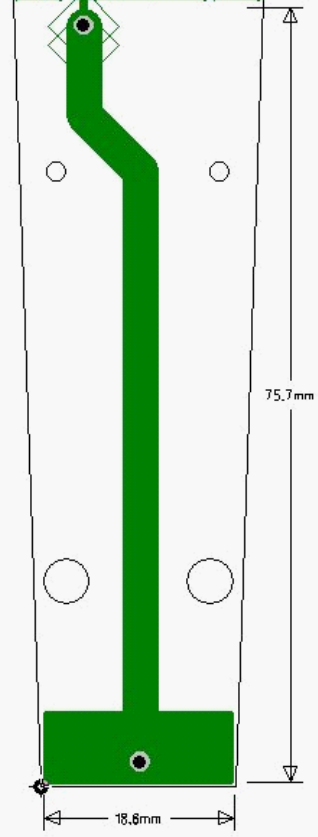


## TKR-372MP PRO PLUS Antenna Specification

ITEM	Antenna Specification
Model	TKR-372MP PRO PLUS
Parts Name	TX ANT
Type and shape of antenna	Pattern print
Antenna gain(max)	2.95dBi
Radiates characteristic	Omnidirectional Antenna
Polarized characteristics	Linear
Connection	Board Print pattern
Part number	TKR-372MP_TXANT
Antenna photograph	 <p>The photograph shows a green printed antenna on a white substrate. The antenna consists of a vertical stem with a small loop at the top. The dimensions are indicated as 18.6mm width and 75.7mm height. There are four circular holes on the substrate, two on each side of the stem. The antenna is connected to a board print pattern at the bottom.</p>



















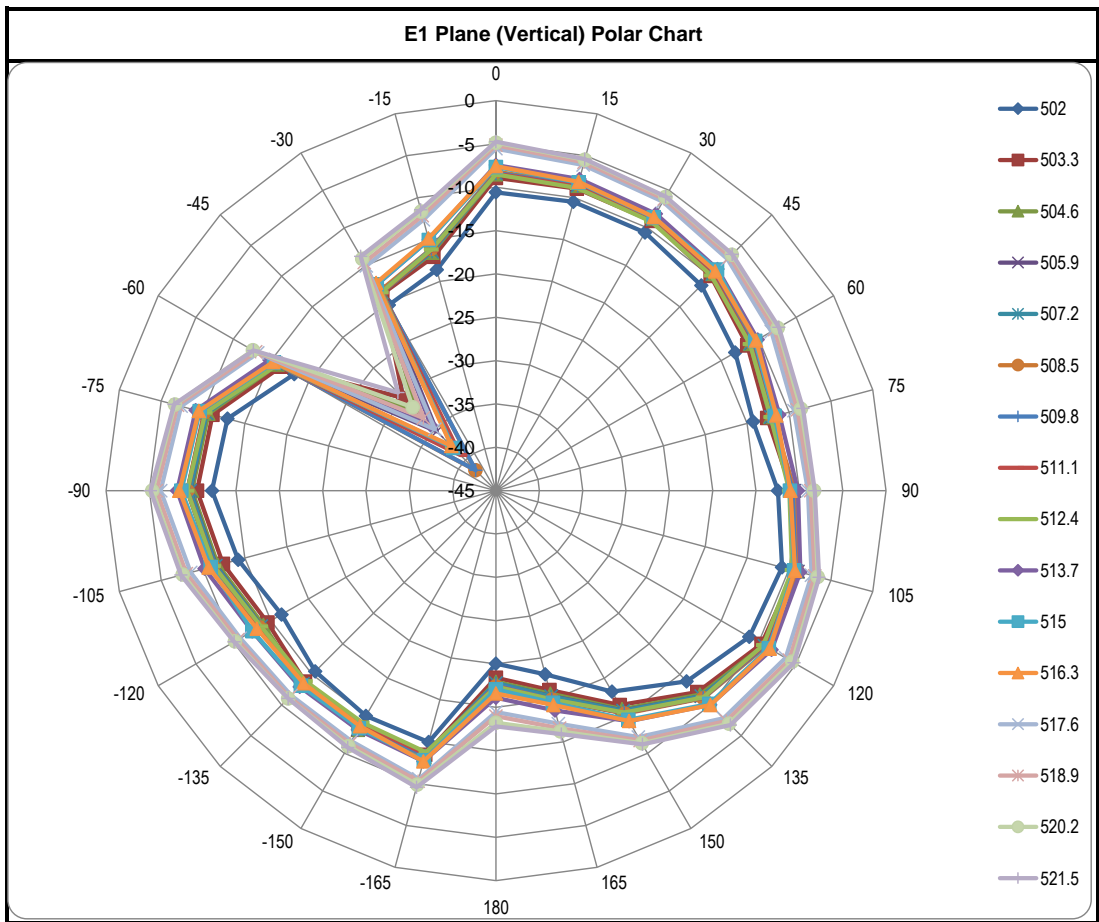
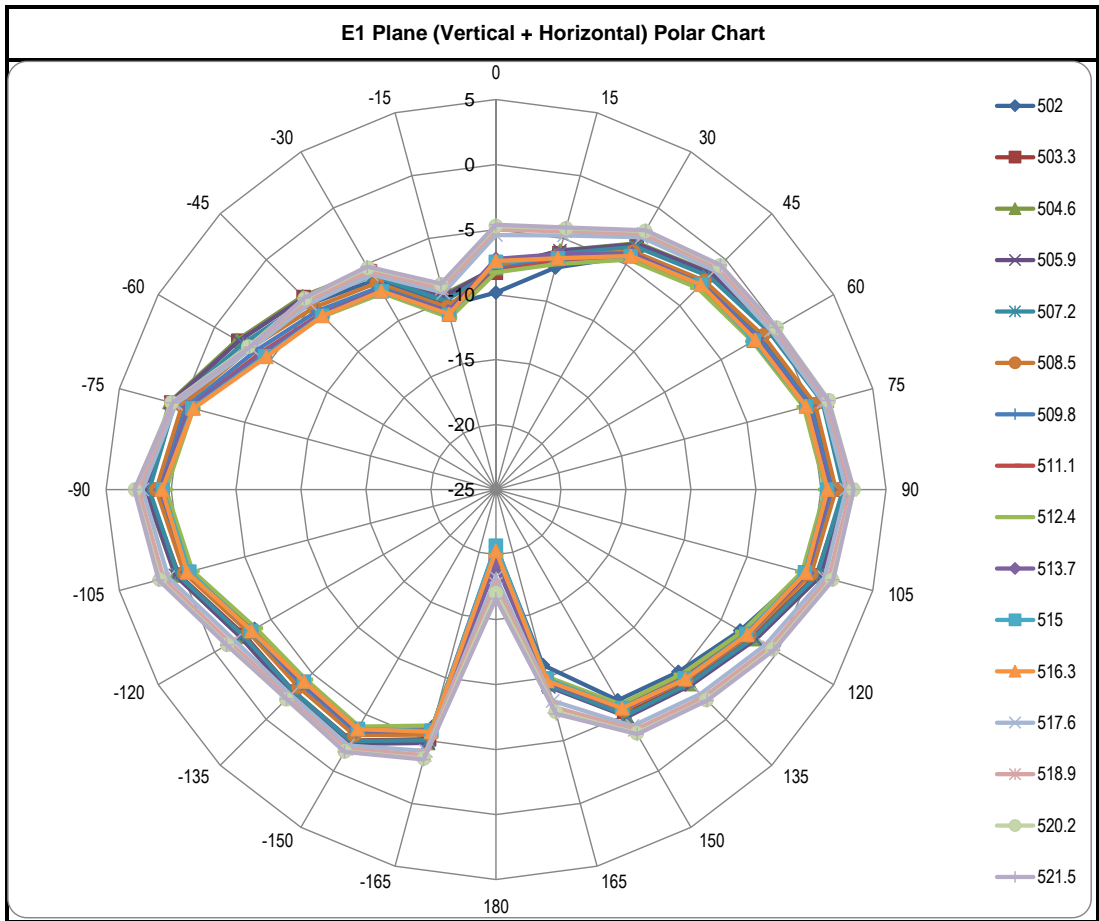




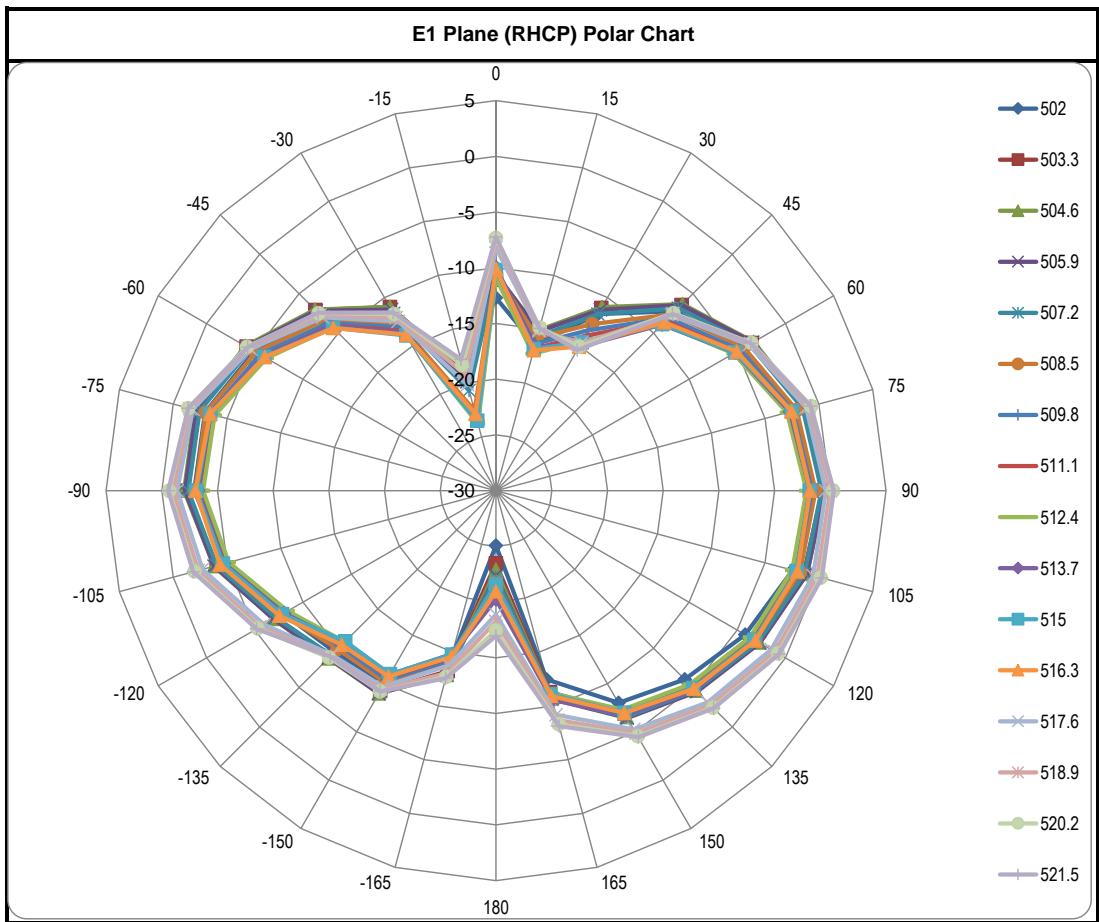
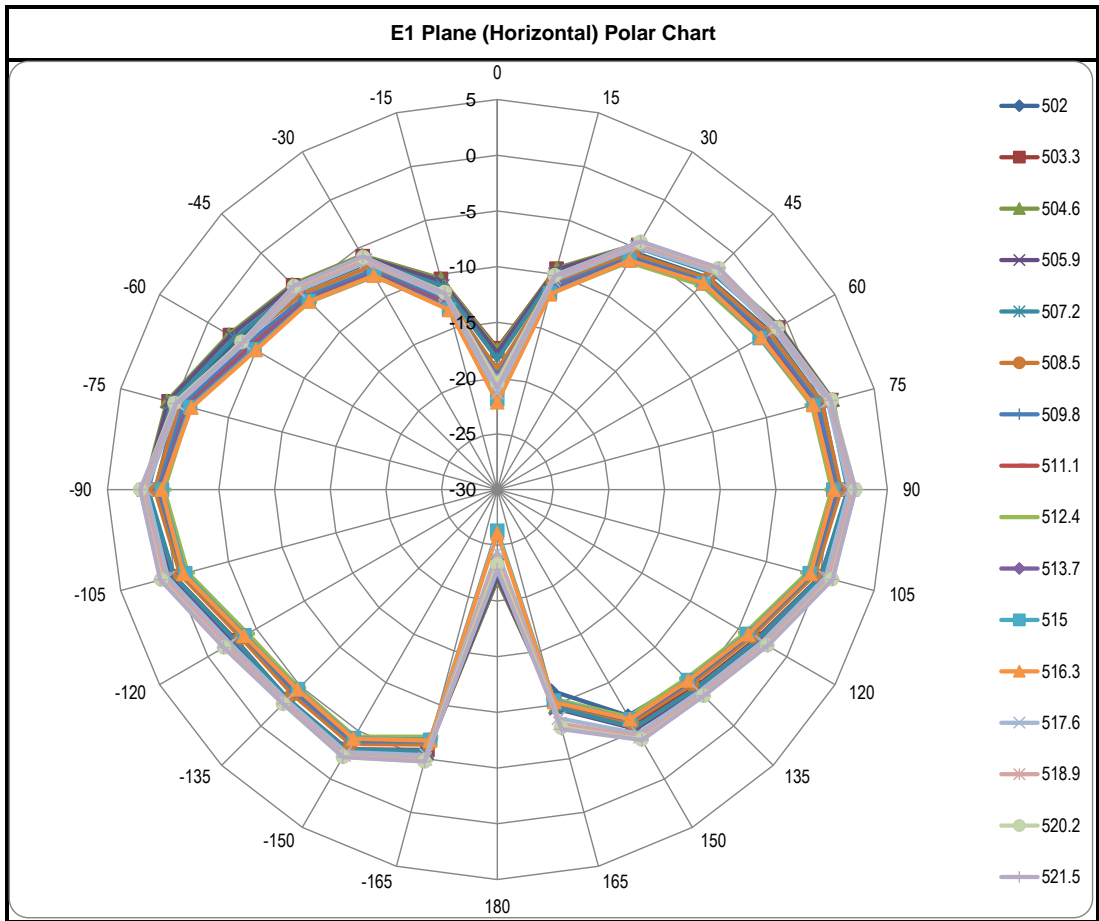












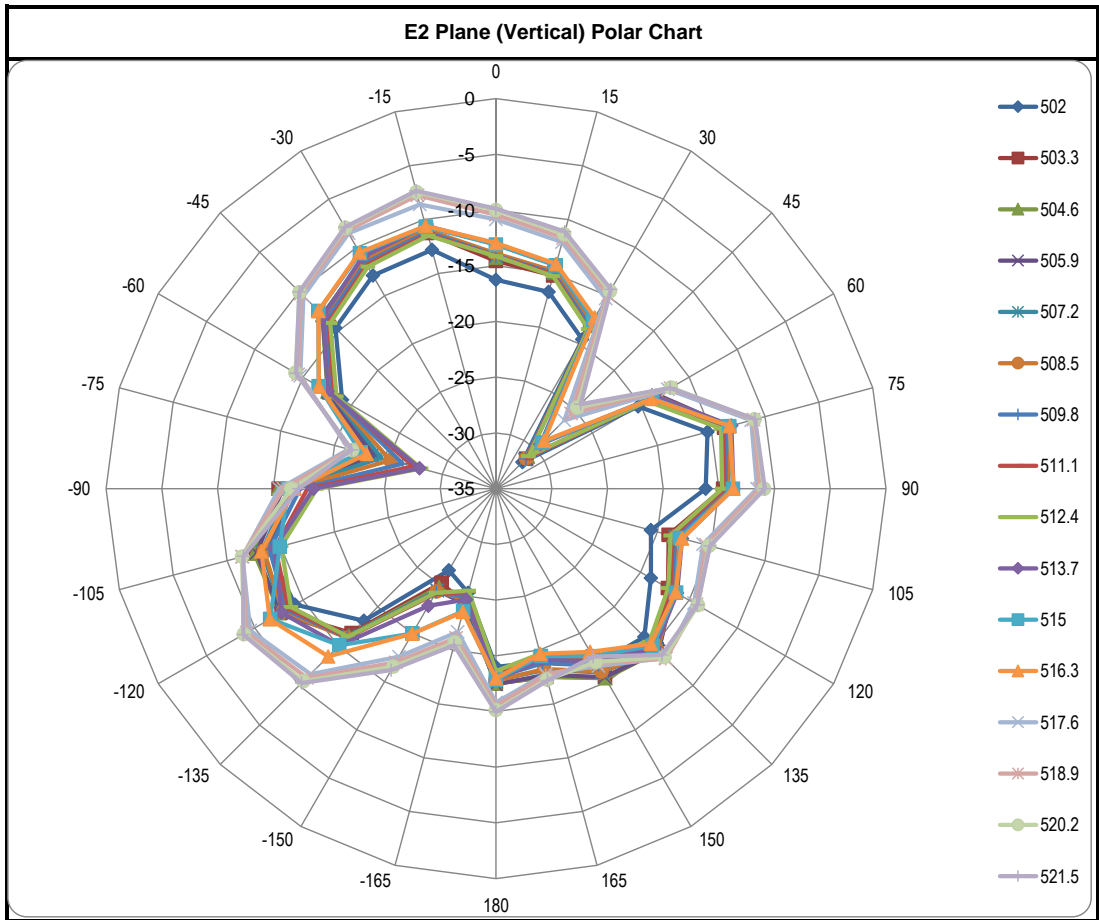
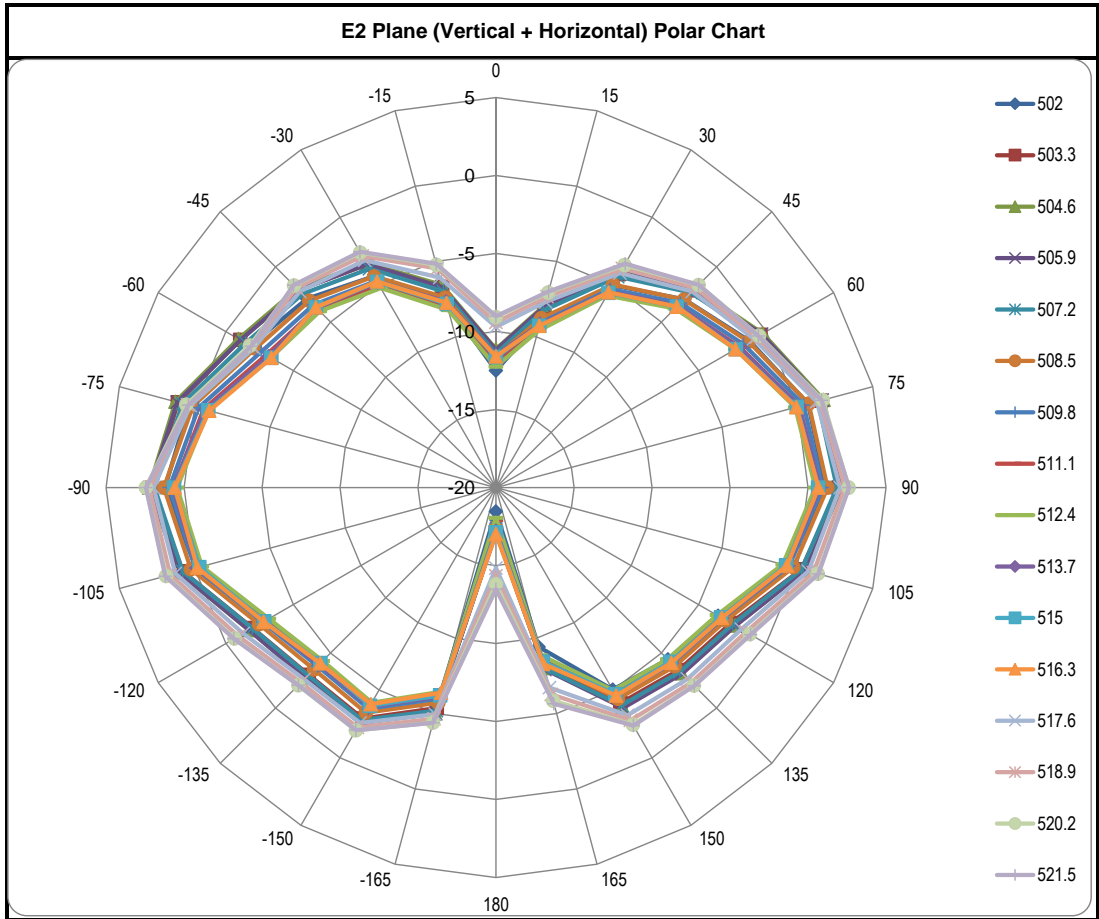


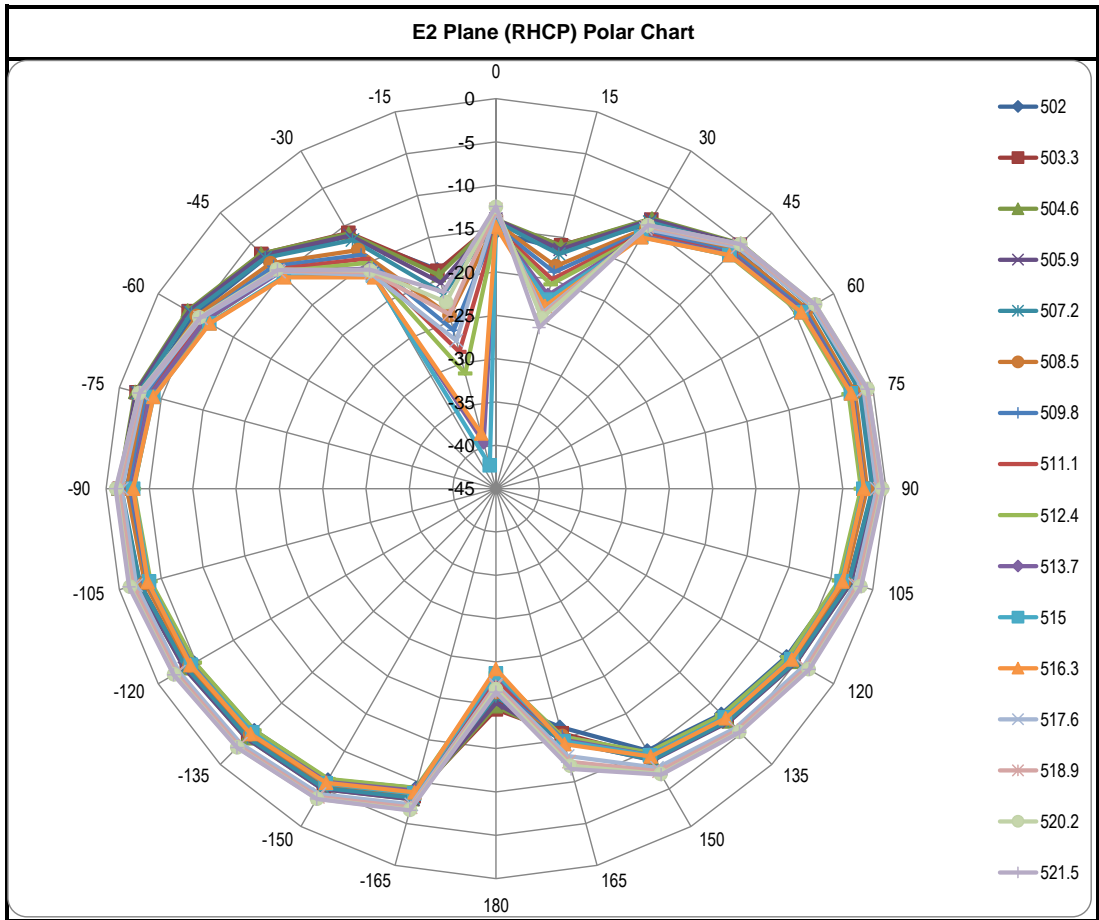
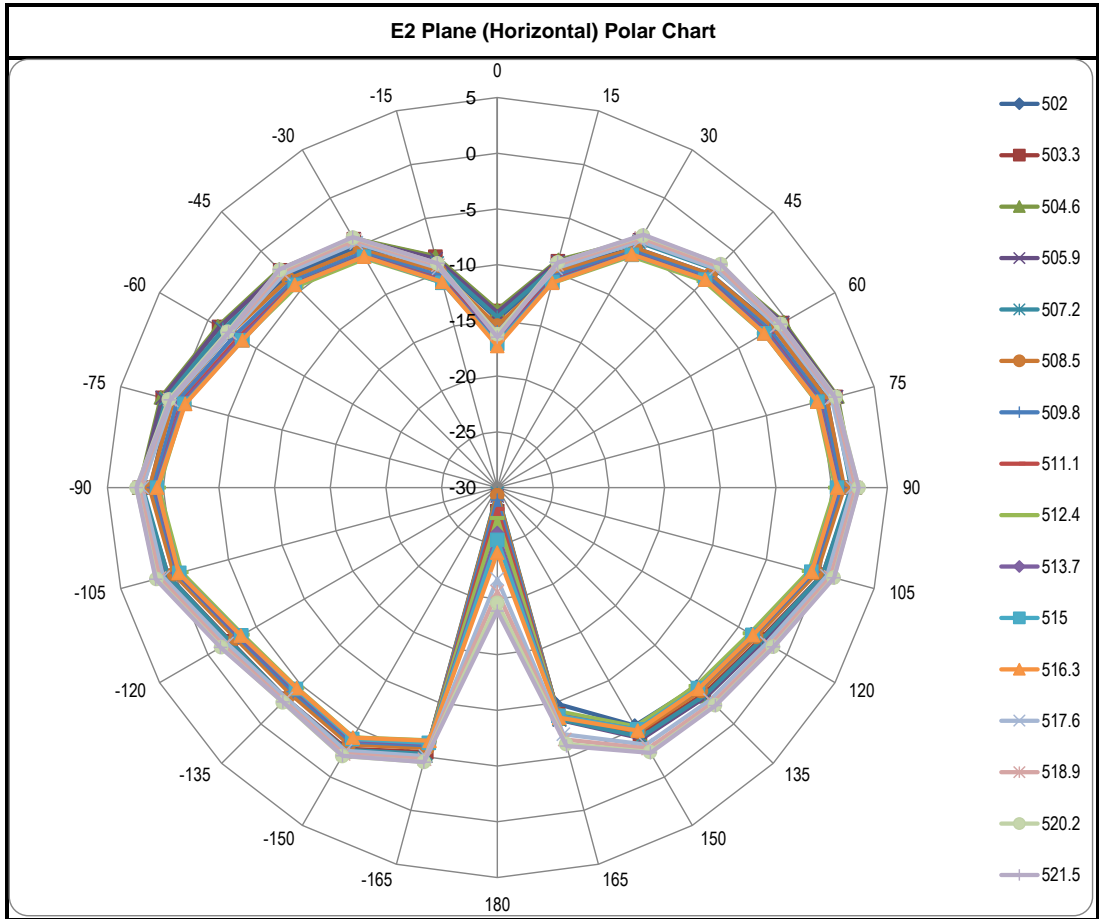




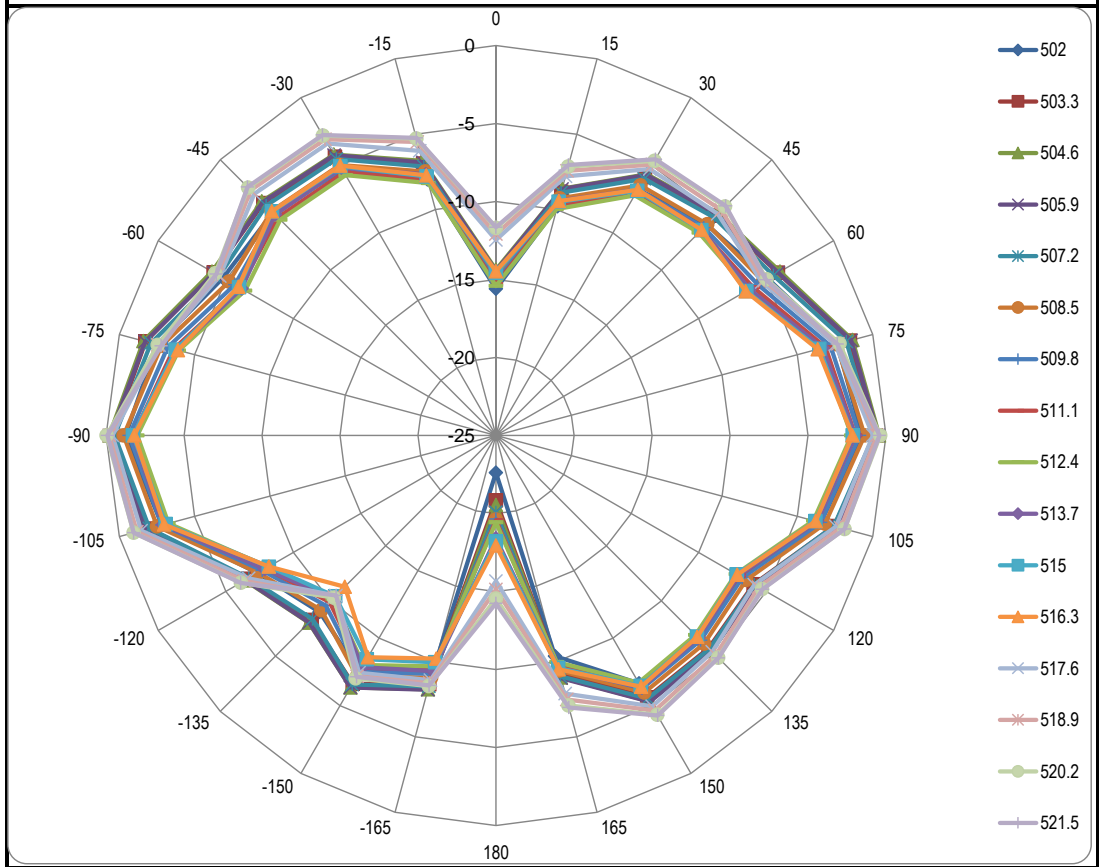








E2 Plane (LHCP) Polar Chart



502 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-12.50	-8.92	-5.03	-2.93	-1.23	0.71	1.13	-0.61	-3.55	-4.41	-5.03	-9.43	-18.47
15	-12.10	-8.73	-4.88	-2.76	-1.13	0.72	1.11	-0.61	-3.58	-4.58	-5.34	-10.05	-18.88
30	-11.40	-8.54	-4.73	-2.58	-1.05	0.71	1.05	-0.62	-3.60	-4.84	-5.75	-10.88	-20.14
45	-10.83	-8.19	-4.58	-2.51	-1.04	0.66	1.01	-0.62	-3.61	-5.05	-6.10	-11.56	-21.22
60	-10.37	-7.89	-4.48	-2.48	-1.13	0.54	0.99	-0.58	-3.57	-5.24	-6.37	-11.86	-22.00
75	-10.07	-7.59	-4.39	-2.50	-1.25	0.46	0.96	-0.51	-3.49	-5.27	-6.40	-11.64	-21.83
90	-9.85	-7.32	-4.29	-2.56	-1.39	0.34	0.95	-0.41	-3.30	-5.17	-6.27	-11.03	-20.60
105	-9.86	-7.15	-4.20	-2.58	-1.52	0.25	0.94	-0.31	-3.15	-5.00	-5.91	-10.15	-18.86
120	-10.03	-7.04	-4.12	-2.58	-1.62	0.21	0.99	-0.24	-3.01	-4.71	-5.42	-9.11	-16.73
135	-10.39	-7.04	-4.10	-2.59	-1.65	0.23	1.04	-0.22	-2.90	-4.44	-4.95	-8.24	-15.20
150	-10.91	-7.17	-4.13	-2.63	-1.67	0.28	1.12	-0.15	-2.86	-4.21	-4.48	-7.44	-13.92
165	-11.71	-7.37	-4.20	-2.72	-1.71	0.32	1.19	-0.11	-2.87	-4.01	-4.11	-6.80	-12.86
180	-12.60	-7.66	-4.36	-2.88	-1.80	0.34	1.23	-0.09	-2.89	-3.94	-3.81	-6.32	-12.13
195	-13.79	-8.13	-4.60	-3.12	-1.93	0.33	1.23	-0.11	-2.99	-3.86	-3.61	-5.95	-11.59
210	-15.01	-8.60	-4.96	-3.46	-2.15	0.26	1.19	-0.18	-3.08	-3.82	-3.48	-5.75	-11.31
225	-16.36	-9.19	-5.36	-3.81	-2.39	0.16	1.11	-0.29	-3.20	-3.83	-3.45	-5.70	-11.18
240	-17.31	-9.75	-5.77	-4.22	-2.65	0.06	1.05	-0.41	-3.32	-3.88	-3.47	-5.73	-11.23
255	-17.63	-10.24	-6.17	-4.58	-2.84	-0.02	0.96	-0.52	-3.45	-3.92	-3.54	-5.90	-11.54
270	-17.24	-10.36	-6.39	-4.78	-2.88	-0.01	0.91	-0.65	-3.55	-3.95	-3.66	-6.12	-12.03
285	-16.53	-10.34	-6.41	-4.79	-2.78	0.07	0.93	-0.70	-3.58	-3.94	-3.76	-6.41	-12.63
300	-15.68	-10.12	-6.21	-4.54	-2.54	0.21	0.98	-0.70	-3.58	-3.94	-3.88	-6.75	-13.35
315	-14.98	-9.85	-5.95	-4.20	-2.21	0.37	1.04	-0.69	-3.56	-3.97	-4.04	-7.23	-14.40
330	-14.22	-9.55	-5.64	-3.78	-1.87	0.52	1.08	-0.73	-3.52	-4.05	-4.27	-7.74	-15.49
345	-13.52	-9.28	-5.32	-3.39	-1.59	0.65	1.12	-0.61	-3.53	-4.17	-4.56	-8.38	-16.73
360	-12.50	-8.92	-5.03	-2.93	-1.23	0.71	1.13	-0.61	-3.55	-4.41	-5.03	-9.43	-18.47
Avg.	-12.59	-8.62	-5.12	-3.40	-1.97	0.18	0.88	-0.62	-3.49	-4.49	-4.71	-7.88	-14.45
Peak Value		1.234		Minimum Value -22.002									

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.87	-9.71	-5.18	-2.94	-1.28	0.60	1.05	-0.65	-3.67	-4.71	-5.33	-9.95	-27.81
15	-14.81	-9.64	-5.08	-2.78	-1.17	0.64	1.06	-0.64	-3.72	-4.91	-5.65	-10.53	-23.99
30	-14.91	-9.74	-5.04	-2.67	-1.09	0.67	1.03	-0.65	-3.79	-5.23	-6.06	-11.28	-22.99
45	-15.17	-9.85	-5.06	-2.69	-1.12	0.63	1.00	-0.69	-3.90	-5.49	-6.41	-11.87	-22.62
60	-15.86	-10.04	-5.20	-2.79	-1.27	0.49	0.94	-0.74	-4.00	-5.73	-6.66	-12.08	-22.59
75	-16.77	-10.16	-5.33	-2.96	-1.46	0.36	0.84	-0.80	-4.09	-5.84	-6.69	-11.88	-22.99
90	-17.92	-10.17	-5.44	-3.15	-1.69	0.19	0.75	-0.83	-4.06	-5.79	-6.56	-11.31	-22.54
105	-19.04	-10.10	-5.44	-3.24	-1.86	0.06	0.68	-0.83	-4.01	-5.65	-6.18	-10.44	-20.70
120	-19.77	-9.82	-5.35	-3.24	-1.95	0.01	0.70	-0.77	-3.90	-5.34	-5.67	-9.39	-18.06
135	-20.06	-9.56	-5.18	-3.17	-1.92	0.07	0.77	-0.67	-3.73	-4.99	-5.16	-8.46	-16.05
150	-19.96	-9.34	-5.05	-3.09	-1.86	0.16	0.91	-0.53	-3.55	-4.65	-4.63	-7.59	-14.41
165	-20.23	-9.21	-4.97	-3.10	-1.83	0.26	1.05	-0.39	-3.39	-4.31	-4.19	-6.88	-13.17
180	-20.73	-9.24	-5.01	-3.18	-1.88	0.32	1.16	-0.27	-3.22	-4.11	-3.83	-6.37	-12.42
195	-21.31	-9.45	-5.15	-3.37	-2.00	0.33	1.21	-0.20	-3.16	-3.93	-3.61	-6.01	-11.99
210	-22.50	-9.73	-5.42	-3.67	-2.22	0.25	1.19	-0.20	-3.13	-3.84	-3.49	-5.86	-11.95
225	-23.23	-10.16	-5.74	-3.98	-2.47	0.12	1.09	-0.30	-3.20	-3.86	-3.52	-5.90	-12.25
240	-23.15	-10.57	-6.07	-4.33	-2.75	-0.04	0.99	-0.44	-3.35	-3.98	-3.62	-6.07	-12.84
255	-22.30	-10.98	-6.40	-4.64	-2.95	-0.18	0.82	-0.62	-3.57	-4.13	-3.79	-6.37	-13.85
270	-20.80	-11.06	-6.57	-4.80	-3.01	-0.24	0.69	-0.84	-3.78	-4.27	-3.99	-6.72	-15.28
285	-19.33	-11.04	-6.57	-4.79	-2.94	-0.22	0.65	-0.97	-3.88	-4.31	-4.13	-7.08	-16.99
300	-17.99	-10.81	-6.37	-4.54	-2.70	-0.09	0.68	-0.99	-3.89	-4.31	-4.25	-7.44	-18.99
315	-16.98	-10.53	-6.12	-4.22	-2.37	0.09	0.76	-0.94	-3.82	-4.30	-4.38	-7.90	-21.86
330	-16.11	-10.19	-5.80	-3.79	-2.01	0.28	0.85	-0.92	-3.72	-4.34	-4.58	-8.38	-25.47
345	-15.48	-9.94	-5.45	-3.39	-1.69	0.46	0.95	-0.72	-3.68	-4.45	-4.86	-8.96	-29.48
360	-14.87	-9.71	-5.18	-2.94	-1.28	0.60	1.05	-0.65	-3.67	-4.71	-5.33	-9.95	-27.81
Avg.	-18.07	-10.19	-5.69	-3.65	-2.12	0.05	0.73	-0.82	-3.84	-4.82	-4.93	-8.23	-16.38
Peak Value		1.209		Minimum Value -29.481									



Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.27	-16.72	-19.53	-31.63	-20.26	-15.35	-16.18	-20.60	-18.95	-16.19	-16.77	-18.91	-19.01
15	-15.43	-15.97	-18.37	-25.33	-21.17	-16.91	-18.35	-23.13	-18.55	-15.97	-16.95	-19.89	-20.48
30	-13.96	-14.70	-16.31	-19.50	-20.72	-19.33	-22.76	-22.57	-17.25	-15.60	-17.40	-21.43	-23.31
45	-12.82	-13.17	-14.42	-16.48	-18.53	-20.53	-23.15	-18.39	-15.50	-15.23	-17.74	-23.22	-26.84
60	-11.82	-11.98	-12.64	-14.07	-16.13	-18.71	-18.08	-14.96	-13.81	-14.95	-18.33	-24.97	-30.97
75	-11.11	-11.09	-11.50	-12.44	-14.36	-16.11	-14.69	-12.45	-12.40	-14.38	-18.36	-24.41	-28.12
90	-10.59	-10.50	-10.61	-11.51	-13.13	-14.27	-12.47	-10.83	-11.24	-13.89	-18.22	-23.04	-25.03
105	-10.42	-10.22	-10.26	-11.05	-12.67	-13.26	-11.34	-9.85	-10.60	-13.59	-18.09	-22.00	-23.47
120	-10.52	-10.31	-10.23	-11.09	-12.92	-13.25	-10.98	-9.56	-10.33	-13.43	-17.97	-21.18	-22.53
135	-10.89	-10.61	-10.66	-11.63	-13.79	-13.95	-11.24	-10.24	-10.54	-13.73	-18.30	-21.29	-22.68
150	-11.49	-11.21	-11.34	-12.55	-15.33	-15.62	-12.17	-10.98	-11.16	-14.40	-19.32	-22.12	-23.66
165	-12.37	-11.98	-12.10	-13.60	-17.19	-18.45	-13.93	-12.08	-12.38	-15.84	-21.59	-23.99	-24.54
180	-13.33	-12.81	-12.91	-14.62	-19.06	-23.50	-16.76	-13.86	-14.18	-18.23	-26.54	-25.32	-24.14
195	-14.63	-13.94	-13.83	-15.61	-20.09	-34.08	-21.20	-17.17	-17.08	-21.96	-41.56	-24.49	-22.20
210	-15.86	-14.98	-14.94	-16.67	-20.11	-25.30	-27.16	-22.37	-22.29	-26.57	-28.91	-21.87	-19.93
225	-17.36	-16.17	-16.11	-17.95	-19.60	-19.89	-22.35	-29.51	-32.23	-24.77	-21.67	-19.04	-17.79
240	-18.62	-17.37	-17.54	-20.12	-19.21	-16.57	-17.17	-21.65	-24.69	-20.08	-18.16	-16.95	-16.31
255	-19.45	-18.27	-19.11	-23.44	-18.70	-14.46	-14.11	-16.67	-19.00	-17.20	-16.06	-15.74	-15.39
270	-19.77	-18.60	-20.26	-29.78	-18.12	-12.91	-12.22	-14.19	-16.42	-15.52	-15.00	-14.96	-14.80
285	-19.76	-18.58	-20.70	-49.24	-17.29	-11.96	-11.12	-12.89	-15.30	-14.89	-14.64	-14.81	-14.61
300	-19.53	-18.49	-20.51	-31.90	-16.84	-11.57	-10.74	-12.58	-15.14	-14.92	-14.77	-15.10	-14.74
315	-19.32	-18.26	-20.10	-27.94	-16.66	-11.66	-10.97	-13.23	-15.88	-15.42	-15.27	-15.69	-15.26
330	-18.74	-18.16	-20.03	-28.66	-17.12	-12.22	-11.85	-14.51	-17.07	-16.01	-15.85	-16.43	-15.94
345	-17.91	-17.76	-20.35	-33.09	-17.98	-13.16	-13.16	-16.56	-18.29	-16.28	-16.35	-17.38	-16.97
360	-16.27	-16.72	-19.53	-31.63	-20.26	-15.35	-16.18	-20.60	-18.95	-16.19	-16.77	-18.91	-19.01
Avg.	-14.03	-13.79	-14.24	-15.87	-16.78	-15.18	-14.01	-13.97	-14.56	-15.95	-17.81	-19.00	-18.89
Peak Value	-9.561	Minimum Value -49.239											

RHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-15.43	-16.34	-9.81	-6.01	-3.67	-2.24	-2.27	-3.79	-6.29	-8.24	-10.11	-16.54	-20.58
15	-14.61	-15.93	-9.66	-5.79	-3.45	-2.03	-2.02	-3.44	-5.92	-8.00	-10.12	-16.63	-19.73
30	-13.51	-15.56	-9.63	-5.66	-3.25	-1.79	-1.73	-3.01	-5.39	-7.60	-9.89	-16.48	-20.88
45	-12.85	-15.31	-9.76	-5.75	-3.23	-1.66	-1.49	-2.69	-4.95	-7.19	-9.57	-15.86	-22.54
60	-12.46	-15.39	-10.27	-6.06	-3.43	-1.74	-1.36	-2.47	-4.58	-6.85	-9.20	-14.92	-24.94
75	-12.42	-15.71	-10.84	-6.58	-3.81	-1.90	-1.44	-2.38	-4.36	-6.43	-8.58	-13.67	-26.55
90	-12.70	-16.45	-11.71	-7.23	-4.36	-2.27	-1.63	-2.43	-4.18	-6.03	-8.01	-12.46	-25.07
105	-13.33	-17.49	-12.48	-7.93	-4.96	-2.71	-1.93	-2.58	-4.15	-5.75	-7.40	-11.42	-22.45
120	-14.22	-18.72	-12.94	-8.38	-5.46	-3.15	-2.26	-2.97	-4.20	-5.47	-6.84	-10.43	-19.55
135	-15.33	-19.57	-12.84	-8.41	-5.62	-3.35	-2.51	-3.27	-4.29	-5.30	-6.45	-9.80	-18.01
150	-16.69	-19.87	-12.36	-8.13	-5.47	-3.36	-2.61	-3.37	-4.43	-5.24	-6.17	-9.31	-17.05
165	-18.19	-19.39	-11.79	-7.74	-5.16	-3.15	-2.55	-3.38	-4.61	-5.30	-6.10	-9.17	-16.82
180	-19.63	-18.81	-11.32	-7.38	-4.83	-2.86	-2.40	-3.38	-4.80	-5.57	-6.24	-9.24	-17.09
195	-21.28	-18.36	-11.02	-7.15	-4.53	-2.59	-2.24	-3.38	-5.10	-5.92	-6.52	-9.51	-17.91
210	-22.45	-18.02	-10.85	-7.07	-4.39	-2.41	-2.16	-3.46	-5.47	-6.37	-6.97	-10.06	-19.34
225	-23.75	-18.14	-10.94	-7.15	-4.40	-2.39	-2.16	-3.61	-5.92	-7.06	-7.66	-10.89	-21.72
240	-24.66	-18.29	-11.13	-7.35	-4.55	-2.48	-2.28	-3.88	-6.50	-7.88	-8.41	-11.87	-24.81
255	-25.26	-18.68	-11.35	-7.58	-4.74	-2.70	-2.58	-4.30	-7.23	-8.73	-9.20	-12.87	-29.07
270	-25.55	-18.76	-11.50	-7.78	-4.96	-2.96	-2.91	-4.80	-7.95	-9.52	-9.86	-13.84	-31.87
285	-24.94	-18.77	-11.48	-7.84	-5.11	-3.21	-3.23	-5.24	-8.46	-9.91	-10.21	-14.53	-28.56
300	-23.59	-18.44	-11.27	-7.76	-5.15	-3.32	-3.39	-5.46	-8.62	-9.91	-10.33	-14.95	-25.79
315	-21.47	-18.13	-11.03	-7.51	-4.99	-3.26	-3.39	-5.37	-8.33	-9.61	-10.26	-15.38	-23.75
330	-19.51	-17.56	-10.68	-7.09	-4.66	-3.04	-3.15	-5.06	-7.77	-9.16	-10.20	-15.74	-22.25
345	-17.57	-17.09	-10.18	-6.62	-4.27	-2.70	-2.82	-4.43	-7.16	-8.76	-10.15	-16.10	-21.26
360	-15.43	-16.34	-9.81	-6.01	-3.67	-2.24	-2.27	-3.79	-6.29	-8.24	-10.11	-16.54	-20.58
Avg.	-16.51	-17.65	-11.20	-7.26	-4.64	-2.78	-2.49	-3.75	-5.80	-7.23	-8.41	-12.38	-21.06
Peak Value	-1.365	Minimum Value -31.872											

LHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-15.60	-9.79	-6.78	-5.88	-4.89	-2.36	-1.52	-3.45	-6.85	-6.74	-6.65	-10.37	-22.61
15	-15.66	-9.65	-6.64	-5.74	-4.96	-2.57	-1.79	-3.81	-7.39	-7.22	-7.09	-11.13	-26.34
30	-15.54	-9.50	-6.43	-5.53	-5.05	-2.88	-2.20	-4.35	-8.32	-8.13	-7.86	-12.27	-28.18
45	-15.13	-9.13	-6.15	-5.30	-5.06	-3.17	-2.57	-4.83	-9.39	-9.15	-8.71	-13.58	-27.04
60	-14.55	-8.74	-5.81	-4.99	-4.98	-3.36	-2.79	-5.11	-10.40	-10.32	-9.57	-14.82	-25.08
75	-13.85	-8.32	-5.50	-4.65	-4.75	-3.31	-2.76	-5.06	-10.92	-11.60	-10.44	-15.92	-23.61
90	-13.03	-7.89	-5.16	-4.37	-4.43	-3.10	-2.55	-4.71	-10.69	-12.60	-11.10	-16.54	-22.52
105	-12.46	-7.57	-4.90	-4.07	-4.13	-2.81	-2.21	-4.22	-10.02	-13.00	-11.28	-16.10	-21.36
120	-12.12	-7.35	-4.74	-3.91	-3.92	-2.48	-1.80	-3.54	-9.21	-12.70	-10.97	-14.93	-19.95
135	-12.07	-7.29	-4.72	-3.91	-3.87	-2.27	-1.49	-3.19	-8.55	-11.89	-10.31	-13.45	-18.42
150	-12.24	-7.41	-4.84	-4.07	-4.00	-2.18	-1.28	-2.97	-8.03	-10.98	-9.41	-11.98	-16.82
165	-12.82	-7.65	-5.04	-4.37	-4.31	-2.27	-1.20	-2.87	-7.68	-9.93	-8.45	-10.55	-15.09
180	-13.56	-8.01	-5.34	-4.78	-4.79	-2.50	-1.25	-2.83	-7.36	-9.00	-7.49	-9.41	-13.80
195	-14.64	-8.56	-5.72	-5.30	-5.40	-2.78	-1.36	-2.88	-7.13	-8.10	-6.72	-8.46	-12.75
210	-15.87	-9.12	-6.25	-5.94	-6.09	-3.11	-1.50	-2.93	-6.82	-7.34	-6.05	-7.76	-12.05
225	-17.24	-9.78	-6.76	-6.52	-6.70	-3.36	-1.66	-3.01	-6.51	-6.63	-5.53	-7.26	-11.58
240	-18.19	-10.40	-7.27	-7.11	-7.18	-3.47	-1.65	-3.00	-6.17	-6.08	-5.15	-6.94	-11.42
255	-18.46	-10.91	-7.75	-7.61	-7.34	-3.38	-1.59	-2.87	-5.80	-5.66	-4.92	-6.87	-11.62
270	-17.94	-11.03	-7.99	-7.81	-7.07	-3.09	-1.42	-2.75	-5.51	-5.36	-4.85	-6.92	-12.07
285	-17.20	-11.01	-8.02	-7.76	-6.60	-2.70	-1.17	-2.58	-5.29	-5.21	-4.87	-7.13	-12.74
300	-16.45	-10.82	-7.83	-7.34	-5.99	-2.34	-0.99	-2.46	-5.21	-5.21	-5.00	-7.47	-13.61
315	-16.09	-10.55	-7.56	-6.94	-5.47	-2.10	-0.90	-2.51	-5.32	-5.36	-5.23	-7.96	-14.94
330	-15.74	-10.29	-7.28	-6.51	-5.12	-2.00	-0.98	-2.73	-5.57	-5.65	-5.55	-8.49	-16.51
345	-15.69	-10.06	-7.03	-6.19	-4.95	-2.05	-1.14	-2.94	-6.00	-6.03	-5.96	-9.18	-18.62
360	-15.60	-9.79	-6.78	-5.88	-4.89	-2.36	-1.52	-3.45	-6.85	-6.74	-6.65	-10.37	-22.61
Avg.	-14.84	-9.20	-6.35	-5.69	-5.36	-2.89	-1.80	-3.50	-7.34	-7.80	-7.13	-9.79	-15.51
Peak Value		-0.903		Minimum Value		-28.180							

AR													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	40.14	8.88	15.27	43.06	23.10	43.63	27.35	34.20	29.82	21.31	14.12	9.34	18.68
15	24.42	9.20	15.29	49.75	21.25	30.25	37.34	33.49	21.43	26.86	15.27	10.28	8.81
30	18.69	9.49	14.79	42.35	19.70	24.01	31.45	22.30	15.56	30.34	18.69	12.48	8.02
45	17.70	9.33	13.77	31.80	19.57	21.23	24.15	18.24	12.04	19.01	26.12	17.68	11.93
60	18.44	8.76	11.99	24.30	21.00	20.61	21.71	16.42	9.81	14.11	33.51	45.49	41.63
75	21.70	7.93	10.51	19.12	25.30	21.89	22.38	16.30	8.86	10.77	19.41	17.81	15.51
90	34.41	6.81	8.86	15.76	47.88	26.41	25.48	17.68	8.92	8.85	15.08	12.73	16.75
105	26.09	5.75	7.73	13.22	26.51	44.94	35.86	20.50	9.74	8.07	13.17	11.60	24.10
120	18.37	4.81	7.13	11.97	21.07	28.27	31.60	29.65	11.04	8.09	12.65	11.93	32.90
135	14.63	4.31	7.21	11.92	19.95	24.12	24.62	46.59	12.37	8.83	13.20	13.67	32.41
150	12.02	4.22	7.79	12.78	21.48	23.38	22.31	32.71	13.82	9.92	14.70	16.35	37.82
165	10.47	4.60	8.63	14.35	26.20	25.84	22.16	30.75	15.15	11.69	17.43	22.01	20.09
180	9.48	5.15	9.59	16.54	52.52	33.64	23.59	29.89	16.69	14.20	22.84	39.93	14.56
195	8.77	5.83	10.57	19.51	26.03	39.46	25.86	30.78	18.66	18.06	38.69	24.34	10.78
210	8.83	6.53	11.74	23.76	20.22	28.00	28.43	30.22	22.19	25.03	25.58	17.63	8.04
225	8.91	6.99	12.55	28.76	17.64	24.99	30.77	29.25	29.40	32.18	18.27	13.72	5.59
240	8.97	7.43	13.21	37.21	16.46	24.91	28.78	25.98	34.49	19.75	14.64	11.17	3.78
255	8.58	7.55	13.80	56.53	16.55	28.25	24.88	21.73	21.73	15.14	12.34	9.56	2.34
270	7.70	7.58	14.00	54.80	18.36	42.42	21.30	18.61	17.09	12.58	11.03	8.44	1.78
285	7.58	7.55	14.15	45.78	21.31	30.65	18.57	16.35	14.87	11.57	10.53	7.92	2.84
300	8.19	7.69	14.19	32.43	26.30	25.05	17.27	15.34	14.25	11.56	10.54	7.83	4.36
315	10.45	7.73	14.11	29.68	31.26	23.54	16.95	15.74	15.30	12.40	11.00	7.89	6.60
330	13.41	8.05	14.28	29.47	31.63	24.45	18.10	17.50	17.99	14.01	11.66	8.08	9.93
345	19.35	8.32	14.92	32.06	28.11	28.54	20.32	21.37	23.46	16.13	12.51	8.44	16.43
360	40.14	8.88	15.27	43.06	23.10	43.63	27.35	34.20	29.82	21.31	14.12	9.34	18.68
Avg.	27.61	7.20	12.51	45.73	39.95	35.62	28.64	33.80	23.67	22.24	26.51	32.66	29.99
Peak Value		#####		Minimum Value		1.784							

