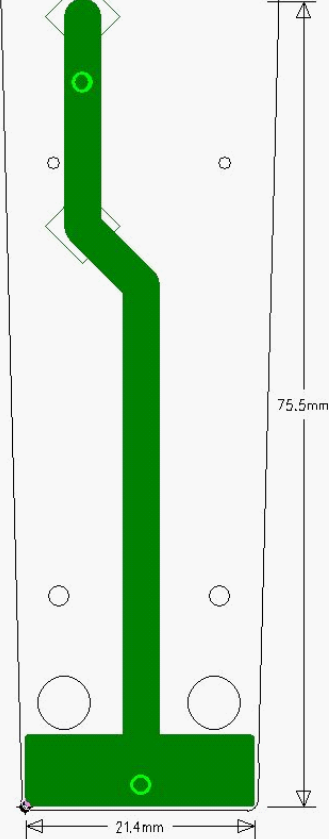


## TKR-373MP PLUS Antenna Specification

ITEM	Antenna Specification
Model	TKR-373MP PLUS
Parts Name	TX ANT
Type and shape of antenna	Pattern print
Antenna gain(max)	-0.058dBi
Radiates characteristic	Omnidirectional Antenna
Polarized characteristics	Linear
Connection	Board Print pattern
Part number	TKR-373MP_TXANT
Antenna photograph	 <p>The photograph shows a green printed antenna pattern on a white substrate. The pattern is a vertical line with a horizontal base at the bottom and a short horizontal segment at the top. The width of the pattern is 21.4mm, and the height is 75.5mm. There are several small circles and larger circles scattered around the pattern, likely representing mounting holes or other components on the board.</p>









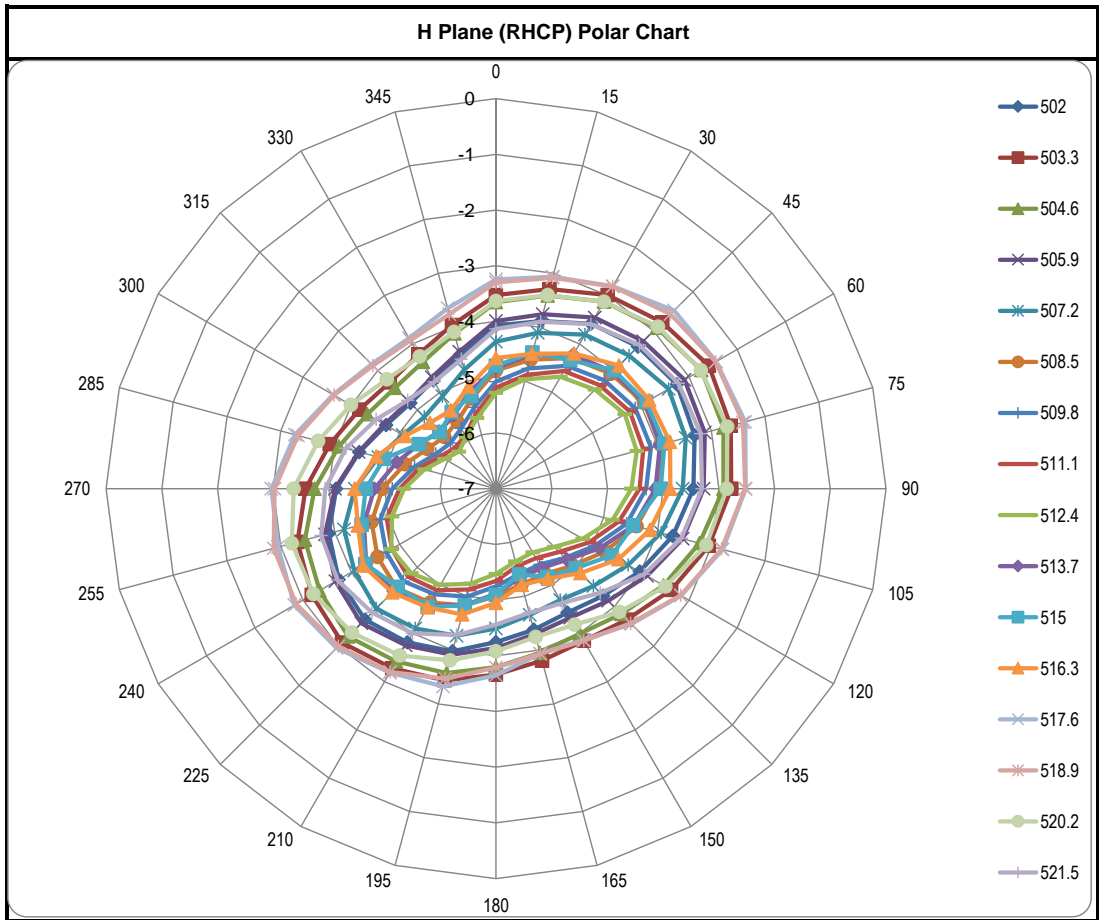
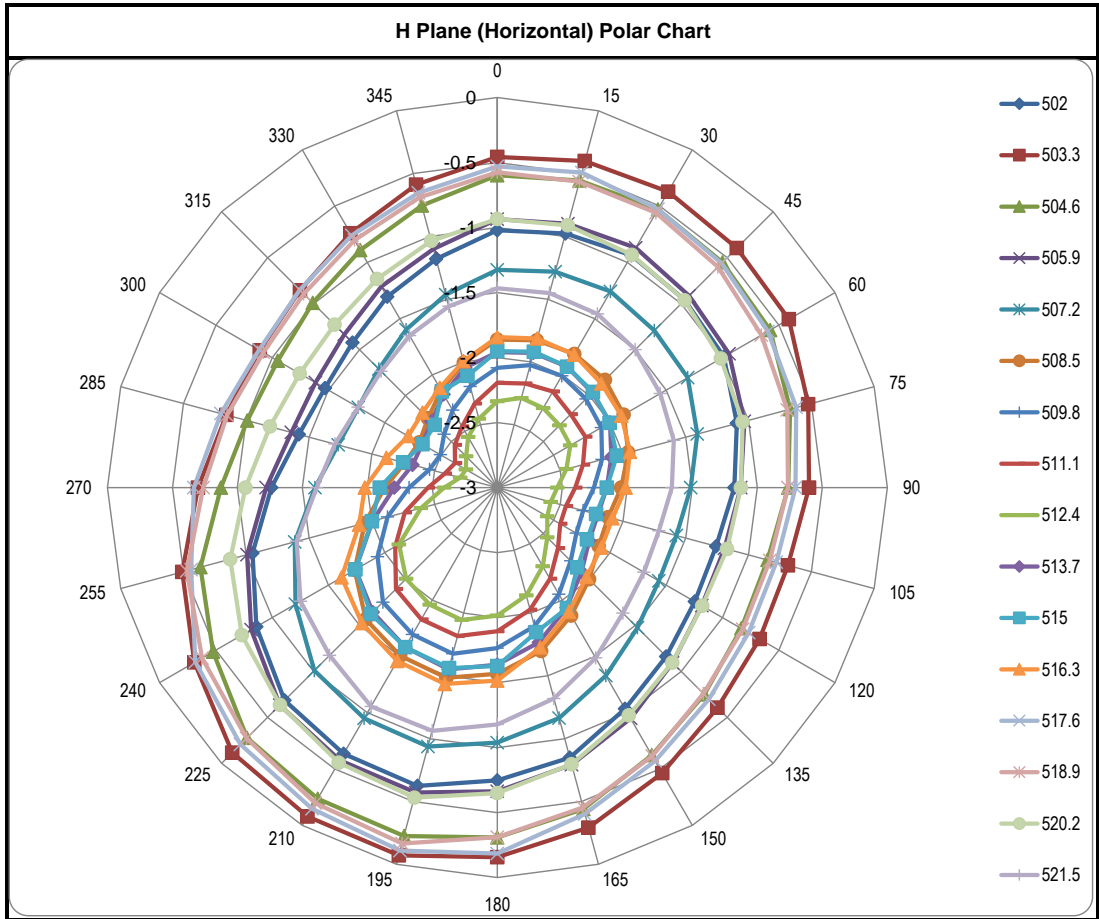










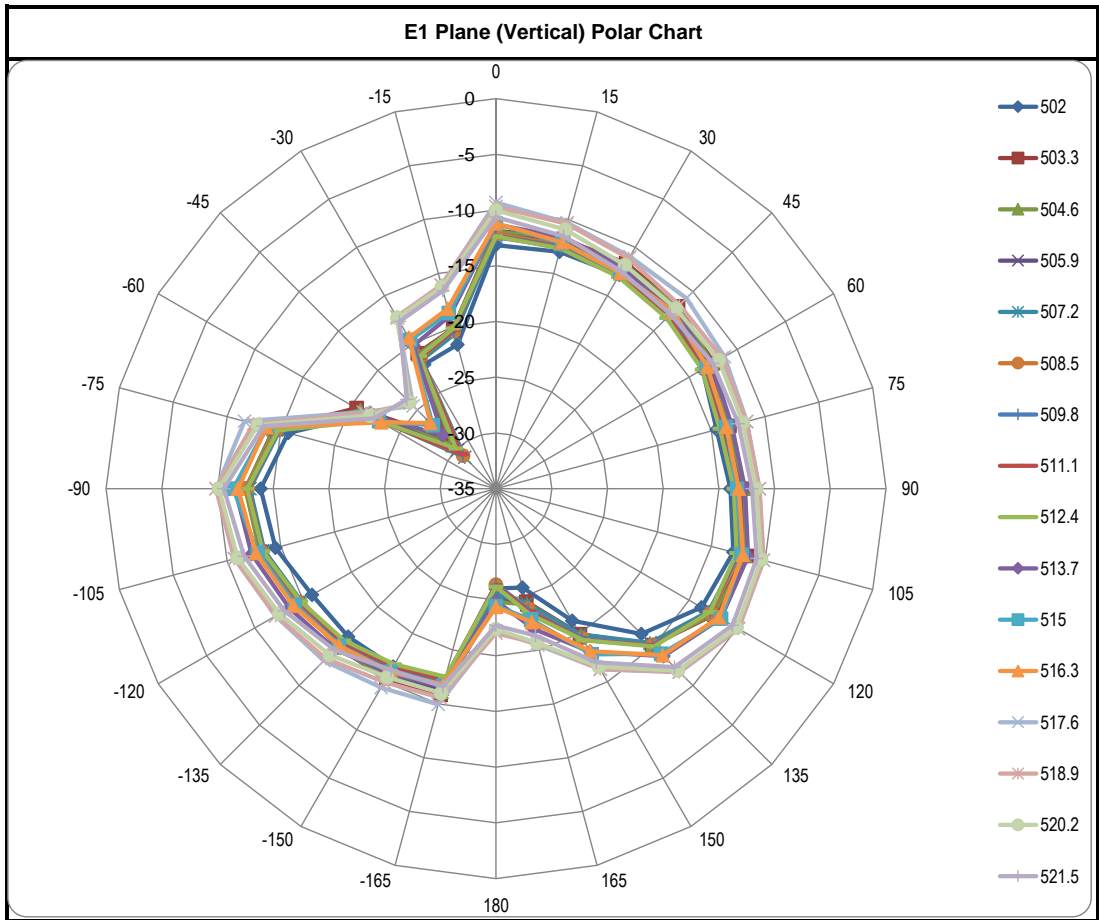
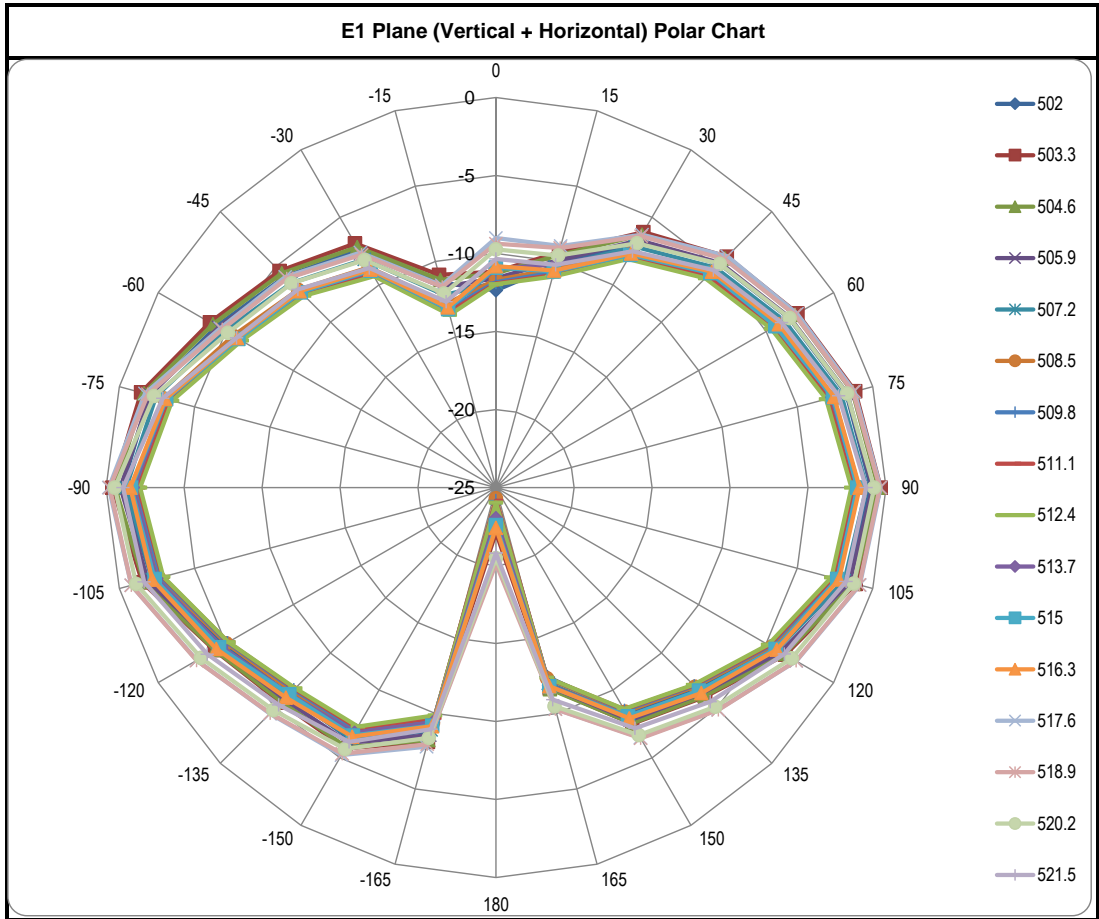


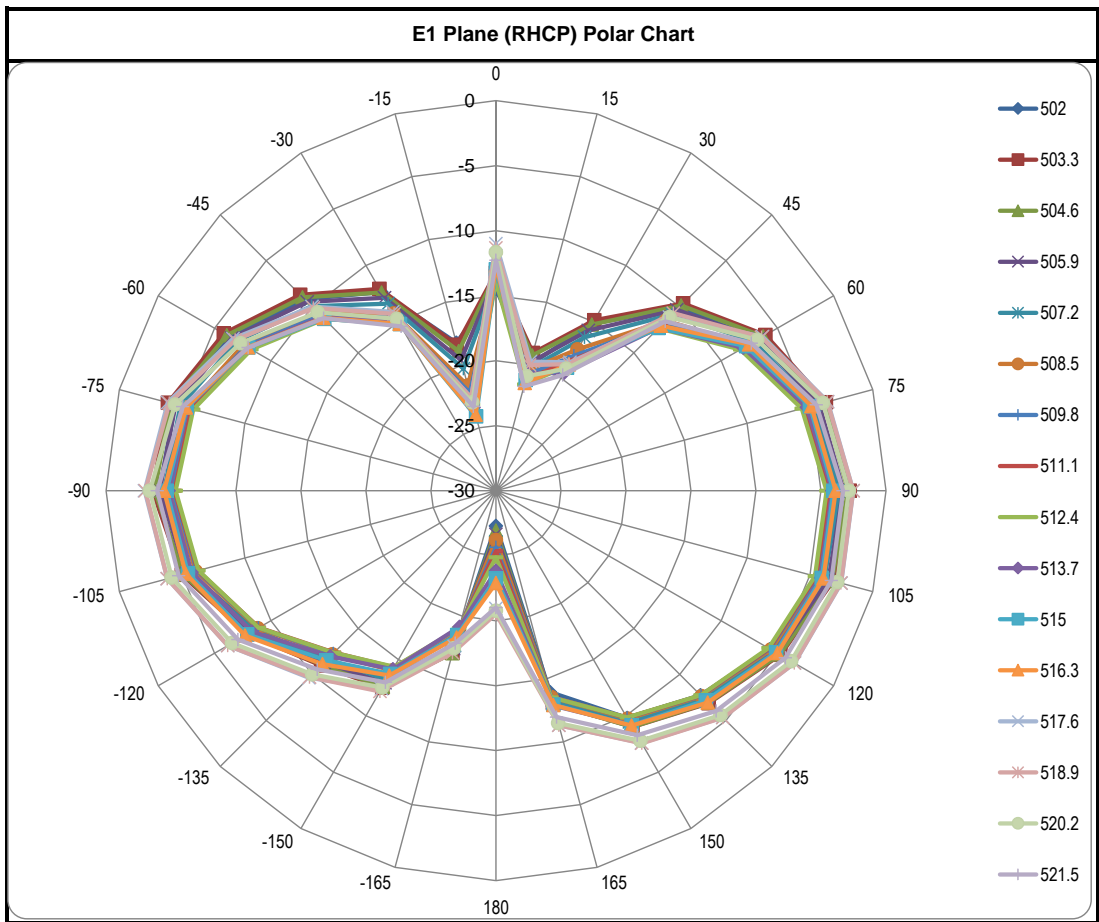
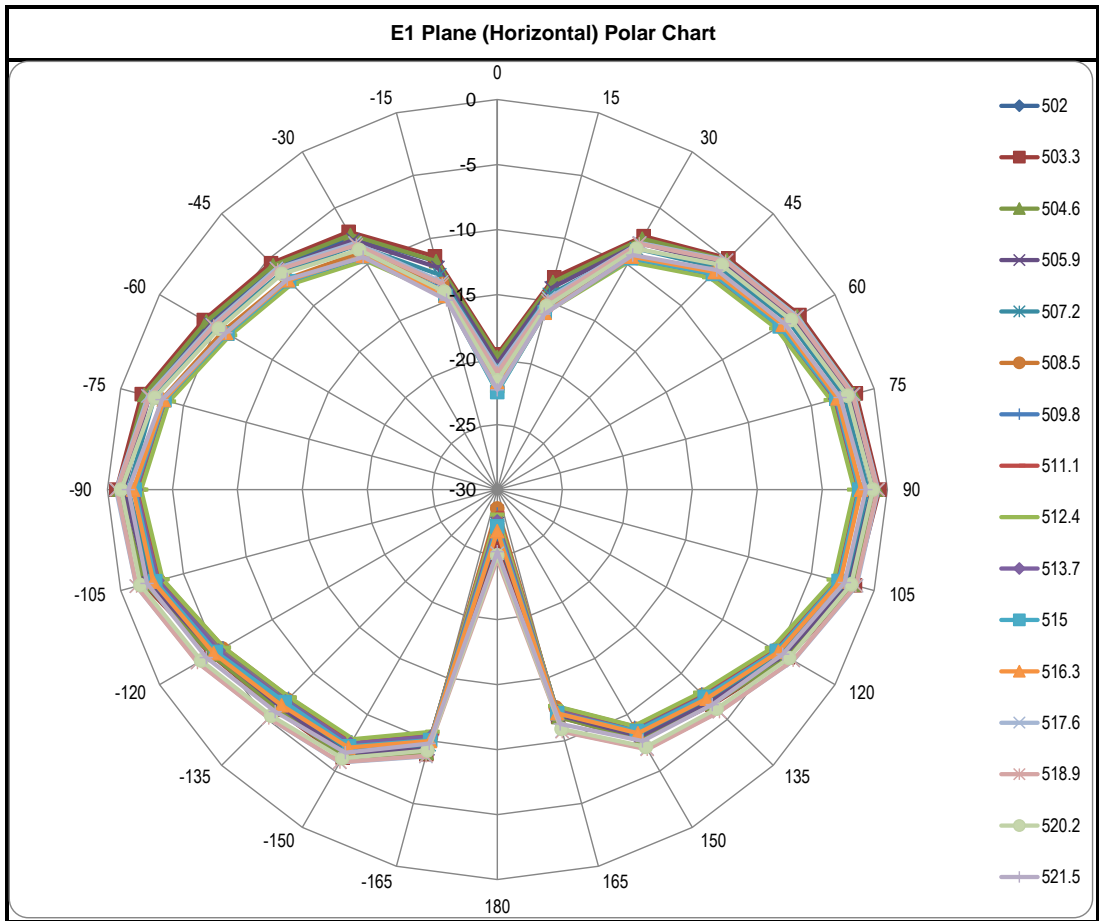






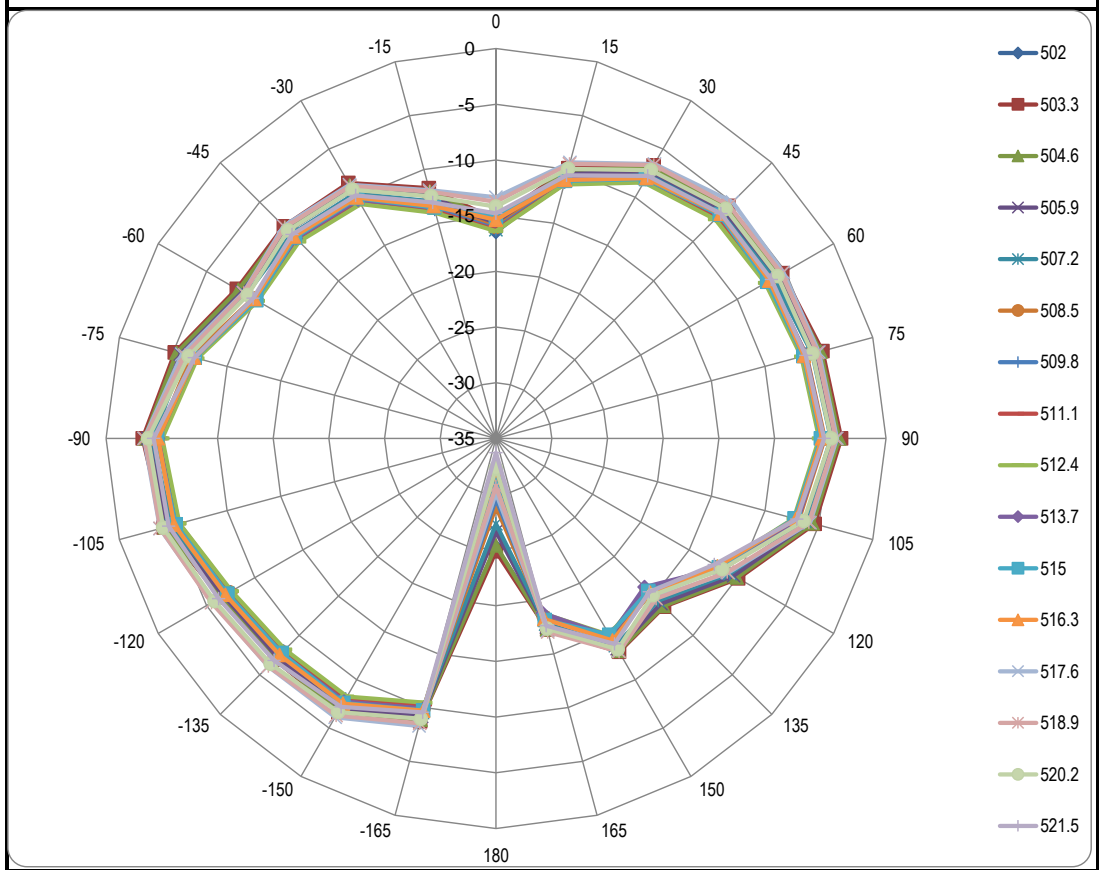








E1 Plane (LHCP) Polar Chart

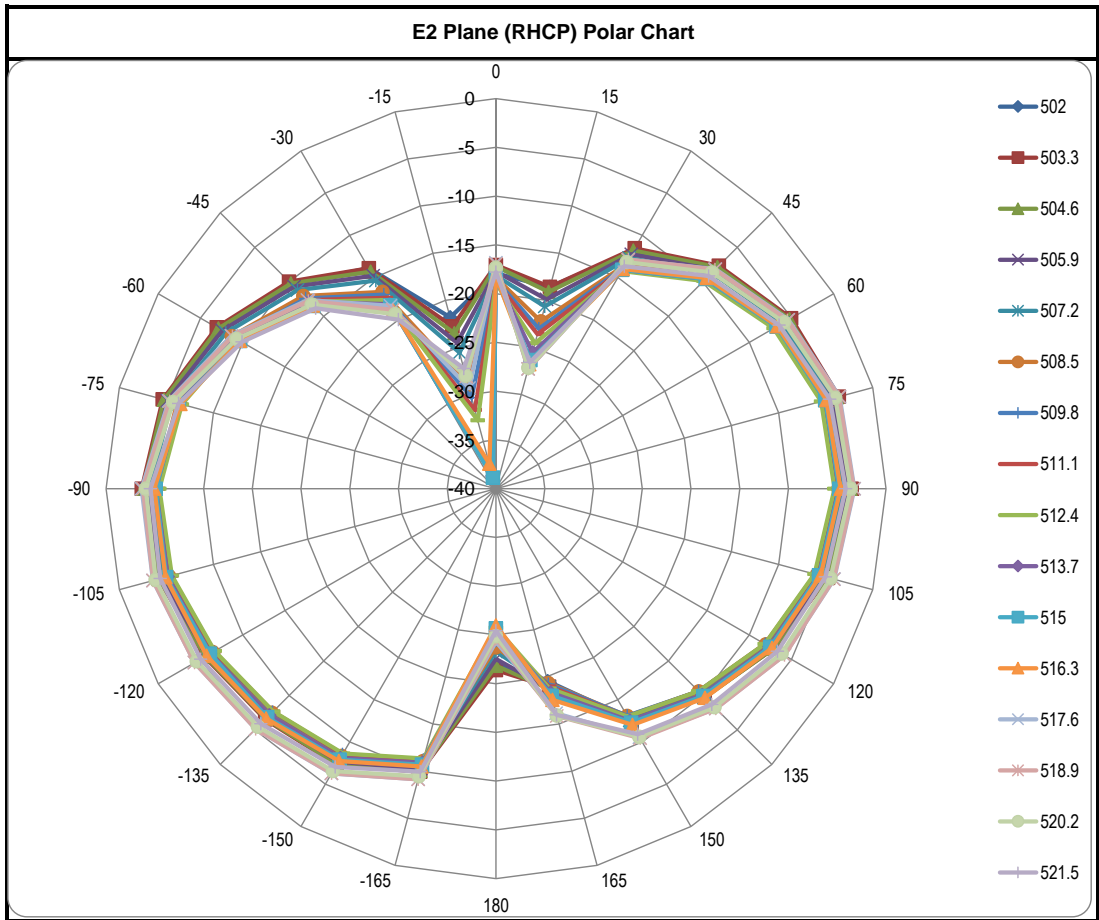
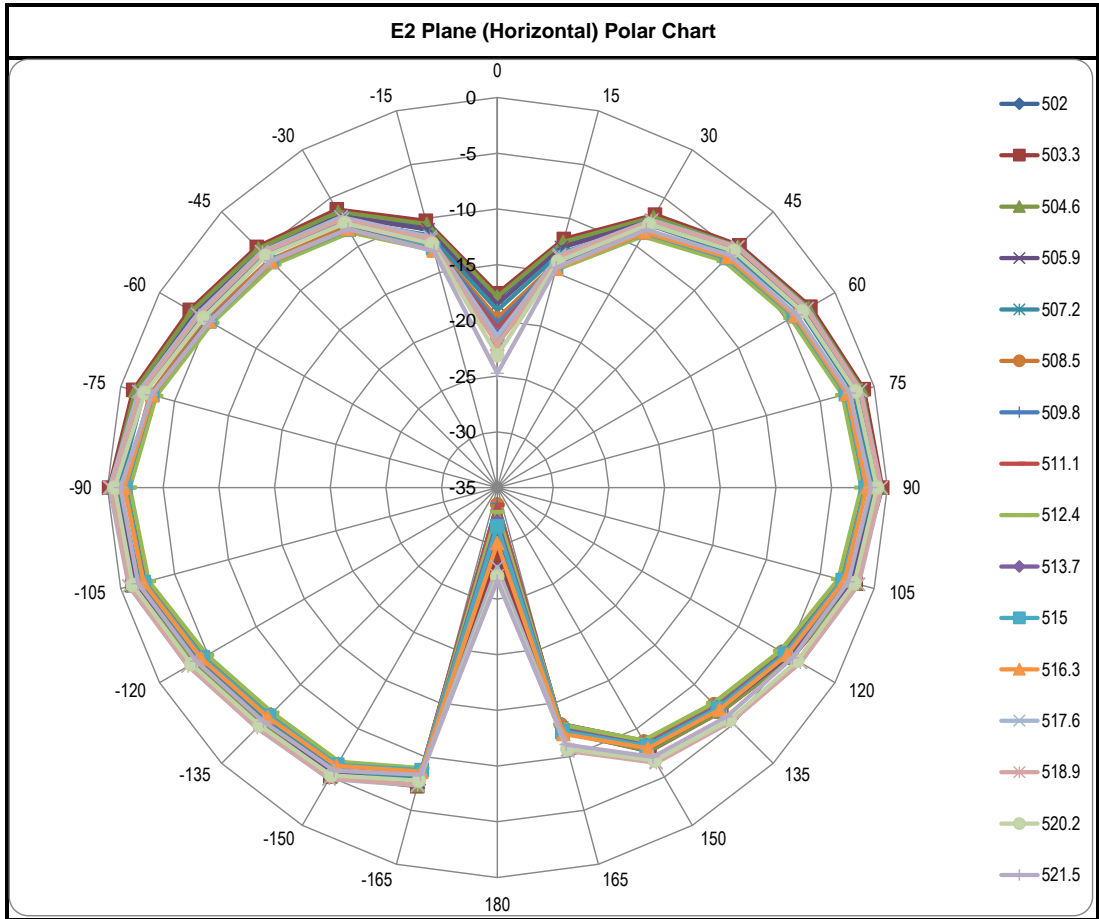




