7.25	300.35	-7.28	300.85	-7.86	300.15	-10.27	300.85	-7.76	301.1	-5.75	300.75	-2.29	293.9	-6.72	205	-3.04	
210	-4.01	308.1	-9.86	307.95	-11.1	308.95	-10.86	307.15	-11.2	308.5	-8.71	308.65	-6.41	307.9	-3.92	301.4	-8.72	210	-2.21	
215	-3.35	315.5	-13.38	315.45	-15.21	316.55	-10	315.1	-7.9	315.65	-6.99	316.25	-6.27	315.45	-6.03	308.85	-11.48	215	-1.51	
220	-2.8	323.2	-17.4	323.45	-12.78	324.2	-6.99	322.45	-5	323.6	-4.55	323.4	-5.59	322.9	-8.5	316.15	-15.03	220	-0.92	
225	-2.34	331.35	-18.33	330.95	-9.12	331.7	-4.63	330.85	-2.92	331.15	-2.9	331.55	-4.69	331.25	-10.58	324.35	-17.49	225	-0.44	
230	-1.97	338.95	-15.21	338.5	-6.7	339.2	-3.17	338.35	-1.95	338.75	-1.83	339.15	-3.97	339.35	-9.93	331.8	-15.94	230	-0.04	
235	-1.68	346.55	-12.51	346.35	-5.23	346.75	-2.46	345.9	-1.69	345.7	-1.37	346.3	-3.42	346.95	-7.86	339.5	-13.27	235	0.28	
240	-1.46	352.75	-11	353.05	-4.6	353.05	-2.23	353	-1.86	353	-1.3	353.2	-3.14	352.9	-6.46	346.65	-11.3	240	0.52	
245	-1.32	355	-10.99	355	-4.6	355	-2.21	355	-1.83	355	-1.32	355	-3.13	355	-6.45	352.95	-10.38	245	0.69	
250	-1.23	360	-9.23	360	-3.9	360	-2.32	360	-2.57	360	-1.51	360	-2.8	360	-4.5	355	-10.38	250	0.79	
255	-1.22															360	-9.3	255	0.82	
260	-1.27																	260	0.79	
265	-1.39																	265	0.7	
270	-1.58																	270	0.53	
275	-1.84																	275	0.29	
280	-2.18																	280	-0.02	
285	-2.6																	285	-0.41	
290	-3.11																	290	-0.89	
295	-3.72																	295	-1.47	
300	-4.45																	300	-2.17	
305	-5.32																	305	-2.99	
310	-6.37																	310	-3.97	
315	-7.63																	315	-5.16	
320	-9.19																	320	-6.61	
325	-11.16																	325	-8.44	
330	-13.82																	330	-10.84	
335	-17.77																	335	-14.27	
340	-25.37																	340	-20.14	
345	-33.17																	345	-39.18	
350	-20.21																	350	-20.61	
355	-15.26																	355	-14.5	
360	-12.18																	360	-10.99	

2510 Theta Ang	0		20		40		60		80		100		120		140		160		180	
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)
0	-12.3	0	-8.25	0	-3.44	0	-1.99	0	-2.05	0	-1.44	0	-2.53	0	-4.5	0	-10.22	0	-11.64	
5	-9.82	0	-8.25	0.05	-3.45	0	-1.99	0.05	-2.06	0	-1.44	0	-2.53	0.05	-4.54	0	-10.22	5	-9.33	
10	-7.95	1.65	-8.23	3.4	-3.41	2.5	-1.98	2.9	-2.09	0.8	-1.46	1.6	-2.61	2.55	-4.5	0.15	-10.21	10	-7.56	
15	-6.46	7.4	-7	10.85	-3.22	10.3	-2.46	9.95	-2.72	6.15	-1.88	7.6	-2.81	9.4	-3.89	4.3	-10.25	15	-6.15	
20	-5.25	15.05	-5.27	18.35	-3.11	17.8	-3.09	18.1	-3.23	14.55	-3.27	15.25	-3.65	17.05	-3.51	11.65	-10.84	20	-4.99	
25	-4.25	22.5	-3.81	26.2	-2.76	25.35	-3.45	25.3	-3.09	22.65	-4.61	22.7	-4.7	24	-3.26	19.75	-11.91	25	-4.03	
30	-3.41	30.05	-2.57	33.95	-2.32	32.45	-3.33	32.95	-2.41	30.7	-5.18	30.2	-5.61	32	-3.08	27.2	-13.03	30	-3.23	
35	-2.71	38.05	-1.58	41.5	-1.82	40.25	-2.82	41	-1.64	38.4	-4.62	38.2	-5.86	39.2	-2.97	34.7	-13.31	35	-2.55	
40	-2.12	45.6	-0.71	49	-1.27	48.35	-2.12	48.25	-0.98	46.5	-3.46	45.8	-5.32	46.9	-2.72	42.2	-12.26	40	-1.99	
45	-1.62	53.1	-0.08	56.45	-0.74	55.85	-1.49	55.85	-0.51	54.85	-2.22	53	-4.31	54.85	-2.52	49.7	-10.64	45	-1.52	
50	-1.22	61.35	0.45	63.9	-0.37	63.3	-1.12	63.8	-0.28	62.35	-1.31	60.45	-3.35	62.3	-2.29	57.15	-9.09	50	-1.14	
55	-0.9	69.8	0.77	71.4	-0.04	70.8	-0.86	71.3	-0.15	70.4	-0.62	68.65	-2.52	69.55	-2.16	65.1	-7.91	55	-0.83	
60	-0.66	77.95	0.9	79.4	0.17	78.1	-0.76	78.9	-0.11	78.05	-0.25	76.25	-1.9	77.6	-2.09	72.2	-7.19	60	-0.61	
65	-0.49	85.5	0.86	86.6	0.31	86.55	-0.8	86.1	-0.23	85.6	-0.12	83.75	-1.66	85.1	-2.15	79.5	-6.85	65	-0.45	
70	-0.38	92.7	0.67	94.5	0.35	94.4	-0.92	94.05	-0.4	93.15	-0.18	91.25	-1.56	92.55	-2.3	87.75	-6.9	70	-0.36	
75	-0.34	100.25	0.37	102.1	0.22	103.55	-1.14	101.75	-0.68	100.85	-0.55	98.7	-1.7	100.2	-2.72	95.35	-7.35	75	-0.34	
80	-0.37	108.25	-0.11	109.25	0.01	111.1	-1.41	108.95	-1.09	108.35	-1.13	106.7	-2.06	107.85	-3.26	102.9	-8.19	80	-0.38	
85	-0.47	115.6	-0.73	117.4	-0.37	118.75	-1.79	116.6	-1.65	116.05	-1.99	114.2	-2.72	114.85	-4.05	110.95	-9.5	85	-0.49	
90	-0.63	123.75	-1.51	125.3	-0.97	126.3	-2.3	124.25	-2.34	124	-3.16	122.2	-3.69	122.4	-5.07	118.5	-11.17	90	-0.67	
95	-0.86	130.95	-2.46	132.9	-1.79	133.85	-3.01	132.3	-3.32	131.95	-4.59	130.4	-5.03	129.9	-6.13	126	-12.92	95	-0.92	
100	-1.17	138.95	-3.58	140.45	-2.88	141.25	-3.89	140.35	-4.51	139.55	-6.47	138.05	-6.59	138.1	-7.03	133.35	-14.11	100	-1.25	
105	-1.56	146.1	-4.86	148.65	-4.17	148.75	-4.85	147.9	-5.67	147.1	-8.07	145.75	-8.1	145.75	-7.3	141.05	-13.8	105	-1.66	
110	-2.04	154.1	-6.29	156.2	-5.36	156.15	-5.59	155.45	-6.14	154.6	-8.35	153.2	-8.34	153.25	-6.9	148.65	-12.45	110	-2.16	
115	-2.61	162.35	-7.59	163.15	-6	163.3	-5.67	163	-5.37	162.05	-6.82	161.85	-6.98	161.2	-6.08	156.25	-11.08	115	-2.75	
120	-3.3	169.8	-8.36	171.8	-5.95	170.95	-5.14	170.6	-4.08	169.5	-4.99	168.9	-5.38	168.8	-5.39	163.75	-10.1	120	-3.47	
125	-4.11	177.85	-8.45	179	-5.44	179.1	-4.49	178.2	-3.05	177.75	-3.36	176.9	-4.11	176.3	-4.99	171.3	-9.69	125	-4.32	
130	-5.09	185.35	-8	186.5	-5.02	186.6	-4.18	185.4	-2.56	185.45	-2.76	185.5	-3.51	183.8	-4.97	179.05	-9.87	130	-5.34	
135	-6.27	192.85	-7.21	194	-5.07	194.1	-4.34	193.4	-2.91	193.85	-3.1	192.7	-3.56	191.3	-5.26	186.55	-10.76	135	-6.57	
140	-7.7	200.35	-6.33	202.05	-5.59	202.05	-5.12	201.1	-4.24	201.05	-4.41	200.15	-4.44	198.6	-5.79	194.2	-12.5	140	-8.08	
145	-9.51	208.3	-5.35	209.25	-6.56	209.2	-6.5	208.6	-6.75	209.7	-7.5	208.05	-6.14	206.35	-6.05	201.65	-15.11	145	-9.99	
150	-11.88	215.85	-4.48	216.8	-7.37	216.95	-7.85	216.1	-10.35	216.7	-11.98	215.6	-8.19	214.35	-5.45	209.15	-17.08	150	-12.54	
155	-15.24	223.85	-3.51	224.35	-7.09	224.45	-7.98	223.7	-11.46	224.2	-12.42	223.6	-8.84	222.6	-4.08	216.75	-14.7	155	-16.26	
160	-20.92	231.55	-2.79	232.3	-5.56	231.8	-6.34	231.35	-8	232.5	-7.36	231.55	-6.82	229.9	-2.53	224.75	-11.05	160	-23.04	
165	-40.34	238.65	-2.16	239.95	-3.74	239.95	-4.2	239.4	-4.91	240.05	-4.14	239.05	-4.2	237.5	-1.23	232.2	-8.22	165	-37.46	
170	-22.2	246.2	-1.65	247.6	-2.21	247.2	-2.58	246.95	-2.98	247.55	-2.15	247	-2.38	245	-0.05	240.6	-6	170	-20.25	
175	-15.87	254.6	-1.3	254.7	-1.25	255.25	-1.38	254.55	-1.88	255.1	-1.11	254.4	-1.11	253	0.73	248.1	-4.67	175	-14.88	
180	-12.3	262.1	-1.22	262.2	-0.63	263.05	-0.72	262.05	-1.4	263.25	-0.65	262.6	-0.52	260	1.18	255.6	-3.94	180	-11.64	
185	-9.82	269.55	-1.35	270.15	-0.53	270.6	-0.58	269.4	-1.46	270.25	-0.77	269.75	-0.41	267.95	1.35	263.1	-3.54	185	-9.33	
190	-7.95	277.1	-1.71	277.65	-0.94	278.1	-0.98	277.45	-2.02	277.7	-1.3	277.95	-0.79	276.4	1.18	270.65	-3.52	190	-7.56	
195	-6.46	284.65	-2.35	285.2	-1.89	285.7	-1.95	285	-3.16	285.2	-2.46	286.1	-1.64	283.4	0.69	278.7	-3.94	195	-6.15	
200	-5.25	292.2	-3.36	292.8	-3.43	293.55	-3.8	292.55	-4.8	293.25	-4.2	293.6	-2.88	292	-0.28	286.35	-4.78	200	-4.99	
205	-4.25	300.15	-4.79	300.35	-5.86	300.85	-6.38	300.15	-6.79	300.85	-6.21	301.1	-4.5	300.75	-1.81	293.9	-6.19	205	-4.03	
210	-3.41	308.1	-6.7	307.95	-9.38	308.95	-10.09	307.15	-8.03	308.5	-7.56	308.65	-6.23	307.9	-3.67	301.4	-8.06	210	-3.23	
215	-2.71	315.5	-9.24	315.45	-13.87	316.55	-11.26	315.1	-7.06	315.65	-6.76	316.25	-7.38	315.45	-6.16	308.85	-10.83	215	-2.55	
220	-2.12	323.2	-12.38	323.45	-13.03	324.2	-8.12	322.45	-5.04	323.6	-4.6	323.4	-6.91	322.9	-9.21	316.15	-14.58	220	-1.99	
225	-1.62	331.35	-16.21	330.95	-9.09	331.7	-5.17	330.85	-3.07	331.15	-2.8	331.55	-5.36	331.25	-11.22	324.35	-17.57	225	-1.52	
230	-1.22	338.95	-16.9	338.5	-6.44	339.2	-3.27	338.35	-1.94	338.75	-1.58	339.15	-3.98	339.35	-9.69	331.8	-15.95	230	-1.14	
235	-0.9	346.55	-13.97	346.35	-4.76	346.75	-2.24	345.9	-1.39	345.7	-0.98	346.3	-2.98	346.95	-7.46	339.5	-13.13	235	-0.83	
240	-0.66	352.75	-10.88	353.05	-3.86	353.05	-1.86	353	-1.42	353	-0.92	353.2	-2.52	352.9	-5.75	346.65	-11.37	240	-0.61	
245	-0.49	355	-10.78	355	-3.86	355	-1.84	355	-1.45	355	-0.93	355	-2.52	355	-5.69	352.95	-10.41	245	-0.45	
250	-0.38	360	-8.25	360	-3.44	360	-1.99	360	-2.05	360	-1.44	360	-2.53	360	-4.5	355	-10.4	250	-0.36	
255	-0.34															360	-10.22	255	-0.34	
260	-0.37																	260	-0.38	
265	-0.47																	265	-0.49	
270	-0.63																	270	-0.67	
275	-0.86																	275	-0.92	
280	-1.17																	280	-1.25	
285	-1.56																	285	-1.66	
290	-2.04																	290	-2.16	
295	-2.61																	295	-2.75	
300	-3.3																	300	-3.47	
305	-4.11																	305	-4.32	
310	-5.09																	310	-5.34	
315	-6.27																	315	-6.57	
320	-7.7																	320	-8.08	
325	-9.51																	325	-9.99	
330	-11.88																	330	-12.54	
335	-15.24																	335	-16.26	
340	-20.92																	340	-23.04	
345	-40.34																	345	-37.46	
350	-22.2																	350	-20.25	
355	-15.87																			

2520 Theta Ang	0		20		40		60		80		100		120		140		160		180	
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)
0	-12.74	0	-8.21	0	-3.49	0	-1.96	0	-1.89	0	-1.49	0	-2.62	0	-4.68	0	-10.65	0	-11.74	
5	-10.18	0	-8.21	0.05	-3.51	0	-1.96	0.05	-1.87	0	-1.49	0	-2.62	0.05	-4.69	0	-10.65	0	-9.49	
10	-8.26	1.65	-8.18	3.4	-3.5	2.5	-1.96	2.9	-1.92	0.8	-1.48	1.6	-2.65	2.55	-4.66	0.15	-10.65	10	-7.75	
15	-6.75	7.4	-7.01	10.85	-3.31	10.3	-2.41	9.95	-2.57	6.15	-1.88	7.6	-2.95	9.4	-4.19	4.3	-10.72	15	-6.36	
20	-5.51	15.05	-5.31	18.35	-3.17	17.8	-3.11	18.1	-3.19	14.55	-3.43	15.25	-4.02	17.05	-3.82	11.65	-11.5	20	-5.23	
25	-4.49	22.5	-3.79	26.2	-2.91	25.35	-3.59	25.3	-3.18	22.65	-5.02	22.7	-5.1	24	-3.55	19.75	-12.79	25	-4.28	
30	-3.64	30.05	-2.58	33.95	-2.5	32.45	-3.58	32.95	-2.56	30.7	-5.53	30.2	-6.06	32	-3.29	27.2	-13.88	30	-3.48	
35	-2.92	38.05	-1.57	41.5	-2	40.25	-3.14	41	-1.73	38.4	-6.67	38.2	-6.15	39.2	-3.03	34.7	-13.65	35	-2.82	
40	-2.32	45.6	-0.71	49	-1.48	48.35	-2.35	48.25	-1.02	46.5	-7.28	45.8	-5.28	46.9	-2.71	42.2	-12.04	40	-2.26	
45	-1.82	53.1	-0.13	56.45	-0.96	55.85	-1.69	55.85	-0.5	54.85	-7.9	53	-4.07	54.85	-2.38	49.7	-10.16	45	-1.8	
50	-1.41	61.35	0.4	63.9	-0.55	63.3	-1.26	63.8	-0.17	62.35	-8.58	60.45	-3.06	62.3	-2.06	57.15	-8.53	50	-1.42	
55	-1.08	69.8	0.72	71.4	-0.18	70.8	-0.9	71.3	0	70.4	-9.28	68.65	-2.21	69.55	-1.85	65.1	-7.36	55	-1.13	
60	-0.83	77.95	0.84	79.4	0.08	78.1	-0.77	78.9	0.05	78.05	-9.99	76.25	-1.68	77.6	-1.74	72.2	-6.64	60	-0.9	
65	-0.65	85.5	0.83	86.6	0.23	86.55	-0.76	86.1	0	85.6	-10.72	83.75	-1.37	85.1	-1.75	79.5	-6.32	65	-0.75	
70	-0.54	92.7	0.63	94.5	0.28	94.4	-0.85	94.05	-0.16	93.15	-11.46	91.25	-1.3	92.55	-1.97	87.75	-6.38	70	-0.67	
75	-0.49	100.25	0.36	102.1	0.22	103.55	-1.06	101.75	-0.42	100.85	-12.22	98.7	-1.39	100.2	-2.33	95.35	-6.83	75	-0.65	
80	-0.52	108.25	-0.1	109.25	0.04	111.1	-1.32	108.95	-0.84	108.35	-13.06	106.7	-1.77	107.85	-2.88	102.9	-7.67	80	-0.7	
85	-0.6	115.6	-0.72	117.4	-0.29	118.75	-1.67	116.6	-1.36	116.05	-13.91	114.2	-2.33	114.85	-3.66	110.95	-8.96	85	-0.82	
90	-0.76	123.75	-1.47	125.3	-0.88	126.3	-2.17	124.25	-2.11	124	-14.75	122.2	-3.28	122.4	-4.66	118.5	-10.59	90	-1	
95	-0.99	130.95	-2.38	132.9	-1.64	133.85	-2.9	132.3	-3.14	131.95	-15.72	130.4	-4.59	129.9	-5.82	126	-12.44	95	-1.26	
100	-1.29	138.95	-3.55	140.45	-2.72	141.25	-3.78	140.35	-4.42	139.55	-16.76	138.05	-6.21	138.1	-6.93	133.35	-13.91	100	-1.59	
105	-1.67	146.1	-4.82	148.65	-3.97	148.75	-4.74	147.9	-5.76	147.1	-17.8	145.75	-7.99	145.75	-7.51	141.05	-13.96	105	-2.01	
110	-2.14	154.1	-6.27	156.2	-5.16	156.15	-5.46	155.45	-6.21	154.6	-18.88	153.2	-8.62	153.25	-7.25	148.65	-12.8	110	-2.51	
115	-2.7	162.35	-7.7	163.15	-5.87	163.3	-5.69	163	-5.48	162.05	-19.94	161.85	-7.36	161.2	-6.45	156.25	-11.42	115	-3.12	
120	-3.37	169.8	-8.61	171.8	-6.01	170.95	-5.24	170.6	-4.09	169.5	-21.08	168.9	-5.62	168.8	-5.61	163.75	-10.37	120	-3.85	
125	-4.18	177.85	-8.8	179	-5.57	179.1	-4.57	178.2	-2.98	177.75	-22.26	176.9	-4.17	176.3	-5.12	171.3	-9.88	125	-4.71	
130	-5.14	185.35	-8.33	186.5	-5.17	186.6	-4.24	185.4	-2.43	185.45	-23.45	185.5	-3.42	183.8	-4.99	179.05	-9.95	130	-5.74	
135	-6.29	192.85	-7.45	194	-5.16	194.1	-4.42	193.4	-2.7	193.85	-24.7	192.7	-3.42	191.3	-5.19	186.55	-10.74	135	-6.99	
140	-7.7	200.35	-6.4	202.05	-5.56	202.05	-5.18	201.1	-4.01	201.05	-25.97	200.15	-4.18	198.6	-5.64	194.2	-12.33	140	-8.53	
145	-9.46	208.3	-5.41	209.25	-6.36	209.2	-6.51	208.6	-6.43	209.7	-27.23	208.05	-5.89	206.35	-6.01	201.65	-14.8	145	-10.48	
150	-11.75	215.85	-4.5	216.8	-7.02	216.95	-7.79	216.1	-10.02	216.7	-28.57	215.6	-8.05	214.35	-5.47	209.15	-16.97	150	-13.1	
155	-14.98	223.85	-3.55	224.35	-6.75	224.45	-7.86	223.7	-11.42	224.2	-29.87	223.6	-9.13	222.6	-6.42	216.75	-15.18	155	-16.95	
160	-20.3	231.55	-2.76	232.3	-5.36	231.8	-6.23	231.35	-8	232.5	-31.16	231.55	-7.1	229.9	-2.79	224.75	-11.55	160	-24.21	
165	-36.85	238.65	-2.12	239.95	-3.7	239.95	-4.15	239.4	-4.78	240.05	-32.46	239.05	-4.42	237.5	-1.38	232.2	-8.64	165	-34.27	
170	-23.35	246.2	-1.62	247.6	-2.19	247.2	-2.48	246.95	-2.84	247.55	-33.74	247	-2.48	245	-0.23	240.6	-6.39	170	-19.99	
175	-16.49	254.6	-1.29	254.7	-1.21	255.25	-1.28	254.55	-1.71	255.1	-35.09	254.4	-1.13	253	0.58	248.1	-5	175	-14.89	
180	-12.74	262.1	-1.17	262.2	-0.64	263.05	-0.68	262.05	-1.2	263.25	-36.4	262.6	-0.49	260	1.05	255.6	-4.15	180	-11.74	
185	-10.18	269.55	-1.28	270.15	-0.54	270.6	-0.52	269.4	-1.23	270.25	-37.7	269.75	-0.38	267.95	1.21	263.1	-3.72	185	-9.49	
190	-8.26	277.1	-1.61	277.65	-0.92	278.1	-0.89	277.45	-1.77	277.7	-39.06	277.95	-0.74	276.4	1.09	270.65	-3.75	190	-7.75	
195	-6.75	284.65	-2.29	285.2	-1.85	285.7	-1.86	285	-2.79	285.2	-40.36	286.1	-1.57	283.4	0.59	278.7	-4.15	195	-6.36	
200	-5.51	292.2	-3.25	292.8	-3.41	293.55	-3.61	292.55	-4.29	293.25	-41.66	293.6	-2.87	292	-0.4	286.35	-5.04	200	-5.23	
205	-4.49	300.15	-4.58	300.35	-5.81	300.85	-6.17	300.15	-6.3	300.85	-42.96	301.1	-4.64	300.75	-2.01	293.9	-6.35	205	-4.28	
210	-3.64	308.1	-6.49	307.95	-9.21	308.95	-9.89	307.15	-7.8	308.5	-44.26	308.65	-6.64	307.9	-3.83	301.4	-8.32	210	-3.48	
215	-2.92	315.5	-8.98	315.45	-13.59	316.55	-11.44	315.1	-7.25	316.65	-45.56	316.25	-7.85	315.45	-6.4	308.85	-11.09	215	-2.82	
220	-2.32	323.2	-12.08	323.45	-13.06	324.2	-8.42	322.45	-5.31	323.6	-46.86	323.4	-7.22	322.9	-9.4	316.15	-14.79	220	-2.26	
225	-1.82	331.35	-16.07	330.95	-9.23	331.7	-5.41	330.85	-3.24	331.15	-48.16	331.55	-5.47	331.25	-11.12	324.35	-17.28	225	-1.8	
230	-1.41	338.95	-17.24	338.5	-6.54	339.2	-3.35	338.35	-1.99	338.75	-49.46	339.15	-3.91	339.35	-9.55	331.8	-15.57	230	-1.42	
235	-1.08	346.55	-14.28	346.35	-4.9	346.75	-2.29	345.9	-1.38	345.7	-50.76	346.3	-2.9	346.95	-7.46	339.5	-13	235	-1.13	
240	-0.83	352.75	-11.05	353.05	-4	353.05	-1.82	353	-1.32	353	-52.06	353.2	-2.5	352.9	-5.81	346.65	-11.44	240	-0.9	
245	-0.65	355	-10.8	355	-3.95	355	-1.8	355	-1.33	355	-53.36	355	-2.46	355	-5.79	352.95	-10.63	245	-0.75	
250	-0.54	360	-8.21	360	-3.49	360	-1.96	360	-1.89	360	-54.66	360	-2.62	360	-4.68	355	-10.62	250	-0.67	
255	-0.49															360	-10.65	255	-0.65	
260	-0.52																	260	-0.7	
265	-0.6																	265	-0.82	
270	-0.76																	270	-1	
275	-0.99																	275	-1.26	
280	-1.29																	280	-1.59	
285	-1.67																	285	-2.01	
290	-2.14																	290	-2.51	
295	-2.7																	295	-3.12	
300	-3.37																	300	-3.85	
305	-4.18																	305	-4.71	
310	-5.14																	310	-5.74	
315	-6.29																	315	-6.99	
320	-7.7																	320	-8.53	
325	-9.46																	325	-10.48	
330	-11.75																	330	-13.1	
335	-14.98																	335	-16.95	
340	-20.3																	340	-24.21	
345	-36.85																	345	-34.27	
350	-23.35																	350	-19.99	
355	-16.49																			