503.3 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-11.35	-8.05	-4.21	-2.12	-0.43	1.54	1.96	0.26	-2.61	-3.45	-4.06	-8.37	-17.13
15	-10.87	-7.85	-4.03	-1.94	-0.32	1.54	1.94	0.25	-2.64	-3.60	-4.37	-9.01	-18.13
30	-10.09	-7.56	-3.88	-1.75	-0.24	1.52	1.90	0.25	-2.66	-3.86	-4.75	-9.83	-19.51
45	-9.49	-7.19	-3.73	-1.68	-0.23	1.46	1.84	0.27	-2.65	-4.06	-5.10	-10.42	-20.90
60	-8.91	-6.79	-3.57	-1.62	-0.29	1.36	1.81	0.31	-2.56	-4.20	-5.35	-10.75	-21.67
75	-8.59	-6.47	-3.45	-1.63	-0.41	1.28	1.80	0.41	-2.46	-4.24	-5.38	-10.58	-21.05
90	-8.33	-6.18	-3.32	-1.67	-0.55	1.18	1.81	0.52	-2.28	-4.15	-5.26	-9.94	-19.57
105	-8.31	-5.98	-3.21	-1.67	-0.67	1.08	1.82	0.64	-2.12	-3.97	-4.91	-9.08	-17.66
120	-8.49	-5.93	-3.14	-1.71	-0.76	1.04	1.85	0.71	-1.98	-3.71	-4.43	-8.07	-15.59
135	-8.84	-5.95	-3.14	-1.73	-0.84	1.04	1.91	0.73	-1.91	-3.44	-3.98	-7.23	-14.00
150	-9.44	-6.11	-3.22	-1.80	-0.87	1.08	1.97	0.77	-1.87	-3.22	-3.54	-6.47	-12.81
165	-10.21	-6.35	-3.34	-1.93	-0.94	1.11	2.02	0.80	-1.91	-3.09	-3.17	-5.85	-11.88
180	-11.19	-6.69	-3.50	-2.09	-1.07	1.11	2.05	0.79	-1.98	-3.01	-2.90	-5.36	-11.10
195	-12.43	-7.18	-3.78	-2.35	-1.21	1.10	2.05	0.76	-2.08	-2.97	-2.71	-5.00	-10.56
210	-13.66	-7.76	-4.16	-2.71	-1.45	1.02	2.02	0.69	-2.20	-2.94	-2.60	-4.84	-10.30
225	-15.08	-8.44	-4.58	-3.09	-1.67	0.95	1.93	0.59	-2.33	-2.97	-2.54	-4.76	-10.10
240	-16.03	-8.99	-5.04	-3.51	-1.92	0.85	1.88	0.47	-2.44	-2.97	-2.57	-4.79	-10.13
255	-16.34	-9.38	-5.44	-3.87	-2.11	0.80	1.80	0.36	-2.54	-3.00	-2.60	-4.92	-10.33
270	-15.87	-9.57	-5.61	-4.07	-2.12	0.83	1.78	0.27	-2.63	-3.02	-2.71	-5.12	-10.68
285	-15.24	-9.49	-5.61	-4.03	-1.99	0.93	1.80	0.24	-2.64	-3.02	-2.82	-5.40	-11.26
300	-14.49	-9.26	-5.43	-3.79	-1.73	1.07	1.86	0.22	-2.65	-3.02	-2.93	-5.75	-11.95
315	-13.79	-8.92	-5.14	-3.41	-1.40	1.23	1.91	0.21	-2.62	-3.05	-3.10	-6.17	-12.96
330	-13.10	-8.65	-4.83	-2.99	-1.05	1.38	1.95	0.17	-2.61	-3.10	-3.32	-6.73	-14.03
345	-12.35	-8.39	-4.50	-2.59	-0.77	1.47	1.96	0.28	-2.61	-3.23	-3.60	-7.40	-15.31
360	-11.35	-8.05	-4.21	-2.12	-0.43	1.54	1.96	0.26	-2.61	-3.45	-4.06	-8.37	-17.13
Avg.	-11.18	-7.63	-4.26	-2.59	-1.18	0.99	1.72	0.29	-2.54	-3.54	-3.76	-6.89	-13.29
Peak Value		2.049		Minimum Value -21.673									

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.17	-8.98	-4.39	-2.13	-0.49	1.41	1.87	0.21	-2.77	-3.80	-4.38	-8.94	-27.87
15	-14.04	-8.94	-4.27	-1.97	-0.37	1.46	1.88	0.22	-2.81	-3.98	-4.71	-9.53	-25.36
30	-14.13	-8.99	-4.25	-1.86	-0.29	1.47	1.88	0.22	-2.90	-4.30	-5.10	-10.24	-23.10
45	-14.50	-9.15	-4.30	-1.89	-0.32	1.42	1.82	0.18	-3.00	-4.59	-5.45	-10.75	-22.74
60	-15.18	-9.30	-4.42	-2.00	-0.46	1.30	1.75	0.12	-3.08	-4.80	-5.69	-11.00	-22.49
75	-16.17	-9.46	-4.56	-2.18	-0.67	1.17	1.65	0.08	-3.17	-4.92	-5.72	-10.86	-22.62
90	-17.33	-9.48	-4.67	-2.37	-0.91	0.99	1.58	0.05	-3.17	-4.90	-5.60	-10.28	-21.88
105	-18.50	-9.41	-4.65	-2.45	-1.08	0.85	1.51	0.06	-3.12	-4.73	-5.25	-9.44	-19.79
120	-19.32	-9.19	-4.56	-2.49	-1.16	0.81	1.51	0.09	-3.00	-4.44	-4.73	-8.39	-17.09
135	-19.63	-8.86	-4.41	-2.41	-1.16	0.84	1.60	0.21	-2.85	-4.08	-4.23	-7.48	-14.95
150	-19.76	-8.64	-4.30	-2.36	-1.10	0.95	1.73	0.35	-2.66	-3.73	-3.71	-6.64	-13.35
165	-20.13	-8.53	-4.25	-2.37	-1.09	1.04	1.86	0.48	-2.49	-3.44	-3.26	-5.94	-12.20
180	-20.51	-8.56	-4.26	-2.44	-1.16	1.09	1.97	0.59	-2.35	-3.20	-2.92	-5.42	-11.39
195	-21.46	-8.76	-4.43	-2.65	-1.29	1.10	2.02	0.67	-2.27	-3.06	-2.71	-5.07	-11.02
210	-22.66	-9.11	-4.70	-2.95	-1.53	1.01	2.01	0.67	-2.25	-2.97	-2.62	-4.96	-11.02
225	-23.50	-9.59	-5.02	-3.28	-1.77	0.90	1.91	0.58	-2.33	-3.01	-2.62	-5.01	-11.32
240	-23.21	-9.98	-5.38	-3.63	-2.04	0.73	1.79	0.43	-2.49	-3.10	-2.75	-5.18	-11.95
255	-21.87	-10.29	-5.70	-3.93	-2.25	0.60	1.63	0.22	-2.69	-3.26	-2.89	-5.48	-12.92
270	-20.15	-10.42	-5.83	-4.08	-2.28	0.54	1.51	0.03	-2.92	-3.39	-3.09	-5.81	-14.24
285	-18.66	-10.36	-5.81	-4.03	-2.18	0.58	1.46	-0.09	-3.01	-3.45	-3.24	-6.16	-15.92
300	-17.27	-10.11	-5.64	-3.81	-1.93	0.71	1.49	-0.13	-3.03	-3.44	-3.35	-6.53	-17.82
315	-16.19	-9.73	-5.36	-3.43	-1.59	0.90	1.58	-0.09	-2.93	-3.42	-3.48	-6.91	-20.62
330	-15.35	-9.45	-5.02	-3.02	-1.20	1.10	1.68	-0.05	-2.84	-3.42	-3.66	-7.43	-24.09
345	-14.75	-9.19	-4.67	-2.60	-0.88	1.25	1.77	0.15	-2.78	-3.54	-3.93	-8.02	-28.09
360	-14.17	-8.98	-4.39	-2.13	-0.49	1.41	1.87	0.21	-2.77	-3.80	-4.38	-8.94	-27.87
Avg.	-17.47	-9.50	-4.93	-2.89	-1.35	0.84	1.55	0.05	-2.96	-3.92	-4.02	-7.29	-15.44
Peak Value		2.023		Minimum Value -28.086									

Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.57	-15.19	-18.10	-31.19	-18.66	-13.80	-14.60	-18.97	-17.17	-14.59	-15.44	-17.51	-17.51
15	-13.73	-14.40	-16.80	-23.69	-19.57	-15.36	-16.84	-21.29	-16.79	-14.39	-15.56	-18.53	-19.04
30	-12.27	-13.07	-14.76	-17.83	-18.99	-17.81	-21.22	-20.62	-15.42	-14.00	-15.88	-20.28	-22.01
45	-11.13	-11.59	-12.81	-14.85	-16.94	-18.89	-21.43	-16.71	-13.78	-13.46	-16.12	-21.79	-25.52
60	-10.07	-10.37	-11.05	-12.45	-14.42	-16.92	-16.38	-13.38	-12.09	-13.16	-16.58	-23.25	-29.32
75	-9.42	-9.50	-9.92	-10.85	-12.67	-14.50	-13.04	-10.90	-10.71	-12.61	-16.59	-22.68	-26.25
90	-8.91	-8.92	-9.06	-9.95	-11.52	-12.60	-10.90	-9.31	-9.62	-12.13	-16.43	-21.18	-23.41
105	-8.75	-8.61	-8.70	-9.49	-11.11	-11.75	-9.78	-8.33	-8.99	-11.89	-16.19	-20.07	-21.77
120	-8.86	-8.71	-8.68	-9.54	-11.33	-11.70	-9.42	-8.05	-8.79	-11.80	-16.19	-19.50	-20.94
135	-9.22	-9.06	-9.07	-10.09	-12.25	-12.50	-9.77	-8.76	-9.00	-12.06	-16.55	-19.68	-21.06
150	-9.86	-9.66	-9.80	-11.00	-13.80	-14.28	-10.75	-9.57	-9.66	-12.81	-17.60	-20.63	-22.14
165	-10.67	-10.39	-10.57	-12.09	-15.73	-17.18	-12.50	-10.71	-10.92	-14.21	-20.11	-22.68	-23.33
180	-11.73	-11.25	-11.41	-13.16	-17.70	-22.74	-15.48	-12.60	-12.78	-16.68	-25.23	-24.18	-22.89
195	-13.01	-12.33	-12.36	-14.20	-18.75	-33.42	-20.12	-16.03	-15.68	-20.34	-42.96	-23.12	-20.61
210	-14.24	-13.48	-13.45	-15.36	-18.65	-22.93	-25.56	-21.79	-21.17	-24.52	-27.14	-20.38	-18.45
225	-15.75	-14.76	-14.71	-16.75	-18.09	-17.91	-20.09	-27.78	-29.82	-22.64	-20.00	-17.38	-16.21
240	-16.95	-15.87	-16.25	-19.08	-17.62	-14.71	-15.19	-19.35	-22.12	-18.12	-16.51	-15.41	-14.78
255	-17.77	-16.61	-17.76	-22.89	-17.14	-12.61	-12.27	-14.72	-16.98	-15.44	-14.44	-14.12	-13.80
270	-17.91	-17.07	-18.77	-29.87	-16.38	-11.14	-10.50	-12.38	-14.56	-13.84	-13.46	-13.45	-13.20
285	-17.87	-16.92	-19.10	-40.90	-15.59	-10.23	-9.42	-11.13	-13.48	-13.28	-13.18	-13.35	-13.08
300	-17.74	-16.77	-18.65	-28.68	-15.10	-9.94	-9.08	-10.97	-13.47	-13.33	-13.34	-13.59	-13.26
315	-17.51	-16.61	-18.38	-25.80	-14.99	-10.04	-9.38	-11.62	-14.25	-13.86	-13.85	-14.21	-13.77
330	-17.04	-16.38	-18.49	-26.02	-15.52	-10.61	-10.25	-12.96	-15.45	-14.55	-14.49	-15.05	-14.48
345	-16.07	-16.10	-18.76	-31.18	-16.49	-11.63	-11.66	-15.05	-16.73	-14.80	-14.99	-16.10	-15.54
360	-14.57	-15.19	-18.10	-31.19	-18.66	-13.80	-14.60	-18.97	-17.17	-14.59	-15.44	-17.51	-17.51
Avg.	-12.35	-12.21	-12.70	-14.34	-15.19	-13.56	-12.41	-12.44	-12.95	-14.29	-16.26	-17.51	-17.37
Peak Value		-8.047		Minimum Value		-42.956							

RHCP															
$\phi$ [deg]	$\Theta$ [deg]														
	0	15	30	45	60	75	90	105	120	135	150	165	180		
0	-14.19	-15.95	-9.16	-5.21	-2.83	-1.43	-1.47	-2.94	-5.33	-7.36	-9.27	-15.78	-19.53		
15	-13.24	-15.44	-8.98	-4.98	-2.58	-1.17	-1.20	-2.54	-4.91	-7.06	-9.26	-15.79	-19.55		
30	-12.13	-14.89	-8.97	-4.83	-2.36	-0.92	-0.85	-2.07	-4.35	-6.60	-8.96	-15.48	-20.23		
45	-11.42	-14.43	-9.13	-4.91	-2.35	-0.79	-0.61	-1.71	-3.87	-6.16	-8.58	-14.69	-22.11		
60	-10.96	-14.32	-9.56	-5.21	-2.50	-0.83	-0.47	-1.48	-3.45	-5.76	-8.17	-13.75	-24.56		
75	-10.88	-14.55	-10.18	-5.77	-2.90	-1.01	-0.52	-1.36	-3.20	-5.32	-7.53	-12.51	-25.47		
90	-11.07	-15.20	-11.07	-6.46	-3.50	-1.38	-0.70	-1.42	-3.04	-4.92	-6.92	-11.28	-23.46		
105	-11.61	-16.19	-11.88	-7.20	-4.11	-1.86	-1.01	-1.54	-3.00	-4.62	-6.31	-10.22	-20.65		
120	-12.44	-17.62	-12.55	-7.74	-4.64	-2.30	-1.39	-1.97	-3.05	-4.35	-5.75	-9.28	-18.08		
135	-13.46	-18.83	-12.54	-7.84	-4.86	-2.56	-1.64	-2.29	-3.18	-4.18	-5.38	-8.68	-16.56		
150	-14.73	-19.59	-12.04	-7.55	-4.72	-2.57	-1.78	-2.41	-3.33	-4.14	-5.13	-8.26	-15.68		
165	-15.97	-19.43	-11.48	-7.17	-4.41	-2.38	-1.76	-2.45	-3.54	-4.26	-5.10	-8.17	-15.69		
180	-17.56	-18.97	-10.91	-6.72	-4.06	-2.07	-1.62	-2.48	-3.81	-4.55	-5.30	-8.25	-16.02		
195	-19.04	-18.52	-10.57	-6.51	-3.75	-1.78	-1.46	-2.50	-4.09	-4.96	-5.64	-8.59	-17.18		
210	-20.07	-18.13	-10.41	-6.37	-3.60	-1.62	-1.36	-2.59	-4.53	-5.48	-6.14	-9.25	-18.78		
225	-21.45	-18.38	-10.48	-6.48	-3.59	-1.56	-1.37	-2.75	-5.03	-6.26	-6.87	-10.18	-21.62		
240	-22.34	-18.53	-10.65	-6.64	-3.71	-1.68	-1.53	-3.06	-5.65	-7.12	-7.73	-11.21	-25.47		
255	-23.34	-18.84	-10.88	-6.87	-3.93	-1.90	-1.83	-3.53	-6.43	-8.06	-8.55	-12.31	-30.87		
270	-23.90	-18.86	-10.99	-7.09	-4.15	-2.18	-2.19	-4.03	-7.22	-8.92	-9.23	-13.22	-30.67		
285	-23.42	-18.87	-10.94	-7.13	-4.32	-2.44	-2.53	-4.51	-7.78	-9.34	-9.59	-13.88	-26.59		
300	-22.36	-18.53	-10.80	-7.07	-4.35	-2.55	-2.71	-4.72	-7.94	-9.32	-9.66	-14.38	-24.01		
315	-20.43	-17.99	-10.50	-6.77	-4.19	-2.50	-2.67	-4.64	-7.57	-8.97	-9.58	-14.67	-22.02		
330	-18.32	-17.57	-10.07	-6.36	-3.87	-2.26	-2.43	-4.29	-6.98	-8.39	-9.46	-15.06	-20.76		
345	-16.30	-16.91	-9.58	-5.83	-3.43	-1.94	-2.08	-3.60	-6.28	-7.91	-9.39	-15.39	-19.91		
360	-14.19	-15.95	-9.16	-5.21	-2.83	-1.43	-1.47	-2.94	-5.33	-7.36	-9.27	-15.78	-19.53		
Avg.	-14.90	-17.18	-10.66	-6.53	-3.81	-1.96	-1.68	-2.85	-4.79	-6.26	-7.50	-11.44	-20.02		
Peak Value		-0.473		Minimum Value								-30.865			

LHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.54	-8.82	-5.88	-5.06	-4.14	-1.51	-0.66	-2.57	-5.94	-5.72	-5.61	-9.24	-20.85
15	-14.63	-8.68	-5.71	-4.92	-4.23	-1.78	-0.95	-2.99	-6.55	-6.21	-6.07	-10.04	-23.67
30	-14.36	-8.44	-5.49	-4.70	-4.36	-2.15	-1.39	-3.58	-7.58	-7.16	-6.82	-11.21	-27.68
45	-13.94	-8.10	-5.20	-4.47	-4.36	-2.46	-1.80	-4.08	-8.75	-8.22	-7.68	-12.45	-27.04
60	-13.15	-7.64	-4.83	-4.13	-4.28	-2.65	-2.06	-4.40	-9.88	-9.41	-8.56	-13.77	-24.81
75	-12.46	-7.21	-4.49	-3.75	-4.01	-2.59	-2.04	-4.32	-10.51	-10.82	-9.46	-15.03	-23.01
90	-11.62	-6.76	-4.12	-3.42	-3.62	-2.34	-1.76	-3.91	-10.27	-12.05	-10.24	-15.72	-21.84
105	-11.05	-6.42	-3.85	-3.09	-3.29	-2.01	-1.38	-3.38	-9.49	-12.54	-10.52	-15.45	-20.69
120	-10.72	-6.24	-3.67	-2.95	-3.05	-1.65	-0.95	-2.65	-8.59	-12.31	-10.25	-14.20	-19.20
135	-10.68	-6.18	-3.66	-2.95	-3.03	-1.45	-0.63	-2.27	-7.87	-11.50	-9.60	-12.69	-17.50
150	-10.97	-6.31	-3.83	-3.15	-3.18	-1.37	-0.41	-2.08	-7.32	-10.43	-8.68	-11.17	-15.97
165	-11.55	-6.57	-4.06	-3.47	-3.54	-1.48	-0.34	-1.98	-6.94	-9.38	-7.61	-9.68	-14.22
180	-12.32	-6.95	-4.36	-3.92	-4.10	-1.73	-0.40	-1.97	-6.62	-8.27	-6.62	-8.49	-12.78
195	-13.49	-7.51	-4.80	-4.46	-4.74	-2.04	-0.52	-2.02	-6.39	-7.32	-5.81	-7.50	-11.63
210	-14.78	-8.17	-5.33	-5.15	-5.53	-2.39	-0.65	-2.06	-6.02	-6.47	-5.14	-6.80	-10.97
225	-16.22	-8.90	-5.87	-5.74	-6.15	-2.62	-0.80	-2.12	-5.66	-5.71	-4.54	-6.24	-10.42
240	-17.19	-9.50	-6.44	-6.40	-6.62	-2.70	-0.77	-2.07	-5.26	-5.07	-4.15	-5.91	-10.26
255	-17.31	-9.90	-6.90	-6.89	-6.75	-2.55	-0.66	-1.92	-4.81	-4.63	-3.87	-5.79	-10.37
270	-16.62	-10.12	-7.10	-7.08	-6.39	-2.19	-0.45	-1.74	-4.49	-4.31	-3.81	-5.85	-10.72
285	-15.96	-10.02	-7.12	-6.95	-5.80	-1.76	-0.20	-1.53	-4.22	-4.17	-3.85	-6.06	-11.39
300	-15.26	-9.81	-6.91	-6.55	-5.16	-1.40	-0.01	-1.46	-4.18	-4.18	-3.97	-6.39	-12.23
315	-14.85	-9.50	-6.64	-6.09	-4.63	-1.15	0.05	-1.52	-4.30	-4.33	-4.20	-6.83	-13.53
330	-14.66	-9.25	-6.37	-5.68	-4.25	-1.08	-0.01	-1.76	-4.59	-4.62	-4.53	-7.42	-15.06
345	-14.59	-9.05	-6.11	-5.38	-4.16	-1.17	-0.22	-2.01	-5.05	-5.03	-4.93	-8.15	-17.16
360	-14.54	-8.82	-5.88	-5.06	-4.14	-1.51	-0.66	-2.57	-5.94	-5.72	-5.61	-9.24	-20.85
Avg.	-13.58	-8.15	-5.39	-4.83	-4.60	-2.07	-0.93	-2.60	-6.48	-6.86	-6.15	-8.77	-14.33
Peak Value		0.052		Minimum Value -27.684									

AR													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	33.87	8.21	14.59	40.99	22.52	46.36	26.54	33.30	29.13	20.48	13.65	8.89	22.42
15	21.99	8.62	14.61	49.82	20.48	29.07	36.78	31.70	20.53	26.20	14.80	9.91	12.66
30	17.86	9.00	14.06	42.62	18.79	23.01	30.08	21.24	14.73	29.89	18.23	12.34	7.86
45	16.84	9.14	13.06	31.92	18.78	20.38	23.26	17.36	11.25	18.57	25.65	17.86	11.18
60	18.02	8.71	11.51	24.13	19.85	19.60	20.79	15.56	9.02	13.67	32.98	62.00	36.87
75	20.84	7.97	9.99	18.71	23.91	20.89	21.20	15.45	8.02	10.27	19.09	16.82	17.02
90	30.11	6.92	8.41	15.24	43.03	25.12	24.31	16.91	8.09	8.21	14.48	12.03	20.64
105	29.87	5.85	7.29	12.68	26.56	41.28	33.27	19.54	8.95	7.40	12.48	10.69	54.64
120	20.09	4.80	6.54	11.40	20.80	28.57	31.96	28.12	10.21	7.37	11.92	11.20	23.85
135	16.00	4.13	6.54	11.23	19.57	23.88	24.71	62.18	11.59	8.01	12.45	12.88	25.28
150	13.43	3.83	7.13	12.12	21.10	23.28	22.05	34.43	12.92	9.18	13.90	15.62	35.41
165	12.07	4.03	7.89	13.56	26.04	25.68	21.77	31.38	14.28	10.85	16.85	21.20	21.47
180	10.68	4.45	8.87	15.95	52.03	34.10	23.06	30.57	15.89	13.50	22.36	37.16	14.69
195	10.21	5.03	9.87	18.57	24.91	36.63	25.35	31.11	17.62	17.39	40.25	24.05	10.21
210	10.58	5.72	10.93	23.09	19.14	27.05	27.86	30.21	21.33	24.93	24.84	17.08	7.50
225	10.67	6.07	11.72	27.50	16.68	24.26	29.66	28.74	28.79	30.00	17.50	13.03	4.91
240	10.81	6.41	12.48	37.34	15.61	24.65	27.28	24.84	32.84	18.59	13.85	10.57	3.05
255	9.53	6.50	12.95	62.74	15.88	28.51	23.44	20.71	20.67	14.20	11.60	8.91	1.65
270	8.04	6.66	13.15	63.83	17.84	66.47	20.02	17.66	16.15	11.72	10.39	7.94	1.75
285	7.86	6.57	13.29	39.62	21.40	28.13	17.51	15.40	13.89	10.79	9.94	7.50	3.05
300	8.23	6.68	13.14	30.51	26.64	23.59	16.22	14.63	13.43	10.83	10.00	7.33	4.58
315	10.15	6.87	13.21	28.04	31.97	22.21	16.18	15.01	14.59	11.66	10.44	7.48	6.87
330	13.66	7.02	13.55	28.15	32.99	23.42	17.18	16.78	17.27	13.40	11.16	7.68	10.00
345	20.15	7.45	14.12	31.69	27.57	27.02	19.45	20.80	23.02	15.69	12.01	8.08	16.08
360	33.87	8.21	14.59	40.99	22.52	46.36	26.54	33.30	29.13	20.48	13.65	8.89	22.42
Avg.	23.25	6.62	11.75	52.50	38.74	52.56	27.63	48.24	22.53	21.15	27.46	48.03	40.80
Peak Value		#####		Minimum Value 1.645									

504.6 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-11.13	-7.88	-4.00	-1.94	-0.25	1.74	2.18	0.53	-2.30	-3.16	-3.75	-8.03	-17.19
15	-10.63	-7.68	-3.86	-1.75	-0.13	1.73	2.15	0.51	-2.34	-3.31	-4.06	-8.65	-18.36
30	-9.81	-7.35	-3.68	-1.57	-0.04	1.71	2.10	0.51	-2.35	-3.53	-4.44	-9.42	-20.11
45	-9.19	-6.99	-3.52	-1.47	-0.02	1.66	2.05	0.53	-2.33	-3.72	-4.75	-10.05	-21.23
60	-8.61	-6.58	-3.37	-1.42	-0.10	1.54	2.03	0.60	-2.26	-3.87	-5.01	-10.27	-22.26
75	-8.24	-6.26	-3.26	-1.44	-0.21	1.48	2.02	0.68	-2.15	-3.91	-5.05	-10.09	-21.27
90	-7.97	-5.96	-3.12	-1.46	-0.36	1.36	2.02	0.80	-1.99	-3.84	-4.89	-9.49	-19.39
105	-7.97	-5.77	-3.05	-1.49	-0.50	1.29	2.03	0.90	-1.83	-3.65	-4.56	-8.67	-17.17
120	-8.13	-5.69	-2.97	-1.53	-0.60	1.22	2.07	1.00	-1.70	-3.38	-4.09	-7.70	-15.15
135	-8.51	-5.75	-2.97	-1.56	-0.68	1.22	2.12	1.03	-1.62	-3.14	-3.67	-6.84	-13.65
150	-9.18	-5.90	-3.04	-1.63	-0.75	1.24	2.18	1.08	-1.61	-2.94	-3.23	-6.10	-12.49
165	-9.94	-6.20	-3.17	-1.79	-0.82	1.26	2.24	1.05	-1.66	-2.80	-2.87	-5.51	-11.57
180	-10.96	-6.55	-3.38	-1.97	-0.94	1.27	2.24	1.05	-1.72	-2.75	-2.61	-5.01	-10.77
195	-12.19	-7.09	-3.66	-2.24	-1.10	1.26	2.25	0.99	-1.81	-2.69	-2.42	-4.70	-10.28
210	-13.47	-7.67	-4.06	-2.61	-1.34	1.17	2.21	0.94	-1.93	-2.67	-2.29	-4.51	-9.96
225	-14.87	-8.28	-4.49	-2.99	-1.58	1.11	2.13	0.85	-2.03	-2.69	-2.26	-4.46	-9.79
240	-15.79	-8.93	-4.99	-3.42	-1.83	1.03	2.09	0.72	-2.16	-2.72	-2.28	-4.48	-9.81
255	-16.11	-9.33	-5.31	-3.78	-2.00	0.96	2.02	0.63	-2.25	-2.73	-2.34	-4.63	-10.00
270	-15.59	-9.45	-5.50	-3.96	-2.00	0.99	2.00	0.54	-2.34	-2.75	-2.43	-4.82	-10.37
285	-14.83	-9.35	-5.46	-3.92	-1.85	1.11	2.03	0.50	-2.36	-2.74	-2.54	-5.10	-10.91
300	-14.15	-9.09	-5.25	-3.62	-1.56	1.27	2.08	0.49	-2.35	-2.76	-2.66	-5.45	-11.64
315	-13.45	-8.75	-4.96	-3.22	-1.22	1.43	2.13	0.47	-2.34	-2.78	-2.82	-5.88	-12.63
330	-12.79	-8.47	-4.62	-2.80	-0.87	1.57	2.18	0.43	-2.33	-2.84	-3.03	-6.42	-13.81
345	-12.10	-8.21	-4.31	-2.39	-0.57	1.67	2.18	0.54	-2.32	-2.94	-3.31	-7.06	-15.19
360	-11.13	-7.88	-4.00	-1.94	-0.25	1.74	2.18	0.53	-2.30	-3.16	-3.75	-8.03	-17.19
Avg.	-10.88	-7.46	-4.10	-2.42	-1.02	1.18	1.94	0.55	-2.25	-3.25	-3.46	-6.56	-13.01
Peak Value		2.250		Minimum Value -22.260									

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.03	-8.84	-4.19	-1.94	-0.32	1.61	2.08	0.47	-2.46	-3.50	-4.06	-8.54	-28.67
15	-14.00	-8.83	-4.10	-1.78	-0.18	1.64	2.09	0.48	-2.52	-3.70	-4.39	-9.11	-26.35
30	-14.09	-8.87	-4.06	-1.68	-0.10	1.66	2.08	0.47	-2.60	-3.99	-4.78	-9.79	-24.75
45	-14.49	-9.02	-4.11	-1.70	-0.12	1.61	2.03	0.44	-2.70	-4.26	-5.11	-10.36	-23.29
60	-15.15	-9.21	-4.24	-1.81	-0.28	1.48	1.96	0.40	-2.79	-4.48	-5.35	-10.51	-23.19
75	-16.13	-9.39	-4.40	-2.01	-0.49	1.35	1.87	0.34	-2.87	-4.62	-5.41	-10.38	-23.23
90	-17.44	-9.41	-4.50	-2.18	-0.74	1.17	1.78	0.31	-2.89	-4.61	-5.25	-9.83	-21.93
105	-18.76	-9.33	-4.53	-2.31	-0.93	1.05	1.72	0.31	-2.84	-4.44	-4.91	-9.03	-19.36
120	-19.64	-9.06	-4.43	-2.33	-1.01	0.98	1.73	0.37	-2.72	-4.13	-4.41	-8.02	-16.62
135	-20.03	-8.79	-4.29	-2.27	-1.02	1.03	1.81	0.47	-2.57	-3.79	-3.92	-7.10	-14.56
150	-20.38	-8.57	-4.16	-2.20	-0.98	1.12	1.94	0.60	-2.40	-3.46	-3.40	-6.27	-13.00
165	-20.52	-8.48	-4.10	-2.23	-0.96	1.20	2.08	0.73	-2.24	-3.15	-2.96	-5.60	-11.86
180	-21.27	-8.50	-4.17	-2.33	-1.03	1.25	2.16	0.86	-2.09	-2.94	-2.63	-5.06	-11.06
195	-22.19	-8.75	-4.32	-2.53	-1.18	1.25	2.23	0.91	-2.00	-2.77	-2.42	-4.77	-10.71
210	-23.47	-9.08	-4.61	-2.85	-1.43	1.15	2.21	0.92	-1.98	-2.70	-2.31	-4.63	-10.67
225	-24.27	-9.50	-4.94	-3.17	-1.68	1.04	2.09	0.84	-2.04	-2.75	-2.34	-4.70	-11.01
240	-23.66	-9.97	-5.32	-3.53	-1.96	0.89	2.00	0.67	-2.22	-2.87	-2.47	-4.87	-11.66
255	-22.17	-10.29	-5.58	-3.82	-2.15	0.74	1.83	0.48	-2.42	-3.00	-2.64	-5.19	-12.58
270	-20.22	-10.39	-5.72	-3.97	-2.18	0.69	1.72	0.28	-2.65	-3.14	-2.82	-5.51	-13.93
285	-18.45	-10.29	-5.68	-3.92	-2.06	0.75	1.67	0.16	-2.74	-3.17	-2.96	-5.85	-15.49
300	-17.09	-10.01	-5.48	-3.64	-1.78	0.89	1.70	0.13	-2.74	-3.18	-3.06	-6.22	-17.44
315	-16.02	-9.65	-5.18	-3.25	-1.42	1.08	1.79	0.17	-2.65	-3.14	-3.18	-6.60	-19.83
330	-15.17	-9.31	-4.83	-2.83	-1.03	1.28	1.90	0.21	-2.56	-3.16	-3.36	-7.08	-23.06
345	-14.57	-9.04	-4.48	-2.40	-0.69	1.45	1.98	0.41	-2.49	-3.25	-3.62	-7.65	-26.98
360	-14.03	-8.84	-4.19	-1.94	-0.32	1.61	2.08	0.47	-2.46	-3.50	-4.06	-8.54	-28.67
Avg.	-17.50	-9.42	-4.79	-2.73	-1.20	1.01	1.76	0.31	-2.67	-3.64	-3.72	-6.94	-15.13
Peak Value		2.226		Minimum Value -28.672									

Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.26	-14.90	-17.83	-30.94	-18.49	-13.51	-14.27	-18.54	-16.77	-14.37	-15.34	-17.51	-17.52
15	-13.30	-14.02	-16.59	-23.28	-19.17	-15.12	-16.68	-21.04	-16.26	-13.95	-15.46	-18.55	-19.11
30	-11.84	-12.66	-14.46	-17.50	-18.43	-17.47	-20.92	-19.92	-14.89	-13.51	-15.67	-20.27	-21.94
45	-10.71	-11.26	-12.53	-14.45	-16.31	-18.26	-21.09	-16.26	-13.28	-13.03	-15.79	-21.69	-25.47
60	-9.70	-10.01	-10.81	-12.09	-13.95	-16.43	-15.96	-12.97	-11.62	-12.70	-16.17	-23.01	-29.42
75	-9.01	-9.16	-9.61	-10.53	-12.23	-14.04	-12.68	-10.54	-10.33	-12.11	-16.08	-22.05	-25.66
90	-8.49	-8.57	-8.75	-9.63	-11.14	-12.23	-10.60	-8.97	-9.27	-11.70	-15.89	-20.76	-22.93
105	-8.34	-8.29	-8.44	-9.16	-10.77	-11.37	-9.50	-8.05	-8.68	-11.43	-15.69	-19.71	-21.19
120	-8.45	-8.36	-8.40	-9.26	-11.06	-11.45	-9.19	-7.73	-8.48	-11.39	-15.68	-19.07	-20.56
135	-8.83	-8.73	-8.78	-9.82	-11.98	-12.26	-9.54	-8.14	-8.72	-11.69	-16.21	-19.27	-20.92
150	-9.52	-9.28	-9.49	-10.75	-13.60	-14.16	-10.58	-8.71	-9.38	-12.42	-17.26	-20.38	-22.05
165	-10.34	-10.10	-10.31	-11.90	-15.57	-17.22	-12.39	-10.56	-10.65	-13.81	-19.69	-22.48	-23.39
180	-11.38	-10.96	-11.17	-12.96	-17.54	-23.04	-15.45	-12.54	-12.61	-16.34	-24.80	-24.15	-22.67
195	-12.64	-12.08	-12.19	-14.14	-18.53	-33.59	-20.32	-16.20	-15.66	-19.95	-40.31	-23.07	-20.51
210	-13.93	-13.22	-13.37	-15.27	-18.32	-21.93	-25.21	-22.24	-21.43	-23.69	-26.37	-20.15	-18.19
225	-15.39	-14.41	-14.64	-16.84	-17.87	-17.22	-19.06	-26.86	-28.65	-21.73	-19.52	-17.07	-15.89
240	-16.56	-15.62	-16.23	-19.30	-17.46	-14.14	-14.53	-18.46	-21.10	-17.57	-16.12	-15.12	-14.42
255	-17.34	-16.34	-17.51	-23.43	-16.81	-12.14	-11.69	-14.09	-16.34	-14.98	-14.11	-13.83	-13.49
270	-17.43	-16.58	-18.53	-32.11	-15.93	-10.66	-9.92	-11.80	-14.01	-13.45	-13.13	-13.16	-12.90
285	-17.31	-16.48	-18.56	-35.29	-15.14	-9.81	-8.97	-10.73	-13.08	-13.01	-12.89	-13.08	-12.77
300	-17.24	-16.26	-18.23	-27.05	-14.72	-9.51	-8.69	-10.55	-13.02	-13.14	-13.16	-13.35	-12.96
315	-16.96	-16.07	-17.97	-24.66	-14.59	-9.68	-9.05	-11.26	-13.94	-13.70	-13.76	-14.04	-13.55
330	-16.55	-16.00	-18.05	-25.57	-15.09	-10.35	-9.94	-12.68	-15.23	-14.32	-14.38	-14.96	-14.36
345	-15.72	-15.79	-18.36	-30.13	-16.23	-11.40	-11.42	-14.81	-16.39	-14.61	-14.93	-16.02	-15.49
360	-14.26	-14.90	-17.83	-30.94	-18.49	-13.51	-14.27	-18.54	-16.77	-14.37	-15.34	-17.51	-17.52
Avg.	-11.95	-11.87	-12.43	-14.08	-14.85	-13.20	-12.08	-12.04	-12.61	-13.91	-15.97	-17.28	-17.14
Peak Value	-7.726	Minimum Value -40.309											

RHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-13.93	-16.00	-8.99	-5.04	-2.66	-1.21	-1.26	-2.66	-4.98	-7.02	-8.91	-15.21	-19.89
15	-12.95	-15.49	-8.84	-4.79	-2.36	-0.96	-0.97	-2.25	-4.55	-6.71	-8.84	-15.19	-20.01
30	-11.78	-14.82	-8.80	-4.65	-2.13	-0.70	-0.62	-1.77	-4.00	-6.25	-8.59	-14.85	-21.29
45	-11.07	-14.40	-8.97	-4.72	-2.11	-0.56	-0.40	-1.43	-3.53	-5.80	-8.18	-14.17	-22.46
60	-10.58	-14.23	-9.40	-5.04	-2.30	-0.62	-0.24	-1.17	-3.12	-5.40	-7.77	-13.17	-24.98
75	-10.50	-14.47	-10.07	-5.61	-2.69	-0.79	-0.29	-1.08	-2.88	-4.97	-7.16	-11.99	-25.47
90	-10.65	-15.08	-10.98	-6.32	-3.30	-1.18	-0.48	-1.12	-2.72	-4.60	-6.53	-10.83	-22.91
105	-11.21	-16.08	-11.89	-7.12	-3.95	-1.62	-0.80	-1.29	-2.69	-4.28	-5.95	-9.82	-19.76
120	-11.96	-17.57	-12.62	-7.67	-4.50	-2.11	-1.16	-1.53	-2.74	-4.01	-5.40	-8.90	-17.39
135	-12.96	-19.00	-12.63	-7.79	-4.71	-2.37	-1.45	-1.89	-2.88	-3.86	-5.07	-8.27	-16.00
150	-14.20	-19.92	-12.14	-7.47	-4.62	-2.40	-1.58	-2.01	-3.04	-3.83	-4.81	-7.89	-15.22
165	-15.54	-19.92	-11.51	-7.09	-4.29	-2.21	-1.53	-2.20	-3.26	-3.94	-4.79	-7.79	-15.25
180	-16.89	-19.49	-10.99	-6.67	-3.92	-1.89	-1.43	-2.20	-3.52	-4.27	-4.99	-7.89	-15.68
195	-18.30	-19.02	-10.62	-6.43	-3.62	-1.61	-1.25	-2.26	-3.83	-4.68	-5.33	-8.30	-16.75
210	-19.45	-18.68	-10.43	-6.31	-3.45	-1.45	-1.16	-2.35	-4.26	-5.23	-5.85	-8.92	-18.35
225	-20.72	-18.76	-10.49	-6.41	-3.47	-1.39	-1.18	-2.48	-4.74	-6.01	-6.62	-9.89	-21.32
240	-21.57	-18.94	-10.68	-6.57	-3.62	-1.51	-1.32	-2.81	-5.40	-6.93	-7.47	-10.88	-25.37
255	-22.70	-19.22	-10.89	-6.83	-3.83	-1.74	-1.63	-3.25	-6.16	-7.84	-8.33	-11.98	-31.23
270	-23.22	-19.26	-10.96	-7.01	-4.04	-2.03	-2.00	-3.78	-6.97	-8.71	-8.99	-12.87	-32.08
285	-22.88	-19.11	-10.91	-7.08	-4.20	-2.28	-2.35	-4.25	-7.51	-9.07	-9.31	-13.49	-26.89
300	-21.97	-18.75	-10.67	-6.94	-4.21	-2.40	-2.53	-4.47	-7.67	-9.05	-9.33	-13.95	-23.88
315	-20.14	-18.29	-10.36	-6.64	-4.05	-2.33	-2.47	-4.38	-7.29	-8.66	-9.22	-14.21	-22.23
330	-17.96	-17.67	-9.93	-6.18	-3.67	-2.08	-2.22	-4.01	-6.65	-8.11	-9.10	-14.52	-20.97
345	-16.02	-16.92	-9.46	-5.67	-3.23	-1.71	-1.85	-3.32	-5.94	-7.56	-8.99	-14.84	-20.16
360	-13.93	-16.00	-8.99	-5.04	-2.66	-1.21	-1.26	-2.66	-4.98	-7.02	-8.91	-15.21	-19.89
Avg.	-14.49	-17.28	-10.59	-6.41	-3.65	-1.77	-1.47	-2.55	-4.48	-5.95	-7.18	-11.04	-19.79
Peak Value	-0.239	Minimum Value -32.078											



LHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.37	-8.61	-5.66	-4.86	-3.97	-1.33	-0.44	-2.31	-5.66	-5.46	-5.33	-8.95	-20.55
15	-14.46	-8.46	-5.52	-4.74	-4.09	-1.63	-0.76	-2.76	-6.32	-5.96	-5.82	-9.73	-23.37
30	-14.21	-8.21	-5.28	-4.51	-4.22	-2.00	-1.22	-3.37	-7.34	-6.85	-6.55	-10.88	-26.37
45	-13.73	-7.86	-4.99	-4.26	-4.20	-2.32	-1.61	-3.86	-8.52	-7.92	-7.38	-12.18	-27.32
60	-13.01	-7.40	-4.62	-3.90	-4.09	-2.51	-1.86	-4.16	-9.70	-9.15	-8.28	-13.39	-25.58
75	-12.16	-6.97	-4.27	-3.53	-3.82	-2.43	-1.83	-4.10	-10.27	-10.56	-9.20	-14.61	-23.35
90	-11.34	-6.53	-3.89	-3.18	-3.44	-2.16	-1.56	-3.67	-10.07	-11.78	-9.91	-15.26	-21.95
105	-10.75	-6.19	-3.65	-2.88	-3.11	-1.83	-1.16	-3.14	-9.28	-12.37	-10.19	-15.00	-20.65
120	-10.46	-5.98	-3.47	-2.73	-2.87	-1.48	-0.73	-2.56	-8.39	-12.06	-9.95	-13.87	-19.08
135	-10.45	-5.96	-3.46	-2.75	-2.87	-1.27	-0.40	-2.08	-7.63	-11.26	-9.28	-12.36	-17.45
150	-10.82	-6.07	-3.61	-2.94	-3.04	-1.21	-0.19	-1.85	-7.12	-10.26	-8.37	-10.82	-15.81
165	-11.34	-6.39	-3.85	-3.30	-3.41	-1.33	-0.13	-1.74	-6.76	-9.15	-7.33	-9.39	-14.00
180	-12.24	-6.78	-4.20	-3.77	-3.97	-1.59	-0.20	-1.73	-6.41	-8.04	-6.35	-8.16	-12.47
195	-13.40	-7.38	-4.64	-4.32	-4.66	-1.90	-0.32	-1.79	-6.12	-7.04	-5.54	-7.20	-11.38
210	-14.74	-8.02	-5.20	-5.03	-5.49	-2.27	-0.47	-1.80	-5.74	-6.18	-4.82	-6.47	-10.64
225	-16.17	-8.69	-5.75	-5.63	-6.09	-2.49	-0.60	-1.86	-5.37	-5.42	-4.24	-5.93	-10.10
240	-17.12	-9.38	-6.35	-6.29	-6.55	-2.52	-0.55	-1.82	-4.96	-4.80	-3.85	-5.61	-9.94
255	-17.18	-9.80	-6.71	-6.74	-6.64	-2.38	-0.43	-1.66	-4.51	-4.33	-3.60	-5.52	-10.03
270	-16.42	-9.94	-6.95	-6.93	-6.25	-2.00	-0.20	-1.46	-4.17	-4.02	-3.52	-5.56	-10.40
285	-15.57	-9.84	-6.92	-6.78	-5.64	-1.55	0.05	-1.28	-3.94	-3.89	-3.57	-5.78	-11.02
300	-14.94	-9.58	-6.72	-6.33	-4.97	-1.18	0.24	-1.18	-3.86	-3.93	-3.71	-6.11	-11.90
315	-14.50	-9.27	-6.43	-5.86	-4.42	-0.94	0.29	-1.25	-4.01	-4.07	-3.95	-6.58	-13.14
330	-14.37	-9.02	-6.14	-5.47	-4.10	-0.88	0.21	-1.51	-4.34	-4.37	-4.27	-7.16	-14.74
345	-14.35	-8.83	-5.89	-5.15	-3.95	-0.99	-0.01	-1.76	-4.80	-4.78	-4.68	-7.86	-16.85
360	-14.37	-8.61	-5.66	-4.86	-3.97	-1.33	-0.44	-2.31	-5.66	-5.46	-5.33	-8.95	-20.55
Avg.	-13.37	-7.94	-5.20	-4.64	-4.45	-1.90	-0.71	-2.36	-6.22	-6.60	-5.87	-8.47	-14.03
Peak Value		0.286		Minimum Value -27.317									

AR													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	32.07	7.93	14.45	39.35	22.41	42.94	26.53	33.95	28.15	20.94	13.85	9.23	28.45
15	21.20	8.31	14.49	50.87	20.05	28.27	38.43	30.76	19.89	27.31	15.28	10.33	14.36
30	17.15	8.81	13.98	41.91	18.45	22.51	29.30	20.76	14.44	29.32	18.62	12.97	10.92
45	16.40	8.88	12.95	31.54	18.46	19.91	23.13	17.14	11.07	18.30	26.80	18.87	11.30
60	17.14	8.55	11.44	23.66	19.79	19.32	20.60	15.37	8.83	13.47	30.54	37.68	29.31
75	20.44	7.82	9.84	18.48	23.70	20.56	21.06	15.29	7.92	10.14	18.61	16.49	18.30
90	28.08	6.82	8.25	14.95	42.25	24.97	24.16	16.71	7.97	8.14	14.33	12.04	25.11
105	31.51	5.77	7.10	12.42	26.25	38.26	33.75	19.48	8.82	7.24	12.41	10.77	25.79
120	21.27	4.68	6.32	11.16	20.60	28.77	32.00	24.56	10.06	7.27	11.84	11.10	20.27
135	16.87	3.94	6.31	10.99	19.52	23.93	24.38	39.11	11.48	7.92	12.47	12.72	21.60
150	14.31	3.58	6.84	11.87	20.89	23.33	21.93	40.69	12.75	9.02	13.89	15.53	29.46
165	12.49	3.72	7.66	13.37	25.92	25.95	21.88	31.46	14.02	10.71	16.74	20.75	22.86
180	11.65	4.09	8.59	15.63	50.95	35.21	23.05	31.26	15.64	13.40	22.17	36.16	14.75
195	11.22	4.66	9.60	18.34	24.51	35.64	25.45	31.31	17.63	17.39	38.60	24.00	10.46
210	11.55	5.25	10.69	22.69	18.66	26.46	28.03	29.90	21.42	25.25	24.53	17.09	7.60
225	11.83	5.64	11.51	26.98	16.52	23.94	29.46	28.94	28.87	29.39	17.31	12.99	4.90
240	12.01	6.01	12.23	35.66	15.56	24.73	27.01	24.88	31.97	18.29	13.74	10.63	2.97
255	10.24	6.12	12.55	45.84	15.88	28.59	23.23	20.77	20.48	14.01	11.51	8.98	1.52
270	8.57	6.19	12.88	46.56	17.95	56.58	19.69	17.54	15.95	11.59	10.32	8.02	1.44
285	8.02	6.23	12.92	35.29	21.62	27.57	17.25	15.41	13.87	10.76	9.92	7.60	2.82
300	8.32	6.31	13.01	29.02	27.17	23.08	16.03	14.57	13.31	10.86	10.10	7.47	4.47
315	10.07	6.42	13.06	27.00	33.54	21.98	16.08	14.99	14.59	11.76	10.62	7.68	6.37
330	13.81	6.74	13.35	27.82	32.21	23.22	17.15	16.88	17.58	13.46	11.33	7.96	9.26
345	20.38	7.24	13.88	30.56	27.64	27.61	19.54	20.98	23.68	15.97	12.28	8.36	14.50
360	32.07	7.93	14.45	39.35	22.41	42.94	26.53	33.95	28.15	20.94	13.85	9.23	28.45
Avg.	22.59	6.34	11.55	39.87	37.75	42.96	28.24	30.91	22.02	21.01	25.94	26.33	21.82
Peak Value		#####											
Minimum Value		1.436											



505.9 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-11.17	-7.98	-4.09	-2.03	-0.35	1.66	2.13	0.52	-2.29	-3.13	-3.69	-7.92	-17.16
15	-10.56	-7.78	-3.93	-1.81	-0.21	1.67	2.09	0.51	-2.29	-3.26	-4.03	-8.52	-18.75
30	-9.75	-7.46	-3.76	-1.61	-0.12	1.65	2.04	0.50	-2.30	-3.47	-4.38	-9.32	-20.75
45	-9.14	-7.06	-3.59	-1.53	-0.09	1.58	2.00	0.53	-2.28	-3.65	-4.68	-9.84	-22.20
60	-8.54	-6.63	-3.44	-1.49	-0.17	1.48	1.99	0.61	-2.19	-3.81	-4.93	-10.13	-22.95
75	-8.18	-6.28	-3.33	-1.48	-0.29	1.40	1.97	0.68	-2.10	-3.83	-4.94	-9.88	-21.53
90	-7.86	-5.97	-3.20	-1.52	-0.42	1.31	1.97	0.80	-1.94	-3.75	-4.81	-9.29	-19.42
105	-7.86	-5.78	-3.07	-1.54	-0.59	1.20	1.98	0.90	-1.80	-3.60	-4.47	-8.50	-17.13
120	-8.02	-5.73	-3.03	-1.61	-0.68	1.13	2.01	0.98	-1.68	-3.34	-4.03	-7.60	-15.06
135	-8.45	-5.81	-3.03	-1.66	-0.80	1.13	2.07	1.01	-1.63	-3.10	-3.62	-6.76	-13.60
150	-9.08	-6.00	-3.12	-1.74	-0.87	1.14	2.11	1.07	-1.60	-2.93	-3.18	-6.01	-12.42
165	-9.93	-6.29	-3.26	-1.91	-0.96	1.16	2.16	1.03	-1.66	-2.79	-2.84	-5.46	-11.46
180	-10.95	-6.70	-3.47	-2.10	-1.09	1.16	2.18	1.03	-1.72	-2.74	-2.58	-5.00	-10.77
195	-12.28	-7.22	-3.80	-2.38	-1.26	1.13	2.18	0.99	-1.82	-2.69	-2.39	-4.68	-10.28
210	-13.50	-7.84	-4.21	-2.79	-1.54	1.06	2.15	0.94	-1.92	-2.68	-2.29	-4.51	-9.93
225	-14.91	-8.51	-4.66	-3.16	-1.75	0.99	2.07	0.84	-2.03	-2.71	-2.25	-4.43	-9.76
240	-15.82	-9.12	-5.12	-3.61	-2.01	0.91	2.03	0.73	-2.14	-2.71	-2.28	-4.49	-9.79
255	-15.93	-9.47	-5.50	-3.96	-2.15	0.86	1.95	0.64	-2.24	-2.74	-2.34	-4.61	-9.94
270	-15.54	-9.62	-5.65	-4.12	-2.14	0.92	1.95	0.54	-2.30	-2.74	-2.43	-4.83	-10.33
285	-14.80	-9.48	-5.58	-4.03	-1.98	1.03	1.98	0.50	-2.34	-2.77	-2.54	-5.08	-10.85
300	-14.12	-9.15	-5.34	-3.72	-1.69	1.20	2.04	0.48	-2.37	-2.75	-2.66	-5.42	-11.58
315	-13.44	-8.84	-5.04	-3.34	-1.32	1.37	2.09	0.48	-2.34	-2.77	-2.80	-5.85	-12.60
330	-12.78	-8.54	-4.69	-2.90	-0.95	1.51	2.13	0.43	-2.32	-2.81	-3.03	-6.36	-13.76
345	-12.07	-8.27	-4.40	-2.49	-0.67	1.60	2.13	0.54	-2.30	-2.92	-3.28	-6.99	-15.13
360	-11.17	-7.98	-4.09	-2.03	-0.35	1.66	2.13	0.52	-2.29	-3.13	-3.69	-7.92	-17.16
Avg.	-10.83	-7.55	-4.19	-2.52	-1.13	1.09	1.88	0.55	-2.24	-3.23	-3.43	-6.50	-12.99
Peak Value		2.182		Minimum Value -22.951									