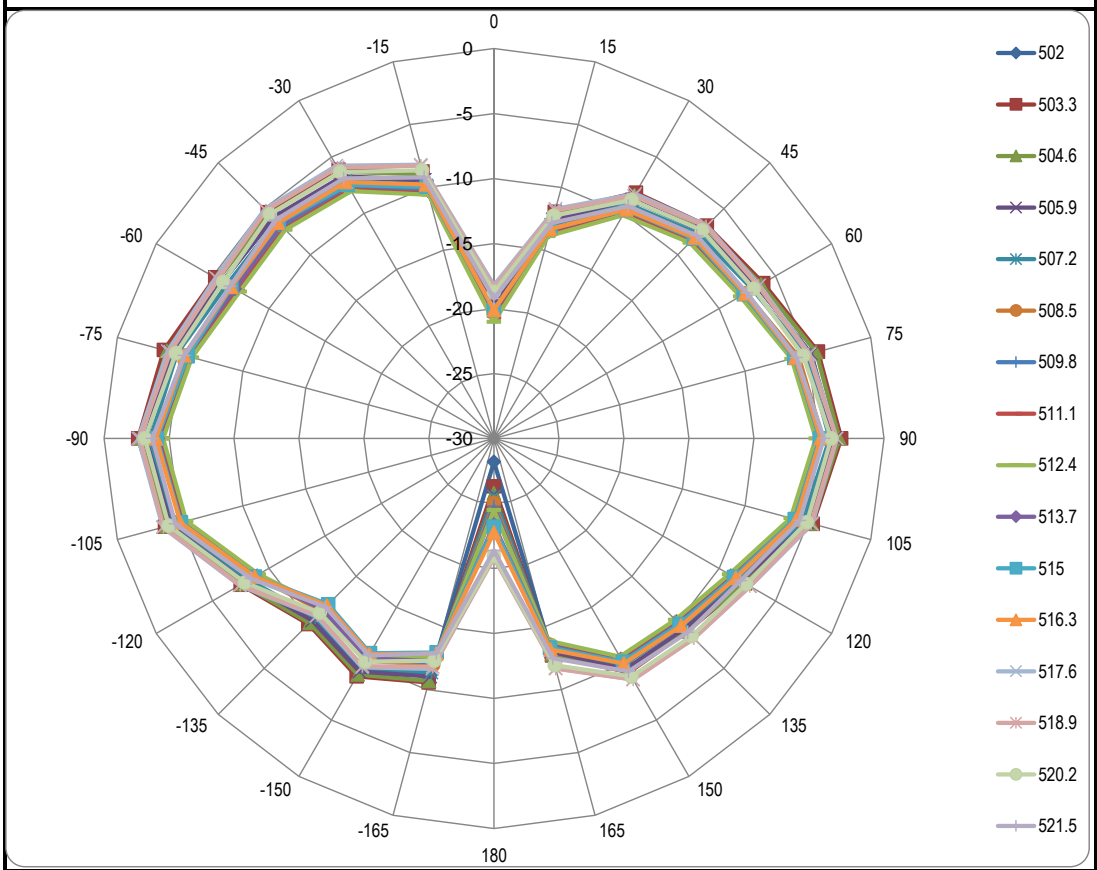








E2 Plane (LHCP) Polar Chart



502.0 MHz

Horizontal + Vertical

$\phi$ [deg]	$\theta$ [deg]													
	0	15	30	45	60	75	90	105	120	135	150	165	180	
0	-15.70	-11.62	-7.06	-4.78	-3.07	-1.45	-0.97	-2.30	-5.08	-7.07	-8.19	-12.58	-21.05	
15	-15.08	-11.58	-7.00	-4.64	-2.98	-1.41	-0.95	-2.27	-5.01	-7.08	-8.37	-13.12	-21.79	
30	-14.24	-11.37	-6.92	-4.54	-2.89	-1.40	-0.93	-2.18	-4.92	-7.17	-8.57	-13.61	-23.39	
45	-13.54	-11.19	-6.90	-4.52	-2.89	-1.44	-0.94	-2.11	-4.79	-7.15	-8.70	-13.93	-25.07	
60	-12.92	-10.81	-6.84	-4.56	-3.03	-1.55	-0.91	-2.01	-4.65	-7.12	-8.73	-13.89	-26.69	
75	-12.63	-10.52	-6.83	-4.62	-3.11	-1.62	-0.95	-1.91	-4.49	-7.01	-8.59	-13.32	-25.40	
90	-12.35	-10.23	-6.79	-4.73	-3.29	-1.75	-0.96	-1.80	-4.33	-6.82	-8.25	-12.46	-23.15	
105	-12.37	-9.93	-6.63	-4.75	-3.45	-1.86	-0.97	-1.71	-4.17	-6.57	-7.81	-11.47	-20.87	
120	-12.56	-9.64	-6.48	-4.78	-3.56	-1.93	-0.95	-1.67	-4.04	-6.25	-7.26	-10.43	-18.96	
135	-12.73	-9.44	-6.35	-4.75	-3.60	-1.93	-0.90	-1.67	-3.99	-5.98	-6.73	-9.56	-17.03	
150	-13.28	-9.38	-6.25	-4.70	-3.57	-1.85	-0.84	-1.66	-3.98	-5.77	-6.29	-8.82	-15.67	
165	-13.85	-9.32	-6.10	-4.64	-3.51	-1.73	-0.73	-1.60	-4.01	-5.60	-5.94	-8.23	-14.67	
180	-14.39	-9.25	-6.03	-4.64	-3.53	-1.66	-0.70	-1.59	-4.06	-5.53	-5.65	-7.86	-13.92	
195	-15.24	-9.39	-6.06	-4.70	-3.55	-1.61	-0.61	-1.61	-4.13	-5.51	-5.52	-7.66	-13.60	
210	-16.15	-9.61	-6.22	-4.87	-3.64	-1.61	-0.63	-1.65	-4.24	-5.55	-5.48	-7.63	-13.54	
225	-17.15	-9.99	-6.46	-5.08	-3.76	-1.65	-0.66	-1.75	-4.35	-5.64	-5.58	-7.73	-13.61	
240	-18.24	-10.43	-6.78	-5.35	-3.94	-1.76	-0.78	-1.86	-4.50	-5.78	-5.78	-8.02	-13.84	
255	-18.92	-10.93	-7.14	-5.62	-4.17	-1.87	-0.90	-2.01	-4.69	-5.97	-6.03	-8.37	-14.23	
270	-19.22	-11.40	-7.42	-5.87	-4.32	-2.01	-1.03	-2.20	-4.88	-6.22	-6.36	-8.84	-14.82	
285	-19.10	-11.68	-7.63	-5.99	-4.36	-2.06	-1.13	-2.33	-5.06	-6.43	-6.66	-9.31	-15.42	
300	-18.81	-11.81	-7.72	-5.96	-4.26	-2.02	-1.16	-2.44	-5.19	-6.64	-6.98	-9.84	-16.16	
315	-18.29	-11.87	-7.65	-5.79	-4.02	-1.89	-1.14	-2.46	-5.28	-6.76	-7.26	-10.36	-17.12	
330	-17.66	-11.83	-7.51	-5.50	-3.72	-1.73	-1.09	-2.45	-5.27	-6.90	-7.52	-11.01	-18.16	
345	-16.89	-11.74	-7.33	-5.17	-3.42	-1.61	-1.04	-2.41	-5.24	-7.01	-7.77	-11.68	-19.12	
360	-15.70	-11.62	-7.06	-4.78	-3.07	-1.45	-0.97	-2.30	-5.08	-7.07	-8.19	-12.58	-21.05	
Avg.	-15.03	-10.70	-6.98	-5.17	-3.72	-1.90	-1.09	-2.15	-4.75	-6.53	-7.12	-10.08	-16.84	
	Peak Value	-0.611	Minimum Value	-26.691										

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.01	-12.32	-7.22	-4.81	-3.09	-1.50	-1.02	-2.34	-5.15	-7.25	-8.39	-13.05	-28.34
15	-17.82	-12.50	-7.22	-4.70	-3.00	-1.44	-0.98	-2.29	-5.08	-7.25	-8.54	-13.46	-25.88
30	-17.64	-12.67	-7.25	-4.67	-2.94	-1.43	-0.94	-2.20	-5.01	-7.36	-8.72	-13.78	-25.37
45	-17.69	-12.97	-7.42	-4.75	-3.01	-1.48	-0.96	-2.16	-4.96	-7.39	-8.85	-14.01	-25.45
60	-18.03	-13.22	-7.60	-4.93	-3.23	-1.64	-0.99	-2.14	-4.92	-7.43	-8.88	-13.93	-26.85
75	-18.96	-13.48	-7.86	-5.15	-3.41	-1.78	-1.09	-2.15	-4.90	-7.42	-8.76	-13.43	-28.60
90	-20.13	-13.48	-8.03	-5.41	-3.72	-1.99	-1.18	-2.15	-4.87	-7.31	-8.47	-12.66	-26.29
105	-21.46	-13.34	-8.00	-5.55	-3.94	-2.15	-1.26	-2.12	-4.79	-7.09	-8.05	-11.73	-23.01
120	-22.64	-12.85	-7.83	-5.57	-4.04	-2.23	-1.25	-2.10	-4.67	-6.78	-7.50	-10.68	-20.36
135	-22.66	-12.18	-7.55	-5.46	-4.01	-2.18	-1.16	-2.01	-4.56	-6.44	-6.94	-9.76	-17.80
150	-21.99	-11.59	-7.23	-5.28	-3.88	-2.02	-1.04	-1.92	-4.44	-6.14	-6.44	-8.95	-16.06
165	-21.09	-11.10	-6.90	-5.08	-3.70	-1.83	-0.85	-1.78	-4.32	-5.84	-6.01	-8.30	-14.82
180	-20.43	-10.65	-6.66	-4.96	-3.64	-1.69	-0.75	-1.69	-4.24	-5.67	-5.68	-7.88	-13.98
195	-20.19	-10.48	-6.55	-4.93	-3.60	-1.61	-0.62	-1.64	-4.20	-5.57	-5.52	-7.67	-13.70
210	-20.48	-10.46	-6.60	-5.03	-3.67	-1.61	-0.64	-1.65	-4.25	-5.58	-5.50	-7.67	-13.82
225	-20.82	-10.69	-6.76	-5.20	-3.80	-1.68	-0.68	-1.77	-4.38	-5.72	-5.65	-7.87	-14.26
240	-21.50	-11.01	-7.02	-5.43	-3.99	-1.84	-0.86	-1.93	-4.60	-5.96	-5.96	-8.32	-15.12
255	-21.87	-11.43	-7.32	-5.67	-4.24	-2.00	-1.05	-2.17	-4.91	-6.29	-6.33	-8.86	-16.41
270	-21.66	-11.84	-7.57	-5.89	-4.41	-2.20	-1.26	-2.47	-5.24	-6.67	-6.79	-9.54	-18.36
285	-21.12	-12.10	-7.75	-5.99	-4.45	-2.30	-1.42	-2.66	-5.51	-6.98	-7.17	-10.17	-20.68
300	-20.52	-12.23	-7.84	-5.97	-4.35	-2.26	-1.47	-2.79	-5.63	-7.18	-7.49	-10.78	-24.06
315	-19.80	-12.28	-7.76	-5.79	-4.11	-2.11	-1.42	-2.77	-5.64	-7.21	-7.71	-11.27	-29.04
330	-19.16	-12.26	-7.63	-5.51	-3.78	-1.91	-1.31	-2.67	-5.52	-7.25	-7.89	-11.83	-40.53
345	-18.60	-12.24	-7.46	-5.18	-3.46	-1.73	-1.18	-2.53	-5.38	-7.26	-8.06	-12.37	-29.95
360	-18.01	-12.32	-7.22	-4.81	-3.09	-1.50	-1.02	-2.34	-5.15	-7.25	-8.39	-13.05	-28.34
Avg.	-20.07	-12.13	-7.53	-5.45	-3.88	-2.03	-1.23	-2.33	-5.04	-6.83	-7.33	-10.39	-18.55
	Peak Value	-0.624	Minimum Value	-40.532									



Vertical														
$\phi$ [deg]	$\Theta$ [deg]													
	0	15	30	45	60	75	90	105	120	135	150	165	180	
0	-19.54	-19.90	-21.37	-27.03	-27.45	-20.72	-19.98	-22.72	-23.04	-21.04	-21.61	-22.50	-21.94	
15	-18.37	-18.76	-20.22	-23.82	-26.39	-22.76	-22.89	-26.60	-23.33	-21.26	-22.49	-24.38	-23.93	
30	-16.90	-17.25	-18.23	-19.80	-22.31	-24.03	-26.80	-25.99	-21.57	-20.97	-23.28	-27.58	-27.76	
45	-15.66	-15.92	-16.39	-17.44	-18.78	-21.58	-23.42	-20.79	-18.99	-19.87	-23.38	-31.50	-35.78	
60	-14.52	-14.52	-14.78	-15.37	-16.47	-18.27	-18.65	-17.18	-16.86	-18.71	-23.54	-34.04	-41.16	
75	-13.78	-13.59	-13.59	-13.98	-14.78	-16.04	-15.71	-14.60	-14.98	-17.51	-22.62	-29.31	-28.23	
90	-13.15	-13.00	-12.85	-13.09	-13.61	-14.51	-13.97	-12.95	-13.69	-16.55	-21.31	-25.82	-26.04	
105	-12.94	-12.57	-12.33	-12.50	-13.16	-13.76	-12.93	-12.12	-13.00	-16.02	-20.42	-23.90	-24.96	
120	-13.01	-12.46	-12.23	-12.56	-13.34	-13.79	-12.75	-11.94	-12.72	-15.67	-19.94	-22.91	-24.56	
135	-13.19	-12.74	-12.54	-12.96	-14.01	-14.53	-13.25	-12.94	-13.05	-15.97	-20.08	-22.94	-24.93	
150	-13.91	-13.36	-13.20	-13.78	-15.26	-15.97	-14.46	-13.99	-13.96	-16.72	-21.02	-24.25	-26.33	
165	-14.76	-14.06	-13.85	-14.88	-17.13	-18.41	-16.43	-15.45	-15.56	-18.34	-23.43	-26.65	-29.43	
180	-15.64	-14.84	-14.71	-16.15	-19.66	-22.65	-19.94	-18.01	-18.04	-20.71	-27.14	-31.72	-32.50	
195	-16.91	-15.91	-15.76	-17.56	-22.52	-31.95	-25.99	-22.93	-21.99	-24.29	-34.74	-34.12	-29.97	
210	-18.15	-17.10	-16.94	-19.27	-24.88	-31.22	-30.03	-36.62	-28.29	-26.74	-29.65	-27.70	-25.61	
225	-19.59	-18.28	-18.17	-20.58	-24.94	-23.38	-22.58	-26.61	-26.32	-23.23	-23.28	-22.71	-22.18	
240	-21.02	-19.41	-19.47	-22.41	-23.64	-19.40	-18.20	-19.82	-20.91	-19.67	-19.72	-19.86	-19.77	
255	-21.99	-20.56	-20.97	-25.08	-22.48	-17.06	-15.57	-16.51	-17.80	-17.44	-17.75	-18.07	-18.26	
270	-22.89	-21.63	-22.12	-29.10	-21.64	-15.69	-13.87	-14.51	-15.94	-16.23	-16.56	-17.10	-17.37	
285	-23.41	-22.07	-23.15	-35.15	-21.04	-14.82	-13.03	-13.64	-15.17	-15.66	-16.21	-16.76	-16.95	
300	-23.69	-22.17	-23.60	-36.68	-21.07	-14.62	-12.83	-13.49	-15.32	-15.96	-16.52	-16.91	-16.92	
315	-23.63	-22.36	-23.44	-33.36	-21.24	-14.91	-13.21	-14.19	-16.24	-16.85	-17.27	-17.61	-17.41	
330	-23.01	-22.04	-23.11	-32.76	-22.18	-15.82	-14.29	-15.65	-17.84	-18.05	-18.40	-18.62	-18.18	
345	-21.76	-21.40	-22.90	-32.12	-24.23	-17.43	-16.04	-17.94	-20.06	-19.54	-19.72	-19.98	-19.49	
360	-19.54	-19.90	-21.37	-27.03	-27.45	-20.72	-19.98	-22.72	-23.04	-21.04	-21.61	-22.50	-21.94	
Avg.	-16.66	-16.20	-16.26	-17.31	-18.20	-17.24	-16.00	-16.00	-16.73	-18.27	-20.39	-21.62	-21.70	
	Peak Value	-11.944	Minimum Value	-41.158										

RHCP														
$\phi$ [deg]	$\Theta$ [deg]													
	0	15	30	45	60	75	90	105	120	135	150	165	180	
0	-17.93	-18.57	-11.86	-8.17	-5.61	-4.19	-4.07	-5.40	-7.84	-10.44	-12.78	-19.54	-21.98	
15	-16.97	-18.63	-11.89	-8.00	-5.46	-4.00	-3.89	-5.08	-7.39	-9.97	-12.53	-19.19	-22.11	
30	-15.74	-18.41	-12.03	-8.00	-5.31	-3.83	-3.58	-4.66	-6.87	-9.53	-12.11	-18.45	-23.61	
45	-14.95	-18.39	-12.42	-8.21	-5.35	-3.76	-3.40	-4.33	-6.40	-9.00	-11.60	-17.60	-26.20	
60	-14.36	-18.61	-13.07	-8.60	-5.62	-3.83	-3.25	-4.07	-6.04	-8.55	-11.12	-16.49	-31.01	
75	-14.30	-19.11	-14.05	-9.23	-6.00	-4.00	-3.31	-3.94	-5.76	-8.11	-10.49	-15.21	-46.07	
90	-14.48	-19.99	-15.17	-10.13	-6.67	-4.37	-3.46	-3.91	-5.60	-7.75	-9.81	-13.95	-27.28	
105	-15.18	-21.56	-16.35	-11.12	-7.40	-4.82	-3.71	-4.01	-5.56	-7.46	-9.21	-12.86	-23.66	
120	-16.33	-24.20	-17.14	-11.82	-8.05	-5.31	-4.02	-4.38	-5.58	-7.19	-8.65	-11.89	-21.19	
135	-17.66	-26.52	-17.01	-12.02	-8.37	-5.66	-4.28	-4.68	-5.72	-7.04	-8.22	-11.19	-19.22	
150	-19.84	-26.70	-15.98	-11.62	-8.30	-5.68	-4.43	-4.79	-5.90	-7.01	-7.97	-10.74	-18.02	
165	-22.42	-24.32	-14.90	-10.94	-7.88	-5.46	-4.38	-4.79	-6.07	-7.08	-7.94	-10.51	-17.58	
180	-25.24	-21.82	-13.90	-10.27	-7.37	-5.11	-4.24	-4.82	-6.28	-7.29	-7.99	-10.63	-17.53	
195	-29.11	-20.08	-13.08	-9.71	-6.89	-4.72	-3.98	-4.77	-6.48	-7.63	-8.31	-10.97	-18.14	
210	-32.91	-18.86	-12.57	-9.27	-6.48	-4.40	-3.81	-4.77	-6.76	-8.10	-8.78	-11.59	-19.31	
225	-38.78	-18.37	-12.31	-9.13	-6.26	-4.22	-3.67	-4.80	-7.03	-8.78	-9.57	-12.59	-20.98	
240	-44.26	-18.18	-12.26	-9.05	-6.16	-4.16	-3.74	-4.93	-7.45	-9.57	-10.58	-13.93	-23.09	
255	-41.00	-18.18	-12.27	-9.08	-6.25	-4.23	-3.89	-5.21	-8.00	-10.47	-11.60	-15.45	-24.62	
270	-37.13	-18.22	-12.36	-9.18	-6.36	-4.42	-4.13	-5.61	-8.59	-11.46	-12.81	-17.18	-25.35	
285	-32.37	-18.36	-12.38	-9.23	-6.51	-4.67	-4.46	-6.03	-9.20	-12.23	-13.61	-18.61	-24.53	
300	-28.99	-18.51	-12.38	-9.23	-6.60	-4.84	-4.72	-6.38	-9.55	-12.60	-14.02	-19.68	-23.49	
315	-25.44	-18.54	-12.31	-9.12	-6.54	-4.87	-4.83	-6.50	-9.62	-12.43	-13.98	-20.00	-22.72	
330	-22.71	-18.66	-12.23	-8.89	-6.34	-4.78	-4.75	-6.32	-9.25	-11.99	-13.69	-20.16	-21.19	
345	-20.44	-18.67	-12.06	-8.57	-6.04	-4.57	-4.51	-5.98	-8.71	-11.24	-13.29	-20.04	-20.62	
360	-17.93	-18.57	-11.86	-8.17	-5.61	-4.19	-4.07	-5.40	-7.84	-10.44	-12.78	-19.54	-21.98	
Avg.	-18.99	-19.65	-13.31	-9.56	-6.67	-4.72	-4.18	-5.12	-7.13	-9.09	-10.54	-14.22	-21.61	
	Peak Value	-3.255	Minimum Value	-46.066										

LHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-19.66	-12.60	-8.80	-7.45	-6.61	-4.75	-3.88	-5.22	-8.36	-9.75	-10.04	-13.56	-28.21
15	-19.59	-12.53	-8.71	-7.33	-6.59	-4.88	-4.03	-5.49	-8.76	-10.22	-10.48	-14.36	-33.29
30	-19.60	-12.33	-8.52	-7.14	-6.59	-5.09	-4.32	-5.79	-9.33	-10.95	-11.10	-15.33	-36.38
45	-19.14	-12.11	-8.33	-6.94	-6.54	-5.26	-4.58	-6.08	-9.89	-11.76	-11.82	-16.38	-31.46
60	-18.41	-11.60	-8.02	-6.73	-6.51	-5.44	-4.72	-6.23	-10.29	-12.65	-12.47	-17.34	-28.70
75	-17.59	-11.17	-7.74	-6.46	-6.24	-5.38	-4.71	-6.19	-10.46	-13.51	-13.09	-17.85	-25.44
90	-16.47	-10.71	-7.48	-6.20	-5.96	-5.19	-4.54	-5.96	-10.29	-13.99	-13.46	-17.83	-25.28
105	-15.58	-10.23	-7.12	-5.89	-5.69	-4.92	-4.27	-5.56	-9.82	-13.87	-13.40	-17.11	-24.11
120	-14.93	-9.80	-6.87	-5.73	-5.46	-4.61	-3.90	-5.01	-9.28	-13.38	-12.88	-15.89	-22.93
135	-14.41	-9.53	-6.74	-5.65	-5.36	-4.33	-3.57	-4.67	-8.81	-12.60	-12.09	-14.60	-21.04
150	-14.36	-9.46	-6.74	-5.69	-5.36	-4.17	-3.34	-4.55	-8.45	-11.84	-11.22	-13.28	-19.45
165	-14.50	-9.46	-6.72	-5.81	-5.48	-4.13	-3.18	-4.43	-8.23	-10.99	-10.26	-12.12	-17.79
180	-14.77	-9.50	-6.81	-6.03	-5.84	-4.27	-3.23	-4.39	-8.03	-10.31	-9.46	-11.13	-16.40
195	-15.42	-9.77	-7.02	-6.35	-6.25	-4.52	-3.29	-4.47	-7.91	-9.64	-8.76	-10.39	-15.47
210	-16.25	-10.16	-7.36	-6.82	-6.82	-4.85	-3.47	-4.56	-7.80	-9.08	-8.22	-9.85	-14.88
225	-17.18	-10.68	-7.77	-7.25	-7.36	-5.16	-3.66	-4.72	-7.72	-8.52	-7.79	-9.44	-14.49
240	-18.26	-11.23	-8.22	-7.75	-7.91	-5.49	-3.84	-4.81	-7.57	-8.13	-7.53	-9.31	-14.39
255	-18.95	-11.84	-8.73	-8.23	-8.37	-5.65	-3.93	-4.84	-7.42	-7.87	-7.44	-9.31	-14.64
270	-19.29	-12.41	-9.10	-8.60	-8.59	-5.71	-3.95	-4.85	-7.29	-7.76	-7.47	-9.53	-15.23
285	-19.31	-12.73	-9.40	-8.78	-8.45	-5.52	-3.84	-4.74	-7.18	-7.75	-7.64	-9.85	-15.98
300	-19.25	-12.86	-9.54	-8.73	-8.07	-5.22	-3.69	-4.68	-7.17	-7.91	-7.93	-10.31	-17.04
315	-19.22	-12.92	-9.47	-8.50	-7.58	-4.93	-3.57	-4.64	-7.27	-8.14	-8.29	-10.86	-18.52
330	-19.28	-12.84	-9.29	-8.15	-7.16	-4.71	-3.54	-4.75	-7.49	-8.51	-8.72	-11.57	-21.15
345	-19.42	-12.73	-9.12	-7.83	-6.86	-4.68	-3.63	-4.92	-7.82	-9.07	-9.21	-12.36	-24.46
360	-19.66	-12.60	-8.80	-7.45	-6.61	-4.75	-3.88	-5.22	-8.36	-9.75	-10.04	-13.56	-28.21
Avg.	-17.25	-11.29	-8.14	-7.14	-6.80	-5.11	-4.02	-5.20	-8.50	-10.05	-9.75	-12.19	-18.60
Peak Value		-3.184		Minimum Value		-36.383							