2530 Theta Ang	0		20		40		60		80		100		120		140		160		180	
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)
0	-12.99	0	-7.9	0	-3.29	0	-1.75	0	-1.6	0	-1.39	0	-2.62	0	-4.67	0	-10.95	0	-11.54	
5	-10.38	0	-7.9	0.05	-3.29	0	-1.75	0.05	-1.59	0	-1.39	0	-2.62	0.05	-4.72	0	-10.95	5	-9.38	
10	-8.43	1.65	-7.88	3.4	-3.29	2.5	-1.72	2.9	-1.59	0.8	-1.42	1.6	-2.61	2.55	-4.65	0.15	-10.96	10	-7.7	
15	-6.9	7.4	-6.8	10.85	-3.09	10.3	-2.22	9.95	-2.33	6.15	-1.84	7.6	-3.03	9.4	-4.24	4.3	-11.02	15	-6.35	
20	-5.65	15.05	-5.05	18.35	-3	17.8	-3.03	18.1	-3.08	14.55	-3.6	15.25	-4.16	17.05	-3.8	11.65	-11.92	20	-5.24	
25	-4.61	22.5	-3.68	26.2	-2.84	25.35	-3.66	25.3	-3.2	22.65	-5.23	22.7	-5.37	24	-3.47	19.75	-13.26	25	-4.32	
30	-3.75	30.05	-2.47	33.95	-2.54	32.45	-3.75	32.95	-2.56	30.7	-5.63	30.2	-6.17	32	-3.17	27.2	-14.09	30	-3.55	
35	-3.03	38.05	-1.51	41.5	-2.07	40.25	-3.29	41	-1.63	38.4	-4.48	38.2	-5.98	39.2	-2.74	34.7	-13.28	35	-2.9	
40	-2.42	45.6	-0.72	49	-1.53	48.35	-2.41	48.25	-0.89	46.5	-2.84	45.8	-4.94	46.9	-2.36	42.2	-11.31	40	-2.35	
45	-1.91	53.1	-0.1	56.45	-1.05	55.85	-1.63	55.85	-0.27	54.85	-1.5	53	-3.72	54.85	-1.94	49.7	-9.36	45	-1.9	
50	-1.5	61.35	0.38	63.9	-0.54	63.3	-1.07	63.8	0.09	62.35	-0.53	60.45	-2.67	62.3	-1.6	57.15	-7.75	50	-1.54	
55	-1.17	69.8	0.69	71.4	-0.15	70.8	-0.68	71.3	0.26	70.4	0.07	68.65	-1.84	69.55	-1.35	65.1	-6.61	55	-1.26	
60	-0.91	77.95	0.82	79.4	0.17	78.1	-0.49	78.9	0.35	78.05	0.45	76.25	-1.33	77.6	-1.25	72.2	-5.92	60	-1.04	
65	-0.73	85.5	0.81	86.6	0.34	86.55	-0.47	86.1	0.28	85.6	0.52	83.75	-1.02	85.1	-1.25	79.5	-5.6	65	-0.9	
70	-0.61	92.7	0.66	94.5	0.42	94.4	-0.59	94.05	0.15	93.15	0.43	91.25	-0.97	92.55	-1.42	87.75	-5.67	70	-0.83	
75	-0.56	100.25	0.39	102.1	0.4	103.55	-0.73	101.75	-0.09	100.85	0.13	98.7	-1.08	100.2	-1.79	95.35	-6.09	75	-0.82	
80	-0.58	108.25	-0.01	109.25	0.21	111.1	-1.02	108.95	-0.44	108.35	-0.37	106.7	-1.4	107.85	-2.36	102.9	-6.91	80	-0.88	
85	-0.66	115.6	-0.63	117.4	-0.12	118.75	-1.37	116.6	-0.95	116.05	-1.15	114.2	-1.91	114.85	-3.12	110.95	-8.16	85	-1.01	
90	-0.82	123.75	-1.34	125.3	-0.63	126.3	-1.88	124.25	-1.7	124	-2.22	122.2	-2.79	122.4	-4.13	118.5	-9.77	90	-1.2	
95	-1.04	130.95	-2.25	132.9	-1.38	133.85	-2.57	132.3	-2.77	131.95	-3.64	130.4	-4.01	129.9	-5.33	126.2	-11.64	95	-1.47	
100	-1.33	138.95	-3.27	140.45	-2.36	141.25	-3.48	140.35	-4.12	139.55	-5.64	138.05	-5.65	138.1	-6.53	133.35	-13.32	100	-1.81	
105	-1.71	146.1	-4.53	148.65	-3.66	148.75	-4.53	147.9	-5.65	147.1	-7.85	145.75	-7.58	145.75	-7.41	141.05	-13.74	105	-2.24	
110	-2.17	154.1	-5.99	156.2	-4.82	156.15	-5.31	155.45	-6.32	154.6	-8.96	153.2	-8.65	153.25	-7.41	148.65	-12.79	110	-2.76	
115	-2.73	162.35	-7.5	163.15	-5.55	163.3	-5.41	163	-5.56	162.05	-7.47	161.85	-7.71	161.2	-6.64	156.25	-11.47	115	-3.38	
120	-3.4	169.8	-8.57	171.8	-5.77	170.95	-5	170.6	-4.03	169.5	-5.12	168.9	-5.89	168.8	-5.77	163.75	-10.38	120	-4.13	
125	-4.19	177.85	-8.93	179	-5.45	179.1	-4.35	178.2	-2.75	177.75	-3.18	176.9	-4.19	176.3	-5.18	171.3	-9.84	125	-5.01	
130	-5.14	185.35	-8.55	186.5	-5.09	186.6	-4.03	185.4	-2.12	185.45	-2.25	185.5	-3.28	183.8	-4.85	179.05	-9.83	130	-6.07	
135	-6.28	192.85	-7.64	194	-5.05	194.1	-4.27	193.4	-2.32	193.85	-2.41	192.7	-3.17	191.3	-5.01	186.55	-10.53	135	-7.36	
140	-7.67	200.35	-6.52	202.05	-5.45	202.05	-5.05	201.1	-3.52	201.05	-3.55	200.15	-3.85	198.6	-5.34	194.2	-12.01	140	-8.95	
145	-9.41	208.3	-5.41	209.25	-6.11	209.2	-6.36	208.6	-5.89	209.7	-6.33	208.05	-5.41	206.35	-5.62	201.65	-14.35	145	-10.97	
150	-11.66	215.85	-4.39	216.8	-6.65	216.95	-7.66	216.1	-9.51	216.7	-10.79	215.6	-7.63	214.35	-5.23	209.15	-16.62	150	-13.72	
155	-14.81	223.85	-3.37	224.35	-6.33	224.45	-7.68	223.7	-11.35	224.2	-13.17	223.6	-9.09	222.6	-4.16	216.75	-15.32	155	-17.85	
160	-19.93	231.55	-2.59	232.3	-4.99	231.8	-5.99	231.35	-7.97	232.5	-7.8	231.55	-7.35	229.9	-2.71	224.75	-11.72	160	-26.18	
165	-34.34	238.65	-1.91	239.95	-3.36	239.95	-3.92	239.4	-4.66	240.05	-4.22	239.05	-4.48	237.5	-1.38	232.2	-8.76	165	-30.36	
170	-24.07	246.2	-1.39	247.6	-1.99	247.2	-2.24	246.95	-2.63	247.55	-2.03	247	-2.48	245	-0.22	240.6	-6.49	170	-19.21	
175	-16.84	254.6	-1.03	254.7	-0.94	255.25	-1.02	254.55	-1.42	255.1	-0.88	254.4	-1.07	253	0.61	248.1	-5.06	175	-14.52	
180	-12.99	262.1	-0.92	262.2	-0.4	263.05	-0.37	262.05	-0.87	263.25	-0.28	262.6	-0.38	260	1.13	255.6	-4.17	180	-11.54	
185	-10.38	269.55	-1.01	270.15	-0.31	270.6	-0.21	269.4	-0.84	270.25	-0.32	269.75	-0.24	267.95	1.34	263.1	-3.77	185	-9.38	
190	-8.43	277.1	-1.37	277.65	-0.66	278.1	-0.57	277.45	-1.34	277.7	-0.83	277.95	-0.58	276.4	1.17	270.65	-3.69	190	-7.7	
195	-6.9	284.65	-2	285.2	-1.6	285.7	-1.49	285	-2.3	285.2	-1.93	286.1	-1.49	283.4	0.71	278.7	-4.11	195	-6.35	
200	-5.65	292.2	-2.96	292.8	-3.16	293.55	-3.24	292.55	-3.83	293.25	-3.73	293.6	-2.85	292	-0.3	286.35	-4.97	200	-5.24	
205	-4.61	300.15	-4.3	300.35	-5.49	300.85	-5.77	300.15	-5.86	300.85	-5.95	301.1	-4.71	300.75	-1.88	293.9	-6.29	205	-4.32	
210	-3.75	308.1	-6.14	307.95	-8.81	308.95	-9.64	307.15	-7.64	308.5	-7.84	308.65	-6.81	307.9	-3.73	301.4	-8.25	210	-3.55	
215	-3.03	315.5	-8.59	315.45	-13.21	316.55	-11.72	315.1	-7.42	315.65	-7.25	316.25	-8.01	315.45	-6.31	308.85	-10.97	215	-2.9	
220	-2.42	323.2	-11.72	323.45	-13.11	324.2	-8.61	322.45	-5.43	323.6	-4.8	323.4	-7.24	322.9	-9.18	316.15	-14.46	220	-2.35	
225	-1.91	331.35	-15.9	330.95	-9.23	331.7	-5.38	330.85	-3.21	331.15	-2.78	331.55	-5.22	331.25	-10.76	324.35	-16.6	225	-1.9	
230	-1.5	338.95	-17.42	338.5	-6.49	339.2	-3.25	338.35	-1.83	338.75	-1.33	339.15	-3.66	339.35	-9.31	331.8	-15.1	230	-1.54	
235	-1.17	346.55	-14.29	346.35	-4.77	346.75	-2.12	345.9	-1.16	345.7	-0.69	346.3	-2.71	346.95	-7.36	339.5	-12.84	235	-1.26	
240	-0.91	352.75	-10.89	353.05	-3.81	353.05	-1.62	353	-1.04	353	-0.64	353.2	-2.32	352.9	-5.81	346.65	-11.44	240	-1.04	
245	-0.73	355	-10.51	355	-3.79	355	-1.61	355	-1.03	355	-0.67	355	-2.34	355	-5.72	352.95	-10.79	245	-0.9	
250	-0.61	360	-7.9	360	-3.29	360	-1.75	360	-1.6	360	-1.39	360	-2.62	360	-4.67	355	-10.76	250	-0.83	
255	-0.56															360	-10.95	255	-0.82	
260	-0.58																	260	-0.88	
265	-0.66																	265	-1.01	
270	-0.82																	270	-1.2	
275	-1.04																	275	-1.47	
280	-1.33																	280	-1.81	
285	-1.71																	285	-2.24	
290	-2.17																	290	-2.76	
295	-2.73																	295	-3.38	
300	-3.4																	300	-4.13	
305	-4.19																	305	-5.01	
310	-5.14																	310	-6.07	
315	-6.28																	315	-7.36	
320	-7.67																	320	-8.95	
325	-9.41																	325	-10.97	
330	-11.66																	330	-13.72	
335	-14.81																	335	-17.85	
340	-19.93																	340	-26.18	
345	-34.34																	345	-30.36	
350	-24.07																	350	-19.21	
355	-16.84																			

2360 Theta Ang	0		20		40		60		80		100		120		140		160		180	
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)
0	-2.42	0	-2.53	0	-1.71	0	-1.95	0	-3.61	0	-2.56	0	-2.2	0	-0.14	0	-3.12	0	0.77	
5	-2.42	0	-2.53	0.05	-1.73	0	-1.95	0.05	-3.6	0	-2.56	0	-2.2	0.05	-0.14	0	-3.12	5	0.77	
10	-2.42	1.65	-2.51	3.4	-1.64	2.5	-2	2.9	-4.03	0.8	-2.59	1.6	-2.25	2.55	-0.15	0.15	-3.14	10	0.77	
15	-2.42	7.4	-2.33	10.85	-1.44	10.3	-2.06	9.95	-4.66	6.15	-2.78	7.6	-2.37	9.4	-0.11	4.3	-3.54	15	0.77	
20	-2.42	15.05	-2.23	18.35	-1.11	17.8	-1.98	18.1	-4.67	14.55	-2.72	15.25	-2.28	17.05	-0.09	11.65	-4.15	20	0.77	
25	-2.42	22.5	-2.08	26.2	-0.76	25.35	-1.64	25.3	-3.92	22.65	-2.38	22.7	-2.19	24	-0.07	19.75	-4.75	25	0.77	
30	-2.42	30.05	-1.97	33.95	-0.38	32.45	-1.24	32.95	-2.95	30.7	-2.09	30.2	-2.08	32	-0.11	27.2	-5.35	30	0.77	
35	-2.42	38.05	-1.84	41.5	-0.06	40.25	-0.75	41	-2.11	38.4	-2.03	38.2	-2.11	39.2	-0.18	34.7	-5.91	35	0.77	
40	-2.42	45.6	-1.69	49	0.19	48.35	-0.36	48.25	-1.57	46.5	-2.16	45.8	-2.26	46.9	-0.37	42.2	-6.49	40	0.77	
45	-2.42	53.1	-1.54	56.45	0.33	55.85	-0.13	55.85	-1.38	54.85	-2.58	53	-2.49	54.85	-0.62	49.7	-6.96	45	0.77	
50	-2.42	61.35	-1.39	63.9	0.34	63.3	-0.03	63.8	-1.4	62.35	-3.09	60.45	-2.8	62.3	-0.94	57.15	-7.44	50	0.77	
55	-2.42	69.8	-1.22	71.4	0.25	70.8	-0.08	71.3	-1.61	70.4	-3.73	68.65	-3.17	69.55	-1.33	65.1	-7.86	55	0.77	
60	-2.42	77.95	-1.08	79.4	0.06	78.1	-0.28	78.9	-1.97	78.05	-4.28	76.25	-3.54	77.6	-1.73	72.2	-8.25	60	0.77	
65	-2.42	85.5	-1.03	86.6	-0.18	86.55	-0.54	86.1	-2.36	85.6	-4.89	83.75	-3.88	85.1	-2.11	79.5	-8.57	65	0.77	
70	-2.42	92.7	-1	94.5	-0.52	94.4	-0.9	94.05	-2.77	93.15	-5.35	91.25	-4.19	92.55	-2.48	87.75	-8.88	70	0.77	
75	-2.42	100.25	-1.07	102.1	-0.93	103.55	-1.33	101.75	-3.24	100.85	-5.73	98.7	-4.54	100.2	-2.81	95.35	-9.08	75	0.77	
80	-2.42	108.25	-1.19	109.25	-1.34	111.1	-1.73	108.95	-3.59	108.35	-5.91	106.7	-4.71	107.85	-2.96	102.9	-9.13	80	0.77	
85	-2.42	115.6	-1.38	117.4	-1.75	118.75	-2.17	116.6	-3.85	116.05	-5.92	114.2	-4.82	114.85	-3.01	110.95	-9.04	85	0.77	
90	-2.42	123.75	-1.62	125.3	-2.19	126.3	-2.7	124.25	-4.13	124	-5.76	122.2	-4.78	122.4	-2.92	118.5	-8.8	90	0.77	
95	-2.42	130.95	-1.9	132.9	-2.7	133.85	-3.26	132.3	-4.36	131.95	-5.45	130.4	-4.64	129.9	-2.73	126	-8.4	95	0.77	
100	-2.42	138.95	-2.2	140.45	-3.07	141.25	-3.84	140.35	-4.6	139.55	-5.13	138.05	-4.39	138.1	-2.43	133.35	-8.03	100	0.77	
105	-2.42	146.1	-2.51	148.65	-3.42	148.75	-4.32	147.9	-4.77	147.1	-4.77	145.75	-4.1	145.75	-2.13	141.05	-7.65	105	0.77	
110	-2.42	154.1	-2.9	156.2	-3.61	156.15	-4.59	155.45	-4.87	154.6	-4.41	153.2	-3.74	153.25	-1.85	148.65	-7.25	110	0.77	
115	-2.42	162.35	-3.3	163.15	-3.77	163.3	-4.65	163	-4.84	162.05	-4.06	161.85	-3.38	161.2	-1.59	156.25	-6.9	115	0.77	
120	-2.42	169.8	-3.68	171.8	-3.87	170.95	-4.46	170.6	-4.82	169.5	-3.84	168.9	-3.18	168.8	-1.43	163.75	-6.59	120	0.77	
125	-2.42	177.85	-4.1	179	-3.99	179.1	-4.27	178.2	-4.98	177.75	-3.83	176.9	-3.05	176.3	-1.23	171.3	-6.41	125	0.77	
130	-2.42	185.35	-4.46	186.5	-4.1	186.6	-4.28	185.4	-5.53	185.45	-4.42	185.5	-3.11	183.8	-1.19	179.05	-6.17	130	0.77	
135	-2.42	192.85	-4.72	194	-4.29	194.1	-4.58	193.4	-6.81	193.85	-5.85	192.7	-3.46	191.3	-1.14	186.55	-6.12	135	0.77	
140	-2.42	200.35	-4.96	202.05	-4.41	202.05	-5.27	201.1	-8.85	201.05	-7.95	200.15	-4.11	198.6	-1.09	194.2	-6.02	140	0.77	
145	-2.42	208.3	-5.04	209.25	-4.38	209.2	-6.04	208.6	-11.15	209.7	-10.5	208.05	-5.03	206.35	-1.01	201.65	-5.94	145	0.77	
150	-2.42	215.85	-4.96	216.8	-4.1	216.95	-6.57	216.1	-11.16	216.7	-10.01	215.6	-5.84	214.35	-0.95	209.15	-5.85	150	0.77	
155	-2.42	223.85	-4.78	224.35	-3.59	224.45	-6.28	223.7	-8.54	224.2	-7.1	223.6	-6.16	222.6	-0.8	216.75	-5.76	155	0.77	
160	-2.42	231.55	-4.49	232.3	-2.93	231.8	-5.22	231.35	-5.85	232.5	-4.34	231.55	-5.65	229.9	-0.66	224.75	-5.61	160	0.77	
165	-2.42	238.65	-4.22	239.95	-2.26	239.95	-3.94	239.4	-3.91	240.05	-2.59	239.05	-4.68	237.5	-0.5	232.2	-5.32	165	0.77	
170	-2.42	246.2	-3.91	247.6	-1.71	247.2	-2.87	246.95	-2.62	247.55	-1.47	247	-3.82	245	-0.37	240.6	-4.93	170	0.77	
175	-2.42	254.6	-3.62	254.7	-1.28	255.25	-2.12	254.55	-1.92	255.1	-0.94	254.4	-3.16	253	-0.24	248.1	-4.47	175	0.77	
180	-2.42	262.1	-3.4	262.2	-1.02	263.05	-1.78	262.05	-1.73	263.25	-0.87	262.6	-2.85	260	-0.15	255.6	-3.95	180	0.77	
185	-2.42	269.55	-3.28	270.15	-0.98	270.6	-1.79	269.4	-2.03	270.25	-1.26	269.75	-2.77	267.95	-0.05	263.1	-3.44	185	0.77	
190	-2.42	277.1	-3.2	277.65	-1.02	278.1	-2.18	277.45	-2.96	277.7	-2.06	277.95	-2.92	276.4	0.03	270.65	-2.97	190	0.77	
195	-2.42	284.65	-3.13	285.2	-1.18	285.7	-2.82	285	-4.49	285.2	-3.29	286.1	-3	283.4	0.1	278.7	-2.48	195	0.77	
200	-2.42	292.2	-3.17	292.8	-1.48	293.55	-3.74	292.55	-6.89	293.25	-4.87	293.6	-2.94	292	0.16	286.35	-2.19	200	0.77	
205	-2.42	300.15	-3.18	300.35	-1.69	300.85	-4.47	300.15	-10.32	300.85	-6.17	301.1	-2.65	300.75	0.21	293.9	-1.86	205	0.77	
210	-2.42	308.1	-3.21	307.95	-1.89	308.95	-4.74	307.15	-12.45	308.5	-6.39	308.65	-2.22	307.9	0.2	301.4	-1.66	210	0.77	
215	-2.42	315.5	-3.25	315.45	-1.96	316.55	-4.31	315.1	-9.62	315.65	-5.39	316.25	-1.75	315.45	0.2	308.85	-1.57	215	0.77	
220	-2.42	323.2	-3.23	323.45	-1.98	324.2	-3.54	322.45	-6.51	323.6	-4.04	323.4	-1.45	322.9	0.14	316.15	-1.56	220	0.77	
225	-2.42	331.35	-3.13	330.95	-1.92	331.7	-2.78	330.85	-4.28	331.15	-3.03	331.55	-1.39	331.25	0.02	324.35	-1.62	225	0.77	
230	-2.42	338.95	-2.98	338.5	-1.84	339.2	-2.19	338.35	-3.26	338.75	-2.44	339.15	-1.47	339.35	-0.05	331.8	-1.81	230	0.77	
235	-2.42	346.55	-2.82	346.35	-1.81	346.75	-1.95	345.9	-2.98	345.7	-2.34	346.3	-1.77	346.95	-0.14	339.5	-2.05	235	0.77	
240	-2.42	352.75	-2.72	353.05	-1.77	353.05	-1.88	353	-3.06	353	-2.38	353.2	-1.87	352.9	-0.13	346.65	-2.41	240	0.77	
245	-2.42	355	-2.72	355	-1.77	355	-1.87	355	-3.08	355	-2.37	355	-1.89	355	-0.14	352.95	-2.58	245	0.77	
250	-2.42	360	-2.53	360	-1.71	360	-1.95	360	-3.61	360	-2.56	360	-2.2	360	-0.14	355	-2.57	250	0.77	
255	-2.42															360	-3.12	255	0.77	
260	-2.42																	260	0.77	
265	-2.42																	265	0.77	
270	-2.42																	270	0.77	
275	-2.42																	275	0.77	
280	-2.42																	280	0.77	
285	-2.42																	285	0.77	
290	-2.42																	290	0.77	
295	-2.42																	295	0.77	
300	-2.42																	300	0.77	
305	-2.42																	305	0.77	
310	-2.42																	310	0.77	
315	-2.42																	315	0.77	
320	-2.42																	320	0.77	
325	-2.42																	325	0.77	
330	-2.42																	330	0.77	
335	-2.42																	335	0.77	
340	-2.42																	340	0.77	
345	-2.42																	345	0.77	
350	-2.42																	350	0.77	
355	-2.42																	355	0.77	
360	-2.42																	360	0.77	

2370 Theta Ang	0		20		40		60		80		100		120		140		160		180		
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)	
0	-2.46	0	-2.65	0	-1.95	0	-2.05	0	-3.69	0	-2.58	0	-2.28	0	-0.36	0	-3.35	0	0	0.42	
5	-2.46	0	-2.65	0.05	-1.92	0	-2.05	0.05	-3.69	0	-2.58	0	-2.28	0.05	-0.38	0	-3.35	0	-3.35	5	0.42
10	-2.46	1.65	-2.59	3.4	-1.88	2.5	-2.12	2.9	-4.08	0.8	-2.6	1.6	-2.33	2.55	-0.37	0.15	-3.39	10	-3.39	10	0.42
15	-2.46	7.4	-2.46	10.85	-1.63	10.3	-2.21	9.95	-4.7	6.15	-2.82	7.6	-2.48	9.4	-0.38	4.3	-3.82	15	-3.82	15	0.42
20	-2.46	15.05	-2.35	18.35	-1.34	17.8	-2.12	18.1	-4.72	14.55	-2.86	15.25	-2.5	17.05	-0.44	11.65	-4.44	20	-4.44	20	0.42
25	-2.46	22.5	-2.24	26.2	-0.95	25.35	-1.81	25.3	-4.05	22.65	-2.64	22.7	-2.48	24	-0.43	19.75	-5.11	25	-5.11	25	0.42
30	-2.46	30.05	-2.1	33.95	-0.58	32.45	-1.41	32.95	-3.17	30.7	-2.56	30.2	-2.48	32	-0.5	27.2	-5.79	30	-5.79	30	0.42
35	-2.46	38.05	-1.96	41.5	-0.28	40.25	-0.99	41	-2.35	38.4	-2.51	38.2	-2.58	39.2	-0.63	34.7	-6.41	35	-6.41	35	0.42
40	-2.46	45.6	-1.83	49	-0.03	48.35	-0.61	48.25	-1.8	46.5	-2.75	45.8	-2.74	46.9	-0.84	42.2	-7	40	-7	40	0.42
45	-2.46	53.1	-1.67	56.45	0.11	55.85	-0.37	55.85	-1.64	54.85	-3.16	53	-3.07	54.85	-1.08	49.7	-7.54	45	-7.54	45	0.42
50	-2.46	61.35	-1.45	63.9	0.11	63.3	-0.3	63.8	-1.69	62.35	-3.62	60.45	-3.39	62.3	-1.45	57.15	-8.01	50	-8.01	50	0.42
55	-2.46	69.8	-1.26	71.4	0.01	70.8	-0.37	71.3	-1.88	70.4	-4.25	68.65	-3.73	69.55	-1.85	65.1	-8.42	55	-8.42	55	0.42
60	-2.46	77.95	-1.15	79.4	-0.19	78.1	-0.55	78.9	-2.17	78.05	-4.75	76.25	-4.08	77.6	-2.31	72.2	-8.79	60	-8.79	60	0.42
65	-2.46	85.5	-1.1	86.6	-0.44	86.55	-0.8	86.1	-2.58	85.6	-5.32	83.75	-4.47	85.1	-2.73	79.5	-9.21	65	-9.21	65	0.42
70	-2.46	92.7	-1.09	94.5	-0.76	94.4	-1.16	94.05	-3	93.15	-5.79	91.25	-4.79	92.55	-3.12	87.75	-9.53	70	-9.53	70	0.42
75	-2.46	100.25	-1.14	102.1	-1.17	103.55	-1.61	101.75	-3.53	100.85	-6.28	98.7	-5.13	100.2	-3.44	95.35	-9.77	75	-9.77	75	0.42
80	-2.46	108.25	-1.27	109.25	-1.58	111.1	-2	108.95	-3.92	108.35	-6.52	106.7	-5.38	107.85	-3.61	102.9	-9.86	80	-9.86	80	0.42
85	-2.46	115.6	-1.47	117.4	-2	118.75	-2.43	116.6	-4.28	116.05	-6.66	114.2	-5.56	114.85	-3.71	110.95	-9.77	85	-9.77	85	0.42
90	-2.46	123.75	-1.7	125.3	-2.53	126.3	-2.89	124.25	-4.53	124	-6.52	122.2	-5.55	122.4	-3.61	118.5	-9.48	90	-9.48	90	0.42
95	-2.46	130.95	-1.98	132.9	-2.97	133.85	-3.48	132.3	-4.81	131.95	-6.26	130.4	-5.33	129.9	-3.35	126	-9.07	95	-9.07	95	0.42
100	-2.46	138.95	-2.29	140.45	-3.4	141.25	-4.02	140.35	-4.97	139.55	-5.86	138.05	-5.05	138.1	-2.99	133.35	-8.6	100	-8.6	100	0.42
105	-2.46	146.1	-2.63	148.65	-3.72	148.75	-4.52	147.9	-5.1	147.1	-5.42	145.75	-4.64	145.75	-2.65	141.05	-8.16	105	-8.16	105	0.42
110	-2.46	154.1	-3.04	156.2	-3.98	156.15	-4.78	155.45	-5.09	154.6	-4.94	153.2	-4.26	153.25	-2.3	148.65	-7.68	110	-7.68	110	0.42
115	-2.46	162.35	-3.41	163.15	-4.12	163.3	-4.82	163	-4.97	162.05	-4.39	161.85	-3.77	161.2	-1.97	156.25	-7.27	115	-7.27	115	0.42
120	-2.46	169.8	-3.78	171.8	-4.21	170.95	-4.67	170.6	-4.86	169.5	-4.08	168.9	-3.43	168.8	-1.71	163.75	-6.93	120	-6.93	120	0.42
125	-2.46	177.85	-4.14	179	-4.27	179.1	-4.49	178.2	-5.01	177.75	-3.98	176.9	-3.24	176.3	-1.53	171.05	-6.66	125	-6.66	125	0.42
130	-2.46	185.35	-4.5	186.5	-4.4	186.6	-4.45	185.4	-5.54	185.45	-4.47	185.5	-3.26	183.8	-1.42	179.05	-6.46	130	-6.46	130	0.42
135	-2.46	192.85	-4.77	194	-4.57	194.1	-4.75	193.4	-6.82	193.85	-5.86	192.7	-3.58	191.3	-1.33	186.55	-6.29	135	-6.29	135	0.42
140	-2.46	200.35	-5.03	202.05	-4.71	202.05	-5.34	201.1	-8.89	201.05	-8	200.15	-4.2	198.6	-1.26	194.2	-6.21	140	-6.21	140	0.42
145	-2.46	208.3	-5.19	209.25	-4.68	209.2	-6.15	208.6	-11.27	209.7	-10.68	208.05	-5.14	206.35	-1.23	201.65	-6.18	145	-6.18	145	0.42
150	-2.46	215.85	-5.15	216.8	-4.46	216.95	-6.73	216.1	-11.46	216.7	-10.49	215.6	-5.93	214.35	-1.13	209.15	-6.11	150	-6.11	150	0.42
155	-2.46	223.85	-5	224.35	-3.99	224.45	-6.53	223.7	-8.84	224.2	-7.55	223.6	-6.28	222.6	-1.01	216.75	-6	155	-6	155	0.42
160	-2.46	231.55	-4.79	232.3	-3.28	231.8	-5.54	231.35	-6.19	232.5	-4.69	231.55	-5.79	229.9	-0.88	224.75	-5.81	160	-5.81	160	0.42
165	-2.46	238.65	-4.49	239.95	-2.59	239.95	-4.28	239.4	-4.13	240.05	-2.87	239.05	-4.85	237.5	-0.71	232.2	-5.59	165	-5.59	165	0.42
170	-2.46	246.2	-4.17	247.6	-2.01	247.2	-3.23	246.95	-2.88	247.55	-1.76	247	-3.96	245	-0.56	240.6	-5.12	170	-5.12	170	0.42
175	-2.46	254.6	-3.85	254.7	-1.57	255.25	-2.45	254.55	-2.22	255.1	-1.2	254.4	-3.26	253	-0.4	248.1	-4.72	175	-4.72	175	0.42
180	-2.46	262.1	-3.63	262.2	-1.3	263.05	-2.1	262.05	-2.01	263.25	-1.1	262.6	-2.91	260	-0.26	255.6	-4.2	180	-4.2	180	0.42
185	-2.46	269.55	-3.48	270.15	-1.21	270.6	-2.13	269.4	-2.33	270.25	-1.46	269.75	-2.87	267.95	-0.17	263.1	-3.68	185	-3.68	185	0.42
190	-2.46	277.1	-3.43	277.65	-1.27	278.1	-2.49	277.45	-3.28	277.7	-2.26	277.95	-2.96	276.4	-0.11	270.65	-3.25	190	-3.25	190	0.42
195	-2.46	284.65	-3.37	285.2	-1.5	285.7	-3.16	285	-4.8	285.2	-3.49	286.1	-3.05	283.4	-0.03	278.7	-2.76	195	-2.76	195	0.42
200	-2.46	292.2	-3.38	292.8	-1.72	293.55	-4.08	292.55	-7.26	293.25	-5.07	293.6	-3	292	-0.01	286.35	-2.43	200	-2.43	200	0.42
205	-2.46	300.15	-3.41	300.35	-2	300.85	-4.8	300.15	-10.68	300.85	-6.43	301.1	-2.76	300.75	0.03	293.9	-2.15	205	-2.15	205	0.42
210	-2.46	308.1	-3.45	307.95	-2.21	308.95	-5.13	307.15	-12.64	308.5	-6.68	308.65	-2.39	307.9	0.02	301.4	-1.93	210	-1.93	210	0.42
215	-2.46	315.5	-3.42	315.45	-2.27	316.55	-4.7	315.1	-9.69	315.65	-5.7	316.25	-1.98	315.45	0	308.85	-1.84	215	-1.84	215	0.42
220	-2.46	323.2	-3.36	323.45	-2.27	324.2	-3.85	322.45	-6.59	323.6	-4.27	323.4	-1.65	322.9	-0.06	316.15	-1.79	220	-1.79	220	0.42
225	-2.46	331.35	-3.22	330.95	-2.22	331.7	-3.05	330.85	-4.42	331.15	-3.24	331.55	-1.53	331.25	-0.14	324.35	-1.85	225	-1.85	225	0.42
230	-2.46	338.95	-3.05	338.5	-2.12	339.2	-2.41	338.35	-3.37	338.75	-2.6	339.15	-1.61	339.35	-0.21	331.8	-2.02	230	-2.02	230	0.42
235	-2.46	346.55	-2.88	346.35	-2.06	346.75	-2.14	345.9	-3.1	345.7	-2.42	346.3	-1.86	346.95	-0.32	339.5	-2.27	235	-2.27	235	0.42
240	-2.46	352.75	-2.79	353.05	-2	353.05	-2.05	353	-3.14	353	-2.44	353.2	-1.94	352.9	-0.34	346.65	-2.65	240	-2.65	240	0.42
245	-2.46	355	-2.75	355	-2.03	355	-2.03	355	-3.2	355	-2.45	355	-1.97	355	-0.35	352.95	-2.81	245	-2.81	245	0.42
250	-2.46	360	-2.65	360	-1.95	360	-2.05	360	-3.69	360	-2.58	360	-2.28	360	-0.36	355	-2.78	250	-2.78	250	0.42
255	-2.46															360	-3.35	255	-3.35	255	0.42
260	-2.46																	260		260	0.42
265	-2.46																	265		265	0.42
270	-2.46																	270		270	0.42
275	-2.46																	275		275	0.42
280	-2.46																	280		280	0.42
285	-2.46																	285		285	0.42
290	-2.46																	290		290	0.42
295	-2.46																	295		295	0.42
300	-2.46																	300		300	0.42
305	-2.46																	305		305	0.42
310	-2.46																	310		310	0.42
315	-2.46																	315		315	0.42
320	-2.46																	320		320	0.42
325																					