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.27	-8.99	-4.28	-2.03	-0.42	1.52	2.03	0.47	-2.45	-3.47	-3.99	-8.41	-29.25
15	-14.12	-8.98	-4.18	-1.85	-0.27	1.58	2.03	0.48	-2.48	-3.65	-4.34	-8.95	-27.76
30	-14.27	-9.04	-4.15	-1.73	-0.18	1.59	2.02	0.46	-2.56	-3.95	-4.70	-9.66	-26.03
45	-14.67	-9.24	-4.20	-1.77	-0.21	1.54	1.98	0.43	-2.67	-4.21	-5.03	-10.12	-24.68
60	-15.41	-9.39	-4.34	-1.90	-0.37	1.41	1.91	0.40	-2.74	-4.45	-5.27	-10.37	-24.22
75	-16.48	-9.54	-4.50	-2.08	-0.59	1.27	1.81	0.34	-2.84	-4.57	-5.32	-10.16	-23.78
90	-17.72	-9.59	-4.62	-2.27	-0.82	1.10	1.72	0.31	-2.86	-4.56	-5.18	-9.64	-22.16
105	-19.13	-9.51	-4.61	-2.38	-1.03	0.95	1.66	0.31	-2.82	-4.43	-4.83	-8.88	-19.30
120	-20.12	-9.23	-4.54	-2.44	-1.11	0.89	1.67	0.36	-2.71	-4.12	-4.35	-7.94	-16.50
135	-20.62	-9.01	-4.39	-2.37	-1.14	0.93	1.77	0.46	-2.58	-3.79	-3.88	-7.02	-14.50
150	-20.99	-8.76	-4.26	-2.33	-1.11	1.02	1.88	0.60	-2.40	-3.46	-3.36	-6.17	-12.91
165	-21.30	-8.68	-4.22	-2.37	-1.11	1.10	2.02	0.73	-2.24	-3.16	-2.94	-5.54	-11.74
180	-22.09	-8.75	-4.28	-2.47	-1.19	1.14	2.11	0.84	-2.09	-2.93	-2.60	-5.05	-11.03
195	-23.45	-8.95	-4.47	-2.67	-1.34	1.13	2.16	0.92	-2.00	-2.78	-2.39	-4.75	-10.70
210	-24.77	-9.33	-4.77	-3.04	-1.63	1.04	2.14	0.92	-1.97	-2.71	-2.31	-4.63	-10.65
225	-25.47	-9.80	-5.11	-3.33	-1.86	0.91	2.03	0.83	-2.04	-2.77	-2.34	-4.67	-10.98
240	-24.46	-10.24	-5.47	-3.72	-2.14	0.76	1.92	0.67	-2.21	-2.87	-2.47	-4.89	-11.64
255	-22.60	-10.52	-5.77	-4.00	-2.31	0.62	1.75	0.48	-2.43	-3.02	-2.64	-5.18	-12.57
270	-20.54	-10.64	-5.89	-4.13	-2.34	0.58	1.65	0.26	-2.63	-3.14	-2.82	-5.53	-13.91
285	-18.67	-10.49	-5.82	-4.04	-2.21	0.64	1.60	0.14	-2.74	-3.21	-2.96	-5.84	-15.39
300	-17.26	-10.16	-5.58	-3.75	-1.92	0.80	1.64	0.11	-2.76	-3.18	-3.06	-6.18	-17.26
315	-16.19	-9.80	-5.28	-3.38	-1.53	1.00	1.73	0.17	-2.65	-3.13	-3.16	-6.54	-19.49
330	-15.34	-9.43	-4.90	-2.92	-1.13	1.21	1.85	0.21	-2.55	-3.13	-3.34	-6.99	-22.37
345	-14.69	-9.16	-4.58	-2.50	-0.80	1.38	1.93	0.41	-2.47	-3.23	-3.57	-7.54	-26.09
360	-14.27	-8.99	-4.28	-2.03	-0.42	1.52	2.03	0.47	-2.45	-3.47	-3.99	-8.41	-29.25
Avg.	-17.79	-9.61	-4.90	-2.84	-1.32	0.92	1.70	0.30	-2.66	-3.63	-3.68	-6.88	-15.10
Peak Value		2.156		Minimum Value -29.246									

Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.09	-14.80	-17.81	-31.17	-18.22	-13.34	-14.25	-18.33	-16.71	-14.37	-15.47	-17.69	-17.44
15	-13.08	-13.93	-16.57	-22.92	-19.06	-15.09	-16.75	-20.71	-16.03	-13.94	-15.66	-18.82	-19.33
30	-11.64	-12.61	-14.41	-17.27	-18.31	-17.35	-20.87	-19.66	-14.60	-13.30	-15.77	-20.55	-22.28
45	-10.56	-11.11	-12.48	-14.33	-16.01	-18.04	-20.65	-15.98	-12.99	-12.79	-15.78	-21.94	-25.80
60	-9.54	-9.91	-10.70	-11.98	-13.65	-16.06	-15.73	-12.76	-11.42	-12.44	-16.07	-22.93	-28.90
75	-8.88	-9.06	-9.57	-10.43	-12.09	-13.80	-12.57	-10.48	-10.14	-11.88	-15.77	-21.83	-25.44
90	-8.34	-8.45	-8.72	-9.52	-10.99	-12.08	-10.58	-8.94	-9.15	-11.45	-15.70	-20.46	-22.72
105	-8.19	-8.18	-8.33	-9.07	-10.68	-11.36	-9.49	-8.03	-8.57	-11.20	-15.45	-19.30	-21.18
120	-8.29	-8.30	-8.33	-9.23	-10.97	-11.44	-9.22	-7.77	-8.41	-11.17	-15.52	-18.82	-20.53
135	-8.73	-8.64	-8.73	-9.83	-11.99	-12.32	-9.61	-8.19	-8.69	-11.45	-15.97	-19.13	-20.88
150	-9.37	-9.27	-9.47	-10.75	-13.61	-14.24	-10.68	-8.78	-9.39	-12.28	-16.99	-20.42	-22.13
165	-10.26	-10.02	-10.31	-11.88	-15.65	-17.50	-12.58	-10.73	-10.67	-13.72	-19.40	-22.47	-23.58
180	-11.30	-10.93	-11.16	-13.01	-17.63	-23.48	-15.86	-12.76	-12.64	-16.28	-24.44	-24.32	-23.08
195	-12.62	-12.04	-12.22	-14.17	-18.57	-33.26	-21.02	-16.66	-15.77	-19.77	-39.53	-23.16	-20.64
210	-13.83	-13.20	-13.42	-15.48	-18.47	-21.61	-24.73	-23.27	-21.64	-23.28	-26.02	-20.07	-18.11
225	-15.31	-14.42	-14.71	-17.22	-17.81	-16.82	-18.50	-26.04	-27.58	-21.26	-19.26	-17.00	-15.89
240	-16.46	-15.54	-16.33	-19.82	-17.29	-13.78	-14.12	-17.83	-20.41	-17.21	-15.98	-15.02	-14.39
255	-16.98	-16.17	-17.75	-24.41	-16.71	-11.84	-11.41	-13.73	-15.84	-14.79	-14.06	-13.73	-13.37
270	-17.19	-16.41	-18.38	-35.33	-15.67	-10.39	-9.74	-11.57	-13.73	-13.27	-13.16	-13.08	-12.83
285	-17.10	-16.31	-18.34	-32.82	-14.97	-9.61	-8.80	-10.56	-12.92	-12.92	-12.93	-13.00	-12.73
300	-17.00	-16.00	-17.89	-26.05	-14.53	-9.38	-8.59	-10.40	-13.02	-13.08	-13.28	-13.41	-12.95
315	-16.71	-15.87	-17.74	-24.01	-14.50	-9.58	-8.95	-11.22	-13.94	-13.75	-13.84	-14.16	-13.59
330	-16.30	-15.85	-17.86	-25.06	-15.06	-10.25	-9.92	-12.62	-15.21	-14.35	-14.63	-15.10	-14.40
345	-15.51	-15.60	-18.47	-30.27	-16.22	-11.35	-11.39	-14.81	-16.43	-14.66	-15.13	-16.19	-15.49
360	-14.09	-14.80	-17.81	-31.17	-18.22	-13.34	-14.25	-18.33	-16.71	-14.37	-15.47	-17.69	-17.44
Avg.	-11.81	-11.78	-12.38	-14.05	-14.75	-13.07	-12.03	-12.01	-12.51	-13.75	-15.95	-17.27	-17.13
Peak Value	-7.765	Minimum Value -39.526											

RHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-13.92	-16.41	-9.15	-5.13	-2.71	-1.28	-1.31	-2.65	-4.97	-6.96	-8.80	-14.92	-20.26
15	-12.84	-15.79	-8.97	-4.86	-2.40	-0.99	-1.00	-2.22	-4.48	-6.60	-8.72	-14.87	-20.68
30	-11.68	-15.09	-8.95	-4.71	-2.19	-0.72	-0.66	-1.76	-3.91	-6.14	-8.43	-14.61	-22.06
45	-11.00	-14.72	-9.09	-4.81	-2.17	-0.61	-0.41	-1.40	-3.44	-5.69	-8.06	-13.81	-23.29
60	-10.49	-14.44	-9.59	-5.17	-2.37	-0.65	-0.26	-1.13	-3.03	-5.32	-7.65	-12.97	-25.44
75	-10.39	-14.59	-10.28	-5.72	-2.78	-0.85	-0.33	-1.06	-2.80	-4.87	-7.00	-11.75	-25.17
90	-10.51	-15.21	-11.27	-6.45	-3.39	-1.21	-0.53	-1.10	-2.66	-4.49	-6.44	-10.62	-22.38
105	-11.02	-16.29	-12.17	-7.28	-4.05	-1.71	-0.86	-1.28	-2.64	-4.20	-5.84	-9.62	-19.35
120	-11.75	-17.85	-12.93	-7.88	-4.62	-2.20	-1.22	-1.54	-2.70	-3.94	-5.32	-8.77	-17.04
135	-12.79	-19.45	-13.01	-7.97	-4.87	-2.46	-1.50	-1.91	-2.86	-3.79	-4.99	-8.18	-15.81
150	-13.93	-20.60	-12.44	-7.70	-4.74	-2.48	-1.66	-2.02	-3.03	-3.79	-4.74	-7.78	-14.99
165	-15.27	-20.95	-11.81	-7.32	-4.44	-2.29	-1.61	-2.22	-3.25	-3.92	-4.74	-7.73	-15.04
180	-16.66	-20.42	-11.29	-6.90	-4.06	-2.00	-1.47	-2.23	-3.51	-4.25	-4.94	-7.89	-15.53
195	-17.96	-19.84	-10.95	-6.63	-3.76	-1.72	-1.31	-2.24	-3.81	-4.67	-5.30	-8.26	-16.69
210	-18.95	-19.51	-10.73	-6.54	-3.64	-1.55	-1.21	-2.35	-4.23	-5.24	-5.87	-8.94	-18.38
225	-20.24	-19.66	-10.83	-6.61	-3.61	-1.49	-1.25	-2.49	-4.74	-6.06	-6.66	-9.85	-21.27
240	-21.14	-19.71	-10.96	-6.80	-3.77	-1.62	-1.40	-2.83	-5.38	-6.93	-7.52	-10.94	-25.62
255	-22.01	-19.92	-11.16	-7.03	-3.97	-1.84	-1.72	-3.24	-6.17	-7.92	-8.36	-11.97	-33.18
270	-22.71	-19.89	-11.25	-7.17	-4.17	-2.14	-2.08	-3.80	-6.95	-8.76	-8.97	-12.89	-32.86
285	-22.71	-19.57	-11.13	-7.22	-4.34	-2.38	-2.42	-4.26	-7.50	-9.17	-9.28	-13.46	-27.26
300	-21.78	-19.24	-10.87	-7.04	-4.34	-2.49	-2.60	-4.49	-7.66	-9.07	-9.27	-13.76	-24.09
315	-20.04	-18.75	-10.52	-6.76	-4.14	-2.41	-2.55	-4.33	-7.27	-8.63	-9.16	-13.97	-22.54
330	-17.95	-18.05	-10.07	-6.30	-3.74	-2.14	-2.28	-3.99	-6.63	-8.05	-8.99	-14.24	-21.36
345	-15.93	-17.34	-9.55	-5.76	-3.32	-1.77	-1.89	-3.28	-5.87	-7.51	-8.87	-14.56	-20.59
360	-13.92	-16.41	-9.15	-5.13	-2.71	-1.28	-1.31	-2.65	-4.97	-6.96	-8.80	-14.92	-20.26
Avg.	-14.34	-17.69	-10.81	-6.56	-3.75	-1.84	-1.52	-2.55	-4.44	-5.91	-7.11	-10.94	-19.77
Peak Value	-0.261	Minimum Value -33.175											

LHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.46	-8.65	-5.72	-4.95	-4.12	-1.42	-0.50	-2.33	-5.65	-5.45	-5.29	-8.89	-20.09
15	-14.46	-8.52	-5.57	-4.79	-4.22	-1.71	-0.85	-2.80	-6.31	-5.97	-5.84	-9.67	-23.19
30	-14.19	-8.28	-5.32	-4.54	-4.31	-2.12	-1.29	-3.41	-7.38	-6.84	-6.55	-10.85	-26.60
45	-13.72	-7.88	-5.03	-4.29	-4.30	-2.44	-1.69	-3.93	-8.59	-7.90	-7.34	-12.06	-28.73
60	-12.95	-7.42	-4.64	-3.93	-4.19	-2.62	-1.95	-4.21	-9.74	-9.13	-8.24	-13.33	-26.56
75	-12.18	-6.98	-4.31	-3.54	-3.89	-2.54	-1.90	-4.13	-10.37	-10.56	-9.17	-14.44	-23.98
90	-11.26	-6.52	-3.93	-3.21	-3.48	-2.25	-1.62	-3.69	-10.13	-11.81	-9.87	-15.10	-22.48
105	-10.72	-6.19	-3.65	-2.89	-3.18	-1.92	-1.22	-3.13	-9.34	-12.46	-10.16	-14.95	-21.10
120	-10.40	-6.00	-3.49	-2.78	-2.93	-1.57	-0.79	-2.57	-8.44	-12.19	-9.91	-13.85	-19.41
135	-10.45	-6.00	-3.49	-2.81	-2.96	-1.36	-0.44	-2.09	-7.71	-11.43	-9.29	-12.32	-17.60
150	-10.80	-6.15	-3.66	-3.02	-3.16	-1.32	-0.25	-1.85	-7.13	-10.36	-8.38	-10.74	-15.92
165	-11.43	-6.44	-3.91	-3.38	-3.54	-1.45	-0.20	-1.75	-6.79	-9.21	-7.36	-9.36	-13.97
180	-12.31	-6.88	-4.25	-3.85	-4.14	-1.72	-0.27	-1.76	-6.45	-8.05	-6.35	-8.13	-12.53
195	-13.65	-7.46	-4.73	-4.42	-4.85	-2.04	-0.41	-1.80	-6.17	-7.06	-5.50	-7.19	-11.41
210	-14.95	-8.14	-5.31	-5.17	-5.70	-2.39	-0.53	-1.81	-5.76	-6.18	-4.79	-6.45	-10.60
225	-16.42	-8.86	-5.86	-5.76	-6.32	-2.64	-0.66	-1.88	-5.36	-5.40	-4.21	-5.90	-10.08
240	-17.33	-9.52	-6.44	-6.46	-6.80	-2.64	-0.60	-1.80	-4.94	-4.78	-3.83	-5.61	-9.91
255	-17.16	-9.88	-6.88	-6.90	-6.83	-2.48	-0.48	-1.64	-4.48	-4.31	-3.59	-5.49	-9.96
270	-16.47	-10.05	-7.05	-7.09	-6.43	-2.05	-0.23	-1.46	-4.13	-3.99	-3.52	-5.57	-10.35
285	-15.57	-9.93	-7.00	-6.88	-5.77	-1.60	0.03	-1.27	-3.92	-3.90	-3.58	-5.76	-10.95
300	-14.94	-9.60	-6.76	-6.44	-5.09	-1.22	0.20	-1.18	-3.89	-3.91	-3.73	-6.11	-11.83
315	-14.51	-9.31	-6.49	-5.97	-4.53	-0.99	0.26	-1.26	-4.02	-4.08	-3.95	-6.57	-13.06
330	-14.36	-9.05	-6.17	-5.54	-4.20	-0.95	0.17	-1.52	-4.33	-4.36	-4.30	-7.14	-14.59
345	-14.36	-8.85	-5.99	-5.26	-4.08	-1.07	-0.06	-1.78	-4.81	-4.78	-4.68	-7.82	-16.58
360	-14.46	-8.65	-5.72	-4.95	-4.12	-1.42	-0.50	-2.33	-5.65	-5.45	-5.29	-8.89	-20.09
Avg.	-13.39	-7.99	-5.25	-4.71	-4.57	-2.00	-0.77	-2.38	-6.23	-6.60	-5.86	-8.44	-14.01
Peak Value		0.262		Minimum Value -28.732									

AR													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	30.23	7.55	14.21	39.67	21.81	41.37	26.58	34.51	28.09	21.23	14.01	9.54	40.05
15	20.61	8.05	14.29	47.61	19.62	27.61	41.15	29.55	19.54	28.83	15.68	10.73	16.86
30	16.87	8.57	13.74	40.24	18.31	21.89	28.84	20.47	14.11	27.89	19.32	13.42	11.85
45	16.15	8.54	12.78	30.48	18.24	19.59	22.65	16.82	10.80	17.94	27.68	19.95	10.35
60	17.06	8.33	11.14	22.96	19.64	18.94	20.27	15.13	8.68	13.30	29.37	33.56	23.85
75	19.74	7.69	9.61	18.10	23.89	20.25	20.92	15.14	7.74	9.99	18.12	16.28	23.28
90	27.29	6.71	7.98	14.68	45.98	24.46	24.00	16.59	7.84	8.01	14.20	11.96	44.78
105	35.29	5.62	6.84	12.14	26.02	38.53	33.70	19.45	8.68	7.08	12.27	10.53	19.95
120	22.23	4.54	6.10	10.89	20.27	28.81	32.13	24.59	9.94	7.08	11.77	10.93	17.35
135	17.47	3.75	6.03	10.79	19.20	23.96	24.33	39.47	11.30	7.67	12.30	12.60	19.78
150	14.98	3.33	6.63	11.59	20.82	23.53	21.80	40.29	12.71	8.85	13.70	15.45	25.41
165	13.23	3.31	7.42	13.03	25.74	26.34	21.83	31.32	13.94	10.58	16.48	20.56	24.19
180	12.21	3.71	8.30	15.22	46.93	35.79	23.22	31.37	15.51	13.35	21.84	36.97	15.35
195	12.29	4.26	9.29	17.94	24.05	34.53	25.69	31.93	17.38	17.31	39.03	24.22	10.61
210	12.91	4.81	10.39	22.10	18.56	26.40	28.19	30.16	21.13	25.36	24.16	16.90	7.54
225	13.30	5.16	11.11	26.21	16.22	23.61	29.35	29.19	28.93	28.33	17.06	13.00	4.91
240	13.32	5.55	11.89	34.14	15.25	24.58	26.80	24.57	31.82	18.18	13.60	10.52	2.87
255	11.30	5.66	12.34	42.82	15.74	28.63	22.95	20.74	20.25	13.77	11.44	8.95	1.20
270	9.26	5.80	12.51	47.18	17.78	46.11	19.46	17.48	15.88	11.44	10.35	8.00	1.30
285	8.19	5.95	12.63	34.19	21.68	26.97	17.06	15.35	13.84	10.62	9.98	7.62	2.68
300	8.53	5.95	12.67	29.24	27.28	22.74	15.92	14.52	13.40	10.78	10.23	7.67	4.32
315	10.23	6.10	12.85	26.85	33.01	21.82	15.90	15.14	14.66	11.83	10.72	7.92	6.07
330	13.82	6.45	13.13	27.22	31.70	23.25	17.08	17.01	17.62	13.59	11.58	8.23	8.60
345	20.90	6.87	13.89	30.80	27.14	27.92	19.61	21.31	24.34	16.15	12.51	8.65	12.89
360	30.23	7.55	14.21	39.67	21.81	41.37	26.58	34.51	28.09	21.23	14.01	9.54	40.05
Avg.	23.72	6.05	11.31	38.05	35.84	34.75	29.56	30.91	21.97	20.72	26.18	25.07	32.22
Peak Value		#####		Minimum Value 1.202									

507.2 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-11.43	-8.25	-4.39	-2.32	-0.65	1.36	1.85	0.29	-2.47	-3.31	-3.89	-8.01	-17.54
15	-10.80	-8.07	-4.22	-2.11	-0.52	1.37	1.81	0.27	-2.49	-3.45	-4.21	-8.67	-19.21
30	-9.94	-7.76	-4.03	-1.91	-0.41	1.34	1.77	0.28	-2.49	-3.66	-4.57	-9.44	-21.52
45	-9.26	-7.32	-3.88	-1.82	-0.38	1.29	1.74	0.30	-2.47	-3.83	-4.85	-9.95	-23.42
60	-8.69	-6.92	-3.72	-1.77	-0.46	1.19	1.72	0.37	-2.37	-3.97	-5.09	-10.13	-24.17
75	-8.26	-6.53	-3.59	-1.78	-0.58	1.10	1.70	0.47	-2.29	-3.97	-5.11	-9.97	-22.27
90	-8.01	-6.22	-3.44	-1.81	-0.74	1.00	1.70	0.57	-2.13	-3.93	-4.95	-9.40	-19.71
105	-8.00	-6.02	-3.35	-1.84	-0.89	0.89	1.70	0.66	-1.99	-3.76	-4.64	-8.62	-17.25
120	-8.16	-5.98	-3.30	-1.91	-1.02	0.81	1.73	0.75	-1.89	-3.51	-4.20	-7.72	-15.24
135	-8.59	-6.05	-3.32	-1.94	-1.14	0.80	1.77	0.78	-1.82	-3.31	-3.78	-6.91	-13.70
150	-9.23	-6.24	-3.44	-2.06	-1.23	0.81	1.83	0.84	-1.83	-3.14	-3.38	-6.19	-12.59
165	-10.06	-6.59	-3.59	-2.23	-1.33	0.82	1.88	0.78	-1.89	-3.02	-3.05	-5.66	-11.68
180	-11.19	-6.99	-3.80	-2.46	-1.47	0.81	1.90	0.79	-1.96	-2.98	-2.79	-5.20	-10.95
195	-12.47	-7.58	-4.15	-2.75	-1.66	0.78	1.89	0.76	-2.05	-2.94	-2.62	-4.90	-10.47
210	-13.83	-8.21	-4.57	-3.17	-1.93	0.71	1.86	0.70	-2.14	-2.93	-2.54	-4.72	-10.15
225	-15.18	-8.93	-5.05	-3.55	-2.17	0.64	1.77	0.60	-2.25	-2.94	-2.49	-4.65	-9.97
240	-16.04	-9.54	-5.53	-4.01	-2.41	0.56	1.74	0.51	-2.36	-2.97	-2.53	-4.70	-10.03
255	-16.08	-9.89	-5.86	-4.32	-2.56	0.55	1.69	0.41	-2.43	-2.98	-2.58	-4.83	-10.09
270	-15.63	-9.99	-6.00	-4.48	-2.54	0.60	1.68	0.32	-2.53	-3.01	-2.66	-5.03	-10.52
285	-14.93	-9.80	-5.93	-4.38	-2.34	0.74	1.71	0.27	-2.56	-3.00	-2.77	-5.28	-11.02
300	-14.27	-9.46	-5.68	-4.05	-2.02	0.91	1.77	0.26	-2.58	-2.99	-2.88	-5.62	-11.76
315	-13.67	-9.14	-5.32	-3.65	-1.64	1.07	1.82	0.26	-2.56	-2.99	-3.03	-6.03	-12.70
330	-13.01	-8.85	-4.99	-3.18	-1.29	1.22	1.85	0.19	-2.53	-3.06	-3.23	-6.55	-13.94
345	-12.35	-8.57	-4.67	-2.78	-0.99	1.31	1.86	0.30	-2.51	-3.13	-3.50	-7.14	-15.38
360	-11.43	-8.25	-4.39	-2.32	-0.65	1.36	1.85	0.29	-2.47	-3.31	-3.89	-8.01	-17.54
Avg.	-11.00	-7.84	-4.50	-2.84	-1.47	0.78	1.61	0.32	-2.44	-3.44	-3.64	-6.68	-13.19
Peak Value		1.895		Minimum Value -24.167									

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.71	-9.31	-4.59	-2.33	-0.73	1.22	1.75	0.23	-2.63	-3.65	-4.16	-8.45	-29.49
15	-14.57	-9.33	-4.47	-2.14	-0.58	1.28	1.75	0.24	-2.69	-3.84	-4.51	-9.04	-28.99
30	-14.70	-9.43	-4.43	-2.03	-0.48	1.28	1.75	0.23	-2.77	-4.15	-4.90	-9.75	-27.74
45	-15.12	-9.58	-4.51	-2.07	-0.50	1.24	1.71	0.20	-2.88	-4.41	-5.20	-10.20	-26.20
60	-15.95	-9.83	-4.66	-2.20	-0.67	1.11	1.64	0.16	-2.95	-4.65	-5.43	-10.35	-25.71
75	-16.98	-9.95	-4.81	-2.40	-0.89	0.96	1.54	0.12	-3.05	-4.75	-5.49	-10.27	-25.10
90	-18.29	-10.00	-4.91	-2.59	-1.16	0.79	1.45	0.08	-3.07	-4.77	-5.33	-9.76	-22.63
105	-19.75	-9.87	-4.95	-2.70	-1.36	0.63	1.38	0.07	-3.03	-4.62	-5.02	-9.01	-19.49
120	-20.94	-9.65	-4.87	-2.76	-1.46	0.56	1.39	0.12	-2.94	-4.33	-4.54	-8.07	-16.72
135	-21.53	-9.35	-4.71	-2.69	-1.49	0.60	1.46	0.22	-2.79	-4.02	-4.05	-7.18	-14.62
150	-21.92	-9.14	-4.62	-2.66	-1.47	0.68	1.60	0.37	-2.62	-3.70	-3.57	-6.36	-13.08
165	-22.28	-9.09	-4.57	-2.70	-1.48	0.76	1.74	0.49	-2.48	-3.40	-3.15	-5.74	-11.94
180	-23.42	-9.14	-4.63	-2.83	-1.57	0.80	1.83	0.61	-2.32	-3.19	-2.82	-5.25	-11.20
195	-24.78	-9.39	-4.84	-3.05	-1.75	0.78	1.87	0.69	-2.23	-3.03	-2.62	-4.97	-10.89
210	-26.50	-9.79	-5.14	-3.40	-2.02	0.68	1.85	0.69	-2.19	-2.97	-2.56	-4.85	-10.88
225	-27.20	-10.30	-5.50	-3.71	-2.28	0.55	1.73	0.59	-2.27	-3.01	-2.58	-4.91	-11.23
240	-25.64	-10.74	-5.87	-4.10	-2.55	0.39	1.62	0.44	-2.43	-3.14	-2.72	-5.11	-11.91
255	-23.16	-11.03	-6.14	-4.35	-2.72	0.29	1.47	0.23	-2.64	-3.28	-2.88	-5.40	-12.74
270	-20.97	-11.10	-6.25	-4.48	-2.75	0.25	1.35	0.03	-2.87	-3.42	-3.05	-5.73	-14.08
285	-19.06	-10.92	-6.18	-4.39	-2.58	0.32	1.31	-0.10	-2.97	-3.44	-3.19	-6.04	-15.52
300	-17.65	-10.54	-5.94	-4.09	-2.27	0.49	1.36	-0.11	-2.98	-3.40	-3.27	-6.37	-17.35
315	-16.55	-10.15	-5.58	-3.69	-1.87	0.69	1.46	-0.04	-2.87	-3.35	-3.38	-6.71	-19.44
330	-15.73	-9.80	-5.21	-3.21	-1.46	0.91	1.57	-0.03	-2.76	-3.37	-3.52	-7.16	-22.16
345	-15.19	-9.49	-4.85	-2.78	-1.11	1.08	1.66	0.17	-2.68	-3.43	-3.78	-7.66	-25.53
360	-14.71	-9.31	-4.59	-2.33	-0.73	1.22	1.75	0.23	-2.63	-3.65	-4.16	-8.45	-29.49
Avg.	-18.32	-10.01	-5.23	-3.17	-1.67	0.60	1.42	0.07	-2.88	-3.86	-3.89	-7.06	-15.31
Peak Value		1.874		Minimum Value -29.490									

Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.17	-14.92	-18.02	-31.33	-18.48	-13.59	-14.39	-18.37	-16.76	-14.58	-15.95	-18.15	-17.82
15	-13.15	-14.07	-16.74	-22.71	-19.24	-15.36	-17.00	-20.90	-16.02	-14.12	-15.95	-19.56	-19.69
30	-11.70	-12.72	-14.57	-17.35	-18.16	-17.50	-20.81	-19.44	-14.57	-13.38	-15.92	-21.05	-22.70
45	-10.56	-11.23	-12.59	-14.35	-15.88	-17.85	-20.62	-15.98	-12.95	-12.85	-16.02	-22.44	-26.68
60	-9.60	-10.04	-10.83	-12.03	-13.62	-15.94	-15.71	-12.89	-11.44	-12.37	-16.24	-23.21	-29.40
75	-8.89	-9.17	-9.69	-10.54	-12.12	-13.79	-12.68	-10.61	-10.24	-11.84	-15.89	-21.69	-25.47
90	-8.44	-8.58	-8.86	-9.66	-11.08	-12.18	-10.69	-9.11	-9.22	-11.48	-15.66	-20.42	-22.82
105	-8.30	-8.34	-8.47	-9.25	-10.78	-11.47	-9.69	-8.26	-8.69	-11.20	-15.41	-19.32	-21.19
120	-8.40	-8.42	-8.50	-9.37	-11.13	-11.62	-9.44	-7.97	-8.56	-11.15	-15.46	-18.84	-20.62
135	-8.82	-8.79	-8.94	-9.95	-12.20	-12.59	-9.87	-8.44	-8.83	-11.54	-15.93	-19.10	-20.92
150	-9.47	-9.36	-9.68	-10.90	-13.84	-14.59	-11.00	-9.07	-9.58	-12.31	-16.97	-20.42	-22.30
165	-10.33	-10.18	-10.52	-12.12	-15.82	-17.94	-12.98	-11.12	-10.89	-13.75	-19.44	-22.69	-23.96
180	-11.46	-11.08	-11.36	-13.29	-17.85	-24.32	-16.38	-13.25	-12.93	-16.29	-24.47	-24.58	-23.38
195	-12.73	-12.24	-12.48	-14.50	-18.86	-31.89	-21.72	-17.30	-16.08	-19.80	-38.24	-23.37	-20.83
210	-14.07	-13.38	-13.73	-15.89	-18.61	-21.06	-24.24	-24.85	-22.11	-22.87	-25.89	-20.17	-18.25
225	-15.46	-14.63	-15.10	-17.74	-17.95	-16.57	-18.04	-25.12	-26.72	-20.98	-19.49	-17.03	-15.98
240	-16.54	-15.74	-16.77	-20.60	-17.36	-13.68	-13.87	-17.54	-19.90	-17.25	-16.20	-15.19	-14.56
255	-17.03	-16.25	-17.96	-25.78	-16.81	-11.81	-11.32	-13.50	-15.69	-14.78	-14.23	-13.94	-13.48
270	-17.13	-16.45	-18.62	-37.99	-15.77	-10.43	-9.68	-11.51	-13.71	-13.48	-13.41	-13.32	-13.04
285	-17.05	-16.24	-18.40	-30.63	-15.09	-9.65	-8.85	-10.58	-12.97	-13.11	-13.18	-13.22	-12.93
300	-16.94	-16.04	-17.92	-25.28	-14.54	-9.47	-8.66	-10.53	-13.13	-13.37	-13.54	-13.65	-13.17
315	-16.83	-15.96	-17.77	-23.76	-14.62	-9.70	-9.12	-11.38	-14.08	-14.05	-14.23	-14.41	-13.73
330	-16.32	-15.91	-17.97	-24.90	-15.28	-10.44	-10.10	-12.87	-15.49	-14.80	-15.04	-15.45	-14.65
345	-15.53	-15.75	-18.50	-30.06	-16.49	-11.56	-11.57	-15.01	-16.62	-14.97	-15.56	-16.62	-15.83
360	-14.17	-14.92	-18.02	-31.33	-18.48	-13.59	-14.39	-18.37	-16.76	-14.58	-15.95	-18.15	-17.82
Avg.	-11.89	-11.91	-12.56	-14.21	-14.86	-13.18	-12.16	-12.19	-12.62	-13.84	-16.15	-17.50	-17.33
Peak Value		-7.970		Minimum Value		-38.239							

RHCP															
$\phi$ [deg]	$\Theta$ [deg]														
	0	15	30	45	60	75	90	105	120	135	150	165	180		
0	-14.17	-16.99	-9.49	-5.44	-2.99	-1.56	-1.57	-2.87	-5.11	-7.11	-8.89	-14.80	-21.08		
15	-13.01	-16.27	-9.31	-5.15	-2.69	-1.26	-1.26	-2.42	-4.63	-6.72	-8.83	-14.74	-21.47		
30	-11.83	-15.67	-9.27	-5.02	-2.46	-1.00	-0.89	-1.95	-4.07	-6.29	-8.58	-14.55	-23.02		
45	-11.09	-15.12	-9.51	-5.13	-2.43	-0.86	-0.66	-1.60	-3.59	-5.84	-8.21	-13.85	-24.52		
60	-10.65	-15.02	-10.01	-5.47	-2.64	-0.92	-0.51	-1.35	-3.18	-5.45	-7.79	-12.91	-26.71		
75	-10.46	-15.02	-10.70	-6.06	-3.07	-1.12	-0.58	-1.27	-2.97	-4.99	-7.16	-11.80	-25.40		
90	-10.62	-15.71	-11.71	-6.84	-3.73	-1.51	-0.79	-1.33	-2.82	-4.65	-6.55	-10.70	-22.19		
105	-11.13	-16.76	-12.79	-7.68	-4.40	-2.01	-1.14	-1.52	-2.81	-4.34	-5.98	-9.73	-19.17		
120	-11.84	-18.39	-13.53	-8.33	-4.99	-2.52	-1.50	-1.79	-2.89	-4.09	-5.48	-8.88	-16.99		
135	-12.80	-20.14	-13.60	-8.41	-5.23	-2.79	-1.82	-2.15	-3.03	-3.98	-5.13	-8.28	-15.68		
150	-13.94	-21.64	-13.08	-8.15	-5.13	-2.81	-1.96	-2.26	-3.22	-3.97	-4.91	-7.94	-15.04		
165	-15.21	-22.14	-12.44	-7.74	-4.81	-2.62	-1.90	-2.47	-3.47	-4.11	-4.92	-7.90	-15.12		
180	-16.51	-21.72	-11.89	-7.35	-4.44	-2.31	-1.76	-2.46	-3.73	-4.46	-5.14	-8.08	-15.64		
195	-17.79	-21.10	-11.50	-7.09	-4.15	-2.04	-1.60	-2.48	-4.03	-4.91	-5.53	-8.49	-16.86		
210	-18.89	-20.73	-11.25	-6.98	-3.99	-1.86	-1.50	-2.56	-4.44	-5.48	-6.14	-9.19	-18.69		
225	-19.99	-20.73	-11.36	-7.05	-4.00	-1.81	-1.53	-2.71	-4.96	-6.32	-6.90	-10.14	-21.75		
240	-20.75	-20.77	-11.45	-7.20	-4.13	-1.94	-1.70	-3.04	-5.60	-7.23	-7.77	-11.16	-26.26		
255	-21.81	-20.93	-11.64	-7.44	-4.34	-2.15	-1.99	-3.49	-6.38	-8.24	-8.63	-12.18	-34.46		
270	-22.52	-20.70	-11.64	-7.57	-4.56	-2.46	-2.39	-4.01	-7.19	-9.09	-9.20	-13.00	-34.17		
285	-22.76	-20.40	-11.55	-7.60	-4.68	-2.70	-2.73	-4.48	-7.76	-9.42	-9.50	-13.54	-27.69		
300	-21.90	-19.84	-11.28	-7.43	-4.66	-2.80	-2.89	-4.70	-7.87	-9.29	-9.46	-13.82	-24.39		
315	-20.19	-19.30	-10.85	-7.08	-4.46	-2.70	-2.83	-4.56	-7.47	-8.82	-9.31	-13.99	-22.75		
330	-18.18	-18.73	-10.41	-6.59	-4.07	-2.43	-2.55	-4.20	-6.79	-8.23	-9.11	-14.26	-21.78		
345	-16.17	-17.89	-9.89	-6.06	-3.58	-2.03	-2.15	-3.50	-6.05	-7.67	-9.02	-14.50	-21.20		
360	-14.17	-16.99	-9.49	-5.44	-2.99	-1.56	-1.57	-2.87	-5.11	-7.11	-8.89	-14.80	-21.08		
Avg.	-14.42	-18.34	-11.26	-6.93	-4.08	-2.14	-1.80	-2.77	-4.63	-6.10	-7.29	-11.07	-19.97		
Peak Value		-0.506		Minimum Value								-34.463			

LHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.72	-8.88	-6.00	-5.23	-4.47	-1.74	-0.78	-2.58	-5.88	-5.66	-5.53	-9.03	-20.07
15	-14.78	-8.78	-5.84	-5.08	-4.58	-2.06	-1.14	-3.08	-6.59	-6.21	-6.04	-9.91	-23.12
30	-14.46	-8.53	-5.58	-4.82	-4.66	-2.48	-1.61	-3.69	-7.65	-7.08	-6.76	-11.04	-26.86
45	-13.89	-8.11	-5.27	-4.55	-4.62	-2.79	-1.99	-4.20	-8.90	-8.12	-7.54	-12.22	-29.92
60	-13.09	-7.65	-4.89	-4.18	-4.49	-2.95	-2.26	-4.48	-10.06	-9.37	-8.43	-13.39	-27.70
75	-12.28	-7.19	-4.53	-3.80	-4.17	-2.87	-2.18	-4.36	-10.68	-10.78	-9.37	-14.61	-25.17
90	-11.45	-6.74	-4.14	-3.45	-3.77	-2.57	-1.90	-3.93	-10.46	-12.08	-10.04	-15.29	-23.32
105	-10.90	-6.41	-3.88	-3.14	-3.45	-2.24	-1.49	-3.37	-9.62	-12.76	-10.41	-15.11	-21.70
120	-10.59	-6.24	-3.74	-3.03	-3.24	-1.90	-1.06	-2.79	-8.75	-12.59	-10.16	-14.04	-20.04
135	-10.66	-6.23	-3.75	-3.05	-3.29	-1.69	-0.72	-2.31	-7.98	-11.76	-9.51	-12.58	-18.07
150	-11.02	-6.37	-3.94	-3.28	-3.50	-1.67	-0.52	-2.09	-7.43	-10.73	-8.64	-10.99	-16.24
165	-11.65	-6.71	-4.19	-3.66	-3.91	-1.80	-0.48	-2.00	-7.06	-9.55	-7.59	-9.60	-14.30
180	-12.70	-7.14	-4.53	-4.16	-4.51	-2.10	-0.55	-2.00	-6.71	-8.37	-6.58	-8.35	-12.75
195	-13.98	-7.77	-5.03	-4.75	-5.27	-2.44	-0.69	-2.04	-6.42	-7.33	-5.74	-7.41	-11.60
210	-15.45	-8.46	-5.62	-5.50	-6.15	-2.79	-0.83	-2.07	-6.00	-6.45	-5.03	-6.65	-10.81
225	-16.92	-9.23	-6.21	-6.12	-6.80	-3.02	-0.96	-2.12	-5.59	-5.60	-4.45	-6.09	-10.27
240	-17.82	-9.88	-6.81	-6.84	-7.27	-3.02	-0.87	-2.03	-5.15	-5.01	-4.07	-5.82	-10.13
255	-17.43	-10.24	-7.20	-7.22	-7.28	-2.81	-0.74	-1.87	-4.66	-4.52	-3.81	-5.71	-10.10
270	-16.62	-10.37	-7.38	-7.41	-6.84	-2.36	-0.49	-1.67	-4.34	-4.24	-3.75	-5.78	-10.54
285	-15.71	-10.19	-7.32	-7.18	-6.14	-1.89	-0.22	-1.50	-4.12	-4.12	-3.81	-5.98	-11.12
300	-15.09	-9.88	-7.07	-6.72	-5.42	-1.51	-0.04	-1.41	-4.10	-4.14	-3.96	-6.34	-12.01
315	-14.77	-9.58	-6.75	-6.27	-4.86	-1.29	0.00	-1.47	-4.25	-4.31	-4.20	-6.78	-13.15
330	-14.58	-9.32	-6.45	-5.83	-4.54	-1.23	-0.10	-1.77	-4.57	-4.64	-4.52	-7.36	-14.72
345	-14.68	-9.11	-6.22	-5.53	-4.45	-1.39	-0.33	-2.04	-5.05	-5.02	-4.93	-8.03	-16.70
360	-14.72	-8.88	-6.00	-5.23	-4.47	-1.74	-0.78	-2.58	-5.88	-5.66	-5.53	-9.03	-20.07
Avg.	-13.63	-8.25	-5.52	-4.99	-4.92	-2.33	-1.04	-2.62	-6.47	-6.84	-6.09	-8.65	-14.22
Peak Value		0.002		Minimum Value -29.924									

AR													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	29.89	7.22	14.04	38.50	21.42	39.52	26.87	35.75	27.12	21.63	14.38	9.88	24.74
15	19.90	7.83	14.11	48.56	19.31	26.78	43.35	28.49	19.00	30.60	15.96	11.33	20.51
30	16.48	8.19	13.59	38.57	17.99	21.41	27.69	20.04	13.85	26.91	19.66	13.99	13.25
45	15.96	8.34	12.42	29.52	18.01	19.10	22.37	16.57	10.56	17.69	28.23	20.61	10.42
60	17.12	7.94	10.86	22.56	19.48	18.65	19.97	14.98	8.49	13.06	28.65	31.18	24.87
75	19.61	7.49	9.34	17.75	24.00	19.96	20.73	15.09	7.60	9.85	17.95	15.89	37.68
90	26.44	6.47	7.75	14.30	52.67	24.34	23.91	16.57	7.68	7.89	14.07	11.76	23.72
105	37.54	5.45	6.51	11.86	25.25	37.86	33.90	19.45	8.57	6.94	12.06	10.44	16.80
120	22.89	4.38	5.84	10.58	19.99	28.87	31.91	24.81	9.77	6.87	11.60	10.79	15.20
135	18.25	3.55	5.79	10.48	19.08	24.00	24.02	40.59	11.14	7.53	12.15	12.31	17.29
150	15.58	3.02	6.33	11.26	20.58	23.63	21.66	40.31	12.47	8.63	13.50	15.21	23.21
165	13.89	2.97	7.10	12.76	25.72	26.53	21.74	31.43	13.83	10.36	16.34	20.21	26.47
180	13.30	3.28	7.96	14.82	47.76	38.11	23.18	31.40	15.40	13.11	21.69	36.07	15.65
195	13.32	3.80	8.98	17.45	23.83	32.73	25.62	31.90	17.28	17.17	38.42	24.15	10.65
210	14.18	4.32	10.09	21.39	18.13	25.42	28.36	30.96	20.97	25.14	23.89	16.76	7.44
225	15.14	4.74	10.80	25.42	15.92	23.17	29.68	29.34	28.83	27.68	17.06	12.80	4.75
240	15.54	5.10	11.67	33.59	14.96	24.19	26.45	24.67	31.66	17.93	13.57	10.50	2.73
255	12.15	5.23	12.03	37.97	15.53	28.44	22.91	20.66	20.11	13.52	11.36	8.97	1.05
270	9.71	5.46	12.38	40.53	17.68	44.67	19.26	17.46	15.78	11.30	10.36	8.11	1.14
285	8.30	5.55	12.43	32.38	21.54	26.60	16.89	15.40	13.72	10.57	9.99	7.75	2.60
300	8.57	5.72	12.49	27.82	27.18	22.61	15.76	14.56	13.39	10.81	10.27	7.83	4.26
315	10.40	5.89	12.70	26.61	32.88	21.83	15.84	15.11	14.73	11.89	10.87	8.12	5.97
330	13.79	6.12	13.00	27.13	31.44	23.29	17.07	17.17	17.93	13.83	11.76	8.46	8.28
345	21.34	6.63	13.65	30.42	26.01	28.60	19.64	21.56	24.77	16.41	12.71	8.97	11.93
360	29.89	7.22	14.04	38.50	21.42	39.52	26.87	35.75	27.12	21.63	14.38	9.88	24.74
Avg.	25.10	5.74	11.09	36.52	40.02	33.71	30.94	31.40	21.75	20.94	25.69	23.90	24.90
Peak Value		#####		Minimum Value 1.053									

508.5 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-11.61	-8.77	-4.98	-2.96	-1.29	0.75	1.25	-0.26	-2.99	-3.79	-4.37	-8.43	-17.46
15	-10.94	-8.53	-4.80	-2.71	-1.14	0.75	1.21	-0.29	-2.97	-3.92	-4.67	-9.14	-19.40
30	-10.03	-8.17	-4.59	-2.48	-1.03	0.72	1.16	-0.27	-2.96	-4.10	-5.03	-9.84	-22.09
45	-9.27	-7.65	-4.38	-2.38	-1.00	0.67	1.17	-0.23	-2.91	-4.25	-5.32	-10.34	-24.43
60	-8.63	-7.15	-4.20	-2.30	-1.04	0.66	1.12	-0.15	-2.79	-4.35	-5.51	-10.55	-25.07
75	-8.15	-6.73	-4.02	-2.30	-1.16	0.50	1.12	-0.04	-2.69	-4.36	-5.55	-10.32	-22.53
90	-7.87	-6.39	-3.86	-2.32	-1.30	0.40	1.14	0.09	-2.53	-4.30	-5.39	-9.78	-19.73
105	-7.81	-6.17	-3.74	-2.32	-1.46	0.30	1.15	0.18	-2.37	-4.15	-5.09	-9.01	-17.44
120	-8.01	-6.15	-3.71	-2.41	-1.60	0.22	1.18	0.28	-2.26	-3.93	-4.67	-8.13	-15.48
135	-8.40	-6.27	-3.75	-2.49	-1.76	0.17	1.21	0.29	-2.23	-3.73	-4.26	-7.35	-14.04
150	-9.09	-6.53	-3.87	-2.61	-1.87	0.17	1.25	0.32	-2.28	-3.60	-3.87	-6.68	-12.97
165	-9.97	-6.92	-4.07	-2.82	-2.02	0.15	1.28	0.34	-2.36	-3.51	-3.56	-6.15	-12.20
180	-11.08	-7.39	-4.37	-3.08	-2.18	0.13	1.29	0.24	-2.47	-3.51	-3.33	-5.73	-11.43
195	-12.34	-8.03	-4.71	-3.40	-2.36	0.10	1.27	0.19	-2.59	-3.50	-3.17	-5.43	-10.97
210	-13.71	-8.73	-5.19	-3.82	-2.65	0.04	1.25	0.13	-2.70	-3.48	-3.09	-5.24	-10.61
225	-15.14	-9.46	-5.66	-4.21	-2.88	-0.01	1.24	0.05	-2.82	-3.52	-3.05	-5.20	-10.34
240	-15.91	-10.09	-6.18	-4.72	-3.13	-0.08	1.16	-0.03	-2.89	-3.52	-3.08	-5.22	-10.28
255	-16.04	-10.40	-6.51	-5.04	-3.25	-0.08	1.12	-0.11	-2.95	-3.51	-3.11	-5.30	-10.30
270	-15.57	-10.48	-6.65	-5.19	-3.20	0.01	1.14	-0.17	-3.02	-3.52	-3.19	-5.48	-10.64
285	-14.96	-10.26	-6.52	-5.03	-3.00	0.16	1.19	-0.22	-3.04	-3.50	-3.27	-5.71	-11.10
300	-14.32	-9.93	-6.24	-4.69	-2.65	0.35	1.24	-0.23	-3.06	-3.52	-3.41	-6.05	-11.76
315	-13.82	-9.57	-5.89	-4.26	-2.28	0.51	1.28	-0.26	-3.06	-3.52	-3.54	-6.46	-12.68
330	-13.22	-9.30	-5.56	-3.80	-1.92	0.64	1.30	-0.33	-3.05	-3.58	-3.74	-6.97	-13.88
345	-12.55	-9.07	-5.27	-3.39	-1.62	0.71	1.29	-0.24	-3.02	-3.63	-4.00	-7.60	-15.36
360	-11.61	-8.77	-4.98	-2.96	-1.29	0.75	1.25	-0.26	-2.99	-3.79	-4.37	-8.43	-17.46
Avg.	-10.94	-8.19	-5.02	-3.43	-2.11	0.16	1.03	-0.20	-2.92	-3.93	-4.15	-7.15	-13.46
Peak Value		1.295		Minimum Value -25.069									

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-15.47	-10.02	-5.20	-2.96	-1.38	0.58	1.13	-0.33	-3.18	-4.18	-4.68	-8.91	-29.33
15	-15.36	-10.04	-5.10	-2.76	-1.21	0.64	1.15	-0.33	-3.20	-4.38	-5.00	-9.55	-30.67
30	-15.53	-10.14	-5.08	-2.64	-1.12	0.65	1.13	-0.33	-3.30	-4.67	-5.39	-10.15	-29.52
45	-15.96	-10.33	-5.13	-2.69	-1.16	0.60	1.14	-0.36	-3.40	-4.94	-5.72	-10.60	-28.13
60	-16.75	-10.49	-5.29	-2.81	-1.31	0.55	1.03	-0.40	-3.48	-5.16	-5.92	-10.79	-27.58
75	-17.78	-10.66	-5.45	-3.04	-1.56	0.33	0.93	-0.46	-3.59	-5.29	-6.01	-10.67	-26.31
90	-19.25	-10.72	-5.59	-3.24	-1.81	0.14	0.84	-0.48	-3.62	-5.31	-5.86	-10.20	-23.10
105	-20.89	-10.61	-5.58	-3.35	-2.03	-0.02	0.77	-0.51	-3.58	-5.18	-5.55	-9.48	-20.06
120	-22.16	-10.35	-5.50	-3.42	-2.14	-0.08	0.78	-0.44	-3.49	-4.91	-5.09	-8.54	-17.14
135	-22.83	-10.07	-5.37	-3.36	-2.18	-0.06	0.86	-0.34	-3.34	-4.57	-4.60	-7.67	-15.05
150	-23.31	-9.89	-5.26	-3.33	-2.17	0.02	0.98	-0.21	-3.20	-4.27	-4.10	-6.88	-13.53
165	-23.91	-9.80	-5.22	-3.38	-2.20	0.08	1.12	-0.07	-3.03	-3.97	-3.69	-6.25	-12.48
180	-24.94	-9.91	-5.34	-3.52	-2.30	0.11	1.22	0.05	-2.88	-3.76	-3.37	-5.79	-11.70
195	-26.48	-10.17	-5.52	-3.75	-2.47	0.10	1.26	0.12	-2.78	-3.61	-3.18	-5.50	-11.43
210	-28.94	-10.58	-5.84	-4.10	-2.77	0.00	1.23	0.12	-2.74	-3.54	-3.12	-5.39	-11.47
225	-29.29	-11.09	-6.19	-4.41	-3.02	-0.12	1.18	0.03	-2.84	-3.61	-3.16	-5.50	-11.80
240	-26.86	-11.54	-6.58	-4.82	-3.31	-0.29	1.00	-0.12	-2.99	-3.72	-3.30	-5.70	-12.44
255	-24.07	-11.79	-6.85	-5.07	-3.46	-0.41	0.83	-0.34	-3.22	-3.88	-3.46	-5.98	-13.34
270	-21.71	-11.87	-6.96	-5.19	-3.47	-0.43	0.74	-0.53	-3.43	-4.00	-3.64	-6.30	-14.64
285	-19.91	-11.62	-6.83	-5.05	-3.30	-0.35	0.70	-0.67	-3.53	-4.02	-3.74	-6.59	-16.05
300	-18.34	-11.26	-6.56	-4.74	-2.96	-0.16	0.74	-0.67	-3.52	-3.99	-3.84	-6.89	-17.70
315	-17.25	-10.82	-6.20	-4.31	-2.55	0.06	0.84	-0.62	-3.43	-3.92	-3.91	-7.20	-19.62
330	-16.47	-10.45	-5.83	-3.84	-2.13	0.28	0.96	-0.58	-3.30	-3.92	-4.06	-7.64	-22.08
345	-15.90	-10.18	-5.49	-3.40	-1.77	0.45	1.05	-0.38	-3.22	-3.96	-4.30	-8.16	-25.30
360	-15.47	-10.02	-5.20	-2.96	-1.38	0.58	1.13	-0.33	-3.18	-4.18	-4.68	-8.91	-29.33
Avg.	-19.19	-10.74	-5.89	-3.82	-2.36	-0.05	0.81	-0.50	-3.43	-4.42	-4.44	-7.58	-15.84
Peak Value		1.255		Minimum Value -30.668									



Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-13.90	-14.79	-17.95	-31.17	-18.40	-13.38	-14.22	-18.36	-16.56	-14.54	-16.03	-18.26	-17.75
15	-12.89	-13.85	-16.56	-22.27	-19.05	-15.27	-16.87	-20.42	-15.71	-13.93	-16.01	-19.66	-19.73
30	-11.47	-12.55	-14.34	-16.99	-17.89	-17.18	-20.61	-18.97	-14.23	-13.22	-16.01	-21.41	-22.96
45	-10.31	-11.03	-12.42	-14.07	-15.50	-17.45	-20.08	-15.63	-12.63	-12.56	-15.94	-22.63	-26.84
60	-9.35	-9.86	-10.71	-11.84	-13.33	-15.58	-15.44	-12.65	-11.13	-12.03	-15.96	-23.33	-28.64
75	-8.65	-8.99	-9.53	-10.36	-11.81	-13.48	-12.52	-10.42	-9.96	-11.53	-15.57	-21.43	-24.89
90	-8.20	-8.38	-8.69	-9.49	-10.81	-11.96	-10.53	-8.98	-9.04	-11.14	-15.30	-20.04	-22.42
105	-8.03	-8.11	-8.36	-9.07	-10.58	-11.30	-9.60	-8.13	-8.52	-10.90	-15.09	-18.96	-20.87
120	-8.18	-8.23	-8.41	-9.23	-10.99	-11.51	-9.36	-7.87	-8.36	-10.89	-15.10	-18.57	-20.46
135	-8.56	-8.60	-8.81	-9.87	-12.09	-12.54	-9.89	-8.41	-8.70	-11.26	-15.57	-18.93	-20.86
150	-9.26	-9.21	-9.50	-10.77	-13.71	-14.62	-11.02	-9.08	-9.45	-12.06	-16.75	-20.14	-22.15
165	-10.15	-10.06	-10.41	-12.03	-15.82	-18.26	-13.06	-10.10	-10.78	-13.47	-18.95	-22.56	-24.25
180	-11.26	-10.96	-11.34	-13.24	-17.86	-25.17	-16.65	-13.43	-12.92	-16.07	-24.34	-24.68	-23.58
195	-12.52	-12.13	-12.42	-14.52	-18.63	-30.25	-22.27	-17.78	-16.22	-19.53	-35.87	-23.44	-20.91
210	-13.84	-13.33	-13.76	-15.91	-18.33	-20.33	-23.41	-26.06	-22.25	-22.49	-25.69	-20.03	-18.06
225	-15.31	-14.52	-15.06	-17.77	-17.79	-15.97	-17.33	-24.25	-25.54	-20.61	-19.23	-16.93	-15.78
240	-16.28	-15.57	-16.79	-21.12	-17.13	-13.30	-13.32	-16.94	-19.40	-16.85	-16.06	-14.98	-14.34
255	-16.78	-16.05	-17.84	-26.54	-16.52	-11.47	-10.89	-13.10	-15.25	-14.49	-14.15	-13.72	-13.29
270	-16.78	-16.13	-18.33	-41.66	-15.41	-10.13	-9.36	-11.20	-13.47	-13.30	-13.27	-13.14	-12.84
285	-16.64	-15.96	-18.11	-29.07	-14.83	-9.41	-8.54	-10.35	-12.73	-13.03	-13.17	-13.11	-12.77
300	-16.51	-15.73	-17.67	-24.52	-14.33	-9.21	-8.42	-10.33	-12.95	-13.36	-13.64	-13.59	-13.04
315	-16.45	-15.61	-17.48	-23.15	-14.47	-9.54	-8.95	-11.24	-14.04	-14.08	-14.35	-14.46	-13.67
330	-16.01	-15.65	-17.75	-24.60	-15.18	-10.30	-9.98	-12.77	-15.45	-14.86	-15.25	-15.40	-14.59
345	-15.25	-15.52	-18.29	-29.94	-16.53	-11.51	-11.52	-15.06	-16.53	-14.99	-15.76	-16.75	-15.82
360	-13.90	-14.79	-17.95	-31.17	-18.40	-13.38	-14.22	-18.36	-16.56	-14.54	-16.03	-18.26	-17.75
Avg.	-11.64	-11.73	-12.44	-14.08	-14.66	-12.97	-11.99	-12.00	-12.44	-13.62	-16.06	-17.41	-17.20
Peak Value	-7.866		Minimum Value -41.662										

RHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.37	-18.42	-10.31	-6.09	-3.55	-2.12	-2.18	-3.38	-5.57	-7.59	-9.47	-15.45	-21.52
15	-13.15	-17.60	-10.13	-5.79	-3.21	-1.78	-1.82	-2.91	-4.98	-7.16	-9.31	-15.41	-22.04
30	-11.96	-16.65	-10.16	-5.65	-2.99	-1.51	-1.45	-2.40	-4.41	-6.64	-9.04	-14.96	-23.92
45	-11.13	-15.84	-10.30	-5.77	-2.99	-1.39	-1.15	-2.03	-3.91	-6.16	-8.62	-14.26	-25.48
60	-10.61	-15.40	-10.88	-6.16	-3.20	-1.37	-1.04	-1.77	-3.48	-5.69	-8.12	-13.21	-27.24
75	-10.37	-15.40	-11.60	-6.76	-3.65	-1.66	-1.11	-1.70	-3.26	-5.27	-7.49	-12.03	-25.12
90	-10.47	-15.80	-12.75	-7.62	-4.31	-2.08	-1.33	-1.76	-3.12	-4.91	-6.88	-10.95	-21.76
105	-10.91	-16.82	-13.84	-8.54	-5.05	-2.60	-1.70	-1.96	-3.12	-4.62	-6.32	-10.00	-19.14
120	-11.55	-18.40	-14.88	-9.28	-5.70	-3.15	-2.10	-2.24	-3.20	-4.39	-5.82	-9.17	-17.01
135	-12.39	-20.42	-15.06	-9.40	-5.98	-3.48	-2.43	-2.65	-3.37	-4.28	-5.49	-8.63	-15.82
150	-13.53	-22.59	-14.57	-9.16	-5.87	-3.49	-2.61	-2.80	-3.60	-4.31	-5.31	-8.32	-15.26
165	-14.72	-24.09	-13.78	-8.67	-5.55	-3.30	-2.57	-2.90	-3.85	-4.47	-5.32	-8.34	-15.52
180	-15.98	-24.30	-13.21	-8.23	-5.14	-2.98	-2.41	-3.04	-4.15	-4.89	-5.64	-8.57	-16.16
195	-17.20	-23.80	-12.72	-7.92	-4.79	-2.66	-2.24	-3.07	-4.51	-5.39	-6.05	-9.06	-17.57
210	-18.16	-23.35	-12.41	-7.80	-4.62	-2.47	-2.13	-3.14	-4.94	-6.02	-6.75	-9.84	-19.86
225	-19.42	-23.27	-12.47	-7.81	-4.60	-2.37	-2.05	-3.27	-5.49	-6.93	-7.62	-10.94	-23.50
240	-20.32	-23.13	-12.53	-7.97	-4.73	-2.52	-2.31	-3.59	-6.15	-7.92	-8.56	-12.09	-29.23
255	-21.25	-22.91	-12.71	-8.18	-4.92	-2.73	-2.61	-4.05	-6.98	-9.01	-9.47	-13.17	-39.42
270	-21.95	-22.57	-12.68	-8.31	-5.12	-3.03	-3.01	-4.58	-7.81	-9.92	-10.12	-13.98	-30.35
285	-22.20	-22.06	-12.44	-8.28	-5.29	-3.29	-3.37	-5.10	-8.39	-10.26	-10.32	-14.45	-25.77
300	-21.71	-21.55	-12.10	-8.13	-5.26	-3.39	-3.56	-5.33	-8.53	-10.12	-10.24	-14.64	-23.45
315	-20.40	-21.06	-11.69	-7.75	-5.05	-3.29	-3.50	-5.18	-8.07	-9.55	-10.02	-14.72	-22.28
330	-18.36	-20.39	-11.25	-7.23	-4.65	-3.00	-3.20	-4.80	-7.36	-8.83	-9.76	-15.02	-21.64
345	-16.44	-19.52	-10.76	-6.69	-4.16	-2.60	-2.76	-4.05	-6.52	-8.22	-9.65	-15.19	-21.39
360	-14.37	-18.42	-10.31	-6.09	-3.55	-2.12	-2.18	-3.38	-5.57	-7.59	-9.47	-15.45	-21.52
Avg.	-14.27	-19.34	-12.25	-7.67	-4.68	-2.72	-2.39	-3.28	-5.03	-6.53	-7.80	-11.59	-20.29
Peak Value	-1.044		Minimum Value -39.424										



LHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.89	-9.27	-6.48	-5.85	-5.21	-2.40	-1.37	-3.17	-6.48	-6.14	-5.98	-9.39	-19.62
15	-14.94	-9.10	-6.31	-5.65	-5.34	-2.79	-1.77	-3.72	-7.26	-6.72	-6.50	-10.32	-22.81
30	-14.49	-8.83	-6.00	-5.34	-5.41	-3.23	-2.29	-4.37	-8.43	-7.64	-7.23	-11.43	-26.74
45	-13.83	-8.37	-5.67	-5.05	-5.35	-3.57	-2.66	-4.92	-9.81	-8.72	-8.06	-12.59	-31.12
60	-12.99	-7.86	-5.24	-4.60	-5.12	-3.64	-2.94	-5.21	-11.14	-10.10	-8.97	-13.94	-29.12
75	-12.12	-7.36	-4.85	-4.23	-4.77	-3.56	-2.85	-5.04	-11.81	-11.60	-9.99	-15.18	-26.00
90	-11.33	-6.92	-4.46	-3.84	-4.30	-3.22	-2.49	-4.50	-11.45	-13.12	-10.75	-16.03	-24.03
105	-10.74	-6.56	-4.19	-3.51	-3.96	-2.83	-2.03	-3.91	-10.42	-14.01	-11.18	-15.94	-22.32
120	-10.55	-6.42	-4.05	-3.41	-3.74	-2.46	-1.58	-3.28	-9.39	-13.90	-11.01	-14.83	-20.75
135	-10.61	-6.44	-4.08	-3.48	-3.82	-2.27	-1.25	-2.79	-8.58	-12.98	-10.36	-13.30	-18.78
150	-11.02	-6.64	-4.26	-3.70	-4.08	-2.28	-1.05	-2.57	-8.09	-11.83	-9.38	-11.71	-16.85
165	-11.74	-7.00	-4.56	-4.13	-4.56	-2.46	-1.02	-2.46	-7.72	-10.52	-8.33	-10.18	-14.92
180	-12.78	-7.48	-4.98	-4.66	-5.25	-2.80	-1.13	-2.51	-7.40	-9.17	-7.18	-8.92	-13.21
195	-14.07	-8.15	-5.46	-5.29	-6.05	-3.17	-1.28	-2.58	-7.06	-8.02	-6.32	-7.91	-12.03
210	-15.64	-8.88	-6.11	-6.04	-7.05	-3.55	-1.43	-2.64	-6.63	-7.02	-5.54	-7.10	-11.16
225	-17.17	-9.65	-6.67	-6.71	-7.74	-3.79	-1.50	-2.68	-6.19	-6.17	-4.92	-6.54	-10.56
240	-17.87	-10.31	-7.33	-7.50	-8.24	-3.75	-1.43	-2.55	-5.67	-5.48	-4.53	-6.22	-10.33
255	-17.59	-10.66	-7.71	-7.91	-8.21	-3.48	-1.28	-2.36	-5.14	-4.95	-4.25	-6.08	-10.31
270	-16.70	-10.76	-7.90	-8.09	-7.67	-2.97	-0.96	-2.12	-4.77	-4.65	-4.17	-6.14	-10.68
285	-15.87	-10.56	-7.80	-7.82	-6.88	-2.44	-0.68	-1.93	-4.53	-4.53	-4.22	-6.34	-11.25
300	-15.19	-10.24	-7.54	-7.32	-6.11	-2.04	-0.51	-1.83	-4.50	-4.59	-4.42	-6.70	-12.06
315	-14.90	-9.89	-7.21	-6.84	-5.54	-1.84	-0.48	-1.95	-4.71	-4.76	-4.64	-7.16	-13.19
330	-14.82	-9.66	-6.93	-6.43	-5.24	-1.82	-0.61	-2.24	-5.06	-5.12	-4.99	-7.71	-14.68
345	-14.83	-9.48	-6.71	-6.13	-5.17	-2.01	-0.89	-2.57	-5.59	-5.49	-5.38	-8.43	-16.61
360	-14.89	-9.27	-6.48	-5.85	-5.21	-2.40	-1.37	-3.17	-6.48	-6.14	-5.98	-9.39	-19.62
Avg.	-13.65	-8.54	-5.93	-5.49	-5.60	-2.98	-1.60	-3.14	-7.06	-7.40	-6.60	-9.08	-14.46
Peak Value		-0.478		Minimum Value		-31.116							

AR													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	30.49	6.32	13.28	36.94	20.41	35.80	26.66	38.11	25.60	21.58	14.06	9.50	19.28
15	19.80	6.87	13.29	42.06	18.27	24.76	51.43	26.65	17.70	31.97	15.88	10.90	27.00
30	16.80	7.50	12.57	34.94	17.19	20.13	26.39	18.95	12.87	24.80	19.66	13.95	15.85
45	16.24	7.84	11.68	27.61	17.39	18.06	21.24	15.67	9.69	16.68	29.79	20.41	10.07
60	17.32	7.77	10.07	20.96	19.18	17.72	19.29	14.19	7.65	12.10	26.30	27.49	19.35
75	19.96	7.29	8.63	16.80	23.88	19.23	20.05	14.42	6.82	9.15	16.91	14.93	25.91
90	26.20	6.54	7.05	13.38	62.83	23.65	23.50	16.12	7.02	7.12	13.20	10.93	17.72
105	40.14	5.51	5.94	11.00	24.07	37.27	34.26	19.07	8.02	6.14	11.29	9.64	14.87
120	24.83	4.47	5.14	9.74	19.00	28.04	30.53	24.49	9.31	6.04	10.75	10.05	13.48
135	19.82	3.52	5.05	9.68	18.18	23.16	23.32	42.01	10.72	6.69	11.27	11.61	15.45
150	16.86	2.79	5.47	10.33	19.74	23.14	20.95	37.45	11.94	7.80	12.76	14.29	20.81
165	15.41	2.45	6.27	11.86	24.83	26.35	21.06	31.95	13.18	9.51	15.31	19.55	29.31
180	14.78	2.52	7.10	13.85	43.97	39.72	22.66	30.31	14.66	12.33	21.06	33.91	15.48
195	14.97	2.89	8.07	16.45	22.85	30.62	25.12	31.07	16.75	16.44	36.10	23.59	10.22
210	16.86	3.33	9.18	19.91	17.14	24.13	27.92	30.76	20.27	24.73	23.13	16.10	6.69
225	17.78	3.67	9.84	23.97	14.97	21.75	29.90	29.35	27.93	27.10	16.25	12.12	3.98
240	17.09	4.04	10.72	31.26	14.00	23.02	25.87	24.42	31.20	17.11	12.84	9.75	1.98
255	13.65	4.33	11.06	36.31	14.55	27.21	22.35	20.27	19.54	12.79	10.70	8.25	0.61
270	10.65	4.56	11.42	37.61	16.74	49.53	18.62	17.02	15.22	10.62	9.63	7.47	1.81
285	9.15	4.74	11.68	31.58	20.80	26.20	16.26	14.85	13.21	9.94	9.45	7.22	3.30
300	8.91	4.85	11.82	26.63	26.28	22.24	15.20	14.02	12.84	10.22	9.81	7.38	4.80
315	10.27	4.93	11.97	25.63	31.04	21.57	15.27	14.70	14.37	11.40	10.45	7.75	6.37
330	13.93	5.20	12.25	26.80	29.43	23.31	16.62	16.70	17.60	13.54	11.43	8.01	8.39
345	20.66	5.66	12.81	29.92	24.76	29.26	19.41	21.45	25.44	16.15	12.37	8.62	11.42
360	30.49	6.32	13.28	36.94	20.41	35.80	26.66	38.11	25.60	21.58	14.06	9.50	19.28
Avg.	27.19	5.13	10.26	32.09	48.92	36.61	37.72	31.54	21.14	21.04	23.98	21.71	19.67
Peak Value		#####		Minimum Value		0.608							

509.8 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-11.93	-9.09	-5.31	-3.28	-1.66	0.41	0.94	-0.55	-3.24	-4.05	-4.63	-8.61	-17.72
15	-11.19	-8.87	-5.12	-3.02	-1.51	0.42	0.90	-0.56	-3.24	-4.19	-4.94	-9.29	-19.93
30	-10.21	-8.52	-4.93	-2.80	-1.40	0.38	0.84	-0.55	-3.20	-4.35	-5.26	-9.99	-22.70
45	-9.44	-7.97	-4.71	-2.68	-1.35	0.32	0.84	-0.51	-3.14	-4.47	-5.56	-10.48	-25.77
60	-8.84	-7.45	-4.52	-2.62	-1.40	0.32	0.79	-0.43	-3.05	-4.57	-5.72	-10.67	-25.89
75	-8.35	-7.02	-4.33	-2.61	-1.50	0.16	0.80	-0.32	-2.94	-4.57	-5.75	-10.44	-22.88
90	-8.03	-6.66	-4.16	-2.62	-1.65	0.04	0.82	-0.19	-2.76	-4.52	-5.60	-9.92	-20.05
105	-7.97	-6.44	-4.05	-2.63	-1.82	-0.06	0.83	-0.09	-2.62	-4.38	-5.33	-9.19	-17.57
120	-8.18	-6.43	-4.00	-2.74	-1.99	-0.15	0.85	-0.01	-2.52	-4.17	-4.90	-8.35	-15.66
135	-8.57	-6.54	-4.05	-2.84	-2.14	-0.19	0.89	0.01	-2.52	-4.00	-4.52	-7.59	-14.30
150	-9.28	-6.84	-4.20	-2.95	-2.28	-0.22	0.93	0.03	-2.54	-3.87	-4.14	-6.94	-13.26
165	-10.13	-7.24	-4.41	-3.20	-2.44	-0.24	0.94	0.06	-2.65	-3.81	-3.83	-6.43	-12.41
180	-11.30	-7.72	-4.70	-3.44	-2.62	-0.25	0.94	-0.06	-2.75	-3.82	-3.63	-6.00	-11.75
195	-12.61	-8.40	-5.07	-3.77	-2.83	-0.30	0.94	-0.10	-2.88	-3.81	-3.48	-5.71	-11.31
210	-13.98	-9.11	-5.58	-4.22	-3.09	-0.37	0.90	-0.15	-3.00	-3.82	-3.39	-5.54	-10.92
225	-15.37	-9.85	-6.08	-4.65	-3.35	-0.41	0.91	-0.25	-3.09	-3.81	-3.38	-5.46	-10.64
240	-16.06	-10.50	-6.61	-5.13	-3.60	-0.45	0.85	-0.31	-3.17	-3.81	-3.37	-5.49	-10.53
255	-16.15	-10.80	-6.91	-5.44	-3.71	-0.45	0.81	-0.38	-3.22	-3.82	-3.40	-5.60	-10.61
270	-15.73	-10.80	-7.03	-5.58	-3.66	-0.34	0.84	-0.44	-3.27	-3.82	-3.48	-5.78	-10.86
285	-15.12	-10.59	-6.89	-5.42	-3.41	-0.18	0.88	-0.49	-3.31	-3.81	-3.58	-6.00	-11.28
300	-14.57	-10.22	-6.59	-5.07	-3.07	0.00	0.94	-0.51	-3.34	-3.81	-3.68	-6.35	-11.97
315	-13.99	-9.91	-6.23	-4.61	-2.67	0.17	0.98	-0.55	-3.33	-3.81	-3.82	-6.74	-12.94
330	-13.39	-9.61	-5.90	-4.15	-2.29	0.29	0.98	-0.62	-3.31	-3.85	-4.03	-7.23	-14.17
345	-12.80	-9.40	-5.59	-3.72	-2.00	0.38	0.96	-0.53	-3.29	-3.94	-4.26	-7.86	-15.64
360	-11.93	-9.09	-5.31	-3.28	-1.66	0.41	0.94	-0.55	-3.24	-4.05	-4.63	-8.61	-17.72
Avg.	-11.13	-8.51	-5.36	-3.78	-2.50	-0.20	0.71	-0.48	-3.18	-4.21	-4.42	-7.40	-13.73
Peak Value	0.982	Minimum Value -25.892											

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.03	-10.38	-5.55	-3.28	-1.75	0.24	0.81	-0.62	-3.43	-4.42	-4.91	-9.04	-28.88
15	-15.87	-10.44	-5.43	-3.07	-1.58	0.31	0.83	-0.60	-3.49	-4.64	-5.25	-9.65	-31.02
30	-16.00	-10.57	-5.42	-2.97	-1.50	0.31	0.81	-0.61	-3.55	-4.94	-5.60	-10.27	-31.64
45	-16.48	-10.77	-5.49	-3.00	-1.52	0.24	0.80	-0.65	-3.65	-5.19	-5.94	-10.72	-30.71
60	-17.29	-10.93	-5.64	-3.16	-1.68	0.20	0.69	-0.69	-3.77	-5.42	-6.16	-10.92	-29.71
75	-18.37	-11.09	-5.81	-3.38	-1.92	-0.03	0.60	-0.74	-3.88	-5.54	-6.22	-10.80	-27.10
90	-19.85	-11.14	-5.96	-3.58	-2.19	-0.23	0.51	-0.77	-3.89	-5.58	-6.09	-10.36	-23.56
105	-21.69	-11.03	-5.94	-3.70	-2.42	-0.38	0.44	-0.79	-3.85	-5.47	-5.80	-9.67	-20.27
120	-22.97	-10.79	-5.86	-3.78	-2.55	-0.46	0.45	-0.73	-3.77	-5.18	-5.33	-8.78	-17.35
135	-23.77	-10.48	-5.72	-3.74	-2.59	-0.44	0.54	-0.62	-3.66	-4.89	-4.87	-7.92	-15.35
150	-24.28	-10.30	-5.62	-3.69	-2.58	-0.36	0.67	-0.49	-3.48	-4.56	-4.39	-7.15	-13.81
165	-25.15	-10.25	-5.59	-3.76	-2.64	-0.30	0.79	-0.34	-3.32	-4.29	-3.97	-6.53	-12.69
180	-26.33	-10.33	-5.69	-3.89	-2.75	-0.26	0.87	-0.24	-3.16	-4.08	-3.67	-6.06	-12.01
195	-28.59	-10.62	-5.89	-4.12	-2.94	-0.31	0.92	-0.16	-3.08	-3.92	-3.48	-5.78	-11.77
210	-31.08	-11.04	-6.24	-4.49	-3.21	-0.42	0.88	-0.16	-3.04	-3.88	-3.41	-5.70	-11.78
225	-30.95	-11.57	-6.61	-4.84	-3.50	-0.54	0.84	-0.27	-3.12	-3.91	-3.49	-5.77	-12.12
240	-27.88	-12.03	-7.02	-5.23	-3.80	-0.69	0.68	-0.41	-3.28	-4.03	-3.60	-5.99	-12.77
255	-24.82	-12.27	-7.25	-5.47	-3.94	-0.81	0.50	-0.62	-3.50	-4.20	-3.76	-6.28	-13.69
270	-22.20	-12.31	-7.35	-5.58	-3.94	-0.81	0.40	-0.81	-3.70	-4.32	-3.93	-6.60	-14.90
285	-20.32	-12.06	-7.23	-5.44	-3.72	-0.71	0.38	-0.95	-3.81	-4.33	-4.05	-6.87	-16.25
300	-18.88	-11.65	-6.94	-5.12	-3.40	-0.53	0.43	-0.96	-3.81	-4.28	-4.11	-7.18	-17.90
315	-17.71	-11.24	-6.56	-4.67	-2.95	-0.30	0.53	-0.92	-3.70	-4.20	-4.18	-7.49	-19.68
330	-16.79	-10.81	-6.18	-4.19	-2.50	-0.08	0.64	-0.87	-3.57	-4.17	-4.33	-7.86	-21.91
345	-16.38	-10.57	-5.81	-3.73	-2.15	0.10	0.72	-0.68	-3.48	-4.25	-4.54	-8.40	-24.70
360	-16.03	-10.38	-5.55	-3.28	-1.75	0.24	0.81	-0.62	-3.43	-4.42	-4.91	-9.04	-28.88
Avg.	-19.76	-11.16	-6.25	-4.18	-2.76	-0.42	0.48	-0.78	-3.71	-4.71	-4.71	-7.83	-16.13
Peak Value	0.921	Minimum Value -31.643											

Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.08	-14.98	-18.16	-31.21	-18.76	-13.67	-14.39	-18.35	-16.81	-14.90	-16.66	-18.78	-18.07
15	-13.00	-14.06	-16.74	-22.21	-19.10	-15.52	-17.10	-20.45	-15.77	-14.23	-16.56	-20.25	-20.28
30	-11.54	-12.76	-14.63	-17.00	-17.91	-17.40	-20.64	-18.91	-14.25	-13.35	-16.43	-22.04	-23.29
45	-10.39	-11.20	-12.58	-14.18	-15.48	-17.28	-19.88	-15.66	-12.63	-12.65	-16.31	-23.28	-27.44
60	-9.51	-10.03	-10.93	-11.94	-13.38	-15.48	-15.57	-12.79	-11.19	-12.08	-15.90	-23.35	-28.22
75	-8.80	-9.18	-9.72	-10.50	-11.89	-13.57	-12.68	-10.64	-10.08	-11.55	-15.65	-21.41	-24.95
90	-8.32	-8.57	-8.87	-9.66	-10.98	-12.07	-10.77	-9.24	-9.16	-11.18	-15.39	-20.08	-22.61
105	-8.16	-8.30	-8.55	-9.25	-10.74	-11.48	-9.89	-8.40	-8.68	-10.92	-15.15	-19.01	-20.91
120	-8.32	-8.42	-8.59	-9.46	-11.13	-11.79	-9.63	-8.19	-8.55	-10.99	-15.13	-18.63	-20.56
135	-8.70	-8.79	-9.00	-10.11	-12.27	-12.86	-10.20	-8.73	-8.88	-11.35	-15.59	-18.99	-20.99
150	-9.42	-9.45	-9.74	-11.03	-14.01	-15.02	-11.45	-9.45	-9.66	-12.16	-16.77	-20.26	-22.50
165	-10.27	-10.26	-10.63	-12.36	-16.09	-18.79	-13.59	-10.52	-11.07	-13.64	-19.01	-22.70	-24.41
180	-11.44	-11.16	-11.59	-13.53	-18.04	-26.33	-17.40	-13.96	-13.26	-16.10	-24.28	-24.91	-24.13
195	-12.72	-12.37	-12.68	-14.83	-18.98	-28.93	-23.43	-18.52	-16.53	-19.50	-36.44	-23.68	-21.27
210	-14.06	-13.55	-14.06	-16.33	-18.68	-19.88	-23.15	-28.26	-22.61	-22.42	-25.76	-20.03	-18.37
225	-15.49	-14.69	-15.48	-18.39	-17.92	-15.84	-17.15	-23.54	-24.73	-20.36	-19.51	-17.08	-16.05
240	-16.36	-15.77	-17.03	-21.86	-17.24	-13.14	-13.25	-16.70	-19.02	-16.87	-16.19	-15.15	-14.47
255	-16.78	-16.22	-18.15	-27.61	-16.62	-11.51	-10.88	-13.12	-15.23	-14.60	-14.43	-13.95	-13.54
270	-16.83	-16.13	-18.56	-41.69	-15.63	-10.20	-9.40	-11.28	-13.50	-13.52	-13.58	-13.40	-13.03
285	-16.68	-16.01	-18.19	-28.05	-14.96	-9.55	-8.69	-10.48	-12.88	-13.29	-13.50	-13.40	-12.94
300	-16.59	-15.74	-17.68	-23.94	-14.43	-9.40	-8.61	-10.55	-13.24	-13.71	-13.93	-13.95	-13.25
315	-16.39	-15.71	-17.54	-23.13	-14.68	-9.73	-9.09	-11.48	-14.28	-14.47	-14.79	-14.76	-13.97
330	-16.04	-15.79	-17.94	-24.71	-15.42	-10.59	-10.19	-13.02	-15.77	-15.34	-15.75	-15.92	-14.97
345	-15.30	-15.68	-18.49	-30.35	-16.74	-11.77	-11.76	-15.31	-16.92	-15.51	-16.34	-17.21	-16.21
360	-14.08	-14.98	-18.16	-31.21	-18.76	-13.67	-14.39	-18.35	-16.81	-14.90	-16.66	-18.78	-18.07
Avg.	-11.77	-11.91	-12.64	-14.29	-14.82	-13.13	-12.18	-12.26	-12.60	-13.77	-16.32	-17.68	-17.45
Peak Value	-8.161		Minimum Value -41.687										

RHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.75	-19.14	-10.72	-6.42	-3.89	-2.41	-2.49	-3.67	-5.78	-7.78	-9.64	-15.43	-22.17
15	-13.44	-18.19	-10.54	-6.12	-3.54	-2.07	-2.10	-3.14	-5.20	-7.34	-9.51	-15.35	-23.03
30	-12.14	-17.27	-10.59	-6.03	-3.35	-1.81	-1.73	-2.65	-4.61	-6.83	-9.15	-14.92	-25.08
45	-11.33	-16.50	-10.80	-6.13	-3.33	-1.68	-1.44	-2.29	-4.09	-6.33	-8.78	-14.18	-27.13
60	-10.85	-15.96	-11.35	-6.53	-3.57	-1.67	-1.36	-2.04	-3.70	-5.86	-8.22	-13.29	-28.04
75	-10.58	-15.89	-12.16	-7.18	-4.01	-1.99	-1.42	-1.97	-3.49	-5.44	-7.66	-12.09	-25.19
90	-10.68	-16.35	-13.38	-8.07	-4.71	-2.43	-1.65	-2.05	-3.34	-5.11	-7.07	-11.07	-21.78
105	-11.03	-17.27	-14.60	-9.03	-5.48	-2.95	-2.03	-2.26	-3.35	-4.82	-6.53	-10.15	-19.00
120	-11.71	-18.98	-15.73	-9.79	-6.16	-3.51	-2.43	-2.55	-3.44	-4.61	-6.02	-9.37	-17.06
135	-12.51	-21.15	-15.89	-9.97	-6.42	-3.85	-2.78	-2.95	-3.64	-4.52	-5.71	-8.83	-15.94
150	-13.64	-23.66	-15.32	-9.67	-6.32	-3.88	-2.94	-3.11	-3.86	-4.55	-5.55	-8.55	-15.44
165	-14.68	-26.00	-14.50	-9.18	-6.00	-3.67	-2.91	-3.19	-4.13	-4.75	-5.57	-8.57	-15.63
180	-15.98	-26.09	-13.85	-8.71	-5.60	-3.31	-2.76	-3.33	-4.43	-5.15	-5.92	-8.84	-16.41
195	-17.10	-25.66	-13.32	-8.40	-5.24	-3.02	-2.56	-3.32	-4.78	-5.66	-6.37	-9.33	-17.92
210	-18.14	-24.97	-13.04	-8.31	-5.05	-2.82	-2.45	-3.38	-5.23	-6.37	-7.06	-10.20	-20.15
225	-19.28	-24.78	-13.06	-8.31	-5.03	-2.74	-2.35	-3.55	-5.76	-7.23	-7.96	-11.23	-23.90
240	-20.04	-24.15	-13.15	-8.42	-5.15	-2.87	-2.60	-3.87	-6.44	-8.25	-8.90	-12.41	-30.48
255	-21.01	-23.63	-13.17	-8.62	-5.33	-3.08	-2.93	-4.28	-7.24	-9.40	-9.77	-13.46	-43.29
270	-21.87	-23.30	-13.08	-8.72	-5.55	-3.38	-3.31	-4.85	-8.07	-10.25	-10.40	-14.22	-30.33
285	-22.26	-22.64	-12.85	-8.69	-5.67	-3.61	-3.66	-5.33	-8.65	-10.60	-10.61	-14.61	-25.79
300	-22.02	-22.11	-12.49	-8.51	-5.65	-3.71	-3.85	-5.57	-8.76	-10.37	-10.50	-14.79	-23.49
315	-20.45	-21.72	-12.09	-8.10	-5.40	-3.61	-3.80	-5.43	-8.34	-9.80	-10.22	-14.89	-22.64
330	-18.54	-21.00	-11.62	-7.61	-4.98	-3.32	-3.49	-5.05	-7.56	-9.03	-9.97	-14.99	-22.25
345	-16.64	-20.28	-11.12	-7.03	-4.49	-2.89	-3.08	-4.30	-6.74	-8.41	-9.79	-15.28	-22.04
360	-14.75	-19.14	-10.72	-6.42	-3.89	-2.41	-2.49	-3.67	-5.78	-7.78	-9.64	-15.43	-22.17
Avg.	-14.43	-20.02	-12.76	-8.08	-5.07	-3.05	-2.70	-3.55	-5.28	-6.76	-8.03	-11.79	-20.55
Peak Value	-1.357		Minimum Value -43.286										

LHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-15.15	-9.54	-6.79	-6.16	-5.62	-2.80	-1.70	-3.45	-6.77	-6.44	-6.28	-9.62	-19.65
15	-15.12	-9.41	-6.59	-5.94	-5.79	-3.19	-2.14	-4.04	-7.63	-7.06	-6.81	-10.53	-22.85
30	-14.67	-9.14	-6.31	-5.60	-5.81	-3.64	-2.65	-4.71	-8.77	-7.97	-7.54	-11.67	-26.44
45	-13.96	-8.62	-5.94	-5.30	-5.72	-4.00	-3.05	-5.26	-10.18	-9.05	-8.37	-12.90	-31.47
60	-13.15	-8.11	-5.53	-4.89	-5.45	-4.04	-3.29	-5.51	-11.60	-10.47	-9.30	-14.12	-29.98
75	-12.30	-7.63	-5.11	-4.48	-5.07	-3.93	-3.18	-5.32	-12.22	-11.97	-10.26	-15.43	-26.73
90	-11.42	-7.15	-4.72	-4.08	-4.61	-3.59	-2.81	-4.78	-11.78	-13.53	-11.04	-16.25	-24.89
105	-10.93	-6.82	-4.45	-3.76	-4.26	-3.18	-2.34	-4.15	-10.69	-14.53	-11.50	-16.20	-23.10
120	-10.73	-6.68	-4.30	-3.69	-4.08	-2.84	-1.90	-3.55	-9.74	-14.32	-11.31	-15.16	-21.26
135	-10.81	-6.70	-4.34	-3.77	-4.17	-2.64	-1.55	-3.06	-8.94	-13.50	-10.71	-13.66	-19.32
150	-11.26	-6.93	-4.55	-3.99	-4.46	-2.66	-1.36	-2.85	-8.36	-12.26	-9.73	-12.04	-17.29
165	-12.00	-7.30	-4.85	-4.46	-4.97	-2.87	-1.37	-2.73	-8.03	-10.92	-8.65	-10.53	-15.22
180	-13.10	-7.78	-5.26	-4.97	-5.66	-3.21	-1.48	-2.83	-7.71	-9.59	-7.51	-9.19	-13.58
195	-14.52	-8.48	-5.77	-5.60	-6.53	-3.63	-1.63	-2.91	-7.40	-8.39	-6.61	-8.20	-12.37
210	-16.07	-9.22	-6.44	-6.36	-7.50	-4.01	-1.80	-2.96	-6.95	-7.35	-5.82	-7.37	-11.47
225	-17.64	-9.99	-7.05	-7.10	-8.29	-4.24	-1.87	-2.98	-6.47	-6.45	-5.24	-6.80	-10.85
240	-18.28	-10.69	-7.70	-7.89	-8.83	-4.15	-1.76	-2.84	-5.93	-5.74	-4.79	-6.48	-10.57
255	-17.87	-11.03	-8.08	-8.28	-8.78	-3.88	-1.58	-2.66	-5.40	-5.23	-4.54	-6.37	-10.61
270	-16.93	-11.05	-8.27	-8.46	-8.17	-3.32	-1.27	-2.39	-5.02	-4.95	-4.47	-6.45	-10.90
285	-16.05	-10.87	-8.16	-8.18	-7.33	-2.80	-1.00	-2.22	-4.81	-4.83	-4.54	-6.64	-11.44
300	-15.44	-10.51	-7.88	-7.69	-6.56	-2.41	-0.81	-2.13	-4.81	-4.89	-4.70	-7.02	-12.29
315	-15.10	-10.21	-7.53	-7.19	-5.98	-2.18	-0.77	-2.26	-4.98	-5.06	-4.95	-7.47	-13.43
330	-14.97	-9.94	-7.25	-6.76	-5.64	-2.19	-0.93	-2.56	-5.36	-5.42	-5.30	-8.02	-14.91
345	-15.11	-9.77	-7.01	-6.46	-5.59	-2.39	-1.23	-2.89	-5.90	-5.85	-5.68	-8.73	-16.76
360	-15.15	-9.54	-6.79	-6.16	-5.62	-2.80	-1.70	-3.45	-6.77	-6.44	-6.28	-9.62	-19.65
Avg.	-13.87	-8.83	-6.23	-5.79	-6.00	-3.37	-1.93	-3.44	-7.36	-7.72	-6.90	-9.37	-14.74
Peak Value	-0.775	Minimum Value -31.466											

AR													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	32.79	5.97	13.04	36.34	20.07	33.02	26.84	37.65	24.92	22.30	14.37	9.83	16.82
15	20.33	6.63	13.00	39.60	17.80	23.81	52.71	25.70	17.14	35.66	16.23	11.35	39.56
30	16.80	7.20	12.34	32.21	17.03	19.57	25.52	18.55	12.57	23.65	20.66	14.65	22.16
45	16.45	7.44	11.29	26.37	17.26	17.53	20.72	15.42	9.45	16.17	32.58	22.69	12.22
60	17.60	7.46	9.81	20.55	19.32	17.33	19.13	14.10	7.42	11.72	24.15	26.41	19.05
75	20.14	7.08	8.30	16.22	24.30	19.09	19.90	14.39	6.66	8.89	16.55	14.42	21.09
90	27.36	6.29	6.72	12.91	44.27	23.53	23.47	16.15	6.92	6.94	12.95	10.76	15.04
105	44.60	5.38	5.58	10.62	23.06	37.54	35.15	19.31	7.98	5.90	11.09	9.51	12.68
120	24.99	4.30	4.78	9.45	18.50	28.19	30.19	24.79	9.18	5.90	10.60	9.86	12.49
135	20.22	3.33	4.71	9.31	17.79	23.17	23.03	43.93	10.58	6.46	11.05	11.33	14.32
150	17.31	2.55	5.18	10.01	19.43	23.08	20.85	36.57	11.94	7.60	12.53	14.06	19.49
165	16.33	2.03	5.95	11.53	24.51	26.67	21.05	31.66	13.12	9.35	15.11	18.96	32.61
180	15.71	2.12	6.79	13.47	48.94	44.53	22.69	30.75	14.59	12.05	20.74	33.92	15.83
195	16.63	2.42	7.77	15.92	22.58	29.08	25.42	32.57	16.50	16.13	36.99	23.75	10.21
210	18.52	2.86	8.81	19.03	17.07	23.30	28.55	32.28	20.12	24.97	22.94	15.84	6.71
225	20.54	3.20	9.55	23.14	14.63	21.31	31.21	29.69	27.90	26.88	16.18	12.06	3.94
240	19.87	3.74	10.35	30.21	13.61	22.63	26.37	24.58	30.73	16.87	12.68	9.66	1.76
255	14.97	4.15	10.91	34.12	14.17	26.67	22.24	20.62	19.52	12.57	10.68	8.25	0.40
270	11.16	4.33	11.38	36.48	16.50	49.48	18.65	17.05	15.19	10.58	9.66	7.54	1.86
285	9.29	4.59	11.58	30.70	20.41	26.64	16.36	15.02	13.23	9.88	9.47	7.34	3.37
300	8.83	4.68	11.72	26.52	25.65	22.55	15.23	14.16	13.01	10.30	9.84	7.54	4.91
315	10.50	4.73	11.83	25.61	29.55	21.73	15.27	14.85	14.39	11.50	10.61	7.90	6.27
330	13.88	4.99	12.18	26.24	28.43	23.79	16.69	16.94	18.00	13.77	11.62	8.38	7.98
345	21.15	5.34	12.69	29.67	23.97	30.75	19.50	21.87	26.27	16.70	12.69	8.87	10.62
360	32.79	5.97	13.04	36.34	20.07	33.02	26.84	37.65	24.92	22.30	14.37	9.83	16.82
Avg.	31.17	4.85	10.04	30.42	36.40	37.19	38.94	32.44	20.96	23.20	24.98	21.66	26.65
Peak Value	####	Minimum Value 0.404											

511.1 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-12.10	-9.39	-5.59	-3.55	-1.98	0.12	0.68	-0.78	-3.44	-4.27	-4.81	-8.76	-17.91
15	-11.29	-9.12	-5.40	-3.28	-1.81	0.12	0.63	-0.79	-3.43	-4.38	-5.13	-9.43	-20.30
30	-10.39	-8.75	-5.17	-3.05	-1.67	0.10	0.58	-0.77	-3.39	-4.54	-5.47	-10.14	-23.30
45	-9.58	-8.21	-4.97	-2.93	-1.64	0.04	0.57	-0.73	-3.33	-4.65	-5.75	-10.63	-26.69
60	-8.97	-7.70	-4.77	-2.87	-1.68	0.03	0.54	-0.64	-3.22	-4.75	-5.89	-10.74	-26.41
75	-8.47	-7.23	-4.57	-2.85	-1.79	-0.12	0.54	-0.54	-3.12	-4.78	-5.93	-10.55	-23.18
90	-8.16	-6.86	-4.41	-2.87	-1.95	-0.24	0.56	-0.42	-2.95	-4.70	-5.78	-10.03	-20.08
105	-8.10	-6.65	-4.28	-2.91	-2.13	-0.36	0.58	-0.32	-2.83	-4.57	-5.50	-9.33	-17.66
120	-8.32	-6.62	-4.26	-3.00	-2.31	-0.45	0.60	-0.24	-2.73	-4.38	-5.10	-8.49	-15.74
135	-8.72	-6.78	-4.29	-3.10	-2.49	-0.51	0.62	-0.24	-2.73	-4.20	-4.71	-7.79	-14.39
150	-9.43	-7.06	-4.46	-3.25	-2.65	-0.54	0.66	-0.21	-2.75	-4.10	-4.35	-7.12	-13.45
165	-10.35	-7.49	-4.71	-3.49	-2.81	-0.57	0.67	-0.18	-2.88	-4.04	-4.08	-6.62	-12.67
180	-11.50	-8.00	-4.99	-3.76	-3.00	-0.60	0.67	-0.28	-2.98	-4.05	-3.87	-6.24	-12.05
195	-12.77	-8.68	-5.40	-4.12	-3.23	-0.64	0.67	-0.32	-3.11	-4.06	-3.73	-5.95	-11.50
210	-14.10	-9.49	-5.91	-4.54	-3.49	-0.71	0.65	-0.38	-3.22	-4.08	-3.63	-5.79	-11.16
225	-15.39	-10.19	-6.42	-4.98	-3.75	-0.75	0.65	-0.46	-3.30	-4.06	-3.60	-5.74	-10.88
240	-16.20	-10.83	-6.91	-5.47	-4.00	-0.77	0.60	-0.53	-3.37	-4.06	-3.63	-5.74	-10.75
255	-16.21	-11.11	-7.26	-5.80	-4.10	-0.77	0.57	-0.58	-3.42	-4.09	-3.66	-5.82	-10.78
270	-15.83	-11.14	-7.33	-5.91	-4.03	-0.63	0.60	-0.65	-3.49	-4.07	-3.75	-6.00	-11.05
285	-15.20	-10.87	-7.16	-5.74	-3.77	-0.47	0.66	-0.69	-3.52	-4.06	-3.82	-6.22	-11.45
300	-14.65	-10.47	-6.86	-5.36	-3.41	-0.28	0.71	-0.73	-3.55	-4.06	-3.92	-6.53	-12.15
315	-14.17	-10.15	-6.47	-4.90	-3.00	-0.12	0.72	-0.77	-3.56	-4.05	-4.04	-6.94	-13.13
330	-13.62	-9.91	-6.13	-4.41	-2.62	0.01	0.73	-0.83	-3.54	-4.10	-4.25	-7.42	-14.31
345	-12.96	-9.67	-5.83	-4.00	-2.30	0.09	0.70	-0.75	-3.51	-4.14	-4.50	-8.02	-15.83
360	-12.10	-9.39	-5.59	-3.55	-1.98	0.12	0.68	-0.78	-3.44	-4.27	-4.81	-8.76	-17.91
Avg.	-11.27	-8.76	-5.63	-4.06	-2.84	-0.50	0.46	-0.71	-3.39	-4.43	-4.64	-7.60	-13.93
Peak Value		0.731		Minimum Value		-26.692							

Horizontal													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.39	-10.73	-5.82	-3.56	-2.06	-0.06	0.55	-0.85	-3.64	-4.64	-5.07	-9.15	-28.08
15	-16.26	-10.74	-5.72	-3.33	-1.88	0.01	0.57	-0.84	-3.69	-4.83	-5.42	-9.75	-31.38
30	-16.52	-10.87	-5.69	-3.23	-1.78	0.02	0.55	-0.84	-3.76	-5.14	-5.80	-10.39	-32.66
45	-16.99	-11.11	-5.76	-3.27	-1.83	-0.05	0.53	-0.87	-3.86	-5.39	-6.13	-10.84	-33.26
60	-17.88	-11.32	-5.93	-3.43	-1.98	-0.09	0.44	-0.90	-3.97	-5.64	-6.32	-11.00	-31.22
75	-19.06	-11.46	-6.10	-3.65	-2.23	-0.32	0.33	-0.96	-4.08	-5.79	-6.41	-10.91	-28.19
90	-20.51	-11.49	-6.23	-3.86	-2.51	-0.53	0.25	-1.00	-4.10	-5.79	-6.28	-10.48	-23.88
105	-22.31	-11.34	-6.23	-4.01	-2.75	-0.69	0.19	-1.01	-4.09	-5.70	-6.01	-9.82	-20.38
120	-23.80	-11.08	-6.16	-4.07	-2.88	-0.77	0.20	-0.95	-3.99	-5.44	-5.55	-8.92	-17.44
135	-24.82	-10.83	-6.00	-4.02	-2.94	-0.76	0.27	-0.85	-3.88	-5.13	-5.08	-8.13	-15.44
150	-25.45	-10.64	-5.92	-4.01	-2.96	-0.68	0.40	-0.72	-3.70	-4.82	-4.60	-7.33	-14.02
165	-26.14	-10.58	-5.92	-4.07	-3.00	-0.62	0.53	-0.57	-3.56	-4.54	-4.22	-6.72	-12.94
180	-27.72	-10.69	-6.00	-4.21	-3.13	-0.61	0.62	-0.45	-3.39	-4.33	-3.92	-6.29	-12.31
195	-29.94	-10.99	-6.23	-4.48	-3.34	-0.64	0.66	-0.37	-3.29	-4.19	-3.73	-6.02	-11.96
210	-33.45	-11.50	-6.57	-4.81	-3.62	-0.76	0.63	-0.38	-3.27	-4.14	-3.66	-5.94	-12.04
225	-33.12	-11.99	-6.96	-5.16	-3.91	-0.89	0.57	-0.48	-3.33	-4.16	-3.71	-6.05	-12.41
240	-28.72	-12.48	-7.33	-5.56	-4.21	-1.03	0.41	-0.65	-3.49	-4.29	-3.87	-6.25	-13.04
255	-25.27	-12.69	-7.61	-5.82	-4.35	-1.15	0.24	-0.83	-3.71	-4.47	-4.02	-6.52	-13.95
270	-22.75	-12.73	-7.66	-5.91	-4.33	-1.14	0.15	-1.04	-3.94	-4.56	-4.20	-6.84	-15.18
285	-20.82	-12.48	-7.52	-5.77	-4.10	-1.03	0.12	-1.16	-4.04	-4.59	-4.28	-7.09	-16.43
300	-19.30	-11.98	-7.23	-5.42	-3.75	-0.83	0.18	-1.19	-4.02	-4.52	-4.34	-7.36	-17.94
315	-18.11	-11.53	-6.82	-4.96	-3.29	-0.60	0.27	-1.14	-3.91	-4.43	-4.38	-7.68	-19.62
330	-17.23	-11.18	-6.42	-4.45	-2.83	-0.37	0.38	-1.09	-3.79	-4.40	-4.53	-8.04	-21.68
345	-16.75	-10.88	-6.06	-4.01	-2.45	-0.19	0.47	-0.90	-3.69	-4.44	-4.75	-8.52	-24.33
360	-16.39	-10.73	-5.82	-3.56	-2.06	-0.06	0.55	-0.85	-3.64	-4.64	-5.07	-9.15	-28.08
Avg.	-20.29	-11.52	-6.55	-4.48	-3.11	-0.74	0.22	-1.01	-3.93	-4.95	-4.93	-8.03	-16.35
Peak Value		0.659		Minimum Value		-33.452							

Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.13	-15.12	-18.41	-31.13	-18.96	-13.85	-14.51	-18.57	-16.94	-15.21	-17.23	-19.37	-18.35
15	-12.95	-14.19	-16.86	-22.21	-19.43	-15.71	-17.46	-20.45	-15.82	-14.42	-16.95	-20.93	-20.65
30	-11.60	-12.87	-14.70	-17.05	-17.86	-17.45	-20.69	-18.74	-14.25	-13.48	-16.79	-22.54	-23.83
45	-10.45	-11.32	-12.74	-14.21	-15.43	-17.22	-19.73	-15.75	-12.71	-12.75	-16.48	-23.76	-27.77
60	-9.57	-10.18	-11.06	-12.07	-13.39	-15.47	-15.59	-12.98	-11.19	-12.08	-16.08	-23.13	-28.16
75	-8.87	-9.28	-9.85	-10.60	-11.96	-13.55	-12.79	-10.83	-10.13	-11.61	-15.74	-21.56	-24.83
90	-8.42	-8.69	-9.04	-9.76	-11.09	-12.14	-11.00	-9.43	-9.28	-11.21	-15.36	-20.02	-22.43
105	-8.27	-8.45	-8.69	-9.40	-10.86	-11.67	-10.06	-8.66	-8.82	-10.99	-15.03	-19.04	-20.99
120	-8.45	-8.54	-8.78	-9.62	-11.39	-11.94	-9.92	-8.46	-8.71	-11.03	-15.17	-18.73	-20.65
135	-8.83	-8.96	-9.17	-10.28	-12.52	-13.14	-10.54	-9.05	-9.05	-11.35	-15.56	-19.04	-21.05
150	-9.54	-9.56	-9.92	-11.21	-14.19	-15.33	-11.79	-9.80	-9.85	-12.21	-16.79	-20.43	-22.60
165	-10.47	-10.43	-10.82	-12.56	-16.37	-19.39	-14.14	-10.88	-11.27	-13.70	-19.14	-22.96	-24.96
180	-11.60	-11.35	-11.81	-13.80	-18.21	-27.31	-18.09	-14.49	-13.47	-16.13	-24.07	-25.41	-24.45
195	-12.85	-12.54	-12.97	-15.13	-19.11	-27.68	-24.55	-19.38	-16.88	-19.52	-35.37	-24.04	-21.45
210	-14.15	-13.80	-14.40	-16.70	-18.77	-19.48	-22.60	-30.67	-22.94	-22.41	-25.92	-20.37	-18.51
225	-15.47	-14.89	-15.79	-18.94	-18.11	-15.69	-16.74	-22.93	-24.20	-20.48	-19.57	-17.30	-16.17
240	-16.45	-15.84	-17.30	-22.32	-17.37	-13.11	-13.13	-16.43	-18.76	-16.94	-16.42	-15.26	-14.64
255	-16.78	-16.26	-18.31	-29.07	-16.74	-11.50	-10.83	-13.06	-15.23	-14.82	-14.65	-14.10	-13.65
270	-16.82	-16.28	-18.62	-39.18	-15.78	-10.18	-9.39	-11.31	-13.56	-13.71	-13.85	-13.55	-13.16
285	-16.59	-15.94	-18.14	-27.40	-15.10	-9.62	-8.69	-10.55	-13.00	-13.52	-13.82	-13.60	-13.11
300	-16.48	-15.78	-17.68	-23.70	-14.73	-9.49	-8.66	-10.70	-13.44	-14.02	-14.34	-14.12	-13.47
315	-16.41	-15.80	-17.52	-23.00	-14.94	-9.87	-9.27	-11.69	-14.65	-14.84	-15.26	-15.00	-14.23
330	-16.11	-15.85	-18.05	-25.09	-15.80	-10.78	-10.39	-13.30	-16.06	-15.76	-16.19	-16.24	-15.19
345	-15.31	-15.79	-18.66	-30.82	-17.10	-11.99	-12.01	-15.55	-17.23	-15.88	-16.92	-17.62	-16.49
360	-14.13	-15.12	-18.41	-31.13	-18.96	-13.85	-14.51	-18.57	-16.94	-15.21	-17.23	-19.37	-18.35
Avg.	-11.86	-12.04	-12.81	-14.45	-14.99	-13.23	-12.33	-12.47	-12.73	-13.89	-16.54	-17.89	-17.63
Peak Value	-8.272		Minimum Value -39.176										

RHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.95	-19.98	-11.03	-6.72	-4.17	-2.66	-2.72	-3.85	-5.95	-7.94	-9.71	-15.34	-22.88
15	-13.52	-18.87	-10.92	-6.40	-3.82	-2.30	-2.32	-3.33	-5.34	-7.45	-9.56	-15.25	-24.15
30	-12.36	-17.99	-10.92	-6.30	-3.61	-2.04	-1.95	-2.83	-4.75	-6.96	-9.30	-14.96	-26.27
45	-11.48	-17.01	-11.17	-6.43	-3.61	-1.93	-1.68	-2.49	-4.26	-6.47	-8.89	-14.24	-28.32
60	-11.00	-16.50	-11.78	-6.86	-3.86	-1.93	-1.59	-2.26	-3.84	-6.00	-8.31	-13.20	-28.46
75	-10.74	-16.37	-12.67	-7.57	-4.34	-2.25	-1.67	-2.19	-3.64	-5.62	-7.79	-12.19	-24.94
90	-10.77	-16.79	-13.94	-8.46	-5.07	-2.71	-1.92	-2.28	-3.52	-5.25	-7.19	-11.15	-21.56
105	-11.16	-17.76	-15.27	-9.51	-5.83	-3.26	-2.30	-2.49	-3.55	-4.99	-6.65	-10.27	-18.86
120	-11.81	-19.45	-16.44	-10.31	-6.55	-3.83	-2.70	-2.78	-3.64	-4.80	-6.20	-9.50	-17.02
135	-12.63	-21.83	-16.67	-10.43	-6.84	-4.16	-3.07	-3.21	-3.85	-4.69	-5.87	-8.99	-15.89
150	-13.67	-24.75	-16.03	-10.16	-6.76	-4.20	-3.23	-3.37	-4.06	-4.75	-5.73	-8.72	-15.54
165	-14.79	-27.77	-15.20	-9.65	-6.38	-3.98	-3.18	-3.43	-4.36	-4.95	-5.80	-8.74	-15.73
180	-16.00	-28.66	-14.41	-9.19	-5.96	-3.62	-3.01	-3.53	-4.65	-5.36	-6.12	-9.03	-16.69
195	-17.10	-27.74	-13.84	-8.86	-5.63	-3.30	-2.80	-3.55	-5.00	-5.90	-6.59	-9.59	-18.14
210	-17.96	-26.65	-13.52	-8.71	-5.42	-3.11	-2.67	-3.58	-5.44	-6.61	-7.31	-10.43	-20.52
225	-18.91	-25.89	-13.55	-8.70	-5.40	-3.03	-2.59	-3.73	-5.95	-7.48	-8.21	-11.54	-24.49
240	-19.84	-25.14	-13.56	-8.84	-5.51	-3.14	-2.84	-4.05	-6.60	-8.52	-9.19	-12.71	-31.33
255	-20.77	-24.23	-13.62	-9.00	-5.69	-3.35	-3.14	-4.45	-7.42	-9.66	-10.05	-13.71	-45.45
270	-21.64	-23.53	-13.42	-9.06	-5.90	-3.64	-3.54	-5.03	-8.25	-10.51	-10.66	-14.48	-29.77
285	-22.24	-23.15	-13.16	-9.05	-5.99	-3.87	-3.89	-5.50	-8.85	-10.89	-10.79	-14.73	-25.66
300	-21.93	-22.45	-12.81	-8.78	-5.97	-3.97	-4.08	-5.77	-8.95	-10.60	-10.63	-14.84	-23.71
315	-20.85	-22.11	-12.37	-8.39	-5.70	-3.87	-4.03	-5.62	-8.48	-10.01	-10.32	-14.93	-22.83
330	-18.81	-21.76	-11.85	-7.84	-5.27	-3.55	-3.70	-5.22	-7.73	-9.19	-10.11	-15.01	-22.52
345	-16.86	-20.96	-11.39	-7.29	-4.75	-3.13	-3.27	-4.46	-6.88	-8.53	-9.91	-15.23	-22.49
360	-14.95	-19.98	-11.03	-6.72	-4.17	-2.66	-2.72	-3.85	-5.95	-7.94	-9.71	-15.34	-22.88
Avg.	-14.54	-20.65	-13.18	-8.44	-5.40	-3.32	-2.95	-3.76	-5.46	-6.95	-8.20	-11.93	-20.71
Peak Value	-1.586		Minimum Value -45.449										

LHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-15.29	-9.78	-7.05	-6.41	-5.99	-3.14	-1.97	-3.72	-7.02	-6.72	-6.51	-9.84	-19.58
15	-15.24	-9.61	-6.83	-6.18	-6.10	-3.57	-2.44	-4.33	-7.90	-7.33	-7.07	-10.75	-22.60
30	-14.76	-9.30	-6.52	-5.84	-6.10	-4.00	-2.96	-4.99	-9.10	-8.24	-7.79	-11.87	-26.35
45	-14.09	-8.82	-6.16	-5.50	-6.02	-4.34	-3.36	-5.51	-10.48	-9.32	-8.64	-13.11	-31.74
60	-13.25	-8.31	-5.73	-5.08	-5.73	-4.35	-3.57	-5.71	-11.95	-10.79	-9.58	-14.38	-30.67
75	-12.38	-7.79	-5.30	-4.65	-5.33	-4.24	-3.44	-5.54	-12.54	-12.32	-10.52	-15.57	-27.96
90	-11.60	-7.32	-4.92	-4.27	-4.85	-3.88	-3.06	-5.00	-12.06	-13.91	-11.34	-16.45	-25.50
105	-11.07	-7.00	-4.64	-3.98	-4.54	-3.48	-2.57	-4.38	-10.99	-14.92	-11.83	-16.41	-23.83
120	-10.90	-6.85	-4.53	-3.90	-4.36	-3.13	-2.14	-3.78	-9.97	-14.80	-11.61	-15.32	-21.67
135	-10.99	-6.92	-4.55	-3.98	-4.47	-2.96	-1.81	-3.29	-9.16	-13.96	-11.00	-13.94	-19.72
150	-11.48	-7.13	-4.78	-4.24	-4.78	-2.98	-1.63	-3.09	-8.60	-12.67	-10.01	-12.24	-17.64
165	-12.29	-7.54	-5.11	-4.70	-5.32	-3.21	-1.63	-2.97	-8.26	-11.27	-8.93	-10.76	-15.64
180	-13.40	-8.03	-5.52	-5.23	-6.06	-3.60	-1.75	-3.07	-7.95	-9.90	-7.81	-9.47	-13.88
195	-14.77	-8.74	-6.07	-5.89	-6.95	-4.02	-1.92	-3.13	-7.63	-8.68	-6.89	-8.41	-12.56
210	-16.40	-9.58	-6.73	-6.63	-7.94	-4.42	-2.08	-3.21	-7.19	-7.62	-6.07	-7.61	-11.69
225	-17.94	-10.31	-7.36	-7.38	-8.74	-4.64	-2.13	-3.22	-6.70	-6.70	-5.44	-7.07	-11.08
240	-18.66	-11.00	-7.97	-8.16	-9.32	-4.54	-2.03	-3.09	-6.16	-5.99	-5.05	-6.71	-10.79
255	-18.07	-11.33	-8.40	-8.62	-9.23	-4.25	-1.84	-2.87	-5.62	-5.50	-4.79	-6.59	-10.79
270	-17.15	-11.40	-8.55	-8.78	-8.59	-3.64	-1.51	-2.62	-5.26	-5.18	-4.74	-6.66	-11.10
285	-16.16	-11.13	-8.42	-8.47	-7.74	-3.12	-1.22	-2.43	-5.03	-5.08	-4.80	-6.88	-11.62
300	-15.55	-10.75	-8.13	-7.99	-6.93	-2.69	-1.04	-2.36	-5.03	-5.15	-4.97	-7.23	-12.46
315	-15.21	-10.44	-7.76	-7.47	-6.35	-2.50	-1.05	-2.49	-5.25	-5.33	-5.21	-7.69	-13.62
330	-15.19	-10.20	-7.48	-7.04	-6.02	-2.52	-1.21	-2.80	-5.62	-5.71	-5.55	-8.25	-15.02
345	-15.23	-10.00	-7.25	-6.74	-5.96	-2.72	-1.52	-3.16	-6.18	-6.11	-5.97	-8.93	-16.89
360	-15.29	-9.78	-7.05	-6.41	-5.99	-3.14	-1.97	-3.72	-7.02	-6.72	-6.51	-9.84	-19.58
Avg.	-14.05	-9.05	-6.47	-6.03	-6.34	-3.71	-2.20	-3.68	-7.61	-8.00	-7.16	-9.60	-14.96
Peak Value		-1.040		Minimum Value		-31.739							

AR													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	34.30	5.55	12.95	35.00	19.65	31.28	27.32	42.99	24.18	23.07	14.79	10.27	14.51
15	20.10	6.24	12.72	38.28	17.69	22.74	43.07	24.79	16.70	42.84	16.93	11.93	21.02
30	17.27	6.70	12.11	31.55	16.91	19.00	24.77	18.14	12.21	22.63	21.22	15.09	46.06
45	16.53	7.14	11.04	25.42	17.21	17.21	20.30	15.28	9.29	15.76	36.84	23.79	14.23
60	17.80	7.15	9.51	19.82	19.40	17.19	18.88	14.17	7.22	11.39	22.77	23.35	17.97
75	20.55	6.80	7.95	15.57	24.88	18.85	19.87	14.39	6.53	8.70	16.14	14.31	15.29
90	26.52	6.08	6.42	12.51	38.11	23.44	23.67	16.18	6.83	6.73	12.59	10.58	13.02
105	45.03	5.18	5.27	10.22	22.64	37.98	36.14	19.32	7.88	5.74	10.77	9.39	11.10
120	25.61	4.15	4.51	9.03	18.02	27.94	29.70	24.86	9.14	5.68	10.40	9.82	11.64
135	20.52	3.16	4.39	9.00	17.33	23.21	22.81	46.50	10.55	6.23	10.83	11.14	13.27
150	18.05	2.30	4.88	9.67	18.91	23.05	20.73	35.97	11.86	7.39	12.34	13.98	18.41
165	16.88	1.70	5.63	11.14	24.26	27.12	21.03	31.53	13.12	9.16	15.00	18.75	46.19
180	16.55	1.62	6.54	12.99	45.48	58.13	22.78	31.44	14.52	11.85	20.30	31.96	15.91
195	17.48	1.96	7.54	15.44	22.39	27.74	25.87	32.35	16.47	15.97	35.31	23.34	10.16
210	20.99	2.45	8.59	18.48	16.84	22.42	29.37	33.47	19.99	24.69	22.92	15.89	6.58
225	25.07	2.92	9.32	22.41	14.42	20.72	31.64	30.59	27.24	26.90	16.04	11.98	3.77
240	23.33	3.45	10.14	28.20	13.33	21.93	26.61	25.12	31.98	16.79	12.62	9.58	1.64
255	16.23	4.00	10.70	33.12	13.93	25.65	22.53	20.82	19.72	12.58	10.64	8.22	0.32
270	11.94	4.39	11.27	35.97	16.28	94.22	18.68	17.21	15.38	10.53	9.67	7.50	2.03
285	9.46	4.45	11.49	29.66	19.99	27.30	16.35	15.15	13.30	9.82	9.59	7.47	3.50
300	9.09	4.63	11.59	26.86	25.19	22.70	15.23	14.27	13.08	10.34	10.04	7.70	4.88
315	10.08	4.64	11.73	25.56	28.60	22.08	15.39	15.00	14.70	11.60	10.88	8.09	6.28
330	13.77	4.70	12.17	26.69	27.33	24.48	16.93	17.18	18.36	14.08	11.82	8.62	7.81
345	20.59	5.06	12.62	29.95	23.14	32.44	19.98	22.54	27.93	17.16	13.05	9.19	10.12
360	34.30	5.55	12.95	35.00	19.65	31.28	27.32	42.99	24.18	23.07	14.79	10.27	14.51
Avg.	31.69	4.58	9.86	29.46	32.58	80.24	30.93	34.95	21.56	29.18	25.67	20.13	35.18
Peak Value		#####		Minimum Value		0.321							



512.4 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-12.26	-9.61	-5.79	-3.77	-2.27	-0.14	0.47	-0.97	-3.63	-4.45	-4.99	-8.87	-18.07
15	-11.49	-9.36	-5.61	-3.48	-2.07	-0.14	0.41	-0.97	-3.58	-4.56	-5.32	-9.58	-20.60
30	-10.57	-9.01	-5.39	-3.34	-1.94	-0.14	0.36	-0.95	-3.55	-4.69	-5.63	-10.25	-23.71
45	-9.72	-8.40	-5.19	-3.15	-1.90	-0.20	0.36	-0.91	-3.48	-4.82	-5.88	-10.69	-27.87
60	-9.09	-7.89	-4.97	-3.08	-1.93	-0.21	0.32	-0.85	-3.39	-4.91	-6.06	-10.82	-27.03
75	-8.56	-7.41	-4.78	-3.07	-2.05	-0.37	0.33	-0.73	-3.26	-4.91	-6.08	-10.61	-23.37
90	-8.29	-7.05	-4.57	-3.07	-2.22	-0.49	0.34	-0.61	-3.12	-4.88	-5.93	-10.11	-20.08
105	-8.27	-6.83	-4.48	-3.11	-2.39	-0.61	0.35	-0.51	-2.99	-4.74	-5.64	-9.42	-17.72
120	-8.42	-6.82	-4.44	-3.22	-2.60	-0.73	0.38	-0.44	-2.93	-4.56	-5.27	-8.63	-15.92
135	-8.87	-6.95	-4.53	-3.33	-2.79	-0.80	0.38	-0.44	-2.92	-4.40	-4.87	-7.91	-14.57
150	-9.56	-7.26	-4.67	-3.47	-2.97	-0.83	0.42	-0.39	-2.97	-4.30	-4.54	-7.30	-13.61
165	-10.49	-7.70	-4.94	-3.74	-3.15	-0.87	0.44	-0.38	-3.08	-4.24	-4.26	-6.85	-12.84
180	-11.64	-8.22	-5.23	-4.02	-3.34	-0.90	0.45	-0.48	-3.18	-4.28	-4.07	-6.46	-12.21
195	-12.94	-8.99	-5.66	-4.38	-3.59	-0.94	0.44	-0.51	-3.30	-4.28	-3.95	-6.16	-11.77
210	-14.30	-9.72	-6.17	-4.83	-3.84	-0.99	0.42	-0.57	-3.41	-4.28	-3.86	-6.00	-11.33
225	-15.52	-10.47	-6.68	-5.29	-4.11	-1.04	0.44	-0.63	-3.49	-4.30	-3.83	-5.95	-11.12
240	-16.21	-11.13	-7.17	-5.75	-4.35	-1.05	0.38	-0.70	-3.55	-4.30	-3.85	-5.97	-10.97
255	-16.26	-11.40	-7.50	-6.08	-4.47	-1.04	0.36	-0.76	-3.62	-4.29	-3.89	-6.02	-10.98
270	-15.82	-11.33	-7.56	-6.17	-4.38	-0.90	0.39	-0.82	-3.66	-4.31	-3.95	-6.21	-11.15
285	-15.28	-11.01	-7.37	-5.98	-4.10	-0.72	0.46	-0.88	-3.69	-4.27	-4.04	-6.41	-11.63
300	-14.73	-10.70	-7.05	-5.57	-3.71	-0.53	0.50	-0.90	-3.76	-4.29	-4.13	-6.72	-12.27
315	-14.28	-10.36	-6.68	-5.12	-3.30	-0.36	0.53	-0.96	-3.74	-4.27	-4.26	-7.08	-13.24
330	-13.78	-10.12	-6.35	-4.65	-2.92	-0.24	0.53	-1.04	-3.71	-4.28	-4.43	-7.58	-14.47
345	-13.15	-9.86	-6.05	-4.21	-2.59	-0.17	0.49	-0.95	-3.70	-4.34	-4.68	-8.18	-15.99
360	-12.26	-9.61	-5.79	-3.77	-2.27	-0.14	0.47	-0.97	-3.63	-4.45	-4.99	-8.87	-18.07
Avg.	-11.41	-8.98	-5.84	-4.30	-3.14	-0.77	0.24	-0.89	-3.57	-4.63	-4.83	-7.78	-14.11
Peak Value		0.527		Minimum Value -27.870									

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.79	-11.00	-6.03	-3.78	-2.35	-0.32	0.34	-1.04	-3.83	-4.80	-5.23	-9.24	-27.26
15	-16.76	-11.05	-5.94	-3.54	-2.15	-0.25	0.34	-1.02	-3.85	-5.01	-5.59	-9.87	-31.00
30	-17.01	-11.22	-5.92	-3.45	-2.06	-0.22	0.32	-1.03	-3.94	-5.29	-5.95	-10.46	-33.49
45	-17.42	-11.40	-6.00	-3.50	-2.10	-0.29	0.31	-1.06	-4.04	-5.58	-6.25	-10.89	-36.78
60	-18.25	-11.59	-6.18	-3.66	-2.25	-0.35	0.21	-1.12	-4.17	-5.82	-6.50	-11.08	-33.59
75	-19.41	-11.73	-6.35	-3.88	-2.52	-0.58	0.12	-1.16	-4.25	-5.96	-6.57	-10.98	-28.68
90	-21.26	-11.78	-6.44	-4.09	-2.81	-0.79	0.02	-1.19	-4.30	-6.02	-6.45	-10.57	-23.94
105	-23.20	-11.64	-6.46	-4.23	-3.04	-0.95	-0.05	-1.21	-4.29	-5.91	-6.16	-9.92	-20.59
120	-24.59	-11.38	-6.37	-4.31	-3.21	-1.05	-0.02	-1.14	-4.22	-5.66	-5.73	-9.08	-17.65
135	-25.77	-11.07	-6.25	-4.27	-3.26	-1.04	0.04	-1.04	-4.08	-5.37	-5.26	-8.26	-15.67
150	-26.61	-10.93	-6.16	-4.24	-3.29	-0.97	0.18	-0.88	-3.92	-5.05	-4.81	-7.51	-14.17
165	-27.40	-10.87	-6.17	-4.32	-3.35	-0.92	0.30	-0.75	-3.75	-4.77	-4.41	-6.95	-13.11
180	-28.98	-10.99	-6.26	-4.48	-3.48	-0.91	0.40	-0.63	-3.58	-4.57	-4.11	-6.51	-12.44
195	-32.52	-11.35	-6.51	-4.74	-3.71	-0.95	0.43	-0.55	-3.48	-4.42	-3.95	-6.22	-12.22
210	-36.89	-11.78	-6.86	-5.10	-3.98	-1.06	0.39	-0.58	-3.45	-4.35	-3.88	-6.16	-12.24
225	-35.03	-12.34	-7.22	-5.46	-4.28	-1.20	0.35	-0.66	-3.53	-4.41	-3.94	-6.28	-12.65
240	-29.25	-12.87	-7.58	-5.83	-4.57	-1.34	0.17	-0.82	-3.69	-4.54	-4.08	-6.49	-13.31
255	-25.80	-13.13	-7.88	-6.10	-4.73	-1.45	0.01	-1.03	-3.93	-4.68	-4.25	-6.74	-14.19
270	-23.18	-13.04	-7.92	-6.18	-4.70	-1.43	-0.09	-1.23	-4.12	-4.82	-4.39	-7.05	-15.38
285	-21.14	-12.71	-7.76	-6.02	-4.45	-1.31	-0.10	-1.36	-4.21	-4.78	-4.49	-7.28	-16.57
300	-19.58	-12.30	-7.45	-5.65	-4.06	-1.10	-0.04	-1.36	-4.22	-4.73	-4.53	-7.54	-17.94
315	-18.40	-11.82	-7.05	-5.19	-3.60	-0.85	0.06	-1.33	-4.09	-4.62	-4.59	-7.80	-19.54
330	-17.65	-11.44	-6.66	-4.68	-3.14	-0.62	0.17	-1.29	-3.95	-4.57	-4.69	-8.17	-21.44
345	-17.15	-11.13	-6.29	-4.22	-2.73	-0.44	0.25	-1.09	-3.88	-4.63	-4.91	-8.67	-23.93
360	-16.79	-11.00	-6.03	-3.78	-2.35	-0.32	0.34	-1.04	-3.83	-4.80	-5.23	-9.24	-27.26
Avg.	-20.77	-11.82	-6.79	-4.72	-3.42	-1.01	0.00	-1.19	-4.12	-5.16	-5.12	-8.20	-16.54
Peak Value		0.432		Minimum Value -36.894									



Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.14	-15.24	-18.47	-30.89	-19.31	-14.10	-14.70	-18.77	-17.16	-15.55	-17.59	-19.67	-18.62
15	-13.03	-14.28	-16.98	-21.81	-19.58	-15.96	-17.63	-20.43	-15.87	-14.65	-17.49	-21.53	-21.01
30	-11.69	-12.99	-14.78	-19.38	-17.79	-17.51	-20.47	-18.56	-14.23	-13.60	-17.10	-23.46	-24.19
45	-10.53	-11.42	-12.88	-14.26	-15.41	-17.08	-19.50	-15.61	-12.67	-12.79	-16.72	-24.21	-28.47
60	-9.65	-10.30	-11.12	-12.14	-13.43	-15.38	-15.73	-13.01	-11.23	-12.13	-16.22	-23.24	-28.11
75	-8.93	-9.42	-9.98	-10.71	-12.00	-13.52	-12.90	-10.97	-10.14	-11.58	-15.79	-21.50	-24.88
90	-8.51	-8.83	-9.15	-9.89	-11.16	-12.19	-11.16	-9.63	-9.37	-11.24	-15.43	-20.08	-22.38
105	-8.41	-8.58	-8.84	-9.55	-10.97	-11.75	-10.28	-8.83	-8.88	-11.00	-15.09	-19.04	-20.88
120	-8.53	-8.69	-8.90	-9.75	-11.46	-12.15	-10.16	-8.69	-8.86	-11.06	-15.18	-18.71	-20.76
135	-8.96	-9.08	-9.37	-10.41	-12.69	-13.45	-10.86	-9.33	-9.22	-11.42	-15.54	-19.01	-21.05
150	-9.64	-9.70	-10.05	-11.39	-14.47	-15.75	-12.18	-10.08	-10.04	-12.28	-16.77	-20.52	-22.72
165	-10.58	-10.56	-11.02	-12.73	-16.64	-19.93	-14.58	-11.27	-11.50	-13.68	-19.06	-23.16	-25.01
180	-11.72	-11.49	-12.00	-13.97	-18.45	-28.04	-18.92	-15.04	-13.74	-16.20	-24.20	-25.52	-25.20
195	-12.99	-12.76	-13.18	-15.46	-19.25	-26.61	-25.93	-20.16	-17.12	-19.47	-34.34	-24.41	-21.89
210	-14.32	-13.94	-14.50	-17.03	-18.87	-19.14	-22.16	-33.76	-23.10	-22.22	-26.25	-20.50	-18.59
225	-15.57	-15.02	-15.97	-19.24	-18.26	-15.46	-16.41	-22.34	-23.71	-20.31	-19.83	-17.40	-16.39
240	-16.43	-15.93	-17.59	-23.14	-17.46	-13.07	-12.94	-16.31	-18.50	-16.96	-16.68	-15.48	-14.77
255	-16.77	-16.25	-18.33	-30.67	-16.88	-11.50	-10.72	-12.95	-15.24	-14.97	-14.79	-14.20	-13.80
270	-16.71	-16.20	-18.56	-37.85	-15.90	-10.27	-9.38	-11.29	-13.66	-13.91	-14.11	-13.75	-13.22
285	-16.58	-15.91	-18.02	-26.83	-15.18	-9.67	-8.74	-10.64	-13.16	-13.80	-14.06	-13.78	-13.30
300	-16.44	-15.81	-17.63	-23.42	-14.82	-9.63	-8.77	-10.86	-13.70	-14.38	-14.61	-14.35	-13.64
315	-16.41	-15.81	-17.59	-23.16	-15.15	-10.09	-9.38	-11.88	-14.90	-15.33	-15.63	-15.28	-14.39
330	-16.08	-15.95	-18.06	-25.24	-16.03	-10.94	-10.56	-13.64	-16.48	-16.22	-16.76	-16.55	-15.45
345	-15.36	-15.81	-18.76	-30.95	-17.60	-12.26	-12.18	-15.95	-17.50	-16.27	-17.52	-17.97	-16.75
360	-14.14	-15.24	-18.47	-30.89	-19.31	-14.10	-14.70	-18.77	-17.16	-15.55	-17.59	-19.67	-18.62
Avg.	-11.94	-12.16	-12.94	-14.63	-15.11	-13.34	-12.46	-12.66	-12.86	-14.00	-16.75	-18.09	-17.80
<b>Peak Value</b>	<b>-8.413</b>	<b>Minimum Value -37.848</b>											

RHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-15.14	-20.60	-11.31	-6.95	-4.44	-2.86	-2.89	-4.01	-6.12	-8.08	-9.85	-15.35	-23.72
15	-13.78	-19.62	-11.18	-6.65	-4.07	-2.50	-2.49	-3.47	-5.44	-7.57	-9.69	-15.24	-24.99
30	-12.59	-18.64	-11.27	-6.50	-3.87	-2.24	-2.14	-2.97	-4.87	-7.04	-9.38	-14.89	-27.61
45	-11.64	-17.58	-11.54	-6.73	-3.88	-2.14	-1.86	-2.63	-4.37	-6.57	-8.94	-14.15	-30.02
60	-11.11	-17.00	-12.17	-7.16	-4.14	-2.16	-1.81	-2.44	-3.99	-6.11	-8.43	-13.24	-28.74
75	-10.84	-16.81	-13.15	-7.91	-4.65	-2.48	-1.88	-2.36	-3.76	-5.71	-7.88	-12.19	-24.83
90	-10.91	-17.27	-14.50	-8.85	-5.38	-2.95	-2.14	-2.47	-3.68	-5.41	-7.30	-11.22	-21.25
105	-11.32	-18.26	-15.91	-9.94	-6.17	-3.52	-2.54	-2.69	-3.70	-5.14	-6.78	-10.35	-18.76
120	-11.90	-20.05	-17.23	-10.76	-6.93	-4.12	-2.95	-2.99	-3.84	-4.95	-6.34	-9.62	-17.06
135	-12.70	-22.50	-17.41	-10.93	-7.22	-4.45	-3.32	-3.43	-4.04	-4.87	-6.00	-9.09	-15.94
150	-13.67	-26.02	-16.67	-10.57	-7.12	-4.48	-3.47	-3.54	-4.28	-4.93	-5.89	-8.87	-15.58
165	-14.79	-29.99	-15.69	-10.05	-6.76	-4.23	-3.42	-3.63	-4.55	-5.12	-5.96	-8.95	-15.80
180	-15.97	-31.25	-14.94	-9.58	-6.29	-3.90	-3.21	-3.72	-4.85	-5.57	-6.32	-9.26	-16.67
195	-16.93	-29.58	-14.33	-9.18	-5.96	-3.56	-2.99	-3.70	-5.18	-6.09	-6.79	-9.76	-18.28
210	-17.89	-27.82	-14.06	-9.09	-5.75	-3.33	-2.86	-3.75	-5.62	-6.79	-7.53	-10.66	-20.83
225	-18.78	-26.80	-13.96	-9.07	-5.74	-3.25	-2.77	-3.86	-6.12	-7.72	-8.43	-11.78	-24.77
240	-19.66	-25.76	-13.86	-9.17	-5.83	-3.37	-3.01	-4.17	-6.78	-8.79	-9.39	-12.92	-32.53
255	-20.57	-24.70	-13.96	-9.31	-6.03	-3.58	-3.32	-4.62	-7.60	-9.87	-10.33	-13.94	-43.96
270	-21.37	-23.75	-13.70	-9.30	-6.21	-3.86	-3.71	-5.16	-8.40	-10.79	-10.82	-14.59	-29.08
285	-22.13	-23.06	-13.42	-9.29	-6.27	-4.10	-4.05	-5.65	-8.96	-11.06	-10.96	-14.81	-25.80
300	-21.82	-22.73	-12.98	-8.99	-6.23	-4.18	-4.25	-5.87	-9.10	-10.77	-10.78	-14.85	-23.81
315	-20.89	-22.45	-12.57	-8.61	-5.97	-4.07	-4.19	-5.77	-8.60	-10.10	-10.46	-14.83	-23.07
330	-19.10	-22.15	-12.13	-8.06	-5.52	-3.74	-3.88	-5.37	-7.83	-9.29	-10.15	-14.97	-22.86
345	-17.04	-21.58	-11.63	-7.52	-5.01	-3.33	-3.44	-4.60	-7.00	-8.64	-9.97	-15.23	-23.03
360	-15.14	-20.60	-11.31	-6.95	-4.44	-2.86	-2.89	-4.01	-6.12	-8.08	-9.85	-15.35	-23.72
Avg.	-14.63	-21.21	-13.55	-8.74	-5.70	-3.55	-3.14	-3.92	-5.62	-7.11	-8.35	-12.05	-20.83
<b>Peak Value</b>	<b>-1.806</b>	<b>Minimum Value -43.963</b>											

LHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-15.40	-9.97	-7.22	-6.62	-6.31	-3.45	-2.21	-3.94	-7.24	-6.91	-6.70	-9.97	-19.44
15	-15.37	-9.79	-7.02	-6.33	-6.40	-3.90	-2.71	-4.57	-8.16	-7.57	-7.29	-10.96	-22.56
30	-14.86	-9.51	-6.69	-6.21	-6.40	-4.31	-3.24	-5.24	-9.37	-8.48	-8.01	-12.08	-25.98
45	-14.20	-8.96	-6.33	-5.67	-6.27	-4.65	-3.63	-5.77	-10.80	-9.62	-8.84	-13.29	-31.95
60	-13.38	-8.46	-5.88	-5.24	-5.93	-4.64	-3.81	-5.97	-12.27	-11.06	-9.81	-14.52	-31.90
75	-12.45	-7.95	-5.47	-4.79	-5.53	-4.52	-3.66	-5.76	-12.84	-12.67	-10.77	-15.76	-28.81
90	-11.72	-7.48	-5.04	-4.41	-5.08	-4.13	-3.27	-5.18	-12.28	-14.27	-11.62	-16.57	-26.35
105	-11.24	-7.16	-4.80	-4.12	-4.74	-3.72	-2.78	-4.55	-11.20	-15.31	-12.01	-16.56	-24.44
120	-11.01	-7.03	-4.68	-4.06	-4.60	-3.39	-2.34	-3.95	-10.18	-15.21	-11.87	-15.57	-22.28
135	-11.19	-7.08	-4.76	-4.15	-4.73	-3.25	-2.03	-3.48	-9.35	-14.36	-11.27	-14.15	-20.23
150	-11.69	-7.32	-4.96	-4.42	-5.07	-3.29	-1.85	-3.27	-8.81	-13.02	-10.29	-12.49	-17.99
165	-12.51	-7.73	-5.32	-4.89	-5.64	-3.55	-1.87	-3.17	-8.48	-11.63	-9.17	-11.00	-15.89
180	-13.65	-8.25	-5.72	-5.43	-6.41	-3.93	-2.00	-3.26	-8.14	-10.20	-8.01	-9.68	-14.14
195	-15.15	-9.03	-6.30	-6.13	-7.35	-4.38	-2.18	-3.34	-7.83	-8.96	-7.13	-8.64	-12.87
210	-16.80	-9.78	-6.94	-6.87	-8.35	-4.80	-2.34	-3.43	-7.39	-7.84	-6.29	-7.82	-11.85
225	-18.30	-10.57	-7.58	-7.64	-9.17	-5.04	-2.38	-3.43	-6.91	-6.94	-5.67	-7.27	-11.31
240	-18.82	-11.28	-8.22	-8.39	-9.76	-4.89	-2.28	-3.30	-6.35	-6.20	-5.27	-6.95	-11.00
255	-18.27	-11.61	-8.62	-8.89	-9.68	-4.58	-2.07	-3.07	-5.84	-5.69	-5.00	-6.79	-10.98
270	-17.24	-11.58	-8.77	-9.07	-9.02	-3.96	-1.75	-2.81	-5.44	-5.42	-4.94	-6.89	-11.23
285	-16.28	-11.29	-8.61	-8.71	-8.14	-3.39	-1.44	-2.63	-5.22	-5.29	-5.02	-7.08	-11.79
300	-15.67	-10.98	-8.33	-8.21	-7.28	-2.99	-1.27	-2.57	-5.26	-5.39	-5.18	-7.45	-12.59
315	-15.35	-10.64	-7.98	-7.69	-6.69	-2.77	-1.26	-2.71	-5.46	-5.58	-5.45	-7.88	-13.71
330	-15.30	-10.40	-7.68	-7.29	-6.38	-2.80	-1.43	-3.04	-5.84	-5.93	-5.79	-8.45	-15.15
345	-15.44	-10.16	-7.45	-6.94	-6.29	-3.02	-1.76	-3.39	-6.43	-6.36	-6.20	-9.14	-16.94
360	-15.40	-9.97	-7.22	-6.62	-6.31	-3.45	-2.21	-3.94	-7.24	-6.91	-6.70	-9.97	-19.44
Avg.	-14.22	-9.24	-6.65	-6.23	-6.64	-4.01	-2.43	-3.89	-7.82	-8.24	-7.39	-9.81	-15.15
Peak Value		-1.261		Minimum Value -31.950									

AR													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	36.44	5.26	12.73	34.44	19.40	29.39	28.25	47.79	23.80	23.48	14.93	10.45	12.35
15	20.79	5.81	12.57	34.87	17.49	21.92	38.08	23.95	16.18	76.52	17.25	12.34	17.15
30	17.71	6.34	11.78	35.46	16.82	18.50	23.94	17.73	11.92	21.64	22.07	15.89	20.60
45	16.70	6.76	10.72	24.27	17.27	16.85	19.89	14.97	9.02	15.19	45.23	26.09	19.13
60	17.74	6.83	9.19	19.19	19.78	16.95	18.81	13.95	7.07	11.14	22.01	22.65	14.90
75	20.64	6.56	7.63	15.03	25.91	18.63	19.82	14.28	6.38	8.39	15.66	13.85	12.93
90	26.57	5.84	6.08	12.03	35.45	23.40	23.70	16.21	6.78	6.55	12.27	10.49	10.90
105	46.85	4.97	4.97	9.81	21.73	38.77	37.25	19.45	7.82	5.57	10.68	9.30	10.02
120	25.90	3.95	4.17	8.69	17.49	27.46	29.13	25.18	9.13	5.51	10.23	9.63	10.70
135	21.20	2.97	4.12	8.60	16.94	23.19	22.59	50.20	10.56	6.06	10.62	10.95	12.34
150	18.87	2.03	4.62	9.37	18.60	23.29	20.66	36.26	11.87	7.23	12.10	13.75	17.20
165	17.68	1.34	5.43	10.80	23.83	28.16	20.97	31.42	13.06	8.91	14.74	18.61	45.03
180	17.54	1.23	6.27	12.59	43.28	53.83	23.20	31.52	14.56	11.68	20.27	32.21	16.79
195	19.83	1.63	7.29	15.20	21.95	26.49	26.70	33.54	16.39	15.74	34.25	23.86	10.42
210	24.00	2.19	8.21	17.94	16.56	21.49	30.54	34.73	19.83	24.41	22.99	15.81	6.46
225	31.26	2.70	9.08	21.71	14.20	19.79	33.10	32.26	26.75	26.97	16.05	11.89	3.74
240	26.37	3.32	10.07	26.96	13.04	21.19	27.46	26.01	32.32	16.59	12.65	9.61	1.46
255	17.61	3.92	10.51	32.28	13.67	24.82	22.85	21.01	19.93	12.54	10.54	8.17	0.39
270	12.66	4.37	11.18	37.60	15.92	44.40	18.99	17.43	15.45	10.46	9.74	7.61	2.24
285	9.78	4.59	11.37	29.51	19.40	27.87	16.52	15.28	13.47	9.89	9.66	7.58	3.51
300	9.36	4.59	11.64	26.91	24.38	23.32	15.38	14.53	13.25	10.45	10.14	7.91	4.90
315	10.21	4.56	11.76	25.47	27.75	22.55	15.55	15.17	14.94	11.89	11.05	8.40	6.16
330	13.32	4.60	12.02	26.99	26.18	25.34	17.09	17.50	18.84	14.38	12.19	8.92	7.61
345	20.73	4.78	12.54	29.49	22.68	34.93	20.30	23.17	29.62	17.68	13.41	9.44	9.45
360	36.44	5.26	12.73	34.44	19.40	29.39	28.25	47.79	23.80	23.48	14.93	10.45	12.35
Avg.	33.56	4.35	9.69	29.27	30.48	40.57	28.89	38.59	21.97	62.54	31.70	20.55	31.12
Peak Value		#####		Minimum Value 0.390									

513.7 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-11.52	-9.17	-5.49	-3.51	-2.03	0.12	0.76	-0.65	-3.27	-4.09	-4.63	-8.45	-17.22
15	-10.69	-8.88	-5.29	-3.19	-1.82	0.13	0.70	-0.65	-3.23	-4.18	-4.95	-9.16	-19.87
30	-9.67	-8.45	-5.04	-3.04	-1.70	0.10	0.64	-0.65	-3.15	-4.30	-5.26	-9.80	-23.20
45	-8.83	-7.80	-4.77	-2.81	-1.64	0.05	0.63	-0.58	-3.06	-4.38	-5.50	-10.20	-27.42
60	-8.12	-7.23	-4.51	-2.72	-1.63	0.06	0.62	-0.49	-2.94	-4.43	-5.65	-10.33	-26.33
75	-7.58	-6.67	-4.27	-2.64	-1.74	-0.09	0.64	-0.35	-2.78	-4.44	-5.65	-10.11	-22.55
90	-7.26	-6.26	-4.04	-2.65	-1.90	-0.20	0.67	-0.21	-2.63	-4.34	-5.50	-9.61	-19.22
105	-7.22	-6.10	-3.93	-2.66	-2.09	-0.32	0.68	-0.11	-2.50	-4.23	-5.25	-8.98	-16.98
120	-7.41	-6.09	-3.90	-2.79	-2.30	-0.45	0.70	-0.04	-2.42	-4.06	-4.86	-8.22	-15.24
135	-7.86	-6.25	-3.99	-2.94	-2.53	-0.55	0.70	-0.06	-2.45	-3.93	-4.51	-7.53	-14.06
150	-8.55	-6.58	-4.19	-3.10	-2.74	-0.62	0.72	-0.04	-2.53	-3.87	-4.19	-6.95	-13.21
165	-9.44	-7.07	-4.47	-3.39	-2.95	-0.67	0.71	-0.02	-2.67	-3.88	-3.93	-6.53	-12.52
180	-10.66	-7.65	-4.81	-3.71	-3.17	-0.72	0.71	-0.14	-2.82	-3.97	-3.77	-6.13	-11.95
195	-11.90	-8.44	-5.29	-4.11	-3.44	-0.77	0.71	-0.19	-2.94	-3.99	-3.65	-5.87	-11.47
210	-13.23	-9.26	-5.81	-4.56	-3.71	-0.81	0.69	-0.25	-3.09	-4.03	-3.60	-5.71	-10.99
225	-14.53	-10.04	-6.40	-5.03	-3.96	-0.82	0.73	-0.30	-3.15	-4.00	-3.54	-5.63	-10.61
240	-15.15	-10.69	-6.87	-5.53	-4.19	-0.80	0.71	-0.35	-3.21	-4.00	-3.56	-5.60	-10.40
255	-15.14	-10.91	-7.21	-5.83	-4.29	-0.75	0.71	-0.38	-3.22	-3.97	-3.58	-5.64	-10.30
270	-14.85	-10.84	-7.26	-5.95	-4.17	-0.58	0.78	-0.43	-3.27	-3.97	-3.62	-5.76	-10.41
285	-14.25	-10.51	-7.04	-5.72	-3.87	-0.39	0.84	-0.48	-3.31	-3.94	-3.70	-5.97	-10.76
300	-13.90	-10.16	-6.71	-5.32	-3.48	-0.19	0.88	-0.52	-3.36	-3.95	-3.79	-6.28	-11.43
315	-13.47	-9.87	-6.32	-4.83	-3.06	-0.04	0.89	-0.59	-3.41	-3.93	-3.92	-6.69	-12.32
330	-13.08	-9.62	-6.00	-4.36	-2.68	0.07	0.85	-0.69	-3.38	-3.96	-4.09	-7.18	-13.51
345	-12.35	-9.42	-5.70	-3.94	-2.35	0.11	0.81	-0.62	-3.34	-3.99	-4.35	-7.79	-15.06
360	-11.52	-9.17	-5.49	-3.51	-2.03	0.12	0.76	-0.65	-3.27	-4.09	-4.63	-8.45	-17.22
Avg.	-10.44	-8.37	-5.43	-3.97	-2.90	-0.50	0.55	-0.54	-3.17	-4.25	-4.49	-7.39	-13.50
Peak Value		0.889		Minimum Value -27.415									

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.75	-10.81	-5.77	-3.52	-2.13	-0.09	0.60	-0.74	-3.50	-4.47	-4.88	-8.83	-25.91
15	-16.70	-10.87	-5.69	-3.27	-1.91	-0.01	0.62	-0.71	-3.54	-4.70	-5.24	-9.44	-29.37
30	-16.94	-11.01	-5.66	-3.17	-1.84	0.00	0.60	-0.74	-3.61	-5.00	-5.61	-10.02	-32.88
45	-17.45	-11.21	-5.74	-3.24	-1.88	-0.06	0.57	-0.76	-3.72	-5.27	-5.92	-10.41	-40.54
60	-18.31	-11.43	-5.89	-3.40	-2.02	-0.11	0.49	-0.81	-3.86	-5.51	-6.16	-10.62	-35.29
75	-19.41	-11.57	-6.08	-3.60	-2.31	-0.35	0.39	-0.85	-3.94	-5.68	-6.23	-10.55	-29.01
90	-21.22	-11.54	-6.20	-3.83	-2.60	-0.56	0.29	-0.88	-4.01	-5.70	-6.11	-10.17	-23.75
105	-23.36	-11.49	-6.19	-3.96	-2.87	-0.73	0.23	-0.90	-3.99	-5.60	-5.87	-9.58	-20.25
120	-25.01	-11.16	-6.12	-4.05	-3.02	-0.83	0.24	-0.83	-3.90	-5.36	-5.41	-8.75	-17.27
135	-26.24	-10.87	-5.98	-4.02	-3.08	-0.83	0.32	-0.73	-3.79	-5.07	-4.97	-7.94	-15.31
150	-26.95	-10.67	-5.89	-4.00	-3.13	-0.78	0.46	-0.59	-3.62	-4.78	-4.52	-7.19	-13.86
165	-27.99	-10.66	-5.88	-4.08	-3.19	-0.73	0.56	-0.42	-3.45	-4.51	-4.11	-6.66	-12.83
180	-30.14	-10.76	-6.00	-4.24	-3.33	-0.73	0.66	-0.30	-3.29	-4.31	-3.83	-6.19	-12.22
195	-34.14	-11.16	-6.25	-4.52	-3.59	-0.79	0.70	-0.24	-3.15	-4.16	-3.65	-5.94	-11.96
210	-41.80	-11.65	-6.60	-4.88	-3.88	-0.90	0.65	-0.25	-3.15	-4.12	-3.63	-5.89	-12.00
225	-36.09	-12.24	-7.02	-5.22	-4.17	-1.02	0.61	-0.34	-3.21	-4.14	-3.67	-6.01	-12.37
240	-29.36	-12.76	-7.36	-5.62	-4.46	-1.16	0.44	-0.51	-3.39	-4.27	-3.84	-6.20	-13.09
255	-25.65	-12.99	-7.64	-5.85	-4.60	-1.26	0.27	-0.71	-3.61	-4.43	-4.00	-6.48	-13.94
270	-23.27	-12.92	-7.69	-5.95	-4.56	-1.24	0.20	-0.92	-3.82	-4.56	-4.13	-6.75	-15.05
285	-21.01	-12.54	-7.51	-5.77	-4.29	-1.10	0.18	-1.04	-3.92	-4.53	-4.22	-6.98	-16.22
300	-19.45	-12.07	-7.19	-5.41	-3.90	-0.87	0.23	-1.05	-3.89	-4.45	-4.24	-7.23	-17.53
315	-18.26	-11.62	-6.76	-4.91	-3.40	-0.61	0.34	-1.01	-3.80	-4.31	-4.28	-7.50	-19.00
330	-17.56	-11.17	-6.35	-4.40	-2.93	-0.38	0.44	-0.98	-3.64	-4.27	-4.37	-7.83	-20.68
345	-17.03	-10.92	-5.99	-3.95	-2.51	-0.21	0.53	-0.78	-3.55	-4.31	-4.59	-8.30	-22.98
360	-16.75	-10.81	-5.77	-3.52	-2.13	-0.09	0.60	-0.74	-3.50	-4.47	-4.88	-8.83	-25.91
Avg.	-20.76	-11.63	-6.52	-4.46	-3.24	-0.80	0.27	-0.88	-3.81	-4.88	-4.82	-7.88	-16.24
Peak Value		0.705		Minimum Value -41.795									

Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-13.07	-14.21	-17.51	-29.35	-18.51	-13.14	-13.69	-17.72	-16.25	-14.81	-17.06	-19.14	-17.85
15	-11.95	-13.22	-15.88	-20.66	-18.51	-15.01	-16.58	-19.31	-14.79	-13.70	-16.84	-21.19	-20.39
30	-10.57	-11.96	-13.82	-18.12	-16.64	-16.34	-19.29	-17.29	-13.05	-12.59	-16.40	-22.99	-23.70
45	-9.48	-10.45	-11.78	-13.14	-14.32	-15.82	-18.28	-14.49	-11.57	-11.73	-15.80	-23.45	-27.63
60	-8.56	-9.31	-10.15	-11.09	-12.27	-14.15	-14.57	-11.99	-10.12	-11.00	-15.18	-22.19	-26.92
75	-7.87	-8.38	-8.96	-9.67	-10.89	-12.40	-11.95	-9.96	-9.09	-10.48	-14.66	-20.34	-23.66
90	-7.44	-7.78	-8.11	-8.86	-10.14	-11.15	-10.17	-8.65	-8.29	-10.05	-14.29	-18.75	-21.11
105	-7.32	-7.58	-7.84	-8.54	-9.94	-10.78	-9.40	-7.92	-7.87	-9.90	-13.96	-17.90	-19.75
120	-7.49	-7.71	-7.89	-8.77	-10.49	-11.22	-9.28	-7.79	-7.81	-9.91	-14.03	-17.62	-19.53
135	-7.93	-8.09	-8.35	-9.49	-11.76	-12.47	-10.04	-8.50	-8.22	-10.29	-14.47	-17.99	-20.10
150	-8.61	-8.73	-9.08	-10.39	-13.45	-14.99	-11.49	-9.29	-9.07	-11.13	-15.62	-19.48	-21.79
165	-9.50	-9.58	-10.02	-11.73	-15.66	-19.32	-14.06	-10.54	-10.50	-12.58	-17.85	-21.92	-24.17
180	-10.71	-10.57	-11.01	-13.08	-17.57	-27.90	-18.62	-14.44	-12.75	-15.11	-22.87	-24.68	-24.09
195	-11.93	-11.77	-12.32	-14.54	-18.17	-24.41	-25.78	-19.87	-16.22	-18.27	-32.68	-23.70	-21.25
210	-13.24	-12.99	-13.63	-16.15	-17.86	-17.65	-20.34	-36.42	-21.99	-20.95	-25.20	-19.55	-17.80
225	-14.56	-14.04	-15.16	-18.66	-17.21	-14.21	-14.90	-20.63	-21.86	-19.12	-18.88	-16.42	-15.40
240	-15.32	-14.90	-16.62	-22.49	-16.41	-11.82	-11.63	-14.82	-17.14	-16.05	-15.67	-14.44	-13.76
255	-15.55	-15.13	-17.42	-30.68	-15.88	-10.34	-9.48	-11.74	-13.98	-13.94	-13.92	-13.20	-12.76
270	-15.52	-15.03	-17.53	-34.33	-14.83	-9.13	-8.21	-10.18	-12.53	-12.98	-13.14	-12.67	-12.24
285	-15.28	-14.79	-16.88	-25.14	-14.18	-8.63	-7.66	-9.61	-12.12	-12.96	-13.20	-12.80	-12.21
300	-15.32	-14.65	-16.48	-22.12	-13.87	-8.61	-7.71	-9.90	-12.76	-13.60	-13.88	-13.39	-12.66
315	-15.22	-14.66	-16.49	-22.13	-14.31	-9.09	-8.39	-11.01	-14.09	-14.60	-14.89	-14.42	-13.37
330	-14.99	-14.85	-17.11	-24.23	-15.13	-10.02	-9.57	-12.71	-15.70	-15.58	-16.15	-15.77	-14.43
345	-14.16	-14.77	-17.70	-30.05	-16.74	-11.39	-11.25	-15.10	-16.66	-15.54	-17.04	-17.37	-15.82
360	-13.07	-14.21	-17.51	-29.35	-18.51	-13.14	-13.69	-17.72	-16.25	-14.81	-17.06	-19.14	-17.85
Avg.	-10.87	-11.15	-11.95	-13.64	-14.10	-12.30	-11.45	-11.71	-11.82	-12.97	-15.83	-17.13	-16.81
Peak Value			-7.325		Minimum Value		-36.416						

RHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.59	-21.88	-11.32	-6.74	-4.10	-2.49	-2.53	-3.65	-5.62	-7.61	-9.48	-15.00	-23.45
15	-13.13	-20.45	-11.27	-6.44	-3.72	-2.11	-2.10	-3.04	-4.94	-7.05	-9.23	-14.78	-25.05
30	-11.80	-18.96	-11.37	-6.33	-3.56	-1.87	-1.75	-2.56	-4.31	-6.48	-8.86	-14.34	-28.28
45	-10.87	-17.64	-11.70	-6.57	-3.61	-1.78	-1.51	-2.21	-3.82	-5.98	-8.41	-13.57	-30.21
60	-10.29	-16.81	-12.44	-7.10	-3.86	-1.81	-1.45	-2.02	-3.43	-5.48	-7.86	-12.56	-27.91
75	-9.96	-16.36	-13.53	-7.87	-4.42	-2.17	-1.55	-1.95	-3.21	-5.11	-7.29	-11.54	-23.79
90	-9.96	-16.56	-15.10	-8.91	-5.23	-2.68	-1.84	-2.06	-3.13	-4.75	-6.73	-10.56	-20.23
105	-10.31	-17.26	-16.86	-10.14	-6.11	-3.29	-2.28	-2.33	-3.18	-4.53	-6.24	-9.79	-17.92
120	-10.83	-18.89	-18.67	-11.13	-6.92	-3.95	-2.73	-2.66	-3.30	-4.34	-5.79	-9.09	-16.26
135	-11.62	-21.21	-18.92	-11.30	-7.24	-4.32	-3.13	-3.12	-3.56	-4.29	-5.52	-8.62	-15.36
150	-12.53	-24.54	-17.92	-10.98	-7.13	-4.34	-3.28	-3.29	-3.83	-4.38	-5.41	-8.43	-15.04
165	-13.55	-29.79	-16.63	-10.28	-6.70	-4.08	-3.23	-3.34	-4.13	-4.63	-5.51	-8.55	-15.43
180	-14.70	-39.46	-15.68	-9.71	-6.20	-3.66	-2.99	-3.42	-4.44	-5.13	-5.93	-8.93	-16.57
195	-15.64	-37.21	-14.82	-9.23	-5.77	-3.29	-2.73	-3.42	-4.76	-5.68	-6.44	-9.52	-18.21
210	-16.51	-31.13	-14.43	-9.11	-5.54	-3.02	-2.55	-3.40	-5.23	-6.44	-7.32	-10.55	-21.15
225	-17.53	-28.44	-14.25	-8.97	-5.48	-2.90	-2.42	-3.49	-5.71	-7.42	-8.29	-11.77	-25.98
240	-18.27	-26.15	-14.03	-9.07	-5.53	-2.97	-2.62	-3.77	-6.38	-8.54	-9.39	-13.03	-38.05
255	-19.18	-24.46	-13.93	-9.12	-5.71	-3.15	-2.90	-4.18	-7.17	-9.74	-10.35	-14.14	-33.70
270	-20.12	-23.30	-13.62	-9.12	-5.85	-3.44	-3.28	-4.74	-8.01	-10.72	-10.93	-14.82	-26.26
285	-20.78	-22.57	-13.27	-9.02	-5.92	-3.65	-3.64	-5.24	-8.65	-11.01	-10.99	-14.82	-23.37
300	-20.91	-22.40	-12.81	-8.74	-5.88	-3.76	-3.89	-5.51	-8.74	-10.66	-10.68	-14.82	-22.09
315	-20.15	-22.79	-12.39	-8.32	-5.61	-3.65	-3.79	-5.40	-8.30	-9.89	-10.32	-14.79	-21.56
330	-18.42	-22.74	-11.93	-7.79	-5.15	-3.34	-3.51	-5.01	-7.45	-8.98	-9.93	-14.83	-21.72
345	-16.47	-22.79	-11.55	-7.28	-4.64	-2.94	-3.06	-4.24	-6.55	-8.24	-9.66	-14.97	-22.25
360	-14.59	-21.88	-11.32	-6.74	-4.10	-2.49	-2.53	-3.65	-5.62	-7.61	-9.48	-15.00	-23.45
Avg.	-13.68	-21.07	-13.75	-8.66	-5.45	-3.22	-2.82	-3.55	-5.14	-6.63	-7.97	-11.71	-20.27
Peak Value			-1.449		Minimum Value		-39.461						

LHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.47	-9.41	-6.80	-6.32	-6.24	-3.32	-1.98	-3.67	-7.06	-6.64	-6.35	-9.53	-18.41
15	-14.36	-9.19	-6.55	-5.98	-6.31	-3.82	-2.53	-4.39	-8.11	-7.34	-6.98	-10.56	-21.45
30	-13.80	-8.85	-6.19	-5.78	-6.26	-4.27	-3.09	-5.13	-9.44	-8.34	-7.76	-11.69	-24.81
45	-13.09	-8.28	-5.76	-5.19	-6.02	-4.59	-3.47	-5.62	-11.00	-9.50	-8.60	-12.87	-30.66
60	-12.18	-7.74	-5.27	-4.69	-5.60	-4.50	-3.59	-5.76	-12.62	-11.10	-9.64	-14.30	-31.49
75	-11.32	-7.17	-4.82	-4.19	-5.11	-4.28	-3.40	-5.46	-13.05	-12.90	-10.67	-15.63	-28.59
90	-10.61	-6.68	-4.39	-3.82	-4.61	-3.81	-2.92	-4.81	-12.28	-14.80	-11.57	-16.69	-26.04
105	-10.15	-6.45	-4.16	-3.52	-4.29	-3.38	-2.39	-4.09	-10.88	-16.03	-12.14	-16.70	-24.09
120	-10.05	-6.32	-4.05	-3.47	-4.14	-3.03	-1.93	-3.47	-9.77	-16.04	-11.97	-15.62	-22.06
135	-10.23	-6.39	-4.14	-3.62	-4.33	-2.90	-1.61	-3.02	-8.94	-14.99	-11.34	-14.08	-19.93
150	-10.77	-6.65	-4.37	-3.88	-4.71	-3.01	-1.48	-2.83	-8.42	-13.47	-10.31	-12.32	-17.84
165	-11.58	-7.10	-4.74	-4.38	-5.33	-3.32	-1.54	-2.74	-8.11	-11.87	-9.09	-10.83	-15.63
180	-12.85	-7.66	-5.18	-4.97	-6.16	-3.80	-1.70	-2.89	-7.89	-10.26	-7.85	-9.37	-13.78
195	-14.29	-8.45	-5.81	-5.70	-7.26	-4.33	-1.90	-2.99	-7.59	-8.91	-6.89	-8.32	-12.51
210	-15.99	-9.29	-6.46	-6.44	-8.33	-4.80	-2.11	-3.13	-7.20	-7.74	-5.99	-7.43	-11.43
225	-17.56	-10.10	-7.17	-7.27	-9.25	-5.02	-2.14	-3.13	-6.65	-6.64	-5.32	-6.84	-10.74
240	-18.05	-10.81	-7.80	-8.07	-9.95	-4.86	-2.01	-2.98	-6.06	-5.87	-4.88	-6.46	-10.41
255	-17.32	-11.11	-8.24	-8.59	-9.84	-4.47	-1.77	-2.73	-5.46	-5.31	-4.61	-6.31	-10.32
270	-16.38	-11.09	-8.41	-8.80	-9.10	-3.75	-1.38	-2.44	-5.05	-5.00	-4.51	-6.34	-10.53
285	-15.34	-10.79	-8.22	-8.45	-8.11	-3.17	-1.07	-2.25	-4.81	-4.89	-4.60	-6.57	-11.00
300	-14.86	-10.43	-7.93	-7.96	-7.21	-2.71	-0.88	-2.17	-4.84	-4.99	-4.78	-6.94	-11.82
315	-14.52	-10.10	-7.55	-7.41	-6.59	-2.52	-0.92	-2.34	-5.11	-5.19	-5.05	-7.43	-12.87
330	-14.58	-9.84	-7.28	-6.98	-6.30	-2.57	-1.13	-2.70	-5.53	-5.61	-5.41	-8.00	-14.22
345	-14.48	-9.62	-7.01	-6.65	-6.21	-2.87	-1.49	-3.11	-6.17	-6.04	-5.86	-8.71	-15.98
360	-14.47	-9.41	-6.80	-6.32	-6.24	-3.32	-1.98	-3.67	-7.06	-6.64	-6.35	-9.53	-18.41
Avg.	-13.24	-8.61	-6.12	-5.77	-6.42	-3.82	-2.13	-3.54	-7.55	-8.01	-7.08	-9.40	-14.53
Peak Value	-0.881	Minimum Value -31.493											

AR													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	43.50	4.21	11.89	32.30	18.26	26.49	29.92	55.70	21.64	25.13	14.95	10.32	10.98
15	23.02	4.87	11.53	31.51	16.60	20.16	32.14	22.19	14.87	35.36	17.78	12.46	13.80
30	18.81	5.62	10.77	30.11	16.23	17.26	22.31	16.66	10.84	19.42	23.99	16.40	14.10
45	17.93	6.16	9.65	21.98	17.22	15.91	18.97	14.23	8.15	13.97	38.97	27.91	31.72
60	19.32	6.38	8.16	17.21	20.00	16.27	18.21	13.48	6.29	10.10	19.84	19.99	13.83
75	22.16	6.29	6.68	13.62	28.01	18.35	19.50	13.99	5.81	7.52	14.34	12.72	11.39
90	28.59	5.78	5.22	10.90	29.07	23.79	24.11	16.09	6.32	5.65	11.33	9.40	9.83
105	41.10	5.15	4.10	8.78	19.61	45.80	43.87	19.91	7.61	4.74	9.70	8.45	9.34
120	26.99	4.17	3.27	7.65	16.00	25.47	26.68	26.67	8.97	4.62	9.34	8.89	9.84
135	21.97	3.19	3.20	7.64	15.59	21.77	21.18	44.03	10.46	5.22	9.82	10.34	11.79
150	19.89	2.23	3.71	8.24	17.17	22.37	19.73	31.58	11.76	6.37	11.22	13.14	15.93
165	18.95	1.28	4.52	9.71	22.08	27.26	20.26	29.23	12.95	8.08	13.82	17.67	38.79
180	19.49	0.45	5.35	11.48	53.27	42.09	22.60	30.32	14.17	10.83	19.17	31.90	15.95
195	22.22	0.63	6.43	13.96	21.39	24.44	26.50	32.23	15.85	14.70	31.80	23.21	9.98
210	30.54	1.41	7.34	16.36	15.96	19.80	31.98	36.43	18.97	22.58	22.39	15.01	5.89
225	55.06	2.11	8.26	20.26	13.39	18.32	35.97	33.70	25.39	26.95	15.41	11.17	3.04
240	37.99	3.00	9.27	24.88	12.06	19.28	29.16	26.89	34.66	16.32	11.90	8.85	0.72
255	19.46	3.80	10.00	30.38	12.62	22.41	23.77	21.60	20.18	12.04	9.92	7.49	1.18
270	13.49	4.35	10.71	34.72	14.66	34.83	19.26	17.62	15.46	9.96	9.03	6.88	2.86
285	10.36	4.58	10.97	29.61	18.06	31.28	16.65	15.37	13.25	9.42	9.07	7.09	4.26
300	9.50	4.47	11.25	26.89	22.32	24.43	15.32	14.43	13.13	10.03	9.71	7.43	5.50
315	10.08	4.10	11.32	25.68	24.90	23.70	15.69	15.15	14.82	11.56	10.62	7.95	6.70
330	13.24	4.00	11.65	26.60	23.59	27.11	17.30	17.56	19.18	14.36	11.89	8.54	7.82
345	18.84	3.88	11.84	28.84	20.88	48.57	20.89	23.76	33.16	17.96	13.33	9.23	9.22
360	43.50	4.21	11.89	32.30	18.26	26.49	29.92	55.70	21.64	25.13	14.95	10.32	10.98
Avg.	41.65	3.97	8.96	26.80	39.35	37.31	31.59	42.16	23.83	22.86	26.16	20.46	25.72
Peak Value	####	Minimum Value 0.446											

515.0 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-11.64	-9.27	-5.59	-3.61	-2.25	-0.04	0.65	-0.75	-3.34	-4.19	-4.70	-8.44	-17.13
15	-10.75	-9.18	-5.40	-3.31	-1.99	-0.01	0.62	-0.75	-3.28	-4.27	-4.84	-8.84	-18.65
30	-10.22	-8.49	-5.29	-3.19	-1.93	-0.06	0.53	-0.75	-3.25	-4.30	-5.15	-9.73	-21.50
45	-9.39	-8.29	-5.04	-3.02	-1.82	-0.10	0.52	-0.70	-3.11	-4.45	-5.61	-9.98	-27.34
60	-8.62	-7.66	-4.85	-2.72	-1.88	-0.12	0.46	-0.63	-3.11	-4.47	-5.62	-10.25	-27.85
75	-7.96	-7.08	-4.32	-2.77	-1.75	-0.15	0.57	-0.53	-2.81	-4.43	-5.76	-10.17	-22.93
90	-7.49	-6.60	-4.28	-2.66	-2.11	-0.29	0.48	-0.39	-2.77	-4.46	-5.59	-9.92	-20.69
105	-7.24	-6.21	-4.07	-2.81	-2.27	-0.50	0.55	-0.27	-2.63	-4.28	-5.33	-8.97	-16.89
120	-7.35	-6.16	-4.04	-2.85	-2.38	-0.61	0.57	-0.17	-2.54	-4.12	-5.13	-8.62	-15.25
135	-7.89	-6.23	-4.17	-2.97	-2.61	-0.74	0.57	-0.16	-2.46	-4.08	-4.55	-7.55	-14.76
150	-8.22	-6.48	-4.31	-3.23	-2.85	-0.86	0.65	-0.21	-2.69	-3.87	-4.51	-7.36	-13.90
165	-9.54	-6.94	-4.44	-3.48	-3.07	-0.83	0.53	-0.11	-2.61	-4.12	-4.24	-6.83	-12.53
180	-10.71	-7.82	-4.77	-3.66	-3.37	-0.89	0.63	-0.30	-2.84	-4.08	-3.85	-6.20	-12.32
195	-11.32	-8.15	-5.26	-4.03	-3.57	-0.98	0.58	-0.22	-3.10	-4.12	-3.85	-6.10	-11.80
210	-13.33	-9.13	-5.65	-4.51	-3.79	-0.98	0.53	-0.32	-3.10	-4.15	-3.76	-5.89	-11.12
225	-13.82	-9.80	-6.38	-5.13	-4.25	-1.04	0.55	-0.41	-3.19	-4.12	-3.74	-5.66	-11.01
240	-15.05	-10.50	-6.95	-5.49	-4.33	-1.02	0.50	-0.32	-3.19	-4.15	-3.67	-5.80	-10.84
255	-15.12	-11.06	-7.38	-5.98	-4.54	-0.93	0.54	-0.54	-3.41	-4.11	-3.77	-5.83	-10.36
270	-15.00	-11.06	-7.41	-6.08	-4.48	-0.82	0.64	-0.57	-3.26	-4.10	-3.75	-5.78	-10.41
285	-14.46	-10.63	-7.13	-6.00	-4.27	-0.66	0.72	-0.50	-3.40	-4.09	-3.78	-5.94	-10.61
300	-14.04	-10.46	-6.99	-5.68	-3.92	-0.45	0.77	-0.60	-3.49	-4.02	-3.89	-6.36	-11.48
315	-13.61	-9.89	-6.62	-5.22	-3.52	-0.30	0.73	-0.66	-3.48	-4.11	-4.00	-6.51	-11.83
330	-13.21	-9.85	-6.06	-4.74	-3.08	-0.15	0.76	-0.79	-3.42	-4.08	-4.09	-7.08	-13.56
345	-12.75	-9.51	-5.96	-4.28	-2.52	-0.07	0.65	-0.66	-3.48	-4.07	-4.41	-7.47	-14.21
360	-11.64	-9.27	-5.59	-3.61	-2.25	-0.04	0.65	-0.75	-3.34	-4.19	-4.70	-8.44	-17.13
Avg.	-10.56	-8.48	-5.56	-4.09	-3.10	-0.69	0.42	-0.64	-3.25	-4.35	-4.60	-7.46	-13.60
Peak Value		0.774		Minimum Value -27.847									

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-17.09	-10.92	-5.88	-3.62	-2.34	-0.25	0.49	-0.83	-3.57	-4.55	-4.92	-8.80	-25.30
15	-17.10	-11.00	-5.80	-3.39	-2.09	-0.18	0.50	-0.83	-3.61	-4.77	-5.09	-9.07	-28.81
30	-17.14	-11.09	-5.78	-3.33	-2.04	-0.16	0.47	-0.82	-3.64	-4.89	-5.45	-9.97	-31.82
45	-17.90	-11.44	-5.81	-3.33	-2.01	-0.21	0.46	-0.83	-3.80	-5.35	-5.99	-10.16	-37.12
60	-18.16	-11.48	-6.04	-3.41	-2.21	-0.27	0.37	-0.87	-3.92	-5.46	-6.07	-10.48	-53.95
75	-19.93	-11.76	-6.13	-3.60	-2.32	-0.42	0.32	-0.95	-3.99	-5.69	-6.27	-10.59	-32.41
90	-21.91	-11.77	-6.27	-3.83	-2.80	-0.62	0.17	-0.98	-4.07	-5.81	-6.19	-10.40	-26.29
105	-22.79	-11.62	-6.33	-4.08	-3.07	-0.92	0.10	-0.99	-4.08	-5.72	-5.95	-9.59	-20.15
120	-25.96	-11.47	-6.29	-4.17	-3.16	-1.03	0.11	-0.96	-4.04	-5.48	-5.76	-9.22	-17.25
135	-26.54	-11.18	-6.18	-4.17	-3.27	-1.03	0.15	-0.82	-3.88	-5.37	-5.06	-8.00	-16.35
150	-27.73	-10.93	-6.04	-4.13	-3.34	-1.02	0.33	-0.75	-3.80	-4.91	-4.86	-7.64	-14.68
165	-29.04	-10.85	-6.02	-4.14	-3.39	-0.93	0.39	-0.50	-3.55	-4.79	-4.43	-7.02	-12.95
180	-30.18	-10.99	-6.09	-4.28	-3.58	-0.92	0.54	-0.46	-3.46	-4.44	-3.95	-6.28	-12.58
195	-36.56	-11.14	-6.38	-4.51	-3.72	-1.01	0.58	-0.31	-3.30	-4.38	-3.86	-6.17	-12.10
210	-40.41	-11.92	-6.54	-4.80	-3.94	-1.04	0.52	-0.32	-3.22	-4.27	-3.76	-6.00	-12.11
225	-35.99	-12.17	-6.98	-5.39	-4.46	-1.26	0.48	-0.42	-3.23	-4.26	-3.80	-6.04	-12.35
240	-32.20	-12.72	-7.54	-5.56	-4.58	-1.32	0.30	-0.48	-3.38	-4.36	-3.86	-6.31	-13.22
255	-26.19	-13.22	-7.82	-6.02	-4.87	-1.47	0.17	-0.79	-3.69	-4.57	-4.11	-6.58	-14.06
270	-24.77	-13.27	-7.86	-6.08	-4.84	-1.44	0.10	-0.99	-3.80	-4.68	-4.25	-6.74	-14.57
285	-22.44	-12.78	-7.63	-6.03	-4.72	-1.37	0.07	-1.06	-4.00	-4.67	-4.29	-6.95	-15.59
300	-20.48	-12.58	-7.49	-5.78	-4.36	-1.18	0.09	-1.14	-4.01	-4.57	-4.33	-7.30	-17.52
315	-19.13	-11.69	-7.12	-5.32	-3.88	-0.95	0.17	-1.15	-3.94	-4.48	-4.34	-7.39	-17.99
330	-18.18	-11.53	-6.46	-4.82	-3.38	-0.67	0.27	-1.06	-3.73	-4.36	-4.39	-7.83	-20.37
345	-17.53	-11.02	-6.28	-4.29	-2.72	-0.46	0.37	-0.87	-3.68	-4.35	-4.63	-8.03	-21.11
360	-17.09	-10.92	-5.88	-3.62	-2.34	-0.25	0.49	-0.83	-3.57	-4.55	-4.92	-8.80	-25.30
Avg.	-21.26	-11.81	-6.66	-4.59	-3.46	-1.00	0.14	-0.97	-3.89	-4.99	-4.92	-7.94	-16.34
Peak Value		0.576		Minimum Value -53.954									

Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-13.10	-14.28	-17.54	-29.15	-18.82	-13.33	-13.73	-17.91	-16.33	-15.10	-17.63	-19.46	-17.85
15	-11.89	-13.84	-15.90	-20.62	-18.59	-14.16	-15.03	-18.68	-14.68	-13.89	-17.29	-21.72	-19.09
30	-11.21	-11.96	-14.98	-18.04	-17.86	-16.27	-17.92	-18.61	-13.96	-13.29	-16.95	-22.56	-21.93
45	-10.06	-11.17	-12.92	-14.65	-15.48	-16.20	-17.96	-16.06	-11.44	-11.75	-16.42	-23.84	-27.82
60	-9.13	-9.99	-11.05	-11.07	-13.28	-15.04	-16.37	-13.31	-10.79	-11.36	-15.65	-23.14	-27.86
75	-8.24	-8.90	-9.00	-10.39	-10.88	-12.32	-11.96	-10.90	-9.06	-10.41	-15.28	-20.51	-23.45
90	-7.65	-8.18	-8.61	-8.93	-10.45	-11.69	-11.08	-9.38	-8.64	-10.19	-14.45	-19.66	-22.08
105	-7.36	-7.69	-8.00	-8.75	-10.05	-10.81	-9.48	-8.40	-8.08	-9.76	-14.04	-17.71	-19.67
120	-7.41	-7.68	-7.96	-8.67	-10.23	-10.98	-9.37	-8.00	-7.88	-9.80	-13.85	-17.54	-19.57
135	-7.95	-7.91	-8.47	-9.17	-11.11	-12.72	-9.74	-8.69	-7.99	-9.98	-14.05	-17.63	-19.90
150	-8.27	-8.41	-9.16	-10.51	-12.50	-15.27	-10.82	-9.56	-9.15	-10.56	-15.64	-19.36	-21.74
165	-9.59	-9.21	-9.58	-11.94	-14.57	-17.10	-14.54	-10.80	-9.73	-12.57	-17.86	-20.46	-22.89
180	-10.76	-10.67	-10.60	-12.45	-16.62	-22.43	-16.30	-14.91	-11.60	-15.13	-19.99	-23.61	-24.67
195	-11.33	-11.17	-11.69	-13.85	-18.12	-23.31	-26.99	-17.11	-16.42	-16.46	-32.16	-23.77	-23.54
210	-13.34	-12.38	-12.97	-16.37	-18.25	-20.10	-24.52	-39.65	-18.90	-19.85	-32.88	-21.82	-17.99
225	-13.85	-13.56	-15.28	-17.49	-17.39	-14.01	-17.10	-26.28	-23.20	-19.11	-22.27	-16.48	-16.79
240	-15.13	-14.49	-15.89	-23.09	-16.94	-12.83	-12.97	-14.67	-16.81	-17.49	-17.29	-15.42	-14.58
255	-15.47	-15.14	-17.54	-26.24	-15.90	-10.27	-10.35	-13.08	-15.41	-14.08	-14.97	-13.81	-12.77
270	-15.48	-15.07	-17.52	-38.05	-15.45	-9.61	-8.70	-10.91	-12.56	-13.17	-13.36	-12.80	-12.51
285	-15.22	-14.71	-16.73	-27.67	-14.30	-8.86	-7.84	-9.66	-12.29	-13.08	-13.33	-12.77	-12.27
300	-15.16	-14.60	-16.61	-21.95	-14.09	-8.57	-7.58	-9.97	-12.95	-13.32	-14.09	-13.45	-12.72
315	-15.04	-14.59	-16.28	-21.63	-14.53	-8.87	-8.43	-10.41	-13.46	-14.93	-15.29	-13.88	-13.03
330	-14.87	-14.78	-16.66	-22.54	-14.78	-9.63	-8.94	-12.97	-15.09	-16.12	-15.78	-15.07	-14.57
345	-14.51	-14.82	-17.40	-30.64	-16.16	-10.75	-11.39	-13.93	-16.95	-16.11	-17.50	-16.64	-15.20
360	-13.10	-14.28	-17.54	-29.15	-18.82	-13.33	-13.73	-17.91	-16.33	-15.10	-17.63	-19.46	-17.85
Avg.	-10.95	-11.20	-12.04	-13.69	-14.13	-12.33	-11.59	-12.07	-11.83	-12.98	-16.14	-17.20	-16.91
Peak Value		-7.365		Minimum Value		-39.648							

RHCP															
$\phi$ [deg]	$\Theta$ [deg]														
	0	15	30	45	60	75	90	105	120	135	150	165	180		
0	-14.73	-22.42	-11.47	-6.87	-4.31	-2.61	-2.61	-3.71	-5.65	-7.66	-9.46	-14.83	-23.67		
15	-13.18	-21.93	-11.46	-6.59	-3.89	-2.36	-2.37	-3.41	-4.95	-7.05	-9.03	-14.20	-23.77		
30	-12.49	-19.46	-11.46	-6.50	-3.80	-1.98	-2.02	-2.88	-4.65	-6.76	-9.04	-14.79	-26.78		
45	-11.52	-19.05	-11.73	-6.63	-3.72	-1.94	-1.58	-2.46	-3.83	-6.00	-8.82	-13.91	-34.02		
60	-10.74	-17.64	-12.63	-7.09	-3.98	-1.93	-1.60	-2.18	-3.68	-5.76	-8.15	-13.01	-30.55		
75	-10.37	-17.45	-13.50	-7.67	-4.44	-2.21	-1.59	-2.04	-3.22	-5.09	-7.74	-11.63	-24.36		
90	-10.20	-16.84	-14.66	-8.87	-5.22	-2.52	-1.84	-2.08	-3.20	-4.96	-6.98	-11.10	-21.59		
105	-10.11	-17.68	-17.12	-10.13	-6.38	-3.48	-2.41	-2.33	-3.22	-4.55	-6.39	-9.75	-17.69		
120	-10.73	-18.37	-19.04	-11.25	-6.81	-3.91	-2.60	-2.75	-3.38	-4.39	-6.05	-9.41	-16.06		
135	-11.48	-20.11	-19.50	-11.62	-7.40	-4.48	-3.06	-3.22	-3.47	-4.37	-5.50	-8.55	-15.86		
150	-12.02	-22.79	-18.55	-11.26	-7.56	-4.54	-3.28	-3.44	-3.96	-4.28	-5.69	-8.75	-15.61		
165	-13.55	-27.09	-17.87	-10.47	-7.22	-4.38	-3.41	-3.40	-3.97	-4.83	-5.78	-8.50	-14.71		
180	-14.75	-42.23	-16.60	-10.38	-6.82	-4.07	-3.13	-3.57	-4.34	-5.23	-5.70	-8.58	-16.87		
195	-14.83	-48.40	-15.86	-9.74	-6.24	-3.43	-2.80	-3.44	-4.91	-5.48	-6.64	-9.75	-17.06		
210	-16.74	-37.90	-14.96	-9.12	-5.90	-3.26	-2.74	-3.41	-5.04	-6.15	-6.93	-10.06	-21.21		
225	-16.54	-29.47	-14.17	-9.40	-5.83	-3.06	-2.59	-3.54	-5.47	-7.51	-7.85	-11.81	-23.27		
240	-18.02	-26.66	-14.73	-9.04	-5.72	-3.04	-2.70	-3.65	-6.29	-8.10	-8.93	-12.57	-32.76		
255	-18.69	-23.80	-14.03	-9.37	-5.91	-3.29	-2.92	-4.14	-6.96	-9.92	-10.06	-13.78	-32.90		
270	-19.45	-23.51	-13.92	-9.32	-6.00	-3.44	-3.12	-4.64	-7.83	-10.85	-10.98	-14.76	-28.82		
285	-20.20	-22.34	-13.31	-9.25	-6.24	-3.66	-3.47	-5.13	-8.55	-11.07	-11.02	-14.82	-24.64		
300	-20.80	-22.42	-13.08	-9.05	-6.10	-3.84	-3.81	-5.48	-8.74	-11.06	-10.70	-14.70	-22.01		
315	-20.09	-22.58	-12.74	-8.71	-5.99	-3.86	-3.91	-5.56	-8.64	-10.00	-10.23	-14.62	-21.85		
330	-18.59	-23.52	-12.04	-8.22	-5.57	-3.63	-3.77	-5.04	-7.90	-8.97	-10.13	-14.80	-21.88		
345	-17.57	-22.92	-11.88	-7.63	-4.89	-3.26	-3.20	-4.55	-6.65	-8.64	-9.63	-14.67	-22.24		
360	-14.73	-22.42	-11.47	-6.87	-4.31	-2.61	-2.61	-3.71	-5.65	-7.66	-9.46	-14.83	-23.67		
Avg.	-13.77	-21.45	-14.00	-8.85	-5.69	-3.36	-2.90	-3.64	-5.17	-6.68	-8.03	-11.71	-20.27		
Peak Value		-1.579		Minimum Value								-48.401			



LHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.57	-9.49	-6.89	-6.38	-6.47	-3.54	-2.13	-3.81	-7.19	-6.78	-6.46	-9.58	-18.22
15	-14.42	-9.42	-6.63	-6.06	-6.50	-3.79	-2.40	-4.16	-8.26	-7.52	-6.92	-10.34	-20.24
30	-14.12	-8.86	-6.49	-5.91	-6.49	-4.51	-2.98	-4.86	-8.85	-7.95	-7.44	-11.36	-23.03
45	-13.52	-8.67	-6.09	-5.51	-6.32	-4.71	-3.64	-5.49	-11.24	-9.69	-8.44	-12.23	-28.39
60	-12.76	-8.12	-5.64	-4.70	-6.04	-4.80	-3.77	-5.86	-12.16	-10.37	-9.17	-13.53	-31.19
75	-11.66	-7.50	-4.88	-4.48	-5.11	-4.37	-3.52	-5.85	-13.33	-12.90	-10.11	-15.61	-28.46
90	-10.83	-7.04	-4.69	-3.85	-5.03	-4.25	-3.34	-5.31	-13.01	-14.04	-11.20	-16.14	-27.96
105	-10.40	-6.53	-4.29	-3.70	-4.41	-3.53	-2.51	-4.50	-11.57	-16.46	-11.95	-16.81	-24.66
120	-10.02	-6.43	-4.18	-3.53	-4.32	-3.35	-2.27	-3.67	-10.07	-16.31	-12.33	-16.43	-22.93
135	-10.39	-6.42	-4.30	-3.61	-4.36	-3.14	-1.90	-3.12	-9.28	-16.06	-11.61	-14.42	-21.26
150	-10.57	-6.58	-4.48	-3.97	-4.64	-3.28	-1.61	-3.02	-8.66	-14.33	-10.76	-12.98	-18.77
165	-11.74	-6.98	-4.64	-4.45	-5.17	-3.35	-1.72	-2.85	-8.31	-12.35	-9.49	-11.79	-16.56
180	-12.89	-7.82	-5.07	-4.70	-5.99	-3.74	-1.73	-3.07	-8.18	-10.43	-8.44	-9.96	-14.20
195	-13.88	-8.15	-5.66	-5.39	-6.94	-4.64	-2.08	-3.04	-7.76	-9.81	-7.09	-8.55	-13.33
210	-15.98	-9.14	-6.19	-6.36	-7.93	-4.87	-2.23	-3.25	-7.54	-8.50	-6.61	-7.99	-11.56
225	-17.14	-9.84	-7.17	-7.17	-9.39	-5.32	-2.32	-3.30	-7.08	-6.79	-5.87	-6.87	-11.28
240	-18.09	-10.61	-7.74	-8.02	-9.97	-5.33	-2.33	-3.04	-6.10	-6.39	-5.21	-6.83	-10.86
255	-17.63	-11.30	-8.43	-8.64	-10.21	-4.72	-2.07	-3.04	-5.93	-5.44	-4.94	-6.58	-10.38
270	-16.93	-11.32	-8.51	-8.88	-9.77	-4.26	-1.74	-2.73	-5.12	-5.13	-4.66	-6.36	-10.47
285	-15.81	-10.93	-8.32	-8.79	-8.65	-3.68	-1.37	-2.34	-4.98	-5.06	-4.69	-6.54	-10.78
300	-15.07	-10.75	-8.22	-8.35	-7.97	-3.12	-1.08	-2.31	-5.03	-4.98	-4.91	-7.05	-11.88
315	-14.72	-10.13	-7.84	-7.81	-7.15	-2.82	-1.10	-2.35	-5.06	-5.40	-5.19	-7.24	-12.29
330	-14.69	-10.04	-7.32	-7.33	-6.68	-2.74	-1.13	-2.84	-5.34	-5.79	-5.33	-7.88	-14.25
345	-14.49	-9.71	-7.24	-6.98	-6.29	-2.92	-1.66	-2.94	-6.34	-5.94	-5.97	-8.39	-14.95
360	-14.57	-9.49	-6.89	-6.38	-6.47	-3.54	-2.13	-3.81	-7.19	-6.78	-6.46	-9.58	-18.22
Avg.	-13.39	-8.71	-6.23	-5.85	-6.58	-4.06	-2.30	-3.67	-7.71	-8.17	-7.23	-9.50	-14.66
Peak Value		-1.083		Minimum Value -31.186									

AR													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	40.69	3.99	11.78	31.00	18.12	25.40	31.18	45.68	21.11	25.93	15.35	10.66	10.35
15	22.99	4.19	11.33	30.40	16.51	21.74	56.01	27.28	14.49	31.35	18.34	13.20	13.97
30	20.57	5.28	11.10	29.36	16.28	16.79	25.16	18.87	12.51	23.25	20.72	14.18	13.47
45	18.81	5.43	10.07	23.81	16.54	16.03	18.54	15.26	7.91	13.59	33.11	20.29	10.09
60	18.72	6.04	8.36	17.28	18.59	15.72	18.09	13.61	6.89	11.72	24.69	30.36	28.75
75	22.62	5.72	6.76	14.81	28.36	18.16	19.11	13.31	5.61	7.51	17.37	12.94	12.69
90	28.91	5.83	5.71	11.03	39.61	20.08	21.31	14.71	5.83	6.38	12.46	10.98	9.08
105	35.30	4.94	4.04	9.01	18.96	52.14	44.41	18.11	7.00	4.51	10.19	8.29	8.37
120	27.84	4.49	3.17	7.59	16.93	29.97	34.47	25.49	8.70	4.50	9.20	8.32	8.49
135	24.06	3.65	3.05	7.32	15.22	22.29	23.48	45.54	9.82	4.63	9.42	9.75	10.41
150	21.58	2.71	3.48	8.03	15.55	22.79	20.37	32.24	11.56	5.65	10.93	12.45	14.92
165	19.67	1.72	3.85	9.54	18.62	24.58	20.26	29.97	12.23	7.79	13.53	14.56	19.48
180	19.43	0.33	4.72	10.01	26.46	34.40	21.89	30.86	13.25	10.73	16.12	22.03	16.34
195	25.28	0.17	5.55	12.19	27.93	23.15	27.70	32.65	15.78	12.24	31.69	23.27	13.50
210	27.19	0.63	6.64	16.06	18.67	20.69	30.69	40.94	16.88	17.44	34.60	18.53	5.95
225	29.35	1.82	8.34	17.89	13.88	17.79	36.07	37.11	20.67	27.65	18.90	11.16	4.46
240	48.49	2.76	8.36	24.59	12.41	17.63	33.35	29.11	39.09	20.18	13.51	9.93	1.40
255	24.32	4.20	10.13	27.53	12.31	21.73	26.27	24.00	24.52	11.95	10.86	8.14	1.30
270	16.85	4.36	10.41	31.97	13.38	26.56	22.02	19.23	16.23	9.96	9.15	6.95	2.11
285	12.14	4.79	11.08	31.57	17.21	57.87	18.37	15.96	13.88	9.55	9.13	7.06	3.57
300	9.94	4.64	11.27	27.89	19.38	27.60	16.15	14.89	13.53	9.46	9.85	7.66	5.60
315	10.46	4.23	11.23	25.70	23.58	24.45	15.91	14.76	13.85	11.73	10.99	7.94	6.01
330	13.13	3.73	11.53	25.83	23.91	25.89	16.40	17.96	16.69	14.83	11.39	8.44	7.68
345	15.11	3.86	11.67	28.56	21.93	34.04	21.06	20.71	35.11	16.23	13.65	9.20	8.04
360	40.69	3.99	11.78	31.00	18.12	25.40	31.18	45.68	21.11	25.93	15.35	10.66	10.35
Avg.	35.58	3.84	8.87	25.87	26.94	44.97	42.46	35.96	26.91	20.69	24.65	18.72	16.38
Peak Value		#####		Minimum Value 0.169									



516.3 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-11.60	-9.27	-5.55	-3.61	-2.27	-0.06	0.67	-0.69	-3.29	-4.11	-4.61	-8.29	-17.02
15	-10.70	-9.15	-5.43	-3.38	-2.14	-0.03	0.63	-0.69	-3.28	-4.10	-4.77	-8.64	-18.54
30	-10.17	-8.48	-5.25	-3.15	-1.94	-0.07	0.56	-0.69	-3.17	-4.24	-5.06	-9.31	-21.66
45	-9.26	-8.25	-5.02	-2.98	-1.84	-0.13	0.53	-0.64	-2.96	-4.34	-5.33	-9.84	-25.55
60	-8.52	-7.67	-4.73	-2.85	-1.79	-0.15	0.53	-0.58	-2.97	-4.40	-5.53	-10.08	-27.77
75	-7.80	-7.09	-4.48	-2.75	-1.86	-0.20	0.53	-0.45	-2.86	-4.42	-5.64	-10.11	-25.08
90	-7.42	-6.58	-4.25	-2.73	-1.98	-0.32	0.50	-0.33	-2.69	-4.38	-5.57	-9.75	-20.28
105	-7.20	-6.22	-4.05	-2.78	-2.29	-0.54	0.57	-0.22	-2.57	-4.26	-5.24	-8.93	-17.07
120	-7.24	-6.16	-3.98	-2.80	-2.41	-0.62	0.58	-0.15	-2.48	-4.14	-5.06	-8.49	-15.76
135	-7.58	-6.21	-4.11	-2.92	-2.68	-0.75	0.58	-0.18	-2.46	-4.04	-4.72	-7.83	-14.47
150	-8.16	-6.45	-4.13	-3.22	-2.89	-0.84	0.58	-0.17	-2.53	-3.94	-4.39	-7.24	-13.75
165	-9.46	-6.91	-4.41	-3.35	-3.15	-0.93	0.59	-0.15	-2.65	-4.10	-4.21	-6.78	-12.89
180	-9.99	-7.74	-4.74	-3.67	-3.37	-0.97	0.59	-0.17	-2.80	-4.06	-3.97	-6.39	-12.39
195	-11.23	-8.15	-5.13	-4.04	-3.66	-1.04	0.59	-0.21	-3.04	-4.09	-3.84	-6.09	-11.87
210	-12.58	-8.96	-5.64	-4.47	-3.91	-1.09	0.56	-0.23	-3.05	-4.13	-3.75	-5.91	-11.44
225	-13.78	-9.83	-6.24	-4.98	-4.23	-1.11	0.58	-0.28	-3.11	-4.16	-3.69	-5.76	-10.98
240	-14.62	-10.51	-6.79	-5.46	-4.47	-1.11	0.55	-0.32	-3.16	-4.16	-3.67	-5.67	-10.56
255	-14.96	-11.03	-7.32	-5.99	-4.66	-1.00	0.64	-0.47	-3.34	-4.22	-3.76	-5.79	-10.64
270	-14.74	-11.02	-7.37	-6.12	-4.59	-0.91	0.69	-0.40	-3.28	-4.12	-3.71	-5.70	-10.34
285	-14.32	-10.74	-7.20	-6.02	-4.38	-0.71	0.77	-0.44	-3.30	-4.07	-3.76	-5.89	-10.54
300	-13.97	-10.38	-6.94	-5.65	-4.00	-0.49	0.82	-0.54	-3.37	-4.07	-3.81	-6.09	-11.17
315	-13.52	-10.02	-6.54	-5.20	-3.59	-0.32	0.82	-0.59	-3.44	-4.11	-3.95	-6.41	-11.74
330	-13.22	-9.82	-6.23	-4.71	-3.13	-0.19	0.80	-0.69	-3.44	-4.05	-4.03	-6.83	-12.75
345	-12.70	-9.59	-5.90	-4.23	-2.79	-0.12	0.67	-0.63	-3.43	-4.04	-4.21	-7.34	-14.04
360	-11.60	-9.27	-5.55	-3.61	-2.27	-0.06	0.67	-0.69	-3.29	-4.11	-4.61	-8.29	-17.02
Avg.	-10.42	-8.47	-5.52	-4.07	-3.16	-0.73	0.44	-0.59	-3.19	-4.33	-4.55	-7.38	-13.57
Peak Value		0.817		Minimum Value -27.767									

Horizontal													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-17.30	-10.99	-5.85	-3.62	-2.37	-0.27	0.51	-0.77	-3.51	-4.45	-4.81	-8.62	-24.16
15	-17.35	-10.99	-5.76	-3.47	-2.23	-0.20	0.50	-0.76	-3.53	-4.57	-5.00	-8.91	-27.54
30	-17.41	-11.09	-5.75	-3.31	-2.06	-0.19	0.49	-0.77	-3.56	-4.83	-5.33	-9.50	-30.47
45	-17.83	-11.38	-5.80	-3.29	-2.04	-0.24	0.47	-0.78	-3.67	-5.12	-5.67	-10.00	-34.78
60	-18.50	-11.60	-5.90	-3.40	-2.12	-0.30	0.43	-0.83	-3.80	-5.40	-5.98	-10.30	-46.44
75	-19.43	-11.81	-6.09	-3.59	-2.38	-0.45	0.33	-0.87	-3.94	-5.61	-6.15	-10.40	-32.34
90	-22.17	-11.86	-6.27	-3.83	-2.67	-0.66	0.19	-0.92	-4.00	-5.77	-6.20	-10.25	-26.07
105	-23.26	-11.66	-6.31	-4.08	-3.11	-0.97	0.16	-0.94	-4.04	-5.71	-5.88	-9.49	-20.02
120	-25.57	-11.52	-6.30	-4.12	-3.21	-1.04	0.13	-0.92	-4.02	-5.60	-5.71	-9.09	-18.46
135	-27.51	-11.20	-6.14	-4.13	-3.36	-1.10	0.17	-0.82	-3.91	-5.38	-5.28	-8.34	-16.23
150	-28.65	-10.94	-5.99	-4.11	-3.39	-1.06	0.27	-0.69	-3.77	-5.06	-4.83	-7.59	-14.57
165	-29.32	-10.84	-5.98	-4.14	-3.48	-1.03	0.40	-0.53	-3.61	-4.80	-4.41	-6.97	-13.35
180	-31.45	-10.90	-6.08	-4.28	-3.58	-1.00	0.51	-0.39	-3.42	-4.56	-4.08	-6.47	-12.61
195	-35.08	-11.21	-6.22	-4.51	-3.82	-1.05	0.58	-0.29	-3.24	-4.37	-3.87	-6.15	-12.17
210	-46.66	-11.62	-6.54	-4.83	-4.08	-1.16	0.54	-0.24	-3.16	-4.26	-3.75	-6.02	-12.12
225	-35.81	-12.24	-6.95	-5.22	-4.45	-1.29	0.49	-0.29	-3.16	-4.26	-3.76	-6.02	-12.32
240	-31.94	-12.79	-7.36	-5.59	-4.74	-1.43	0.33	-0.42	-3.28	-4.37	-3.87	-6.16	-12.81
255	-27.64	-13.30	-7.80	-6.02	-5.00	-1.57	0.26	-0.73	-3.63	-4.59	-4.11	-6.55	-14.10
270	-24.87	-13.33	-7.84	-6.12	-4.98	-1.56	0.13	-0.83	-3.76	-4.64	-4.18	-6.68	-14.53
285	-22.50	-13.04	-7.74	-6.05	-4.82	-1.44	0.10	-1.00	-3.90	-4.65	-4.27	-6.92	-15.67
300	-20.64	-12.58	-7.47	-5.76	-4.45	-1.23	0.11	-1.07	-3.95	-4.59	-4.28	-7.09	-16.68
315	-19.35	-12.05	-7.05	-5.31	-3.97	-0.98	0.19	-1.07	-3.89	-4.46	-4.27	-7.29	-17.77
330	-18.35	-11.54	-6.65	-4.78	-3.43	-0.71	0.31	-1.02	-3.74	-4.34	-4.32	-7.54	-19.14
345	-17.77	-11.19	-6.23	-4.26	-2.98	-0.51	0.40	-0.84	-3.61	-4.30	-4.43	-7.88	-20.66
360	-17.30	-10.99	-5.85	-3.62	-2.37	-0.27	0.51	-0.77	-3.51	-4.45	-4.81	-8.62	-24.16
Avg.	-21.45	-11.85	-6.63	-4.58	-3.52	-1.05	0.16	-0.91	-3.84	-4.97	-4.87	-7.87	-16.29
Peak Value		0.582		Minimum Value -46.659									

Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-12.96	-14.11	-17.28	-28.91	-18.88	-13.29	-13.69	-17.71	-16.39	-15.33	-18.09	-19.66	-17.96
15	-11.76	-13.77	-16.74	-20.21	-19.04	-14.20	-14.91	-18.67	-15.71	-13.97	-17.66	-20.84	-19.13
30	-11.08	-11.94	-14.90	-17.67	-17.59	-15.70	-17.76	-18.20	-13.75	-13.27	-17.18	-23.14	-22.28
45	-9.91	-11.14	-12.88	-14.53	-15.30	-15.96	-17.62	-15.57	-11.19	-12.19	-16.57	-24.34	-26.11
60	-8.98	-9.93	-10.98	-12.05	-13.11	-14.75	-16.06	-13.10	-10.56	-11.26	-15.62	-23.21	-27.83
75	-8.11	-8.88	-9.57	-10.27	-11.39	-12.87	-12.93	-10.81	-9.41	-10.63	-15.21	-22.05	-25.98
90	-7.57	-8.11	-8.56	-9.23	-10.33	-11.51	-11.03	-9.29	-8.52	-10.02	-14.31	-19.39	-21.61
105	-7.31	-7.69	-7.97	-8.64	-9.95	-10.75	-9.88	-8.38	-7.99	-9.75	-13.84	-18.13	-20.15
120	-7.31	-7.65	-7.82	-8.60	-10.17	-10.96	-9.45	-8.03	-7.73	-9.57	-13.66	-17.41	-19.10
135	-7.62	-7.86	-8.38	-9.08	-11.12	-11.87	-9.86	-8.80	-7.92	-9.80	-13.83	-17.41	-19.25
150	-8.20	-8.36	-8.70	-10.51	-12.54	-13.86	-11.00	-9.68	-8.56	-10.38	-14.61	-18.25	-21.43
165	-9.50	-9.16	-9.57	-11.15	-14.53	-17.28	-13.15	-10.99	-9.70	-12.40	-17.63	-20.37	-22.86
180	-10.02	-10.60	-10.51	-12.46	-16.65	-22.97	-16.94	-13.20	-11.56	-13.70	-19.98	-23.54	-25.54
195	-11.25	-11.11	-11.66	-13.93	-18.03	-27.08	-27.24	-17.49	-16.34	-16.16	-25.90	-25.21	-23.62
210	-12.59	-12.35	-12.95	-15.56	-18.20	-19.43	-23.62	-27.67	-19.06	-19.44	-33.16	-21.82	-19.83
225	-13.81	-13.54	-14.49	-17.63	-17.36	-15.11	-16.41	-25.04	-22.49	-20.43	-21.98	-18.06	-16.71
240	-14.70	-14.40	-15.90	-20.88	-16.83	-12.60	-12.56	-16.60	-18.84	-17.48	-17.31	-15.35	-14.51
255	-15.20	-14.92	-17.11	-27.04	-15.86	-10.10	-10.05	-12.85	-15.28	-15.08	-14.86	-13.72	-13.25
270	-15.18	-14.88	-17.32	-37.72	-15.30	-9.50	-8.47	-10.67	-13.13	-13.56	-13.62	-12.66	-12.42
285	-15.04	-14.59	-16.55	-26.95	-14.51	-8.77	-7.64	-9.68	-12.23	-13.13	-13.34	-12.66	-12.13
300	-15.03	-14.38	-16.31	-21.74	-14.05	-8.53	-7.42	-9.94	-12.41	-13.55	-13.67	-12.94	-12.61
315	-14.83	-14.30	-16.12	-21.36	-14.29	-8.82	-7.89	-10.36	-13.58	-15.25	-15.39	-13.80	-12.98
330	-14.81	-14.66	-16.59	-22.63	-14.96	-9.60	-8.89	-11.93	-15.20	-15.89	-16.02	-15.03	-13.88
345	-14.32	-14.72	-17.27	-26.06	-16.42	-10.83	-11.44	-14.03	-17.22	-16.45	-17.31	-16.68	-15.10
360	-12.96	-14.11	-17.28	-28.91	-18.88	-13.29	-13.69	-17.71	-16.39	-15.33	-18.09	-19.66	-17.96
Avg.	-10.77	-11.14	-11.98	-13.65	-14.13	-12.24	-11.49	-12.00	-11.78	-12.98	-16.04	-17.16	-16.90
Peak Value		-7.309											
Minimum Value		-37.718											

RHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.76	-23.17	-11.53	-6.89	-4.32	-2.57	-2.55	-3.61	-5.60	-7.51	-9.31	-14.47	-24.18
15	-13.30	-22.47	-11.44	-6.70	-4.10	-2.33	-2.33	-3.30	-5.25	-6.86	-8.88	-14.44	-24.34
30	-12.45	-20.00	-11.53	-6.52	-3.80	-2.09	-1.94	-2.78	-4.53	-6.65	-8.84	-14.17	-28.02
45	-11.40	-19.21	-11.80	-6.64	-3.75	-1.94	-1.54	-2.34	-3.68	-6.17	-8.52	-13.69	-32.80
60	-10.66	-18.11	-12.40	-6.99	-3.88	-1.93	-1.49	-2.11	-3.54	-5.65	-8.01	-12.74	-30.74
75	-10.08	-17.22	-13.52	-7.76	-4.37	-2.11	-1.48	-1.92	-3.27	-5.27	-7.59	-11.99	-25.70
90	-10.10	-16.95	-15.07	-8.64	-5.04	-2.55	-1.82	-1.99	-3.11	-4.87	-6.96	-10.92	-20.96
105	-10.05	-17.86	-17.65	-10.29	-6.48	-3.51	-2.11	-2.24	-3.15	-4.57	-6.29	-9.82	-17.66
120	-10.44	-18.50	-19.28	-11.25	-6.92	-3.87	-2.59	-2.71	-3.24	-4.38	-5.97	-9.28	-16.48
135	-11.09	-20.23	-20.10	-11.85	-7.56	-4.37	-3.05	-3.17	-3.43	-4.30	-5.62	-8.74	-15.35
150	-11.89	-22.93	-19.55	-11.38	-7.66	-4.58	-3.32	-3.36	-3.70	-4.31	-5.43	-8.42	-15.37
165	-13.41	-27.18	-18.01	-11.05	-7.35	-4.46	-3.38	-3.43	-4.00	-4.78	-5.72	-8.43	-14.95
180	-13.80	-38.41	-16.84	-10.51	-6.88	-4.08	-3.13	-3.40	-4.29	-4.97	-5.81	-8.72	-15.88
195	-14.82	-38.74	-15.69	-9.88	-6.34	-3.64	-2.76	-3.39	-4.83	-5.41	-6.24	-9.19	-17.17
210	-15.71	-31.66	-15.07	-9.50	-6.01	-3.30	-2.65	-3.29	-5.00	-6.09	-6.92	-10.07	-19.47
225	-16.38	-28.28	-14.63	-9.31	-5.83	-3.12	-2.51	-3.35	-5.35	-6.97	-7.84	-11.16	-23.33
240	-17.21	-25.65	-14.44	-9.31	-5.83	-3.07	-2.60	-3.47	-5.92	-8.10	-8.93	-12.41	-30.80
255	-18.08	-24.78	-14.35	-9.37	-6.00	-3.31	-2.72	-4.03	-6.82	-9.41	-10.10	-13.70	-34.36
270	-18.88	-22.87	-13.82	-9.35	-6.04	-3.43	-3.02	-4.35	-7.53	-10.43	-10.74	-14.56	-28.23
285	-19.79	-22.01	-13.29	-9.24	-6.14	-3.66	-3.40	-4.88	-8.29	-11.05	-10.95	-14.58	-23.87
300	-20.54	-22.01	-12.98	-9.02	-6.14	-3.82	-3.74	-5.37	-8.74	-10.96	-10.75	-14.48	-23.07
315	-19.81	-22.39	-12.60	-8.70	-6.00	-3.82	-3.84	-5.47	-8.57	-9.92	-10.08	-14.27	-21.61
330	-19.33	-23.47	-12.24	-8.19	-5.60	-3.59	-3.69	-5.20	-7.87	-9.37	-9.93	-14.27	-21.54
345	-17.49	-23.29	-11.82	-7.66	-5.13	-3.25	-3.11	-4.49	-6.53	-8.56	-9.62	-14.31	-22.07
360	-14.76	-23.17	-11.53	-6.89	-4.32	-2.57	-2.55	-3.61	-5.60	-7.51	-9.31	-14.47	-24.18
Avg.	-13.57	-21.54	-14.06	-8.90	-5.73	-3.37	-2.82	-3.55	-5.09	-6.61	-7.94	-11.57	-20.11
Peak Value		-1.484											
Minimum Value		-38.737											

LHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.47	-9.45	-6.81	-6.36	-6.52	-3.64	-2.15	-3.79	-7.14	-6.76	-6.41	-9.49	-17.95
15	-14.16	-9.36	-6.68	-6.10	-6.55	-3.90	-2.44	-4.14	-7.64	-7.37	-6.90	-9.97	-19.87
30	-14.07	-8.80	-6.42	-5.83	-6.52	-4.38	-3.03	-4.87	-8.87	-7.96	-7.41	-11.03	-22.81
45	-13.36	-8.61	-6.05	-5.42	-6.31	-4.80	-3.68	-5.53	-11.17	-8.98	-8.17	-12.15	-26.46
60	-12.62	-8.09	-5.54	-4.96	-5.96	-4.88	-3.77	-5.87	-12.12	-10.40	-9.16	-13.48	-30.81
75	-11.70	-7.54	-5.05	-4.39	-5.44	-4.71	-3.78	-5.87	-13.33	-11.94	-10.07	-14.66	-33.87
90	-10.79	-7.00	-4.63	-4.01	-4.94	-4.29	-3.32	-5.29	-12.97	-14.11	-11.22	-16.05	-28.66
105	-10.37	-6.53	-4.25	-3.62	-4.38	-3.59	-2.80	-4.50	-11.60	-15.88	-11.90	-16.27	-26.04
120	-10.08	-6.42	-4.11	-3.46	-4.31	-3.40	-2.27	-3.65	-10.43	-16.85	-12.31	-16.30	-23.90
135	-10.14	-6.38	-4.22	-3.52	-4.39	-3.22	-1.90	-3.21	-9.43	-16.33	-12.00	-15.07	-21.87
150	-10.55	-6.55	-4.26	-3.93	-4.66	-3.23	-1.69	-3.01	-8.79	-14.86	-11.13	-13.45	-18.82
165	-11.69	-6.95	-4.60	-4.16	-5.23	-3.48	-1.64	-2.92	-8.38	-12.48	-9.53	-11.78	-17.13
180	-12.32	-7.74	-5.02	-4.67	-5.94	-3.89	-1.81	-2.97	-8.19	-11.29	-8.59	-10.20	-14.97
195	-13.73	-8.15	-5.53	-5.35	-7.03	-4.50	-2.10	-3.05	-7.74	-9.89	-7.56	-9.02	-13.39
210	-15.48	-8.98	-6.17	-6.11	-8.08	-5.08	-2.27	-3.18	-7.48	-8.54	-6.60	-8.01	-12.18
225	-17.25	-9.89	-6.92	-6.98	-9.34	-5.43	-2.36	-3.23	-7.04	-7.38	-5.80	-7.23	-11.24
240	-18.09	-10.65	-7.61	-7.77	-10.20	-5.50	-2.33	-3.19	-6.44	-6.40	-5.21	-6.70	-10.60
255	-17.87	-11.21	-8.28	-8.66	-10.42	-4.84	-2.04	-3.00	-5.92	-5.78	-4.91	-6.55	-10.66
270	-16.85	-11.32	-8.49	-8.91	-10.08	-4.48	-1.71	-2.64	-5.33	-5.28	-4.67	-6.31	-10.41
285	-15.77	-11.07	-8.43	-8.82	-9.16	-3.78	-1.32	-2.38	-4.96	-5.04	-4.68	-6.53	-10.74
300	-15.06	-10.69	-8.18	-8.33	-8.10	-3.20	-1.06	-2.27	-4.86	-5.06	-4.79	-6.76	-11.46
315	-14.68	-10.28	-7.78	-7.78	-7.29	-2.88	-1.00	-2.30	-5.04	-5.43	-5.16	-7.19	-12.21
330	-14.44	-10.01	-7.49	-7.30	-6.76	-2.83	-1.11	-2.58	-5.39	-5.56	-5.32	-7.69	-13.37
345	-14.44	-9.78	-7.19	-6.86	-6.59	-3.02	-1.68	-2.94	-6.34	-5.94	-5.69	-8.31	-14.78
360	-14.47	-9.45	-6.81	-6.36	-6.52	-3.64	-2.15	-3.79	-7.14	-6.76	-6.41	-9.49	-17.95
Avg.	-13.29	-8.69	-6.17	-5.80	-6.65	-4.15	-2.32	-3.65	-7.71	-8.22	-7.22	-9.47	-14.66
Peak Value	-1.003	Minimum Value -33.871											

AR													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	35.39	3.63	11.53	30.43	17.97	24.22	32.68	39.73	21.04	27.21	15.62	11.07	9.26
15	26.16	3.90	11.46	29.28	17.06	20.87	43.50	26.35	17.29	30.50	18.92	11.97	11.98
30	20.65	4.91	10.87	28.12	16.17	17.64	24.11	18.43	12.22	22.41	21.72	14.97	10.71
45	18.96	5.28	9.91	23.08	16.69	15.73	18.22	14.83	7.82	15.91	33.90	21.07	9.13
60	18.98	5.67	8.51	18.67	18.47	15.48	17.68	13.43	6.79	11.46	23.60	27.47	47.64
75	20.62	5.91	6.90	14.36	24.23	16.56	17.63	13.01	5.64	8.72	16.95	16.34	7.16
90	28.07	5.72	5.39	11.69	45.32	19.99	21.30	14.52	5.79	6.26	12.37	10.84	7.61
105	34.73	4.84	3.77	8.73	18.42	46.68	28.09	17.77	6.92	4.85	10.11	8.99	6.97
120	33.57	4.42	3.06	7.52	16.52	31.46	34.76	25.34	8.14	4.21	9.13	8.33	7.89
135	25.21	3.58	2.82	7.01	14.87	23.62	23.59	51.50	9.57	4.44	9.08	9.13	8.90
150	22.29	2.65	3.02	7.86	15.32	22.18	20.56	33.75	10.91	5.31	9.99	11.02	14.15
165	20.15	1.70	3.77	8.47	18.29	25.00	19.98	30.59	12.15	7.61	13.31	14.42	18.07
180	21.44	0.51	4.55	9.80	25.37	39.21	22.37	32.23	13.12	9.15	16.00	21.42	25.59
195	24.10	0.51	5.57	11.87	28.07	26.06	28.41	34.12	15.62	11.97	22.40	40.19	13.38
210	37.61	1.28	6.53	14.30	18.54	19.83	33.05	44.26	16.95	17.06	34.50	18.56	8.03
225	26.01	2.10	7.60	17.51	14.00	17.56	41.13	43.13	20.25	32.49	18.61	13.06	4.41
240	25.92	3.12	8.54	21.07	12.16	17.14	36.34	35.89	30.48	20.25	13.53	9.96	1.70
255	38.19	3.70	9.47	27.75	12.06	21.12	28.18	24.56	25.72	13.71	10.75	8.18	1.14
270	18.69	4.71	10.52	31.89	12.82	24.35	22.47	20.15	17.99	10.81	9.47	7.09	2.25
285	12.88	5.07	11.30	32.24	15.27	43.09	18.49	16.92	14.48	9.56	9.21	7.27	3.90
300	10.31	4.84	11.40	28.10	19.00	28.87	16.29	15.08	13.17	9.70	9.62	7.60	4.67
315	10.84	4.40	11.37	25.55	22.62	25.33	15.82	14.87	13.95	11.95	11.19	8.26	6.13
330	11.24	3.74	11.48	25.81	23.50	27.13	16.63	16.49	16.97	13.31	11.72	8.84	7.16
345	15.20	3.72	11.69	26.70	21.56	37.75	21.76	21.00	39.51	16.52	13.04	9.58	8.04
360	35.39	3.63	11.53	30.43	17.97	24.22	32.68	39.73	21.04	27.21	15.62	11.07	9.26
Avg.	29.91	3.82	8.81	25.49	31.66	35.40	33.03	39.26	26.47	22.04	24.00	26.67	33.70
Peak Value	#####	Minimum Value 0.509											

517.6 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-9.71	-7.69	-4.11	-2.21	-0.93	1.29	2.06	0.73	-1.83	-2.64	-3.14	-6.72	-14.83
15	-8.74	-7.57	-3.99	-1.97	-0.80	1.31	2.04	0.72	-1.80	-2.60	-3.27	-7.09	-16.68
30	-8.22	-6.83	-3.78	-1.71	-0.59	1.28	1.95	0.74	-1.67	-2.75	-3.58	-7.74	-19.56
45	-7.34	-6.57	-3.52	-1.54	-0.44	1.22	1.92	0.79	-1.43	-2.79	-3.86	-8.24	-23.42
60	-6.54	-5.90	-3.20	-1.36	-0.40	1.21	1.92	0.88	-1.42	-2.83	-4.02	-8.53	-25.29
75	-5.86	-5.27	-2.89	-1.22	-0.41	1.18	1.94	1.01	-1.25	-2.83	-4.12	-8.55	-22.20
90	-5.43	-4.77	-2.60	-1.19	-0.55	1.07	1.94	1.16	-1.09	-2.76	-4.00	-8.16	-18.25
105	-5.18	-4.42	-2.40	-1.23	-0.86	0.84	2.00	1.30	-0.95	-2.63	-3.70	-7.35	-15.12
120	-5.26	-4.33	-2.32	-1.25	-0.99	0.76	2.02	1.38	-0.85	-2.55	-3.52	-6.95	-13.91
135	-5.53	-4.43	-2.47	-1.38	-1.27	0.60	2.00	1.32	-0.87	-2.43	-3.19	-6.28	-12.77
150	-6.14	-4.70	-2.53	-1.71	-1.55	0.45	1.98	1.30	-0.94	-2.41	-2.93	-5.75	-12.20
165	-7.45	-5.16	-2.82	-1.88	-1.83	0.35	1.98	1.30	-1.11	-2.61	-2.79	-5.32	-11.41
180	-8.00	-6.07	-3.18	-2.21	-2.08	0.30	1.96	1.29	-1.28	-2.61	-2.57	-4.95	-10.93
195	-9.18	-6.49	-3.62	-2.61	-2.37	0.23	1.96	1.24	-1.58	-2.68	-2.45	-4.69	-10.51
210	-10.47	-7.34	-4.17	-3.07	-2.65	0.20	1.93	1.20	-1.59	-2.75	-2.38	-4.50	-9.96
225	-11.68	-8.21	-4.78	-3.62	-2.96	0.19	1.98	1.17	-1.67	-2.78	-2.30	-4.33	-9.41
240	-12.54	-8.92	-5.37	-4.06	-3.18	0.23	1.98	1.14	-1.72	-2.74	-2.27	-4.22	-8.97
255	-12.93	-9.41	-5.87	-4.65	-3.36	0.40	2.10	1.02	-1.85	-2.78	-2.33	-4.31	-8.81
270	-12.68	-9.33	-5.90	-4.75	-3.30	0.50	2.19	1.10	-1.77	-2.67	-2.26	-4.18	-8.56
285	-12.33	-9.06	-5.72	-4.62	-3.06	0.72	2.27	1.08	-1.82	-2.66	-2.29	-4.30	-8.63
300	-11.93	-8.67	-5.44	-4.25	-2.67	0.94	2.32	0.95	-1.87	-2.62	-2.33	-4.52	-9.23
315	-11.55	-8.34	-5.04	-3.79	-2.23	1.09	2.31	0.90	-1.96	-2.67	-2.49	-4.84	-9.76
330	-11.31	-8.15	-4.74	-3.28	-1.80	1.21	2.27	0.79	-1.98	-2.61	-2.56	-5.26	-10.77
345	-10.80	-7.95	-4.43	-2.84	-1.43	1.25	2.10	0.81	-1.96	-2.61	-2.77	-5.79	-12.05
360	-9.71	-7.69	-4.11	-2.21	-0.93	1.29	2.06	0.73	-1.83	-2.64	-3.14	-6.72	-14.83
Avg.	-8.42	-6.75	-3.98	-2.62	-1.80	0.63	1.87	0.88	-1.67	-2.84	-3.10	-5.87	-11.83
Peak Value		2.315		Minimum Value		-25.288							

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.11	-9.64	-4.46	-2.23	-1.04	1.05	1.87	0.63	-2.07	-3.01	-3.34	-7.08	-21.80
15	-16.15	-9.66	-4.39	-2.08	-0.90	1.12	1.90	0.64	-2.09	-3.14	-3.50	-7.37	-25.10
30	-16.27	-9.80	-4.36	-1.90	-0.73	1.13	1.87	0.64	-2.14	-3.41	-3.88	-7.92	-27.37
45	-16.72	-10.06	-4.41	-1.91	-0.68	1.07	1.84	0.62	-2.25	-3.69	-4.23	-8.38	-31.20
60	-17.36	-10.26	-4.55	-2.00	-0.79	1.02	1.80	0.59	-2.40	-3.98	-4.51	-8.75	-36.46
75	-18.52	-10.46	-4.70	-2.20	-1.01	0.88	1.71	0.53	-2.51	-4.21	-4.71	-8.88	-30.26
90	-21.31	-10.55	-4.88	-2.44	-1.35	0.66	1.58	0.49	-2.60	-4.36	-4.73	-8.74	-24.40
105	-22.43	-10.30	-4.90	-2.72	-1.81	0.33	1.52	0.48	-2.65	-4.32	-4.44	-7.99	-18.41
120	-24.87	-10.18	-4.87	-2.74	-1.91	0.26	1.51	0.52	-2.60	-4.24	-4.28	-7.66	-16.93
135	-27.09	-9.88	-4.72	-2.75	-2.06	0.20	1.54	0.61	-2.51	-3.99	-3.86	-6.86	-14.76
150	-28.05	-9.62	-4.61	-2.73	-2.13	0.20	1.64	0.73	-2.35	-3.72	-3.43	-6.15	-13.15
165	-29.35	-9.53	-4.59	-2.77	-2.21	0.24	1.78	0.90	-2.18	-3.43	-3.03	-5.55	-11.95
180	-31.32	-9.63	-4.67	-2.90	-2.32	0.27	1.88	1.05	-1.98	-3.22	-2.71	-5.05	-11.18
195	-35.02	-9.90	-4.84	-3.13	-2.56	0.21	1.96	1.15	-1.81	-3.01	-2.48	-4.75	-10.83
210	-46.42	-10.34	-5.17	-3.47	-2.85	0.11	1.91	1.20	-1.72	-2.90	-2.38	-4.63	-10.74
225	-32.55	-10.94	-5.58	-3.88	-3.23	-0.03	1.87	1.15	-1.74	-2.91	-2.37	-4.63	-10.96
240	-29.58	-11.54	-6.02	-4.20	-3.49	-0.17	1.70	1.01	-1.87	-2.99	-2.49	-4.80	-11.52
255	-26.30	-12.03	-6.42	-4.68	-3.78	-0.29	1.63	0.71	-2.19	-3.21	-2.73	-5.20	-12.67
270	-23.59	-12.07	-6.46	-4.75	-3.76	-0.28	1.53	0.60	-2.33	-3.26	-2.80	-5.32	-13.21
285	-21.22	-11.74	-6.38	-4.67	-3.58	-0.15	1.48	0.45	-2.50	-3.32	-2.87	-5.49	-14.16
300	-19.45	-11.17	-6.07	-4.38	-3.19	0.08	1.50	0.35	-2.50	-3.20	-2.86	-5.67	-15.20
315	-18.12	-10.63	-5.64	-3.91	-2.68	0.33	1.59	0.36	-2.45	-3.04	-2.84	-5.83	-16.18
330	-17.13	-10.14	-5.24	-3.37	-2.13	0.61	1.71	0.42	-2.30	-2.92	-2.85	-6.06	-17.28
345	-16.56	-9.80	-4.81	-2.87	-1.64	0.81	1.79	0.59	-2.17	-2.87	-2.99	-6.38	-18.71
360	-16.11	-9.64	-4.46	-2.23	-1.04	1.05	1.87	0.63	-2.07	-3.01	-3.34	-7.08	-21.80
Avg.	-20.32	-10.52	-5.24	-3.20	-2.23	0.25	1.54	0.51	-2.42	-3.58	-3.46	-6.42	-14.85
Peak Value		1.956		Minimum Value		-46.424							

Vertical														
$\phi$ [deg]	$\Theta$ [deg]													
	0	15	30	45	60	75	90	105	120	135	150	165	180	
0	-10.84	-12.10	-15.30	-26.32	-17.19	-11.30	-11.57	-15.75	-14.48	-13.50	-16.61	-17.79	-15.81	
15	-9.62	-11.76	-14.59	-17.93	-17.10	-12.33	-12.94	-16.68	-13.60	-11.99	-16.08	-19.20	-17.36	
30	-8.96	-9.89	-12.82	-15.49	-15.53	-13.67	-15.58	-15.85	-11.63	-11.25	-15.46	-21.62	-20.34	
45	-7.88	-9.14	-10.84	-12.41	-13.14	-13.70	-15.24	-13.42	-9.05	-10.10	-14.74	-23.25	-24.21	
60	-6.91	-7.88	-8.92	-9.97	-11.04	-12.51	-13.77	-10.90	-8.38	-9.16	-13.68	-21.52	-25.63	
75	-6.10	-6.84	-7.57	-8.17	-9.28	-10.66	-10.93	-8.71	-7.26	-8.49	-13.02	-19.90	-22.94	
90	-5.54	-6.10	-6.50	-7.21	-8.30	-9.39	-9.01	-7.30	-6.41	-7.87	-12.16	-17.16	-19.45	
105	-5.26	-5.71	-5.98	-6.62	-7.93	-8.73	-7.84	-6.38	-5.84	-7.56	-11.73	-15.93	-17.87	
120	-5.31	-5.64	-5.84	-6.62	-8.19	-8.91	-7.54	-6.08	-5.63	-7.47	-11.47	-15.16	-16.92	
135	-5.56	-5.89	-6.41	-7.08	-9.08	-9.93	-8.02	-6.92	-5.89	-7.64	-11.68	-15.30	-17.11	
150	-6.17	-6.38	-6.72	-8.52	-10.59	-11.99	-9.25	-7.82	-6.50	-8.28	-12.52	-16.28	-19.29	
165	-7.48	-7.14	-7.57	-9.20	-12.66	-15.52	-11.49	-9.19	-7.70	-10.25	-15.53	-18.23	-20.72	
180	-8.02	-8.60	-8.53	-10.55	-14.72	-21.33	-15.56	-11.43	-9.54	-11.46	-17.60	-21.69	-23.53	
195	-9.19	-9.14	-9.73	-12.01	-16.03	-24.29	-25.45	-16.08	-14.37	-14.11	-23.52	-23.26	-22.04	
210	-10.47	-10.37	-11.03	-13.69	-16.15	-16.68	-20.71	-27.85	-16.88	-17.52	-31.44	-19.67	-17.78	
225	-11.72	-11.52	-12.55	-15.90	-15.22	-12.88	-13.94	-22.17	-19.96	-18.18	-20.09	-16.10	-14.62	
240	-12.63	-12.36	-13.92	-19.04	-14.87	-10.36	-10.20	-14.20	-16.47	-15.41	-15.27	-13.21	-12.51	
255	-13.14	-12.85	-15.10	-25.63	-13.72	-7.96	-7.80	-10.57	-13.00	-13.08	-12.92	-11.68	-11.10	
270	-13.05	-12.64	-15.06	-35.00	-13.25	-7.37	-6.29	-8.52	-10.93	-11.58	-11.62	-10.56	-10.39	
285	-12.94	-12.43	-14.26	-24.35	-12.52	-6.69	-5.53	-7.59	-10.24	-11.16	-11.29	-10.50	-10.06	
300	-12.78	-12.27	-14.16	-19.50	-12.11	-6.51	-5.35	-7.92	-10.54	-11.65	-11.69	-10.86	-10.50	
315	-12.64	-12.21	-13.92	-19.40	-12.27	-6.87	-5.85	-8.40	-11.74	-13.54	-13.58	-11.74	-10.89	
330	-12.62	-12.49	-14.36	-20.54	-13.13	-7.69	-6.89	-10.00	-13.50	-14.21	-14.38	-13.01	-11.86	
345	-12.15	-12.54	-15.19	-24.53	-14.67	-8.89	-9.48	-12.21	-15.31	-14.82	-15.81	-14.71	-13.11	
360	-10.84	-12.10	-15.30	-26.32	-17.19	-11.30	-11.57	-15.75	-14.48	-13.50	-16.61	-17.79	-15.81	
Avg.	-8.71	-9.11	-9.96	-11.64	-12.13	-10.19	-9.45	-10.00	-9.71	-10.91	-14.05	-15.09	-14.82	
	Peak Value	-5.261	Minimum Value	-35.001										

RHCP														
$\phi$ [deg]	$\Theta$ [deg]													
	0	15	30	45	60	75	90	105	120	135	150	165	180	
0	-13.00	-23.93	-10.39	-5.58	-2.90	-1.08	-1.06	-2.12	-4.00	-5.93	-7.81	-13.06	-22.40	
15	-11.50	-23.24	-10.43	-5.41	-2.67	-0.84	-0.78	-1.77	-3.62	-5.20	-7.26	-12.94	-23.14	
30	-10.68	-19.64	-10.58	-5.25	-2.41	-0.60	-0.43	-1.23	-2.89	-4.96	-7.27	-12.55	-26.97	
45	-9.61	-18.59	-10.96	-5.42	-2.36	-0.48	-0.06	-0.82	-2.02	-4.43	-6.93	-11.91	-32.34	
60	-8.81	-16.78	-11.76	-5.82	-2.56	-0.50	-0.02	-0.56	-1.87	-3.93	-6.34	-11.08	-28.11	
75	-8.28	-15.70	-13.01	-6.62	-3.06	-0.70	-0.07	-0.42	-1.60	-3.52	-5.86	-10.29	-22.86	
90	-8.20	-15.16	-14.69	-7.68	-3.81	-1.18	-0.40	-0.52	-1.48	-3.14	-5.25	-9.18	-18.87	
105	-8.10	-15.74	-18.11	-9.61	-5.39	-2.24	-0.75	-0.78	-1.51	-2.85	-4.62	-8.12	-15.66	
120	-8.43	-16.10	-20.34	-10.68	-5.88	-2.63	-1.27	-1.26	-1.61	-2.71	-4.29	-7.61	-14.57	
135	-8.97	-17.47	-21.37	-11.35	-6.58	-3.16	-1.75	-1.77	-1.87	-2.61	-3.97	-7.10	-13.57	
150	-9.79	-19.54	-20.55	-10.75	-6.70	-3.40	-2.06	-1.98	-2.14	-2.69	-3.85	-6.86	-13.69	
165	-11.21	-22.33	-18.26	-10.37	-6.27	-3.22	-2.06	-2.04	-2.47	-3.18	-4.20	-6.90	-13.37	
180	-11.63	-27.31	-16.56	-9.58	-5.71	-2.78	-1.81	-2.02	-2.75	-3.38	-4.29	-7.28	-14.33	
195	-12.57	-28.16	-15.14	-8.91	-5.10	-2.30	-1.33	-1.95	-3.33	-3.90	-4.77	-7.82	-15.89	
210	-13.44	-27.23	-14.34	-8.50	-4.73	-1.86	-1.20	-1.82	-3.46	-4.63	-5.57	-8.81	-18.62	
225	-14.14	-25.00	-13.75	-8.27	-4.48	-1.65	-0.98	-1.83	-3.83	-5.51	-6.52	-9.97	-23.23	
240	-15.06	-22.91	-13.41	-8.11	-4.44	-1.55	-1.03	-1.92	-4.38	-6.67	-7.73	-11.44	-33.75	
255	-16.00	-21.90	-13.09	-8.13	-4.53	-1.74	-1.12	-2.43	-5.26	-8.05	-8.96	-12.77	-29.10	
270	-16.81	-20.15	-12.46	-7.99	-4.57	-1.82	-1.38	-2.72	-5.96	-9.17	-9.69	-13.77	-24.23	
285	-17.63	-19.46	-11.82	-7.84	-4.65	-2.05	-1.75	-3.26	-6.75	-9.92	-9.92	-13.66	-20.97	
300	-18.30	-19.43	-11.50	-7.60	-4.64	-2.23	-2.10	-3.82	-7.20	-9.77	-9.60	-13.43	-20.22	
315	-17.84	-19.98	-11.17	-7.22	-4.48	-2.27	-2.22	-3.93	-7.04	-8.57	-8.79	-13.12	-19.07	
330	-17.46	-22.22	-10.89	-6.75	-4.11	-2.05	-2.10	-3.66	-6.35	-7.99	-8.53	-13.01	-19.32	
345	-15.81	-22.87	-10.54	-6.28	-3.65	-1.69	-1.56	-2.96	-4.93	-7.06	-8.21	-12.98	-20.01	
360	-13.00	-23.93	-10.39	-5.58	-2.90	-1.08	-1.06	-2.12	-4.00	-5.93	-7.81	-13.06	-22.40	
Avg.	-11.60	-19.64	-13.11	-7.73	-4.40	-1.93	-1.34	-2.05	-3.50	-5.01	-6.43	-10.12	-18.35	
	Peak Value	-0.015	Minimum Value	-33.751										

LHCP														
$\phi$ [deg]	$\Theta$ [deg]													
	0	15	30	45	60	75	90	105	120	135	150	165	180	
0	-12.46	-7.79	-5.28	-4.90	-5.32	-2.47	-0.84	-2.44	-5.88	-5.39	-4.96	-7.87	-15.67	
15	-12.02	-7.69	-5.11	-4.59	-5.36	-2.77	-1.17	-2.87	-6.44	-6.08	-5.48	-8.40	-17.80	
30	-11.86	-7.07	-4.80	-4.25	-5.23	-3.27	-1.79	-3.65	-7.79	-6.74	-6.01	-9.48	-20.43	
45	-11.25	-6.85	-4.38	-3.82	-4.92	-3.68	-2.45	-4.29	-10.36	-7.82	-6.81	-10.68	-24.01	
60	-10.44	-6.27	-3.85	-3.28	-4.46	-3.66	-2.51	-4.60	-11.46	-9.34	-7.84	-12.06	-28.50	
75	-9.56	-5.68	-3.34	-2.70	-3.82	-3.37	-2.39	-4.51	-12.47	-11.16	-8.92	-13.35	-30.76	
90	-8.69	-5.19	-2.88	-2.30	-3.33	-2.85	-1.86	-3.78	-11.79	-13.58	-10.03	-14.96	-26.96	
105	-8.28	-4.75	-2.51	-1.92	-2.75	-2.10	-1.30	-2.90	-10.10	-15.76	-10.88	-15.24	-24.43	
120	-8.11	-4.63	-2.38	-1.77	-2.70	-1.91	-0.74	-2.04	-8.76	-16.97	-11.45	-15.42	-22.46	
135	-8.15	-4.65	-2.53	-1.84	-2.79	-1.77	-0.38	-1.61	-7.74	-16.28	-11.06	-13.94	-20.50	
150	-8.59	-4.84	-2.60	-2.29	-3.14	-1.85	-0.20	-1.46	-7.11	-14.46	-10.10	-12.20	-17.57	
165	-9.82	-5.25	-2.95	-2.54	-3.77	-2.16	-0.20	-1.40	-6.80	-11.71	-8.36	-10.47	-15.81	
180	-10.47	-6.11	-3.38	-3.09	-4.55	-2.64	-0.41	-1.45	-6.69	-10.48	-7.44	-8.77	-13.59	
195	-11.84	-6.52	-3.94	-3.76	-5.68	-3.33	-0.78	-1.61	-6.36	-8.79	-6.28	-7.59	-11.99	
210	-13.53	-7.39	-4.61	-4.54	-6.86	-4.03	-0.97	-1.79	-6.16	-7.30	-5.21	-6.50	-10.59	
225	-15.32	-8.30	-5.37	-5.44	-8.28	-4.45	-1.08	-1.85	-5.75	-6.10	-4.35	-5.72	-9.59	
240	-16.11	-9.10	-6.11	-6.23	-9.16	-4.50	-1.04	-1.83	-5.11	-5.00	-3.72	-5.13	-8.99	
255	-15.89	-9.66	-6.78	-7.23	-9.61	-3.71	-0.70	-1.59	-4.49	-4.31	-3.40	-4.98	-8.85	
270	-14.81	-9.71	-6.98	-7.53	-9.25	-3.33	-0.32	-1.22	-3.85	-3.77	-3.13	-4.69	-8.68	
285	-13.86	-9.48	-6.95	-7.44	-8.18	-2.54	0.08	-0.91	-3.50	-3.56	-3.11	-4.83	-8.89	
300	-13.07	-9.06	-6.68	-6.94	-7.04	-1.92	0.37	-0.81	-3.38	-3.55	-3.23	-5.12	-9.59	
315	-12.72	-8.65	-6.25	-6.42	-6.16	-1.60	0.43	-0.83	-3.58	-3.96	-3.65	-5.54	-10.31	
330	-12.51	-8.32	-5.95	-5.89	-5.64	-1.56	0.29	-1.14	-3.96	-4.10	-3.82	-6.06	-11.42	
345	-12.45	-8.09	-5.65	-5.46	-5.41	-1.82	-0.35	-1.56	-5.02	-4.54	-4.23	-6.71	-12.81	
360	-12.46	-7.79	-5.28	-4.90	-5.32	-2.47	-0.84	-2.44	-5.88	-5.39	-4.96	-7.87	-15.67	
Avg.	-11.27	-6.98	-4.54	-4.21	-5.27	-2.89	-0.94	-2.21	-6.32	-6.90	-5.80	-7.92	-12.92	
	Peak Value	0.430	Minimum Value	-30.758										

AR													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	30.11	2.73	10.87	28.16	17.19	21.93	37.82	34.64	19.37	30.04	15.75	10.76	8.66
15	30.51	2.93	10.54	26.50	16.27	19.11	32.91	23.96	15.88	25.93	19.85	11.85	10.51
30	23.36	4.16	9.87	24.84	15.86	16.36	22.17	17.20	11.22	19.81	22.76	15.14	8.88
45	20.52	4.60	8.83	20.74	16.70	14.78	17.28	14.12	7.01	14.30	42.65	23.08	7.02
60	20.56	5.34	7.41	16.77	19.25	14.89	16.90	12.82	5.99	10.40	21.31	24.95	32.85
75	22.69	5.68	5.93	13.06	27.18	16.34	17.55	12.72	5.11	7.67	15.18	15.17	7.42
90	31.08	5.70	4.56	10.45	31.21	20.37	21.55	14.65	5.47	5.39	11.43	9.87	7.24
105	39.48	5.04	2.91	7.62	16.42	41.92	29.91	18.34	6.79	4.00	9.23	8.21	6.63
120	34.71	4.75	2.21	6.52	14.84	27.74	30.32	26.98	8.19	3.41	8.17	7.50	7.42
135	26.56	4.05	1.99	6.05	13.36	21.92	22.08	40.82	9.75	3.66	8.25	8.52	8.43
150	23.20	3.23	2.21	6.91	13.88	21.00	19.44	30.34	11.09	4.59	9.24	10.51	13.16
165	21.97	2.45	3.01	7.49	16.91	24.34	19.43	28.71	12.24	6.84	12.56	13.85	17.11
180	23.53	1.52	3.87	8.94	23.52	41.72	21.86	29.77	13.03	8.24	14.93	21.39	27.43
195	27.59	1.44	4.91	10.82	29.64	24.51	29.95	34.19	15.26	11.24	21.24	37.74	13.13
210	45.48	1.78	5.88	12.98	18.27	18.10	37.72	55.81	16.22	16.33	33.89	17.57	7.30
225	23.35	2.56	6.98	15.85	13.34	15.92	44.80	56.79	19.17	29.34	18.11	12.40	3.67
240	24.35	3.59	8.01	19.32	11.53	15.48	67.54	45.60	27.47	20.39	12.88	9.17	1.01
255	43.73	4.34	9.18	25.66	10.93	18.94	32.42	26.36	27.00	13.49	10.19	7.52	1.69
270	18.80	5.39	10.32	31.52	11.61	21.25	24.30	21.31	18.38	10.42	8.86	6.38	2.93
285	13.40	5.70	11.26	32.77	13.98	31.01	19.58	17.45	14.66	9.11	8.57	6.59	4.42
300	10.69	5.43	11.35	28.41	17.25	34.84	17.01	15.33	13.28	9.27	9.08	7.04	5.26
315	10.86	4.84	11.19	26.75	20.33	28.36	16.39	15.06	14.13	11.71	10.83	7.73	6.64
330	11.15	3.56	11.15	26.09	21.13	30.84	17.28	16.82	17.26	13.14	11.55	8.41	7.42
345	14.36	3.20	11.24	26.43	19.89	42.63	23.16	21.87	45.63	16.82	12.96	9.21	8.13
360	30.11	2.73	10.87	28.16	17.19	21.93	37.82	34.64	19.37	30.04	15.75	10.76	8.66
Avg.	34.89	3.94	8.28	24.76	22.01	33.60	53.60	45.65	31.84	20.37	29.39	24.39	20.28
	Peak Value	67.540	Minimum Value	1.005									

518.9 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-9.41	-7.34	-3.79	-1.92	-0.71	1.52	2.36	1.07	-1.49	-2.32	-2.78	-6.27	-14.34
15	-8.91	-7.21	-3.67	-1.71	-0.55	1.50	2.33	1.07	-1.44	-2.34	-2.97	-6.68	-16.18
30	-7.91	-6.50	-3.47	-1.40	-0.33	1.52	2.26	1.09	-1.34	-2.40	-3.24	-7.29	-19.03
45	-6.97	-6.25	-3.19	-1.21	-0.18	1.52	2.22	1.12	-1.18	-2.45	-3.49	-7.84	-22.81
60	-6.20	-5.59	-2.89	-1.04	-0.13	1.46	2.23	1.23	-1.06	-2.48	-3.65	-8.04	-24.56
75	-5.50	-4.98	-2.60	-0.93	-0.16	1.42	2.24	1.36	-0.90	-2.48	-3.72	-8.02	-21.38
90	-5.02	-4.45	-2.29	-0.88	-0.28	1.32	2.27	1.50	-0.72	-2.41	-3.65	-7.68	-17.76
105	-4.88	-4.11	-2.10	-0.88	-0.49	1.16	2.28	1.63	-0.60	-2.32	-3.46	-7.18	-15.41
120	-4.90	-4.03	-1.99	-0.95	-0.75	0.97	2.29	1.70	-0.50	-2.19	-3.17	-6.53	-13.49
135	-5.23	-4.11	-2.05	-1.10	-1.04	0.82	2.27	1.64	-0.54	-2.10	-2.86	-5.91	-12.35
150	-5.78	-4.38	-2.23	-1.29	-1.33	0.66	2.26	1.62	-0.60	-2.10	-2.58	-5.39	-11.58
165	-6.58	-4.83	-2.49	-1.58	-1.62	0.54	2.25	1.64	-0.75	-2.14	-2.39	-4.97	-11.09
180	-7.65	-5.47	-2.87	-1.91	-1.92	0.47	2.23	1.62	-0.93	-2.31	-2.24	-4.66	-10.69
195	-8.87	-6.21	-3.31	-2.32	-2.21	0.39	2.25	1.58	-1.09	-2.40	-2.14	-4.38	-10.26
210	-10.11	-7.07	-3.88	-2.79	-2.50	0.37	2.26	1.55	-1.25	-2.48	-2.09	-4.20	-9.67
225	-11.28	-7.91	-4.49	-3.31	-2.81	0.37	2.28	1.54	-1.31	-2.52	-2.04	-4.03	-9.13
240	-12.00	-8.61	-5.04	-3.79	-3.04	0.42	2.33	1.50	-1.34	-2.49	-1.99	-3.90	-8.66
255	-12.40	-9.08	-5.49	-4.28	-3.18	0.53	2.43	1.50	-1.37	-2.45	-1.96	-3.86	-8.29
270	-12.17	-8.99	-5.60	-4.44	-3.13	0.71	2.51	1.47	-1.42	-2.39	-1.95	-3.85	-8.16
285	-11.81	-8.68	-5.39	-4.35	-2.87	0.94	2.61	1.44	-1.48	-2.36	-1.99	-3.92	-8.21
300	-11.45	-8.31	-5.06	-3.97	-2.48	1.15	2.64	1.35	-1.56	-2.32	-2.01	-4.15	-8.61
315	-11.18	-7.96	-4.72	-3.48	-2.02	1.30	2.63	1.23	-1.63	-2.30	-2.09	-4.45	-9.30
330	-10.84	-7.70	-4.37	-2.96	-1.58	1.43	2.57	1.13	-1.65	-2.29	-2.22	-4.84	-10.33
345	-10.35	-7.64	-4.09	-2.51	-1.19	1.47	2.48	1.14	-1.62	-2.28	-2.40	-5.36	-11.63
360	-9.41	-7.34	-3.79	-1.92	-0.71	1.52	2.36	1.07	-1.49	-2.32	-2.78	-6.27	-14.34
Avg.	-8.05	-6.41	-3.65	-2.30	-1.58	0.84	2.18	1.23	-1.32	-2.52	-2.76	-5.50	-11.43
Peak Value		2.639		Minimum Value		-24.562							

Horizontal													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.19	-9.32	-4.14	-1.93	-0.81	1.27	2.17	0.97	-1.73	-2.67	-2.95	-6.59	-20.66
15	-16.12	-9.38	-4.07	-1.76	-0.65	1.31	2.19	0.99	-1.75	-2.76	-3.16	-6.94	-23.50
30	-16.39	-9.53	-4.06	-1.59	-0.47	1.37	2.18	0.98	-1.81	-3.05	-3.50	-7.45	-25.43
45	-16.74	-9.81	-4.11	-1.59	-0.44	1.37	2.14	0.94	-1.89	-3.35	-3.84	-7.96	-28.45
60	-17.46	-10.01	-4.26	-1.70	-0.55	1.26	2.10	0.91	-2.06	-3.66	-4.14	-8.25	-32.49
75	-18.55	-10.25	-4.43	-1.91	-0.80	1.10	2.00	0.86	-2.19	-3.90	-4.33	-8.37	-28.82
90	-20.21	-10.26	-4.57	-2.15	-1.12	0.90	1.91	0.82	-2.27	-4.06	-4.39	-8.27	-23.88
105	-22.56	-10.19	-4.63	-2.35	-1.46	0.65	1.81	0.81	-2.34	-4.08	-4.25	-7.91	-19.96
120	-25.31	-9.90	-4.57	-2.45	-1.71	0.46	1.79	0.85	-2.29	-3.94	-3.96	-7.24	-16.61
135	-27.82	-9.62	-4.43	-2.47	-1.84	0.41	1.82	0.95	-2.21	-3.70	-3.55	-6.52	-14.41
150	-29.26	-9.35	-4.31	-2.44	-1.92	0.40	1.93	1.07	-2.03	-3.45	-3.12	-5.82	-12.85
165	-30.17	-9.24	-4.26	-2.47	-2.01	0.43	2.07	1.25	-1.84	-3.17	-2.73	-5.21	-11.65
180	-32.38	-9.36	-4.35	-2.60	-2.16	0.44	2.17	1.40	-1.63	-2.94	-2.39	-4.76	-10.94
195	-35.73	-9.67	-4.52	-2.85	-2.40	0.37	2.24	1.51	-1.47	-2.74	-2.18	-4.44	-10.59
210	-38.97	-10.12	-4.88	-3.18	-2.71	0.27	2.23	1.54	-1.38	-2.64	-2.10	-4.33	-10.44
225	-33.06	-10.78	-5.28	-3.56	-3.08	0.12	2.15	1.51	-1.38	-2.65	-2.11	-4.35	-10.72
240	-28.78	-11.36	-5.71	-3.92	-3.36	-0.01	2.04	1.36	-1.50	-2.73	-2.22	-4.50	-11.27
255	-25.94	-11.84	-6.05	-4.31	-3.58	-0.11	1.94	1.18	-1.72	-2.88	-2.36	-4.75	-12.00
270	-23.59	-11.86	-6.18	-4.45	-3.61	-0.11	1.81	0.95	-1.98	-2.99	-2.49	-4.97	-12.93
285	-21.19	-11.50	-6.06	-4.40	-3.42	0.02	1.79	0.80	-2.14	-3.01	-2.58	-5.14	-13.80
300	-19.43	-10.98	-5.72	-4.09	-3.01	0.26	1.81	0.70	-2.19	-2.89	-2.54	-5.31	-14.71
315	-17.99	-10.37	-5.34	-3.60	-2.47	0.54	1.91	0.70	-2.10	-2.71	-2.50	-5.45	-15.67
330	-17.06	-9.80	-4.88	-3.04	-1.91	0.84	2.02	0.76	-1.96	-2.58	-2.51	-5.63	-16.69
345	-16.50	-9.56	-4.47	-2.54	-1.40	1.04	2.09	0.92	-1.82	-2.52	-2.61	-5.94	-17.98
360	-16.19	-9.32	-4.14	-1.93	-0.81	1.27	2.17	0.97	-1.73	-2.67	-2.95	-6.59	-20.66
Avg.	-20.31	-10.28	-4.93	-2.89	-2.01	0.46	1.84	0.86	-2.07	-3.28	-3.13	-6.06	-14.52
Peak Value		2.242		Minimum Value		-38.972							



Vertical														
$\phi$ [deg]	$\Theta$ [deg]													
	0	15	30	45	60	75	90	105	120	135	150	165	180	
0	-10.43	-11.71	-14.92	-25.46	-16.93	-11.06	-11.35	-15.49	-14.22	-13.43	-16.91	-17.66	-15.50	
15	-9.83	-11.27	-14.21	-20.47	-16.90	-12.11	-12.63	-16.20	-13.16	-12.72	-16.58	-19.15	-17.08	
30	-8.57	-9.50	-12.41	-14.97	-15.14	-13.27	-15.01	-15.18	-11.18	-10.99	-15.57	-21.64	-20.16	
45	-7.45	-8.77	-10.40	-11.95	-12.63	-13.14	-15.45	-12.67	-9.35	-9.73	-14.66	-23.35	-24.19	
60	-6.54	-7.53	-8.58	-9.54	-10.51	-11.97	-13.06	-10.34	-7.91	-8.72	-13.38	-21.32	-25.33	
75	-5.72	-6.52	-7.24	-7.86	-8.82	-10.15	-10.53	-8.33	-6.79	-8.03	-12.55	-19.15	-22.24	
90	-5.15	-5.77	-6.17	-6.85	-7.85	-8.98	-8.68	-6.93	-5.93	-7.41	-11.72	-16.63	-18.98	
105	-4.95	-5.34	-5.67	-6.29	-7.48	-8.39	-7.57	-6.06	-5.41	-7.09	-11.28	-15.28	-17.28	
120	-4.94	-5.33	-5.49	-6.29	-7.78	-8.60	-7.34	-5.79	-5.22	-6.96	-10.98	-14.74	-16.38	
135	-5.26	-5.54	-5.79	-6.79	-8.75	-9.64	-7.82	-6.66	-5.48	-7.21	-11.18	-14.73	-16.58	
150	-5.80	-6.05	-6.42	-7.64	-10.34	-11.78	-9.14	-7.65	-6.11	-7.82	-11.94	-15.65	-17.57	
165	-6.60	-6.78	-7.24	-8.88	-12.36	-15.50	-11.58	-9.04	-7.29	-8.90	-13.63	-17.64	-20.32	
180	-7.67	-7.74	-8.25	-10.24	-14.50	-21.49	-15.93	-11.40	-9.18	-10.98	-17.00	-21.14	-23.26	
195	-8.88	-8.82	-9.43	-11.72	-15.78	-22.77	-25.13	-16.39	-11.92	-13.65	-22.87	-23.01	-21.58	
210	-10.12	-10.04	-10.72	-13.44	-15.74	-15.87	-19.51	-29.42	-16.45	-16.89	-31.31	-19.37	-17.57	
225	-11.31	-11.07	-12.25	-15.74	-14.98	-12.20	-13.16	-20.44	-19.28	-17.85	-19.75	-15.51	-14.29	
240	-12.09	-11.90	-13.49	-19.06	-14.48	-9.89	-9.57	-13.54	-15.85	-15.16	-14.89	-12.78	-12.10	
255	-12.60	-12.35	-14.67	-26.01	-13.72	-8.16	-7.22	-9.99	-12.51	-12.73	-12.52	-11.19	-10.69	
270	-12.50	-12.14	-14.61	-33.14	-12.97	-6.95	-5.81	-8.00	-10.59	-11.28	-11.29	-10.30	-9.92	
285	-12.34	-11.90	-13.79	-23.48	-12.14	-6.28	-5.04	-7.18	-9.98	-10.92	-10.95	-10.03	-9.61	
300	-12.20	-11.69	-13.53	-19.74	-11.90	-6.19	-4.94	-7.18	-10.25	-11.48	-11.41	-10.45	-9.84	
315	-12.19	-11.68	-13.53	-18.97	-12.11	-6.65	-5.51	-8.19	-11.51	-12.66	-12.49	-11.31	-10.44	
330	-12.02	-11.87	-13.97	-20.21	-13.05	-7.48	-6.61	-9.75	-13.36	-14.21	-14.15	-12.63	-11.48	
345	-11.55	-12.10	-14.85	-24.19	-14.49	-8.78	-8.12	-11.92	-15.02	-14.89	-15.75	-14.35	-12.78	
360	-10.43	-11.71	-14.92	-25.46	-16.93	-11.06	-11.35	-15.49	-14.22	-13.43	-16.91	-17.66	-15.50	
Avg.	-8.32	-8.71	-9.59	-11.28	-11.78	-9.89	-9.04	-9.64	-9.30	-10.49	-13.63	-14.67	-14.36	
	Peak Value	-4.941	Minimum Value	-33.145										

RHCP														
$\phi$ [deg]	$\Theta$ [deg]													
	0	15	30	45	60	75	90	105	120	135	150	165	180	
0	-12.78	-24.24	-10.11	-5.31	-2.65	-0.81	-0.72	-1.77	-3.65	-5.58	-7.35	-12.39	-22.19	
15	-11.89	-23.85	-10.16	-5.16	-2.42	-0.60	-0.43	-1.39	-3.23	-5.23	-7.26	-12.39	-23.19	
30	-10.38	-19.96	-10.36	-5.01	-2.16	-0.31	-0.08	-0.84	-2.52	-4.59	-6.91	-12.03	-28.01	
45	-9.26	-18.75	-10.81	-5.16	-2.12	-0.15	0.20	-0.44	-1.90	-4.07	-6.50	-11.50	-35.45	
60	-8.49	-16.86	-11.67	-5.59	-2.32	-0.23	0.34	-0.18	-1.49	-3.55	-5.93	-10.57	-27.45	
75	-7.91	-15.58	-13.00	-6.48	-2.82	-0.44	0.26	-0.06	-1.22	-3.16	-5.42	-9.71	-21.92	
90	-7.64	-15.04	-14.86	-7.55	-3.61	-0.92	0.00	-0.15	-1.09	-2.77	-4.87	-8.69	-18.26	
105	-7.77	-15.00	-17.53	-9.13	-4.65	-1.58	-0.43	-0.36	-1.12	-2.53	-4.38	-7.89	-15.90	
120	-8.07	-15.88	-21.20	-10.62	-5.75	-2.39	-0.97	-0.91	-1.25	-2.33	-3.92	-7.20	-14.02	
135	-8.63	-17.05	-22.49	-11.32	-6.43	-2.92	-1.47	-1.42	-1.52	-2.27	-3.61	-6.68	-13.05	
150	-9.35	-19.01	-20.51	-11.03	-6.53	-3.17	-1.74	-1.62	-1.77	-2.36	-3.47	-6.45	-12.63	
165	-10.21	-21.43	-17.99	-10.22	-6.12	-2.99	-1.74	-1.65	-2.09	-2.57	-3.57	-6.51	-12.92	
180	-11.16	-24.16	-16.20	-9.42	-5.55	-2.54	-1.45	-1.63	-2.40	-3.05	-3.93	-6.93	-13.91	
195	-12.11	-25.77	-14.83	-8.78	-4.97	-2.05	-1.13	-1.54	-2.71	-3.59	-4.45	-7.48	-15.70	
210	-12.91	-24.93	-14.09	-8.31	-4.57	-1.61	-0.78	-1.43	-3.09	-4.32	-5.27	-8.46	-18.23	
225	-13.66	-23.34	-13.44	-7.98	-4.33	-1.39	-0.61	-1.38	-3.46	-5.25	-6.29	-9.72	-23.12	
240	-14.36	-21.52	-13.10	-7.89	-4.27	-1.31	-0.57	-1.52	-3.97	-6.44	-7.50	-11.15	-34.98	
255	-15.20	-20.95	-12.55	-7.81	-4.28	-1.39	-0.72	-1.85	-4.69	-7.64	-8.61	-12.44	-30.56	
270	-16.06	-19.16	-12.08	-7.69	-4.38	-1.57	-1.02	-2.32	-5.55	-8.97	-9.37	-13.05	-23.12	
285	-16.92	-18.60	-11.40	-7.54	-4.44	-1.81	-1.37	-2.86	-6.36	-9.70	-9.58	-13.06	-20.08	
300	-17.46	-18.70	-11.12	-7.28	-4.42	-1.98	-1.73	-3.37	-6.90	-9.47	-9.17	-12.73	-18.82	
315	-17.74	-19.20	-10.78	-6.90	-4.24	-2.01	-1.86	-3.56	-6.71	-8.68	-8.62	-12.46	-18.32	
330	-16.84	-20.65	-10.48	-6.44	-3.88	-1.77	-1.75	-3.29	-5.99	-7.61	-8.12	-12.33	-18.69	
345	-15.27	-22.80	-10.16	-5.98	-3.39	-1.43	-1.41	-2.61	-5.03	-6.68	-7.76	-12.36	-19.58	
360	-12.78	-24.24	-10.11	-5.31	-2.65	-0.81	-0.72	-1.77	-3.65	-5.58	-7.35	-12.39	-22.19	
Avg.	-11.18	-19.17	-12.83	-7.49	-4.17	-1.65	-1.00	-1.66	-3.13	-4.68	-6.07	-9.69	-17.83	
	Peak Value	0.339	Minimum Value	-35.446										



LHCP														
$\phi$ [deg]	$\theta$ [deg]													
	0	15	30	45	60	75	90	105	120	135	150	165	180	
0	-12.09	-7.43	-4.94	-4.57	-5.14	-2.30	-0.58	-2.12	-5.55	-5.08	-4.64	-7.48	-15.12	
15	-11.96	-7.31	-4.77	-4.32	-5.11	-2.65	-0.95	-2.57	-6.17	-5.48	-4.98	-8.04	-17.15	
30	-11.53	-6.70	-4.46	-3.88	-4.95	-3.12	-1.54	-3.37	-7.57	-6.43	-5.68	-9.07	-19.62	
45	-10.84	-6.50	-4.02	-3.45	-4.62	-3.45	-2.08	-4.09	-9.28	-7.52	-6.50	-10.29	-23.05	
60	-10.08	-5.93	-3.51	-2.91	-4.16	-3.47	-2.29	-4.36	-11.26	-9.10	-7.52	-11.61	-27.70	
75	-9.20	-5.38	-3.02	-2.34	-3.55	-3.17	-2.14	-4.21	-12.33	-10.90	-8.60	-12.95	-30.66	
90	-8.46	-4.84	-2.53	-1.93	-2.99	-2.63	-1.62	-3.51	-11.60	-13.40	-9.77	-14.53	-27.37	
105	-8.01	-4.48	-2.23	-1.58	-2.60	-2.14	-1.05	-2.73	-10.05	-15.67	-10.67	-15.40	-25.13	
120	-7.77	-4.32	-2.05	-1.45	-2.40	-1.71	-0.48	-1.76	-8.49	-17.09	-11.19	-14.97	-22.85	
135	-7.89	-4.33	-2.09	-1.53	-2.52	-1.56	-0.12	-1.32	-7.48	-16.26	-10.85	-13.76	-20.61	
150	-8.30	-4.53	-2.29	-1.78	-2.89	-1.66	0.05	-1.17	-6.84	-14.49	-9.91	-12.02	-18.29	
165	-9.06	-4.92	-2.61	-2.22	-3.53	-2.01	0.04	-1.11	-6.51	-12.46	-8.61	-10.19	-15.74	
180	-10.22	-5.52	-3.07	-2.76	-4.38	-2.54	-0.20	-1.16	-6.36	-10.34	-7.17	-8.57	-13.50	
195	-11.66	-6.26	-3.62	-3.43	-5.48	-3.26	-0.42	-1.32	-6.17	-8.59	-6.00	-7.31	-11.72	
210	-13.34	-7.14	-4.31	-4.22	-6.70	-3.98	-0.72	-1.50	-5.87	-7.11	-4.94	-6.23	-10.32	
225	-15.03	-8.04	-5.08	-5.11	-8.10	-4.39	-0.86	-1.57	-5.41	-5.84	-4.09	-5.39	-9.31	
240	-15.78	-8.84	-5.78	-5.93	-9.12	-4.43	-0.79	-1.50	-4.78	-4.73	-3.42	-4.80	-8.67	
255	-15.63	-9.37	-6.44	-6.82	-9.68	-3.96	-0.44	-1.20	-4.09	-4.01	-3.02	-4.51	-8.31	
270	-14.46	-9.43	-6.70	-7.22	-9.17	-3.19	-0.04	-0.87	-3.53	-3.47	-2.82	-4.41	-8.30	
285	-13.41	-9.15	-6.64	-7.19	-8.06	-2.35	0.39	-0.58	-3.18	-3.24	-2.82	-4.48	-8.50	
300	-12.70	-8.73	-6.29	-6.70	-6.90	-1.75	0.66	-0.43	-3.06	-3.25	-2.94	-4.80	-9.05	
315	-12.26	-8.30	-5.96	-6.11	-5.99	-1.43	0.72	-0.53	-3.25	-3.43	-3.18	-5.20	-9.88	
330	-12.09	-7.93	-5.59	-5.55	-5.46	-1.39	0.57	-0.83	-3.65	-3.81	-3.51	-5.70	-11.02	
345	-12.04	-7.77	-5.32	-5.10	-5.22	-1.65	0.20	-1.24	-4.27	-4.23	-3.90	-6.32	-12.39	
360	-12.09	-7.43	-4.94	-4.57	-5.14	-2.30	-0.58	-2.12	-5.55	-5.08	-4.64	-7.48	-15.12	
Avg.	-10.94	-6.65	-4.21	-3.87	-5.05	-2.75	-0.66	-1.90	-5.98	-6.60	-5.50	-7.58	-12.56	
	Peak Value	0.721	Minimum Value	-30.663										