AR													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	20.09	9.61	15.19	27.67	24.88	29.88	39.08	39.92	30.36	28.00	16.11	9.60	9.27
15	16.48	9.44	14.82	28.34	23.71	25.86	41.37	32.60	22.10	37.10	18.59	11.34	4.92
30	13.21	9.46	14.01	26.18	22.70	22.77	27.41	23.80	17.03	21.74	24.73	15.00	4.07
45	12.52	9.20	12.72	22.70	23.30	21.27	23.39	19.96	14.05	16.07	38.13	23.08	10.64
60	12.79	8.34	10.97	19.36	25.88	20.72	21.51	18.16	12.40	12.70	22.21	26.25	17.58
75	14.56	7.38	9.17	16.01	37.25	22.00	21.87	17.81	11.56	10.42	16.55	16.43	1.62
90	18.86	6.22	7.62	13.05	27.76	26.49	24.07	18.60	11.57	9.25	13.68	13.16	18.81
105	32.74	4.84	6.26	10.67	20.14	44.38	29.96	21.02	12.36	9.04	12.52	12.39	31.91
120	21.92	3.35	5.50	9.45	16.60	27.89	43.01	28.86	13.57	9.31	12.44	12.91	20.00
135	14.67	2.47	5.50	9.09	15.31	22.39	27.80	64.00	15.07	10.19	13.19	14.25	19.63
150	10.30	2.40	6.25	9.66	15.50	21.24	24.05	37.07	16.73	11.33	14.68	16.76	21.68
165	7.40	3.17	7.15	10.84	17.27	22.31	23.26	33.61	18.16	13.11	17.52	20.70	38.06
180	5.37	4.29	8.25	12.41	21.11	26.35	24.67	32.26	19.95	15.27	21.46	30.77	23.77
195	3.65	5.48	9.48	14.37	28.59	38.68	28.08	35.31	21.73	18.78	31.82	29.43	16.33
210	2.57	6.69	10.72	17.07	34.37	31.75	34.17	37.98	24.42	25.00	29.86	20.03	12.07
225	1.45	7.61	11.84	19.34	23.97	25.30	64.34	46.75	27.99	36.66	19.84	14.92	8.94
240	0.87	8.40	12.84	22.53	20.01	22.36	44.25	43.38	43.49	21.66	15.18	11.70	6.70
255	1.37	9.13	13.94	26.20	18.27	21.73	54.27	33.49	29.59	16.56	12.57	9.39	5.70
270	2.24	9.83	14.62	29.60	17.90	22.57	39.67	27.22	22.58	13.55	10.52	7.66	5.60
285	3.93	10.08	15.40	31.86	19.08	26.20	28.90	22.57	18.77	11.95	9.61	6.64	6.82
300	5.88	10.05	15.83	30.90	21.48	33.06	24.49	20.26	17.32	11.57	9.46	6.15	9.00
315	9.28	10.10	15.80	28.94	24.49	50.56	22.85	19.44	17.45	12.31	9.99	6.34	12.49
330	14.20	9.82	15.50	27.38	26.53	48.35	23.12	20.90	19.92	14.08	11.11	6.79	54.32
345	24.67	9.65	15.52	27.49	26.59	43.87	25.95	24.29	25.80	18.14	12.74	7.63	13.27
360	20.09	9.61	15.19	27.67	24.88	29.88	39.08	39.92	30.36	28.00	16.11	9.60	9.27
Avg.	20.40	7.87	12.57	25.27	27.15	40.00	50.89	50.19	30.31	26.61	26.08	21.11	40.48
Peak Value		64.338		Minimum Value		0.871							

503.3 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.93	-11.09	-6.52	-4.23	-2.52	-0.87	-0.39	-1.66	-4.40	-6.36	-7.45	-11.80	-20.18
15	-14.25	-10.94	-6.45	-4.08	-2.41	-0.85	-0.37	-1.64	-4.33	-6.39	-7.67	-12.29	-21.43
30	-13.35	-10.74	-6.34	-3.94	-2.32	-0.83	-0.36	-1.54	-4.22	-6.41	-7.84	-12.80	-23.25
45	-12.57	-10.44	-6.31	-3.93	-2.33	-0.88	-0.36	-1.47	-4.10	-6.41	-7.95	-13.11	-25.30
60	-11.89	-10.06	-6.21	-3.96	-2.44	-0.97	-0.32	-1.36	-3.94	-6.39	-8.00	-13.01	-27.04
75	-11.42	-9.71	-6.18	-3.99	-2.51	-1.04	-0.35	-1.25	-3.76	-6.25	-7.83	-12.51	-25.12
90	-11.16	-9.39	-6.09	-4.08	-2.68	-1.17	-0.34	-1.13	-3.58	-6.04	-7.52	-11.68	-22.12
105	-11.16	-9.04	-5.92	-4.12	-2.83	-1.27	-0.36	-1.05	-3.44	-5.83	-7.11	-10.75	-20.01
120	-11.35	-8.75	-5.78	-4.12	-2.94	-1.34	-0.33	-0.99	-3.30	-5.51	-6.54	-9.70	-18.09
135	-11.50	-8.65	-5.69	-4.10	-2.99	-1.33	-0.31	-1.01	-3.25	-5.26	-6.04	-8.86	-16.19
150	-12.08	-8.55	-5.56	-4.08	-3.02	-1.27	-0.24	-0.98	-3.26	-5.06	-5.62	-8.15	-14.95
165	-12.75	-8.59	-5.49	-4.06	-2.98	-1.19	-0.16	-0.96	-3.30	-4.93	-5.26	-7.60	-13.99
180	-13.32	-8.57	-5.45	-4.09	-2.99	-1.13	-0.10	-0.98	-3.38	-4.85	-5.01	-7.23	-13.36
195	-14.28	-8.76	-5.52	-4.16	-3.03	-1.07	-0.06	-0.99	-3.48	-4.85	-4.87	-7.04	-12.99
210	-15.22	-9.01	-5.69	-4.34	-3.17	-1.07	-0.07	-1.03	-3.56	-4.89	-4.86	-6.99	-12.89
225	-16.41	-9.45	-5.95	-4.54	-3.28	-1.11	-0.08	-1.11	-3.69	-4.98	-4.94	-7.11	-12.90
240	-17.55	-9.94	-6.27	-4.82	-3.48	-1.23	-0.21	-1.22	-3.81	-5.10	-5.14	-7.37	-13.07
255	-18.13	-10.45	-6.63	-5.14	-3.65	-1.34	-0.31	-1.35	-3.96	-5.27	-5.37	-7.69	-13.39
270	-18.55	-10.89	-6.93	-5.37	-3.83	-1.45	-0.42	-1.52	-4.14	-5.50	-5.69	-8.12	-13.83
285	-18.51	-11.17	-7.11	-5.50	-3.85	-1.47	-0.50	-1.66	-4.28	-5.72	-6.00	-8.61	-14.29
300	-18.14	-11.29	-7.17	-5.42	-3.70	-1.41	-0.52	-1.75	-4.44	-5.90	-6.27	-9.08	-14.99
315	-17.58	-11.33	-7.14	-5.23	-3.45	-1.29	-0.53	-1.77	-4.52	-6.05	-6.56	-9.62	-15.87
330	-16.87	-11.32	-6.94	-4.95	-3.15	-1.16	-0.50	-1.80	-4.56	-6.19	-6.84	-10.28	-17.08
345	-16.20	-11.21	-6.79	-4.61	-2.87	-1.03	-0.43	-1.75	-4.54	-6.29	-7.10	-10.92	-18.11
360	-14.93	-11.09	-6.52	-4.23	-2.52	-0.87	-0.39	-1.66	-4.40	-6.36	-7.45	-11.80	-20.18
Avg.	-14.00	-10.03	-6.40	-4.60	-3.17	-1.33	-0.49	-1.50	-4.04	-5.82	-6.44	-9.38	-16.04
Peak Value		-0.058		Minimum Value		-27.043							

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-17.60	-11.91	-6.71	-4.26	-2.54	-0.94	-0.46	-1.70	-4.49	-6.57	-7.67	-12.30	-28.98
15	-17.42	-12.01	-6.70	-4.14	-2.44	-0.89	-0.40	-1.66	-4.41	-6.59	-7.87	-12.63	-26.86
30	-17.20	-12.25	-6.72	-4.09	-2.38	-0.86	-0.37	-1.56	-4.33	-6.64	-8.01	-12.98	-25.48
45	-17.27	-12.55	-6.91	-4.19	-2.46	-0.93	-0.39	-1.54	-4.30	-6.70	-8.12	-13.19	-25.84
60	-17.63	-12.84	-7.10	-4.39	-2.67	-1.08	-0.41	-1.52	-4.25	-6.74	-8.17	-13.06	-27.25
75	-18.41	-13.13	-7.35	-4.62	-2.86	-1.22	-0.52	-1.53	-4.24	-6.73	-8.06	-12.65	-29.09
90	-19.60	-13.10	-7.51	-4.86	-3.16	-1.44	-0.60	-1.53	-4.19	-6.60	-7.78	-11.92	-25.45
105	-21.13	-12.90	-7.48	-5.03	-3.40	-1.61	-0.69	-1.53	-4.14	-6.44	-7.40	-11.04	-22.44
120	-22.33	-12.39	-7.33	-5.03	-3.50	-1.68	-0.67	-1.48	-4.03	-6.12	-6.82	-9.98	-19.63
135	-22.62	-11.82	-7.08	-4.92	-3.47	-1.62	-0.61	-1.38	-3.91	-5.79	-6.28	-9.10	-17.01
150	-21.82	-11.15	-6.71	-4.74	-3.37	-1.47	-0.46	-1.28	-3.78	-5.49	-5.79	-8.29	-15.38
165	-21.05	-10.64	-6.43	-4.55	-3.20	-1.30	-0.29	-1.16	-3.66	-5.21	-5.35	-7.67	-14.13
180	-20.32	-10.22	-6.19	-4.46	-3.12	-1.17	-0.16	-1.09	-3.58	-5.00	-5.05	-7.25	-13.41
195	-20.18	-10.04	-6.10	-4.43	-3.10	-1.08	-0.07	-1.02	-3.56	-4.92	-4.88	-7.04	-13.09
210	-20.33	-10.04	-6.14	-4.53	-3.20	-1.08	-0.08	-1.03	-3.59	-4.93	-4.88	-7.04	-13.18
225	-21.01	-10.29	-6.32	-4.68	-3.32	-1.15	-0.11	-1.13	-3.73	-5.08	-5.03	-7.28	-13.68
240	-21.54	-10.63	-6.54	-4.92	-3.53	-1.32	-0.31	-1.31	-3.94	-5.32	-5.35	-7.71	-14.53
255	-21.77	-11.05	-6.85	-5.19	-3.72	-1.50	-0.49	-1.54	-4.23	-5.65	-5.73	-8.25	-15.88
270	-21.71	-11.44	-7.11	-5.39	-3.92	-1.68	-0.70	-1.83	-4.57	-6.03	-6.19	-8.93	-17.77
285	-21.06	-11.69	-7.26	-5.50	-3.96	-1.76	-0.84	-2.05	-4.80	-6.34	-6.58	-9.57	-20.05
300	-20.29	-11.80	-7.32	-5.42	-3.80	-1.70	-0.89	-2.15	-4.95	-6.51	-6.85	-10.12	-23.30
315	-19.34	-11.84	-7.29	-5.24	-3.55	-1.55	-0.85	-2.12	-4.93	-6.55	-7.07	-10.63	-27.85
330	-18.67	-11.85	-7.09	-4.96	-3.23	-1.36	-0.74	-2.04	-4.84	-6.57	-7.24	-11.17	-38.78
345	-18.17	-11.82	-6.93	-4.62	-2.91	-1.17	-0.59	-1.89	-4.70	-6.57	-7.41	-11.66	-30.48
360	-17.60	-11.91	-6.71	-4.26	-2.54	-0.94	-0.46	-1.70	-4.49	-6.57	-7.67	-12.30	-28.98
Avg.	-19.77	-11.72	-7.04	-4.92	-3.35	-1.48	-0.66	-1.71	-4.37	-6.17	-6.68	-9.73	-17.96
Peak Value		-0.071		Minimum Value		-38.779							

Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.32	-18.73	-20.14	-26.26	-26.27	-19.21	-18.69	-21.36	-21.58	-19.74	-20.48	-21.42	-20.79
15	-17.11	-17.57	-19.03	-22.88	-25.12	-21.51	-21.71	-25.02	-21.80	-19.85	-21.27	-23.51	-22.89
30	-15.65	-16.05	-17.04	-18.59	-21.00	-22.67	-25.66	-24.62	-20.05	-19.38	-21.98	-26.65	-27.20
45	-14.36	-14.59	-15.24	-16.25	-17.67	-20.14	-22.11	-19.26	-17.61	-18.35	-22.20	-30.32	-34.58
60	-13.24	-13.32	-13.56	-14.22	-15.29	-16.89	-17.26	-15.78	-15.44	-17.39	-22.08	-32.05	-40.44
75	-12.39	-12.34	-12.46	-12.75	-13.52	-14.78	-14.40	-13.32	-13.62	-16.05	-20.81	-27.41	-27.35
90	-11.84	-11.80	-11.65	-11.88	-12.45	-13.30	-12.69	-11.67	-12.40	-15.16	-19.93	-24.50	-24.84
105	-11.62	-11.34	-11.14	-11.36	-11.95	-12.52	-11.73	-10.89	-11.69	-14.63	-19.02	-22.64	-23.68
120	-11.71	-11.22	-11.03	-11.33	-12.09	-12.55	-11.50	-10.69	-11.45	-14.32	-18.58	-21.65	-23.32
135	-11.85	-11.52	-11.32	-11.74	-12.79	-13.32	-12.08	-11.83	-11.74	-14.63	-18.81	-21.65	-23.83
150	-12.56	-12.01	-11.89	-12.59	-14.09	-14.81	-13.29	-12.79	-12.77	-15.33	-19.74	-23.04	-25.28
165	-13.45	-12.83	-12.61	-13.71	-15.91	-17.30	-15.35	-14.34	-14.30	-16.90	-21.93	-25.65	-28.87
180	-14.28	-13.58	-13.50	-14.96	-18.40	-21.52	-18.99	-17.01	-16.83	-19.43	-25.92	-30.89	-32.36
195	-15.57	-14.70	-14.55	-16.36	-21.45	-31.14	-25.32	-22.26	-20.91	-22.89	-32.61	-33.93	-29.19
210	-16.82	-15.73	-15.76	-18.02	-23.98	-29.19	-27.79	-36.20	-26.53	-24.84	-28.09	-26.50	-24.80
225	-18.26	-17.03	-16.90	-19.54	-24.03	-21.92	-20.89	-24.51	-24.53	-21.57	-21.73	-21.45	-20.76
240	-19.76	-18.26	-18.40	-21.27	-22.54	-18.07	-16.74	-18.28	-19.22	-18.16	-18.46	-18.62	-18.51
255	-20.60	-19.33	-19.73	-24.30	-21.36	-15.66	-14.13	-15.00	-16.26	-16.07	-16.41	-16.85	-17.00
270	-21.42	-20.12	-20.96	-28.56	-20.54	-14.34	-12.52	-13.12	-14.47	-14.88	-15.34	-15.83	-16.08
285	-22.02	-20.67	-21.80	-34.11	-19.93	-13.42	-11.71	-12.32	-13.81	-14.45	-15.05	-15.60	-15.64
300	-22.24	-20.86	-21.87	-33.28	-19.76	-13.28	-11.46	-12.23	-13.98	-14.75	-15.33	-15.77	-15.69
315	-22.33	-20.94	-21.85	-29.97	-19.84	-13.62	-11.93	-12.90	-14.95	-15.64	-16.12	-16.46	-16.16
330	-21.55	-20.70	-21.70	-30.45	-20.80	-14.60	-13.12	-14.40	-16.69	-16.98	-17.39	-17.57	-17.11
345	-20.60	-20.06	-21.70	-30.96	-23.11	-16.12	-14.82	-16.76	-18.93	-18.40	-18.75	-18.95	-18.37
360	-18.32	-18.73	-20.14	-26.26	-26.27	-19.21	-18.69	-21.36	-21.58	-19.74	-20.48	-21.42	-20.79
Avg.	-15.33	-14.95	-15.04	-16.12	-16.99	-15.96	-14.74	-14.73	-15.40	-16.93	-19.14	-20.45	-20.50
Peak Value	-10.692	Minimum Value -40.440											

RHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-17.08	-18.57	-11.54	-7.66	-5.04	-3.60	-3.52	-4.73	-7.14	-9.77	-12.18	-18.98	-21.39
15	-16.02	-18.44	-11.53	-7.50	-4.85	-3.41	-3.29	-4.41	-6.65	-9.27	-11.90	-18.41	-21.97
30	-14.79	-18.16	-11.63	-7.46	-4.70	-3.20	-2.99	-3.98	-6.09	-8.70	-11.40	-17.64	-23.45
45	-13.92	-18.01	-12.09	-7.63	-4.74	-3.13	-2.78	-3.60	-5.61	-8.19	-10.82	-16.74	-26.18
60	-13.31	-17.94	-12.73	-8.09	-5.01	-3.18	-2.59	-3.33	-5.21	-7.75	-10.32	-15.53	-31.96
75	-13.08	-18.18	-13.68	-8.74	-5.37	-3.36	-2.64	-3.19	-4.91	-7.25	-9.64	-14.29	-38.21
90	-13.23	-19.04	-14.88	-9.64	-6.07	-3.73	-2.78	-3.15	-4.73	-6.86	-9.01	-13.09	-25.41
105	-13.85	-20.40	-16.18	-10.74	-6.84	-4.21	-3.04	-3.27	-4.70	-6.60	-8.42	-12.05	-22.27
120	-14.90	-22.66	-17.21	-11.55	-7.52	-4.71	-3.37	-3.63	-4.73	-6.33	-7.84	-11.05	-20.08
135	-15.99	-25.78	-17.27	-11.77	-7.92	-5.08	-3.68	-3.98	-4.86	-6.20	-7.45	-10.38	-18.16
150	-17.93	-28.04	-16.23	-11.36	-7.87	-5.16	-3.85	-4.07	-5.08	-6.17	-7.22	-9.98	-17.08
165	-20.20	-25.48	-15.06	-10.68	-7.45	-4.96	-3.81	-4.14	-5.27	-6.28	-7.16	-9.82	-16.75
180	-22.63	-22.78	-13.90	-9.98	-6.93	-4.60	-3.66	-4.18	-5.50	-6.52	-7.31	-9.93	-16.92
195	-25.81	-20.55	-13.03	-9.34	-6.40	-4.17	-3.44	-4.14	-5.77	-6.91	-7.64	-10.34	-17.57
210	-28.77	-19.35	-12.41	-8.91	-5.98	-3.83	-3.27	-4.16	-6.01	-7.39	-8.18	-11.03	-18.70
225	-32.15	-18.61	-12.17	-8.69	-5.75	-3.65	-3.09	-4.15	-6.35	-8.16	-9.07	-12.16	-20.93
240	-36.18	-18.30	-11.99	-8.64	-5.64	-3.60	-3.18	-4.31	-6.77	-9.01	-10.10	-13.57	-23.12
255	-37.34	-18.29	-12.03	-8.67	-5.67	-3.67	-3.31	-4.58	-7.31	-9.95	-11.27	-15.20	-24.64
270	-36.12	-18.38	-12.08	-8.71	-5.83	-3.86	-3.58	-4.99	-7.93	-10.96	-12.51	-17.09	-24.72
285	-32.56	-18.43	-12.07	-8.79	-5.99	-4.09	-3.91	-5.43	-8.53	-11.77	-13.33	-18.56	-23.46
300	-28.67	-18.50	-12.09	-8.75	-6.02	-4.28	-4.17	-5.77	-8.93	-12.14	-13.71	-19.54	-22.43
315	-24.80	-18.58	-12.06	-8.66	-5.97	-4.33	-4.30	-5.88	-8.94	-11.91	-13.63	-19.85	-21.53
330	-22.04	-18.72	-11.87	-8.43	-5.80	-4.25	-4.22	-5.74	-8.62	-11.40	-13.21	-19.85	-20.32
345	-19.66	-18.76	-11.69	-8.05	-5.52	-4.02	-3.96	-5.36	-8.04	-10.58	-12.76	-19.57	-19.92
360	-17.08	-18.57	-11.54	-7.66	-5.04	-3.60	-3.52	-4.73	-7.14	-9.77	-12.18	-18.98	-21.39
Avg.	-17.76	-19.55	-13.07	-9.11	-6.12	-4.14	-3.58	-4.44	-6.36	-8.34	-9.87	-13.56	-20.89
Peak Value	-2.590	Minimum Value -38.211											

LHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-19.03	-11.94	-8.16	-6.85	-6.09	-4.19	-3.28	-4.60	-7.70	-9.01	-9.23	-12.72	-26.31
15	-19.01	-11.79	-8.06	-6.72	-6.08	-4.35	-3.47	-4.91	-8.16	-9.52	-9.73	-13.51	-30.75
30	-18.84	-11.61	-7.86	-6.49	-6.07	-4.59	-3.79	-5.20	-8.79	-10.29	-10.36	-14.52	-36.74
45	-18.30	-11.28	-7.65	-6.34	-6.03	-4.81	-4.07	-5.58	-9.42	-11.16	-11.11	-15.57	-32.66
60	-17.44	-10.83	-7.31	-6.08	-5.94	-4.96	-4.23	-5.75	-9.89	-12.07	-11.83	-16.57	-28.73
75	-16.41	-10.37	-7.04	-5.77	-5.66	-4.86	-4.22	-5.70	-10.11	-13.12	-12.52	-17.24	-25.34
90	-15.38	-9.89	-6.71	-5.49	-5.34	-4.67	-4.02	-5.41	-9.90	-13.66	-12.90	-17.25	-24.88
105	-14.52	-9.37	-6.35	-5.19	-5.03	-4.34	-3.72	-5.04	-9.43	-13.69	-12.96	-16.64	-23.92
120	-13.87	-8.93	-6.11	-4.98	-4.80	-4.01	-3.30	-4.41	-8.83	-13.18	-12.42	-15.42	-22.42
135	-13.40	-8.74	-6.00	-4.91	-4.68	-3.72	-2.99	-4.06	-8.33	-12.34	-11.63	-14.16	-20.57
150	-13.38	-8.60	-5.95	-4.97	-4.74	-3.55	-2.73	-3.91	-7.92	-11.54	-10.74	-12.79	-19.07
165	-13.61	-8.68	-6.00	-5.12	-4.89	-3.55	-2.61	-3.80	-7.69	-10.66	-9.75	-11.59	-17.27
180	-13.86	-8.74	-6.12	-5.39	-5.24	-3.72	-2.62	-3.80	-7.51	-9.80	-8.88	-10.57	-15.88
195	-14.60	-9.06	-6.36	-5.72	-5.71	-3.99	-2.73	-3.87	-7.35	-9.08	-8.13	-9.77	-14.85
210	-15.41	-9.43	-6.73	-6.21	-6.38	-4.34	-2.89	-3.92	-7.22	-8.47	-7.58	-9.17	-14.21
225	-16.53	-10.02	-7.14	-6.65	-6.91	-4.66	-3.09	-4.08	-7.09	-7.83	-7.06	-8.75	-13.65
240	-17.61	-10.62	-7.62	-7.15	-7.54	-4.98	-3.26	-4.16	-6.87	-7.37	-6.81	-8.57	-13.52
255	-18.19	-11.23	-8.11	-7.69	-7.94	-5.15	-3.32	-4.16	-6.66	-7.08	-6.66	-8.53	-13.73
270	-18.63	-11.74	-8.51	-8.07	-8.15	-5.15	-3.29	-4.12	-6.50	-6.95	-6.71	-8.71	-14.20
285	-18.68	-12.07	-8.79	-8.24	-7.96	-4.91	-3.14	-4.02	-6.34	-6.96	-6.89	-9.07	-14.85
300	-18.55	-12.21	-8.86	-8.12	-7.52	-4.56	-2.98	-3.93	-6.35	-7.08	-7.14	-9.49	-15.86
315	-18.49	-12.24	-8.83	-7.85	-7.01	-4.27	-2.89	-3.90	-6.46	-7.35	-7.51	-10.05	-17.25
330	-18.44	-12.19	-8.62	-7.53	-6.56	-4.09	-2.90	-4.04	-6.73	-7.75	-7.98	-10.79	-19.86
345	-18.81	-12.05	-8.49	-7.23	-6.28	-4.06	-2.97	-4.24	-7.11	-8.32	-8.48	-11.55	-22.80
360	-19.03	-11.94	-8.16	-6.85	-6.09	-4.19	-3.28	-4.60	-7.70	-9.01	-9.23	-12.72	-26.31
Avg.	-16.37	-10.54	-7.45	-6.49	-6.24	-4.55	-3.42	-4.57	-7.87	-9.39	-9.06	-11.47	-17.76
Peak Value		-2.613		Minimum Value		-36.739							

AR													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	19.02	8.78	14.32	26.65	24.40	29.31	37.20	42.86	29.85	27.22	15.47	9.23	11.18
15	15.34	8.76	14.10	26.94	23.00	25.33	40.04	30.71	21.25	36.94	18.14	11.21	6.62
30	12.81	8.87	13.39	25.08	22.08	21.96	26.72	23.08	16.24	20.82	24.47	15.01	3.82
45	12.15	8.66	12.03	22.60	22.63	20.32	22.62	18.91	13.31	15.42	35.48	23.50	8.95
60	12.65	8.23	10.39	18.76	25.40	19.79	20.53	17.18	11.60	12.26	21.24	24.48	14.71
75	14.45	7.50	8.76	15.44	35.50	21.31	20.82	16.86	10.74	9.76	15.69	15.47	4.02
90	18.22	6.32	7.16	12.59	27.48	25.40	22.96	17.76	10.77	8.57	13.14	12.58	30.35
105	28.27	5.01	5.81	10.20	19.68	42.26	28.24	19.88	11.51	8.25	11.85	11.76	20.49
120	24.57	3.63	4.97	8.86	16.16	27.82	48.43	27.03	12.71	8.52	11.77	12.16	17.47
135	16.60	2.46	4.87	8.50	14.69	22.16	28.02	46.91	14.10	9.38	12.54	13.39	17.22
150	11.84	1.86	5.49	9.07	14.98	20.70	23.85	40.42	15.80	10.46	13.99	15.90	18.89
165	8.82	2.53	6.39	10.19	16.69	21.83	23.28	34.08	17.18	12.13	16.60	19.87	30.55
180	6.63	3.50	7.53	11.75	20.27	25.87	24.49	33.09	18.78	14.57	20.88	28.66	24.53
195	4.91	4.74	8.73	13.75	28.11	39.58	27.80	36.24	20.82	18.10	31.04	29.56	16.17
210	3.79	5.75	10.01	16.25	32.78	30.57	33.18	37.12	23.15	24.11	29.25	19.46	11.95
225	2.90	6.78	11.00	18.64	23.47	24.72	71.46	47.59	27.44	34.57	18.78	14.26	8.04
240	2.06	7.64	12.18	21.37	19.29	22.02	46.86	41.77	44.22	20.53	14.56	11.04	5.97
255	1.92	8.28	13.08	24.97	17.70	21.39	61.83	32.34	28.50	15.74	11.73	8.73	5.09
270	2.33	8.76	13.87	28.77	17.56	22.61	35.47	26.07	21.66	12.87	9.84	6.97	5.34
285	3.56	9.11	14.57	30.04	18.95	26.58	27.13	21.85	18.03	11.37	9.00	6.06	6.77
300	5.61	9.19	14.71	28.75	21.31	35.80	23.33	19.56	16.65	10.96	8.85	5.65	8.84
315	9.16	9.13	14.73	26.67	24.41	49.34	21.82	18.90	16.97	11.81	9.41	5.84	12.34
330	13.80	8.89	14.67	25.78	27.12	40.77	22.40	20.21	19.31	13.68	10.69	6.39	31.60
345	26.23	8.68	14.80	26.53	27.16	54.50	24.90	23.83	25.41	17.78	12.36	7.30	15.70
360	19.02	8.78	14.32	26.65	24.40	29.31	37.20	42.86	29.85	27.22	15.47	9.23	11.18
Avg.	18.48	7.19	11.78	23.83	26.07	42.20	57.97	38.35	30.82	25.67	24.24	20.17	22.50
Peak Value		71.458		Minimum Value		1.860							