2380 Theta Ang	0		20		40		60		80		100		120		140		160		180	
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)
0	-1.95	0	-2.13	0	-1.58	0	-1.62	0	-3.2	0	-2.07	0	-1.84	0	-0.08	0	-3.05	0	0.63	
5	-1.95	0	-2.13	0.05	-1.56	0	-1.62	0.05	-3.18	0	-2.07	0	-1.84	0.05	-0.06	0	-3.05	5	0.63	
10	-1.95	1.65	-2.11	3.4	-1.49	2.5	-1.62	2.9	-3.47	0.8	-2.08	1.6	-1.89	2.55	-0.08	0.15	-3.09	10	0.63	
15	-1.95	7.4	-2	10.85	-1.26	10.3	-1.71	9.95	-4.11	6.15	-2.33	7.6	-2.11	9.4	-0.17	4.3	-3.57	15	0.63	
20	-1.95	15.05	-1.91	18.35	-0.96	17.8	-1.64	18.1	-4.21	14.55	-2.46	15.25	-2.23	17.05	-0.25	11.65	-4.26	20	0.63	
25	-1.95	22.5	-1.77	26.2	-0.62	25.35	-1.42	25.3	-3.65	22.65	-2.48	22.7	-2.31	24	-0.32	19.75	-5.03	25	0.63	
30	-1.95	30.05	-1.68	33.95	-0.27	32.45	-1.06	32.95	-2.81	30.7	-2.4	30.2	-2.42	32	-0.42	27.2	-5.76	30	0.63	
35	-1.95	38.05	-1.53	41.5	0.05	40.25	-0.67	41	-2.05	38.4	-2.5	38.2	-2.56	39.2	-0.59	34.7	-6.51	35	0.63	
40	-1.95	45.6	-1.39	49	0.27	48.35	-0.32	48.25	-1.51	46.5	-2.74	45.8	-2.82	46.9	-0.83	42.2	-7.16	40	0.63	
45	-1.95	53.1	-1.24	56.45	0.38	55.85	-0.12	55.85	-1.34	54.85	-3.14	53	-3.07	54.85	-1.14	49.7	-7.74	45	0.63	
50	-1.95	61.35	-1.03	63.9	0.37	63.3	-0.03	63.8	-1.33	62.35	-3.57	60.45	-3.37	62.3	-1.51	57.15	-8.26	50	0.63	
55	-1.95	69.8	-0.87	71.4	0.3	70.8	-0.12	71.3	-1.5	70.4	-4.1	68.65	-3.72	69.55	-1.94	65.1	-8.73	55	0.63	
60	-1.95	77.95	-0.71	79.4	0.11	78.1	-0.28	78.9	-1.82	78.05	-4.59	76.25	-4.02	77.6	-2.37	72.2	-9.14	60	0.63	
65	-1.95	85.5	-0.66	86.6	-0.17	86.55	-0.54	86.1	-2.21	85.6	-5.04	83.75	-4.38	85.1	-2.88	79.5	-9.55	65	0.63	
70	-1.95	92.7	-0.67	94.5	-0.48	94.4	-0.91	94.05	-2.67	93.15	-5.53	91.25	-4.72	92.55	-3.31	87.75	-9.93	70	0.63	
75	-1.95	100.25	-0.67	102.1	-0.86	103.55	-1.33	101.75	-3.16	100.85	-6.08	98.7	-5.08	100.2	-3.66	95.35	-10.2	75	0.63	
80	-1.95	108.25	-0.78	109.25	-1.29	111.1	-1.75	108.95	-3.62	108.35	-6.49	106.7	-5.44	107.85	-3.81	102.9	-10.33	80	0.63	
85	-1.95	115.6	-0.98	117.4	-1.74	118.75	-2.18	116.6	-4.05	116.05	-6.72	114.2	-5.63	114.85	-3.86	110.95	-10.23	85	0.63	
90	-1.95	123.75	-1.21	125.3	-2.23	126.3	-2.61	124.25	-4.37	124	-6.74	122.2	-5.72	122.4	-3.8	118.5	-9.9	90	0.63	
95	-1.95	130.95	-1.46	132.9	-2.66	133.85	-3.18	132.3	-4.66	131.95	-6.52	130.4	-5.58	129.9	-3.5	126	-9.41	95	0.63	
100	-1.95	138.95	-1.79	140.45	-3.08	141.25	-3.69	140.35	-4.86	139.55	-6.11	138.05	-5.24	138.1	-3.12	133.35	-8.83	100	0.63	
105	-1.95	146.1	-2.13	148.65	-3.44	148.75	-4.11	147.9	-4.9	147.1	-5.55	145.75	-4.75	145.75	-2.65	141.05	-8.25	105	0.63	
110	-1.95	154.1	-2.52	156.2	-3.71	156.15	-4.38	155.45	-4.82	154.6	-4.9	153.2	-4.24	153.25	-2.26	148.65	-7.7	110	0.63	
115	-1.95	162.35	-2.9	163.15	-3.83	163.3	-4.4	163	-4.6	162.05	-4.26	161.85	-3.69	161.2	-1.83	156.25	-7.21	115	0.63	
120	-1.95	169.8	-3.25	171.8	-3.94	170.95	-4.29	170.6	-4.41	169.5	-3.81	168.9	-3.23	168.8	-1.56	163.75	-6.79	120	0.63	
125	-1.95	177.85	-3.63	179	-4.03	179.1	-4.12	178.2	-4.49	177.75	-3.62	176.9	-2.94	176.3	-1.31	171.3	-6.46	125	0.63	
130	-1.95	185.35	-3.96	186.5	-4.17	186.6	-4.07	185.4	-5.02	185.45	-4.02	185.5	-2.88	183.8	-1.15	179.05	-6.22	130	0.63	
135	-1.95	192.85	-4.3	194	-4.3	194.1	-4.36	193.4	-6.28	193.85	-5.3	192.7	-3.18	191.3	-1.02	186.55	-5.99	135	0.63	
140	-1.95	200.35	-4.49	202.05	-4.43	202.05	-4.94	201.1	-8.39	201.05	-7.41	200.15	-3.77	198.6	-0.92	194.2	-5.85	140	0.63	
145	-1.95	208.3	-4.7	209.25	-4.48	209.2	-5.71	208.6	-10.89	209.7	-10.28	208.05	-4.68	206.35	-0.88	201.65	-5.73	145	0.63	
150	-1.95	215.85	-4.7	216.8	-4.24	216.95	-6.23	216.1	-11.23	216.7	-10.41	215.6	-5.49	214.35	-0.78	209.15	-5.71	150	0.63	
155	-1.95	223.85	-4.61	224.35	-3.77	224.45	-6.1	223.7	-8.63	224.2	-7.45	223.6	-5.87	222.6	-0.64	216.75	-5.61	155	0.63	
160	-1.95	231.55	-4.42	232.3	-3.09	231.8	-5.25	231.35	-5.88	232.5	-4.51	231.55	-5.41	229.9	-0.5	224.75	-5.44	160	0.63	
165	-1.95	238.65	-4.17	239.95	-2.35	239.95	-3.99	239.4	-3.87	240.05	-2.61	239.05	-4.45	237.5	-0.36	232.2	-5.17	165	0.63	
170	-1.95	246.2	-3.9	247.6	-1.77	247.2	-3.03	246.95	-2.61	247.55	-1.48	247	-3.56	245	-0.18	240.6	-4.82	170	0.63	
175	-1.95	254.6	-3.57	254.7	-1.3	255.25	-2.23	254.55	-1.87	255.1	-0.88	254.4	-2.85	253	-0.03	248.1	-4.37	175	0.63	
180	-1.95	262.1	-3.32	262.2	-1.04	263.05	-1.85	262.05	-1.71	263.25	-0.78	262.6	-2.51	260	0.11	255.6	-3.86	180	0.63	
185	-1.95	269.55	-3.21	270.15	-0.92	270.6	-1.86	269.4	-2.02	270.25	-1.14	269.75	-2.44	267.95	0.2	263.1	-3.38	185	0.63	
190	-1.95	277.1	-3.08	277.65	-1.01	278.1	-2.22	277.45	-2.97	277.7	-1.91	277.95	-2.52	276.4	0.29	270.65	-2.96	190	0.63	
195	-1.95	284.65	-3.03	285.2	-1.2	285.7	-2.87	285	-4.53	285.2	-3.13	286.1	-2.6	283.4	0.33	278.7	-2.49	195	0.63	
200	-1.95	292.2	-3.04	292.8	-1.47	293.55	-3.82	292.55	-7.08	293.25	-4.76	293.6	-2.62	292	0.38	286.35	-2.17	200	0.63	
205	-1.95	300.15	-3.07	300.35	-1.75	300.85	-4.6	300.15	-10.38	300.85	-6.11	301.1	-2.41	300.75	0.38	293.9	-1.85	205	0.63	
210	-1.95	308.1	-3.07	307.95	-1.92	308.95	-4.88	307.15	-12.16	308.5	-6.38	308.65	-2.02	307.9	0.39	301.4	-1.63	210	0.63	
215	-1.95	315.5	-3.01	315.45	-2.04	316.55	-4.45	315.1	-9.2	315.65	-5.43	316.25	-1.62	315.45	0.33	308.85	-1.52	215	0.63	
220	-1.95	323.2	-2.89	323.45	-2.01	324.2	-3.59	322.45	-6.13	323.6	-3.99	323.4	-1.33	322.9	0.3	316.15	-1.45	220	0.63	
225	-1.95	331.35	-2.73	330.95	-1.91	331.7	-2.72	330.85	-3.97	331.15	-2.88	331.55	-1.14	331.25	0.22	324.35	-1.5	225	0.63	
230	-1.95	338.95	-2.54	338.5	-1.79	339.2	-2.05	338.35	-2.92	338.75	-2.16	339.15	-1.21	339.35	0.12	331.8	-1.64	230	0.63	
235	-1.95	346.55	-2.36	346.35	-1.71	346.75	-1.72	345.9	-2.63	345.7	-1.91	346.3	-1.41	346.95	0.02	339.5	-1.9	235	0.63	
240	-1.95	352.75	-2.28	353.05	-1.64	353.05	-1.61	353	-2.69	353	-1.91	353.2	-1.52	352.9	-0.02	346.65	-2.24	240	0.63	
245	-1.95	355	-2.24	355	-1.65	355	-1.64	355	-2.66	355	-1.94	355	-1.52	355	0	352.95	-2.46	245	0.63	
250	-1.95	360	-2.13	360	-1.58	360	-1.62	360	-3.2	360	-2.07	360	-1.84	360	-0.08	355	-2.46	250	0.63	
255	-1.95															360	-3.05	255	0.63	
260	-1.95																	260	0.63	
265	-1.95																	265	0.63	
270	-1.95																	270	0.63	
275	-1.95																	275	0.63	
280	-1.95																	280	0.63	
285	-1.95																	285	0.63	
290	-1.95																	290	0.63	
295	-1.95																	295	0.63	
300	-1.95																	300	0.63	
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315	-1.95																	315	0.63	
320	-1.95																	320	0.63	
325	-1.95																	325	0.63	
330	-1.95																	330	0.63	
335	-1.95																	335	0.63	
340	-1.95																	340	0.63	
345	-1.95																	345	0.63	
350	-1.95																	350	0.63	
355	-1.95																	355	0.63	
360	-1.95																	360	0.63	

2390 Theta Ang	0		20		40		60		80		100		120		140		160		180		
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)	
0	-1.64	0	-1.74	0	-1.3	0	-1.27	0	-2.81	0	-1.72	0	-1.63	0	-0.03	0	-3.06	0	0.66		
5	-1.64	0	-1.74	0.05	-1.3	0	-1.27	0.05	-2.83	0	-1.72	0	-1.63	0.05	-0.01	0	-3.06	0	0.66		
10	-1.64	1.65	-1.71	3.4	-1.21	2.5	-1.3	2.9	-3.12	0.8	-1.74	1.6	-1.67	2.55	-0.05	0.15	-3.08	10	0.66		
15	-1.64	7.4	-1.64	10.85	-0.98	10.3	-1.39	9.95	-3.73	6.15	-2	7.6	-1.98	9.4	-0.15	4.3	-3.53	15	0.66		
20	-1.64	15.05	-1.55	18.35	-0.71	17.8	-1.37	18.1	-3.93	14.55	-2.31	15.25	-2.15	17.05	-0.26	11.65	-4.33	20	0.66		
25	-1.64	22.5	-1.45	26.2	-0.37	25.35	-1.17	25.3	-3.43	22.65	-2.44	22.7	-2.31	24	-0.34	19.75	-5.19	25	0.66		
30	-1.64	30.05	-1.31	33.95	-0.08	32.45	-0.88	32.95	-2.62	30.7	-2.47	30.2	-2.48	32	-0.5	27.2	-6.08	30	0.66		
35	-1.64	38.05	-1.19	41.5	0.21	40.25	-0.56	41	-1.85	38.4	-2.58	38.2	-2.66	39.2	-0.7	34.7	-6.9	35	0.66		
40	-1.64	45.6	-1.06	49	0.38	48.35	-0.21	48.25	-1.34	46.5	-2.8	45.8	-2.91	46.9	-0.98	42.2	-7.61	40	0.66		
45	-1.64	53.1	-0.89	56.45	0.5	55.85	0	55.85	-1.1	54.85	-3.18	53	-3.17	54.85	-1.28	49.7	-8.24	45	0.66		
50	-1.64	61.35	-0.71	63.9	0.48	63.3	0.07	63.8	-1.06	62.35	-3.53	60.45	-3.47	62.3	-1.69	57.15	-8.78	50	0.66		
55	-1.64	69.8	-0.56	71.4	0.42	70.8	0.02	71.3	-1.23	70.4	-3.94	68.65	-3.79	69.55	-2.13	65.1	-9.26	55	0.66		
60	-1.64	77.95	-0.42	79.4	0.26	78.1	-0.14	78.9	-1.52	78.05	-4.36	76.25	-4.08	77.6	-2.62	72.2	-9.67	60	0.66		
65	-1.64	85.5	-0.34	86.6	0	86.55	-0.39	86.1	-1.93	85.6	-4.8	83.75	-4.39	85.1	-3.14	79.5	-10.11	65	0.66		
70	-1.64	92.7	-0.32	94.5	-0.33	94.4	-0.75	94.05	-2.39	93.15	-5.27	91.25	-4.75	92.55	-3.58	87.75	-10.55	70	0.66		
75	-1.64	100.25	-0.37	102.1	-0.7	103.55	-1.19	101.75	-2.92	100.85	-5.91	98.7	-5.2	100.2	-3.94	95.35	-10.9	75	0.66		
80	-1.64	108.25	-0.44	109.25	-1.13	111.1	-1.58	108.95	-3.41	108.35	-6.35	106.7	-5.53	107.85	-4.15	102.9	-11.08	80	0.66		
85	-1.64	115.6	-0.6	117.4	-1.59	118.75	-2.03	116.6	-3.86	116.05	-6.77	114.2	-5.8	114.85	-4.24	110.95	-10.99	85	0.66		
90	-1.64	123.75	-0.81	125.3	-2.09	126.3	-2.48	124.25	-4.29	124	-6.91	122.2	-5.91	122.4	-4.13	118.5	-10.63	90	0.66		
95	-1.64	130.95	-1.09	132.9	-2.52	133.85	-3	132.3	-4.6	131.95	-6.76	130.4	-5.81	129.9	-3.84	126	-10.05	95	0.66		
100	-1.64	138.95	-1.38	140.45	-2.93	141.25	-3.51	140.35	-4.84	139.55	-6.36	138.05	-5.5	138.1	-3.37	133.35	-9.34	100	0.66		
105	-1.64	146.1	-1.71	148.65	-3.28	148.75	-3.87	147.9	-4.89	147.1	-5.76	145.75	-4.97	145.75	-2.89	141.05	-8.64	105	0.66		
110	-1.64	154.1	-2.07	156.2	-3.49	156.15	-4.15	155.45	-4.76	154.6	-5.06	153.2	-4.38	153.25	-2.41	148.65	-7.98	110	0.66		
115	-1.64	162.35	-2.45	163.15	-3.64	163.3	-4.15	163	-4.41	162.05	-4.28	161.85	-3.74	161.2	-1.95	156.25	-7.4	115	0.66		
120	-1.64	169.8	-2.82	171.8	-3.76	170.95	-4.01	170.6	-4.15	169.5	-3.67	168.9	-3.22	168.8	-1.59	163.75	-6.91	120	0.66		
125	-1.64	177.85	-3.17	179	-3.83	179.1	-3.84	178.2	-4.19	177.75	-3.41	176.9	-2.82	176.3	-1.31	171.3	-6.55	125	0.66		
130	-1.64	185.35	-3.49	186.5	-3.99	186.6	-3.84	185.4	-4.63	185.45	-3.73	185.5	-2.73	183.8	-1.12	179.05	-6.21	130	0.66		
135	-1.64	192.85	-3.82	194	-4.13	194.1	-4.12	193.4	-5.86	193.85	-5	192.7	-2.95	191.3	-0.97	186.55	-5.96	135	0.66		
140	-1.64	200.35	-4.07	202.05	-4.34	202.05	-4.68	201.1	-8	201.05	-7.01	200.15	-3.53	198.6	-0.82	194.2	-5.79	140	0.66		
145	-1.64	208.3	-4.25	209.25	-4.37	209.2	-5.39	208.6	-10.64	209.7	-9.99	208.05	-4.42	206.35	-0.73	201.65	-5.66	145	0.66		
150	-1.64	215.85	-4.32	216.8	-4.15	216.95	-5.9	216.1	-11.26	216.7	-10.52	215.6	-5.21	214.35	-0.58	209.15	-5.52	150	0.66		
155	-1.64	223.85	-4.25	224.35	-3.65	224.45	-5.83	223.7	-8.59	224.2	-7.57	223.6	-5.61	222.6	-0.46	216.75	-5.38	155	0.66		
160	-1.64	231.55	-4.09	232.3	-2.97	231.8	-4.98	231.35	-5.79	232.5	-4.48	231.55	-5.16	229.9	-0.29	224.75	-5.19	160	0.66		
165	-1.64	238.65	-3.82	239.95	-2.26	239.95	-3.79	239.4	-3.71	240.05	-2.61	239.05	-4.28	237.5	-0.12	232.2	-4.91	165	0.66		
170	-1.64	246.2	-3.57	247.6	-1.62	247.2	-2.78	246.95	-2.42	247.55	-1.36	247	-3.34	245	0.07	240.6	-4.56	170	0.66		
175	-1.64	254.6	-3.28	254.7	-1.15	255.25	-2.04	254.55	-1.72	255.1	-0.72	254.4	-2.63	253	0.21	248.1	-4.15	175	0.66		
180	-1.64	262.1	-3.07	262.2	-0.85	263.05	-1.69	262.05	-1.53	263.25	-0.6	262.6	-2.23	260	0.36	255.6	-3.71	180	0.66		
185	-1.64	269.55	-2.91	270.15	-0.75	270.6	-1.68	269.4	-1.87	270.25	-0.92	269.75	-2.18	267.95	0.45	263.1	-3.29	185	0.66		
190	-1.64	277.1	-2.84	277.65	-0.81	278.1	-2.01	277.45	-2.8	277.7	-1.71	277.95	-2.24	276.4	0.53	270.65	-2.84	190	0.66		
195	-1.64	284.65	-2.79	285.2	-1.04	285.7	-2.67	285	-4.39	285.2	-2.92	286.1	-2.36	283.4	0.55	278.7	-2.38	195	0.66		
200	-1.64	292.2	-2.8	292.8	-1.3	293.55	-3.62	292.55	-6.83	293.25	-4.6	293.6	-2.41	292	0.56	286.35	-2.03	200	0.66		
205	-1.64	300.15	-2.8	300.35	-1.58	300.85	-4.42	300.15	-10.16	300.85	-6.02	301.1	-2.23	300.75	0.54	293.9	-1.76	205	0.66		
210	-1.64	308.1	-2.75	307.95	-1.81	308.95	-4.74	307.15	-11.81	308.5	-6.33	308.65	-1.88	307.9	0.56	301.4	-1.51	210	0.66		
215	-1.64	315.5	-2.66	315.45	-1.87	316.55	-4.36	315.1	-8.87	315.65	-5.3	316.25	-1.44	315.45	0.53	308.85	-1.35	215	0.66		
220	-1.64	323.2	-2.54	323.45	-1.87	324.2	-3.5	322.45	-5.85	323.6	-3.73	323.4	-1.12	322.9	0.45	316.15	-1.29	220	0.66		
225	-1.64	331.35	-2.34	330.95	-1.75	331.7	-2.52	330.85	-3.66	331.15	-2.57	331.55	-0.95	331.25	0.35	324.35	-1.33	225	0.66		
230	-1.64	338.95	-2.15	338.5	-1.61	339.2	-1.85	338.35	-2.6	338.75	-1.85	339.15	-0.93	339.35	0.26	331.8	-1.47	230	0.66		
235	-1.64	346.55	-1.94	346.35	-1.5	346.75	-1.46	345.9	-2.25	345.7	-1.52	346.3	-1.15	346.95	0.12	339.5	-1.74	235	0.66		
240	-1.64	352.75	-1.85	353.05	-1.43	353.05	-1.32	353	-2.27	353	-1.52	353.2	-1.28	352.9	0.09	346.65	-2.15	240	0.66		
245	-1.64	355	-1.88	355	-1.42	355	-1.31	355	-2.32	355	-1.52	355	-1.31	355	0.12	352.95	-2.38	245	0.66		
250	-1.64	360	-1.74	360	-1.3	360	-1.27	360	-2.81	360	-1.72	360	-1.63	360	-0.03	355	-2.36	250	0.66		
255	-1.64															360	-3.06	255	0.66		
260	-1.64																	260	0.66		
265	-1.64																	265	0.66		
270	-1.64																	270	0.66		
275	-1.64																	275	0.66		
280	-1.64																	280	0.66		
285	-1.64																	285	0.66		
290	-1.64																	290	0.66		
295	-1.64																	295	0.66		
300	-1.64																	300	0.66		
305	-1.64																	305	0.66		
310	-1.64																	310	0.66		
315	-1.64																	315	0.66		
320	-1.64																	320	0.66		
325	-1.64																	325	0.66		
330	-1.64																	330	0.66		
335	-1.64																	335	0.66		
340	-1.64																	340	0.66		
345	-1.64																	345	0.66		
350	-1.64																	350	0.66		
355																					

2400 Theta Ang	0		20		40		60		80		100		120		140		160		180	
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)
0	-1.21	0	-1.26	0	-0.94	0	-0.94	0	-2.41	0	-1.4	0	-1.48	0	0	0	-3.08	0	0.66	
5	-1.21	0	-1.26	0.05	-0.93	0	-0.94	0.05	-2.45	0	-1.4	0	-1.48	0.05	0.03	0	-3.08	5	0.66	
10	-1.21	1.65	-1.25	3.4	-0.84	2.5	-0.96	2.9	-2.73	0.8	-1.41	1.6	-1.48	2.55	-0.01	0.15	-3.12	10	0.66	
15	-1.21	7.4	-1.16	10.85	-0.65	10.3	-1.05	9.95	-3.39	6.15	-1.74	7.6	-1.8	9.4	-0.15	4.3	-3.58	15	0.66	
20	-1.21	15.05	-1.1	18.35	-0.44	17.8	-1.11	18.1	-3.64	14.55	-2.14	15.25	-2.06	17.05	-0.28	11.65	-4.45	20	0.66	
25	-1.21	22.5	-1.01	26.2	-0.14	25.35	-0.99	25.3	-3.23	22.65	-2.35	22.7	-2.29	24	-0.4	19.75	-5.42	25	0.66	
30	-1.21	30.05	-0.9	33.95	0.13	32.45	-0.77	32.95	-2.41	30.7	-2.5	30.2	-2.47	32	-0.56	27.2	-6.32	30	0.66	
35	-1.21	38.05	-0.79	41.5	0.34	40.25	-0.44	41	-1.59	38.4	-2.62	38.2	-2.67	39.2	-0.76	34.7	-7.22	35	0.66	
40	-1.21	45.6	-0.66	49	0.53	48.35	-0.1	48.25	-1.08	46.5	-2.87	45.8	-3	46.9	-1.06	42.2	-8	40	0.66	
45	-1.21	53.1	-0.54	56.45	0.64	55.85	0.1	55.85	-0.85	54.85	-3.15	53	-3.23	54.85	-1.41	49.7	-8.63	45	0.66	
50	-1.21	61.35	-0.37	63.9	0.66	63.3	0.21	63.8	-0.81	62.35	-3.44	60.45	-3.48	62.3	-1.81	57.15	-9.13	50	0.66	
55	-1.21	69.8	-0.19	71.4	0.59	70.8	0.15	71.3	-0.95	70.4	-3.74	68.65	-3.75	69.55	-2.25	65.1	-9.56	55	0.66	
60	-1.21	77.95	-0.09	79.4	0.45	78.1	0.02	78.9	-1.23	78.05	-4.04	76.25	-4	77.6	-2.72	72.2	-9.92	60	0.66	
65	-1.21	85.5	-0.01	86.6	0.21	86.55	-0.23	86.1	-1.61	85.6	-4.4	83.75	-4.29	85.1	-3.22	79.5	-10.33	65	0.66	
70	-1.21	92.7	0.01	94.5	-0.1	94.4	-0.57	94.05	-2.05	93.15	-4.9	91.25	-4.67	92.55	-3.69	87.75	-10.8	70	0.66	
75	-1.21	100.25	0	102.1	-0.49	103.55	-0.99	101.75	-2.58	100.85	-5.51	98.7	-5.06	100.2	-4.07	95.35	-11.22	75	0.66	
80	-1.21	108.25	-0.08	109.25	-0.92	111.1	-1.39	108.95	-3.1	108.35	-6.17	106.7	-5.53	107.85	-4.34	102.9	-11.54	80	0.66	
85	-1.21	115.6	-0.22	117.4	-1.38	118.75	-1.84	116.6	-3.62	116.05	-6.73	114.2	-5.84	114.85	-4.45	110.95	-11.58	85	0.66	
90	-1.21	123.75	-0.4	125.3	-1.89	126.3	-2.32	124.25	-4.11	124	-7.02	122.2	-6.1	122.4	-4.37	118.5	-11.25	90	0.66	
95	-1.21	130.95	-0.64	132.9	-2.33	133.85	-2.86	132.3	-4.44	131.95	-6.99	130.4	-6.04	129.9	-4.03	126	-10.64	95	0.66	
100	-1.21	138.95	-0.92	140.45	-2.75	141.25	-3.32	140.35	-4.81	139.55	-6.61	138.05	-5.71	138.1	-3.56	133.35	-9.83	100	0.66	
105	-1.21	146.1	-1.22	148.65	-3.07	148.75	-3.74	147.9	-4.85	147.1	-5.99	145.75	-5.12	145.75	-3.02	141.05	-9.02	105	0.66	
110	-1.21	154.1	-1.55	156.2	-3.25	156.15	-3.92	155.45	-4.64	154.6	-5.13	153.2	-4.43	153.25	-2.49	148.65	-8.25	110	0.66	
115	-1.21	162.35	-1.92	163.15	-3.32	163.3	-3.88	163	-4.28	162.05	-4.23	161.85	-3.68	161.2	-2	156.25	-7.59	115	0.66	
120	-1.21	169.8	-2.26	171.8	-3.41	170.95	-3.72	170.6	-3.9	169.5	-3.57	168.9	-3.16	168.8	-1.6	163.75	-7.03	120	0.66	
125	-1.21	177.85	-2.6	179	-3.49	179.1	-3.56	178.2	-3.79	177.75	-3.22	176.9	-2.71	176.3	-1.29	171.3	-6.59	125	0.66	
130	-1.21	185.35	-2.89	186.5	-3.64	186.6	-3.51	185.4	-4.22	185.45	-3.46	185.5	-2.58	183.8	-1.04	179.05	-6.19	130	0.66	
135	-1.21	192.85	-3.22	194	-3.88	194.1	-3.8	193.4	-5.42	193.85	-4.61	192.7	-2.8	191.3	-0.88	186.55	-5.97	135	0.66	
140	-1.21	200.35	-3.48	202.05	-4.1	202.05	-4.39	201.1	-7.52	201.05	-6.59	200.15	-3.29	198.6	-0.75	194.2	-5.75	140	0.66	
145	-1.21	208.3	-3.66	209.25	-4.21	209.2	-5.07	208.6	-10.29	209.7	-9.65	208.05	-4.09	206.35	-0.64	201.65	-5.54	145	0.66	
150	-1.21	215.85	-3.75	216.8	-4.01	216.95	-5.62	216.1	-11.27	216.7	-10.56	215.6	-4.92	214.35	-0.46	209.15	-5.48	150	0.66	
155	-1.21	223.85	-3.72	224.35	-3.5	224.45	-5.54	223.7	-8.64	224.2	-7.74	223.6	-5.31	222.6	-0.25	216.75	-5.19	155	0.66	
160	-1.21	231.55	-3.56	232.3	-2.85	231.8	-4.68	231.35	-5.72	232.5	-4.5	231.55	-4.89	229.9	-0.09	224.75	-4.99	160	0.66	
165	-1.21	238.65	-3.38	239.95	-2.1	239.95	-3.52	239.4	-3.59	240.05	-2.55	239.05	-4	237.5	0.11	232.2	-4.73	165	0.66	
170	-1.21	246.2	-3.14	247.6	-1.43	247.2	-2.55	246.95	-2.25	247.55	-1.26	247	-3.11	245	0.31	240.6	-4.3	170	0.66	
175	-1.21	254.6	-2.85	254.7	-0.95	255.25	-1.78	254.55	-1.52	255.1	-0.59	254.4	-2.38	253	0.48	248.1	-3.9	175	0.66	
180	-1.21	262.1	-2.68	262.2	-0.67	263.05	-1.43	262.05	-1.33	263.25	-0.46	262.6	-2	260	0.61	255.6	-3.44	180	0.66	
185	-1.21	269.55	-2.56	270.15	-0.55	270.6	-1.39	269.4	-1.66	270.25	-0.75	269.75	-1.92	267.95	0.71	263.1	-3.06	185	0.66	
190	-1.21	277.1	-2.47	277.65	-0.62	278.1	-1.71	277.45	-2.59	277.7	-1.53	277.95	-2.01	276.4	0.75	270.65	-2.62	190	0.66	
195	-1.21	284.65	-2.4	285.2	-0.79	285.7	-2.38	285	-4.18	285.2	-2.77	286.1	-2.18	283.4	0.77	278.7	-2.22	195	0.66	
200	-1.21	292.2	-2.4	292.8	-1.09	293.55	-3.32	292.55	-6.68	293.25	-4.52	293.6	-2.18	292	0.78	286.35	-1.9	200	0.66	
205	-1.21	300.15	-2.38	300.35	-1.37	300.85	-4.17	300.15	-9.9	300.85	-5.95	301.1	-2.01	300.75	0.76	293.9	-1.62	205	0.66	
210	-1.21	308.1	-2.32	307.95	-1.56	308.95	-4.56	307.15	-11.43	308.5	-6.23	308.65	-1.66	307.9	0.72	301.4	-1.37	210	0.66	
215	-1.21	315.5	-2.18	315.45	-1.67	316.55	-4.17	315.1	-8.49	315.65	-5.1	316.25	-1.25	315.45	0.68	308.85	-1.22	215	0.66	
220	-1.21	323.2	-2.03	323.45	-1.65	324.2	-3.29	322.45	-5.45	323.6	-3.47	323.4	-0.88	322.9	0.61	316.15	-1.14	220	0.66	
225	-1.21	331.35	-1.81	330.95	-1.53	331.7	-2.31	330.85	-3.27	331.15	-2.23	331.55	-0.67	331.25	0.5	324.35	-1.17	225	0.66	
230	-1.21	338.95	-1.63	338.5	-1.34	339.2	-1.55	338.35	-2.23	338.75	-1.5	339.15	-0.69	339.35	0.36	331.8	-1.34	230	0.66	
235	-1.21	346.55	-1.47	346.35	-1.19	346.75	-1.13	345.9	-1.86	345.7	-1.17	346.3	-0.91	346.95	0.19	339.5	-1.64	235	0.66	
240	-1.21	352.75	-1.34	353.05	-1.1	353.05	-0.98	353	-1.93	353	-1.18	353.2	-1.06	352.9	0.15	346.65	-2.08	240	0.66	
245	-1.21	355	-1.36	355	-1.09	355	-0.98	355	-1.93	355	-1.16	355	-1.07	355	0.16	352.95	-2.35	245	0.66	
250	-1.21	360	-1.26	360	-0.94	360	-0.94	360	-2.41	360	-1.4	360	-1.48	360	0	355	-2.36	250	0.66	
255	-1.21															360	-3.08	255	0.66	
260	-1.21																	260	0.66	
265	-1.21																	265	0.66	
270	-1.21																	270	0.66	
275	-1.21																	275	0.66	
280	-1.21																	280	0.66	
285	-1.21																	285	0.66	
290	-1.21																	290	0.66	
295	-1.21																	295	0.66	
300	-1.21																	300	0.66	
305	-1.21																	305	0.66	
310	-1.21																	310	0.66	
315	-1.21																	315	0.66	
320	-1.21																	320	0.66	
325	-1.21																	325	0.66	
330	-1.21																	330	0.66	
335	-1.21																	335	0.66	
340	-1.21																	340	0.66	
345	-1.21																	345	0.66	
350	-1.21																	350	0.66	
355	-1.21																	355	0.66	
360	-1.21																	360	0.66	