AR													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	28.04	2.52	10.79	27.40	16.93	21.32	42.01	33.87	19.26	30.82	16.23	11.21	8.27
15	47.42	2.61	10.45	26.34	16.26	18.63	30.45	23.34	15.50	36.99	17.68	12.21	9.52
30	23.62	3.84	9.71	23.72	15.97	15.89	21.53	16.78	10.96	19.54	23.08	15.44	6.96
45	20.82	4.32	8.59	20.17	16.91	14.53	17.70	13.68	7.94	14.17	68.40	23.16	4.25
60	20.78	5.08	7.17	16.33	19.56	14.67	16.46	12.52	5.86	10.20	20.80	24.47	36.91
75	22.57	5.55	5.70	12.63	27.49	16.16	17.23	12.59	4.97	7.57	14.84	14.68	6.66
90	26.59	5.55	4.29	10.10	29.05	20.17	20.63	14.39	5.34	5.27	11.21	9.78	6.36
105	37.02	5.34	3.02	7.76	18.59	29.92	28.98	17.36	6.50	3.89	9.19	7.80	6.26
120	35.17	4.70	1.92	6.31	14.39	28.14	31.01	26.20	8.09	3.21	8.06	7.53	6.59
135	27.50	4.09	1.66	5.84	13.08	22.12	22.21	44.74	9.63	3.51	8.09	8.26	7.74
150	24.43	3.32	2.14	6.25	13.70	21.25	19.75	31.57	10.94	4.39	9.00	10.17	10.04
165	23.57	2.62	2.99	7.31	16.59	24.93	19.82	30.10	12.09	5.76	10.98	13.61	15.89
180	25.35	2.04	3.90	8.74	23.50	67.17	22.83	31.41	12.98	8.04	14.67	20.53	32.67
195	31.73	1.85	4.91	10.50	30.66	23.15	27.75	37.91	14.14	11.06	20.97	39.94	12.96
210	32.16	2.25	5.84	12.71	18.26	17.38	49.59	47.76	15.97	15.96	34.41	17.88	7.41
225	22.04	3.01	6.99	15.72	13.41	15.34	36.64	39.35	19.00	29.30	17.98	12.24	3.60
240	21.74	4.11	8.00	18.99	11.29	15.02	37.73	56.06	26.60	20.17	12.73	9.12	0.84
255	31.96	4.69	9.43	24.90	10.41	16.66	35.77	28.51	29.30	13.72	10.15	7.39	1.34
270	20.73	5.88	10.45	31.44	11.39	20.61	25.00	21.60	18.74	10.28	8.87	6.75	3.19
285	14.00	6.09	11.45	33.76	13.73	30.05	19.91	17.67	14.86	8.99	8.62	6.80	4.69
300	11.45	5.71	11.35	29.60	16.97	37.83	17.25	15.53	13.26	9.28	9.27	7.39	5.85
315	10.31	5.10	11.37	26.84	19.95	29.52	16.64	15.26	14.13	10.66	10.36	8.07	6.92
330	11.47	4.09	11.24	25.82	20.85	33.26	17.55	17.03	17.49	13.33	11.73	8.77	7.65
345	14.71	3.11	11.31	25.86	19.58	37.98	20.67	22.10	27.22	17.07	13.20	9.52	8.14
360	28.04	2.52	10.79	27.40	16.93	21.32	42.01	33.87	19.26	30.82	16.23	11.21	8.27
Avg.	34.59	4.07	8.29	24.95	21.73	53.20	37.05	43.15	19.83	24.77	54.42	26.33	24.41
	Peak Value	68.400	Minimum Value	0.841									

520.2 MHz

Horizontal + Vertical														
$\phi$ [deg]	$\Theta$ [deg]													
	0	15	30	45	60	75	90	105	120	135	150	165	180	
0	-9.07	-7.07	-3.53	-1.64	-0.53	1.68	2.61	1.35	-1.21	-2.06	-2.44	-5.85	-13.81	
15	-8.62	-6.96	-3.39	-1.43	-0.36	1.68	2.55	1.33	-1.15	-2.08	-2.65	-6.25	-15.64	
30	-7.60	-6.59	-3.18	-1.13	-0.13	1.69	2.51	1.34	-1.03	-2.11	-2.94	-6.91	-18.53	
45	-6.66	-5.98	-2.94	-0.96	0.03	1.71	2.46	1.41	-0.89	-2.16	-3.19	-7.40	-22.00	
60	-5.87	-5.36	-2.64	-0.78	0.09	1.65	2.47	1.51	-0.72	-2.20	-3.37	-7.64	-23.79	
75	-5.21	-4.70	-2.33	-0.65	0.03	1.62	2.48	1.65	-0.59	-2.17	-3.44	-7.61	-20.54	
90	-4.73	-4.18	-2.03	-0.63	-0.09	1.51	2.52	1.77	-0.42	-2.11	-3.35	-7.29	-17.05	
105	-4.58	-3.86	-1.87	-0.63	-0.29	1.33	2.50	1.91	-0.28	-2.04	-3.18	-6.82	-14.83	
120	-4.62	-3.77	-1.73	-0.70	-0.58	1.12	2.52	1.97	-0.21	-1.89	-2.86	-6.18	-13.06	
135	-4.93	-3.85	-1.80	-0.84	-0.88	0.94	2.50	1.91	-0.23	-1.85	-2.62	-5.65	-11.99	
150	-5.50	-4.13	-1.96	-1.06	-1.20	0.77	2.47	1.90	-0.32	-1.83	-2.32	-5.09	-11.26	
165	-6.30	-4.59	-2.25	-1.35	-1.48	0.63	2.46	1.91	-0.49	-1.91	-2.13	-4.70	-10.85	
180	-7.37	-5.22	-2.60	-1.69	-1.79	0.56	2.44	1.89	-0.65	-2.08	-2.02	-4.40	-10.45	
195	-8.58	-6.00	-3.07	-2.09	-2.10	0.48	2.46	1.85	-0.82	-2.21	-1.95	-4.16	-10.07	
210	-9.81	-6.83	-3.62	-2.55	-2.38	0.47	2.49	1.84	-0.96	-2.29	-1.88	-3.96	-9.58	
225	-10.86	-7.64	-4.21	-3.07	-2.68	0.47	2.51	1.82	-1.02	-2.31	-1.82	-3.79	-8.98	
240	-11.59	-8.35	-4.80	-3.58	-2.94	0.55	2.59	1.80	-1.07	-2.29	-1.77	-3.67	-8.37	
255	-11.91	-8.70	-5.22	-4.02	-3.10	0.66	2.68	1.82	-1.05	-2.24	-1.75	-3.60	-8.00	
270	-11.66	-8.66	-5.31	-4.20	-3.01	0.84	2.77	1.78	-1.12	-2.18	-1.73	-3.58	-7.81	
285	-11.42	-8.34	-5.14	-4.07	-2.77	1.08	2.88	1.74	-1.21	-2.14	-1.72	-3.62	-7.85	
300	-11.06	-7.97	-4.75	-3.69	-2.35	1.30	2.91	1.65	-1.29	-2.10	-1.74	-3.80	-8.16	
315	-10.75	-7.64	-4.39	-3.21	-1.88	1.47	2.89	1.53	-1.38	-2.07	-1.79	-4.07	-8.84	
330	-10.47	-7.39	-4.06	-2.68	-1.43	1.58	2.82	1.41	-1.38	-2.04	-1.91	-4.46	-9.83	
345	-10.06	-7.30	-3.80	-2.24	-1.03	1.65	2.73	1.41	-1.35	-2.01	-2.11	-4.98	-11.19	
360	-9.07	-7.07	-3.53	-1.64	-0.53	1.68	2.61	1.35	-1.21	-2.06	-2.44	-5.85	-13.81	
Avg.	-7.73	-6.16	-3.39	-2.05	-1.41	0.99	2.42	1.52	-1.03	-2.27	-2.50	-5.19	-11.08	
	Peak Value	2.906	Minimum Value	-23.789										

Horizontal														
$\phi$ [deg]	$\Theta$ [deg]													
	0	15	30	45	60	75	90	105	120	135	150	165	180	
0	-16.24	-9.09	-3.89	-1.66	-0.63	1.44	2.41	1.25	-1.44	-2.37	-2.60	-6.18	-19.65	
15	-16.27	-9.18	-3.80	-1.49	-0.46	1.49	2.41	1.24	-1.45	-2.49	-2.82	-6.49	-22.08	
30	-16.49	-9.34	-3.78	-1.34	-0.28	1.53	2.42	1.23	-1.52	-2.75	-3.18	-7.04	-23.86	
45	-16.88	-9.65	-3.87	-1.35	-0.24	1.55	2.37	1.21	-1.62	-3.06	-3.51	-7.51	-26.25	
60	-17.65	-9.89	-4.02	-1.46	-0.36	1.43	2.32	1.18	-1.78	-3.40	-3.84	-7.83	-29.49	
75	-18.87	-10.07	-4.19	-1.65	-0.62	1.29	2.24	1.14	-1.93	-3.64	-4.05	-7.99	-27.79	
90	-20.47	-10.10	-4.34	-1.91	-0.96	1.06	2.14	1.08	-2.03	-3.82	-4.10	-7.88	-23.31	
105	-22.99	-9.98	-4.38	-2.10	-1.29	0.79	2.03	1.09	-2.05	-3.88	-3.99	-7.56	-19.39	
120	-25.89	-9.71	-4.30	-2.21	-1.57	0.60	2.01	1.12	-2.04	-3.74	-3.67	-6.93	-16.28	
135	-28.75	-9.41	-4.19	-2.21	-1.70	0.52	2.06	1.23	-1.93	-3.53	-3.34	-6.28	-14.17	
150	-30.63	-9.14	-4.05	-2.19	-1.79	0.52	2.16	1.37	-1.77	-3.26	-2.88	-5.54	-12.58	
165	-31.52	-9.04	-4.01	-2.24	-1.87	0.52	2.29	1.54	-1.58	-2.98	-2.49	-4.94	-11.43	
180	-33.71	-9.17	-4.09	-2.37	-2.04	0.53	2.39	1.69	-1.36	-2.74	-2.18	-4.51	-10.68	
195	-36.30	-9.48	-4.31	-2.61	-2.30	0.45	2.46	1.79	-1.19	-2.56	-1.99	-4.22	-10.38	
210	-34.37	-9.99	-4.62	-2.93	-2.61	0.35	2.46	1.84	-1.10	-2.46	-1.88	-4.10	-10.35	
225	-30.77	-10.61	-5.01	-3.32	-2.97	0.20	2.37	1.79	-1.10	-2.44	-1.89	-4.13	-10.60	
240	-27.87	-11.18	-5.46	-3.70	-3.27	0.08	2.27	1.65	-1.23	-2.53	-2.00	-4.29	-11.06	
255	-25.38	-11.61	-5.80	-4.05	-3.53	-0.01	2.15	1.48	-1.42	-2.67	-2.17	-4.51	-11.85	
270	-23.31	-11.67	-5.92	-4.21	-3.51	-0.01	2.04	1.25	-1.69	-2.78	-2.29	-4.74	-12.71	
285	-21.23	-11.33	-5.82	-4.14	-3.33	0.15	2.04	1.09	-1.88	-2.79	-2.32	-4.89	-13.57	
300	-19.47	-10.77	-5.45	-3.81	-2.89	0.40	2.05	0.99	-1.91	-2.64	-2.28	-5.01	-14.36	
315	-17.92	-10.12	-5.02	-3.34	-2.34	0.69	2.15	1.00	-1.84	-2.47	-2.20	-5.10	-15.13	
330	-17.01	-9.56	-4.58	-2.76	-1.75	0.98	2.25	1.04	-1.67	-2.30	-2.19	-5.27	-16.00	
345	-16.50	-9.27	-4.20	-2.27	-1.23	1.22	2.33	1.20	-1.54	-2.23	-2.30	-5.56	-17.22	
360	-16.24	-9.09	-3.89	-1.66	-0.63	1.44	2.41	1.25	-1.44	-2.37	-2.60	-6.18	-19.65	
Avg.	-20.40	-10.08	-4.67	-2.64	-1.86	0.59	2.07	1.14	-1.80	-3.05	-2.87	-5.76	-14.25	
	Peak Value	2.460	Minimum Value	-36.304										

Vertical														
$\phi$ [deg]	$\Theta$ [deg]													
	0	15	30	45	60	75	90	105	120	135	150	165	180	
0	-10.00	-11.36	-14.54	-24.70	-16.87	-10.98	-10.94	-15.20	-14.08	-13.62	-17.05	-17.26	-15.12	
15	-9.44	-10.94	-13.83	-19.82	-16.66	-11.92	-12.42	-15.82	-12.87	-12.52	-16.86	-18.99	-16.75	
30	-8.20	-9.88	-12.06	-14.44	-14.66	-12.96	-14.55	-14.62	-10.76	-10.75	-15.66	-22.08	-20.04	
45	-7.09	-8.41	-10.09	-11.56	-12.13	-12.64	-14.70	-12.09	-8.96	-9.44	-14.59	-23.74	-24.04	
60	-6.16	-7.25	-8.28	-9.20	-10.03	-11.37	-12.45	-9.84	-7.39	-8.34	-13.26	-21.44	-25.15	
75	-5.40	-6.19	-6.90	-7.50	-8.51	-9.71	-10.07	-7.94	-6.34	-7.59	-12.25	-18.46	-21.45	
90	-4.85	-5.47	-5.88	-6.53	-7.47	-8.58	-8.31	-6.56	-5.52	-6.97	-11.36	-16.25	-18.22	
105	-4.64	-5.07	-5.46	-6.06	-7.18	-8.01	-7.34	-5.72	-5.03	-6.67	-10.87	-14.91	-16.70	
120	-4.65	-5.04	-5.23	-6.03	-7.51	-8.36	-7.09	-5.54	-4.83	-6.49	-10.57	-14.20	-15.88	
135	-4.95	-5.26	-5.53	-6.52	-8.53	-9.45	-7.70	-6.47	-5.10	-6.79	-10.80	-14.36	-16.03	
150	-5.51	-5.78	-6.15	-7.44	-10.12	-11.65	-9.12	-7.46	-5.79	-7.37	-11.49	-15.18	-17.06	
165	-6.31	-6.52	-7.01	-8.67	-12.13	-15.62	-11.69	-8.99	-7.03	-8.53	-13.15	-17.37	-19.86	
180	-7.38	-7.46	-7.96	-10.08	-14.22	-21.65	-16.64	-11.39	-8.87	-10.55	-16.54	-20.72	-23.24	
195	-8.59	-8.58	-9.11	-11.52	-15.54	-21.31	-27.43	-16.68	-11.67	-13.32	-22.59	-22.89	-21.65	
210	-9.83	-9.70	-10.52	-13.32	-15.31	-15.08	-18.50	-30.40	-16.05	-16.52	-31.25	-19.00	-17.48	
225	-10.90	-10.69	-11.98	-15.60	-14.55	-11.71	-12.39	-19.41	-18.49	-17.49	-19.54	-15.03	-14.03	
240	-11.69	-11.54	-13.30	-19.16	-14.23	-9.36	-8.96	-12.83	-15.23	-14.96	-14.63	-12.39	-11.72	
255	-12.11	-11.82	-14.25	-26.17	-13.36	-7.77	-6.73	-9.46	-11.97	-12.49	-12.18	-10.81	-10.30	
270	-11.97	-11.66	-14.13	-31.42	-12.62	-6.65	-5.35	-7.58	-10.22	-11.10	-10.96	-9.88	-9.50	
285	-11.89	-11.38	-13.57	-22.42	-11.96	-6.09	-4.64	-6.79	-9.65	-10.73	-10.59	-9.60	-9.20	
300	-11.74	-11.20	-13.02	-19.29	-11.72	-5.96	-4.57	-6.89	-10.06	-11.41	-11.06	-9.94	-9.36	
315	-11.68	-11.26	-13.10	-18.64	-11.89	-6.38	-5.17	-7.85	-11.43	-12.59	-12.17	-10.86	-10.00	
330	-11.55	-11.44	-13.47	-19.90	-12.87	-7.31	-6.32	-9.52	-13.35	-14.37	-13.93	-12.15	-11.02	
345	-11.18	-11.69	-14.32	-24.02	-14.58	-8.62	-7.92	-11.81	-15.02	-15.08	-15.76	-13.97	-12.43	
360	-10.00	-11.36	-14.54	-24.70	-16.87	-10.98	-10.94	-15.20	-14.08	-13.62	-17.05	-17.26	-15.12	
Avg.	-7.97	-8.42	-9.30	-11.01	-11.49	-9.59	-8.71	-9.33	-8.94	-10.16	-13.33	-14.26	-13.95	
	Peak Value	-4.572	Minimum Value	-31.417										

RHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-12.50	-24.62	-9.91	-5.09	-2.47	-0.61	-0.42	-1.47	-3.35	-5.30	-6.98	-11.90	-21.85
15	-11.60	-24.52	-9.95	-4.91	-2.22	-0.38	-0.16	-1.08	-2.88	-4.94	-6.88	-11.84	-23.30
30	-10.07	-21.94	-10.17	-4.80	-1.96	-0.09	0.23	-0.54	-2.18	-4.26	-6.55	-11.56	-29.08
45	-8.96	-18.98	-10.70	-5.02	-1.92	0.08	0.49	-0.11	-1.60	-3.77	-6.19	-11.01	-39.74
60	-8.15	-16.94	-11.63	-5.44	-2.13	0.00	0.62	0.14	-1.13	-3.24	-5.66	-10.13	-27.05
75	-7.63	-15.53	-12.97	-6.34	-2.66	-0.21	0.55	0.26	-0.89	-2.81	-5.12	-9.24	-21.14
90	-7.33	-14.86	-15.08	-7.48	-3.51	-0.72	0.27	0.16	-0.78	-2.46	-4.56	-8.30	-17.47
105	-7.44	-14.87	-18.03	-9.15	-4.54	-1.41	-0.17	-0.05	-0.79	-2.23	-4.07	-7.54	-15.24
120	-7.73	-15.54	-21.73	-10.65	-5.71	-2.23	-0.71	-0.60	-0.94	-2.02	-3.60	-6.82	-13.51
135	-8.27	-16.67	-23.07	-11.30	-6.36	-2.81	-1.19	-1.10	-1.20	-2.00	-3.35	-6.41	-12.57
150	-8.97	-18.51	-20.39	-10.92	-6.47	-3.03	-1.47	-1.29	-1.49	-2.06	-3.18	-6.12	-12.18
165	-9.81	-20.65	-17.70	-10.14	-6.07	-2.83	-1.45	-1.33	-1.81	-2.31	-3.28	-6.22	-12.53
180	-10.73	-22.73	-15.95	-9.24	-5.46	-2.36	-1.17	-1.29	-2.10	-2.79	-3.68	-6.63	-13.49
195	-11.64	-23.77	-14.75	-8.62	-4.87	-1.88	-0.83	-1.20	-2.42	-3.38	-4.24	-7.24	-15.26
210	-12.42	-23.36	-13.73	-8.10	-4.42	-1.43	-0.47	-1.08	-2.77	-4.10	-5.03	-8.26	-18.05
225	-13.09	-21.80	-13.11	-7.84	-4.19	-1.22	-0.29	-1.05	-3.13	-5.03	-6.09	-9.57	-23.24
240	-13.82	-20.30	-12.70	-7.71	-4.15	-1.10	-0.25	-1.18	-3.67	-6.24	-7.32	-10.99	-36.13
255	-14.64	-19.01	-12.18	-7.58	-4.15	-1.20	-0.41	-1.47	-4.37	-7.51	-8.47	-12.10	-28.55
270	-15.40	-18.32	-11.71	-7.49	-4.20	-1.40	-0.67	-1.99	-5.28	-8.81	-9.19	-12.70	-21.97
285	-16.28	-17.92	-11.28	-7.28	-4.30	-1.62	-1.04	-2.56	-6.14	-9.54	-9.30	-12.61	-19.20
300	-16.87	-18.06	-10.79	-7.02	-4.26	-1.78	-1.42	-3.04	-6.63	-9.21	-8.82	-12.21	-17.87
315	-17.15	-18.74	-10.43	-6.65	-4.08	-1.80	-1.54	-3.23	-6.47	-8.44	-8.24	-11.86	-17.63
330	-16.41	-19.87	-10.22	-6.18	-3.68	-1.57	-1.45	-2.98	-5.70	-7.29	-7.71	-11.75	-18.02
345	-14.90	-22.17	-9.97	-5.73	-3.19	-1.20	-1.09	-2.29	-4.74	-6.36	-7.39	-11.74	-19.10
360	-12.50	-24.62	-9.91	-5.09	-2.47	-0.61	-0.42	-1.47	-3.35	-5.30	-6.98	-11.90	-21.85
Avg.	-10.81	-18.79	-12.63	-7.31	-4.02	-1.46	-0.71	-1.33	-2.82	-4.40	-5.78	-9.34	-17.32
	Peak Value	0.619	Minimum Value	-39.741									

LHCP														
$\phi$ [deg]	$\theta$ [deg]													
	0	15	30	45	60	75	90	105	120	135	150	165	180	
0	-11.70	-7.15	-4.67	-4.25	-4.97	-2.20	-0.38	-1.86	-5.31	-4.85	-4.33	-7.09	-14.55	
15	-11.67	-7.04	-4.47	-4.01	-4.93	-2.55	-0.78	-2.39	-5.97	-5.24	-4.71	-7.65	-16.45	
30	-11.22	-6.72	-4.15	-3.56	-4.75	-3.05	-1.39	-3.19	-7.38	-6.21	-5.43	-8.73	-18.93	
45	-10.51	-6.20	-3.74	-3.12	-4.38	-3.34	-1.93	-3.90	-9.10	-7.26	-6.20	-9.89	-22.07	
60	-9.75	-5.68	-3.22	-2.60	-3.89	-3.36	-2.14	-4.18	-11.23	-8.91	-7.23	-11.24	-26.57	
75	-8.90	-5.07	-2.72	-2.02	-3.33	-3.02	-1.96	-4.00	-12.30	-10.80	-8.36	-12.67	-29.46	
90	-8.20	-4.57	-2.25	-1.63	-2.72	-2.46	-1.42	-3.32	-11.51	-13.19	-9.50	-14.11	-27.38	
105	-7.75	-4.22	-1.98	-1.29	-2.34	-1.97	-0.88	-2.49	-9.84	-15.70	-10.48	-15.01	-25.32	
120	-7.53	-4.06	-1.77	-1.17	-2.18	-1.58	-0.29	-1.53	-8.28	-17.43	-10.92	-14.82	-23.20	
135	-7.63	-4.08	-1.83	-1.25	-2.33	-1.44	0.07	-1.10	-7.21	-16.60	-10.71	-13.61	-21.05	
150	-8.09	-4.30	-2.02	-1.53	-2.73	-1.57	0.22	-0.94	-6.59	-14.72	-9.77	-11.85	-18.43	
165	-8.86	-4.70	-2.37	-1.96	-3.34	-1.97	0.20	-0.89	-6.29	-12.46	-8.47	-9.99	-15.77	
180	-10.05	-5.30	-2.81	-2.53	-4.22	-2.55	-0.04	-0.95	-6.12	-10.29	-7.02	-8.37	-13.43	
195	-11.54	-6.07	-3.38	-3.18	-5.37	-3.30	-0.28	-1.12	-5.93	-8.47	-5.82	-7.10	-11.63	
210	-13.27	-6.93	-4.07	-3.96	-6.64	-4.03	-0.57	-1.26	-5.64	-6.96	-4.75	-5.98	-10.25	
225	-14.82	-7.81	-4.81	-4.83	-8.01	-4.46	-0.71	-1.33	-5.17	-5.63	-3.86	-5.13	-9.14	
240	-15.54	-8.63	-5.56	-5.70	-9.07	-4.45	-0.61	-1.24	-4.52	-4.53	-3.19	-4.56	-8.37	
255	-15.23	-9.13	-6.19	-6.54	-9.79	-3.92	-0.26	-0.93	-3.78	-3.77	-2.80	-4.26	-8.04	
270	-14.05	-9.15	-6.44	-6.95	-9.19	-3.11	0.15	-0.58	-3.22	-3.25	-2.59	-4.15	-7.98	
285	-13.13	-8.85	-6.35	-6.90	-8.03	-2.26	0.63	-0.27	-2.89	-3.02	-2.55	-4.21	-8.18	
300	-12.38	-8.42	-5.99	-6.39	-6.84	-1.64	0.90	-0.16	-2.79	-3.04	-2.69	-4.48	-8.65	
315	-11.88	-7.99	-5.63	-5.83	-5.90	-1.29	0.94	-0.23	-3.00	-3.20	-2.90	-4.86	-9.45	
330	-11.74	-7.64	-5.26	-5.25	-5.35	-1.29	0.78	-0.56	-3.39	-3.58	-3.23	-5.35	-10.54	
345	-11.79	-7.45	-5.00	-4.82	-5.11	-1.53	0.40	-1.00	-4.02	-4.00	-3.64	-6.00	-11.95	
360	-11.70	-7.15	-4.67	-4.25	-4.97	-2.20	-0.38	-1.86	-5.31	-4.85	-4.33	-7.09	-14.55	
Avg.	-10.68	-6.40	-3.94	-3.59	-4.88	-2.67	-0.48	-1.66	-5.74	-6.39	-5.25	-7.29	-12.26	
	Peak Value	0.942	Minimum Value	-29.460										

AR													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	26.68	2.34	10.67	26.23	16.91	20.75	51.36	33.01	18.99	31.84	16.39	11.38	8.03
15	47.04	2.34	10.30	25.74	16.20	18.10	28.95	22.51	15.08	35.17	18.11	12.53	8.52
30	23.59	3.04	9.55	22.93	15.98	15.44	20.64	16.41	10.72	19.05	23.82	15.86	5.59
45	20.98	4.06	8.39	19.27	17.06	14.24	17.15	13.38	7.81	14.04	60.92	23.83	2.28
60	20.72	4.88	6.94	15.78	19.92	14.38	16.07	12.25	5.61	10.02	20.87	23.93	31.20
75	22.72	5.38	5.52	12.27	28.32	15.91	16.88	12.38	4.79	7.33	14.68	14.20	7.02
90	26.04	5.49	4.03	9.78	26.92	20.05	20.24	14.08	5.20	5.20	11.15	9.84	5.75
105	34.89	5.25	2.76	7.46	17.99	29.84	27.79	17.09	6.40	3.74	9.05	7.85	5.63
120	38.58	4.75	1.75	6.07	13.96	28.50	32.29	25.36	7.98	2.97	8.00	7.33	5.91
135	28.76	4.15	1.51	5.65	12.83	22.06	22.83	91.99	9.55	3.27	7.96	8.13	6.88
150	25.98	3.43	2.11	6.14	13.47	21.52	20.27	33.89	10.89	4.12	8.81	9.93	9.24
165	25.23	2.79	3.01	7.16	16.14	26.12	20.50	32.03	11.96	5.58	10.75	13.42	14.69
180	28.15	2.35	3.89	8.69	22.99	39.54	23.70	34.28	12.87	7.81	14.43	20.01	48.49
195	44.53	2.28	4.81	10.36	30.78	21.76	30.02	47.68	14.02	10.91	20.85	41.76	13.72
210	26.25	2.64	5.93	12.63	17.94	16.56	45.30	39.46	15.72	15.75	35.65	17.67	7.50
225	20.07	3.52	7.04	15.31	13.30	14.69	32.31	35.65	18.64	29.27	17.88	12.04	3.47
240	20.15	4.64	8.20	18.77	11.18	14.41	33.63	48.86	26.15	20.14	12.65	9.01	0.71
255	29.33	5.77	9.59	24.53	10.07	16.17	41.02	30.09	29.35	13.49	10.02	7.47	1.64
270	22.18	6.31	10.61	30.21	11.07	20.15	26.49	21.86	18.55	10.19	8.81	6.82	3.52
285	14.92	6.38	11.18	33.19	13.50	28.68	20.34	17.66	14.67	8.91	8.64	6.95	5.02
300	11.95	5.95	11.38	28.78	16.65	41.41	17.54	15.67	13.26	9.35	9.40	7.58	6.27
315	10.62	5.19	11.39	26.49	19.61	30.61	16.96	15.34	14.09	10.68	10.52	8.35	7.15
330	11.61	4.34	11.11	25.36	20.38	35.66	17.88	17.19	17.57	13.55	11.96	9.05	7.84
345	15.03	3.23	11.09	25.55	19.18	34.47	21.35	22.63	27.70	17.39	13.46	9.93	8.19
360	26.68	2.34	10.67	26.23	16.91	20.75	51.36	33.01	18.99	31.84	16.39	11.38	8.03
Avg.	35.78	4.21	8.22	24.24	21.45	31.39	38.88	78.01	19.84	23.87	46.96	28.03	34.59
	Peak Value	91.988	Minimum Value	0.711									

521.5 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-9.02	-6.99	-3.44	-1.62	-0.57	1.61	2.63	1.39	-1.14	-2.02	-2.38	-5.66	-13.49
15	-8.48	-6.90	-3.31	-1.38	-0.37	1.62	2.55	1.38	-1.10	-2.02	-2.56	-6.08	-15.43
30	-7.49	-6.56	-3.14	-1.11	-0.15	1.65	2.51	1.40	-0.94	-2.05	-2.85	-6.71	-18.22
45	-6.61	-5.95	-2.89	-0.90	0.03	1.67	2.48	1.47	-0.81	-2.10	-3.08	-7.20	-21.56
60	-5.76	-5.27	-2.60	-0.73	0.07	1.62	2.50	1.57	-0.66	-2.12	-3.29	-7.42	-23.23
75	-5.10	-4.67	-2.29	-0.60	0.05	1.57	2.50	1.71	-0.49	-2.10	-3.35	-7.42	-19.87
90	-4.63	-4.13	-1.98	-0.58	-0.09	1.45	2.51	1.85	-0.32	-2.04	-3.27	-7.12	-16.60
105	-4.48	-3.80	-1.80	-0.57	-0.31	1.27	2.53	1.97	-0.20	-1.96	-3.10	-6.67	-14.52
120	-4.55	-3.72	-1.71	-0.65	-0.59	1.05	2.50	2.02	-0.13	-1.83	-2.80	-6.06	-12.80
135	-4.85	-3.80	-1.74	-0.79	-0.93	0.84	2.49	1.96	-0.17	-1.79	-2.53	-5.52	-11.81
150	-5.45	-4.08	-1.91	-1.01	-1.25	0.65	2.45	1.96	-0.24	-1.81	-2.30	-5.02	-11.14
165	-6.25	-4.53	-2.19	-1.31	-1.57	0.51	2.45	1.96	-0.42	-1.90	-2.12	-4.68	-10.81
180	-7.28	-5.14	-2.55	-1.65	-1.89	0.42	2.44	1.95	-0.60	-2.08	-2.04	-4.38	-10.51
195	-8.44	-5.95	-3.01	-2.05	-2.17	0.34	2.46	1.92	-0.76	-2.25	-1.96	-4.16	-10.09
210	-9.63	-6.81	-3.58	-2.52	-2.49	0.34	2.50	1.92	-0.87	-2.32	-1.92	-3.97	-9.61
225	-10.73	-7.63	-4.19	-3.04	-2.77	0.37	2.52	1.91	-0.94	-2.36	-1.85	-3.80	-8.96
240	-11.38	-8.28	-4.75	-3.54	-3.03	0.44	2.62	1.90	-0.98	-2.32	-1.79	-3.61	-8.36
255	-11.69	-8.64	-5.16	-3.99	-3.21	0.57	2.72	1.90	-1.01	-2.28	-1.75	-3.54	-7.90
270	-11.48	-8.61	-5.20	-4.14	-3.10	0.77	2.82	1.87	-1.06	-2.22	-1.70	-3.50	-7.67
285	-11.18	-8.24	-5.05	-4.03	-2.86	1.01	2.92	1.83	-1.15	-2.15	-1.69	-3.52	-7.73
300	-10.87	-7.82	-4.65	-3.62	-2.42	1.23	2.95	1.73	-1.25	-2.11	-1.67	-3.68	-8.00
315	-10.58	-7.50	-4.31	-3.14	-1.96	1.40	2.92	1.60	-1.34	-2.07	-1.72	-3.94	-8.69
330	-10.27	-7.32	-3.96	-2.64	-1.49	1.51	2.83	1.47	-1.35	-2.02	-1.84	-4.32	-9.61
345	-9.92	-7.22	-3.72	-2.17	-1.10	1.57	2.74	1.46	-1.30	-1.98	-2.02	-4.81	-10.93
360	-9.02	-6.99	-3.44	-1.62	-0.57	1.61	2.63	1.39	-1.14	-2.02	-2.38	-5.66	-13.49
Avg.	-7.63	-6.10	-3.33	-2.00	-1.46	0.91	2.43	1.58	-0.96	-2.25	-2.46	-5.09	-10.97
Peak Value		2.950		Minimum Value		-23.231							

Horizontal													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.51	-9.11	-3.80	-1.64	-0.67	1.36	2.43	1.30	-1.37	-2.31	-2.51	-5.97	-18.91
15	-16.70	-9.20	-3.73	-1.45	-0.48	1.43	2.41	1.29	-1.40	-2.41	-2.71	-6.31	-21.18
30	-16.92	-9.40	-3.77	-1.33	-0.31	1.49	2.42	1.29	-1.45	-2.69	-3.07	-6.83	-22.80
45	-17.35	-9.67	-3.83	-1.31	-0.25	1.49	2.39	1.25	-1.59	-3.00	-3.40	-7.29	-24.65
60	-18.01	-9.89	-4.00	-1.42	-0.40	1.37	2.34	1.22	-1.75	-3.34	-3.74	-7.59	-27.38
75	-19.15	-10.12	-4.17	-1.64	-0.64	1.22	2.24	1.18	-1.88	-3.63	-3.97	-7.79	-26.69
90	-20.91	-10.13	-4.29	-1.88	-1.01	0.97	2.13	1.15	-1.99	-3.82	-4.03	-7.74	-22.82
105	-23.53	-10.00	-4.33	-2.07	-1.35	0.71	2.04	1.14	-2.04	-3.87	-3.95	-7.42	-19.25
120	-26.86	-9.75	-4.28	-2.18	-1.62	0.51	2.01	1.18	-2.00	-3.75	-3.65	-6.83	-16.17
135	-30.08	-9.41	-4.12	-2.17	-1.78	0.42	2.06	1.29	-1.92	-3.54	-3.28	-6.18	-14.10
150	-31.54	-9.16	-3.99	-2.15	-1.86	0.40	2.15	1.44	-1.73	-3.30	-2.89	-5.49	-12.56
165	-32.75	-9.06	-3.96	-2.20	-1.97	0.40	2.30	1.60	-1.53	-3.02	-2.49	-4.93	-11.43
180	-33.68	-9.17	-4.04	-2.33	-2.15	0.39	2.40	1.75	-1.31	-2.78	-2.21	-4.49	-10.76
195	-35.01	-9.50	-4.25	-2.57	-2.39	0.31	2.46	1.86	-1.13	-2.62	-2.00	-4.22	-10.40
210	-32.15	-10.03	-4.59	-2.90	-2.73	0.20	2.45	1.91	-1.01	-2.49	-1.92	-4.11	-10.39
225	-29.71	-10.71	-5.01	-3.28	-3.08	0.07	2.36	1.87	-1.02	-2.50	-1.93	-4.14	-10.64
240	-26.79	-11.22	-5.41	-3.66	-3.38	-0.07	2.28	1.73	-1.16	-2.57	-2.03	-4.27	-11.18
255	-25.32	-11.69	-5.77	-4.01	-3.65	-0.14	2.15	1.54	-1.39	-2.71	-2.18	-4.51	-11.87
270	-23.44	-11.79	-5.85	-4.15	-3.61	-0.12	2.06	1.32	-1.64	-2.82	-2.28	-4.73	-12.72
285	-21.45	-11.31	-5.75	-4.09	-3.43	0.03	2.04	1.16	-1.82	-2.79	-2.31	-4.84	-13.57
300	-19.67	-10.74	-5.38	-3.74	-2.97	0.30	2.09	1.07	-1.86	-2.66	-2.22	-4.93	-14.23
315	-18.28	-10.11	-4.95	-3.28	-2.42	0.61	2.17	1.07	-1.79	-2.46	-2.14	-5.00	-14.96
330	-17.27	-9.56	-4.50	-2.72	-1.80	0.91	2.27	1.11	-1.62	-2.27	-2.12	-5.14	-15.73
345	-16.77	-9.25	-4.13	-2.20	-1.29	1.14	2.34	1.25	-1.48	-2.18	-2.20	-5.41	-16.68
360	-16.51	-9.11	-3.80	-1.64	-0.67	1.36	2.43	1.30	-1.37	-2.31	-2.51	-5.97	-18.91
Avg.	-20.72	-10.10	-4.62	-2.60	-1.93	0.50	2.07	1.20	-1.74	-3.05	-2.84	-5.68	-14.20
Peak Value		2.460		Minimum Value		-35.010							

Vertical														
$\phi$ [deg]	$\Theta$ [deg]													
	0	15	30	45	60	75	90	105	120	135	150	165	180	
0	-9.87	-11.12	-14.36	-24.27	-16.96	-10.94	-10.87	-15.12	-14.13	-13.92	-17.58	-17.18	-14.96	
15	-9.19	-10.75	-13.69	-19.40	-16.57	-11.98	-12.29	-15.60	-12.79	-12.67	-17.40	-19.03	-16.78	
30	-8.01	-9.74	-11.84	-14.22	-14.49	-12.79	-14.24	-14.31	-10.54	-10.73	-15.93	-22.42	-20.08	
45	-7.00	-8.36	-9.99	-11.32	-11.95	-12.34	-14.17	-11.59	-8.68	-9.37	-14.58	-24.11	-24.49	
60	-6.03	-7.11	-8.19	-9.00	-9.83	-11.02	-11.94	-9.56	-7.17	-8.22	-13.39	-21.60	-25.34	
75	-5.27	-6.12	-6.83	-7.35	-8.29	-9.50	-9.83	-7.71	-6.14	-7.38	-12.12	-18.31	-20.89	
90	-4.73	-5.39	-5.82	-6.43	-7.31	-8.34	-8.21	-6.40	-5.29	-6.76	-11.19	-15.90	-17.79	
105	-4.54	-5.00	-5.34	-5.91	-7.02	-7.91	-7.23	-5.63	-4.82	-6.44	-10.59	-14.66	-16.31	
120	-4.58	-4.97	-5.20	-5.94	-7.38	-8.27	-7.18	-5.53	-4.68	-6.32	-10.31	-13.92	-15.47	
135	-4.86	-5.19	-5.49	-6.43	-8.44	-9.46	-7.80	-6.45	-4.96	-6.57	-10.51	-14.07	-15.70	
150	-5.46	-5.69	-6.10	-7.37	-10.06	-11.74	-9.29	-7.49	-5.63	-7.18	-11.26	-14.86	-16.67	
165	-6.26	-6.43	-6.95	-8.68	-12.11	-15.60	-12.12	-8.99	-6.90	-8.32	-12.96	-17.09	-19.58	
180	-7.29	-7.33	-7.91	-10.03	-14.29	-21.57	-17.28	-11.54	-8.81	-10.33	-16.20	-20.45	-22.95	
195	-8.45	-8.48	-9.08	-11.54	-15.34	-20.32	-31.19	-16.89	-11.62	-13.20	-22.25	-22.61	-21.73	
210	-9.66	-9.62	-10.41	-13.33	-15.24	-14.58	-17.48	-31.40	-15.87	-16.34	-31.83	-19.00	-17.44	
225	-10.78	-10.58	-11.85	-15.70	-14.46	-11.39	-11.90	-18.50	-18.19	-17.43	-19.54	-14.99	-13.90	
240	-11.50	-11.35	-13.20	-19.25	-14.07	-9.17	-8.60	-12.36	-14.90	-14.80	-14.48	-12.13	-11.57	
255	-11.88	-11.61	-14.00	-26.29	-13.34	-7.61	-6.43	-9.10	-11.80	-12.46	-12.05	-10.52	-10.13	
270	-11.76	-11.46	-13.78	-28.99	-12.66	-6.53	-5.13	-7.35	-10.11	-11.08	-10.78	-9.56	-9.30	
285	-11.61	-11.19	-13.29	-22.08	-11.94	-5.96	-4.46	-6.62	-9.59	-10.81	-10.46	-9.32	-9.05	
300	-11.48	-10.93	-12.75	-19.03	-11.69	-5.94	-4.49	-6.78	-10.05	-11.34	-10.92	-9.69	-9.18	
315	-11.39	-10.95	-12.90	-18.38	-12.00	-6.38	-5.11	-7.82	-11.49	-12.72	-12.11	-10.61	-9.87	
330	-11.24	-11.27	-13.23	-19.89	-13.17	-7.39	-6.33	-9.51	-13.53	-14.61	-13.90	-11.93	-10.82	
345	-10.92	-11.50	-14.18	-23.93	-14.80	-8.73	-7.89	-11.82	-15.33	-15.60	-15.90	-13.73	-12.27	
360	-9.87	-11.12	-14.36	-24.27	-16.96	-10.94	-10.87	-15.12	-14.13	-13.92	-17.58	-17.18	-14.96	
Avg.	-7.85	-8.30	-9.21	-10.91	-11.40	-9.50	-8.60	-9.21	-8.79	-10.03	-13.20	-14.02	-13.77	
	Peak Value	-4.465	Minimum Value	-31.828										

RHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-12.43	-25.76	-9.87	-5.13	-2.50	-0.62	-0.34	-1.39	-3.26	-5.24	-6.89	-11.52	-21.51
15	-11.43	-25.70	-9.91	-4.93	-2.22	-0.38	-0.09	-0.97	-2.80	-4.83	-6.75	-11.56	-23.36
30	-10.01	-23.06	-10.33	-4.85	-2.00	-0.08	0.30	-0.45	-2.05	-4.19	-6.41	-11.29	-29.88
45	-8.94	-19.61	-10.83	-5.06	-1.96	0.08	0.58	0.02	-1.49	-3.66	-6.04	-10.77	-53.74
60	-8.07	-17.14	-11.80	-5.52	-2.19	0.00	0.72	0.24	-1.04	-3.16	-5.59	-9.92	-26.85
75	-7.54	-15.67	-13.20	-6.43	-2.68	-0.23	0.60	0.36	-0.78	-2.72	-5.01	-9.03	-20.48
90	-7.25	-14.94	-15.43	-7.61	-3.58	-0.75	0.31	0.28	-0.66	-2.37	-4.45	-8.11	-16.96
105	-7.32	-14.84	-18.60	-9.33	-4.66	-1.46	-0.11	0.04	-0.69	-2.13	-3.95	-7.38	-14.85
120	-7.65	-15.39	-22.78	-10.93	-5.88	-2.28	-0.69	-0.52	-0.85	-1.94	-3.51	-6.67	-13.17
135	-8.15	-16.47	-23.52	-11.57	-6.58	-2.88	-1.15	-1.01	-1.11	-1.91	-3.23	-6.25	-12.30
150	-8.88	-18.04	-20.27	-11.14	-6.64	-3.10	-1.45	-1.18	-1.40	-2.01	-3.12	-6.00	-11.95
165	-9.68	-19.93	-17.53	-10.19	-6.22	-2.91	-1.39	-1.21	-1.71	-2.26	-3.24	-6.15	-12.41
180	-10.56	-21.50	-15.83	-9.34	-5.59	-2.41	-1.11	-1.17	-2.04	-2.75	-3.64	-6.57	-13.44
195	-11.37	-22.39	-14.57	-8.68	-4.95	-1.93	-0.73	-1.05	-2.35	-3.40	-4.22	-7.22	-15.17
210	-12.11	-22.06	-13.74	-8.18	-4.55	-1.49	-0.39	-0.96	-2.66	-4.10	-5.08	-8.24	-18.16
225	-12.87	-20.76	-13.12	-7.89	-4.26	-1.24	-0.20	-0.91	-3.05	-5.08	-6.14	-9.53	-23.48
240	-13.46	-19.44	-12.52	-7.74	-4.21	-1.15	-0.14	-1.02	-3.57	-6.30	-7.41	-10.97	-36.85
255	-14.30	-18.17	-12.03	-7.60	-4.22	-1.22	-0.30	-1.35	-4.30	-7.62	-8.53	-12.07	-27.14
270	-15.04	-17.80	-11.55	-7.43	-4.27	-1.39	-0.58	-1.85	-5.19	-8.95	-9.20	-12.58	-21.15
285	-15.90	-17.38	-11.10	-7.24	-4.34	-1.65	-0.97	-2.46	-6.08	-9.62	-9.22	-12.35	-18.54
300	-16.44	-17.55	-10.65	-6.96	-4.30	-1.81	-1.33	-2.95	-6.62	-9.39	-8.66	-11.82	-17.28
315	-16.68	-18.19	-10.35	-6.63	-4.12	-1.80	-1.48	-3.15	-6.45	-8.45	-8.02	-11.45	-17.13
330	-16.10	-19.66	-10.12	-6.19	-3.73	-1.61	-1.38	-2.88	-5.65	-7.27	-7.55	-11.33	-17.48
345	-14.79	-22.09	-9.92	-5.73	-3.23	-1.22	-1.02	-2.23	-4.67	-6.27	-7.21	-11.42	-18.74
360	-12.43	-25.76	-9.87	-5.13	-2.50	-0.62	-0.34	-1.39	-3.26	-5.24	-6.89	-11.52	-21.51
Avg.	-10.68	-18.56	-12.61	-7.36	-4.08	-1.48	-0.64	-1.22	-2.73	-4.36	-5.71	-9.18	-17.05
	Peak Value	0.716	Minimum Value	-53.743									

LHCP														
$\phi$ [deg]	$\theta$ [deg]													
	0	15	30	45	60	75	90	105	120	135	150	165	180	
0	-11.65	-7.04	-4.56	-4.19	-5.02	-2.35	-0.42	-1.86	-5.28	-4.83	-4.28	-6.96	-14.23	
15	-11.56	-6.95	-4.38	-3.91	-4.96	-2.71	-0.85	-2.41	-5.98	-5.23	-4.65	-7.52	-16.20	
30	-11.05	-6.65	-4.06	-3.49	-4.75	-3.19	-1.48	-3.20	-7.41	-6.16	-5.37	-8.57	-18.53	
45	-10.44	-6.14	-3.65	-2.99	-4.31	-3.46	-2.01	-3.98	-9.24	-7.29	-6.14	-9.72	-21.56	
60	-9.61	-5.56	-3.15	-2.47	-3.85	-3.46	-2.23	-4.23	-11.42	-8.85	-7.16	-11.02	-25.71	
75	-8.77	-5.03	-2.66	-1.92	-3.26	-3.11	-2.00	-4.03	-12.48	-10.88	-8.32	-12.53	-28.72	
90	-8.08	-4.51	-2.18	-1.53	-2.67	-2.55	-1.49	-3.32	-11.60	-13.40	-9.48	-14.03	-27.61	
105	-7.67	-4.16	-1.89	-1.19	-2.29	-2.03	-0.88	-2.49	-9.94	-15.98	-10.56	-14.89	-25.90	
120	-7.47	-4.03	-1.74	-1.08	-2.12	-1.66	-0.33	-1.51	-8.29	-17.81	-11.05	-14.84	-23.72	
135	-7.59	-4.04	-1.77	-1.17	-2.31	-1.55	0.03	-1.08	-7.26	-17.16	-10.83	-13.64	-21.54	
150	-8.07	-4.25	-1.97	-1.45	-2.73	-1.72	0.18	-0.92	-6.55	-15.15	-9.91	-11.96	-18.82	
165	-8.88	-4.66	-2.32	-1.92	-3.39	-2.13	0.14	-0.89	-6.30	-12.81	-8.56	-10.09	-15.93	
180	-10.03	-5.25	-2.76	-2.46	-4.30	-2.78	-0.09	-0.94	-6.11	-10.51	-7.14	-8.42	-13.59	
195	-11.55	-6.05	-3.33	-3.12	-5.43	-3.55	-0.37	-1.13	-5.90	-8.60	-5.88	-7.12	-11.70	
210	-13.25	-6.94	-4.02	-3.90	-6.73	-4.31	-0.64	-1.23	-5.59	-7.05	-4.78	-6.01	-10.26	
225	-14.82	-7.85	-4.78	-4.76	-8.13	-4.71	-0.80	-1.31	-5.10	-5.68	-3.88	-5.15	-9.12	
240	-15.57	-8.62	-5.54	-5.62	-9.26	-4.71	-0.64	-1.21	-4.45	-4.54	-3.19	-4.50	-8.36	
255	-15.15	-9.16	-6.16	-6.46	-10.02	-4.13	-0.29	-0.88	-3.76	-3.77	-2.78	-4.19	-7.96	
270	-13.99	-9.17	-6.35	-6.88	-9.38	-3.29	0.17	-0.52	-3.18	-3.25	-2.55	-4.07	-7.87	
285	-12.97	-8.80	-6.29	-6.84	-8.25	-2.39	0.63	-0.20	-2.84	-3.01	-2.54	-4.13	-8.11	
300	-12.28	-8.31	-5.91	-6.32	-6.97	-1.76	0.92	-0.08	-2.74	-3.01	-2.64	-4.40	-8.55	
315	-11.81	-7.89	-5.55	-5.72	-6.04	-1.42	0.95	-0.18	-2.94	-3.20	-2.88	-4.79	-9.37	
330	-11.59	-7.58	-5.16	-5.17	-5.45	-1.39	0.76	-0.51	-3.37	-3.57	-3.20	-5.28	-10.38	
345	-11.63	-7.36	-4.91	-4.69	-5.23	-1.68	0.36	-0.96	-3.99	-4.01	-3.58	-5.88	-11.71	
360	-11.65	-7.04	-4.56	-4.19	-5.02	-2.35	-0.42	-1.86	-5.28	-4.83	-4.28	-6.96	-14.23	
Avg.	-10.60	-6.35	-3.87	-3.50	-4.90	-2.81	-0.52	-1.64	-5.71	-6.41	-5.24	-7.23	-12.20	
	Peak Value	0.955	Minimum Value	-28.725										

AR													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	26.93	2.02	10.55	25.35	16.82	20.08	46.78	31.24	18.77	32.49	16.52	11.80	8.04
15	42.58	2.02	10.23	24.68	16.13	17.52	27.21	21.68	14.84	32.69	18.41	12.83	8.17
30	24.47	2.65	9.22	22.15	16.10	15.03	19.83	16.07	10.49	18.93	24.40	16.18	4.82
45	21.26	3.74	8.15	18.54	17.40	13.95	16.61	12.92	7.56	13.73	44.80	24.32	0.43
60	21.08	4.69	6.73	15.21	20.42	14.13	15.49	11.96	5.43	10.00	20.91	23.96	23.71
75	22.99	5.26	5.32	11.91	29.50	15.71	16.57	12.12	4.62	7.17	14.50	14.01	7.09
90	26.43	5.40	3.84	9.47	25.68	19.73	19.70	13.80	5.07	5.01	11.01	9.69	5.26
105	34.12	5.23	2.55	7.19	17.38	29.66	27.07	16.80	6.24	3.58	8.80	7.80	5.00
120	39.64	4.82	1.55	5.79	13.43	28.90	33.66	24.92	7.87	2.82	7.77	7.16	5.31
135	29.76	4.23	1.42	5.42	12.36	22.35	23.38	47.38	9.37	3.03	7.71	7.93	6.25
150	26.63	3.61	2.12	5.91	13.10	21.99	20.62	36.69	10.82	3.89	8.59	9.62	8.49
165	26.78	3.03	3.05	7.06	15.85	26.93	21.11	34.83	11.76	5.32	10.54	13.04	13.99
180	30.27	2.70	3.92	8.48	22.61	33.35	24.64	37.61	12.76	7.55	14.05	19.46	41.46
195	39.70	2.67	4.89	10.19	31.32	20.62	33.69	47.01	13.91	10.74	20.44	44.95	14.10
210	23.74	3.08	5.89	12.34	18.07	15.87	36.91	36.09	15.54	15.46	35.31	17.87	7.42
225	19.04	4.00	7.01	14.98	13.19	14.11	29.25	32.63	18.60	29.23	17.74	12.14	3.37
240	18.34	5.15	8.37	18.28	10.97	13.89	30.80	38.98	25.99	19.87	12.45	8.97	0.65
255	26.22	6.44	9.74	23.68	9.85	15.61	62.71	31.40	30.15	13.23	9.91	7.44	1.92
270	24.37	6.75	10.73	29.96	10.87	19.26	27.39	22.35	18.77	9.99	8.75	6.86	3.83
285	15.54	6.80	11.38	32.86	13.10	27.44	20.77	17.76	14.67	8.80	8.72	7.12	5.40
300	12.59	6.26	11.49	28.71	16.31	51.69	17.78	15.69	13.15	9.08	9.54	7.89	6.66
315	11.26	5.48	11.40	25.64	19.14	33.15	17.14	15.43	14.01	10.65	10.82	8.74	7.55
330	11.90	4.41	11.12	24.68	20.09	38.12	18.26	17.35	17.69	13.56	12.20	9.51	8.23
345	14.88	3.22	11.04	24.48	18.83	31.46	21.99	22.77	28.10	17.76	13.72	10.21	8.32
360	26.93	2.02	10.55	25.35	16.82	20.08	46.78	31.24	18.77	32.49	16.52	11.80	8.04
Avg.	32.55	4.38	8.21	23.75	21.69	38.16	48.87	37.36	20.20	22.92	31.40	31.10	27.59
	Peak Value	62.711	Minimum Value	0.427									