504.6 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-15.10	-11.32	-6.76	-4.41	-2.72	-1.05	-0.53	-1.76	-4.45	-6.37	-7.50	-11.82	-20.37
15	-14.42	-11.18	-6.69	-4.25	-2.58	-1.02	-0.52	-1.73	-4.36	-6.39	-7.69	-12.34	-21.92
30	-13.54	-11.04	-6.59	-4.14	-2.50	-1.02	-0.52	-1.65	-4.26	-6.41	-7.88	-12.84	-24.14
45	-12.72	-10.70	-6.53	-4.10	-2.52	-1.04	-0.52	-1.58	-4.13	-6.44	-8.00	-13.08	-26.29
60	-12.04	-10.28	-6.44	-4.13	-2.50	-1.06	-0.49	-1.47	-3.99	-6.42	-7.99	-13.00	-28.39
75	-11.55	-9.93	-6.40	-4.20	-2.69	-1.20	-0.49	-1.37	-3.82	-6.28	-7.88	-12.49	-25.82
90	-11.27	-9.60	-6.29	-4.24	-2.86	-1.33	-0.50	-1.25	-3.67	-6.10	-7.55	-11.62	-23.09
105	-11.25	-9.21	-6.16	-4.32	-3.01	-1.44	-0.52	-1.16	-3.49	-5.86	-7.14	-10.72	-19.94
120	-11.46	-8.96	-6.01	-4.32	-3.14	-1.51	-0.49	-1.10	-3.39	-5.58	-6.60	-9.76	-18.11
135	-11.61	-8.83	-5.88	-4.33	-3.19	-1.52	-0.45	-1.08	-3.31	-5.32	-6.10	-8.89	-16.30
150	-12.24	-8.78	-5.79	-4.26	-3.21	-1.47	-0.40	-1.04	-3.33	-5.14	-5.70	-8.21	-15.04
165	-12.90	-8.80	-5.72	-4.27	-3.20	-1.38	-0.31	-1.07	-3.38	-4.99	-5.36	-7.68	-14.08
180	-13.56	-8.81	-5.67	-4.30	-3.21	-1.32	-0.26	-1.05	-3.47	-4.95	-5.11	-7.34	-13.44
195	-14.55	-9.00	-5.75	-4.38	-3.26	-1.25	-0.21	-1.09	-3.55	-4.94	-4.98	-7.13	-13.11
210	-15.45	-9.30	-5.94	-4.59	-3.42	-1.28	-0.23	-1.14	-3.62	-4.94	-4.96	-7.10	-13.05
225	-16.72	-9.76	-6.19	-4.80	-3.51	-1.32	-0.24	-1.22	-3.75	-5.07	-5.04	-7.22	-13.08
240	-17.74	-10.27	-6.54	-5.07	-3.71	-1.43	-0.37	-1.33	-3.86	-5.21	-5.25	-7.46	-13.27
255	-18.49	-10.75	-6.91	-5.36	-3.90	-1.53	-0.44	-1.45	-3.99	-5.38	-5.50	-7.81	-13.52
270	-18.78	-11.22	-7.21	-5.58	-4.05	-1.64	-0.58	-1.62	-4.19	-5.58	-5.79	-8.25	-13.95
285	-18.68	-11.50	-7.35	-5.71	-4.05	-1.66	-0.66	-1.72	-4.33	-5.80	-6.09	-8.71	-14.47
300	-18.40	-11.57	-7.42	-5.63	-3.91	-1.58	-0.68	-1.82	-4.49	-6.00	-6.39	-9.20	-15.08
315	-17.88	-11.59	-7.32	-5.41	-3.66	-1.46	-0.66	-1.88	-4.59	-6.12	-6.65	-9.77	-16.01
330	-17.21	-11.60	-7.15	-5.10	-3.33	-1.32	-0.65	-1.89	-4.60	-6.23	-6.92	-10.34	-17.08
345	-16.37	-11.47	-6.99	-4.77	-3.03	-1.19	-0.59	-1.85	-4.55	-6.33	-7.20	-10.99	-18.27
360	-15.10	-11.32	-6.76	-4.41	-2.72	-1.05	-0.53	-1.76	-4.45	-6.37	-7.50	-11.82	-20.37
Avg.	-14.17	-10.28	-6.63	-4.80	-3.36	-1.51	-0.65	-1.60	-4.10	-5.89	-6.52	-9.46	-16.19
Peak Value		-0.213		Minimum Value		-28.388							

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-17.87	-12.19	-6.95	-4.43	-2.73	-1.11	-0.60	-1.80	-4.54	-6.57	-7.71	-12.28	-30.12
15	-17.70	-12.30	-6.94	-4.31	-2.60	-1.05	-0.55	-1.75	-4.44	-6.59	-7.87	-12.65	-27.92
30	-17.53	-12.60	-6.97	-4.29	-2.55	-1.05	-0.53	-1.67	-4.38	-6.64	-8.04	-13.01	-27.11
45	-17.59	-12.85	-7.12	-4.36	-2.65	-1.09	-0.55	-1.65	-4.34	-6.73	-8.16	-13.15	-26.91
60	-17.96	-13.17	-7.32	-4.55	-2.73	-1.17	-0.58	-1.63	-4.31	-6.79	-8.16	-13.05	-28.66
75	-18.62	-13.42	-7.56	-4.82	-3.04	-1.39	-0.67	-1.65	-4.30	-6.77	-8.11	-12.63	-30.55
90	-19.81	-13.48	-7.71	-5.04	-3.35	-1.61	-0.76	-1.65	-4.27	-6.68	-7.82	-11.87	-27.85
105	-21.27	-13.16	-7.74	-5.23	-3.58	-1.77	-0.85	-1.63	-4.19	-6.49	-7.44	-11.03	-22.15
120	-22.53	-12.68	-7.56	-5.24	-3.69	-1.85	-0.83	-1.59	-4.11	-6.20	-6.89	-10.04	-19.59
135	-23.12	-12.08	-7.27	-5.14	-3.67	-1.80	-0.75	-1.50	-3.97	-5.86	-6.34	-9.12	-17.13
150	-22.54	-11.42	-6.95	-4.92	-3.56	-1.66	-0.62	-1.39	-3.85	-5.56	-5.87	-8.36	-15.45
165	-21.59	-10.93	-6.68	-4.78	-3.43	-1.48	-0.44	-1.26	-3.74	-5.28	-5.46	-7.75	-14.22
180	-21.04	-10.52	-6.43	-4.67	-3.34	-1.36	-0.31	-1.16	-3.67	-5.11	-5.15	-7.35	-13.49
195	-20.85	-10.33	-6.34	-4.65	-3.32	-1.25	-0.22	-1.12	-3.62	-5.02	-4.99	-7.13	-13.21
210	-21.12	-10.38	-6.40	-4.78	-3.45	-1.29	-0.23	-1.14	-3.64	-4.99	-4.98	-7.15	-13.35
225	-21.69	-10.64	-6.56	-4.94	-3.55	-1.36	-0.28	-1.24	-3.79	-5.17	-5.13	-7.38	-13.84
240	-22.24	-11.00	-6.83	-5.16	-3.76	-1.53	-0.47	-1.42	-3.99	-5.43	-5.46	-7.80	-14.71
255	-22.63	-11.39	-7.13	-5.41	-3.97	-1.70	-0.63	-1.66	-4.27	-5.77	-5.85	-8.37	-16.00
270	-22.31	-11.81	-7.39	-5.60	-4.14	-1.88	-0.87	-1.95	-4.62	-6.12	-6.28	-9.02	-17.80
285	-21.52	-12.06	-7.51	-5.71	-4.16	-1.95	-1.01	-2.12	-4.84	-6.42	-6.65	-9.66	-20.09
300	-20.64	-12.13	-7.58	-5.64	-4.02	-1.88	-1.05	-2.23	-5.00	-6.60	-6.95	-10.23	-23.11
315	-19.83	-12.13	-7.48	-5.43	-3.76	-1.73	-0.99	-2.23	-4.99	-6.61	-7.13	-10.74	-27.84
330	-19.14	-12.16	-7.31	-5.12	-3.40	-1.53	-0.89	-2.13	-4.87	-6.60	-7.31	-11.17	-34.14
345	-18.54	-12.11	-7.15	-4.79	-3.07	-1.33	-0.76	-1.99	-4.71	-6.59	-7.48	-11.67	-31.64
360	-17.87	-12.19	-6.95	-4.43	-2.73	-1.11	-0.60	-1.80	-4.54	-6.57	-7.71	-12.28	-30.12
Avg.	-20.19	-12.03	-7.28	-5.12	-3.55	-1.66	-0.81	-1.81	-4.43	-6.24	-6.75	-9.80	-18.11
Peak Value		-0.225		Minimum Value		-34.141							

Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.37	-18.76	-20.43	-26.79	-26.71	-19.40	-18.72	-21.63	-21.63	-19.76	-20.74	-21.85	-20.86
15	-17.19	-17.60	-19.21	-22.77	-25.51	-21.69	-22.09	-25.05	-21.74	-19.91	-21.67	-23.87	-23.18
30	-15.75	-16.24	-17.28	-18.83	-21.31	-22.84	-25.64	-23.93	-19.89	-19.39	-22.29	-27.17	-27.18
45	-14.43	-14.79	-15.47	-16.52	-17.88	-20.16	-22.02	-19.21	-17.50	-18.29	-22.33	-30.95	-35.04
60	-13.32	-13.42	-13.81	-14.44	-15.31	-17.09	-17.30	-15.83	-15.41	-17.28	-22.02	-32.05	-40.55
75	-12.49	-12.52	-12.71	-12.96	-13.69	-14.82	-14.48	-13.41	-13.64	-15.96	-20.77	-27.45	-27.60
90	-11.92	-11.88	-11.82	-11.99	-12.58	-13.41	-12.78	-11.84	-12.50	-15.16	-19.77	-24.23	-24.86
105	-11.71	-11.45	-11.32	-11.55	-12.13	-12.71	-11.88	-10.98	-11.78	-14.54	-18.89	-22.34	-23.92
120	-11.81	-11.37	-11.23	-11.53	-12.32	-12.74	-11.72	-10.80	-11.55	-14.36	-18.46	-21.79	-23.50
135	-11.93	-11.62	-11.51	-11.99	-13.04	-13.53	-12.26	-11.45	-11.84	-14.65	-18.77	-21.66	-23.94
150	-12.66	-12.19	-12.11	-12.75	-14.30	-15.11	-13.49	-12.15	-12.84	-15.49	-19.75	-23.05	-25.46
165	-13.53	-12.91	-12.75	-13.84	-16.04	-17.64	-15.59	-14.64	-14.44	-16.92	-21.84	-25.81	-29.19
180	-14.41	-13.68	-13.59	-15.11	-18.78	-22.19	-19.44	-17.28	-16.96	-19.47	-25.57	-31.42	-32.65
195	-15.71	-14.77	-14.71	-16.59	-21.85	-32.39	-25.89	-22.84	-21.31	-22.79	-31.97	-35.29	-29.66
210	-16.83	-15.88	-15.96	-18.18	-24.22	-28.81	-27.93	-40.73	-26.81	-24.51	-27.66	-26.66	-24.79
225	-18.39	-17.12	-17.11	-19.74	-24.40	-21.81	-20.66	-24.00	-24.14	-21.44	-21.77	-21.78	-21.05
240	-19.65	-18.41	-18.50	-21.83	-23.03	-18.02	-16.58	-18.02	-19.16	-18.28	-18.52	-18.74	-18.76
255	-20.61	-19.33	-19.89	-24.93	-21.83	-15.72	-14.09	-14.87	-16.13	-16.08	-16.58	-16.98	-17.13
270	-21.33	-20.18	-21.09	-29.49	-20.96	-14.40	-12.52	-13.05	-14.46	-14.87	-15.47	-16.11	-16.25
285	-21.86	-20.67	-21.72	-34.35	-20.07	-13.55	-11.74	-12.27	-13.87	-14.57	-15.24	-15.79	-15.86
300	-22.36	-20.75	-21.85	-31.43	-19.94	-13.35	-11.57	-12.25	-14.03	-14.85	-15.57	-15.96	-15.82
315	-22.29	-20.86	-21.79	-29.15	-20.04	-13.68	-12.00	-13.00	-15.12	-15.83	-16.46	-16.75	-16.31
330	-21.67	-20.73	-21.59	-28.96	-20.97	-14.72	-13.26	-14.59	-16.74	-17.14	-17.65	-17.91	-17.17
345	-20.43	-20.09	-21.53	-30.17	-23.27	-16.32	-14.93	-16.93	-19.05	-18.64	-19.18	-19.36	-18.47
360	-18.37	-18.76	-20.43	-26.79	-26.71	-19.40	-18.72	-21.63	-21.63	-19.76	-20.74	-21.85	-20.86
Avg.	-15.41	-15.06	-15.22	-16.31	-17.19	-16.10	-14.84	-14.72	-15.46	-16.97	-19.27	-20.66	-20.65
Peak Value	-10.804	Minimum Value -40.725											

RHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-17.22	-19.12	-11.81	-7.86	-5.25	-3.78	-3.65	-4.82	-7.16	-9.73	-12.15	-18.73	-21.84
15	-16.14	-18.98	-11.83	-7.71	-5.03	-3.57	-3.41	-4.47	-6.65	-9.24	-11.82	-18.27	-22.61
30	-14.96	-18.72	-11.95	-7.71	-4.90	-3.38	-3.13	-4.04	-6.10	-8.68	-11.36	-17.59	-24.43
45	-14.03	-18.37	-12.32	-7.86	-4.95	-3.28	-2.92	-3.69	-5.62	-8.19	-10.83	-16.55	-27.10
60	-13.44	-18.29	-13.04	-8.28	-5.03	-3.27	-2.74	-3.43	-5.24	-7.78	-10.29	-15.50	-34.00
75	-13.17	-18.57	-13.96	-8.96	-5.57	-3.52	-2.77	-3.28	-4.95	-7.26	-9.68	-14.28	-35.88
90	-13.30	-19.23	-15.26	-9.87	-6.27	-3.90	-2.92	-3.25	-4.80	-6.92	-9.02	-13.01	-26.94
105	-13.86	-20.63	-16.69	-10.98	-7.03	-4.38	-3.22	-3.36	-4.74	-6.61	-8.43	-11.96	-21.87
120	-14.84	-22.86	-17.64	-11.79	-7.74	-4.89	-3.53	-3.59	-4.79	-6.38	-7.87	-11.10	-19.84
135	-15.96	-26.19	-17.59	-12.02	-8.12	-5.27	-3.82	-3.92	-4.90	-6.25	-7.49	-10.39	-18.04
150	-17.82	-28.72	-16.52	-11.61	-8.08	-5.34	-3.99	-4.04	-5.12	-6.24	-7.28	-10.02	-17.02
165	-20.02	-26.46	-15.44	-10.95	-7.72	-5.13	-3.95	-4.22	-5.33	-6.32	-7.25	-9.87	-16.72
180	-22.28	-23.50	-14.29	-10.24	-7.13	-4.76	-3.80	-4.22	-5.58	-6.61	-7.38	-10.03	-16.85
195	-25.29	-21.18	-13.34	-9.63	-6.62	-4.34	-3.57	-4.22	-5.83	-6.99	-7.75	-10.40	-17.62
210	-27.56	-19.90	-12.73	-9.20	-6.23	-4.03	-3.42	-4.23	-6.07	-7.44	-8.28	-11.14	-18.89
225	-30.86	-19.23	-12.46	-9.00	-5.99	-3.84	-3.25	-4.25	-6.40	-8.24	-9.17	-12.20	-20.93
240	-33.59	-18.83	-12.36	-8.89	-5.89	-3.80	-3.34	-4.40	-6.80	-9.09	-10.22	-13.66	-23.32
255	-35.13	-18.84	-12.38	-8.94	-5.95	-3.87	-3.45	-4.67	-7.32	-10.08	-11.40	-15.33	-25.21
270	-34.76	-18.89	-12.41	-8.96	-6.10	-4.06	-3.74	-5.08	-7.97	-11.08	-12.60	-17.05	-25.28
285	-32.37	-18.98	-12.38	-9.04	-6.21	-4.30	-4.08	-5.49	-8.56	-11.86	-13.38	-18.55	-24.15
300	-28.74	-19.00	-12.38	-9.03	-6.29	-4.48	-4.33	-5.84	-8.99	-12.22	-13.75	-19.56	-22.76
315	-25.39	-19.06	-12.26	-8.90	-6.22	-4.53	-4.44	-5.97	-8.99	-11.94	-13.56	-19.77	-21.83
330	-22.17	-19.22	-12.14	-8.61	-5.99	-4.42	-4.37	-5.80	-8.60	-11.39	-13.18	-19.54	-21.48
345	-19.77	-19.27	-11.99	-8.28	-5.69	-4.17	-4.12	-5.44	-8.00	-10.59	-12.73	-19.30	-20.30
360	-17.22	-19.12	-11.81	-7.86	-5.25	-3.78	-3.65	-4.82	-7.16	-9.73	-12.15	-18.73	-21.84
Avg.	-17.80	-20.03	-13.38	-9.35	-6.33	-4.32	-3.73	-4.51	-6.40	-8.39	-9.92	-13.58	-21.06
Peak Value	-2.743	Minimum Value -35.875											

LHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-19.24	-12.11	-8.39	-7.02	-6.27	-4.35	-3.43	-4.71	-7.79	-9.05	-9.32	-12.81	-25.80
15	-19.28	-11.97	-8.28	-6.85	-6.22	-4.53	-3.66	-5.03	-8.24	-9.57	-9.81	-13.61	-30.28
30	-19.10	-11.85	-8.08	-6.65	-6.22	-4.78	-3.97	-5.38	-8.87	-10.32	-10.46	-14.62	-36.01
45	-18.56	-11.52	-7.86	-6.48	-6.20	-4.98	-4.25	-5.71	-9.50	-11.22	-11.19	-15.67	-33.99
60	-17.65	-11.03	-7.52	-6.24	-6.05	-5.05	-4.41	-5.88	-10.01	-12.13	-11.84	-16.58	-29.78
75	-16.61	-10.57	-7.24	-5.97	-5.82	-5.03	-4.38	-5.85	-10.22	-13.19	-12.58	-17.20	-26.27
90	-15.55	-10.10	-6.87	-5.63	-5.51	-4.84	-4.19	-5.58	-10.05	-13.76	-12.98	-17.27	-25.40
105	-14.70	-9.54	-6.56	-5.38	-5.20	-4.51	-3.86	-5.16	-9.52	-13.84	-13.03	-16.75	-24.38
120	-14.12	-9.14	-6.31	-5.18	-4.98	-4.18	-3.48	-4.71	-8.98	-13.31	-12.56	-15.51	-22.94
135	-13.59	-8.92	-6.19	-5.14	-4.88	-3.89	-3.13	-4.27	-8.45	-12.50	-11.72	-14.24	-21.12
150	-13.64	-8.82	-6.18	-5.14	-4.92	-3.76	-2.90	-4.05	-8.05	-11.63	-10.84	-12.89	-19.42
165	-13.84	-8.88	-6.21	-5.32	-5.09	-3.75	-2.77	-3.94	-7.81	-10.79	-9.90	-11.70	-17.50
180	-14.18	-8.96	-6.31	-5.57	-5.48	-3.94	-2.79	-3.91	-7.62	-9.94	-9.03	-10.69	-16.08
195	-14.93	-9.27	-6.58	-5.92	-5.96	-4.18	-2.90	-3.98	-7.44	-9.20	-8.25	-9.89	-15.01
210	-15.73	-9.70	-6.97	-6.43	-6.63	-4.56	-3.07	-4.07	-7.27	-8.52	-7.68	-9.29	-14.36
225	-16.90	-10.28	-7.36	-6.87	-7.13	-4.88	-3.25	-4.20	-7.14	-7.92	-7.16	-8.88	-13.86
240	-17.86	-10.93	-7.86	-7.40	-7.74	-5.19	-3.42	-4.27	-6.93	-7.49	-6.91	-8.66	-13.72
255	-18.59	-11.48	-8.36	-7.87	-8.16	-5.34	-3.46	-4.27	-6.71	-7.18	-6.79	-8.66	-13.82
270	-18.89	-12.03	-8.77	-8.25	-8.31	-5.33	-3.45	-4.23	-6.54	-7.02	-6.80	-8.86	-14.28
285	-18.87	-12.36	-8.99	-8.41	-8.12	-5.07	-3.29	-4.09	-6.40	-7.03	-6.99	-9.18	-14.96
300	-18.83	-12.43	-9.09	-8.28	-7.66	-4.71	-3.13	-4.01	-6.40	-7.18	-7.27	-9.62	-15.89
315	-18.73	-12.45	-8.99	-7.99	-7.17	-4.42	-3.02	-4.02	-6.55	-7.44	-7.64	-10.22	-17.33
330	-18.88	-12.42	-8.80	-7.66	-6.71	-4.25	-3.04	-4.15	-6.80	-7.82	-8.10	-10.90	-19.04
345	-19.02	-12.26	-8.64	-7.34	-6.42	-4.24	-3.14	-4.35	-7.16	-8.37	-8.62	-11.68	-22.53
360	-19.24	-12.11	-8.39	-7.02	-6.27	-4.35	-3.43	-4.71	-7.79	-9.05	-9.32	-12.81	-25.80
Avg.	-16.63	-10.76	-7.66	-6.67	-6.42	-4.72	-3.58	-4.71	-7.95	-9.47	-9.17	-11.59	-17.90
Peak Value	-2.771	Minimum Value -36.008											

AR													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	18.75	8.34	14.23	26.35	24.62	29.73	38.03	43.75	28.74	28.15	15.81	9.68	12.98
15	14.96	8.33	13.90	26.13	23.28	25.17	36.96	29.81	20.81	34.62	18.77	11.63	7.63
30	12.62	8.49	13.18	24.34	22.41	21.89	26.32	22.29	16.02	20.54	25.75	15.43	4.69
45	11.88	8.51	11.99	22.02	22.87	20.17	22.35	18.74	13.17	15.25	33.67	25.98	8.47
60	12.48	8.06	10.25	18.63	24.64	19.83	20.39	17.06	11.44	12.20	21.01	24.09	12.46
75	14.17	7.33	8.66	15.36	36.71	21.21	20.72	16.68	10.62	9.67	15.62	15.57	5.97
90	17.80	6.34	6.97	12.41	27.13	25.29	22.72	17.51	10.64	8.53	12.98	12.38	21.09
105	26.32	4.97	5.59	10.13	19.60	42.18	28.61	19.68	11.43	8.09	11.73	11.41	16.88
120	27.60	3.63	4.84	8.79	16.05	27.85	51.09	23.82	12.52	8.43	11.59	12.10	15.05
135	17.37	2.39	4.79	8.48	14.68	22.02	28.07	34.03	13.91	9.23	12.43	13.22	15.13
150	12.54	1.76	5.45	8.97	14.88	20.84	24.06	64.89	15.53	10.45	13.90	15.71	17.24
165	9.34	2.31	6.26	10.08	16.48	22.01	23.39	35.84	16.94	11.98	16.39	19.60	26.94
180	7.23	3.29	7.34	11.62	20.47	26.53	24.79	34.94	18.64	14.45	20.45	28.49	27.08
195	5.44	4.51	8.62	13.55	28.42	40.66	28.24	37.39	20.68	17.96	30.77	30.76	16.50
210	4.55	5.54	9.90	16.03	32.88	30.38	33.91	40.73	23.21	24.15	29.13	19.51	11.86
225	3.53	6.49	10.90	18.26	23.66	24.48	76.80	51.22	27.42	34.72	18.77	14.48	8.27
240	2.86	7.41	11.93	21.33	19.51	21.97	47.20	42.37	42.68	20.78	14.52	11.06	5.98
255	2.60	7.96	12.87	24.25	17.96	21.49	65.22	32.84	29.02	15.61	11.73	8.72	4.80
270	2.82	8.51	13.70	27.84	17.92	22.78	35.43	26.14	21.72	12.78	9.85	7.14	5.03
285	3.73	8.79	14.29	28.83	19.21	27.13	26.84	21.91	18.15	11.34	9.06	6.16	6.30
300	5.75	8.85	14.57	27.38	22.06	37.57	23.22	19.56	16.61	10.99	8.96	5.73	8.50
315	8.74	8.80	14.61	25.65	25.21	43.72	21.76	19.06	17.11	11.93	9.68	6.02	11.92
330	14.57	8.58	14.42	25.27	27.71	39.79	22.31	20.48	19.72	13.86	10.91	6.74	17.14
345	27.33	8.34	14.39	25.43	27.63	48.94	25.00	24.04	26.33	17.92	12.69	7.69	17.89
360	18.75	8.34	14.23	26.35	24.62	29.73	38.03	43.75	28.74	28.15	15.81	9.68	12.98
Avg.	18.88	6.92	11.59	22.97	26.64	37.82	63.13	51.19	29.49	24.71	23.36	20.80	17.99
Peak Value	76.799	Minimum Value 1.763											



505.9 MHz

Horizontal + Vertical													
φ [deg]	Θ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-15.58	-11.81	-7.15	-4.78	-3.07	-1.43	-0.87	-2.07	-4.70	-6.60	-7.75	-11.99	-20.81
15	-14.79	-11.69	-7.09	-4.62	-2.96	-1.37	-0.87	-2.03	-4.60	-6.64	-7.94	-12.52	-22.41
30	-13.88	-11.51	-7.00	-4.49	-2.86	-1.37	-0.86	-1.96	-4.51	-6.67	-8.10	-12.98	-25.27
45	-12.98	-11.17	-6.95	-4.49	-2.88	-1.42	-0.88	-1.88	-4.37	-6.67	-8.18	-13.18	-27.91
60	-12.32	-10.71	-6.86	-4.52	-2.85	-1.42	-0.85	-1.78	-4.23	-6.64	-8.22	-13.13	-30.35
75	-11.86	-10.35	-6.83	-4.57	-3.06	-1.57	-0.85	-1.67	-4.07	-6.49	-8.06	-12.58	-26.33
90	-11.58	-9.95	-6.69	-4.65	-3.23	-1.69	-0.86	-1.54	-3.93	-6.34	-7.78	-11.79	-23.63
105	-11.50	-9.61	-6.54	-4.69	-3.41	-1.80	-0.86	-1.49	-3.78	-6.10	-7.35	-10.95	-20.19
120	-11.72	-9.36	-6.41	-4.71	-3.54	-1.88	-0.84	-1.42	-3.66	-5.83	-6.84	-10.00	-18.25
135	-11.89	-9.22	-6.28	-4.70	-3.59	-1.88	-0.80	-1.39	-3.60	-5.58	-6.36	-9.18	-16.58
150	-12.51	-9.19	-6.20	-4.68	-3.59	-1.85	-0.73	-1.35	-3.62	-5.40	-5.93	-8.50	-15.30
165	-13.20	-9.21	-6.12	-4.68	-3.59	-1.77	-0.66	-1.38	-3.66	-5.26	-5.61	-7.99	-14.41
180	-13.86	-9.27	-6.08	-4.70	-3.64	-1.68	-0.61	-1.37	-3.72	-5.20	-5.39	-7.63	-13.82
195	-14.87	-9.42	-6.19	-4.81	-3.68	-1.64	-0.56	-1.39	-3.81	-5.19	-5.27	-7.46	-13.54
210	-15.98	-9.75	-6.39	-5.02	-3.83	-1.67	-0.57	-1.44	-3.88	-5.22	-5.24	-7.43	-13.46
225	-17.10	-10.23	-6.65	-5.22	-3.95	-1.72	-0.59	-1.50	-3.98	-5.31	-5.36	-7.54	-13.43
240	-18.39	-10.75	-7.00	-5.52	-4.15	-1.82	-0.70	-1.60	-4.09	-5.44	-5.55	-7.79	-13.62
255	-19.00	-11.29	-7.35	-5.80	-4.32	-1.92	-0.81	-1.73	-4.24	-5.63	-5.79	-8.11	-13.86
270	-19.35	-11.69	-7.64	-6.02	-4.46	-2.03	-0.92	-1.91	-4.43	-5.82	-6.10	-8.57	-14.29
285	-19.20	-11.96	-7.80	-6.09	-4.45	-2.01	-1.00	-2.01	-4.59	-6.06	-6.39	-9.01	-14.84
300	-18.68	-12.09	-7.83	-6.00	-4.30	-1.96	-1.01	-2.10	-4.71	-6.22	-6.69	-9.51	-15.51
315	-18.25	-12.08	-7.73	-5.79	-4.01	-1.82	-1.00	-2.16	-4.83	-6.37	-6.96	-10.05	-16.54
330	-17.61	-12.07	-7.57	-5.48	-3.71	-1.67	-0.97	-2.19	-4.85	-6.50	-7.21	-10.63	-17.58
345	-16.85	-11.94	-7.38	-5.19	-3.41	-1.54	-0.94	-2.15	-4.81	-6.59	-7.45	-11.25	-18.79
360	-15.58	-11.81	-7.15	-4.78	-3.07	-1.43	-0.87	-2.07	-4.70	-6.60	-7.75	-11.99	-20.81
Avg.	-14.50	-10.72	-7.05	-5.20	-3.76	-1.88	-0.99	-1.90	-4.35	-6.13	-6.79	-9.74	-16.57
Peak Value		-0.561		Minimum Value		-30.351							