2410 Theta Ang	0		20		40		60		80		100		120		140		160		180	
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)
0	-0.73	0	-0.76	0	-0.57	0	-0.65	0	-2.19	0	-1.2	0	-1.37	0	-0.04	0	-3.24	0	0.56	
5	-0.73	0	-0.76	0.05	-0.57	0	-0.65	0.05	-2.18	0	-1.2	0	-1.37	0.05	-0.05	0	-3.24	5	0.56	
10	-0.73	1.65	-0.72	3.4	-0.54	2.5	-0.69	2.9	-2.44	0.8	-1.24	1.6	-1.36	2.55	-0.09	0.15	-3.27	10	0.56	
15	-0.73	7.4	-0.7	10.85	-0.38	10.3	-0.79	9.95	-3.15	6.15	-1.6	7.6	-1.73	9.4	-0.27	4.3	-3.79	15	0.56	
20	-0.73	15.05	-0.64	18.35	-0.18	17.8	-0.92	18.1	-3.45	14.55	-2.06	15.25	-2.08	17.05	-0.42	11.65	-4.65	20	0.56	
25	-0.73	22.5	-0.61	26.2	0.04	25.35	-0.88	25.3	-3.08	22.65	-2.4	22.7	-2.33	24	-0.54	19.75	-5.68	25	0.56	
30	-0.73	30.05	-0.57	33.95	0.21	32.45	-0.73	32.95	-2.36	30.7	-2.61	30.2	-2.61	32	-0.75	27.2	-6.66	30	0.56	
35	-0.73	38.05	-0.48	41.5	0.41	40.25	-0.45	41	-1.56	38.4	-2.81	38.2	-2.87	39.2	-0.95	34.7	-7.55	35	0.56	
40	-0.73	45.6	-0.34	49	0.56	48.35	-0.15	48.25	-1.07	46.5	-3.02	45.8	-3.15	46.9	-1.22	42.2	-8.3	40	0.56	
45	-0.73	53.1	-0.26	56.45	0.65	55.85	0.06	55.85	-0.8	54.85	-3.26	53	-3.39	54.85	-1.55	49.7	-8.85	45	0.56	
50	-0.73	61.35	-0.11	63.9	0.66	63.3	0.12	63.8	-0.74	62.35	-3.44	60.45	-3.58	62.3	-1.9	57.15	-9.22	50	0.56	
55	-0.73	69.8	0.04	71.4	0.6	70.8	0.1	71.3	-0.89	70.4	-3.63	68.65	-3.71	69.55	-2.28	65.1	-9.48	55	0.56	
60	-0.73	77.95	0.13	79.4	0.47	78.1	-0.05	78.9	-1.13	78.05	-3.78	76.25	-3.88	77.6	-2.73	72.2	-9.71	60	0.56	
65	-0.73	85.5	0.2	86.6	0.25	86.55	-0.29	86.1	-1.5	85.6	-4.12	83.75	-4.13	85.1	-3.17	79.5	-9.99	65	0.56	
70	-0.73	92.7	0.22	94.5	-0.06	94.4	-0.63	94.05	-1.96	93.15	-4.58	91.25	-4.43	92.55	-3.62	87.75	-10.39	70	0.56	
75	-0.73	100.25	0.21	102.1	-0.4	103.55	-1.08	101.75	-2.51	100.85	-5.17	98.7	-4.83	100.2	-4.04	95.35	-10.85	75	0.56	
80	-0.73	108.25	0.13	109.25	-0.87	111.1	-1.47	108.95	-3.06	108.35	-5.86	106.7	-5.32	107.85	-4.39	102.9	-11.3	80	0.56	
85	-0.73	115.6	0	117.4	-1.37	118.75	-1.89	116.6	-3.56	116.05	-6.62	114.2	-5.8	114.85	-4.54	110.95	-11.57	85	0.56	
90	-0.73	123.75	-0.16	125.3	-1.87	126.3	-2.37	124.25	-4.13	124	-7.2	122.2	-6.16	122.4	-4.55	118.5	-11.45	90	0.56	
95	-0.73	130.95	-0.35	132.9	-2.34	133.85	-2.88	132.3	-4.58	131.95	-7.3	130.4	-6.28	129.9	-4.26	126	-10.97	95	0.56	
100	-0.73	138.95	-0.58	140.45	-2.76	141.25	-3.37	140.35	-4.9	139.55	-7.04	138.05	-6.02	138.1	-3.77	133.35	-10.19	100	0.56	
105	-0.73	146.1	-0.81	148.65	-3.02	148.75	-3.73	147.9	-4.97	147.1	-6.3	145.75	-5.34	145.75	-3.21	141.05	-9.34	105	0.56	
110	-0.73	154.1	-1.09	156.2	-3.15	156.15	-3.91	155.45	-4.68	154.6	-5.34	153.2	-4.57	153.25	-2.57	148.65	-8.5	110	0.56	
115	-0.73	162.35	-1.41	163.15	-3.15	163.3	-3.83	163	-4.23	162.05	-4.31	161.85	-3.75	161.2	-2.06	156.25	-7.77	115	0.56	
120	-0.73	169.8	-1.69	171.8	-3.18	170.95	-3.59	170.6	-3.76	169.5	-3.55	168.9	-3.06	168.8	-1.64	163.75	-7.16	120	0.56	
125	-0.73	177.85	-1.97	179	-3.22	179.1	-3.37	178.2	-3.64	177.75	-3.09	176.9	-2.62	176.3	-1.31	171.3	-6.67	125	0.56	
130	-0.73	185.35	-2.24	186.5	-3.31	186.6	-3.34	185.4	-4	185.45	-3.33	185.5	-2.49	183.8	-1.05	179.05	-6.32	130	0.56	
135	-0.73	192.85	-2.5	194	-3.52	194.1	-3.61	193.4	-5.13	193.85	-4.45	192.7	-2.69	191.3	-0.87	186.55	-6.01	135	0.56	
140	-0.73	200.35	-2.74	202.05	-3.75	202.05	-4.08	201.1	-7.15	201.05	-6.38	200.15	-3.19	198.6	-0.76	194.2	-5.76	140	0.56	
145	-0.73	208.3	-2.9	209.25	-3.86	209.2	-4.76	208.6	-9.89	209.7	-9.47	208.05	-4.02	206.35	-0.61	201.65	-5.61	145	0.56	
150	-0.73	215.85	-3.01	216.8	-3.72	216.95	-5.25	216.1	-11.08	216.7	-10.66	215.6	-4.84	214.35	-0.44	209.15	-5.41	150	0.56	
155	-0.73	223.85	-2.97	224.35	-3.23	224.45	-5.15	223.7	-8.64	224.2	-7.92	223.6	-5.23	222.6	-0.25	216.75	-5.25	155	0.56	
160	-0.73	231.55	-2.85	232.3	-2.58	231.8	-4.4	231.35	-5.77	232.5	-4.65	231.55	-4.85	229.9	-0.04	224.75	-4.94	160	0.56	
165	-0.73	238.65	-2.68	239.95	-1.84	239.95	-3.27	239.4	-3.57	240.05	-2.61	239.05	-3.89	237.5	0.19	232.2	-4.62	165	0.56	
170	-0.73	246.2	-2.44	247.6	-1.17	247.2	-2.29	246.95	-2.25	247.55	-1.29	247	-3.04	245	0.39	240.6	-4.2	170	0.56	
175	-0.73	254.6	-2.24	254.7	-0.73	255.25	-1.54	254.55	-1.5	255.1	-0.61	254.4	-2.27	253	0.58	248.1	-3.76	175	0.56	
180	-0.73	262.1	-2.08	262.2	-0.4	263.05	-1.16	262.05	-1.28	263.25	-0.46	262.6	-1.89	260	0.72	255.6	-3.33	180	0.56	
185	-0.73	269.55	-1.92	270.15	-0.25	270.6	-1.11	269.4	-1.58	270.25	-0.78	269.75	-1.84	267.95	0.8	263.1	-2.93	185	0.56	
190	-0.73	277.1	-1.85	277.65	-0.3	278.1	-1.4	277.45	-2.55	277.7	-1.55	277.95	-1.91	276.4	0.88	270.65	-2.55	190	0.56	
195	-0.73	284.65	-1.81	285.2	-0.48	285.7	-2.04	285	-4.11	285.2	-2.8	286.1	-2.04	283.4	0.89	278.7	-2.15	195	0.56	
200	-0.73	292.2	-1.77	292.8	-0.76	293.55	-2.97	292.55	-6.46	293.25	-4.54	293.6	-2.1	292	0.86	286.35	-1.83	200	0.56	
205	-0.73	300.15	-1.72	300.35	-1.06	300.85	-3.85	300.15	-9.68	300.85	-6	301.1	-1.95	300.75	0.82	293.9	-1.56	205	0.56	
210	-0.73	308.1	-1.65	307.95	-1.27	308.95	-4.34	307.15	-11.16	308.5	-6.24	308.65	-1.59	307.9	0.8	301.4	-1.33	210	0.56	
215	-0.73	315.5	-1.52	315.45	-1.37	316.55	-4.03	315.1	-8.26	315.65	-4.96	316.25	-1.14	315.45	0.73	308.85	-1.16	215	0.56	
220	-0.73	323.2	-1.39	323.45	-1.37	324.2	-3.2	322.45	-5.26	323.6	-3.3	323.4	-0.79	322.9	0.63	316.15	-1.09	220	0.56	
225	-0.73	331.35	-1.19	330.95	-1.23	331.7	-2.13	330.85	-3.07	331.15	-2.05	331.55	-0.58	331.25	0.51	324.35	-1.14	225	0.56	
230	-0.73	338.95	-1.02	338.5	-1.04	339.2	-1.35	338.35	-1.97	338.75	-1.27	339.15	-0.56	339.35	0.34	331.8	-1.32	230	0.56	
235	-0.73	346.55	-0.92	346.35	-0.86	346.75	-0.85	345.9	-1.6	345.7	-0.97	346.3	-0.77	346.95	0.2	339.5	-1.65	235	0.56	
240	-0.73	352.75	-0.81	353.05	-0.72	353.05	-0.69	353	-1.67	353	-0.97	353.2	-0.98	352.9	0.1	346.65	-2.11	240	0.56	
245	-0.73	355	-0.84	355	-0.75	355	-0.71	355	-1.65	355	-0.97	355	-0.94	355	0.13	352.95	-2.44	245	0.56	
250	-0.73	360	-0.76	360	-0.57	360	-0.65	360	-2.19	360	-1.2	360	-1.37	360	-0.04	355	-2.43	250	0.56	
255	-0.73															360	-3.24	255	0.56	
260	-0.73																	260	0.56	
265	-0.73																	265	0.56	
270	-0.73																	270	0.56	
275	-0.73																	275	0.56	
280	-0.73																	280	0.56	
285	-0.73																	285	0.56	
290	-0.73																	290	0.56	
295	-0.73																	295	0.56	
300	-0.73																	300	0.56	
305	-0.73																	305	0.56	
310	-0.73																	310	0.56	
315	-0.73																	315	0.56	
320	-0.73																	320	0.56	
325	-0.73																	325	0.56	
330	-0.73																	330	0.56	
335	-0.73																	335	0.56	
340	-0.73																	340	0.56	
345	-0.73																	345	0.56	
350	-0.73																	350	0.56	
355	-0.73																	355	0.56	
360	-0.73																	360	0.56	

2420 Theta Ang		0		20		40		60		80		100		120		140		160		180	
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response (dB)
0	-1.22	0	-1.08	0	-0.72	0	-0.64	0	-2.23	0	-1.26	0	-1.44	0	0.03	0	-3.23	0	0.82		
5	-1.22	0	-1.08	0.05	-0.74	0	-0.64	0.05	-2.23	0	-1.26	0	-1.44	0.05	0.03	0	-3.23	5	0.82		
10	-1.22	1.65	-1.08	3.4	-0.68	2.5	-0.69	2.9	-2.51	0.8	-1.28	1.6	-1.48	2.55	0.02	0.15	-3.23	10	0.82		
15	-1.22	7.4	-1.07	10.85	-0.67	10.3	-0.97	9.95	-3.35	6.15	-1.67	7.6	-1.85	9.4	-0.14	4.3	-3.68	15	0.82		
20	-1.22	15.05	-1.06	18.35	-0.57	17.8	-1.2	18.1	-3.7	14.55	-2.26	15.25	-2.21	17.05	-0.28	11.65	-4.6	20	0.82		
25	-1.22	22.5	-1.03	26.2	-0.42	25.35	-1.23	25.3	-3.24	22.65	-2.67	22.7	-2.51	24	-0.42	19.75	-5.57	25	0.82		
30	-1.22	30.05	-0.97	33.95	-0.22	32.45	-1.02	32.95	-2.4	30.7	-2.94	30.2	-2.82	32	-0.57	27.2	-6.5	30	0.82		
35	-1.22	38.05	-0.85	41.5	0	40.25	-0.74	41	-1.55	38.4	-3.09	38.2	-3.03	39.2	-0.75	34.7	-7.36	35	0.82		
40	-1.22	45.6	-0.74	49	0.2	48.35	-0.35	48.25	-0.98	46.5	-3.23	45.8	-3.35	46.9	-1.02	42.2	-8.04	40	0.82		
45	-1.22	53.1	-0.56	56.45	0.33	55.85	-0.1	55.85	-0.67	54.85	-3.28	53	-3.47	54.85	-1.31	49.7	-8.53	45	0.82		
50	-1.22	61.35	-0.41	63.9	0.39	63.3	0.02	63.8	-0.59	62.35	-3.37	60.45	-3.62	62.3	-1.67	57.15	-8.82	50	0.82		
55	-1.22	69.8	-0.23	71.4	0.41	70.8	0.02	71.3	-0.67	70.4	-3.42	68.65	-3.64	69.55	-2.04	65.1	-9.03	55	0.82		
60	-1.22	77.95	-0.12	79.4	0.35	78.1	-0.09	78.9	-0.91	78.05	-3.5	76.25	-3.77	77.6	-2.48	72.2	-9.22	60	0.82		
65	-1.22	85.5	-0.07	86.6	0.18	86.55	-0.32	86.1	-1.24	85.6	-3.72	83.75	-3.95	85.1	-2.92	79.5	-9.46	65	0.82		
70	-1.22	92.7	-0.04	94.5	-0.09	94.4	-0.61	94.05	-1.65	93.15	-4.14	91.25	-4.2	92.55	-3.36	87.75	-9.85	70	0.82		
75	-1.22	100.25	-0.05	102.1	-0.4	103.55	-1	101.75	-2.17	100.85	-4.71	98.7	-4.59	100.2	-3.83	95.35	-10.33	75	0.82		
80	-1.22	108.25	-0.14	109.25	-0.84	111.1	-1.36	108.95	-2.7	108.35	-5.43	106.7	-5.1	107.85	-4.25	102.9	-10.85	80	0.82		
85	-1.22	115.6	-0.26	117.4	-1.36	118.75	-1.78	116.6	-3.28	116.05	-6.26	114.2	-5.7	114.85	-4.49	110.95	-11.27	85	0.82		
90	-1.22	123.75	-0.43	125.3	-1.97	126.3	-2.25	124.25	-3.87	124	-7.09	122.2	-6.17	122.4	-4.53	118.5	-11.34	90	0.82		
95	-1.22	130.95	-0.63	132.9	-2.5	133.85	-2.82	132.3	-4.43	131.95	-7.59	130.4	-6.43	129.9	-4.32	126	-11	95	0.82		
100	-1.22	138.95	-0.86	140.45	-3.07	141.25	-3.38	140.35	-4.87	139.55	-7.59	138.05	-6.28	138.1	-3.86	133.35	-10.28	100	0.82		
105	-1.22	146.1	-1.06	148.65	-3.42	148.75	-3.82	147.9	-5.04	147.1	-6.84	145.75	-5.66	145.75	-3.25	141.05	-9.4	105	0.82		
110	-1.22	154.1	-1.36	156.2	-3.62	156.15	-4.08	155.45	-4.84	154.6	-5.77	153.2	-4.86	153.25	-2.57	148.65	-8.5	110	0.82		
115	-1.22	162.35	-1.63	163.15	-3.61	163.3	-4.05	163	-4.34	162.05	-4.69	161.85	-3.91	161.2	-1.98	156.25	-7.71	115	0.82		
120	-1.22	169.8	-1.9	171.8	-3.54	170.95	-3.8	170.6	-3.88	169.5	-3.71	168.9	-3.2	168.8	-1.48	163.75	-7.03	120	0.82		
125	-1.22	177.85	-2.17	179	-3.5	179.1	-3.5	178.2	-3.62	177.75	-3.22	176.9	-2.62	176.3	-1.1	171.3	-6.5	125	0.82		
130	-1.22	185.35	-2.44	186.5	-3.54	186.6	-3.4	185.4	-3.91	185.45	-3.3	185.5	-2.38	183.8	-0.85	179.05	-6.1	130	0.82		
135	-1.22	192.85	-2.7	194	-3.71	194.1	-3.59	193.4	-4.92	193.85	-4.32	192.7	-2.53	191.3	-0.64	186.55	-5.81	135	0.82		
140	-1.22	200.35	-2.95	202.05	-3.93	202.05	-4.05	201.1	-6.89	201.05	-6.18	200.15	-2.98	198.6	-0.49	194.2	-5.57	140	0.82		
145	-1.22	208.3	-3.2	209.25	-4.09	209.2	-4.72	208.6	-9.79	209.7	-9.28	208.05	-3.78	206.35	-0.34	201.65	-5.4	145	0.82		
150	-1.22	215.85	-3.3	216.8	-3.95	216.95	-5.26	216.1	-11.49	216.7	-10.71	215.6	-4.47	214.35	-0.17	209.15	-5.22	150	0.82		
155	-1.22	223.85	-3.32	224.35	-3.48	224.45	-5.13	223.7	-9.13	224.2	-8.04	223.6	-4.79	222.6	0.07	216.75	-5.02	155	0.82		
160	-1.22	231.55	-3.21	232.3	-2.8	231.8	-4.37	231.35	-6.02	232.5	-4.71	231.55	-4.39	229.9	0.28	224.75	-4.73	160	0.82		
165	-1.22	238.65	-3.07	239.95	-2.02	239.95	-3.26	239.4	-3.74	240.05	-2.64	239.05	-3.5	237.5	0.51	232.2	-4.4	165	0.82		
170	-1.22	246.2	-2.79	247.6	-1.34	247.2	-2.28	246.95	-2.37	247.55	-1.27	247	-2.66	245	0.74	240.6	-4.01	170	0.82		
175	-1.22	254.6	-2.52	254.7	-0.79	255.25	-1.5	254.55	-1.6	255.1	-0.61	254.4	-2	253	0.93	248.1	-3.6	175	0.82		
180	-1.22	262.1	-2.31	262.2	-0.44	263.05	-1.12	262.05	-1.38	263.25	-0.43	262.6	-1.64	260	1.08	255.6	-3.2	180	0.82		
185	-1.22	269.55	-2.18	270.15	-0.25	270.6	-1.06	269.4	-1.7	270.25	-0.77	269.75	-1.56	267.95	1.14	263.1	-2.78	185	0.82		
190	-1.22	277.1	-2.05	277.65	-0.28	278.1	-1.36	277.45	-2.63	277.7	-1.56	277.95	-1.68	276.4	1.17	270.65	-2.42	190	0.82		
195	-1.22	284.65	-1.95	285.2	-0.46	285.7	-1.95	285	-4.31	285.2	-2.88	286.1	-1.87	283.4	1.16	278.7	-2.02	195	0.82		
200	-1.22	292.2	-1.94	292.8	-0.7	293.55	-2.89	292.55	-6.67	293.25	-4.59	293.6	-1.95	292	1.12	286.35	-1.71	200	0.82		
205	-1.22	300.15	-1.86	300.35	-0.97	300.85	-3.73	300.15	-9.81	300.85	-6.14	301.1	-1.82	300.75	1.02	293.9	-1.46	205	0.82		
210	-1.22	308.1	-1.78	307.95	-1.22	308.95	-4.18	307.15	-10.73	308.5	-6.31	308.65	-1.53	307.9	0.91	301.4	-1.25	210	0.82		
215	-1.22	315.5	-1.66	315.45	-1.31	316.55	-3.82	315.1	-7.68	315.65	-4.97	316.25	-1.15	315.45	0.82	308.85	-1.07	215	0.82		
220	-1.22	323.2	-1.5	323.45	-1.31	324.2	-2.91	322.45	-4.85	323.6	-3.22	323.4	-0.84	322.9	0.73	316.15	-1.01	220	0.82		
225	-1.22	331.35	-1.35	330.95	-1.19	331.7	-1.92	330.85	-2.76	331.15	-1.95	331.55	-0.64	331.25	0.55	324.35	-1.07	225	0.82		
230	-1.22	338.95	-1.24	338.5	-1.01	339.2	-1.14	338.35	-1.76	338.75	-1.16	339.15	-0.66	339.35	0.38	331.8	-1.27	230	0.82		
235	-1.22	346.55	-1.14	346.35	-0.88	346.75	-0.74	345.9	-1.45	345.7	-0.89	346.3	-0.85	346.95	0.25	339.5	-1.6	235	0.82		
240	-1.22	352.75	-1.09	353.05	-0.81	353.05	-0.58	353	-1.58	353	-0.91	353.2	-1.06	352.9	0.15	346.65	-2.04	240	0.82		
245	-1.22	355	-1.09	355	-0.8	355	-0.58	355	-1.55	355	-0.93	355	-1.05	355	0.16	352.95	-2.37	245	0.82		
250	-1.22	360	-1.08	360	-0.72	360	-0.64	360	-2.23	360	-1.26	360	-1.44	360	0.03	355	-2.39	250	0.82		
255	-1.22															360	-3.23	255	0.82		
260	-1.22																	260	0.82		
265	-1.22																	265	0.82		
270	-1.22																	270	0.82		
275	-1.22																	275	0.82		
280	-1.22																	280	0.82		
285	-1.22																	285	0.82		
290	-1.22																	290	0.82		
295	-1.22																	295	0.82		
300	-1.22																	300	0.82		
305	-1.22																	305	0.82		
310	-1.22																	310	0.82		
315	-1.22																	315	0.82		
320	-1.22																	320	0.82		
325	-1.22																	325	0.82		
330	-1.22																	330	0.82		
335	-1.22																	335	0.82		
340	-1.22																	340	0.82		
345	-1.22	</																			

2430 Theta Ang	0		20		40		60		80		100		120		140		160		180	
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)
0	-0.84	0	-0.62	0	-0.4	0	-0.41	0	-2.03	0	-1.08	0	-1.23	0	0.14	0	-3.24	0	0.82	
5	-0.84	0	-0.62	0.05	-0.43	0	-0.41	0.05	-2.02	0	-1.08	0	-1.23	0.05	0.12	0	-3.24	5	0.82	
10	-0.84	1.65	-0.65	3.4	-0.37	2.5	-0.46	2.9	-2.24	0.8	-1.06	1.6	-1.26	2.55	0.09	0.15	-3.22	10	0.82	
15	-0.84	7.4	-0.62	10.85	-0.32	10.3	-0.68	9.95	-2.93	6.15	-1.44	7.6	-1.69	9.4	-0.1	4.3	-3.64	15	0.82	
20	-0.84	15.05	-0.64	18.35	-0.23	17.8	-0.88	18.1	-3.25	14.55	-2.1	15.25	-2.11	17.05	-0.29	11.65	-4.58	20	0.82	
25	-0.84	22.5	-0.55	26.2	-0.06	25.35	-0.92	25.3	-2.85	22.65	-2.63	22.7	-2.49	24	-0.51	19.75	-5.63	25	0.82	
30	-0.84	30.05	-0.46	33.95	0.11	32.45	-0.77	32.95	-2.09	30.7	-2.98	30.2	-2.9	32	-0.74	27.2	-6.64	30	0.82	
35	-0.84	38.05	-0.33	41.5	0.29	40.25	-0.48	41	-1.33	38.4	-3.19	38.2	-3.26	39.2	-0.96	34.7	-7.53	35	0.82	
40	-0.84	45.6	-0.22	49	0.46	48.35	-0.18	48.25	-0.81	46.5	-3.32	45.8	-3.48	46.9	-1.19	42.2	-8.25	40	0.82	
45	-0.84	53.1	-0.04	56.45	0.57	55.85	0.02	55.85	-0.49	54.85	-3.28	53	-3.58	54.85	-1.47	49.7	-8.7	45	0.82	
50	-0.84	61.35	0.13	63.9	0.63	63.3	0.11	63.8	-0.4	62.35	-3.21	60.45	-3.57	62.3	-1.82	57.15	-8.93	50	0.82	
55	-0.84	69.8	0.28	71.4	0.65	70.8	0.07	71.3	-0.52	70.4	-3.09	68.65	-3.53	69.55	-2.15	65.1	-9.03	55	0.82	
60	-0.84	77.95	0.37	79.4	0.57	78.1	-0.04	78.9	-0.69	78.05	-3.04	76.25	-3.56	77.6	-2.55	72.2	-9.13	60	0.82	
65	-0.84	85.5	0.47	86.6	0.44	86.55	-0.24	86.1	-0.96	85.6	-3.18	83.75	-3.63	85.1	-2.97	79.5	-9.27	65	0.82	
70	-0.84	92.7	0.46	94.5	0.23	94.4	-0.54	94.05	-1.37	93.15	-3.52	91.25	-3.91	92.55	-3.44	87.75	-9.59	70	0.82	
75	-0.84	100.25	0.42	102.1	-0.04	103.55	-0.9	101.75	-1.85	100.85	-4.04	98.7	-4.27	100.2	-3.95	95.35	-10.04	75	0.82	
80	-0.84	108.25	0.34	109.25	-0.43	111.1	-1.25	108.95	-2.41	108.35	-4.84	106.7	-4.86	107.85	-4.38	102.9	-10.6	80	0.82	
85	-0.84	115.6	0.21	117.4	-0.91	118.75	-1.64	116.6	-3.01	116.05	-5.75	114.2	-5.51	114.85	-4.73	110.95	-11.15	85	0.82	
90	-0.84	123.75	0.07	125.3	-1.44	126.3	-2.08	124.25	-3.6	124	-6.76	122.2	-6.16	122.4	-4.85	118.5	-11.42	90	0.82	
95	-0.84	130.95	-0.13	132.9	-2.02	133.85	-2.53	132.3	-4.23	131.95	-7.55	130.4	-6.59	129.9	-4.67	126	-11.24	95	0.82	
100	-0.84	138.95	-0.34	140.45	-2.58	141.25	-3.03	140.35	-4.68	139.55	-7.74	138.05	-6.58	138.1	-4.22	133.35	-10.58	100	0.82	
105	-0.84	146.1	-0.58	148.65	-2.97	148.75	-3.48	147.9	-4.86	147.1	-7.15	145.75	-5.95	145.75	-3.5	141.05	-9.68	105	0.82	
110	-0.84	154.1	-0.82	156.2	-3.25	156.15	-3.73	155.45	-4.59	154.6	-5.97	153.2	-5.02	153.25	-2.72	148.65	-8.72	110	0.82	
115	-0.84	162.35	-1.03	163.15	-3.33	163.3	-3.79	163	-4.13	162.05	-4.65	161.85	-3.93	161.2	-2.01	156.25	-7.83	115	0.82	
120	-0.84	169.8	-1.25	171.8	-3.27	170.95	-3.57	170.6	-3.63	169.5	-3.63	168.9	-3.07	168.8	-1.45	163.75	-7.07	120	0.82	
125	-0.84	177.85	-1.47	179	-3.19	179.1	-3.32	178.2	-3.36	177.75	-2.98	176.9	-2.41	176.3	-1.01	171.3	-6.47	125	0.82	
130	-0.84	185.35	-1.71	186.5	-3.21	186.6	-3.2	185.4	-3.64	185.45	-3.05	185.5	-2.17	183.8	-0.72	179.05	-6.01	130	0.82	
135	-0.84	192.85	-1.94	194	-3.35	194.1	-3.32	193.4	-4.57	193.85	-4.06	192.7	-2.31	191.3	-0.52	186.55	-5.65	135	0.82	
140	-0.84	200.35	-2.2	202.05	-3.53	202.05	-3.76	201.1	-6.47	201.05	-5.87	200.15	-2.78	198.6	-0.37	194.2	-5.43	140	0.82	
145	-0.84	208.3	-2.45	209.25	-3.73	209.2	-4.34	208.6	-9.26	209.7	-8.97	208.05	-3.54	206.35	-0.25	201.65	-5.24	145	0.82	
150	-0.84	215.85	-2.56	216.8	-3.67	216.95	-4.88	216.1	-11.13	216.7	-10.65	215.6	-4.29	214.35	-0.08	209.15	-5.09	150	0.82	
155	-0.84	223.85	-2.69	224.35	-3.37	224.45	-4.87	223.7	-9.09	224.2	-8.12	223.6	-4.58	222.6	0.13	216.75	-4.88	155	0.82	
160	-0.84	231.55	-2.68	232.3	-2.73	231.8	-4.19	231.35	-6.07	232.5	-4.7	231.55	-4.14	229.9	0.36	224.75	-4.63	160	0.82	
165	-0.84	238.65	-2.57	239.95	-2.02	239.95	-3.15	239.4	-3.76	240.05	-2.55	239.05	-3.22	237.5	0.61	232.2	-4.35	165	0.82	
170	-0.84	246.2	-2.42	247.6	-1.31	247.2	-2.17	246.95	-2.34	247.55	-1.21	247	-2.36	245	0.87	240.6	-3.96	170	0.82	
175	-0.84	254.6	-2.21	254.7	-0.74	255.25	-1.38	254.55	-1.55	255.1	-0.49	254.4	-1.65	253	1.08	248.1	-3.52	175	0.82	
180	-0.84	262.1	-1.99	262.2	-0.38	263.05	-0.96	262.05	-1.33	263.25	-0.34	262.6	-1.27	260	1.22	255.6	-3.13	180	0.82	
185	-0.84	269.55	-1.85	270.15	-0.17	270.6	-0.89	269.4	-1.64	270.25	-0.63	269.75	-1.21	267.95	1.31	263.1	-2.73	185	0.82	
190	-0.84	277.1	-1.69	277.65	-0.12	278.1	-1.14	277.45	-2.55	277.7	-1.44	277.95	-1.36	276.4	1.34	270.65	-2.36	190	0.82	
195	-0.84	284.65	-1.58	285.2	-0.26	285.7	-1.71	285	-4.11	285.2	-2.71	286.1	-1.54	283.4	1.34	278.7	-1.99	195	0.82	
200	-0.84	292.2	-1.49	292.8	-0.48	293.55	-2.64	292.55	-6.42	293.25	-4.44	293.6	-1.67	292	1.26	286.35	-1.63	200	0.82	
205	-0.84	300.15	-1.43	300.35	-0.74	300.85	-3.45	300.15	-9.24	300.85	-5.89	301.1	-1.58	300.75	1.17	293.9	-1.32	205	0.82	
210	-0.84	308.1	-1.28	307.95	-0.97	308.95	-3.92	307.15	-9.96	308.5	-6.06	308.65	-1.3	307.9	1.09	301.4	-1.1	210	0.82	
215	-0.84	315.5	-1.14	315.45	-1.08	316.55	-3.6	315.1	-7.22	315.65	-4.74	316.25	-0.95	315.45	0.96	308.85	-0.94	215	0.82	
220	-0.84	323.2	-1	323.45	-1.05	324.2	-2.72	322.45	-4.52	323.6	-3.06	323.4	-0.65	322.9	0.84	316.15	-0.87	220	0.82	
225	-0.84	331.35	-0.85	330.95	-0.93	331.7	-1.72	330.85	-2.55	331.15	-1.82	331.55	-0.46	331.25	0.68	324.35	-0.92	225	0.82	
230	-0.84	338.95	-0.74	338.5	-0.75	339.2	-0.93	338.35	-1.53	338.75	-1.01	339.15	-0.48	339.35	0.53	331.8	-1.12	230	0.82	
235	-0.84	346.55	-0.68	346.35	-0.58	346.75	-0.49	345.9	-1.26	345.7	-0.72	346.3	-0.65	346.95	0.36	339.5	-1.47	235	0.82	
240	-0.84	352.75	-0.64	353.05	-0.5	353.05	-0.37	353	-1.39	353	-0.73	353.2	-0.86	352.9	0.27	346.65	-1.91	240	0.82	
245	-0.84	355	-0.63	355	-0.51	355	-0.37	355	-1.42	355	-0.74	355	-0.83	355	0.28	352.95	-2.35	245	0.82	
250	-0.84	360	-0.62	360	-0.4	360	-0.41	360	-2.03	360	-1.08	360	-1.23	360	0.14	355	-2.33	250	0.82	
255	-0.84															360	-3.24	255	0.82	
260	-0.84																	260	0.82	
265	-0.84																	265	0.82	
270	-0.84																	270	0.82	
275	-0.84																	275	0.82	
280	-0.84																	280	0.82	
285	-0.84																	285	0.82	
290	-0.84																	290	0.82	
295	-0.84																	295	0.82	
300	-0.84																	300	0.82	
305	-0.84																	305	0.82	
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315	-0.84																	315	0.82	
320	-0.84																	320	0.82	
325	-0.84																	325	0.82	
330	-0.84																	330	0.82	
335	-0.84																	335	0.82	
340	-0.84																	340	0.82	
345	-0.84																	345	0.82	
350	-0.84																	350	0.82	
355	-0.84																	355	0.82	
360	-0.84																	360	0.82	

2440 Theta Ang	0		20		40		60		80		100		120		140		160		180		
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)	
0	-0.61	0	-0.39	0	-0.15	0	-0.21	0	-1.77	0	-0.86	0	-1.16	0	0.13	0	-3.27	0	0.86		
5	-0.61	0	-0.39	0.05	-0.16	0	-0.21	0.05	-1.77	0	-0.86	0	-1.16	0.05	0.11	0	-3.27	0	0.86		
10	-0.61	1.65	-0.41	3.4	-0.13	2.5	-0.21	2.9	-1.97	0.8	-0.9	1.6	-1.14	2.55	0.06	0.15	-3.24	10	0.86		
15	-0.61	7.4	-0.41	10.85	-0.09	10.3	-0.45	9.95	-2.63	6.15	-1.27	7.6	-1.64	9.4	-0.17	4.3	-3.71	15	0.86		
20	-0.61	15.05	-0.36	18.35	-0.02	17.8	-0.66	18.1	-2.97	14.55	-1.99	15.25	-2.19	17.05	-0.42	11.65	-4.68	20	0.86		
25	-0.61	22.5	-0.29	26.2	0.09	25.35	-0.72	25.3	-2.7	22.65	-2.68	22.7	-2.69	24	-0.68	19.75	-5.79	25	0.86		
30	-0.61	30.05	-0.19	33.95	0.23	32.45	-0.63	32.95	-2.01	30.7	-3.15	30.2	-3.14	32	-0.94	27.2	-6.87	30	0.86		
35	-0.61	38.05	-0.04	41.5	0.39	40.25	-0.42	41	-1.26	38.4	-3.4	38.2	-3.47	39.2	-1.14	34.7	-7.81	35	0.86		
40	-0.61	45.6	0.12	49	0.51	48.35	-0.17	48.25	-0.74	46.5	-3.34	45.8	-3.62	46.9	-1.38	42.2	-8.53	40	0.86		
45	-0.61	53.1	0.29	56.45	0.59	55.85	0	55.85	-0.4	54.85	-3.15	53	-3.62	54.85	-1.63	49.7	-8.92	45	0.86		
50	-0.61	61.35	0.44	63.9	0.65	63.3	0.07	63.8	-0.3	62.35	-2.91	60.45	-3.5	62.3	-1.9	57.15	-9.04	50	0.86		
55	-0.61	69.8	0.55	71.4	0.62	70.8	0.05	71.3	-0.3	70.4	-2.67	68.65	-3.27	69.55	-2.15	65.1	-9.03	55	0.86		
60	-0.61	77.95	0.65	79.4	0.56	78.1	-0.09	78.9	-0.46	78.05	-2.55	76.25	-3.23	77.6	-2.51	72.2	-9.02	60	0.86		
65	-0.61	85.5	0.68	86.6	0.45	86.55	-0.27	86.1	-0.72	85.6	-2.57	83.75	-3.28	85.1	-2.89	79.5	-9.09	65	0.86		
70	-0.61	92.7	0.7	94.5	0.3	94.4	-0.56	94.05	-1.07	93.15	-2.81	91.25	-3.47	92.55	-3.32	87.75	-9.34	70	0.86		
75	-0.61	100.25	0.64	102.1	0.06	103.55	-0.89	101.75	-1.54	100.85	-3.34	98.7	-3.82	100.2	-3.85	95.35	-9.79	75	0.86		
80	-0.61	108.25	0.57	109.25	-0.27	111.1	-1.22	108.95	-2.07	108.35	-4.11	106.7	-4.42	107.85	-4.41	102.9	-10.4	80	0.86		
85	-0.61	115.6	0.47	117.4	-0.66	118.75	-1.58	116.6	-2.72	116.05	-5.05	114.2	-5.14	114.85	-4.84	110.95	-11.08	85	0.86		
90	-0.61	123.75	0.32	125.3	-1.16	126.3	-1.99	124.25	-3.43	124	-6.28	122.2	-5.99	122.4	-5.08	118.5	-11.57	90	0.86		
95	-0.61	130.95	0.14	132.9	-1.66	133.85	-2.42	132.3	-4.1	131.95	-7.35	130.4	-6.67	129.9	-4.99	126	-11.58	95	0.86		
100	-0.61	138.95	-0.06	140.45	-2.26	141.25	-2.87	140.35	-4.62	139.55	-7.84	138.05	-6.87	138.1	-4.55	133.35	-11.02	100	0.86		
105	-0.61	146.1	-0.26	148.65	-2.72	148.75	-3.26	147.9	-4.81	147.1	-7.46	145.75	-6.32	145.75	-3.82	141.05	-10.08	105	0.86		
110	-0.61	154.1	-0.48	156.2	-3.01	156.15	-3.52	155.45	-4.53	154.6	-6.21	153.2	-5.3	153.25	-2.96	148.65	-9.02	110	0.86		
115	-0.61	162.35	-0.7	163.15	-3.13	163.3	-3.55	163	-3.88	162.05	-4.73	161.85	-4.03	161.2	-2.14	156.25	-8.02	115	0.86		
120	-0.61	169.8	-0.89	171.8	-3.09	170.95	-3.36	170.6	-3.36	169.5	-3.56	168.9	-3.04	168.8	-1.51	163.75	-7.15	120	0.86		
125	-0.61	177.85	-1.09	179	-3.04	179.1	-3.19	178.2	-3.07	177.75	-2.8	176.9	-2.3	176.3	-0.97	171.3	-6.47	125	0.86		
130	-0.61	185.35	-1.26	186.5	-3.01	186.6	-3.09	185.4	-3.33	185.45	-2.8	185.5	-1.96	183.8	-0.63	179.05	-5.95	130	0.86		
135	-0.61	192.85	-1.48	194	-3.1	194.1	-3.2	193.4	-4.3	193.85	-3.75	192.7	-2.06	191.3	-0.42	186.55	-5.56	135	0.86		
140	-0.61	200.35	-1.65	202.05	-3.28	202.05	-3.59	201.1	-6.14	201.05	-5.55	200.15	-2.52	198.6	-0.25	194.2	-5.28	140	0.86		
145	-0.61	208.3	-1.89	209.25	-3.43	209.2	-4.08	208.6	-8.95	209.7	-8.76	208.05	-3.33	206.35	-0.13	201.65	-5.08	145	0.86		
150	-0.61	215.85	-2.05	216.8	-3.4	216.95	-4.56	216.1	-10.93	216.7	-10.77	215.6	-4.12	214.35	0	209.15	-4.94	150	0.86		
155	-0.61	223.85	-2.16	224.35	-3.15	224.45	-4.52	223.7	-9.02	224.2	-8.23	223.6	-4.45	222.6	0.17	216.75	-4.78	155	0.86		
160	-0.61	231.55	-2.18	232.3	-2.62	231.8	-3.9	231.35	-5.99	232.5	-4.69	231.55	-4.04	229.9	0.43	224.75	-4.58	160	0.86		
165	-0.61	238.65	-2.15	239.95	-1.92	239.95	-2.94	239.4	-3.67	240.05	-2.51	239.05	-3.09	237.5	0.65	232.2	-4.32	165	0.86		
170	-0.61	246.2	-2.02	247.6	-1.24	247.2	-2	246.95	-2.27	247.55	-1.13	247	-2.15	245	0.93	240.6	-3.94	170	0.86		
175	-0.61	254.6	-1.85	254.7	-0.67	255.25	-1.22	254.55	-1.49	255.1	-0.41	254.4	-1.41	253	1.12	248.1	-3.59	175	0.86		
180	-0.61	262.1	-1.69	262.2	-0.27	263.05	-0.79	262.05	-1.26	263.25	-0.18	262.6	-1.05	260	1.32	255.6	-3.15	180	0.86		
185	-0.61	269.55	-1.51	270.15	-0.01	270.6	-0.68	269.4	-1.53	270.25	-0.5	269.75	-0.95	267.95	1.42	263.1	-2.79	185	0.86		
190	-0.61	277.1	-1.4	277.65	0.05	278.1	-0.92	277.45	-2.44	277.7	-1.29	277.95	-1.1	276.4	1.45	270.65	-2.4	190	0.86		
195	-0.61	284.65	-1.29	285.2	-0.06	285.7	-1.47	285	-3.89	285.2	-2.54	286.1	-1.31	283.4	1.44	278.7	-1.98	195	0.86		
200	-0.61	292.2	-1.17	292.8	-0.28	293.55	-2.33	292.55	-6.08	293.25	-4.25	293.6	-1.43	292	1.35	286.35	-1.63	200	0.86		
205	-0.61	300.15	-1.04	300.35	-0.5	300.85	-3.14	300.15	-8.63	300.85	-5.73	301.1	-1.44	300.75	1.27	293.9	-1.29	205	0.86		
210	-0.61	308.1	-0.92	307.95	-0.71	308.95	-3.64	307.15	-9.34	308.5	-5.97	308.65	-1.21	307.9	1.16	301.4	-1.06	210	0.86		
215	-0.61	315.5	-0.76	315.45	-0.86	316.55	-3.37	315.1	-6.92	315.65	-4.68	316.25	-0.89	315.45	1.05	308.85	-0.87	215	0.86		
220	-0.61	323.2	-0.64	323.45	-0.81	324.2	-2.54	322.45	-4.41	323.6	-2.98	323.4	-0.58	322.9	0.94	316.15	-0.78	220	0.86		
225	-0.61	331.35	-0.52	330.95	-0.69	331.7	-1.55	330.85	-2.42	331.15	-1.7	331.55	-0.37	331.25	0.75	324.35	-0.83	225	0.86		
230	-0.61	338.95	-0.45	338.5	-0.49	339.2	-0.79	338.35	-1.43	338.75	-0.88	339.15	-0.36	339.35	0.6	331.8	-1.04	230	0.86		
235	-0.61	346.55	-0.41	346.35	-0.32	346.75	-0.34	345.9	-1.13	345.7	-0.56	346.3	-0.53	346.95	0.44	339.5	-1.44	235	0.86		
240	-0.61	352.75	-0.38	353.05	-0.28	353.05	-0.17	353	-1.22	353	-0.54	353.2	-0.72	352.9	0.32	346.65	-1.92	240	0.86		
245	-0.61	355	-0.36	355	-0.27	355	-0.17	355	-1.22	355	-0.56	355	-0.72	355	0.31	352.95	-2.35	245	0.86		
250	-0.61	360	-0.39	360	-0.15	360	-0.21	360	-1.77	360	-0.86	360	-1.16	360	0.13	355	-2.33	250	0.86		
255	-0.61															360	-3.27	255	0.86		
260	-0.61																	260	0.86		
265	-0.61																	265	0.86		
270	-0.61																	270	0.86		
275	-0.61																	275	0.86		
280	-0.61																	280	0.86		
285	-0.61																	285	0.86		
290	-0.61																	290	0.86		
295	-0.61																	295	0.86		
300	-0.61																	300	0.86		
305	-0.61																	305	0.86		
310	-0.61																	310	0.86		
315	-0.61																	315	0.86		
320	-0.61																	320	0.86		
325	-0.61																	325	0.86		
330	-0.61																	330	0.86		
335	-0.61																	335	0.86		
340	-0.61																	340	0.86		
345	-0.61																	345	0.86		
350	-0.61																	350	0.86		
3																					

2450 Theta Ang	0		20		40		60		80		100		120		140		160		180	
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)
0	-0.58	0	-0.31	0	-0.08	0	-0.04	0	-1.65	0	-0.83	0	-1.23	0	-0.13	0	-3.55	0	0.73	
5	-0.58	0	-0.31	0.05	-0.06	0	-0.04	0.05	-1.66	0	-0.83	0	-1.23	0.05	-0.12	0	-3.55	5	0.73	
10	-0.58	1.65	-0.35	3.4	-0.05	2.5	-0.09	2.9	-1.8	0.8	-0.85	1.6	-1.23	2.55	-0.19	0.15	-3.58	10	0.73	
15	-0.58	7.4	-0.34	10.85	0.03	10.3	-0.3	9.95	-2.49	6.15	-1.25	7.6	-1.77	9.4	-0.44	4.3	-9.57	15	0.73	
20	-0.58	15.05	-0.26	18.35	0.06	17.8	-0.55	18.1	-2.91	14.55	-2.14	15.25	-2.41	17.05	-0.78	11.65	-5.02	20	0.73	
25	-0.58	22.5	-0.17	26.2	0.12	25.35	-0.71	25.3	-2.72	22.65	-2.97	22.7	-3.01	24	-1	19.75	-6.22	25	0.73	
30	-0.58	30.05	0	33.95	0.21	32.45	-0.7	32.95	-2.06	30.7	-3.46	30.2	-3.54	32	-1.25	27.2	-7.37	30	0.73	
35	-0.58	38.05	0.1	41.5	0.33	40.25	-0.53	41	-1.33	38.4	-3.65	38.2	-3.75	39.2	-1.46	34.7	-8.35	35	0.73	
40	-0.58	45.6	0.28	49	0.39	48.35	-0.34	48.25	-0.77	46.5	-3.44	45.8	-3.8	46.9	-1.61	42.2	-9.01	40	0.73	
45	-0.58	53.1	0.42	56.45	0.47	55.85	-0.15	55.85	-0.38	54.85	-3.06	53	-3.63	54.85	-1.8	49.7	-9.29	45	0.73	
50	-0.58	61.35	0.57	63.9	0.46	63.3	-0.07	63.8	-0.22	62.35	-2.63	60.45	-3.38	62.3	-2.02	57.15	-9.26	50	0.73	
55	-0.58	69.8	0.7	71.4	0.47	70.8	-0.05	71.3	-0.19	70.4	-2.25	68.65	-3.1	69.55	-2.21	65.1	-9.11	55	0.73	
60	-0.58	77.95	0.74	79.4	0.38	78.1	-0.15	78.9	-0.29	78.05	-2.11	76.25	-2.98	77.6	-2.51	72.2	-8.97	60	0.73	
65	-0.58	85.5	0.75	86.6	0.31	86.55	-0.28	86.1	-0.5	85.6	-2.1	83.75	-2.95	85.1	-2.85	79.5	-8.96	65	0.73	
70	-0.58	92.7	0.74	94.5	0.19	94.4	-0.57	94.05	-0.84	93.15	-2.33	91.25	-3.09	92.55	-3.27	87.75	-9.18	70	0.73	
75	-0.58	100.25	0.7	102.1	0.01	103.55	-0.93	101.75	-1.33	100.85	-2.77	98.7	-3.41	100.2	-3.7	95.35	-9.61	75	0.73	
80	-0.58	108.25	0.58	109.25	-0.23	111.1	-1.27	108.95	-1.84	108.35	-3.48	106.7	-4.02	107.85	-4.31	102.9	-10.26	80	0.73	
85	-0.58	115.6	0.5	117.4	-0.59	118.75	-1.64	116.6	-2.48	116.05	-4.47	114.2	-4.78	114.85	-4.81	110.95	-11.08	85	0.73	
90	-0.58	123.75	0.36	125.3	-1.05	126.3	-2.06	124.25	-3.23	124	-5.72	122.2	-5.7	122.4	-5.23	118.5	-11.83	90	0.73	
95	-0.58	130.95	0.21	132.9	-1.49	133.85	-2.47	132.3	-4.07	131.95	-7.01	130.4	-6.6	129.9	-5.35	126	-12.14	95	0.73	
100	-0.58	138.95	0.01	140.45	-2.03	141.25	-2.88	140.35	-4.68	139.55	-7.96	138.05	-7.04	138.1	-4.99	133.35	-11.75	100	0.73	
105	-0.58	146.1	-0.18	148.65	-2.57	148.75	-3.22	147.9	-4.94	147.1	-7.89	145.75	-6.74	145.75	-4.26	141.05	-10.78	105	0.73	
110	-0.58	154.1	-0.36	156.2	-2.86	156.15	-3.43	155.45	-4.57	154.6	-6.57	153.2	-5.68	153.25	-3.32	148.65	-9.59	110	0.73	
115	-0.58	162.35	-0.57	163.15	-3	163.3	-3.44	163	-3.9	162.05	-4.99	161.85	-4.32	161.2	-2.41	156.25	-8.45	115	0.73	
120	-0.58	169.8	-0.74	171.8	-3.02	170.95	-3.28	170.6	-3.23	169.5	-3.65	168.9	-3.21	168.8	-1.7	163.75	-7.46	120	0.73	
125	-0.58	177.85	-0.91	179	-3.01	179.1	-3.09	178.2	-2.86	177.75	-2.76	176.9	-2.3	176.3	-1.09	171.3	-6.67	125	0.73	
130	-0.58	185.35	-1.05	186.5	-2.99	186.6	-3.02	185.4	-3.1	185.45	-2.66	185.5	-1.88	183.8	-0.71	179.05	-6.07	130	0.73	
135	-0.58	192.85	-1.25	194	-3.03	194.1	-3.17	193.4	-4	193.85	-3.45	192.7	-1.94	191.3	-0.44	186.55	-5.61	135	0.73	
140	-0.58	200.35	-1.38	202.05	-3.17	202.05	-3.55	201.1	-5.88	201.05	-5.25	200.15	-2.39	198.6	-0.28	194.2	-5.29	140	0.73	
145	-0.58	208.3	-1.54	209.25	-3.34	209.2	-4.05	208.6	-8.78	209.7	-8.52	208.05	-3.23	206.35	-0.19	201.65	-5.12	145	0.73	
150	-0.58	215.85	-1.74	216.8	-3.33	216.95	-4.41	216.1	-11.03	216.7	-11.01	215.6	-4.05	214.35	-0.04	209.15	-4.97	150	0.73	
155	-0.58	223.85	-1.83	224.35	-3.09	224.45	-4.38	223.7	-9.19	224.2	-8.61	223.6	-4.49	222.6	0.11	216.75	-4.84	155	0.73	
160	-0.58	231.55	-1.88	232.3	-2.54	231.8	-3.75	231.35	-6.01	232.5	-4.93	231.55	-4.06	229.9	0.31	224.75	-4.67	160	0.73	
165	-0.58	238.65	-1.86	239.95	-1.87	239.95	-2.79	239.4	-3.71	240.05	-2.61	239.05	-3.1	237.5	0.56	232.2	-4.39	165	0.73	
170	-0.58	246.2	-1.79	247.6	-1.22	247.2	-1.89	246.95	-2.27	247.55	-1.14	247	-2.11	245	0.82	240.6	-4.07	170	0.73	
175	-0.58	254.6	-1.65	254.7	-0.63	255.25	-1.11	254.55	-1.48	255.1	-0.4	254.4	-1.38	253	1.03	248.1	-3.77	175	0.73	
180	-0.58	262.1	-1.5	262.2	-0.22	263.05	-0.7	262.05	-1.27	263.25	-0.19	262.6	-0.96	260	1.23	255.6	-3.4	180	0.73	
185	-0.58	269.55	-1.39	270.15	0.02	270.6	-0.56	269.4	-1.46	270.25	-0.48	269.75	-0.84	267.95	1.34	263.1	-2.98	185	0.73	
190	-0.58	277.1	-1.25	277.65	0.11	278.1	-0.78	277.45	-2.3	277.7	-1.21	277.95	-1	276.4	1.39	270.65	-2.62	190	0.73	
195	-0.58	284.65	-1.15	285.2	0	285.7	-1.3	285	-3.7	285.2	-2.47	286.1	-1.23	283.4	1.37	278.7	-2.15	195	0.73	
200	-0.58	292.2	-1.03	292.8	-0.2	293.55	-2.13	292.55	-5.74	293.25	-4.18	293.6	-1.42	292	1.3	286.35	-1.77	200	0.73	
205	-0.58	300.15	-0.87	300.35	-0.45	300.85	-2.96	300.15	-8.17	300.85	-5.74	301.1	-1.45	300.75	1.2	293.9	-1.43	205	0.73	
210	-0.58	308.1	-0.79	307.95	-0.66	308.95	-3.5	307.15	-8.99	308.5	-6.07	308.65	-1.26	307.9	1.09	301.4	-1.16	210	0.73	
215	-0.58	315.5	-0.65	315.45	-0.8	316.55	-3.32	315.1	-6.88	315.65	-4.86	316.25	-0.96	315.45	1	308.85	-0.96	215	0.73	
220	-0.58	323.2	-0.53	323.45	-0.78	324.2	-2.53	322.45	-4.44	323.6	-3.08	323.4	-0.64	322.9	0.84	316.15	-0.89	220	0.73	
225	-0.58	331.35	-0.43	330.95	-0.63	331.7	-1.55	330.85	-2.48	331.15	-1.71	331.55	-0.39	331.25	0.67	324.35	-0.97	225	0.73	
230	-0.58	338.95	-0.36	338.5	-0.46	339.2	-0.75	338.35	-1.42	338.75	-0.84	339.15	-0.38	339.35	0.51	331.8	-1.17	230	0.73	
235	-0.58	346.55	-0.34	346.35	-0.3	346.75	-0.26	345.9	-1.07	345.7	-0.46	346.3	-0.51	346.95	0.3	339.5	-1.58	235	0.73	
240	-0.58	352.75	-0.3	353.05	-0.17	353.05	-0.06	353	-1.11	353	-0.47	353.2	-0.74	352.9	0.15	346.65	-2.07	240	0.73	
245	-0.58	355	-0.32	355	-0.19	355	-0.07	355	-1.12	355	-0.44	355	-0.76	355	0.13	352.95	-2.59	245	0.73	
250	-0.58	360	-0.31	360	-0.08	360	-0.04	360	-1.65	360	-0.83	360	-1.23	360	-0.13	355	-2.6	250	0.73	
255	-0.58															360	-3.55	255	0.73	
260	-0.58																	260	0.73	
265	-0.58																	265	0.73	
270	-0.58																	270	0.73	
275	-0.58																	275	0.73	
280	-0.58																	280	0.73	
285	-0.58																	285	0.73	
290	-0.58																	290	0.73	
295	-0.58																	295	0.73	
300	-0.58																	300	0.73	
305	-0.58																	305	0.73	
310	-0.58																	310	0.73	
315	-0.58																	315	0.73	
320	-0.58																	320	0.73	
325	-0.58																	325	0.73	
330	-0.58																	330	0.73	
335	-0.58																	335	0.73	
340	-0.58																	340	0.73	
345	-0.58																	345	0.73	
350	-0.58																	350	0.73	
355	-0.58																	355	0.73	
360	-0.58																	360	0.73	