Horizontal													
φ [deg]	Θ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.54	-12.72	-7.34	-4.81	-3.09	-1.50	-0.94	-2.12	-4.78	-6.80	-7.95	-12.41	-31.21
15	-18.22	-12.85	-7.34	-4.68	-2.98	-1.41	-0.90	-2.05	-4.69	-6.83	-8.11	-12.81	-29.19
30	-18.04	-13.17	-7.38	-4.64	-2.92	-1.40	-0.87	-1.99	-4.63	-6.89	-8.26	-13.12	-28.75
45	-18.03	-13.40	-7.55	-4.76	-3.02	-1.47	-0.91	-1.96	-4.58	-6.97	-8.35	-13.25	-28.69
60	-18.43	-13.73	-7.74	-4.95	-3.08	-1.54	-0.94	-1.95	-4.57	-7.02	-8.41	-13.19	-30.74
75	-19.20	-13.93	-8.00	-5.19	-3.43	-1.77	-1.03	-1.95	-4.55	-6.99	-8.30	-12.73	-31.85
90	-20.32	-13.96	-8.13	-5.45	-3.73	-1.97	-1.13	-1.94	-4.54	-6.93	-8.06	-12.05	-28.32
105	-21.78	-13.68	-8.14	-5.60	-3.98	-2.14	-1.19	-1.96	-4.48	-6.74	-7.66	-11.26	-22.48
120	-23.27	-13.19	-7.99	-5.64	-4.10	-2.22	-1.18	-1.91	-4.38	-6.46	-7.14	-10.29	-19.66
135	-23.63	-12.52	-7.70	-5.52	-4.07	-2.16	-1.09	-1.80	-4.25	-6.13	-6.61	-9.41	-17.41
150	-23.24	-11.93	-7.39	-5.35	-3.94	-2.04	-0.95	-1.69	-4.13	-5.83	-6.11	-8.64	-15.71
165	-22.50	-11.45	-7.09	-5.19	-3.82	-1.87	-0.79	-1.57	-4.01	-5.54	-5.72	-8.06	-14.54
180	-21.82	-11.04	-6.86	-5.08	-3.77	-1.72	-0.66	-1.47	-3.91	-5.36	-5.43	-7.65	-13.86
195	-21.75	-10.83	-6.80	-5.09	-3.75	-1.64	-0.57	-1.42	-3.88	-5.27	-5.28	-7.46	-13.62
210	-22.13	-10.89	-6.87	-5.21	-3.86	-1.68	-0.58	-1.44	-3.90	-5.27	-5.27	-7.48	-13.75
225	-22.75	-11.15	-7.03	-5.36	-3.98	-1.76	-0.63	-1.53	-4.03	-5.42	-5.45	-7.70	-14.19
240	-23.43	-11.51	-7.30	-5.61	-4.20	-1.93	-0.81	-1.70	-4.23	-5.67	-5.76	-8.12	-15.08
255	-23.64	-11.96	-7.58	-5.85	-4.39	-2.10	-1.01	-1.95	-4.53	-6.02	-6.14	-8.67	-16.36
270	-23.30	-12.32	-7.83	-6.04	-4.55	-2.28	-1.22	-2.23	-4.87	-6.37	-6.60	-9.36	-18.19
285	-22.38	-12.58	-7.97	-6.10	-4.56	-2.32	-1.36	-2.41	-5.11	-6.68	-6.94	-9.93	-20.43
300	-21.23	-12.68	-8.00	-6.02	-4.42	-2.26	-1.38	-2.51	-5.22	-6.81	-7.24	-10.48	-23.49
315	-20.50	-12.66	-7.91	-5.82	-4.12	-2.09	-1.33	-2.50	-5.23	-6.84	-7.43	-10.99	-27.73
330	-19.74	-12.68	-7.73	-5.50	-3.79	-1.88	-1.21	-2.42	-5.11	-6.85	-7.57	-11.44	-33.29
345	-19.13	-12.61	-7.54	-5.21	-3.45	-1.67	-1.10	-2.28	-4.97	-6.84	-7.72	-11.90	-32.70
360	-18.54	-12.72	-7.34	-4.81	-3.09	-1.50	-0.94	-2.12	-4.78	-6.80	-7.95	-12.41	-31.21
Avg.	-20.85	-12.55	-7.71	-5.52	-3.94	-2.03	-1.16	-2.11	-4.68	-6.49	-7.02	-10.07	-18.48
Peak Value		-0.571		Minimum Value		-33.288							

Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.63	-19.07	-20.82	-27.18	-27.09	-19.64	-19.13	-21.98	-21.88	-20.11	-21.33	-22.30	-21.23
15	-17.42	-18.01	-19.63	-23.47	-25.81	-22.02	-22.33	-25.16	-21.83	-20.31	-22.27	-24.43	-23.44
30	-15.97	-16.48	-17.73	-19.19	-21.40	-22.86	-25.85	-23.92	-19.87	-19.70	-22.74	-27.99	-27.87
45	-14.60	-15.13	-15.87	-16.82	-18.13	-20.24	-22.05	-19.45	-17.53	-18.36	-22.46	-31.17	-35.72
60	-13.54	-13.71	-14.19	-14.80	-15.72	-17.23	-17.53	-16.06	-15.54	-17.35	-21.94	-31.48	-41.01
75	-12.75	-12.85	-13.11	-13.34	-14.01	-15.15	-14.78	-13.70	-13.86	-16.12	-20.75	-27.29	-27.76
90	-12.20	-12.15	-12.19	-12.41	-12.92	-13.74	-13.06	-12.12	-12.77	-15.31	-19.84	-24.25	-25.44
105	-11.93	-11.77	-11.66	-11.92	-12.53	-13.04	-12.24	-11.37	-12.05	-14.73	-18.97	-22.58	-24.07
120	-12.04	-11.68	-11.57	-11.86	-12.69	-13.09	-12.06	-11.09	-11.83	-14.58	-18.66	-21.85	-23.82
135	-12.19	-11.96	-11.80	-12.32	-13.37	-13.94	-12.63	-11.80	-12.19	-14.85	-18.85	-21.99	-24.21
150	-12.89	-12.48	-12.42	-13.13	-14.71	-15.45	-13.82	-12.60	-13.16	-15.71	-19.86	-23.38	-25.76
165	-13.75	-13.15	-13.09	-14.16	-16.45	-18.09	-16.01	-15.05	-14.73	-17.22	-21.95	-25.85	-29.65
180	-14.61	-14.02	-13.95	-15.47	-19.08	-22.62	-20.02	-17.80	-17.38	-19.66	-25.95	-31.60	-34.43
195	-15.87	-15.00	-14.96	-16.94	-22.08	-33.39	-26.70	-23.70	-21.54	-22.92	-31.57	-35.70	-30.87
210	-17.19	-16.13	-16.28	-18.68	-24.66	-28.60	-27.50	-43.58	-27.15	-24.59	-27.52	-27.09	-25.28
225	-18.48	-17.43	-17.47	-20.24	-25.04	-21.86	-20.68	-23.93	-23.84	-21.43	-22.00	-21.93	-21.36
240	-20.02	-18.69	-18.78	-22.18	-23.52	-18.16	-16.75	-17.99	-19.14	-18.34	-18.75	-19.15	-19.08
255	-20.84	-19.72	-20.23	-25.59	-22.42	-15.99	-14.27	-14.98	-16.22	-16.30	-16.84	-17.28	-17.46
270	-21.59	-20.35	-21.47	-30.11	-21.41	-14.59	-12.71	-13.29	-14.57	-15.10	-15.77	-16.39	-16.56
285	-22.05	-20.76	-22.02	-33.77	-20.55	-13.68	-11.93	-12.52	-14.05	-14.81	-15.58	-16.18	-16.24
300	-22.21	-21.07	-21.99	-30.54	-20.15	-13.66	-11.85	-12.55	-14.29	-15.23	-15.92	-16.52	-16.27
315	-22.18	-21.10	-21.80	-28.48	-20.16	-14.02	-12.32	-13.36	-15.42	-16.32	-16.89	-17.12	-16.89
330	-21.73	-20.87	-21.81	-28.38	-21.25	-15.04	-13.56	-14.98	-17.14	-17.67	-18.22	-18.34	-17.70
345	-20.74	-20.39	-21.82	-29.70	-23.51	-16.68	-15.39	-17.38	-19.46	-19.13	-19.62	-19.80	-18.97
360	-18.63	-19.07	-20.82	-27.18	-27.09	-19.64	-19.13	-21.98	-21.88	-20.11	-21.33	-22.30	-21.23
Avg.	-15.64	-15.36	-15.56	-16.67	-17.55	-16.39	-15.14	-15.04	-15.71	-17.21	-19.55	-21.02	-21.07
Peak Value	-11.094	Minimum Value -43.582											

RHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-17.72	-19.91	-12.25	-8.26	-5.61	-4.15	-3.99	-5.10	-7.37	-9.93	-12.38	-18.73	-22.52
15	-16.46	-19.73	-12.28	-8.09	-5.41	-3.92	-3.76	-4.74	-6.87	-9.44	-11.98	-18.32	-23.35
30	-15.26	-19.41	-12.43	-8.07	-5.24	-3.71	-3.46	-4.33	-6.32	-8.93	-11.51	-17.58	-25.56
45	-14.24	-19.10	-12.86	-8.28	-5.32	-3.63	-3.26	-3.98	-5.83	-8.40	-10.99	-16.60	-28.59
60	-13.67	-18.88	-13.50	-8.72	-5.41	-3.61	-3.09	-3.71	-5.47	-7.97	-10.48	-15.56	-36.69
75	-13.48	-19.22	-14.47	-9.39	-5.94	-3.88	-3.12	-3.57	-5.18	-7.47	-9.84	-14.34	-33.44
90	-13.56	-19.77	-15.78	-10.33	-6.67	-4.26	-3.27	-3.53	-5.05	-7.14	-9.24	-13.16	-26.64
105	-14.01	-21.13	-17.17	-11.40	-7.46	-4.76	-3.53	-3.68	-5.00	-6.84	-8.63	-12.19	-21.82
120	-15.04	-23.42	-18.33	-12.29	-8.20	-5.27	-3.87	-3.88	-5.05	-6.62	-8.11	-11.30	-19.84
135	-16.11	-27.03	-18.26	-12.50	-8.58	-5.63	-4.15	-4.21	-5.18	-6.49	-7.72	-10.66	-18.20
150	-17.88	-29.76	-17.19	-12.08	-8.47	-5.73	-4.32	-4.33	-5.39	-6.49	-7.50	-10.28	-17.21
165	-19.85	-27.97	-15.94	-11.46	-8.12	-5.50	-4.30	-4.52	-5.58	-6.58	-7.48	-10.12	-16.94
180	-22.03	-24.52	-14.80	-10.71	-7.57	-5.12	-4.14	-4.52	-5.81	-6.85	-7.67	-10.28	-17.19
195	-24.58	-22.13	-13.98	-10.11	-7.06	-4.71	-3.91	-4.49	-6.06	-7.23	-8.03	-10.73	-17.91
210	-27.12	-20.70	-13.28	-9.66	-6.63	-4.41	-3.75	-4.51	-6.33	-7.72	-8.58	-11.44	-19.27
225	-29.39	-19.92	-13.00	-9.46	-6.43	-4.22	-3.58	-4.51	-6.64	-8.50	-9.48	-12.57	-21.35
240	-32.10	-19.52	-12.92	-9.42	-6.34	-4.19	-3.67	-4.65	-7.03	-9.32	-10.53	-13.94	-23.68
255	-33.28	-19.49	-12.87	-9.42	-6.39	-4.26	-3.82	-4.92	-7.57	-10.30	-11.70	-15.63	-25.68
270	-34.04	-19.60	-12.86	-9.47	-6.53	-4.47	-4.11	-5.36	-8.23	-11.32	-12.92	-17.44	-26.01
285	-32.26	-19.67	-12.85	-9.47	-6.64	-4.67	-4.45	-5.76	-8.79	-12.17	-13.67	-18.73	-24.79
300	-28.80	-19.62	-12.84	-9.44	-6.71	-4.87	-4.69	-6.08	-9.17	-12.36	-14.03	-19.49	-23.45
315	-25.46	-19.73	-12.76	-9.32	-6.59	-4.89	-4.79	-6.24	-9.20	-12.12	-13.82	-19.90	-22.75
330	-22.54	-19.98	-12.60	-9.03	-6.40	-4.78	-4.70	-6.07	-8.82	-11.58	-13.36	-19.65	-22.22
345	-20.21	-19.93	-12.42	-8.75	-6.07	-4.53	-4.46	-5.70	-8.23	-10.79	-12.91	-19.39	-21.03
360	-17.72	-19.91	-12.25	-8.26	-5.61	-4.15	-3.99	-5.10	-7.37	-9.93	-12.38	-18.73	-22.52
Avg.	-18.01	-20.73	-13.89	-9.80	-6.73	-4.69	-4.07	-4.79	-6.64	-8.62	-10.16	-13.81	-21.44
Peak Value	-3.094	Minimum Value -36.690											

LHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-19.67	-12.54	-8.75	-7.37	-6.61	-4.75	-3.77	-5.06	-8.08	-9.32	-9.58	-13.02	-25.69
15	-19.74	-12.44	-8.66	-7.22	-6.61	-4.90	-4.00	-5.36	-8.51	-9.87	-10.13	-13.85	-29.54
30	-19.52	-12.27	-8.46	-7.00	-6.59	-5.17	-4.32	-5.72	-9.18	-10.58	-10.76	-14.83	-37.28
45	-18.96	-11.93	-8.24	-6.85	-6.56	-5.39	-4.63	-6.04	-9.81	-11.50	-11.40	-15.83	-36.30
60	-18.05	-11.43	-7.92	-6.60	-6.37	-5.44	-4.79	-6.24	-10.29	-12.42	-12.14	-16.82	-31.50
75	-16.94	-10.95	-7.65	-6.31	-6.21	-5.41	-4.76	-6.18	-10.54	-13.43	-12.81	-17.35	-27.27
90	-15.94	-10.43	-7.27	-6.02	-5.86	-5.19	-4.56	-5.89	-10.36	-14.06	-13.23	-17.49	-26.65
105	-15.08	-9.93	-6.93	-5.74	-5.58	-4.87	-4.24	-5.51	-9.88	-14.15	-13.29	-16.98	-25.25
120	-14.44	-9.53	-6.70	-5.54	-5.35	-4.54	-3.84	-5.06	-9.29	-13.64	-12.81	-15.86	-23.40
135	-13.95	-9.29	-6.56	-5.49	-5.25	-4.26	-3.49	-4.60	-8.78	-12.84	-12.05	-14.57	-21.65
150	-13.99	-9.22	-6.56	-5.55	-5.30	-4.14	-3.23	-4.39	-8.36	-11.95	-11.11	-13.23	-19.78
165	-14.26	-9.26	-6.60	-5.70	-5.48	-4.15	-3.13	-4.27	-8.12	-11.05	-10.18	-12.10	-17.97
180	-14.57	-9.40	-6.71	-5.96	-5.90	-4.30	-3.17	-4.25	-7.90	-10.22	-9.29	-11.04	-16.50
195	-15.36	-9.66	-6.98	-6.33	-6.35	-4.58	-3.25	-4.32	-7.73	-9.45	-8.55	-10.21	-15.52
210	-16.33	-10.12	-7.39	-6.85	-7.06	-4.97	-3.41	-4.38	-7.53	-8.82	-7.95	-9.63	-14.78
225	-17.37	-10.72	-7.80	-7.28	-7.56	-5.30	-3.62	-4.51	-7.38	-8.14	-7.48	-9.18	-14.19
240	-18.58	-11.37	-8.28	-7.79	-8.18	-5.60	-3.75	-4.56	-7.18	-7.73	-7.21	-9.00	-14.07
255	-19.17	-12.00	-8.78	-8.28	-8.55	-5.73	-3.81	-4.58	-6.95	-7.44	-7.07	-8.95	-14.16
270	-19.50	-12.45	-9.20	-8.63	-8.69	-5.69	-3.77	-4.51	-6.78	-7.26	-7.11	-9.18	-14.59
285	-19.42	-12.77	-9.43	-8.76	-8.48	-5.40	-3.60	-4.38	-6.66	-7.27	-7.29	-9.50	-15.30
300	-19.13	-12.93	-9.48	-8.62	-8.02	-5.07	-3.44	-4.32	-6.64	-7.44	-7.58	-9.98	-16.27
315	-19.17	-12.90	-9.37	-8.34	-7.50	-4.77	-3.35	-4.31	-6.81	-7.72	-7.96	-10.52	-17.73
330	-19.30	-12.83	-9.20	-8.01	-7.07	-4.59	-3.36	-4.47	-7.07	-8.11	-8.42	-11.21	-19.41
345	-19.54	-12.69	-9.02	-7.71	-6.79	-4.57	-3.50	-4.68	-7.45	-8.67	-8.90	-11.97	-22.74
360	-19.67	-12.54	-8.75	-7.37	-6.61	-4.75	-3.77	-5.06	-8.08	-9.32	-9.58	-13.02	-25.69
Avg.	-17.05	-11.18	-8.06	-7.05	-6.80	-5.10	-3.93	-5.03	-8.23	-9.74	-9.46	-11.90	-18.29
Peak Value			-3.128	Minimum Value		-37.276							

AR													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	19.05	7.95	14.04	25.76	24.79	29.26	37.98	52.88	27.81	29.12	15.94	9.97	14.89
15	14.57	8.02	13.75	25.99	23.28	24.95	37.15	28.93	20.56	32.01	19.50	11.97	9.32
30	12.39	8.20	12.96	24.22	22.21	21.53	26.03	21.94	15.73	20.46	27.31	16.08	4.61
45	11.53	8.16	11.71	21.73	22.91	19.92	22.10	18.56	12.94	15.04	32.55	27.06	7.60
60	12.14	7.86	10.15	18.33	25.15	19.55	20.26	16.77	11.34	12.00	20.39	22.80	10.75
75	14.13	7.07	8.55	15.13	36.09	21.13	20.53	16.55	10.47	9.62	15.43	15.32	9.35
90	17.31	6.17	6.85	12.28	26.64	25.44	22.60	17.39	10.56	8.45	12.94	12.23	64.02
105	24.18	4.91	5.52	10.04	19.32	43.82	27.76	19.57	11.26	8.01	11.63	11.40	14.20
120	29.15	3.56	4.66	8.63	15.79	27.62	54.76	23.33	12.42	8.32	11.57	11.82	13.88
135	18.15	2.27	4.62	8.34	14.45	22.08	28.43	32.86	13.79	9.11	12.24	13.10	14.16
150	13.13	1.64	5.27	8.89	14.86	20.82	24.00	48.90	15.42	10.32	13.75	15.49	16.67
165	10.14	2.03	6.17	9.89	16.45	22.22	23.45	36.72	16.76	11.99	16.24	18.93	24.58
180	7.86	3.08	7.24	11.48	20.34	26.53	25.06	36.23	18.40	14.35	20.60	27.12	27.96
195	6.27	4.21	8.35	13.39	27.79	42.23	28.41	40.21	20.37	17.92	30.52	30.47	17.29
210	5.16	5.30	9.72	15.88	32.20	29.80	34.06	42.28	23.27	23.93	28.84	19.64	11.93
225	4.45	6.29	10.73	18.06	23.74	24.14	52.59	74.30	27.38	33.67	18.81	14.30	8.17
240	3.72	7.18	11.67	20.59	19.54	21.85	46.91	45.88	41.06	20.77	14.47	11.15	5.98
255	3.47	7.82	12.72	23.72	18.15	21.51	66.39	34.01	28.92	15.76	11.69	8.71	4.72
270	3.30	8.19	13.65	26.36	18.14	23.11	34.09	26.25	21.56	12.77	9.83	7.08	4.78
285	4.03	8.46	14.21	27.69	19.52	27.57	26.27	22.03	18.27	11.22	9.07	6.26	6.06
300	5.92	8.70	14.38	26.46	22.46	39.01	22.89	19.90	16.78	11.19	8.99	6.04	8.16
315	9.19	8.54	14.31	24.92	25.62	43.29	21.69	19.13	17.29	12.11	9.77	6.15	11.03
330	14.66	8.18	14.28	24.60	28.22	39.34	22.32	20.75	19.99	14.11	11.14	6.92	15.87
345	28.31	8.08	14.28	24.50	27.63	51.48	25.21	24.69	27.01	18.32	12.90	7.90	20.17
360	19.05	7.95	14.04	25.76	24.79	29.26	37.98	52.88	27.81	29.12	15.94	9.97	14.89
Avg.	19.37	6.66	11.43	22.23	26.30	39.54	52.93	60.38	28.15	23.51	22.95	20.46	50.04
Peak Value			74.300	Minimum Value		1.637							

507.2 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.05	-12.29	-7.60	-5.20	-3.50	-1.81	-1.26	-2.40	-4.96	-6.88	-8.03	-12.24	-21.26
15	-15.19	-12.22	-7.52	-5.03	-3.35	-1.77	-1.25	-2.38	-4.87	-6.89	-8.18	-12.73	-23.33
30	-14.21	-11.96	-7.44	-4.90	-3.24	-1.76	-1.24	-2.30	-4.76	-6.92	-8.38	-13.20	-26.00
45	-13.36	-11.64	-7.39	-4.91	-3.27	-1.80	-1.26	-2.22	-4.66	-6.92	-8.46	-13.38	-29.62
60	-12.69	-11.18	-7.28	-4.91	-3.26	-1.81	-1.21	-2.13	-4.53	-6.89	-8.49	-13.23	-32.13
75	-12.17	-10.75	-7.26	-4.99	-3.47	-1.97	-1.22	-2.02	-4.36	-6.77	-8.31	-12.74	-26.62
90	-11.85	-10.37	-7.17	-5.08	-3.63	-2.09	-1.24	-1.89	-4.22	-6.59	-8.02	-12.02	-23.64
105	-11.79	-10.03	-6.98	-5.08	-3.78	-2.19	-1.24	-1.82	-4.07	-6.40	-7.65	-11.16	-20.27
120	-11.97	-9.71	-6.85	-5.11	-3.93	-2.27	-1.23	-1.75	-3.96	-6.12	-7.13	-10.25	-18.65
135	-12.18	-9.62	-6.69	-5.11	-4.02	-2.30	-1.18	-1.72	-3.90	-5.88	-6.66	-9.42	-16.84
150	-12.80	-9.58	-6.63	-5.09	-4.02	-2.23	-1.12	-1.70	-3.91	-5.70	-6.25	-8.77	-15.65
165	-13.48	-9.60	-6.54	-5.11	-4.02	-2.17	-1.04	-1.71	-3.97	-5.55	-5.94	-8.32	-14.79
180	-14.29	-9.73	-6.53	-5.13	-4.05	-2.10	-0.99	-1.70	-4.03	-5.51	-5.72	-7.95	-14.26
195	-15.27	-9.92	-6.62	-5.24	-4.14	-2.06	-0.93	-1.71	-4.10	-5.51	-5.60	-7.82	-13.92
210	-16.36	-10.28	-6.88	-5.44	-4.29	-2.08	-0.94	-1.75	-4.17	-5.50	-5.58	-7.78	-13.84
225	-17.57	-10.70	-7.12	-5.69	-4.39	-2.14	-0.96	-1.84	-4.25	-5.63	-5.70	-7.87	-13.86
240	-18.90	-11.31	-7.48	-5.98	-4.64	-2.25	-1.09	-1.93	-4.37	-5.73	-5.88	-8.16	-14.02
255	-19.55	-11.78	-7.81	-6.25	-4.79	-2.34	-1.18	-2.05	-4.50	-5.90	-6.14	-8.48	-14.27
270	-19.76	-12.23	-8.11	-6.45	-4.92	-2.42	-1.29	-2.20	-4.68	-6.15	-6.44	-8.92	-14.70
285	-19.77	-12.49	-8.26	-6.49	-4.90	-2.41	-1.36	-2.33	-4.85	-6.35	-6.71	-9.38	-15.20
300	-19.27	-12.56	-8.25	-6.42	-4.73	-2.33	-1.38	-2.42	-4.99	-6.53	-7.03	-9.84	-15.92
315	-18.70	-12.51	-8.16	-6.17	-4.42	-2.22	-1.37	-2.48	-5.08	-6.66	-7.29	-10.36	-16.77
330	-18.01	-12.51	-7.99	-5.88	-4.11	-2.07	-1.35	-2.51	-5.11	-6.80	-7.52	-10.91	-17.92
345	-17.24	-12.43	-7.81	-5.53	-3.80	-1.92	-1.31	-2.48	-5.08	-6.82	-7.75	-11.51	-19.31
360	-16.05	-12.29	-7.60	-5.20	-3.50	-1.81	-1.26	-2.40	-4.96	-6.88	-8.03	-12.24	-21.26
Avg.	-14.85	-11.18	-7.49	-5.61	-4.17	-2.28	-1.37	-2.23	-4.63	-6.42	-7.10	-10.04	-16.96
Peak Value		-0.928		Minimum Value		-32.128							