2460 Theta Ang	0		20		40		60		80		100		120		140		160		180		
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)	
0	-0.51	0	-0.22	0	0.12	0	0.17	0	-1.37	0	-0.73	0	-1.28	0	-0.34	0	-3.88	0	0.59		
5	-0.51	0	-0.22	0.05	0.1	0	0.17	0.05	-1.4	0	-0.73	0	-1.28	0.05	-0.33	0	-3.88	5	0.59		
10	-0.51	1.65	-0.23	3.4	0.11	2.5	0.14	2.9	-1.54	0.8	-0.76	1.6	-1.29	2.55	-0.39	0.15	-3.87	10	0.59		
15	-0.51	7.4	-0.18	10.85	0.16	10.3	-0.13	9.95	-2.22	6.15	-1.21	7.6	-1.83	9.4	-0.69	4.3	-4.27	15	0.59		
20	-0.51	15.05	-0.11	18.35	0.17	17.8	-0.41	18.1	-2.77	14.55	-2.2	15.25	-2.56	17.05	-1.01	11.65	-5.41	20	0.59		
25	-0.51	22.5	0	26.2	0.2	25.35	-0.64	25.3	-2.65	22.65	-3.17	22.7	-3.23	24	-1.27	19.75	-6.64	25	0.59		
30	-0.51	30.05	0.17	33.95	0.24	32.45	-0.72	32.95	-2.04	30.7	-3.73	30.2	-3.68	32	-1.47	27.2	-7.81	30	0.59		
35	-0.51	38.05	0.33	41.5	0.28	40.25	-0.6	41	-1.27	38.4	-3.71	38.2	-3.83	39.2	-1.6	34.7	-8.76	35	0.59		
40	-0.51	45.6	0.46	49	0.32	48.35	-0.39	48.25	-0.64	46.5	-3.31	45.8	-3.71	46.9	-1.69	42.2	-9.3	40	0.59		
45	-0.51	53.1	0.61	56.45	0.36	55.85	-0.14	55.85	-0.22	54.85	-2.74	53	-3.53	54.85	-1.82	49.7	-9.39	45	0.59		
50	-0.51	61.35	0.77	63.9	0.4	63.3	-0.01	63.8	-0.03	62.35	-2.25	60.45	-3.16	62.3	-1.93	57.15	-9.18	50	0.59		
55	-0.51	69.8	0.81	71.4	0.4	70.8	0.02	71.3	0.03	70.4	-1.83	68.65	-2.84	69.55	-2.13	65.1	-8.87	55	0.59		
60	-0.51	77.95	0.85	79.4	0.38	78.1	-0.01	78.9	-0.05	78.05	-1.62	76.25	-2.64	77.6	-2.31	72.2	-8.63	60	0.59		
65	-0.51	85.5	0.86	86.6	0.33	86.55	-0.18	86.1	-0.2	85.6	-1.6	83.75	-2.6	85.1	-2.59	79.5	-8.54	65	0.59		
70	-0.51	92.7	0.83	94.5	0.23	94.4	-0.46	94.05	-0.52	93.15	-1.77	91.25	-2.65	92.55	-2.98	87.75	-8.68	70	0.59		
75	-0.51	100.25	0.79	102.1	0.08	103.55	-0.78	101.75	-0.97	100.85	-2.25	98.7	-3.01	100.2	-3.4	95.35	-9.08	75	0.59		
80	-0.51	108.25	0.7	109.25	-0.15	111.1	-1.12	108.95	-1.47	108.35	-2.88	106.7	-3.54	107.85	-3.94	102.9	-9.75	80	0.59		
85	-0.51	115.6	0.57	117.4	-0.47	118.75	-1.52	116.6	-2.13	116.05	-3.83	114.2	-4.25	114.85	-4.53	110.95	-10.67	85	0.59		
90	-0.51	123.75	0.46	125.3	-0.87	126.3	-1.96	124.25	-2.91	124	-5.04	122.2	-5.25	122.4	-5.09	118.5	-11.62	90	0.59		
95	-0.51	130.95	0.33	132.9	-1.31	133.85	-2.42	132.3	-3.79	131.95	-6.43	130.4	-6.3	129.9	-5.43	126	-12.3	95	0.59		
100	-0.51	138.95	0.15	140.45	-1.81	141.25	-2.85	140.35	-4.58	139.55	-7.68	138.05	-7.03	138.1	-5.27	133.35	-12.22	100	0.59		
105	-0.51	146.1	-0.02	148.65	-2.28	148.75	-3.16	147.9	-4.95	147.1	-8.01	145.75	-7.02	145.75	-4.62	141.05	-11.37	105	0.59		
110	-0.51	154.1	-0.22	156.2	-2.6	156.15	-3.31	155.45	-4.68	154.6	-6.95	153.2	-6.03	153.25	-3.68	148.65	-10.13	110	0.59		
115	-0.51	162.35	-0.41	163.15	-2.83	163.3	-3.25	163	-3.85	162.05	-5.23	161.85	-4.53	161.2	-2.66	156.25	-8.87	115	0.59		
120	-0.51	169.8	-0.58	171.8	-2.91	170.95	-3.04	170.6	-3.04	169.5	-3.71	168.9	-3.3	168.8	-1.84	163.75	-7.75	120	0.59		
125	-0.51	177.85	-0.73	179	-2.91	179.1	-2.83	178.2	-2.55	177.75	-2.65	176.9	-2.33	176.3	-1.21	171.3	-6.87	125	0.59		
130	-0.51	185.35	-0.88	186.5	-2.88	186.6	-2.81	185.4	-2.64	185.45	-2.42	185.5	-1.8	183.8	-0.75	179.05	-6.19	130	0.59		
135	-0.51	192.85	-1.01	194	-2.95	194.1	-2.99	193.4	-3.51	193.85	-3.1	192.7	-1.75	191.3	-0.47	186.55	-5.7	135	0.59		
140	-0.51	200.35	-1.13	202.05	-3.1	202.05	-3.38	201.1	-5.35	201.05	-4.8	200.15	-2.16	198.6	-0.25	194.2	-5.34	140	0.59		
145	-0.51	208.3	-1.29	209.25	-3.25	209.2	-3.86	208.6	-8.36	209.7	-8.05	208.05	-2.98	206.35	-0.15	201.65	-5.1	145	0.59		
150	-0.51	215.85	-1.38	216.8	-3.24	216.95	-4.27	216.1	-11.06	216.7	-11.04	215.6	-3.88	214.35	-0.02	209.15	-4.92	150	0.59		
155	-0.51	223.85	-1.48	224.35	-2.96	224.45	-4.16	223.7	-9.42	224.2	-9.02	223.6	-4.36	222.6	0.14	216.75	-4.8	155	0.59		
160	-0.51	231.55	-1.52	232.3	-2.44	231.8	-3.52	231.35	-6.12	232.5	-5.1	231.55	-4.04	229.9	0.36	224.75	-4.58	160	0.59		
165	-0.51	238.65	-1.5	239.95	-1.78	239.95	-2.56	239.4	-3.64	240.05	-2.69	239.05	-3.08	237.5	0.57	232.2	-4.4	165	0.59		
170	-0.51	246.2	-1.47	247.6	-1.07	247.2	-1.64	246.95	-2.16	247.55	-1.17	247	-2.12	245	0.86	240.6	-4.09	170	0.59		
175	-0.51	254.6	-1.36	254.7	-0.51	255.25	-0.87	254.55	-1.35	255.1	-0.36	254.4	-1.29	253	1.09	248.1	-3.7	175	0.59		
180	-0.51	262.1	-1.25	262.2	-0.09	263.05	-0.43	262.05	-1.03	263.25	-0.15	262.6	-0.88	260	1.25	255.6	-3.41	180	0.59		
185	-0.51	269.55	-1.14	270.15	0.18	270.6	-0.3	269.4	-1.24	270.25	-0.42	269.75	-0.74	267.95	1.39	263.1	-3.02	185	0.59		
190	-0.51	277.1	-1.06	277.65	0.25	278.1	-0.5	277.45	-2.05	277.7	-1.16	277.95	-0.93	276.4	1.42	270.65	-2.61	190	0.59		
195	-0.51	284.65	-0.96	285.2	0.13	285.7	-1.07	285	-3.42	285.2	-2.39	286.1	-1.16	283.4	1.42	278.7	-2.17	195	0.59		
200	-0.51	292.2	-0.85	292.8	-0.1	293.55	-1.87	292.55	-5.37	293.25	-4.15	293.6	-1.37	292	1.34	286.35	-1.79	200	0.59		
205	-0.51	300.15	-0.73	300.35	-0.35	300.85	-2.74	300.15	-7.72	300.85	-5.75	301.1	-1.41	300.75	1.22	293.9	-1.44	205	0.59		
210	-0.51	308.1	-0.64	307.95	-0.6	308.95	-3.38	307.15	-8.73	308.5	-6.14	308.65	-1.25	307.9	1.1	301.4	-1.17	210	0.59		
215	-0.51	315.5	-0.54	315.45	-0.72	316.55	-3.3	315.1	-6.84	315.65	-4.87	316.25	-0.96	315.45	0.95	308.85	-1.03	215	0.59		
220	-0.51	323.2	-0.43	323.45	-0.72	324.2	-2.53	322.45	-4.42	323.6	-3	323.4	-0.61	322.9	0.81	316.15	-0.98	220	0.59		
225	-0.51	331.35	-0.33	330.95	-0.56	331.7	-1.51	330.85	-2.37	331.15	-1.63	331.55	-0.38	331.25	0.59	324.35	-1.09	225	0.59		
230	-0.51	338.95	-0.29	338.5	-0.36	339.2	-0.62	338.35	-1.27	338.75	-0.7	339.15	-0.34	339.35	0.4	331.8	-1.3	230	0.59		
235	-0.51	346.55	-0.24	346.35	-0.15	346.75	-0.09	345.9	-0.84	345.7	-0.29	346.3	-0.5	346.95	0.16	339.5	-1.75	235	0.59		
240	-0.51	352.75	-0.26	353.05	-0.04	353.05	0.15	353	-0.88	353	-0.33	353.2	-0.72	352.9	-0.04	346.65	-2.26	240	0.59		
245	-0.51	355	-0.2	355	-0.02	355	0.14	355	-0.87	355	-0.32	355	-0.73	355	-0.06	352.95	-2.85	245	0.59		
250	-0.51	360	-0.22	360	0.12	360	0.17	360	-1.37	360	-0.73	360	-1.28	360	-0.34	355	-2.84	250	0.59		
255	-0.51															360	-3.88	255	0.59		
260	-0.51																	260	0.59		
265	-0.51																	265	0.59		
270	-0.51																	270	0.59		
275	-0.51																	275	0.59		
280	-0.51																	280	0.59		
285	-0.51																	285	0.59		
290	-0.51																	290	0.59		
295	-0.51																	295	0.59		
300	-0.51																	300	0.59		
305	-0.51																	305	0.59		
310	-0.51																	310	0.59		
315	-0.51																	315	0.59		
320	-0.51																	320	0.59		
325	-0.51																	325	0.59		
330	-0.51																	330	0.59		
335	-0.51																	335	0.59		
340	-0.51																	340	0.59		
345	-0.51																	345	0.59		
350	-0.51																	350	0.59		
355	-0																				

2470 Theta Ang	0		20		40		60		80		100		120		140		160		180		
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)	
0	-0.49	0	-0.19	0	0.21	0	0.31	0	-1.31	0	-0.8	0	-1.46	0	-0.59	0	-4.22	0	0.39		
5	-0.49	0	-0.19	0.05	0.21	0	0.31	0.05	-1.31	0	-0.8	0	-1.46	0.05	-0.59	0	-4.22	5	0.39		
10	-0.49	1.65	-0.18	3.4	0.19	2.5	0.27	2.9	-1.4	0.8	-0.81	1.6	-1.46	2.55	-0.61	0.15	-4.23	10	0.39		
15	-0.49	7.4	-0.11	10.85	0.25	10.3	0	9.95	-2.18	6.15	-1.29	7.6	-2.04	9.4	-0.89	4.3	-4.61	15	0.39		
20	-0.49	15.05	-0.04	18.35	0.2	17.8	-0.43	18.1	-2.81	14.55	-2.43	15.25	-2.77	17.05	-1.23	11.65	-5.75	20	0.39		
25	-0.49	22.5	0.12	26.2	0.19	25.35	-0.73	25.3	-2.68	22.65	-3.41	22.7	-3.41	24	-1.44	19.75	-7.02	25	0.39		
30	-0.49	30.05	0.29	33.95	0.16	32.45	-0.87	32.95	-2.02	30.7	-3.84	30.2	-3.81	32	-1.62	27.2	-8.16	30	0.39		
35	-0.49	38.05	0.44	41.5	0.2	40.25	-0.74	41	-1.17	38.4	-3.68	38.2	-3.93	39.2	-1.72	34.7	-9.01	35	0.39		
40	-0.49	45.6	0.6	49	0.21	48.35	-0.47	48.25	-0.53	46.5	-3.13	45.8	-3.78	46.9	-1.8	42.2	-9.39	40	0.39		
45	-0.49	53.1	0.73	56.45	0.29	55.85	-0.21	55.85	-0.11	54.85	-2.47	53	-3.41	54.85	-1.86	49.7	-9.3	45	0.39		
50	-0.49	61.35	0.84	63.9	0.35	63.3	-0.02	63.8	0.1	62.35	-1.94	60.45	-3.03	62.3	-1.97	57.15	-8.94	50	0.39		
55	-0.49	69.8	0.9	71.4	0.42	70.8	0.09	71.3	0.15	70.4	-1.49	68.65	-2.66	69.55	-2.07	65.1	-8.52	55	0.39		
60	-0.49	77.95	0.92	79.4	0.42	78.1	0.07	78.9	0.08	78.05	-1.24	76.25	-2.44	77.6	-2.22	72.2	-8.18	60	0.39		
65	-0.49	85.5	0.9	86.6	0.42	86.55	-0.05	86.1	-0.1	85.6	-1.23	83.75	-2.33	85.1	-2.38	79.5	-8.02	65	0.39		
70	-0.49	92.7	0.87	94.5	0.35	94.4	-0.3	94.05	-0.37	93.15	-1.44	91.25	-2.36	92.55	-2.64	87.75	-8.09	70	0.39		
75	-0.49	100.25	0.81	102.1	0.21	103.55	-0.6	101.75	-0.76	100.85	-1.81	98.7	-2.67	100.2	-3.08	95.35	-8.41	75	0.39		
80	-0.49	108.25	0.71	109.25	0	111.1	-0.97	108.95	-1.25	108.35	-2.42	106.7	-3.15	107.85	-3.6	102.9	-9.03	80	0.39		
85	-0.49	115.6	0.62	117.4	-0.29	118.75	-1.39	116.6	-1.89	116.05	-3.35	114.2	-3.81	114.85	-4.23	110.95	-9.94	85	0.39		
90	-0.49	123.75	0.5	125.3	-0.69	126.3	-1.86	124.25	-2.64	124	-4.54	122.2	-4.81	122.4	-4.79	118.5	-10.99	90	0.39		
95	-0.49	130.95	0.35	132.9	-1.11	133.85	-2.36	132.3	-3.59	131.95	-5.92	130.4	-5.99	129.9	-5.33	126	-11.93	95	0.39		
100	-0.49	138.95	0.2	140.45	-1.62	141.25	-2.85	140.35	-4.53	139.55	-7.4	138.05	-6.96	138.1	-5.44	133.35	-12.28	100	0.39		
105	-0.49	146.1	0.04	148.65	-2.09	148.75	-3.19	147.9	-5.06	147.1	-8.13	145.75	-7.21	145.75	-4.9	141.05	-11.75	105	0.39		
110	-0.49	154.1	-0.14	156.2	-2.38	156.15	-3.32	155.45	-4.87	154.6	-7.36	153.2	-6.43	153.25	-4.04	148.65	-10.59	110	0.39		
115	-0.49	162.35	-0.32	163.15	-2.63	163.3	-3.25	163	-4.01	162.05	-5.57	161.85	-4.9	161.2	-2.95	156.25	-9.29	115	0.39		
120	-0.49	169.8	-0.47	171.8	-2.7	170.95	-2.97	170.6	-3.04	169.5	-3.95	168.9	-3.51	168.8	-2.09	163.75	-8.09	120	0.39		
125	-0.49	177.85	-0.64	179	-2.72	179.1	-2.72	178.2	-2.44	177.75	-2.72	176.9	-2.42	176.3	-1.39	171.3	-7.13	125	0.39		
130	-0.49	185.35	-0.75	186.5	-2.79	186.6	-2.63	185.4	-2.43	185.45	-2.32	185.5	-1.82	183.8	-0.88	179.05	-6.39	130	0.39		
135	-0.49	192.85	-0.89	194	-2.88	194.1	-2.84	193.4	-3.18	193.85	-2.92	192.7	-1.74	191.3	-0.54	186.55	-5.82	135	0.39		
140	-0.49	200.35	-0.97	202.05	-3.04	202.05	-3.25	201.1	-4.94	201.05	-4.52	200.15	-2.06	198.6	-0.32	194.2	-5.46	140	0.39		
145	-0.49	208.3	-1.09	209.25	-3.21	209.2	-3.78	208.6	-7.84	209.7	-7.61	208.05	-2.83	206.35	-0.16	201.65	-5.18	145	0.39		
150	-0.49	215.85	-1.18	216.8	-3.2	216.95	-4.16	216.1	-10.96	216.7	-10.91	215.6	-3.75	214.35	-0.05	209.15	-4.99	150	0.39		
155	-0.49	223.85	-1.29	224.35	-2.95	224.45	-4.08	223.7	-9.84	224.2	-9.54	223.6	-4.29	222.6	0.16	216.75	-4.8	155	0.39		
160	-0.49	231.55	-1.27	232.3	-2.43	231.8	-3.42	231.35	-6.43	232.5	-5.55	231.55	-4.02	229.9	0.36	224.75	-4.59	160	0.39		
165	-0.49	238.65	-1.3	239.95	-1.74	239.95	-2.45	239.4	-3.8	240.05	-3.01	239.05	-3.1	237.5	0.63	232.2	-4.36	165	0.39		
170	-0.49	246.2	-1.23	247.6	-1.03	247.2	-1.48	246.95	-2.23	247.55	-1.4	247	-2.15	245	0.88	240.6	-4.03	170	0.39		
175	-0.49	254.6	-1.13	254.7	-0.45	255.25	-0.73	254.55	-1.34	255.1	-0.51	254.4	-1.33	253	1.11	248.1	-3.74	175	0.39		
180	-0.49	262.1	-1.04	262.2	-0.03	263.05	-0.3	262.05	-0.99	263.25	-0.25	262.6	-0.89	260	1.3	255.6	-3.36	180	0.39		
185	-0.49	269.55	-0.95	270.15	0.27	270.6	-0.12	269.4	-1.18	270.25	-0.5	269.75	-0.75	267.95	1.44	263.1	-2.94	185	0.39		
190	-0.49	277.1	-0.88	277.65	0.32	278.1	-0.31	277.45	-1.95	277.7	-1.22	277.95	-0.89	276.4	1.48	270.65	-2.57	190	0.39		
195	-0.49	284.65	-0.81	285.2	0.21	285.7	-0.84	285	-3.29	285.2	-2.48	286.1	-1.15	283.4	1.45	278.7	-2.1	195	0.39		
200	-0.49	292.2	-0.73	292.8	-0.02	293.55	-1.73	292.55	-5.16	293.25	-4.25	293.6	-1.34	292	1.4	286.35	-1.75	200	0.39		
205	-0.49	300.15	-0.65	300.35	-0.33	300.85	-2.66	300.15	-7.52	300.85	-5.86	301.1	-1.45	300.75	1.25	293.9	-1.44	205	0.39		
210	-0.49	308.1	-0.58	307.95	-0.62	308.95	-3.41	307.15	-8.65	308.5	-6.22	308.65	-1.29	307.9	1.1	301.4	-1.2	210	0.39		
215	-0.49	315.5	-0.46	315.45	-0.76	316.55	-3.36	315.1	-6.88	315.65	-4.87	316.25	-0.99	315.45	0.93	308.85	-1.08	215	0.39		
220	-0.49	323.2	-0.38	323.45	-0.75	324.2	-2.57	322.45	-4.42	323.6	-2.95	323.4	-0.69	322.9	0.73	316.15	-1.07	220	0.39		
225	-0.49	331.35	-0.32	330.95	-0.57	331.7	-1.5	330.85	-2.33	331.15	-1.56	331.55	-0.43	331.25	0.48	324.35	-1.22	225	0.39		
230	-0.49	338.95	-0.27	338.5	-0.33	339.2	-0.55	338.35	-1.19	338.75	-0.63	339.15	-0.4	339.35	0.23	331.8	-1.53	230	0.39		
235	-0.49	346.55	-0.2	346.35	-0.07	346.75	0.03	345.9	-0.73	345.7	-0.23	346.3	-0.59	346.95	-0.05	339.5	-1.95	235	0.39		
240	-0.49	352.75	-0.18	353.05	0.09	353.05	0.28	353	-0.73	353	-0.29	353.2	-0.87	352.9	-0.28	346.65	-2.57	240	0.39		
245	-0.49	355	-0.18	355	0.06	355	0.28	355	-0.75	355	-0.28	355	-0.9	355	-0.29	352.95	-3.15	245	0.39		
250	-0.49	360	-0.19	360	0.21	360	0.31	360	-1.31	360	-0.8	360	-1.46	360	-0.59	355	-3.16	250	0.39		
255	-0.49															360	-4.22	255	0.39		
260	-0.49																	260	0.39		
265	-0.49																	265	0.39		
270	-0.49																	270	0.39		
275	-0.49																	275	0.39		
280	-0.49																	280	0.39		
285	-0.49																	285	0.39		
290	-0.49																	290	0.39		
295	-0.49																	295	0.39		
300	-0.49																	300	0.39		
305	-0.49																	305	0.39		
310	-0.49																	310	0.39		
315	-0.49																	315	0.39		
320	-0.49																	320	0.39		
325	-0.49																	325	0.39		
330	-0.49																	330	0.39		
335	-0.49																	335	0.39		
340	-0.49																	340	0.39		
345	-0.49																	345	0.39		
350	-0.49																	350	0.39		
355	-0																				

2480 Theta Ang	0		20		40		60		80		100		120		140		160		180	
	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response (dB)
0	-0.45	0	-0.1	0	0.27	0	0.33	0	-1.36	0	-0.96	0	-1.68	0	-0.74	0	-4.45	0	0.17	
5	-0.45	0	-0.1	0.05	0.26	0	0.33	0.05	-1.34	0	-0.96	0	-1.68	0.05	-0.75	0	-4.45	5	0.17	
10	-0.45	1.65	-0.1	3.4	0.29	2.5	0.33	2.9	-1.45	0.8	-0.96	1.6	-1.66	2.55	-0.79	0.15	-4.45	10	0.17	
15	-0.45	7.4	-0.05	10.85	0.25	10.3	-0.01	9.95	-2.26	6.15	-1.48	7.6	-2.23	9.4	-1.1	4.3	-4.84	15	0.17	
20	-0.45	15.05	0.07	18.35	0.19	17.8	-0.48	18.1	-2.86	14.55	-2.6	15.25	-2.97	17.05	-1.36	11.65	-5.98	20	0.17	
25	-0.45	22.5	0.19	26.2	0.12	25.35	-0.88	25.3	-2.71	22.65	-3.56	22.7	-3.59	24	-1.63	19.75	-7.22	25	0.17	
30	-0.45	30.05	0.33	33.95	0.08	32.45	-1.02	32.95	-2.03	30.7	-3.93	30.2	-3.95	32	-1.79	27.2	-8.32	30	0.17	
35	-0.45	38.05	0.49	41.5	0.09	40.25	-0.89	41	-1.17	38.4	-3.63	38.2	-4.05	39.2	-1.88	34.7	-9.08	35	0.17	
40	-0.45	45.6	0.64	49	0.16	48.35	-0.58	48.25	-0.53	46.5	-3.03	45.8	-3.81	46.9	-1.93	42.2	-9.32	40	0.17	
45	-0.45	53.1	0.78	56.45	0.29	55.85	-0.28	55.85	-0.1	54.85	-2.3	53	-3.46	54.85	-1.98	49.7	-9.11	45	0.17	
50	-0.45	61.35	0.88	63.9	0.4	63.3	-0.07	63.8	0.1	62.35	-1.71	60.45	-3.01	62.3	-2.02	57.15	-8.64	50	0.17	
55	-0.45	69.8	0.94	71.4	0.49	70.8	0.07	71.3	0.16	70.4	-1.29	68.65	-2.54	69.55	-2.06	65.1	-8.14	55	0.17	
60	-0.45	77.95	0.94	79.4	0.57	78.1	0.07	78.9	0.08	78.05	-1.02	76.25	-2.26	77.6	-2.08	72.2	-7.74	60	0.17	
65	-0.45	85.5	0.94	86.6	0.57	86.55	-0.02	86.1	-0.1	85.6	-0.98	83.75	-2.09	85.1	-2.24	79.5	-7.52	65	0.17	
70	-0.45	92.7	0.85	94.5	0.5	94.4	-0.25	94.05	-0.35	93.15	-1.14	91.25	-2.14	92.55	-2.43	87.75	-7.53	70	0.17	
75	-0.45	100.25	0.81	102.1	0.38	103.55	-0.58	101.75	-0.72	100.85	-1.49	98.7	-2.36	100.2	-2.76	95.35	-7.79	75	0.17	
80	-0.45	108.25	0.72	109.25	0.17	111.1	-0.9	108.95	-1.16	108.35	-2.12	106.7	-2.78	107.85	-3.25	102.9	-8.33	80	0.17	
85	-0.45	115.6	0.59	117.4	-0.12	118.75	-1.31	116.6	-1.78	116.05	-2.96	114.2	-3.45	114.85	-3.85	110.95	-9.17	85	0.17	
90	-0.45	123.75	0.47	125.3	-0.53	126.3	-1.77	124.25	-2.51	124	-4.15	122.2	-4.48	122.4	-4.6	118.5	-10.19	90	0.17	
95	-0.45	130.95	0.35	132.9	-0.95	133.85	-2.31	132.3	-3.43	131.95	-5.55	130.4	-5.71	129.9	-5.23	126	-11.23	95	0.17	
100	-0.45	138.95	0.2	140.45	-1.5	141.25	-2.85	140.35	-4.45	139.55	-7.15	138.05	-6.83	138.1	-5.46	133.35	-11.9	100	0.17	
105	-0.45	146.1	0.07	148.65	-1.97	148.75	-3.3	147.9	-5.13	147.1	-8.14	145.75	-7.36	145.75	-6.48	141.05	-11.77	105	0.17	
110	-0.45	154.1	-0.1	156.2	-2.3	156.15	-3.49	155.45	-5.11	154.6	-7.68	153.2	-6.79	153.25	-4.3	148.65	-10.85	110	0.17	
115	-0.45	162.35	-0.24	163.15	-2.51	163.3	-3.34	163	-4.3	162.05	-5.97	161.85	-5.25	161.2	-3.24	156.25	-9.6	115	0.17	
120	-0.45	169.8	-0.4	171.8	-2.58	170.95	-3.05	170.6	-3.24	169.5	-4.26	168.9	-3.75	168.8	-2.33	163.75	-8.37	120	0.17	
125	-0.45	177.85	-0.54	179	-2.58	179.1	-2.71	178.2	-2.48	177.75	-2.84	176.9	-2.57	176.3	-1.55	171.3	-7.34	125	0.17	
130	-0.45	185.35	-0.64	186.5	-2.64	186.6	-2.59	185.4	-2.34	185.45	-2.42	185.5	-1.91	183.8	-0.99	179.05	-6.54	130	0.17	
135	-0.45	192.85	-0.77	194	-2.8	194.1	-2.73	193.4	-2.97	193.85	-2.88	192.7	-1.7	191.3	-0.61	186.55	-5.93	135	0.17	
140	-0.45	200.35	-0.9	202.05	-2.97	202.05	-3.11	201.1	-4.57	201.05	-4.32	200.15	-1.99	198.6	-0.34	194.2	-5.5	140	0.17	
145	-0.45	208.3	-1	209.25	-3.18	209.2	-3.65	208.6	-7.34	209.7	-7.25	208.05	-2.7	206.35	-0.18	201.65	-5.18	145	0.17	
150	-0.45	215.85	-1.08	216.8	-3.2	216.95	-4.03	216.1	-10.61	216.7	-10.62	215.6	-3.55	214.35	-0.01	209.15	-4.94	150	0.17	
155	-0.45	223.85	-1.15	224.35	-2.99	224.45	-3.98	223.7	-10.19	224.2	-9.96	223.6	-4.14	222.6	0.13	216.75	-4.75	155	0.17	
160	-0.45	231.55	-1.14	232.3	-2.48	231.8	-3.36	231.35	-6.85	232.5	-5.96	231.55	-3.95	229.9	0.37	224.75	-4.53	160	0.17	
165	-0.45	238.65	-1.13	239.95	-1.78	239.95	-2.4	239.4	-4.06	240.05	-3.32	239.05	-3.03	237.5	0.63	232.2	-4.31	165	0.17	
170	-0.45	246.2	-1.12	247.6	-1.07	247.2	-1.48	246.95	-2.4	247.55	-1.65	247	-2.14	245	0.93	240.6	-3.99	170	0.17	
175	-0.45	254.6	-1.03	254.7	-0.48	255.25	-0.7	254.55	-1.48	255.1	-0.75	254.4	-1.33	253	1.17	248.1	-3.65	175	0.17	
180	-0.45	262.1	-0.91	262.2	-0.01	263.05	-0.22	262.05	-1.1	263.25	-0.43	262.6	-0.83	260	1.36	255.6	-3.27	180	0.17	
185	-0.45	269.55	-0.87	270.15	0.24	270.6	-0.06	269.4	-1.26	270.25	-0.67	269.75	-0.74	267.95	1.51	263.1	-2.86	185	0.17	
190	-0.45	277.1	-0.78	277.65	0.3	278.1	-0.28	277.45	-1.96	277.7	-1.35	277.95	-0.8	276.4	1.59	270.65	-2.42	190	0.17	
195	-0.45	284.65	-0.69	285.2	0.2	285.7	-0.82	285	-3.28	285.2	-2.62	286.1	-1.04	283.4	1.56	278.7	-2	195	0.17	
200	-0.45	292.2	-0.66	292.8	-0.05	293.55	-1.73	292.55	-5.13	293.25	-4.37	293.6	-1.27	292	1.49	286.35	-1.65	200	0.17	
205	-0.45	300.15	-0.59	300.35	-0.36	300.85	-2.67	300.15	-7.43	300.85	-5.88	301.1	-1.35	300.75	1.33	293.9	-1.35	205	0.17	
210	-0.45	308.1	-0.48	307.95	-0.63	308.95	-3.48	307.15	-8.58	308.5	-6.17	308.65	-1.23	307.9	1.17	301.4	-1.14	210	0.17	
215	-0.45	315.5	-0.39	315.45	-0.78	316.55	-3.37	315.1	-6.87	315.65	-4.83	316.25	-0.98	315.45	0.96	308.85	-1.08	215	0.17	
220	-0.45	323.2	-0.31	323.45	-0.76	324.2	-2.58	322.45	-4.44	323.6	-2.9	323.4	-0.7	322.9	0.75	316.15	-1.11	220	0.17	
225	-0.45	331.35	-0.25	330.95	-0.54	331.7	-1.49	330.85	-2.35	331.15	-1.56	331.55	-0.51	331.25	0.46	324.35	-1.31	225	0.17	
230	-0.45	338.95	-0.19	338.5	-0.26	339.2	-0.5	338.35	-1.16	338.75	-0.65	339.15	-0.53	339.35	0.13	331.8	-1.63	230	0.17	
235	-0.45	346.55	-0.17	346.35	0.01	346.75	0.08	345.9	-0.71	345.7	-0.29	346.3	-0.7	346.95	-0.14	339.5	-2.12	235	0.17	
240	-0.45	352.75	-0.14	353.05	0.17	353.05	0.35	353	-0.75	353	-0.4	353.2	-1.03	352.9	-0.41	346.65	-2.7	240	0.17	
245	-0.45	355	-0.11	355	0.19	355	0.36	355	-0.75	355	-0.38	355	-1.04	355	-0.41	352.95	-3.38	245	0.17	
250	-0.45	360	-0.1	360	0.27	360	0.33	360	-1.36	360	-0.96	360	-1.68	360	-0.74	355	-3.37	250	0.17	
255	-0.45															360	-4.45	255	0.17	
260	-0.45																	260	0.17	
265	-0.45																	265	0.17	
270	-0.45																	270	0.17	
275	-0.45																	275	0.17	
280	-0.45																	280	0.17	
285	-0.45																	285	0.17	
290	-0.45																	290	0.17	
295	-0.45																	295	0.17	
300	-0.45																	300	0.17	
305	-0.45																	305	0.17	
310	-0.45																	310	0.17	
315	-0.45																	315	0.17	
320	-0.45																	320	0.17	
325	-0.45																	325	0.17	
330	-0.45																	330	0.17	
335	-0.45																	335	0.17	
340	-0.45																	340	0.17	
345	-0.45																	345	0.17	
350	-0.45																	350	0.17	
355	-0.45																	355	0.17	
360	-0.45																	360	0.17	

2490 Theta Ang	0		20		40		60		80		100		120		140		160		180	
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)
0	-0.19	0	0.15	0	0.46	0	0.46	0	-1.27	0	-0.96	0	-1.65	0	-0.69	0	-4.46	0	0.18	
5	-0.19	0	0.15	0.05	0.45	0	0.46	0.05	-1.26	0	-0.96	0	-1.65	0.05	-0.67	0	-4.46	5	0.18	
10	-0.19	1.65	0.17	3.4	0.46	2.5	0.45	2.9	-1.33	0.8	-1.01	1.6	-1.66	2.55	-0.68	0.15	-4.42	10	0.18	
15	-0.19	7.4	0.19	10.85	0.4	10.3	0.06	9.95	-2.13	6.15	-1.46	7.6	-2.14	9.4	-1.05	4.3	-4.7	15	0.18	
20	-0.19	15.05	0.3	18.35	0.31	17.8	-0.41	18.1	-2.67	14.55	-2.59	15.25	-2.87	17.05	-1.39	11.65	-5.91	20	0.18	
25	-0.19	22.5	0.44	26.2	0.22	25.35	-0.85	25.3	-2.53	22.65	-3.52	22.7	-3.58	24	-1.68	19.75	-7.15	25	0.18	
30	-0.19	30.05	0.58	33.95	0.2	32.45	-0.97	32.95	-1.86	30.7	-3.86	30.2	-3.91	32	-1.88	27.2	-8.22	30	0.18	
35	-0.19	38.05	0.7	41.5	0.24	40.25	-0.84	41	-1.03	38.4	-3.53	38.2	-4.01	39.2	-2.01	34.7	-8.92	35	0.18	
40	-0.19	45.6	0.88	49	0.32	48.35	-0.52	48.25	-0.39	46.5	-2.8	45.8	-3.7	46.9	-2.08	42.2	-9.07	40	0.18	
45	-0.19	53.1	1.02	56.45	0.44	55.85	-0.23	55.85	-0.02	54.85	-2.03	53	-3.28	54.85	-2.05	49.7	-8.76	45	0.18	
50	-0.19	61.35	1.09	63.9	0.6	63.3	-0.04	63.8	0.18	62.35	-1.38	60.45	-2.78	62.3	-2.01	57.15	-8.23	50	0.18	
55	-0.19	69.8	1.16	71.4	0.71	70.8	0.09	71.3	0.26	70.4	-0.84	68.65	-2.3	69.55	-2	65.1	-7.67	55	0.18	
60	-0.19	77.95	1.16	79.4	0.8	78.1	0.12	78.9	0.2	78.05	-0.6	76.25	-1.91	77.6	-2	72.2	-7.24	60	0.18	
65	-0.19	85.5	1.15	86.6	0.8	86.55	0.02	86.1	0.04	85.6	-0.55	83.75	-1.75	85.1	-2.04	79.5	-6.99	65	0.18	
70	-0.19	92.7	1.07	94.5	0.78	94.4	-0.19	94.05	-0.2	93.15	-0.66	91.25	-1.72	92.55	-2.17	87.75	-6.96	70	0.18	
75	-0.19	100.25	0.99	102.1	0.66	103.55	-0.48	101.75	-0.56	100.85	-1.02	98.7	-1.93	100.2	-2.45	95.35	-7.18	75	0.18	
80	-0.19	108.25	0.88	109.25	0.45	111.1	-0.77	108.95	-0.95	108.35	-1.65	106.7	-2.33	107.85	-2.9	102.9	-7.66	80	0.18	
85	-0.19	115.6	0.75	117.4	0.17	118.75	-1.17	116.6	-1.53	116.05	-2.47	114.2	-2.95	114.85	-3.45	110.95	-8.44	85	0.18	
90	-0.19	123.75	0.64	125.3	-0.19	126.3	-1.61	124.25	-2.24	124	-3.65	122.2	-3.92	122.4	-4.19	118.5	-9.4	90	0.18	
95	-0.19	130.95	0.49	132.9	-0.63	133.85	-2.13	132.3	-3.16	131.95	-5	130.4	-5.21	129.9	-4.95	126	-10.46	95	0.18	
100	-0.19	138.95	0.39	140.45	-1.14	141.25	-2.7	140.35	-4.17	139.55	-6.68	138.05	-6.53	138.1	-5.38	133.35	-11.35	100	0.18	
105	-0.19	146.1	0.25	148.65	-1.66	148.75	-3.15	147.9	-5.03	147.1	-7.94	145.75	-7.39	145.75	-5.25	141.05	-11.53	105	0.18	
110	-0.19	154.1	0.1	156.2	-1.98	156.15	-3.43	155.45	-5.08	154.6	-7.75	153.2	-6.94	153.25	-4.45	148.65	-10.89	110	0.18	
115	-0.19	162.35	-0.06	163.15	-2.23	163.3	-3.37	163	-4.37	162.05	-6.13	161.85	-5.41	161.2	-3.37	156.25	-9.73	115	0.18	
120	-0.19	169.8	-0.18	171.8	-2.32	170.95	-3.09	170.6	-3.31	169.5	-4.35	168.9	-3.82	168.8	-2.37	163.75	-8.47	120	0.18	
125	-0.19	177.85	-0.3	179	-2.31	179.1	-2.73	178.2	-2.53	177.75	-2.91	176.9	-2.55	176.3	-1.54	171.3	-7.38	125	0.18	
130	-0.19	185.35	-0.39	186.5	-2.34	186.6	-2.5	185.4	-2.27	185.45	-2.37	185.5	-1.79	183.8	-0.94	179.05	-6.48	130	0.18	
135	-0.19	192.85	-0.53	194	-2.47	194.1	-2.52	193.4	-2.76	193.85	-2.7	192.7	-1.57	191.3	-0.47	186.55	-5.78	135	0.18	
140	-0.19	200.35	-0.62	202.05	-2.66	202.05	-2.86	201.1	-4.22	201.05	-4.07	200.15	-1.82	198.6	-0.18	194.2	-5.29	140	0.18	
145	-0.19	208.3	-0.73	209.25	-2.87	209.2	-3.34	208.6	-6.77	209.7	-6.83	208.05	-2.45	206.35	0.01	201.65	-4.99	145	0.18	
150	-0.19	215.85	-0.82	216.8	-2.94	216.95	-3.72	216.1	-9.95	216.7	-10.17	215.6	-3.26	214.35	0.15	209.15	-4.7	150	0.18	
155	-0.19	223.85	-0.85	224.35	-2.78	224.45	-3.69	223.7	-10.14	224.2	-10.01	223.6	-3.83	222.6	0.36	216.75	-4.53	155	0.18	
160	-0.19	231.55	-0.91	232.3	-2.33	231.8	-3.11	231.35	-6.97	232.5	-6.21	231.55	-3.65	229.9	0.55	224.75	-4.3	160	0.18	
165	-0.19	238.65	-0.93	239.95	-1.7	239.95	-2.21	239.4	-4.19	240.05	-3.47	239.05	-2.84	237.5	0.81	232.2	-4.09	165	0.18	
170	-0.19	246.2	-0.89	247.6	-1	247.2	-1.35	246.95	-2.46	247.55	-1.77	247	-1.9	245	1.1	240.6	-3.82	170	0.18	
175	-0.19	254.6	-0.85	254.7	-0.42	255.25	-0.58	254.55	-1.51	255.1	-0.82	254.4	-1.08	253	1.36	248.1	-3.46	175	0.18	
180	-0.19	262.1	-0.78	262.2	0.03	263.05	-0.13	262.05	-1.11	263.25	-0.47	262.6	-0.58	260	1.58	255.6	-3.07	180	0.18	
185	-0.19	269.55	-0.65	270.15	0.3	270.6	0.01	269.4	-1.21	270.25	-0.66	269.75	-0.44	267.95	1.72	263.1	-2.6	185	0.18	
190	-0.19	277.1	-0.6	277.65	0.39	278.1	-0.19	277.45	-1.91	277.7	-1.31	277.95	-0.49	276.4	1.83	270.65	-2.16	190	0.18	
195	-0.19	284.65	-0.49	285.2	0.28	285.7	-0.75	285	-3.17	285.2	-2.46	286.1	-0.71	283.4	1.83	278.7	-1.71	195	0.18	
200	-0.19	292.2	-0.43	292.8	0.06	293.55	-1.62	292.55	-4.93	293.25	-4.11	293.6	-0.89	292	1.78	286.35	-1.32	200	0.18	
205	-0.19	300.15	-0.29	300.35	-0.24	300.85	-2.57	300.15	-7.12	300.85	-5.57	301.1	-1.03	300.75	1.6	293.9	-1.09	205	0.18	
210	-0.19	308.1	-0.2	307.95	-0.49	308.95	-3.31	307.15	-8.21	308.5	-5.85	308.65	-0.92	307.9	1.43	301.4	-0.9	210	0.18	
215	-0.19	315.5	-0.12	315.45	-0.6	316.55	-3.27	315.1	-6.61	315.65	-4.6	316.25	-0.74	315.45	1.21	308.85	-0.83	215	0.18	
220	-0.19	323.2	-0.05	323.45	-0.53	324.2	-2.37	322.45	-4.29	323.6	-2.86	323.4	-0.57	322.9	0.99	316.15	-0.91	220	0.18	
225	-0.19	331.35	0.03	330.95	-0.3	331.7	-1.25	330.85	-2.19	331.15	-1.49	331.55	-0.44	331.25	0.63	324.35	-1.09	225	0.18	
230	-0.19	338.95	0.06	338.5	-0.01	339.2	-0.31	338.35	-1.05	338.75	-0.63	339.15	-0.44	339.35	0.34	331.8	-1.45	230	0.18	
235	-0.19	346.55	0.1	346.35	0.23	346.75	0.32	345.9	-0.61	345.7	-0.26	346.3	-0.65	346.95	0.01	339.5	-1.94	235	0.18	
240	-0.19	352.75	0.13	353.05	0.39	353.05	0.54	353	-0.67	353	-0.4	353.2	-1.03	352.9	-0.3	346.65	-2.62	240	0.18	
245	-0.19	355	0.13	355	0.41	355	0.56	355	-0.66	355	-0.38	355	-1.03	355	-0.3	352.95	-3.3	245	0.18	
250	-0.19	360	0.15	360	0.46	360	0.46	360	-1.27	360	-0.96	360	-1.65	360	-0.69	355	-3.26	250	0.18	
255	-0.19															360	-4.46	255	0.18	
260	-0.19																	260	0.18	
265	-0.19																	265	0.18	
270	-0.19																	270	0.18	
275	-0.19																	275	0.18	
280	-0.19																	280	0.18	
285	-0.19																	285	0.18	
290	-0.19																	290	0.18	
295	-0.19																	295	0.18	
300	-0.19																	300	0.18	
305	-0.19																	305	0.18	
310	-0.19																	310	0.18	
315	-0.19																	315	0.18	
320	-0.19																	320	0.18	
325	-0.19																	325	0.18	
330	-0.19																	330	0.18	
335	-0.19																	335	0.18	
340	-0.19																	340	0.18	
345	-0.19																	345	0.18	
350	-0.19																	350	0.18	
355	-0.19																	355	0.18	
360	-0.19																	360	0.18	

2500 Theta Ang	0		20		40		60		80		100		120		140		160		180		
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)	
0	-0.18	0	0.19	0	0.45	0	0.32	0	-1.39	0	-1.16	0	-1.79	0	-0.81	0	-4.59	0	-0.01		
5	-0.18	0	0.19	0.05	0.42	0	0.32	0.05	-1.38	0	-1.16	0	-1.79	0.05	-0.78	0	-4.59	5	-0.01		
10	-0.18	1.65	0.21	3.4	0.42	2.5	0.35	2.9	-1.43	0.8	-1.18	1.6	-1.85	2.55	-0.78	0.15	-4.54	10	-0.01		
15	-0.18	7.4	0.24	10.85	0.34	10.3	-0.04	9.95	-2.11	6.15	-1.58	7.6	-2.32	9.4	-1.19	4.3	-4.84	15	-0.01		
20	-0.18	15.05	0.31	18.35	0.25	17.8	-0.55	18.1	-2.66	14.55	-2.72	15.25	-3.11	17.05	-1.67	11.65	-6.03	20	-0.01		
25	-0.18	22.5	0.45	26.2	0.14	25.35	-0.93	25.3	-2.58	22.65	-3.73	22.7	-3.82	24	-2.05	19.75	-7.28	25	-0.01		
30	-0.18	30.05	0.58	33.95	0.13	32.45	-1.11	32.95	-1.96	30.7	-4.03	30.2	-4.22	32	-2.29	27.2	-8.34	30	-0.01		
35	-0.18	38.05	0.76	41.5	0.15	40.25	-1.03	41	-1.17	38.4	-3.68	38.2	-4.25	39.2	-2.43	34.7	-8.96	35	-0.01		
40	-0.18	45.6	0.88	49	0.25	48.35	-0.71	48.25	-0.58	46.5	-2.83	45.8	-3.86	46.9	-2.46	42.2	-9	40	-0.01		
45	-0.18	53.1	1	56.45	0.39	55.85	-0.47	55.85	-0.19	54.85	-1.96	53	-3.3	54.85	-2.37	49.7	-8.59	45	-0.01		
50	-0.18	61.35	1.1	63.9	0.54	63.3	-0.26	63.8	0.05	62.35	-1.23	60.45	-2.7	62.3	-2.23	57.15	-8	50	-0.01		
55	-0.18	69.8	1.15	71.4	0.65	70.8	-0.15	71.3	0.13	70.4	-0.66	68.65	-2.16	69.55	-2.09	65.1	-7.41	55	-0.01		
60	-0.18	77.95	1.14	79.4	0.76	78.1	-0.13	78.9	0.1	78.05	-0.36	76.25	-1.8	77.6	-2.03	72.2	-6.98	60	-0.01		
65	-0.18	85.5	1.11	86.6	0.8	86.55	-0.19	86.1	-0.01	85.6	-0.27	83.75	-1.6	85.1	-2.01	79.5	-6.74	65	-0.01		
70	-0.18	92.7	1.02	94.5	0.75	94.4	-0.37	94.05	-0.22	93.15	-0.39	91.25	-1.52	92.55	-2.08	87.75	-6.71	70	-0.01		
75	-0.18	100.25	0.93	102.1	0.69	103.55	-0.63	101.75	-0.54	100.85	-0.77	98.7	-1.69	100.2	-2.35	95.35	-6.93	75	-0.01		
80	-0.18	108.25	0.84	109.25	0.51	111.1	-0.9	108.95	-0.98	108.35	-1.34	106.7	-2.08	107.85	-2.75	102.9	-7.39	80	-0.01		
85	-0.18	115.6	0.68	117.4	0.25	118.75	-1.25	116.6	-1.54	116.05	-2.15	114.2	-2.67	114.85	-3.32	110.95	-8.14	85	-0.01		
90	-0.18	123.75	0.6	125.3	-0.11	126.3	-1.66	124.25	-2.25	124	-3.29	122.2	-3.65	122.4	-4.08	118.5	-9.09	90	-0.01		
95	-0.18	130.95	0.47	132.9	-0.51	133.85	-2.13	132.3	-3.18	131.95	-4.79	130.4	-4.96	129.9	-4.92	126	-10.16	95	-0.01		
100	-0.18	138.95	0.36	140.45	-1.02	141.25	-2.71	140.35	-4.21	139.55	-6.46	138.05	-6.42	138.1	-5.48	133.35	-11.18	100	-0.01		
105	-0.18	146.1	0.22	148.65	-1.53	148.75	-3.18	147.9	-5.05	147.1	-7.93	145.75	-7.62	145.75	-5.53	141.05	-11.63	105	-0.01		
110	-0.18	154.1	0.06	156.2	-1.91	156.15	-3.54	155.45	-5.23	154.6	-7.96	153.2	-7.37	153.25	-4.9	148.65	-11.23	110	-0.01		
115	-0.18	162.35	-0.04	163.15	-2.18	163.3	-3.53	163	-4.58	162.05	-6.34	161.85	-5.82	161.2	-3.78	156.25	-10.15	115	-0.01		
120	-0.18	169.8	-0.18	171.8	-2.32	170.95	-3.34	170.6	-3.51	169.5	-4.56	168.9	-4.13	168.8	-2.71	163.75	-8.85	120	-0.01		
125	-0.18	177.85	-0.3	179	-2.35	179.1	-2.98	178.2	-2.71	177.75	-3.02	176.9	-2.73	176.3	-1.77	171.3	-7.67	125	-0.01		
130	-0.18	185.35	-0.42	186.5	-2.37	186.6	-2.7	185.4	-2.45	185.45	-2.46	185.5	-1.87	183.8	-1.08	179.05	-6.67	130	-0.01		
135	-0.18	192.85	-0.48	194	-2.4	194.1	-2.69	193.4	-2.85	193.85	-2.72	192.7	-1.58	191.3	-0.61	186.55	-5.88	135	-0.01		
140	-0.18	200.35	-0.56	202.05	-2.57	202.05	-2.92	201.1	-4.23	201.05	-3.97	200.15	-1.78	198.6	-0.24	194.2	-5.32	140	-0.01		
145	-0.18	208.3	-0.69	209.25	-2.75	209.2	-3.29	208.6	-6.57	209.7	-6.66	208.05	-2.43	206.35	-0.02	201.65	-4.95	145	-0.01		
150	-0.18	215.85	-0.78	216.8	-2.86	216.95	-3.57	216.1	-9.58	216.7	-9.93	215.6	-3.17	214.35	0.1	209.15	-4.69	150	-0.01		
155	-0.18	223.85	-0.82	224.35	-2.73	224.45	-3.54	223.7	-10.1	224.2	-10.13	223.6	-3.79	222.6	0.27	216.75	-4.48	155	-0.01		
160	-0.18	231.55	-0.93	232.3	-2.35	231.8	-3.07	231.35	-7.19	232.5	-6.47	231.55	-3.62	229.9	0.48	224.75	-4.36	160	-0.01		
165	-0.18	238.65	-0.95	239.95	-1.8	239.95	-2.25	239.4	-4.47	240.05	-3.75	239.05	-2.79	237.5	0.68	232.2	-4.19	165	-0.01		
170	-0.18	246.2	-0.95	247.6	-1.16	247.2	-1.41	246.95	-2.73	247.55	-1.93	247	-1.85	245	0.98	240.6	-3.95	170	-0.01		
175	-0.18	254.6	-0.91	254.7	-0.6	255.25	-0.7	254.55	-1.74	255.1	-0.97	254.4	-1.02	253	1.24	248.1	-3.64	175	-0.01		
180	-0.18	262.1	-0.86	262.2	-0.16	263.05	-0.29	262.05	-1.28	263.25	-0.59	262.6	-0.54	260	1.47	255.6	-3.21	180	-0.01		
185	-0.18	269.55	-0.74	270.15	0.1	270.6	-0.17	269.4	-1.36	270.25	-0.73	269.75	-0.34	267.95	1.63	263.1	-2.76	185	-0.01		
190	-0.18	277.1	-0.62	277.65	0.23	278.1	-0.35	277.45	-2	277.7	-1.34	277.95	-0.35	276.4	1.77	270.65	-2.28	190	-0.01		
195	-0.18	284.65	-0.52	285.2	0.11	285.7	-0.88	285	-3.17	285.2	-2.47	286.1	-0.57	283.4	1.81	278.7	-1.76	195	-0.01		
200	-0.18	292.2	-0.39	292.8	-0.05	293.55	-1.77	292.55	-4.88	293.25	-3.97	293.6	-0.73	292	1.77	286.35	-1.4	200	-0.01		
205	-0.18	300.15	-0.26	300.35	-0.31	300.85	-2.69	300.15	-6.88	300.85	-5.34	301.1	-0.88	300.75	1.63	293.9	-1.08	205	-0.01		
210	-0.18	308.1	-0.13	307.95	-0.51	308.95	-3.38	307.15	-7.96	308.5	-5.73	308.65	-0.87	307.9	1.46	301.4	-0.88	210	-0.01		
215	-0.18	315.5	-0.05	315.45	-0.57	316.55	-3.27	315.1	-6.63	315.65	-4.72	316.25	-0.73	315.45	1.28	308.85	-0.83	215	-0.01		
220	-0.18	323.2	0.04	323.45	-0.46	324.2	-2.37	322.45	-4.44	323.6	-3.03	323.4	-0.6	322.9	1.02	316.15	-0.86	220	-0.01		
225	-0.18	331.35	0.11	330.95	-0.27	331.7	-1.28	330.85	-2.44	331.15	-1.75	331.55	-0.46	331.25	0.72	324.35	-1.08	225	-0.01		
230	-0.18	338.95	0.13	338.5	0	339.2	-0.33	338.35	-1.27	338.75	-0.85	339.15	-0.52	339.35	0.37	331.8	-1.43	230	-0.01		
235	-0.18	346.55	0.17	346.35	0.25	346.75	0.24	345.9	-0.81	345.7	-0.45	346.3	-0.73	346.95	0.04	339.5	-1.96	235	-0.01		
240	-0.18	352.75	0.19	353.05	0.39	353.05	0.44	353	-0.81	353	-0.59	353.2	-1.14	352.9	-0.32	346.65	-2.6	240	-0.01		
245	-0.18	355	0.14	355	0.39	355	0.46	355	-0.83	355	-0.57	355	-1.16	355	-0.34	352.95	-3.36	245	-0.01		
250	-0.18	360	0.19	360	0.45	360	0.32	360	-1.39	360	-1.16	360	-1.79	360	-0.81	355	-3.37	250	-0.01		
255	-0.18															360	-4.59	255	-0.01		
260	-0.18																	260	-0.01		
265	-0.18																	265	-0.01		
270	-0.18																	270	-0.01		
275	-0.18																	275	-0.01		
280	-0.18																	280	-0.01		
285	-0.18																	285	-0.01		
290	-0.18																	290	-0.01		
295	-0.18																	295	-0.01		
300	-0.18																	300	-0.01		
305	-0.18																	305	-0.01		
310	-0.18																	310	-0.01		
315	-0.18																	315	-0.01		
320	-0.18																	320	-0.01		
325	-0.18																	325	-0.01		
330	-0.18																	330	-0.01		
335	-0.18																	335	-0.01		
340	-0.18																	340	-0.01		
345	-0.18																	345	-0.01		
350	-0.18																	350	-0.01		
3																					

2520 Theta Ang	0		20		40		60		80		100		120		140		160		180		
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)	
0	-0.49	0	-0.02	0	0.21	0	0.11	0	-1.38	0	-1.37	0	-2.15	0	-1.36	0	-5.15	0	-0.65		
5	-0.49	0	-0.02	0.05	0.21	0	0.11	0.05	-1.37	0	-1.37	0	-2.15	0.05	-1.39	0	-5.15	5	-0.65		
10	-0.49	1.65	-0.02	3.4	0.21	2.5	0.13	2.9	-1.41	0.8	-1.35	1.6	-2.18	2.55	-1.39	0.15	-5.19	10	-0.65		
15	-0.49	7.4	0.06	10.85	0.13	10.3	-0.25	9.95	-2.04	6.15	-1.73	7.6	-2.7	9.4	-1.85	4.3	-5.37	15	-0.65		
20	-0.49	15.05	0.16	18.35	0.04	17.8	-0.79	18.1	-2.68	14.55	-3.11	15.25	-3.8	17.05	-2.43	11.65	-6.56	20	-0.65		
25	-0.49	22.5	0.36	26.2	-0.06	25.35	-1.29	25.3	-2.75	22.65	-4.35	22.7	-4.51	24	-2.8	19.75	-7.79	25	-0.65		
30	-0.49	30.05	0.51	33.95	-0.1	32.45	-1.54	32.95	-2.26	30.7	-4.61	30.2	-4.84	32	-2.95	27.2	-8.65	30	-0.65		
35	-0.49	38.05	0.67	41.5	-0.11	40.25	-1.52	41	-1.51	38.4	-3.84	38.2	-4.55	39.2	-2.91	34.7	-8.89	35	-0.65		
40	-0.49	45.6	0.86	49	-0.05	48.35	-1.22	48.25	-0.83	46.5	-2.7	45.8	-3.82	46.9	-2.68	42.2	-8.54	40	-0.65		
45	-0.49	53.1	0.91	56.45	0.05	55.85	-0.89	55.85	-0.33	54.85	-1.54	53	-2.99	54.85	-2.38	49.7	-7.87	45	-0.65		
50	-0.49	61.35	0.99	63.9	0.17	63.3	-0.66	63.8	0.01	62.35	-0.75	60.45	-2.33	62.3	-2.05	57.15	-7.14	50	-0.65		
55	-0.49	69.8	1.01	71.4	0.31	70.8	-0.44	71.3	0.2	70.4	-0.14	68.65	-1.76	69.55	-1.82	65.1	-6.53	55	-0.65		
60	-0.49	77.95	0.97	79.4	0.45	78.1	-0.38	78.9	0.26	78.05	0.18	76.25	-1.4	77.6	-1.67	72.2	-6.13	60	-0.65		
65	-0.49	85.5	0.91	86.6	0.52	86.55	-0.41	86.1	0.21	85.6	0.29	83.75	-1.2	85.1	-1.62	79.5	-5.94	65	-0.65		
70	-0.49	92.7	0.79	94.5	0.55	94.4	-0.54	94.05	0.05	93.15	0.18	91.25	-1.17	92.55	-1.75	87.75	-5.99	70	-0.65		
75	-0.49	100.25	0.7	102.1	0.51	103.55	-0.78	101.75	-0.22	100.85	-0.14	98.7	-1.27	100.2	-1.97	95.35	-6.29	75	-0.65		
80	-0.49	108.25	0.58	109.25	0.39	111.1	-1.05	108.95	-0.68	108.35	-0.7	106.7	-1.62	107.85	-2.35	102.9	-6.82	80	-0.65		
85	-0.49	115.6	0.45	117.4	0.2	118.75	-1.37	116.6	-1.24	116.05	-1.49	114.2	-2.14	114.85	-2.92	110.95	-7.62	85	-0.65		
90	-0.49	123.75	0.34	125.3	-0.14	126.3	-1.77	124.25	-2.01	124	-2.61	122.2	-3.03	122.4	-3.67	118.5	-8.6	90	-0.65		
95	-0.49	130.95	0.23	132.9	-0.52	133.85	-2.25	132.3	-3.02	131.95	-4.08	130.4	-4.29	129.9	-4.58	126	-9.77	95	-0.65		
100	-0.49	138.95	0.08	140.45	-0.98	141.25	-2.74	140.35	-4.16	139.55	-5.98	138.05	-5.9	138.1	-5.5	133.35	-10.99	100	-0.65		
105	-0.49	146.1	-0.07	148.65	-1.47	148.75	-3.21	147.9	-5.2	147.1	-7.98	145.75	-7.71	145.75	-6.02	141.05	-11.85	105	-0.65		
110	-0.49	154.1	-0.23	156.2	-1.91	156.15	-3.54	155.45	-5.41	154.6	-8.61	153.2	-8.36	153.25	-5.76	148.65	-11.95	110	-0.65		
115	-0.49	162.35	-0.4	163.15	-2.22	163.3	-3.71	163	-4.75	162.05	-7.02	161.85	-6.92	161.2	-4.8	156.25	-11.19	115	-0.65		
120	-0.49	169.8	-0.57	171.8	-2.49	170.95	-3.59	170.6	-3.62	169.5	-4.84	168.9	-4.95	168.8	-3.62	163.75	-9.93	120	-0.65		
125	-0.49	177.85	-0.66	179	-2.58	179.1	-3.32	178.2	-2.74	177.75	-3.09	176.9	-3.23	176.3	-2.59	171.3	-8.66	125	-0.65		
130	-0.49	185.35	-0.78	186.5	-2.61	186.6	-3.13	185.4	-2.34	185.45	-2.28	185.5	-2.15	183.8	-1.73	179.05	-7.53	130	-0.65		
135	-0.49	192.85	-0.84	194	-2.7	194.1	-3.12	193.4	-2.68	193.85	-2.46	192.7	-1.71	191.3	-1.08	186.55	-6.61	135	-0.65		
140	-0.49	200.35	-0.88	202.05	-2.77	202.05	-3.28	201.1	-3.99	201.05	-3.58	200.15	-1.85	198.6	-0.66	194.2	-5.95	140	-0.65		
145	-0.49	208.3	-0.94	209.25	-2.86	209.2	-3.53	208.6	-6.24	209.7	-6.1	208.05	-2.45	206.35	-0.47	201.65	-5.47	145	-0.65		
150	-0.49	215.85	-0.97	216.8	-2.91	216.95	-3.73	216.1	-9.23	216.7	-9.46	215.6	-3.3	214.35	-0.25	209.15	-5.13	150	-0.65		
155	-0.49	223.85	-0.99	224.35	-2.77	224.45	-3.62	223.7	-10.1	224.2	-10.5	223.6	-4.02	222.6	-0.1	216.75	-4.98	155	-0.65		
160	-0.49	231.55	-1	232.3	-2.41	231.8	-3.08	231.35	-7.37	232.5	-6.86	231.55	-3.87	229.9	0.06	224.75	-4.86	160	-0.65		
165	-0.49	238.65	-1.03	239.95	-1.92	239.95	-2.28	239.4	-4.53	240.05	-4.02	239.05	-3.04	237.5	0.32	232.2	-4.72	165	-0.65		
170	-0.49	246.2	-1.04	247.6	-1.31	247.2	-1.47	246.95	-2.73	247.55	-2.04	247	-1.99	245	0.58	240.6	-4.49	170	-0.65		
175	-0.49	254.6	-1.04	254.7	-0.82	255.25	-0.8	254.55	-1.67	255.1	-0.95	254.4	-1.04	253	0.87	248.1	-4.18	175	-0.65		
180	-0.49	262.1	-0.99	262.2	-0.41	263.05	-0.42	262.05	-1.18	263.25	-0.51	262.6	-0.49	260	1.11	255.6	-3.76	180	-0.65		
185	-0.49	269.55	-0.92	270.15	-0.18	270.6	-0.3	269.4	-1.21	270.25	-0.57	269.75	-0.27	267.95	1.3	263.1	-3.25	185	-0.65		
190	-0.49	277.1	-0.82	277.65	-0.12	278.1	-0.51	277.45	-1.73	277.7	-1.07	277.95	-0.28	276.4	1.47	270.65	-2.78	190	-0.65		
195	-0.49	284.65	-0.74	285.2	-0.22	285.7	-1.06	285	-2.72	285.2	-2.06	286.1	-0.48	283.4	1.49	278.7	-2.21	195	-0.65		
200	-0.49	292.2	-0.62	292.8	-0.43	293.55	-1.93	292.55	-4.18	293.25	-3.56	293.6	-0.75	292	1.45	286.35	-1.8	200	-0.65		
205	-0.49	300.15	-0.46	300.35	-0.66	300.85	-2.86	300.15	-6.14	300.85	-5.06	301.1	-0.97	300.75	1.32	293.9	-1.47	205	-0.65		
210	-0.49	308.1	-0.34	307.95	-0.81	308.95	-3.6	307.15	-7.59	308.5	-5.89	308.65	-1.04	307.9	1.17	301.4	-1.27	210	-0.65		
215	-0.49	315.5	-0.24	315.45	-0.85	316.55	-3.55	315.1	-7.01	315.65	-5.21	316.25	-0.95	315.45	0.96	308.85	-1.21	215	-0.65		
220	-0.49	323.2	-0.2	323.45	-0.71	324.2	-2.75	322.45	-5.04	323.6	-3.59	323.4	-0.8	322.9	0.72	316.15	-1.28	220	-0.65		
225	-0.49	331.35	-0.16	330.95	-0.45	331.7	-1.59	330.85	-2.93	331.15	-2.16	331.55	-0.67	331.25	0.4	324.35	-1.48	225	-0.65		
230	-0.49	338.95	-0.12	338.5	-0.18	339.2	-0.63	338.35	-1.63	338.75	-1.11	339.15	-0.64	339.35	0.09	331.8	-1.83	230	-0.65		
235	-0.49	346.55	-0.12	346.35	0.03	346.75	-0.03	345.9	-0.99	345.7	-0.62	346.3	-0.84	346.95	-0.3	339.5	-2.33	235	-0.65		
240	-0.49	352.75	-0.08	353.05	0.18	353.05	0.24	353	-0.88	353	-0.7	353.2	-1.34	352.9	-0.8	346.65	-3.01	240	-0.65		
245	-0.49	355	-0.09	355	0.17	355	0.24	355	-0.89	355	-0.73	355	-1.37	355	-0.79	352.95	-3.9	245	-0.65		
250	-0.49	360	-0.02	360	0.21	360	0.11	360	-1.38	360	-1.37	360	-2.15	360	-1.36	355	-3.91	250	-0.65		
255	-0.49															360	-5.15	255	-0.65		
260	-0.49																	260	-0.65		
265	-0.49																	265	-0.65		
270	-0.49																	270	-0.65		
275	-0.49																	275	-0.65		
280	-0.49																	280	-0.65		
285	-0.49																	285	-0.65		
290	-0.49																	290	-0.65		
295	-0.49																	295	-0.65		
300	-0.49																	300	-0.65		
305	-0.49																	305	-0.65		
310	-0.49																	310	-0.65		
315	-0.49																	315	-0.65		
320	-0.49																	320	-0.65		
325	-0.49																	325	-0.65		
330	-0.49																	330	-0.65		
335	-0.49																	335	-0.65		
340	-0.49																	340	-0.65		
345	-0.49																	345	-0.65		
350	-0.49																	350	-0.65		
355																					

2530 Theta Ang	0		20		40		60		80		100		120		140		160		180		
Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	Phi Angle	Response	(dB)	
0	-0.56	0	-0.03	0	0.3	0	0.19	0	-1.14	0	-1.28	0	-2.2	0	-1.51	0	-5.31	0	-0.82		
5	-0.56	0	-0.03	0.05	0.31	0	0.19	0.05	-1.13	0	-1.28	0	-2.2	0.05	-1.55	0	-5.31	5	-0.82		
10	-0.56	1.65	-0.03	3.4	0.3	2.5	0.22	2.9	-1.14	0.8	-1.31	1.6	-2.2	2.55	-1.52	0.15	-5.33	10	-0.82		
15	-0.56	7.4	0.04	10.85	0.24	10.3	-0.2	9.95	-1.84	6.15	-1.7	7.6	-2.78	9.4	-2	4.3	-5.46	15	-0.82		
20	-0.56	15.05	0.2	18.35	0.11	17.8	-0.81	18.1	-2.59	14.55	-3.25	15.25	-3.88	17.05	-2.47	11.65	-6.63	20	-0.82		
25	-0.56	22.5	0.36	26.2	-0.01	25.35	-1.38	25.3	-2.79	22.65	-4.48	22.7	-4.62	24	-2.75	19.75	-7.78	25	-0.82		
30	-0.56	30.05	0.57	33.95	-0.11	32.45	-1.67	32.95	-2.25	30.7	-4.63	30.2	-4.75	32	-2.83	27.2	-8.45	30	-0.82		
35	-0.56	38.05	0.73	41.5	-0.13	40.25	-1.63	41	-1.41	38.4	-3.64	38.2	-4.28	39.2	-2.61	34.7	-8.48	35	-0.82		
40	-0.56	45.6	0.87	49	-0.04	48.35	-1.25	48.25	-0.69	46.5	-2.28	45.8	-3.47	46.9	-2.32	42.2	-7.94	40	-0.82		
45	-0.56	53.1	0.97	56.45	0.03	55.85	-0.81	55.85	-0.08	54.85	-1.15	53	-2.66	54.85	-1.93	49.7	-7.17	45	-0.82		
50	-0.56	61.35	1.02	63.9	0.22	63.3	-0.46	63.8	0.28	62.35	-0.31	60.45	-1.96	62.3	-1.6	57.15	-6.39	50	-0.82		
55	-0.56	69.8	1.02	71.4	0.39	70.8	-0.21	71.3	0.46	70.4	0.21	68.65	-1.42	69.55	-1.34	65.1	-5.77	55	-0.82		
60	-0.56	77.95	0.96	79.4	0.55	78.1	-0.1	78.9	0.56	78.05	0.54	76.25	-1.08	77.6	-1.21	72.2	-5.38	60	-0.82		
65	-0.56	85.5	0.89	86.6	0.65	86.55	-0.13	86.1	0.5	85.6	0.59	83.75	-0.88	85.1	-1.16	79.5	-5.22	65	-0.82		
70	-0.56	92.7	0.79	94.5	0.69	94.4	-0.29	94.05	0.36	93.15	0.51	91.25	-0.87	92.55	-1.25	87.75	-5.29	70	-0.82		
75	-0.56	100.25	0.67	102.1	0.67	103.55	-0.48	101.75	0.1	100.85	0.22	98.7	-0.98	100.2	-1.5	95.35	-5.59	75	-0.82		
80	-0.56	108.25	0.58	109.25	0.53	111.1	-0.79	108.95	-0.28	108.35	-0.26	106.7	-1.27	107.85	-1.91	102.9	-6.15	80	-0.82		
85	-0.56	115.6	0.43	117.4	0.32	118.75	-1.13	116.6	-0.84	116.05	-1.01	114.2	-1.73	114.85	-2.47	110.95	-6.96	85	-0.82		
90	-0.56	123.75	0.31	125.3	0.03	126.3	-1.54	124.25	-1.63	124	-2.07	122.2	-2.55	122.4	-3.22	118.5	-7.95	90	-0.82		
95	-0.56	130.95	0.17	132.9	-0.35	133.85	-2.02	132.3	-2.68	131.95	-3.48	130.4	-3.72	129.9	-4.14	126	-9.12	95	-0.82		
100	-0.56	138.95	0.06	140.45	-0.81	141.25	-2.55	140.35	-3.9	139.55	-5.47	138.05	-5.31	138.1	-5.09	133.35	-10.36	100	-0.82		
105	-0.56	146.1	-0.1	148.65	-1.35	148.75	-3.08	147.9	-5.13	147.1	-7.72	145.75	-7.26	145.75	-5.83	141.05	-11.34	105	-0.82		
110	-0.56	154.1	-0.26	156.2	-1.78	156.15	-3.43	155.45	-5.49	154.6	-8.87	153.2	-8.39	153.25	-5.84	148.65	-11.68	110	-0.82		
115	-0.56	162.35	-0.46	163.15	-2.08	163.3	-3.49	163	-4.77	162.05	-7.37	161.85	-7.35	161.2	-5.02	156.25	-11.2	115	-0.82		
120	-0.56	169.8	-0.63	171.8	-2.37	170.95	-3.39	170.6	-3.52	169.5	-4.98	168.9	-5.32	168.8	-3.9	163.75	-10.14	120	-0.82		
125	-0.56	177.85	-0.76	179	-2.52	179.1	-3.13	178.2	-2.48	177.75	-3	176.9	-3.39	176.3	-2.85	171.3	-8.99	125	-0.82		
130	-0.56	185.35	-0.87	186.5	-2.55	186.6	-2.98	185.4	-2.01	185.45	-2.03	185.5	-2.18	183.8	-1.92	179.05	-7.86	130	-0.82		
135	-0.56	192.85	-0.95	194	-2.65	194.1	-3.06	193.4	-2.3	193.85	-2.11	192.7	-1.66	191.3	-1.28	186.55	-6.95	135	-0.82		
140	-0.56	200.35	-0.96	202.05	-2.79	202.05	-3.3	201.1	-3.5	201.05	-3.12	200.15	-1.73	198.6	-0.81	194.2	-6.29	140	-0.82		
145	-0.56	208.3	-0.98	209.25	-2.88	209.2	-3.62	208.6	-5.76	209.7	-5.5	208.05	-2.31	206.35	-0.52	201.65	-5.73	145	-0.82		
150	-0.56	215.85	-0.95	216.8	-2.88	216.95	-3.8	216.1	-8.87	216.7	-8.87	215.6	-3.19	214.35	-0.29	209.15	-5.37	150	-0.82		
155	-0.56	223.85	-0.92	224.35	-2.68	224.45	-3.66	223.7	-10.11	224.2	-10.51	223.6	-3.95	222.6	-0.13	216.75	-5.16	155	-0.82		
160	-0.56	231.55	-0.88	232.3	-2.25	231.8	-3	231.35	-7.33	232.5	-7.02	231.55	-3.94	229.9	0.09	224.75	-5.03	160	-0.82		
165	-0.56	238.65	-0.84	239.95	-1.7	239.95	-2.13	239.4	-4.41	240.05	-3.95	239.05	-3.03	237.5	0.34	232.2	-4.81	165	-0.82		
170	-0.56	246.2	-0.81	247.6	-1.13	247.2	-1.26	246.95	-2.53	247.55	-1.92	247	-1.96	245	0.62	240.6	-4.55	170	-0.82		
175	-0.56	254.6	-0.78	254.7	-0.55	255.25	-0.54	254.55	-1.38	255.1	-0.83	254.4	-0.97	253	0.92	248.1	-4.2	175	-0.82		
180	-0.56	262.1	-0.75	262.2	-0.18	263.05	-0.11	262.05	-0.84	263.25	-0.26	262.6	-0.38	260	1.2	255.6	-3.75	180	-0.82		
185	-0.56	269.55	-0.71	270.15	0.01	270.6	0	269.4	-0.82	270.25	-0.31	269.75	-0.14	267.95	1.41	263.1	-3.29	185	-0.82		
190	-0.56	277.1	-0.68	277.65	0.05	278.1	-0.22	277.45	-1.31	277.7	-0.79	277.95	-0.15	276.4	1.52	270.65	-2.75	190	-0.82		
195	-0.56	284.65	-0.6	285.2	-0.11	285.7	-0.78	285	-2.25	285.2	-1.8	286.1	-0.41	283.4	1.55	278.7	-2.23	195	-0.82		
200	-0.56	292.2	-0.56	292.8	-0.39	293.55	-1.72	292.55	-3.75	293.25	-3.33	293.6	-0.72	292	1.48	286.35	-1.85	200	-0.82		
205	-0.56	300.15	-0.5	300.35	-0.66	300.85	-2.78	300.15	-5.74	300.85	-4.94	301.1	-0.96	300.75	1.32	293.9	-1.54	205	-0.82		
210	-0.56	308.1	-0.4	307.95	-0.9	308.95	-3.64	307.15	-7.47	308.5	-5.91	308.65	-1.05	307.9	1.15	301.4	-1.36	210	-0.82		
215	-0.56	315.5	-0.32	315.45	-0.92	316.55	-3.69	315.1	-7.19	315.65	-5.27	316.25	-0.93	315.45	0.91	308.85	-1.28	215	-0.82		
220	-0.56	323.2	-0.29	323.45	-0.79	324.2	-2.85	322.45	-5.17	323.6	-3.53	323.4	-0.77	322.9	0.66	316.15	-1.36	220	-0.82		
225	-0.56	331.35	-0.26	330.95	-0.5	331.7	-1.65	330.85	-2.91	331.15	-2.03	331.55	-0.59	331.25	0.34	324.35	-1.54	225	-0.82		
230	-0.56	338.95	-0.25	338.5	-0.2	339.2	-0.6	338.35	-1.5	338.75	-0.92	339.15	-0.59	339.35	-0.03	331.8	-1.93	230	-0.82		
235	-0.56	346.55	-0.21	346.35	0.08	346.75	0.05	345.9	-0.79	345.7	-0.45	346.3	-0.77	346.95	-0.44	339.5	-2.49	235	-0.82		
240	-0.56	352.75	-0.15	353.05	0.26	353.05	0.33	353	-0.64	353	-0.52	353.2	-1.27	352.9	-0.92	346.65	-3.12	240	-0.82		
245	-0.56	355	-0.15	355	0.26	355	0.35	355	-0.63	355	-0.55	355	-1.34	355	-0.94	352.95	-4.02	245	-0.82		
250	-0.56	360	-0.03	360	0.3	360	0.19	360	-1.14	360	-1.28	360	-2.2	360	-1.51	355	-4.03	250	-0.82		
255	-0.56															360	-5.31	255	-0.82		
260	-0.56																	260	-0.82		
265	-0.56																	265	-0.82		
270	-0.56																	270	-0.82		
275	-0.56																	275	-0.82		
280	-0.56																	280	-0.82		
285	-0.56																	285	-0.82		
290	-0.56																	290	-0.82		
295	-0.56																	295	-0.82		
300	-0.56																	300	-0.82		
305	-0.56																	305	-0.82		
310	-0.56																	310	-0.82		
315	-0.56																	315	-0.82		
320	-0.56																	320	-0.82		
325	-0.56																	325	-0.82		
330	-0.56																	330	-0.82		
335	-0.56																	335	-0.82		
340	-0.56																	340	-0.82		
345	-0.56																	345	-0.82		
350	-0.56																	350	-0.82		
355	-0.56																				

Total	Frequency	2350	2360	2370	2380	2390	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	2510	2520	2530	
Point Values																					
Ant. Port I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tot. Rad. I	-2.88736	-2.85736	-3.12895	-2.84964	-2.69889	-2.51073	-2.401	-2.41681	-2.22116	-2.0821	-2.05768	-1.94425	-1.89146	-1.86598	-1.69267	-1.73086	-1.84811	-1.83256	-1.68347	-1.68347	-1.68347
Peak EIRP	0.82144	0.772196	0.421059	0.630151	0.655059	0.779682	0.891558	1.1684	1.34451	1.44525	1.39277	1.424	1.48313	1.59166	1.83087	1.81332	1.60814	1.4911	1.55392	1.55392	1.55392
Directivity	3.7088	3.62956	3.55001	3.47979	3.35395	3.29041	3.29256	3.58521	3.56567	3.52735	3.45045	3.36825	3.37459	3.45764	3.52354	3.54418	3.45625	3.32366	3.23739	3.23739	3.23739
Efficiency	-2.88736	-2.85736	-3.12895	-2.84964	-2.69889	-2.51073	-2.401	-2.41681	-2.22116	-2.0821	-2.05768	-1.94425	-1.89146	-1.86598	-1.69267	-1.73086	-1.84811	-1.83256	-1.68347	-1.68347	-1.68347
Efficiency	51.4356	51.7921	48.6525	51.8843	53.7169	56.0954	57.5307	57.3217	59.9631	61.9142	62.2633	63.9109	64.6925	65.0731	67.7225	67.1296	65.3415	65.5758	67.8662	67.8662	67.8662
Gain (dBi)	0.82144	0.772196	0.421059	0.630151	0.655059	0.779682	0.891558	1.1684	1.34451	1.44525	1.39277	1.424	1.48313	1.59166	1.83087	1.81332	1.60814	1.4911	1.55392	1.55392	1.55392
NHPRP ±P	-4.7359	-4.72984	-5.00973	-4.73309	-4.57846	-4.39501	-4.3154	-4.32204	-4.14359	-4.00406	-3.96204	-3.82463	-3.76083	-3.74241	-3.58288	-3.62791	-3.72404	-3.66638	-3.47916	-3.47916	-3.47916
NHPRP ±P	-6.56431	-6.5654	-6.84347	-6.55818	-6.39257	-6.2051	-6.14059	-6.1421	-5.96788	-5.8187	-5.7572	-5.60078	-5.53314	-5.52567	-5.38282	-5.43372	-5.5112	-5.42296	-5.20906	-5.20906	-5.20906
NHPRP ±P	-7.88166	-7.8888	-8.17023	-7.88371	-7.71447	-7.52653	-7.46704	-7.47035	-7.29841	-7.14324	-7.0728	-6.90682	-6.83573	-6.83227	-6.69437	-6.74485	-6.80823	-6.69952	-6.46843	-6.46843	-6.46843
Upper Her	-5.68616	-5.65089	-5.91201	-5.60824	-5.42163	-5.18928	-5.02469	-5.13509	-4.88432	-4.7151	-4.66226	-4.51981	-4.44464	-4.41607	-4.25392	-4.31213	-4.45259	-4.4492	-4.30854	-4.30854	-4.30854
Lower Her	-6.11998	-6.09582	-6.37903	-6.12712	-6.01716	-5.88023	-5.83572	-5.7402	-5.60877	-5.50562	-5.51554	-5.4377	-5.41271	-5.39111	-5.20387	-5.21727	-5.3061	-5.2758	-5.11652	-5.11652	-5.11652
NHPRP4 /	-1.84854	-1.87248	-1.88078	-1.88345	-1.87957	-1.88428	-1.9144	-1.90523	-1.92243	-1.92196	-1.90436	-1.88038	-1.86937	-1.87643	-1.8902	-1.89705	-1.87592	-1.83382	-1.7957	-1.7957	-1.7957
NHPRP4 /	65.335	64.9759	64.8518	64.8119	64.8699	64.7995	64.3517	64.4878	64.2328	64.2398	64.5006	64.8577	65.0224	64.9168	64.7112	64.6094	64.9243	65.5569	66.1348	66.1348	66.1348
Near Horz	-3.23075	-3.22469	-3.50458	-3.22794	-3.07331	-2.88986	-2.81025	-2.81689	-2.63844	-2.49891	-2.45689	-2.31948	-2.25568	-2.23726	-2.07773	-2.12276	-2.21889	-2.16123	-1.97401	-1.97401	-1.97401
NHPRP6 /	-3.67695	-3.70804	-3.71452	-3.70854	-3.69368	-3.69437	-3.73959	-3.72529	-3.74673	-3.7366	-3.69952	-3.65653	-3.64168	-3.65969	-3.69015	-3.70286	-3.66309	-3.59039	-3.5256	-3.5256	-3.5256
NHPRP6 /	42.885	42.5791	42.5155	42.5741	42.7201	42.7133	42.2708	42.4103	42.2015	42.3	42.6627	43.0871	43.2346	43.0557	42.7548	42.6299	43.022	43.7483	44.4059	44.4059	44.4059
Near Horz	-3.55401	-3.5551	-3.83317	-3.54788	-3.38227	-3.1948	-3.13029	-3.1318	-2.95758	-2.8084	-2.7469	-2.59048	-2.52284	-2.51537	-2.37252	-2.42342	-2.5009	-2.41266	-2.19876	-2.19876	-2.19876
NHPRP8 /	-4.9943	-5.03144	-5.04129	-5.03407	-5.01558	-5.01581	-5.06604	-5.05354	-5.07725	-5.06114	-5.01512	-4.96257	-4.94428	-4.96628	-5.00169	-5.01399	-4.96012	-4.86696	-4.78496	-4.78496	-4.78496
NHPRP8 /	31.6643	31.3947	31.3236	31.3756	31.5096	31.5079	31.1456	31.2353	31.0653	31.1807	31.5129	31.8965	32.0311	31.8692	31.6104	31.5211	31.9145	32.6065	33.228	33.228	33.228
Near Horz	-3.71005	-3.71719	-3.99863	-3.71211	-3.54286	-3.35493	-3.29544	-3.29875	-3.1268	-2.97163	-2.9012	-2.73521	-2.66413	-2.66066	-2.52276	-2.57324	-2.63663	-2.52792	-2.29682	-2.29682	-2.29682
UHPRP / T	-2.7988	-2.79533	-2.78306	-2.7586	-2.72273	-2.67855	-2.62369	-2.71827	-2.66316	-2.633	-2.60459	-2.57556	-2.55319	-2.55009	-2.56125	-2.58127	-2.60448	-2.61664	-2.62508	-2.62508	-2.62508
UHPRP / T	52.4952	52.559	52.6858	52.9834	53.4228	53.9691	54.6551	53.4777	54.1607	54.5381	54.8961	55.2643	55.5497	55.5893	55.4466	55.1916	54.8975	54.744	54.6377	54.6377	54.6377
Upper Her	-2.67586	-2.64059	-2.90171	-2.59794	-2.41133	-2.17898	-2.01439	-2.12479	-1.87402	-1.7048	-1.65196	-1.50951	-1.43434	-1.40577	-1.24362	-1.30183	-1.44229	-1.4389	-1.29824	-1.29824	-1.29824
LHPRP / T	-3.23263	-3.23846	-3.25009	-3.27749	-3.31827	-3.3695	-3.43472	-3.32339	-3.38762	-3.42352	-3.45786	-3.49345	-3.52125	-3.52513	-3.5112	-3.48641	-3.45799	-3.44324	-3.43305	-3.43305	-3.43305
LHPRP / T	47.5048	47.441	47.3142	47.0166	46.5772	46.0309	45.3449	46.5223	45.8393	45.4619	45.1039	44.7357	44.4503	44.4107	44.5534	44.8084	45.1025	45.256	45.3623	45.3623	45.3623
Lower Her	-3.10968	-3.08552	-3.36873	-3.11682	-3.00686	-2.86993	-2.82542	-2.7299	-2.59847	-2.49532	-2.50524	-2.4274	-2.40241	-2.38081	-2.19357	-2.20697	-2.2958	-2.2655	-2.10622	-2.10622	-2.10622
PRP (dBm)	-4.27897	-4.2516	-4.51576	-4.21734	-4.03804	-3.82111	-3.68453	-3.75918	-3.52797	-3.36049	-3.30401	-3.16172	-3.09238	-3.06751	-2.90226	-2.94465	-3.05558	-3.02346	-2.86355	-2.86355	-2.86355
Front/Bac	3.75603	3.19264	2.88356	2.57601	2.29825	1.84964	1.37721	1.33389	1.18197	1.2017	1.24696	1.23279	1.16957	1.12027	1.20826	1.1557	1.11457	1.00236	0.906983	0.906983	0.906983
Phi BW (*)	77	28	27	29	28	92	124	120	120	122	123	124	124	60	63	62	62	62	62	62	62
#NAME?	12	10	10	20	9	59	94	92	92	94	95	96	96	33	33	32	32	32	32	32	32
#NAME?	65	18	17	9	19	33	30	28	28	28	28	28	28	27	30	30	30	30	30	30	30
Theta BW	29	34	94	33	34	70	32	32	33	34	35	35	36	35	34	35	37	38	38	38	38
#NAME?	16	14	13	18	15	49	10	10	10	9	9	9	10	10	10	10	10	10	10	10	10
#NAME?	13	20	81	15	19	21	22	22	23	25	26	26	26	25	24	25	27	28	28	28	28
Boresight	55	355	340	185	0	292	283.4	276.4	276.4	276.4	276.4	276.4	276.4	276.4	283.4	283.4	283.4	283.4	283.4	283.4	283.4
Boresight	180	180	180	180	180	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Maximum	0.82144	0.772196	0.421059	0.630151	0.655059	0.779682	0.891558	1.1684	1.34451	1.44525	1.39277	1.424	1.48313	1.59166	1.83087	1.81332	1.60814	1.4911	1.55392	1.55392	1.55392
Minimum	-12.4103	-12.4537	-12.6429	-12.161	-11.8083	-11.5825	-11.5677	-11.4929	-11.4162	-11.5833	-12.1394	-12.3015	-12.2815	-11.9039	-11.5317	-11.6265	-11.9113	-11.9533	-11.6843	-11.6843	-11.6843
Average P	-2.30657	-2.22946	-2.47772	-2.17358	-2.01754	-1.82149	-1.68236	-1.71661	-1.51725	-1.37921	-1.38153	-1.31845	-1.31308	-1.32099	-1.15901	-1.21116	-1.36954	-1.43044	-1.3614	-1.3614	-1.3614
Max/Min	13.2318	13.2258	13.064	12.7911	12.4633	12.3622	12.4593	12.6613	12.7607	13.0285	13.5321	13.7255	13.7646	13.4956	13.3626	13.4398	13.5194	13.4444	13.2382	13.2382	13.2382
Max/Avg I	3.12801	3.00165	2.89878	2.80373	2.6726	2.60117	2.57392	2.88501	2.86176	2.82447	2.7743	2.74246	2.79622	2.91264	2.98988	3.02447	2.97768	2.92153	2.91533	2.91533	2.91533
Min/Avg I	-10.1037	-10.2242	-10.1652	-9.98737	-9.79073	-9.76099	-9.88535	-9.7763	-9.89893	-10.2041	-10.7578	-10.9831	-10.9684	-10.5829	-10.3727	-10.4153	-10.5417	-10.5229	-10.3229	-10.3229	-10.3229
Minimum	-12.4103	-12.4537	-12.6429	-12.161	-11.8083	-11.5825	-11.5677	-11.4929	-11.4162	-11.5833	-12.1394	-12.3015	-12.2815	-11.9039	-11.5317	-11.6265	-11.9113	-11.9533	-11.6843	-11.6843	-11.6843
Maximum	0.82144	0.772196	0.421059	0.630151	0.655059	0.779682	0.891558	1.1684	1.34451	1.44525	1.39277	1.424	1.48313	1.59166	1.83087	1.81332	1.60814	1.4911			