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-19.11	-13.23	-7.78	-5.22	-3.51	-1.87	-1.33	-2.45	-5.05	-7.06	-8.21	-12.65	-32.44
15	-18.81	-13.43	-7.77	-5.09	-3.38	-1.80	-1.28	-2.40	-4.96	-7.08	-8.33	-12.98	-30.66
30	-18.54	-13.66	-7.81	-5.04	-3.31	-1.79	-1.26	-2.33	-4.89	-7.15	-8.52	-13.32	-29.84
45	-18.59	-13.97	-7.98	-5.17	-3.41	-1.86	-1.29	-2.30	-4.88	-7.23	-8.62	-13.44	-30.60
60	-18.98	-14.25	-8.16	-5.33	-3.49	-1.92	-1.31	-2.30	-4.87	-7.29	-8.67	-13.29	-32.54
75	-19.63	-14.45	-8.42	-5.60	-3.84	-2.18	-1.41	-2.30	-4.85	-7.28	-8.56	-12.90	-33.46
90	-20.79	-14.47	-8.61	-5.88	-4.13	-2.38	-1.51	-2.29	-4.84	-7.20	-8.31	-12.28	-28.17
105	-22.25	-14.23	-8.58	-6.00	-4.36	-2.54	-1.58	-2.30	-4.78	-7.06	-7.97	-11.47	-22.49
120	-23.92	-13.65	-8.44	-6.03	-4.49	-2.62	-1.56	-2.23	-4.67	-6.76	-7.43	-10.55	-20.12
135	-24.47	-13.07	-8.12	-5.94	-4.49	-2.58	-1.48	-2.13	-4.55	-6.44	-6.92	-9.66	-17.64
150	-23.96	-12.42	-7.84	-5.76	-4.38	-2.42	-1.33	-2.03	-4.42	-6.14	-6.44	-8.93	-16.06
165	-23.14	-11.90	-7.53	-5.64	-4.25	-2.27	-1.16	-1.90	-4.32	-5.83	-6.04	-8.39	-14.92
180	-22.73	-11.57	-7.32	-5.52	-4.18	-2.14	-1.04	-1.79	-4.22	-5.67	-5.77	-7.96	-14.29
195	-22.65	-11.37	-7.23	-5.53	-4.20	-2.07	-0.94	-1.73	-4.17	-5.58	-5.61	-7.82	-14.00
210	-22.95	-11.45	-7.36	-5.63	-4.32	-2.09	-0.95	-1.75	-4.19	-5.55	-5.61	-7.82	-14.13
225	-23.82	-11.67	-7.51	-5.83	-4.43	-2.18	-1.01	-1.87	-4.30	-5.74	-5.79	-8.03	-14.64
240	-24.69	-12.13	-7.78	-6.07	-4.68	-2.36	-1.21	-2.04	-4.51	-5.96	-6.09	-8.48	-15.48
255	-24.57	-12.52	-8.05	-6.29	-4.86	-2.52	-1.39	-2.27	-4.80	-6.30	-6.50	-9.03	-16.77
270	-24.02	-12.91	-8.30	-6.47	-5.01	-2.67	-1.60	-2.54	-5.12	-6.70	-6.93	-9.69	-18.69
285	-23.25	-13.15	-8.44	-6.50	-5.01	-2.72	-1.73	-2.75	-5.37	-6.95	-7.27	-10.28	-20.85
300	-22.08	-13.21	-8.43	-6.44	-4.84	-2.65	-1.77	-2.84	-5.49	-7.10	-7.55	-10.79	-23.64
315	-21.16	-13.17	-8.35	-6.20	-4.53	-2.50	-1.71	-2.82	-5.47	-7.12	-7.74	-11.25	-27.52
330	-20.34	-13.17	-8.17	-5.90	-4.19	-2.28	-1.60	-2.74	-5.36	-7.14	-7.85	-11.68	-33.10
345	-19.78	-13.14	-7.97	-5.54	-3.84	-2.06	-1.46	-2.61	-5.24	-7.05	-8.00	-12.11	-34.09
360	-19.11	-13.23	-7.78	-5.22	-3.51	-1.87	-1.33	-2.45	-5.05	-7.06	-8.21	-12.65	-32.44
Avg.	-21.51	-13.08	-8.16	-5.93	-4.36	-2.44	-1.54	-2.44	-4.96	-6.78	-7.33	-10.37	-18.88
Peak Value		-0.937		Minimum Value		-34.091							

Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-19.02	-19.40	-21.39	-27.75	-27.35	-20.07	-19.50	-21.85	-21.98	-20.73	-21.94	-22.71	-21.60
15	-17.68	-18.36	-20.02	-23.98	-26.34	-22.46	-22.74	-25.37	-21.95	-20.56	-22.86	-25.21	-24.22
30	-16.21	-16.88	-18.21	-19.71	-21.71	-22.93	-25.69	-23.68	-19.91	-19.75	-23.32	-28.73	-28.31
45	-14.91	-15.47	-16.35	-17.33	-18.49	-20.54	-22.20	-19.56	-17.67	-18.54	-22.81	-32.11	-36.56
60	-13.85	-14.13	-14.67	-15.20	-16.02	-17.49	-17.69	-16.30	-15.76	-17.47	-22.21	-31.48	-42.58
75	-13.03	-13.16	-13.53	-13.77	-14.37	-15.41	-15.08	-14.00	-14.09	-16.31	-20.81	-27.01	-27.62
90	-12.45	-12.51	-12.68	-12.82	-13.27	-13.97	-13.39	-12.43	-12.96	-15.44	-19.90	-24.34	-25.52
105	-12.20	-12.12	-12.10	-12.30	-12.81	-13.32	-12.57	-11.65	-12.30	-14.93	-19.12	-22.69	-24.25
120	-12.26	-11.96	-11.98	-12.28	-13.06	-13.45	-12.48	-11.49	-12.18	-14.78	-18.85	-21.94	-24.05
135	-12.44	-12.24	-12.20	-12.71	-13.85	-14.31	-13.03	-12.18	-12.44	-15.05	-19.07	-22.16	-24.54
150	-13.15	-12.78	-12.77	-13.53	-15.07	-15.91	-14.36	-13.00	-13.46	-15.89	-20.10	-23.29	-26.08
165	-13.98	-13.46	-13.43	-14.50	-16.85	-18.44	-16.55	-15.52	-15.15	-17.50	-22.04	-26.41	-30.12
180	-14.97	-14.36	-14.29	-15.84	-19.48	-23.18	-20.49	-18.49	-17.77	-19.89	-25.78	-31.97	-36.14
195	-16.15	-15.38	-15.42	-17.24	-22.50	-34.56	-27.51	-24.50	-21.92	-23.12	-31.30	-36.96	-31.59
210	-17.44	-16.54	-16.67	-19.10	-25.34	-28.98	-27.72	-48.38	-27.09	-24.51	-27.82	-27.73	-25.80
225	-18.74	-17.68	-17.77	-20.65	-25.22	-21.89	-20.62	-23.59	-23.55	-21.40	-22.55	-22.34	-21.69
240	-20.23	-18.96	-19.26	-22.92	-24.31	-18.30	-16.87	-18.16	-19.19	-18.55	-19.10	-19.56	-19.47
255	-21.19	-19.84	-20.45	-26.33	-23.01	-16.19	-14.47	-15.15	-16.33	-16.40	-17.16	-17.74	-17.87
270	-21.80	-20.64	-21.66	-31.04	-21.74	-14.89	-12.91	-13.47	-14.82	-15.39	-16.19	-16.85	-16.90
285	-22.35	-20.99	-22.07	-32.60	-20.89	-14.05	-12.21	-12.73	-14.32	-15.20	-15.91	-16.61	-16.58
300	-22.48	-21.11	-22.02	-29.33	-20.53	-13.88	-12.10	-12.84	-14.62	-15.63	-16.49	-16.95	-16.72
315	-22.34	-21.01	-21.89	-27.99	-20.61	-14.29	-12.64	-13.70	-15.75	-16.66	-17.44	-17.64	-17.15
330	-21.84	-20.98	-21.95	-27.85	-21.69	-15.34	-13.89	-15.27	-17.58	-18.12	-18.78	-18.81	-18.05
345	-20.77	-20.62	-22.06	-29.99	-24.00	-17.04	-15.78	-17.80	-19.69	-19.70	-20.31	-20.43	-19.46
360	-19.02	-19.40	-21.39	-27.75	-27.35	-20.07	-19.50	-21.85	-21.98	-20.73	-21.94	-22.71	-21.60
Avg.	-15.90	-15.67	-15.95	-17.07	-17.92	-16.69	-15.46	-15.34	-15.97	-17.46	-19.92	-21.43	-21.44
Peak Value	-11.485	Minimum Value -48.381											

RHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.16	-20.66	-12.70	-8.71	-6.03	-4.52	-4.36	-5.42	-7.63	-10.18	-12.55	-18.91	-23.29
15	-16.81	-20.53	-12.76	-8.54	-5.82	-4.30	-4.11	-5.06	-7.11	-9.68	-12.09	-18.30	-24.43
30	-15.54	-20.17	-12.91	-8.51	-5.64	-4.08	-3.81	-4.63	-6.55	-9.13	-11.75	-17.62	-26.45
45	-14.60	-19.92	-13.33	-8.72	-5.72	-4.01	-3.62	-4.29	-6.10	-8.62	-11.21	-16.74	-30.18
60	-14.00	-19.66	-14.05	-9.14	-5.83	-3.98	-3.42	-4.04	-5.74	-8.20	-10.70	-15.62	-38.81
75	-13.73	-19.74	-15.01	-9.85	-6.38	-4.28	-3.47	-3.89	-5.44	-7.74	-10.06	-14.43	-31.71
90	-13.80	-20.32	-16.39	-10.82	-7.08	-4.64	-3.65	-3.86	-5.31	-7.38	-9.45	-13.36	-26.06
105	-14.27	-21.72	-17.87	-11.87	-7.85	-5.12	-3.93	-4.00	-5.27	-7.13	-8.91	-12.38	-21.69
120	-15.19	-23.83	-18.93	-12.73	-8.62	-5.65	-4.26	-4.18	-5.33	-6.89	-8.39	-11.52	-20.00
135	-16.30	-27.40	-18.83	-13.01	-9.00	-6.05	-4.53	-4.53	-5.44	-6.76	-8.01	-10.88	-18.29
150	-17.98	-30.84	-17.80	-12.52	-8.97	-6.11	-4.69	-4.66	-5.66	-6.76	-7.81	-10.49	-17.41
165	-19.88	-29.16	-16.53	-12.00	-8.59	-5.92	-4.65	-4.82	-5.88	-6.86	-7.78	-10.46	-17.21
180	-22.00	-25.55	-15.37	-11.22	-8.02	-5.53	-4.49	-4.83	-6.10	-7.14	-7.96	-10.58	-17.45
195	-24.40	-22.96	-14.40	-10.61	-7.53	-5.13	-4.27	-4.79	-6.35	-7.54	-8.33	-11.06	-18.24
210	-26.66	-21.49	-13.87	-10.15	-7.11	-4.82	-4.10	-4.79	-6.60	-7.98	-8.90	-11.76	-19.61
225	-28.55	-20.71	-13.61	-9.99	-6.86	-4.62	-3.96	-4.83	-6.87	-8.84	-9.80	-12.87	-21.92
240	-30.59	-20.42	-13.42	-9.88	-6.84	-4.61	-4.06	-4.97	-7.31	-9.62	-10.84	-14.28	-24.40
255	-32.68	-20.36	-13.44	-9.93	-6.87	-4.66	-4.18	-5.24	-7.82	-10.63	-12.07	-15.96	-26.47
270	-33.12	-20.28	-13.39	-9.93	-6.99	-4.85	-4.47	-5.64	-8.47	-11.66	-13.22	-17.68	-26.82
285	-31.93	-20.33	-13.37	-9.94	-7.11	-5.09	-4.82	-6.08	-9.03	-12.35	-14.01	-19.02	-25.52
300	-29.10	-20.38	-13.31	-9.92	-7.16	-5.25	-5.07	-6.42	-9.44	-12.67	-14.22	-19.66	-24.35
315	-25.83	-20.57	-13.24	-9.74	-7.03	-5.31	-5.18	-6.52	-9.43	-12.39	-14.04	-19.91	-23.24
330	-22.92	-20.72	-13.07	-9.48	-6.83	-5.18	-5.08	-6.37	-9.03	-11.85	-13.56	-19.70	-22.65
345	-20.54	-20.75	-12.89	-9.09	-6.49	-4.89	-4.79	-6.00	-8.47	-10.93	-13.09	-19.31	-22.49
360	-18.16	-20.66	-12.70	-8.71	-6.03	-4.52	-4.36	-5.42	-7.63	-10.18	-12.55	-18.91	-23.29
Avg.	-18.25	-21.48	-14.41	-10.26	-7.17	-5.08	-4.44	-5.10	-6.90	-8.89	-10.43	-14.05	-21.83
Peak Value	-3.422	Minimum Value -38.810											

LHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-20.21	-12.98	-9.20	-7.76	-7.04	-5.13	-4.18	-5.40	-8.35	-9.61	-9.93	-13.29	-25.54
15	-20.26	-12.91	-9.06	-7.59	-6.99	-5.31	-4.42	-5.75	-8.83	-10.14	-10.44	-14.14	-29.83
30	-20.01	-12.68	-8.88	-7.38	-6.98	-5.60	-4.75	-6.12	-9.48	-10.91	-11.06	-15.15	-36.09
45	-19.44	-12.34	-8.66	-7.24	-6.93	-5.78	-5.03	-6.42	-10.16	-11.81	-11.75	-16.07	-38.78
60	-18.53	-11.84	-8.31	-6.97	-6.76	-5.84	-5.20	-6.62	-10.66	-12.73	-12.47	-16.96	-33.18
75	-17.36	-11.33	-8.05	-6.70	-6.58	-5.82	-5.16	-6.57	-10.92	-13.74	-13.10	-17.64	-28.23
90	-16.27	-10.83	-7.72	-6.43	-6.25	-5.61	-4.95	-6.28	-10.76	-14.41	-13.54	-17.76	-27.33
105	-15.39	-10.34	-7.35	-6.11	-5.94	-5.28	-4.60	-5.87	-10.27	-14.56	-13.63	-17.27	-25.82
120	-14.78	-9.89	-7.12	-5.93	-5.73	-4.94	-4.21	-5.42	-9.65	-14.03	-13.13	-16.20	-24.36
135	-14.30	-9.70	-6.97	-5.88	-5.68	-4.68	-3.88	-4.93	-9.14	-13.24	-12.39	-14.87	-22.30
150	-14.37	-9.62	-6.97	-5.95	-5.70	-4.52	-3.63	-4.75	-8.72	-12.35	-11.47	-13.63	-20.40
165	-14.61	-9.64	-7.00	-6.10	-5.89	-4.55	-3.52	-4.63	-8.47	-11.37	-10.55	-12.42	-18.47
180	-15.10	-9.85	-7.13	-6.36	-6.28	-4.74	-3.56	-4.60	-8.25	-10.55	-9.68	-11.37	-17.10
195	-15.84	-10.14	-7.41	-6.73	-6.80	-5.02	-3.63	-4.65	-8.04	-9.78	-8.92	-10.60	-15.93
210	-16.79	-10.62	-7.85	-7.23	-7.49	-5.39	-3.81	-4.72	-7.85	-9.11	-8.30	-10.00	-15.18
225	-17.93	-11.16	-8.22	-7.70	-8.03	-5.74	-3.99	-4.87	-7.69	-8.45	-7.85	-9.52	-14.60
240	-19.21	-11.88	-8.75	-8.25	-8.63	-6.03	-4.14	-4.91	-7.45	-8.01	-7.55	-9.37	-14.44
255	-19.76	-12.43	-9.19	-8.68	-8.99	-6.17	-4.20	-4.90	-7.23	-7.68	-7.42	-9.34	-14.54
270	-19.96	-12.97	-9.63	-9.04	-9.12	-6.10	-4.14	-4.83	-7.04	-7.58	-7.47	-9.54	-14.97
285	-20.04	-13.27	-9.85	-9.11	-8.89	-5.79	-3.97	-4.71	-6.93	-7.60	-7.61	-9.87	-15.62
300	-19.74	-13.34	-9.87	-8.98	-8.40	-5.44	-3.81	-4.63	-6.92	-7.74	-7.95	-10.32	-16.59
315	-19.64	-13.25	-9.77	-8.69	-7.87	-5.16	-3.71	-4.66	-7.07	-8.01	-8.33	-10.87	-17.87
330	-19.71	-13.22	-9.61	-8.36	-7.44	-4.98	-3.74	-4.80	-7.37	-8.43	-8.76	-11.53	-19.70
345	-19.97	-13.12	-9.42	-8.05	-7.15	-4.97	-3.89	-5.03	-7.75	-8.96	-9.25	-12.30	-22.16
360	-20.21	-12.98	-9.20	-7.76	-7.04	-5.13	-4.18	-5.40	-8.35	-9.61	-9.93	-13.29	-25.54
Avg.	-17.49	-11.60	-8.48	-7.44	-7.20	-5.51	-4.32	-5.38	-8.54	-10.05	-9.81	-12.24	-18.68
Peak Value	-3.522	Minimum Value -38.777											

AR													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	18.61	7.63	14.04	25.20	24.78	29.19	39.59	63.07	27.65	29.59	16.51	10.10	17.82
15	14.15	7.69	13.57	25.27	23.47	24.73	34.77	27.97	20.10	31.44	20.47	12.58	10.43
30	11.98	7.82	12.86	23.74	22.26	21.20	25.31	21.37	15.53	19.81	27.99	17.00	5.95
45	11.32	7.74	11.62	21.42	23.15	19.87	21.81	18.28	12.79	14.83	30.17	28.40	6.78
60	11.87	7.49	9.92	18.12	25.42	19.44	19.83	16.62	11.19	11.87	19.89	22.24	10.08
75	13.73	6.95	8.39	14.94	38.72	21.07	20.30	16.32	10.30	9.58	15.23	14.78	14.06
90	17.02	6.06	6.72	12.12	26.48	25.06	22.55	17.16	10.34	8.31	12.72	12.11	22.69
105	23.84	4.80	5.34	9.89	19.22	41.09	28.27	19.38	11.04	7.88	11.52	11.24	12.63
120	32.63	3.54	4.57	8.58	15.65	27.70	51.71	22.92	12.26	8.20	11.48	11.60	12.20
135	18.82	2.28	4.53	8.21	14.49	22.08	28.58	32.76	13.58	8.96	12.15	12.94	12.88
150	13.79	1.51	5.14	8.85	14.60	20.80	24.29	46.02	15.17	10.14	13.66	14.96	15.37
165	10.63	1.84	6.03	9.71	16.24	22.08	23.74	39.39	16.59	11.91	16.00	18.97	22.82
180	8.46	2.88	7.10	11.30	20.04	26.89	25.42	37.50	18.22	14.25	20.13	26.78	33.76
195	6.82	4.04	8.35	13.16	27.55	44.62	28.74	42.37	20.23	17.83	29.39	31.52	17.60
210	5.78	5.11	9.54	15.59	33.19	29.77	35.39	48.03	22.92	23.72	29.15	19.91	12.05
225	5.27	6.01	10.44	17.66	23.46	23.86	54.38	51.81	26.45	32.96	19.01	14.40	8.00
240	4.80	6.84	11.62	20.54	19.78	21.74	47.10	49.07	41.72	20.65	14.54	11.21	5.72
255	3.99	7.39	12.41	22.91	18.30	21.24	56.67	34.28	29.26	15.49	11.65	8.79	4.50
270	3.88	8.00	13.42	25.79	18.28	22.86	34.46	26.65	21.72	12.75	9.91	7.19	4.54
285	4.52	8.28	13.98	26.43	19.83	27.84	26.22	22.09	18.40	11.47	9.05	6.33	5.76
300	6.16	8.30	14.16	25.35	22.92	39.37	22.82	19.79	16.82	11.16	9.23	6.17	7.55
315	9.31	8.00	14.10	24.33	26.34	41.17	21.47	19.43	17.39	12.15	9.97	6.41	10.48
330	14.75	7.81	14.12	23.80	29.13	39.00	22.24	20.88	20.45	14.24	11.38	7.16	15.48
345	29.57	7.68	14.11	24.47	28.32	46.46	25.67	25.13	27.72	18.95	13.25	8.33	34.26
360	18.61	7.63	14.04	25.20	24.78	29.19	39.59	63.07	27.65	29.59	16.51	10.10	17.82
Avg.	21.31	6.36	11.26	21.57	27.72	36.86	45.85	49.83	28.68	23.12	22.12	21.09	23.64
Peak Value	63.072	Minimum Value 1.513											

508.5 MHz

Horizontal + Vertical													
φ [deg]	θ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.25	-12.85	-8.15	-5.74	-4.06	-2.36	-1.78	-2.90	-5.40	-7.29	-8.49	-12.56	-21.33
15	-15.36	-12.68	-8.07	-5.57	-3.92	-2.32	-1.79	-2.86	-5.31	-7.31	-8.61	-13.08	-23.55
30	-14.38	-12.38	-7.97	-5.44	-3.80	-2.32	-1.79	-2.81	-5.19	-7.32	-8.81	-13.55	-26.86
45	-13.33	-11.97	-7.89	-5.43	-3.81	-2.36	-1.79	-2.71	-5.07	-7.29	-8.87	-13.68	-31.65
60	-12.63	-11.47	-7.78	-5.42	-3.79	-2.36	-1.76	-2.60	-4.93	-7.26	-8.87	-13.59	-34.05
75	-12.12	-10.96	-7.69	-5.45	-3.97	-2.49	-1.75	-2.49	-4.76	-7.12	-8.70	-13.09	-26.68
90	-11.69	-10.52	-7.54	-5.52	-4.11	-2.60	-1.73	-2.34	-4.59	-6.95	-8.41	-12.33	-24.31
105	-11.63	-10.17	-7.35	-5.53	-4.27	-2.73	-1.73	-2.26	-4.44	-6.74	-8.03	-11.55	-21.97
120	-11.82	-9.89	-7.19	-5.55	-4.43	-2.79	-1.71	-2.19	-4.32	-6.47	-7.54	-10.65	-18.85
135	-12.04	-9.83	-7.10	-5.56	-4.53	-2.82	-1.66	-2.17	-4.29	-6.26	-7.06	-9.87	-17.16
150	-12.62	-9.82	-6.94	-5.56	-4.56	-2.78	-1.62	-2.14	-4.32	-6.08	-6.70	-9.23	-16.09
165	-13.37	-9.94	-6.98	-5.62	-4.60	-2.73	-1.56	-2.11	-4.36	-5.98	-6.38	-8.79	-15.29
180	-14.24	-10.05	-7.01	-5.66	-4.65	-2.68	-1.51	-2.17	-4.46	-5.96	-6.18	-8.48	-14.76
195	-15.24	-10.34	-7.15	-5.80	-4.74	-2.64	-1.48	-2.21	-4.54	-5.96	-6.10	-8.34	-14.55
210	-16.43	-10.74	-7.41	-6.03	-4.91	-2.66	-1.49	-2.25	-4.61	-5.98	-6.12	-8.31	-14.42
225	-17.65	-11.25	-7.69	-6.26	-5.03	-2.72	-1.51	-2.30	-4.70	-6.08	-6.19	-8.41	-14.36
240	-18.95	-11.80	-8.05	-6.58	-5.25	-2.80	-1.59	-2.40	-4.77	-6.17	-6.36	-8.65	-14.46
255	-19.77	-12.38	-8.42	-6.83	-5.39	-2.90	-1.69	-2.49	-4.91	-6.32	-6.58	-8.94	-14.56
270	-20.02	-12.79	-8.70	-7.07	-5.54	-2.96	-1.76	-2.63	-5.04	-6.52	-6.87	-9.37	-14.90
285	-19.87	-13.04	-8.81	-7.08	-5.46	-2.93	-1.82	-2.74	-5.22	-6.73	-7.17	-9.80	-15.25
300	-19.53	-13.13	-8.82	-6.99	-5.28	-2.84	-1.86	-2.86	-5.35	-6.90	-7.44	-10.22	-15.85
315	-18.95	-13.08	-8.73	-6.75	-4.97	-2.72	-1.86	-2.93	-5.50	-7.10	-7.73	-10.77	-16.76
330	-18.37	-13.03	-8.56	-6.42	-4.65	-2.59	-1.85	-2.96	-5.52	-7.21	-7.95	-11.31	-17.88
345	-17.51	-13.01	-8.37	-6.11	-4.37	-2.47	-1.82	-2.97	-5.49	-7.24	-8.19	-11.89	-19.30
360	-16.25	-12.85	-8.15	-5.74	-4.06	-2.36	-1.78	-2.90	-5.40	-7.29	-8.49	-12.56	-21.33
Avg.	-14.82	-11.55	-7.98	-6.14	-4.73	-2.82	-1.88	-2.69	-5.04	-6.82	-7.54	-10.49	-17.32
Peak Value		-1.476		Minimum Value		-34.050							

Horizontal													
φ [deg]	θ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-19.82	-13.97	-8.36	-5.76	-4.08	-2.44	-1.86	-2.95	-5.50	-7.49	-8.68	-12.99	-33.48
15	-19.63	-14.13	-8.36	-5.64	-3.94	-2.37	-1.83	-2.89	-5.41	-7.53	-8.77	-13.33	-32.15
30	-19.35	-14.40	-8.41	-5.60	-3.88	-2.36	-1.81	-2.85	-5.35	-7.59	-8.96	-13.66	-31.92
45	-19.29	-14.67	-8.57	-5.73	-3.97	-2.44	-1.83	-2.81	-5.34	-7.66	-9.06	-13.74	-32.91
60	-19.56	-15.00	-8.81	-5.92	-4.06	-2.51	-1.88	-2.81	-5.33	-7.73	-9.09	-13.67	-35.44
75	-20.32	-15.14	-9.01	-6.14	-4.39	-2.73	-1.96	-2.82	-5.32	-7.73	-9.00	-13.28	-34.94
90	-21.56	-15.17	-9.19	-6.41	-4.69	-2.94	-2.05	-2.80	-5.32	-7.67	-8.76	-12.65	-28.53
105	-23.07	-14.92	-9.18	-6.58	-4.93	-3.13	-2.12	-2.80	-5.26	-7.51	-8.41	-11.93	-25.09
120	-24.73	-14.31	-9.02	-6.61	-5.08	-3.19	-2.10	-2.75	-5.14	-7.21	-7.92	-11.00	-20.54
135	-25.46	-13.72	-8.75	-6.52	-5.08	-3.14	-2.00	-2.63	-5.04	-6.91	-7.37	-10.16	-18.10
150	-24.85	-13.09	-8.42	-6.34	-4.97	-3.00	-1.86	-2.52	-4.91	-6.60	-6.92	-9.42	-16.57
165	-24.24	-12.63	-8.13	-6.24	-4.87	-2.85	-1.70	-2.39	-4.76	-6.33	-6.50	-8.88	-15.43
180	-23.82	-12.21	-7.94	-6.11	-4.79	-2.72	-1.57	-2.28	-4.68	-6.15	-6.24	-8.50	-14.79
195	-23.90	-12.08	-7.88	-6.13	-4.81	-2.64	-1.49	-2.24	-4.62	-6.06	-6.12	-8.34	-14.63
210	-24.21	-12.15	-7.98	-6.26	-4.95	-2.67	-1.51	-2.25	-4.64	-6.05	-6.15	-8.37	-14.75
225	-25.07	-12.43	-8.15	-6.42	-5.07	-2.78	-1.57	-2.34	-4.76	-6.21	-6.31	-8.59	-15.26
240	-25.71	-12.80	-8.40	-6.69	-5.31	-2.93	-1.73	-2.53	-4.94	-6.44	-6.61	-9.04	-16.13
255	-26.15	-13.28	-8.71	-6.88	-5.46	-3.12	-1.94	-2.75	-5.26	-6.78	-6.99	-9.58	-17.40
270	-25.28	-13.62	-8.93	-7.09	-5.64	-3.27	-2.13	-3.02	-5.56	-7.14	-7.42	-10.22	-19.30
285	-24.17	-13.85	-9.05	-7.10	-5.59	-3.30	-2.26	-3.22	-5.82	-7.43	-7.79	-10.83	-21.32
300	-22.99	-13.93	-9.06	-7.02	-5.42	-3.21	-2.31	-3.34	-5.92	-7.54	-8.02	-11.30	-24.18
315	-21.89	-13.88	-8.97	-6.79	-5.09	-3.04	-2.25	-3.32	-5.92	-7.61	-8.22	-11.75	-27.51
330	-21.15	-13.85	-8.77	-6.45	-4.74	-2.84	-2.13	-3.23	-5.80	-7.57	-8.31	-12.14	-31.83
345	-20.59	-13.88	-8.57	-6.14	-4.42	-2.62	-2.00	-3.11	-5.66	-7.49	-8.46	-12.54	-35.07
360	-19.82	-13.97	-8.36	-5.76	-4.08	-2.44	-1.86	-2.95	-5.50	-7.49	-8.68	-12.99	-33.48
Avg.	-22.36	-13.79	-8.77	-6.51	-4.95	-3.01	-2.08	-2.94	-5.42	-7.24	-7.81	-10.86	-19.49
Peak Value		-1.485		Minimum Value		-35.438							

Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.76	-19.29	-21.27	-27.93	-27.47	-19.78	-19.18	-21.79	-21.87	-20.66	-22.21	-22.85	-21.60
15	-17.40	-18.15	-20.02	-23.83	-26.21	-22.18	-22.60	-24.85	-21.51	-20.46	-22.92	-25.56	-24.20
30	-16.04	-16.69	-18.10	-19.70	-21.57	-22.70	-25.21	-23.23	-19.60	-19.53	-23.42	-29.31	-28.49
45	-14.60	-15.30	-16.24	-17.23	-18.21	-20.08	-21.83	-19.10	-17.32	-18.20	-22.67	-32.28	-37.63
60	-13.61	-14.02	-14.54	-15.11	-15.85	-17.20	-17.61	-16.00	-15.43	-17.16	-21.92	-31.23	-39.68
75	-12.83	-13.04	-13.49	-13.74	-14.23	-15.18	-14.98	-13.83	-13.88	-15.91	-20.56	-26.68	-27.38
90	-12.16	-12.33	-12.54	-12.82	-13.15	-13.82	-13.28	-12.28	-12.72	-15.14	-19.52	-23.86	-26.38
105	-11.96	-11.94	-11.96	-12.20	-12.78	-13.25	-12.45	-11.55	-12.11	-14.63	-18.73	-22.31	-24.86
120	-12.05	-11.83	-11.83	-12.19	-12.94	-13.31	-12.36	-11.38	-11.95	-14.49	-18.37	-21.75	-23.77
135	-12.24	-12.11	-12.11	-12.60	-13.76	-14.25	-12.92	-12.10	-12.29	-14.83	-18.62	-21.80	-24.26
150	-12.88	-12.60	-12.32	-13.37	-14.96	-15.85	-14.26	-12.89	-13.29	-15.57	-19.71	-22.96	-25.88
165	-13.74	-13.29	-13.34	-14.39	-16.79	-18.46	-16.56	-14.18	-14.96	-17.15	-21.69	-25.88	-30.13
180	-14.74	-14.13	-14.13	-15.78	-19.44	-23.30	-20.62	-18.43	-17.61	-19.51	-25.25	-32.01	-36.11
195	-15.88	-15.15	-15.23	-17.21	-22.37	-36.17	-28.07	-24.78	-21.82	-22.51	-30.61	-38.50	-32.00
210	-17.22	-16.33	-16.48	-18.97	-25.05	-28.54	-27.33	-44.31	-26.31	-24.22	-27.51	-27.47	-25.84
225	-18.51	-17.49	-17.69	-20.55	-25.40	-21.65	-20.23	-23.11	-22.85	-21.17	-22.18	-22.32	-21.64
240	-19.99	-18.70	-19.13	-22.90	-23.87	-18.04	-16.47	-17.81	-18.79	-18.27	-18.90	-19.33	-19.42
255	-20.91	-19.63	-20.42	-26.39	-22.91	-15.94	-14.15	-14.86	-16.05	-16.25	-17.02	-17.62	-17.75
270	-21.56	-20.37	-21.45	-30.83	-21.79	-14.62	-12.65	-13.21	-14.59	-15.24	-16.08	-16.84	-16.86
285	-21.89	-20.70	-21.62	-31.51	-20.82	-13.80	-11.99	-12.58	-14.15	-15.06	-15.96	-16.57	-16.48
300	-22.14	-20.88	-21.66	-28.21	-20.36	-13.70	-11.93	-12.69	-14.47	-15.54	-16.44	-16.82	-16.54
315	-22.03	-20.84	-21.55	-26.83	-20.51	-14.18	-12.53	-13.59	-15.81	-16.65	-17.48	-17.70	-17.15
330	-21.62	-20.70	-21.66	-27.32	-21.47	-15.16	-13.80	-15.22	-17.59	-18.20	-18.96	-18.87	-18.06
345	-20.46	-20.38	-21.88	-28.31	-24.15	-16.97	-15.72	-17.75	-19.81	-19.73	-20.44	-20.47	-19.42
360	-18.76	-19.29	-21.27	-27.93	-27.47	-19.78	-19.18	-21.79	-21.87	-20.66	-22.21	-22.85	-21.60
Avg.	-15.66	-15.50	-15.79	-16.97	-17.82	-16.53	-15.30	-15.14	-15.77	-17.24	-19.77	-21.34	-21.39
Peak Value			-11.384		Minimum Value		-44.309						

RHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.37	-22.25	-13.51	-9.33	-6.57	-5.04	-4.88	-5.90	-8.03	-10.59	-13.06	-19.35	-23.72
15	-17.00	-21.90	-13.57	-9.16	-6.35	-4.78	-4.60	-5.46	-7.44	-10.01	-12.56	-18.68	-25.02
30	-15.70	-21.41	-13.82	-9.14	-6.18	-4.57	-4.29	-5.06	-6.88	-9.46	-12.15	-17.95	-27.54
45	-14.59	-20.73	-14.25	-9.37	-6.22	-4.49	-4.08	-4.68	-6.40	-8.89	-11.54	-16.94	-32.06
60	-14.01	-20.22	-15.05	-9.79	-6.36	-4.48	-3.93	-4.42	-6.02	-8.47	-10.99	-15.89	-46.58
75	-13.72	-19.99	-15.94	-10.53	-6.90	-4.76	-3.94	-4.28	-5.74	-7.97	-10.37	-14.69	-30.66
90	-13.68	-20.36	-17.46	-11.51	-7.63	-5.13	-4.10	-4.23	-5.57	-7.63	-9.73	-13.56	-26.19
105	-14.11	-21.36	-19.17	-12.76	-8.47	-5.68	-4.39	-4.37	-5.54	-7.35	-9.17	-12.65	-23.35
120	-14.97	-23.39	-20.58	-13.73	-9.28	-6.21	-4.74	-4.60	-5.60	-7.13	-8.66	-11.82	-20.03
135	-15.90	-26.86	-20.67	-14.01	-9.71	-6.65	-5.05	-4.97	-5.77	-7.03	-8.28	-11.20	-18.43
150	-17.43	-31.92	-19.73	-13.61	-9.69	-6.72	-5.23	-5.10	-5.99	-7.02	-8.14	-10.84	-17.65
165	-19.20	-34.19	-17.89	-12.97	-9.32	-6.53	-5.22	-5.17	-6.18	-7.17	-8.12	-10.82	-17.55
180	-21.08	-28.98	-16.71	-12.07	-8.72	-6.14	-5.07	-5.29	-6.45	-7.47	-8.34	-11.06	-17.88
195	-23.03	-25.55	-15.64	-11.45	-8.18	-5.69	-4.83	-5.27	-6.72	-7.89	-8.79	-11.55	-18.90
210	-25.14	-23.50	-14.96	-10.98	-7.75	-5.36	-4.64	-5.25	-6.97	-8.44	-9.48	-12.40	-20.38
225	-26.83	-22.55	-14.59	-10.75	-7.48	-5.16	-4.48	-5.26	-7.28	-9.27	-10.41	-13.57	-22.94
240	-28.80	-21.92	-14.36	-10.63	-7.36	-5.10	-4.55	-5.43	-7.67	-10.12	-11.50	-15.15	-25.48
255	-29.88	-21.81	-14.33	-10.61	-7.40	-5.17	-4.69	-5.64	-8.21	-11.16	-12.78	-16.92	-27.57
270	-30.71	-21.62	-14.26	-10.65	-7.55	-5.36	-4.96	-6.08	-8.84	-12.19	-14.02	-18.68	-26.84
285	-30.89	-21.62	-14.21	-10.59	-7.65	-5.58	-5.31	-6.50	-9.47	-12.99	-14.81	-20.16	-25.09
300	-29.09	-21.60	-14.13	-10.56	-7.68	-5.76	-5.57	-6.89	-9.87	-13.27	-15.00	-20.82	-23.79
315	-26.02	-21.80	-14.05	-10.43	-7.58	-5.79	-5.69	-7.00	-9.88	-13.02	-14.73	-20.77	-23.28
330	-23.26	-22.11	-13.88	-10.10	-7.37	-5.69	-5.61	-6.86	-9.46	-12.31	-14.12	-20.45	-22.90
345	-20.78	-22.31	-13.67	-9.76	-7.02	-5.43	-5.32	-6.46	-8.85	-11.38	-13.64	-19.99	-22.67
360	-18.37	-22.25	-13.51	-9.33	-6.57	-5.04	-4.88	-5.90	-8.03	-10.59	-13.06	-19.35	-23.72
Avg.	-18.11	-22.57	-15.38	-10.98	-7.74	-5.60	-4.95	-5.53	-7.24	-9.23	-10.86	-14.50	-22.24
Peak Value			-3.931		Minimum Value		-46.581						



LHCP													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-20.37	-13.38	-9.64	-8.24	-7.63	-5.73	-4.71	-5.92	-8.82	-10.03	-10.36	-13.58	-25.06
15	-20.39	-13.24	-9.51	-8.07	-7.60	-5.96	-5.01	-6.32	-9.43	-10.65	-10.84	-14.48	-28.97
30	-20.19	-12.96	-9.28	-7.84	-7.56	-6.24	-5.38	-6.73	-10.11	-11.43	-11.52	-15.51	-35.28
45	-19.31	-12.58	-9.03	-7.68	-7.50	-6.47	-5.65	-7.09	-10.87	-12.40	-12.25	-16.45	-42.10
60	-18.28	-12.10	-8.68	-7.40	-7.28	-6.51	-5.82	-7.27	-11.45	-13.41	-12.99	-17.45	-34.30
75	-17.24	-11.53	-8.39	-7.06	-7.05	-6.41	-5.76	-7.20	-11.68	-14.61	-13.67	-18.19	-28.90
90	-16.02	-10.99	-8.01	-6.78	-6.67	-6.14	-5.50	-6.86	-11.55	-15.37	-14.21	-18.43	-28.86
105	-15.24	-10.52	-7.64	-6.44	-6.35	-5.80	-5.13	-6.40	-10.94	-15.55	-14.38	-18.07	-27.60
120	-14.70	-10.08	-7.39	-6.26	-6.15	-5.42	-4.69	-5.90	-10.25	-14.99	-13.98	-16.91	-25.11
135	-14.33	-9.92	-7.30	-6.23	-6.10	-5.14	-4.33	-5.40	-9.70	-14.13	-13.16	-15.65	-23.14
150	-14.36	-9.85	-7.17	-6.30	-6.15	-5.02	-4.10	-5.20	-9.29	-13.18	-12.20	-14.33	-21.28
165	-14.68	-9.95	-7.35	-6.50	-6.38	-5.07	-4.00	-5.08	-9.01	-12.19	-11.17	-13.07	-19.20
180	-15.24	-10.11	-7.50	-6.79	-6.81	-5.29	-4.04	-5.08	-8.80	-11.25	-10.26	-11.96	-17.67
195	-16.03	-10.47	-7.81	-7.18	-7.36	-5.61	-4.16	-5.17	-8.57	-10.41	-9.46	-11.16	-16.53
210	-17.06	-10.98	-8.25	-7.70	-8.10	-6.00	-4.38	-5.26	-8.39	-9.64	-8.80	-10.46	-15.69
225	-18.20	-11.59	-8.69	-8.17	-8.68	-6.39	-4.56	-5.37	-8.18	-8.91	-8.26	-9.98	-15.01
240	-19.43	-12.25	-9.21	-8.76	-9.40	-6.66	-4.65	-5.39	-7.89	-8.40	-7.95	-9.75	-14.82
255	-20.22	-12.90	-9.71	-9.18	-9.69	-6.81	-4.71	-5.37	-7.65	-8.04	-7.77	-9.70	-14.79
270	-20.41	-13.40	-10.11	-9.59	-9.84	-6.68	-4.59	-5.24	-7.39	-7.89	-7.80	-9.91	-15.18
285	-20.23	-13.68	-10.29	-9.64	-9.49	-6.33	-4.41	-5.12	-7.27	-7.91	-7.99	-10.22	-15.72
300	-20.04	-13.80	-10.34	-9.50	-8.99	-5.93	-4.26	-5.05	-7.24	-8.04	-8.28	-10.62	-16.61
315	-19.89	-13.71	-10.25	-9.18	-8.42	-5.66	-4.18	-5.09	-7.47	-8.38	-8.70	-11.22	-17.86
330	-20.07	-13.61	-10.06	-8.85	-7.97	-5.51	-4.22	-5.24	-7.77	-8.81	-9.15	-11.87	-19.52
345	-20.28	-13.55	-9.89	-8.56	-7.78	-5.53	-4.39	-5.54	-8.18	-9.35	-9.65	-12.62	-21.98
360	-20.37	-13.38	-9.64	-8.24	-7.63	-5.73	-4.71	-5.92	-8.82	-10.03	-10.36	-13.58	-25.06
Avg.	-17.56	-11.91	-8.86	-7.87	-7.74	-6.07	-4.84	-5.88	-9.04	-10.54	-10.27	-12.68	-19.02
Peak Value	-4.003	Minimum Value -42.105											

AR													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	18.81	6.55	13.17	24.09	24.35	28.09	39.99	59.79	26.84	29.87	16.23	9.88	22.32
15	14.30	6.72	12.78	24.14	22.90	23.35	32.50	26.15	18.86	28.72	20.14	12.48	13.02
30	11.94	6.91	11.85	22.53	21.98	20.37	24.07	20.39	14.72	18.94	28.79	17.12	7.57
45	11.54	7.19	10.70	20.26	22.68	18.91	20.92	17.22	11.98	14.02	27.71	30.90	5.65
60	12.35	7.21	9.10	17.31	25.59	18.69	19.31	15.77	10.39	11.17	18.80	20.99	4.31
75	13.97	6.90	7.77	14.13	41.46	20.46	19.66	15.56	9.65	8.77	14.53	14.04	19.96
90	17.47	6.16	6.09	11.50	25.21	24.71	21.92	16.49	9.60	7.57	11.97	11.28	16.33
105	23.75	5.13	4.72	9.15	18.35	42.85	27.39	18.71	10.43	7.14	10.72	10.39	12.40
120	36.29	3.82	3.87	7.85	14.98	26.81	50.68	22.58	11.64	7.45	10.55	10.91	10.91
135	20.92	2.49	3.78	7.53	13.76	21.21	27.71	31.94	13.05	8.23	11.25	12.01	11.54
150	15.15	1.37	4.17	8.01	13.94	20.21	23.76	44.40	14.52	9.36	12.79	14.07	13.72
165	11.89	1.07	5.32	8.97	15.54	21.52	23.12	46.02	15.83	11.03	15.19	17.79	20.46
180	9.79	1.99	6.27	10.60	19.21	26.22	24.60	38.63	17.43	13.38	19.19	25.65	38.46
195	8.35	3.09	7.48	12.36	26.44	46.57	28.31	44.51	19.47	16.80	28.32	33.15	17.38
210	7.24	4.19	8.67	14.58	34.07	28.66	36.50	60.63	21.73	23.23	28.17	19.11	11.58
225	6.76	5.06	9.70	16.62	23.26	23.05	46.05	44.27	25.67	33.60	18.18	13.81	7.39
240	6.15	5.93	10.80	19.37	18.67	20.99	44.27	52.35	37.78	20.15	13.90	10.43	5.24
255	5.93	6.52	11.71	21.72	17.63	20.56	57.00	36.10	29.77	15.00	11.03	8.11	4.06
270	5.48	7.12	12.59	24.32	17.65	22.42	33.45	26.30	21.57	12.29	9.28	6.63	4.65
285	5.24	7.39	13.07	25.28	19.56	27.40	25.75	21.99	17.97	10.92	8.55	5.73	6.15
300	6.41	7.51	13.37	24.31	22.48	40.16	22.43	19.54	16.48	10.69	8.66	5.55	8.15
315	9.40	7.23	13.33	22.87	26.36	42.29	21.25	19.21	17.19	11.67	9.52	6.02	10.39
330	14.83	6.86	13.30	22.91	29.24	40.04	21.94	20.60	20.27	14.03	11.10	6.79	14.33
345	30.79	6.64	13.38	23.24	27.19	44.35	25.42	25.45	28.35	18.70	12.93	7.94	28.02
360	18.81	6.55	13.17	24.09	24.35	28.09	39.99	59.79	26.84	29.87	16.23	9.88	22.32
Avg.	23.93	5.69	10.44	20.41	29.29	37.29	44.52	49.85	25.78	22.78	21.19	22.24	25.21
Peak Value	60.629	Minimum Value 1.068											

509.8 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.49	-13.10	-8.39	-5.95	-4.28	-2.58	-2.00	-3.05	-5.50	-7.36	-8.57	-12.64	-21.59
15	-15.52	-12.96	-8.30	-5.76	-4.11	-2.52	-1.99	-3.01	-5.41	-7.38	-8.74	-13.12	-24.01
30	-14.54	-12.65	-8.21	-5.65	-4.01	-2.52	-1.99	-2.96	-5.32	-7.40	-8.90	-13.57	-27.43
45	-13.56	-12.26	-8.16	-5.63	-4.02	-2.55	-1.99	-2.87	-5.17	-7.39	-8.96	-13.74	-33.50
60	-12.79	-11.70	-8.03	-5.64	-3.99	-2.56	-1.96	-2.77	-5.05	-7.36	-8.94	-13.60	-35.60
75	-12.23	-11.23	-7.93	-5.69	-4.18	-2.71	-1.95	-2.66	-4.86	-7.20	-8.79	-13.12	-26.84
90	-11.84	-10.74	-7.74	-5.73	-4.35	-2.82	-1.94	-2.50	-4.70	-7.03	-8.52	-12.37	-24.17
105	-11.77	-10.35	-7.59	-5.76	-4.50	-2.91	-1.93	-2.43	-4.57	-6.83	-8.17	-11.61	-21.95
120	-11.90	-10.05	-7.45	-5.77	-4.66	-2.99	-1.91	-2.35	-4.45	-6.58	-7.64	-10.74	-18.88
135	-12.07	-10.00	-7.32	-5.77	-4.73	-3.03	-1.87	-2.35	-4.40	-6.35	-7.22	-10.01	-17.28
150	-12.72	-10.04	-7.16	-5.78	-4.79	-3.02	-1.82	-2.30	-4.44	-6.20	-6.82	-9.38	-16.25
165	-13.50	-10.11	-7.22	-5.83	-4.84	-2.96	-1.76	-2.27	-4.52	-6.09	-6.53	-8.95	-15.46
180	-14.32	-10.27	-7.24	-5.90	-4.91	-2.89	-1.72	-2.33	-4.58	-6.07	-6.36	-8.64	-14.96
195	-15.33	-10.59	-7.36	-6.02	-5.00	-2.88	-1.67	-2.37	-4.65	-6.09	-6.24	-8.48	-14.79
210	-16.55	-10.97	-7.63	-6.26	-5.16	-2.91	-1.68	-2.40	-4.72	-6.13	-6.27	-8.51	-14.73
225	-17.85	-11.52	-7.97	-6.51	-5.29	-2.95	-1.69	-2.45	-4.78	-6.22	-6.35	-8.62	-14.62
240	-19.18	-12.13	-8.33	-6.83	-5.51	-3.06	-1.79	-2.53	-4.86	-6.29	-6.55	-8.85	-14.77
255	-20.03	-12.70	-8.71	-7.06	-5.67	-3.12	-1.86	-2.62	-4.96	-6.45	-6.77	-9.15	-14.74
270	-20.16	-13.15	-8.99	-7.30	-5.77	-3.20	-1.94	-2.77	-5.12	-6.67	-7.06	-9.54	-15.12
285	-20.03	-13.33	-9.07	-7.32	-5.70	-3.14	-2.01	-2.89	-5.30	-6.87	-7.34	-9.95	-15.48
300	-19.66	-13.39	-9.07	-7.21	-5.52	-3.06	-2.04	-2.99	-5.44	-7.04	-7.61	-10.40	-16.07
315	-19.23	-13.38	-8.95	-6.93	-5.19	-2.91	-2.03	-3.08	-5.57	-7.19	-7.88	-10.92	-16.88
330	-18.65	-13.29	-8.74	-6.61	-4.87	-2.77	-2.02	-3.13	-5.61	-7.32	-8.08	-11.40	-18.07
345	-17.78	-13.24	-8.58	-6.28	-4.57	-2.67	-2.02	-3.11	-5.60	-7.31	-8.30	-11.99	-19.53
360	-16.49	-13.10	-8.39	-5.95	-4.28	-2.58	-2.00	-3.05	-5.50	-7.36	-8.57	-12.64	-21.59
Avg.	-14.96	-11.79	-8.22	-6.36	-4.96	-3.04	-2.07	-2.84	-5.14	-6.93	-7.68	-10.63	-17.54
Peak Value		-1.669		Minimum Value		-35.596							

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-20.23	-14.25	-8.62	-5.98	-4.30	-2.66	-2.08	-3.10	-5.60	-7.55	-8.75	-13.04	-33.57
15	-20.01	-14.48	-8.59	-5.82	-4.14	-2.57	-2.03	-3.04	-5.52	-7.59	-8.89	-13.34	-32.75
30	-19.70	-14.71	-8.65	-5.81	-4.08	-2.57	-2.01	-3.00	-5.49	-7.68	-9.05	-13.66	-32.86
45	-19.75	-15.07	-8.85	-5.92	-4.19	-2.63	-2.04	-2.97	-5.44	-7.76	-9.14	-13.79	-34.74
60	-20.02	-15.28	-9.05	-6.12	-4.27	-2.71	-2.08	-2.98	-5.47	-7.85	-9.17	-13.68	-39.20
75	-20.64	-15.54	-9.28	-6.39	-4.62	-2.96	-2.17	-2.99	-5.45	-7.82	-9.09	-13.32	-35.59
90	-21.81	-15.46	-9.40	-6.63	-4.94	-3.17	-2.26	-2.96	-5.43	-7.76	-8.87	-12.70	-28.12
105	-23.37	-15.18	-9.43	-6.82	-5.16	-3.31	-2.32	-2.97	-5.40	-7.63	-8.57	-12.01	-25.14
120	-25.05	-14.59	-9.29	-6.83	-5.32	-3.39	-2.30	-2.91	-5.29	-7.35	-8.02	-11.12	-20.56
135	-25.71	-14.00	-8.98	-6.74	-5.29	-3.35	-2.20	-2.80	-5.15	-7.02	-7.54	-10.32	-18.25
150	-25.48	-13.39	-8.65	-6.57	-5.21	-3.24	-2.05	-2.68	-5.02	-6.74	-7.05	-9.58	-16.77
165	-25.07	-12.87	-8.39	-6.45	-5.11	-3.07	-1.90	-2.55	-4.91	-6.45	-6.67	-9.05	-15.64
180	-24.49	-12.52	-8.18	-6.35	-5.06	-2.93	-1.76	-2.43	-4.80	-6.27	-6.42	-8.66	-14.98
195	-24.64	-12.38	-8.10	-6.35	-5.08	-2.88	-1.68	-2.39	-4.73	-6.18	-6.26	-8.49	-14.86
210	-25.04	-12.43	-8.21	-6.49	-5.21	-2.92	-1.70	-2.40	-4.75	-6.20	-6.30	-8.56	-15.05
225	-26.05	-12.75	-8.44	-6.68	-5.33	-3.01	-1.75	-2.49	-4.84	-6.35	-6.47	-8.80	-15.51
240	-27.03	-13.17	-8.70	-6.93	-5.57	-3.20	-1.94	-2.67	-5.04	-6.58	-6.80	-9.22	-16.49
255	-27.06	-13.67	-9.02	-7.11	-5.74	-3.35	-2.13	-2.89	-5.32	-6.91	-7.18	-9.77	-17.63
270	-25.98	-14.06	-9.25	-7.32	-5.88	-3.51	-2.32	-3.17	-5.63	-7.29	-7.61	-10.40	-19.56
285	-24.75	-14.24	-9.31	-7.34	-5.83	-3.51	-2.46	-3.37	-5.90	-7.55	-7.94	-10.97	-21.51
300	-23.44	-14.26	-9.33	-7.25	-5.66	-3.45	-2.49	-3.47	-6.00	-7.66	-8.16	-11.43	-24.29
315	-22.41	-14.22	-9.20	-6.98	-5.31	-3.24	-2.42	-3.46	-5.99	-7.66	-8.34	-11.86	-27.20
330	-21.68	-14.15	-8.97	-6.66	-4.96	-3.02	-2.31	-3.38	-5.88	-7.66	-8.43	-12.18	-31.00
345	-21.10	-14.18	-8.78	-6.31	-4.62	-2.83	-2.20	-3.25	-5.76	-7.55	-8.54	-12.57	-33.64
360	-20.23	-14.25	-8.62	-5.98	-4.30	-2.66	-2.08	-3.10	-5.60	-7.55	-8.75	-13.04	-33.57
Avg.	-22.85	-14.11	-9.02	-6.73	-5.18	-3.23	-2.28	-3.10	-5.53	-7.35	-7.95	-10.99	-19.71
Peak Value		-1.676		Minimum Value		-39.203							

Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.88	-19.43	-21.36	-28.04	-27.97	-19.86	-19.37	-21.96	-21.85	-21.05	-22.54	-23.28	-21.88
15	-17.43	-18.27	-20.20	-24.32	-26.33	-22.48	-22.75	-24.78	-21.56	-20.62	-23.36	-26.28	-24.63
30	-16.12	-16.88	-18.35	-19.89	-21.62	-22.52	-24.96	-23.04	-19.49	-19.53	-23.63	-30.11	-28.89
45	-14.75	-15.47	-16.45	-17.50	-18.37	-19.92	-21.60	-19.09	-17.33	-18.22	-22.90	-33.58	-39.55
60	-13.70	-14.20	-14.84	-15.38	-15.95	-17.21	-17.58	-16.04	-15.43	-17.11	-21.84	-30.93	-38.08
75	-12.91	-13.24	-13.67	-13.98	-14.36	-15.33	-14.98	-13.95	-13.86	-15.91	-20.47	-26.59	-27.46
90	-12.30	-12.52	-12.71	-12.99	-13.30	-14.00	-13.43	-12.47	-12.82	-15.12	-19.56	-23.75	-26.41
105	-12.08	-12.08	-12.21	-12.41	-12.98	-13.41	-12.60	-11.71	-12.16	-14.59	-18.76	-22.20	-24.78
120	-12.12	-11.93	-12.06	-12.43	-13.12	-13.50	-12.57	-11.56	-12.03	-14.47	-18.43	-21.54	-23.82
135	-12.26	-12.21	-12.29	-12.78	-13.89	-14.49	-13.15	-12.37	-12.42	-14.82	-18.68	-21.68	-24.26
150	-12.96	-12.73	-12.51	-13.56	-15.13	-16.10	-14.54	-13.12	-13.45	-15.59	-19.73	-23.00	-25.65
165	-13.81	-13.40	-13.50	-14.61	-17.02	-18.82	-16.84	-14.42	-15.13	-17.07	-21.64	-25.51	-29.44
180	-14.75	-14.20	-14.33	-15.98	-19.65	-23.82	-21.13	-18.85	-17.68	-19.55	-25.28	-31.86	-37.13
195	-15.87	-15.30	-15.40	-17.35	-22.64	-36.90	-29.15	-25.56	-22.00	-22.65	-30.66	-40.55	-32.55
210	-17.21	-16.42	-16.65	-19.17	-25.31	-28.33	-27.09	-41.24	-26.24	-23.96	-27.86	-27.83	-26.13
225	-18.56	-17.58	-17.85	-20.82	-25.64	-21.52	-20.26	-22.74	-22.82	-21.30	-22.20	-22.48	-21.95
240	-19.96	-18.83	-19.29	-23.40	-24.59	-18.16	-16.50	-17.57	-18.63	-18.29	-19.13	-19.66	-19.64
255	-20.99	-19.71	-20.38	-26.81	-23.41	-16.03	-14.19	-14.81	-15.95	-16.38	-17.22	-17.94	-17.86
270	-21.48	-20.40	-21.37	-30.80	-21.79	-14.74	-12.72	-13.23	-14.66	-15.39	-16.38	-17.03	-17.06
285	-21.82	-20.58	-21.64	-30.25	-21.07	-13.91	-12.08	-12.66	-14.23	-15.25	-16.25	-16.74	-16.73
300	-22.02	-20.81	-21.43	-27.70	-20.42	-13.80	-12.06	-12.82	-14.65	-15.81	-16.82	-17.12	-16.78
315	-22.07	-20.93	-21.51	-26.43	-20.69	-14.26	-12.67	-13.81	-15.92	-17.02	-17.82	-18.02	-17.30
330	-21.65	-20.76	-21.60	-26.61	-21.67	-15.40	-13.96	-15.61	-17.76	-18.56	-19.30	-19.25	-18.30
345	-20.51	-20.33	-21.95	-27.77	-24.40	-17.17	-15.95	-18.11	-20.09	-20.09	-21.00	-20.96	-19.70
360	-18.88	-19.43	-21.36	-28.04	-27.97	-19.86	-19.37	-21.96	-21.85	-21.05	-22.54	-23.28	-21.88
Avg.	-15.73	-15.62	-15.97	-17.18	-17.99	-16.67	-15.44	-15.29	-15.85	-17.32	-19.98	-21.57	-21.59
Peak Value	-11.564	Minimum Value -41.239											

RHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.61	-23.02	-13.84	-9.57	-6.81	-5.22	-5.08	-5.99	-8.10	-10.60	-13.09	-19.23	-24.42
15	-17.15	-22.78	-13.87	-9.35	-6.55	-4.97	-4.77	-5.58	-7.52	-10.02	-12.59	-18.48	-25.83
30	-15.89	-22.09	-14.08	-9.40	-6.40	-4.74	-4.46	-5.19	-6.98	-9.49	-12.15	-17.81	-28.49
45	-14.87	-21.46	-14.63	-9.60	-6.47	-4.65	-4.25	-4.82	-6.48	-8.97	-11.60	-16.85	-33.99
60	-14.17	-20.78	-15.41	-10.08	-6.59	-4.66	-4.11	-4.56	-6.13	-8.54	-11.01	-15.84	-47.51
75	-13.81	-20.50	-16.41	-10.84	-7.15	-4.96	-4.12	-4.43	-5.82	-8.04	-10.40	-14.72	-29.80
90	-13.84	-20.78	-18.01	-11.83	-7.92	-5.36	-4.30	-4.40	-5.67	-7.69	-9.83	-13.58	-25.64
105	-14.19	-21.70	-19.71	-13.13	-8.77	-5.86	-4.57	-4.53	-5.65	-7.42	-9.30	-12.68	-23.10
120	-15.00	-23.39	-21.19	-14.03	-9.58	-6.41	-4.95	-4.74	-5.71	-7.21	-8.76	-11.86	-19.88
135	-15.87	-26.81	-21.13	-14.35	-10.01	-6.84	-5.25	-5.14	-5.86	-7.10	-8.43	-11.29	-18.45
150	-17.37	-32.73	-20.16	-13.94	-9.96	-6.97	-5.43	-5.24	-6.08	-7.12	-8.25	-10.98	-17.69
165	-19.03	-36.32	-18.33	-13.23	-9.57	-6.76	-5.41	-5.30	-6.33	-7.25	-8.25	-10.91	-17.53
180	-20.80	-30.32	-17.01	-12.41	-9.00	-6.34	-5.25	-5.44	-6.55	-7.58	-8.51	-11.19	-17.98
195	-22.57	-26.25	-15.94	-11.76	-8.42	-5.92	-4.99	-5.40	-6.81	-8.02	-8.93	-11.65	-19.09
210	-24.56	-24.11	-15.26	-11.27	-8.02	-5.60	-4.81	-5.38	-7.07	-8.56	-9.60	-12.56	-20.73
225	-26.18	-23.15	-14.97	-11.04	-7.75	-5.37	-4.65	-5.37	-7.36	-9.41	-10.58	-13.80	-23.20
240	-27.77	-22.49	-14.72	-10.91	-7.67	-5.35	-4.72	-5.54	-7.75	-10.24	-11.70	-15.28	-26.07
255	-29.12	-22.39	-14.76	-10.89	-7.71	-5.38	-4.85	-5.77	-8.26	-11.27	-12.99	-17.04	-27.94
270	-29.74	-22.21	-14.67	-10.92	-7.78	-5.60	-5.14	-6.19	-8.90	-12.30	-14.15	-18.85	-27.32
285	-30.04	-22.19	-14.51	-10.91	-7.90	-5.79	-5.48	-6.62	-9.51	-13.10	-14.90	-20.26	-25.73
300	-28.38	-22.08	-14.45	-10.80	-7.97	-5.98	-5.75	-7.00	-9.89	-13.29	-15.02	-20.73	-24.32
315	-26.18	-22.25	-14.29	-10.62	-7.83	-5.99	-5.84	-7.10	-9.91	-12.95	-14.78	-20.64	-23.65
330	-23.43	-22.57	-14.08	-10.33	-7.60	-5.85	-5.75	-6.96	-9.52	-12.34	-14.20	-20.18	-23.35
345	-21.05	-23.00	-13.91	-9.98	-7.25	-5.62	-5.49	-6.57	-8.89	-11.36	-13.62	-19.73	-23.21
360	-18.61	-23.02	-13.84	-9.57	-6.81	-5.22	-5.08	-5.99	-8.10	-10.60	-13.09	-19.23	-24.42
Avg.	-18.18	-23.13	-15.72	-11.25	-8.00	-5.80	-5.12	-5.66	-7.33	-9.30	-10.96	-14.57	-22.41
Peak Value	-4.112	Minimum Value -47.514											

LHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-20.63	-13.57	-9.85	-8.43	-7.84	-5.99	-4.94	-6.12	-8.97	-10.16	-10.47	-13.72	-24.78
15	-20.57	-13.44	-9.71	-8.26	-7.78	-6.19	-5.24	-6.51	-9.56	-10.79	-11.05	-14.62	-28.66
30	-20.28	-13.17	-9.51	-8.02	-7.73	-6.49	-5.61	-6.92	-10.31	-11.58	-11.68	-15.62	-34.09
45	-19.41	-12.81	-9.27	-7.85	-7.69	-6.72	-5.91	-7.27	-11.01	-12.55	-12.38	-16.66	-43.21
60	-18.43	-12.27	-8.91	-7.57	-7.45	-6.72	-6.03	-7.50	-11.66	-13.62	-13.16	-17.54	-35.88
75	-17.38	-11.77	-8.60	-7.27	-7.23	-6.66	-5.99	-7.40	-11.90	-14.72	-13.88	-18.22	-29.89
90	-16.17	-11.19	-8.17	-6.95	-6.86	-6.36	-5.71	-7.00	-11.68	-15.53	-14.36	-18.53	-29.57
105	-15.45	-10.68	-7.87	-6.64	-6.53	-5.98	-5.34	-6.58	-11.16	-15.82	-14.57	-18.24	-28.27
120	-14.83	-10.26	-7.64	-6.48	-6.35	-5.63	-4.89	-6.08	-10.46	-15.25	-14.09	-17.16	-25.75
135	-14.41	-10.09	-7.50	-6.42	-6.26	-5.37	-4.54	-5.58	-9.86	-14.34	-13.37	-15.95	-23.55
150	-14.55	-10.06	-7.38	-6.50	-6.36	-5.26	-4.29	-5.39	-9.46	-13.42	-12.36	-14.51	-21.73
165	-14.92	-10.12	-7.57	-6.70	-6.62	-5.30	-4.21	-5.27	-9.18	-12.40	-11.38	-13.36	-19.68
180	-15.42	-10.31	-7.72	-7.00	-7.06	-5.51	-4.26	-5.25	-8.96	-11.40	-10.45	-12.16	-17.95
195	-16.24	-10.71	-8.01	-7.37	-7.64	-5.87	-4.39	-5.35	-8.72	-10.54	-9.61	-11.34	-16.81
210	-17.30	-11.18	-8.45	-7.91	-8.34	-6.27	-4.58	-5.44	-8.51	-9.81	-8.99	-10.67	-15.98
225	-18.54	-11.83	-8.93	-8.40	-8.94	-6.65	-4.76	-5.55	-8.25	-9.05	-8.42	-10.19	-15.27
240	-19.83	-12.54	-9.47	-8.99	-9.59	-6.94	-4.87	-5.55	-7.99	-8.53	-8.14	-9.97	-15.11
255	-20.60	-13.20	-9.95	-9.39	-9.93	-7.03	-4.90	-5.51	-7.70	-8.18	-7.96	-9.92	-14.95
270	-20.67	-13.73	-10.37	-9.77	-10.08	-6.92	-4.77	-5.40	-7.48	-8.06	-8.01	-10.08	-15.39
285	-20.49	-13.94	-10.53	-9.82	-9.70	-6.53	-4.60	-5.28	-7.37	-8.05	-8.18	-10.38	-15.91
300	-20.29	-14.03	-10.55	-9.71	-9.17	-6.16	-4.44	-5.19	-7.37	-8.22	-8.48	-10.82	-16.77
315	-20.21	-13.98	-10.45	-9.35	-8.60	-5.85	-4.36	-5.27	-7.57	-8.52	-8.87	-11.41	-17.90
330	-20.41	-13.84	-10.25	-9.02	-8.18	-5.71	-4.42	-5.44	-7.87	-8.96	-9.30	-12.02	-19.60
345	-20.55	-13.72	-10.08	-8.69	-7.94	-5.74	-4.61	-5.72	-8.35	-9.48	-9.81	-12.79	-21.95
360	-20.63	-13.57	-9.85	-8.43	-7.84	-5.99	-4.94	-6.12	-8.97	-10.16	-10.47	-13.72	-24.78
Avg.	-17.76	-12.12	-9.07	-8.06	-7.94	-6.31	-5.04	-6.06	-9.17	-10.69	-10.44	-12.87	-19.25
Peak Value		-4.212		Minimum Value		-43.211							

AR													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	18.76	6.09	12.92	23.69	24.62	27.12	42.04	42.60	25.94	31.87	16.47	10.26	33.66
15	14.23	6.17	12.57	24.06	22.99	23.12	31.26	25.46	18.63	27.02	21.03	13.20	15.83
30	12.13	6.51	11.79	22.02	22.34	19.97	23.53	20.05	14.45	18.45	31.50	18.03	10.13
45	11.83	6.73	10.47	19.96	23.09	18.53	20.45	17.06	11.89	13.85	26.96	39.42	6.27
60	12.39	6.86	8.93	16.86	26.17	18.57	19.17	15.51	10.23	10.91	18.17	20.21	4.66
75	13.87	6.67	7.50	13.87	46.10	20.23	19.40	15.44	9.47	8.71	14.08	14.02	45.80
90	17.51	5.99	5.80	11.27	24.29	24.74	21.89	16.55	9.55	7.47	11.86	11.14	13.06
105	22.84	5.02	4.55	8.95	17.86	43.05	27.16	18.63	10.26	6.96	10.61	10.19	10.78
120	40.41	3.89	3.70	7.76	14.71	26.92	48.66	22.28	11.47	7.28	10.52	10.57	9.74
135	21.50	2.55	3.67	7.39	13.46	21.44	27.80	31.92	12.91	8.09	11.14	11.64	10.88
150	15.86	1.28	4.06	7.87	13.79	20.18	23.70	40.83	14.31	9.18	12.68	13.95	12.82
165	12.69	0.85	5.18	8.90	15.47	21.49	23.25	57.46	15.76	10.81	14.99	17.09	18.19
180	10.46	1.74	6.21	10.41	19.10	26.44	24.94	39.05	17.21	13.30	19.07	25.06	53.53
195	9.14	2.93	7.39	12.13	26.97	52.01	29.12	50.78	19.23	16.80	28.17	34.88	17.69
210	8.06	3.99	8.56	14.39	34.67	28.38	37.59	48.99	21.63	22.87	29.00	19.30	11.49
225	7.67	4.84	9.52	16.44	23.25	22.64	44.19	39.44	25.84	33.80	18.17	13.77	7.38
240	7.37	5.73	10.64	19.16	19.18	20.75	41.41	75.57	37.33	20.18	13.89	10.55	5.05
255	6.85	6.29	11.37	21.30	17.91	20.49	50.39	36.57	29.90	15.09	11.01	8.22	3.96
270	6.38	6.88	12.30	23.63	17.63	22.36	33.64	26.85	21.79	12.42	9.39	6.64	4.50
285	6.01	7.09	12.94	24.05	19.74	27.35	25.87	22.22	18.23	10.96	8.67	5.77	5.82
300	7.23	7.27	13.11	24.06	23.24	39.70	22.47	19.67	16.83	10.94	8.88	5.75	7.76
315	9.60	7.07	13.25	22.78	27.16	41.76	21.42	19.55	17.45	12.05	9.68	6.26	9.91
330	15.30	6.67	13.26	22.49	29.60	41.76	22.33	21.19	20.50	14.33	11.23	7.17	13.45
345	30.71	6.22	13.28	22.56	28.08	43.16	25.93	26.20	30.11	19.33	13.31	8.41	22.81
360	18.76	6.09	12.92	23.69	24.62	27.12	42.04	42.60	25.94	31.87	16.47	10.26	33.66
Avg.	27.12	5.42	10.27	19.95	32.90	39.89	40.05	61.69	25.63	23.15	22.01	27.04	40.27
Peak Value		75.570		Minimum Value		0.852							

511.1 MHz

Horizontal + Vertical

φ [deg]	θ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.62	-13.33	-8.56	-6.09	-4.42	-2.72	-2.11	-3.16	-5.55	-7.40	-8.58	-12.69	-21.79
15	-15.73	-13.17	-8.49	-5.91	-4.27	-2.67	-2.14	-3.11	-5.46	-7.43	-8.77	-13.18	-24.37
30	-14.65	-12.94	-8.38	-5.80	-4.16	-2.68	-2.12	-3.06	-5.36	-7.45	-8.93	-13.49	-28.18
45	-13.71	-12.45	-8.36	-5.77	-4.17	-2.72	-2.15	-2.98	-5.25	-7.42	-9.01	-13.66	-35.26
60	-12.92	-11.90	-8.22	-5.80	-4.13	-2.71	-2.10	-2.88	-5.10	-7.37	-8.97	-13.55	-36.11
75	-12.26	-11.39	-8.12	-5.82	-4.33	-2.86	-2.09	-2.76	-4.96	-7.24	-8.85	-13.06	-28.49
90	-11.91	-10.91	-7.92	-5.87	-4.47	-2.98	-2.08	-2.63	-4.78	-7.07	-8.58	-12.37	-24.15
105	-11.77	-10.51	-7.74	-5.91	-4.68	-3.08	-2.07	-2.54	-4.63	-6.89	-8.20	-11.59	-21.78
120	-11.91	-10.18	-7.59	-5.93	-4.81	-3.16	-2.05	-2.47	-4.53	-6.62	-7.73	-10.77	-18.84
135	-12.15	-10.11	-7.44	-5.94	-4.92	-3.19	-2.01	-2.45	-4.48	-6.42	-7.26	-10.06	-17.40
150	-12.74	-10.17	-7.31	-5.94	-4.95	-3.18	-1.96	-2.41	-4.52	-6.29	-6.94	-9.48	-16.27
165	-13.51	-10.29	-7.41	-6.00	-5.03	-3.12	-1.89	-2.39	-4.58	-6.17	-6.65	-9.07	-15.66
180	-14.35	-10.44	-7.41	-6.10	-5.11	-3.08	-1.85	-2.43	-4.65	-6.15	-6.46	-8.78	-15.20
195	-15.47	-10.77	-7.57	-6.19	-5.22	-3.08	-1.81	-2.45	-4.71	-6.16	-6.37	-8.67	-15.01
210	-16.66	-11.18	-7.83	-6.44	-5.37	-3.07	-1.81	-2.48	-4.77	-6.21	-6.40	-8.67	-14.93
225	-18.04	-11.79	-8.07	-6.68	-5.51	-3.14	-1.83	-2.55	-4.83	-6.26	-6.47	-8.78	-14.92
240	-19.29	-12.38	-8.54	-7.04	-5.72	-3.23	-1.93	-2.61	-4.90	-6.35	-6.67	-9.02	-14.91
255	-20.08	-12.95	-8.91	-7.29	-5.87	-3.31	-1.99	-2.73	-5.01	-6.53	-6.88	-9.30	-14.99
270	-20.44	-13.35	-9.17	-7.47	-5.99	-3.36	-2.08	-2.86	-5.17	-6.75	-7.20	-9.72	-15.28
285	-20.19	-13.51	-9.26	-7.47	-5.89	-3.31	-2.12	-2.98	-5.33	-6.94	-7.49	-10.13	-15.68
300	-19.94	-13.59	-9.24	-7.35	-5.68	-3.21	-2.16	-3.09	-5.48	-7.13	-7.75	-10.55	-16.18
315	-19.35	-13.57	-9.12	-7.06	-5.37	-3.06	-2.14	-3.18	-5.63	-7.24	-7.97	-11.01	-17.11
330	-18.83	-13.50	-8.93	-6.74	-5.04	-2.93	-2.17	-3.21	-5.67	-7.37	-8.17	-11.55	-18.36
345	-17.84	-13.45	-8.74	-6.42	-4.73	-2.82	-2.15	-3.23	-5.62	-7.40	-8.37	-12.08	-19.63
360	-16.62	-13.33	-8.56	-6.09	-4.42	-2.72	-2.11	-3.16	-5.55	-7.40	-8.58	-12.69	-21.79
Avg.	-15.04	-11.98	-8.40	-6.52	-5.13	-3.20	-2.21	-2.94	-5.20	-6.99	-7.77	-10.73	-17.73
Peak Value		-1.811		Minimum Value		-36.112							

Horizontal

φ [deg]	θ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-20.66	-14.50	-8.79	-6.11	-4.44	-2.81	-2.19	-3.21	-5.65	-7.58	-8.73	-13.04	-33.45
15	-20.56	-14.72	-8.77	-5.97	-4.30	-2.72	-2.17	-3.15	-5.57	-7.63	-8.91	-13.36	-32.80
30	-20.13	-15.09	-8.83	-5.96	-4.23	-2.73	-2.15	-3.11	-5.53	-7.71	-9.07	-13.57	-33.79
45	-20.07	-15.32	-9.05	-6.06	-4.34	-2.80	-2.20	-3.10	-5.54	-7.80	-9.18	-13.71	-36.91
60	-20.38	-15.61	-9.22	-6.28	-4.42	-2.86	-2.22	-3.09	-5.53	-7.87	-9.20	-13.66	-42.93
75	-20.98	-15.82	-9.47	-6.51	-4.77	-3.11	-2.32	-3.10	-5.56	-7.89	-9.17	-13.29	-35.37
90	-22.18	-15.75	-9.59	-6.76	-5.07	-3.33	-2.40	-3.09	-5.52	-7.83	-8.96	-12.72	-28.20
105	-23.64	-15.48	-9.59	-6.96	-5.35	-3.50	-2.45	-3.08	-5.46	-7.69	-8.61	-12.00	-24.90
120	-25.39	-14.86	-9.44	-7.00	-5.47	-3.57	-2.44	-3.03	-5.36	-7.41	-8.13	-11.17	-20.60
135	-26.28	-14.20	-9.14	-6.90	-5.49	-3.52	-2.34	-2.90	-5.23	-7.12	-7.60	-10.38	-18.45
150	-25.92	-13.61	-8.85	-6.74	-5.37	-3.40	-2.19	-2.78	-5.11	-6.83	-7.19	-9.69	-16.84
165	-25.50	-13.10	-8.58	-6.62	-5.31	-3.24	-2.03	-2.65	-4.97	-6.53	-6.79	-9.17	-15.84
180	-25.08	-12.76	-8.39	-6.55	-5.25	-3.12	-1.90	-2.52	-4.86	-6.36	-6.52	-8.81	-15.23
195	-25.16	-12.64	-8.34	-6.53	-5.30	-3.08	-1.82	-2.46	-4.80	-6.27	-6.38	-8.67	-15.06
210	-25.80	-12.70	-8.43	-6.67	-5.41	-3.09	-1.83	-2.48	-4.80	-6.29	-6.43	-8.71	-15.25
225	-27.12	-13.10	-8.54	-6.85	-5.55	-3.20	-1.90	-2.59	-4.91	-6.40	-6.58	-8.95	-15.81
240	-27.98	-13.50	-8.91	-7.14	-5.78	-3.38	-2.09	-2.75	-5.09	-6.64	-6.91	-9.39	-16.69
255	-27.91	-13.99	-9.23	-7.34	-5.94	-3.55	-2.26	-3.00	-5.37	-6.99	-7.28	-9.92	-17.92
270	-27.07	-14.34	-9.44	-7.49	-6.09	-3.68	-2.47	-3.27	-5.69	-7.36	-7.74	-10.56	-19.74
285	-25.50	-14.49	-9.52	-7.50	-6.02	-3.70	-2.58	-3.46	-5.93	-7.60	-8.07	-11.12	-21.78
300	-24.04	-14.52	-9.50	-7.40	-5.83	-3.60	-2.62	-3.56	-6.02	-7.72	-8.27	-11.56	-24.28
315	-23.05	-14.55	-9.38	-7.12	-5.49	-3.39	-2.54	-3.55	-6.04	-7.69	-8.40	-11.93	-27.11
330	-22.27	-14.44	-9.17	-6.79	-5.13	-3.18	-2.46	-3.46	-5.93	-7.68	-8.48	-12.30	-30.15
345	-21.44	-14.43	-8.95	-6.46	-4.77	-2.97	-2.33	-3.36	-5.77	-7.61	-8.60	-12.62	-32.59
360	-20.66	-14.50	-8.79	-6.11	-4.44	-2.81	-2.19	-3.21	-5.65	-7.58	-8.73	-13.04	-33.45
Avg.	-23.34	-14.39	-9.21	-6.89	-5.35	-3.40	-2.42	-3.20	-5.59	-7.41	-8.04	-11.09	-19.90
Peak Value		-1.817		Minimum Value		-42.929							

Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.80	-19.60	-21.46	-28.49	-28.24	-19.93	-19.42	-22.03	-22.15	-21.18	-23.10	-23.86	-22.09
15	-17.47	-18.38	-20.44	-24.53	-26.34	-22.30	-23.00	-24.66	-21.53	-20.87	-23.82	-27.10	-25.04
30	-16.09	-17.02	-18.49	-20.15	-21.91	-22.48	-24.64	-22.76	-19.35	-19.69	-23.89	-30.87	-29.57
45	-14.86	-15.60	-16.71	-17.62	-18.46	-19.74	-21.28	-18.89	-17.20	-18.20	-23.06	-33.77	-40.24
60	-13.79	-14.31	-15.07	-15.56	-16.08	-17.31	-17.67	-16.10	-15.36	-16.98	-21.77	-29.96	-37.12
75	-12.89	-13.33	-13.85	-14.14	-14.50	-15.36	-15.05	-13.96	-13.89	-15.83	-20.37	-26.00	-29.48
90	-12.34	-12.63	-12.86	-13.17	-13.40	-14.05	-13.52	-12.58	-12.80	-15.05	-19.34	-23.56	-26.31
105	-12.06	-12.18	-12.34	-12.56	-13.11	-13.48	-12.76	-11.81	-12.23	-14.61	-18.64	-22.00	-24.69
120	-12.11	-11.99	-12.20	-12.57	-13.31	-13.65	-12.67	-11.67	-12.09	-14.45	-18.23	-21.36	-23.62
135	-12.32	-12.26	-12.35	-12.97	-14.06	-14.65	-13.35	-12.50	-12.46	-14.72	-18.43	-21.53	-24.07
150	-12.95	-12.78	-12.58	-13.69	-15.30	-16.24	-14.78	-13.30	-13.52	-15.59	-19.54	-22.72	-25.35
165	-13.80	-13.50	-13.65	-14.75	-17.12	-19.09	-17.05	-14.65	-15.19	-17.12	-21.49	-25.45	-29.47
180	-14.73	-14.27	-14.38	-16.11	-19.90	-23.99	-21.61	-19.20	-17.84	-19.49	-24.89	-31.17	-36.67
195	-15.96	-15.32	-15.48	-17.48	-22.82	-38.14	-29.96	-26.49	-22.03	-22.42	-30.10	-41.46	-33.76
210	-17.23	-16.47	-16.70	-19.27	-25.32	-27.72	-26.64	-37.88	-26.20	-23.83	-27.73	-28.26	-26.50
225	-18.61	-17.64	-18.00	-20.93	-26.06	-21.52	-20.01	-22.47	-22.49	-21.21	-22.42	-22.92	-22.27
240	-19.92	-18.82	-19.39	-23.64	-25.00	-18.11	-16.37	-17.56	-18.50	-18.34	-19.32	-19.87	-19.66
255	-20.86	-19.69	-20.48	-26.62	-23.90	-15.98	-14.11	-14.81	-15.94	-16.44	-17.46	-18.05	-18.08
270	-21.51	-20.26	-21.41	-30.61	-22.37	-14.77	-12.75	-13.35	-14.65	-15.54	-16.54	-17.27	-17.21
285	-21.71	-20.46	-21.58	-28.85	-21.13	-13.98	-12.09	-12.74	-14.24	-15.44	-16.51	-17.00	-16.91
300	-22.08	-20.71	-21.47	-26.75	-20.63	-13.88	-12.09	-12.95	-14.80	-16.06	-17.18	-17.40	-16.91
315	-21.77	-20.52	-21.39	-25.59	-20.75	-14.36	-12.74	-13.97	-16.10	-17.28	-18.22	-18.17	-17.57
330	-21.45	-20.57	-21.49	-26.15	-21.85	-15.43	-14.12	-15.77	-18.02	-18.91	-19.78	-19.53	-18.66
345	-20.34	-20.37	-22.02	-27.51	-24.66	-17.30	-16.15	-18.36	-20.31	-20.57	-21.33	-21.42	-19.85
360	-18.80	-19.60	-21.46	-28.49	-28.24	-19.93	-19.42	-22.03	-22.15	-21.18	-23.10	-23.86	-22.09
Avg.	-15.73	-15.68	-16.09	-17.32	-18.15	-16.74	-15.52	-15.40	-15.89	-17.37	-20.09	-21.73	-21.77
Peak Value	-11.665	Minimum Value -41.460											

RHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.76	-23.60	-14.06	-9.71	-6.96	-5.36	-5.19	-6.10	-8.14	-10.60	-12.98	-19.00	-25.07
15	-17.33	-23.48	-14.11	-9.55	-6.71	-5.07	-4.88	-5.65	-7.55	-10.03	-12.55	-18.29	-26.62
30	-15.99	-23.01	-14.41	-9.58	-6.56	-4.89	-4.56	-5.26	-6.99	-9.51	-12.11	-17.57	-29.52
45	-14.98	-22.09	-14.95	-9.76	-6.62	-4.80	-4.37	-4.90	-6.53	-8.97	-11.58	-16.70	-35.91
60	-14.29	-21.52	-15.74	-10.26	-6.77	-4.81	-4.23	-4.66	-6.15	-8.52	-11.01	-15.70	-44.54
75	-13.90	-21.00	-16.78	-11.00	-7.34	-5.11	-4.26	-4.52	-5.90	-8.07	-10.43	-14.57	-30.63
90	-13.89	-21.17	-18.40	-12.07	-8.09	-5.53	-4.43	-4.51	-5.73	-7.71	-9.84	-13.55	-25.34
105	-14.24	-21.92	-20.15	-13.39	-8.97	-6.05	-4.72	-4.64	-5.70	-7.47	-9.31	-12.63	-22.75
120	-14.92	-23.72	-21.61	-14.34	-9.75	-6.60	-5.07	-4.84	-5.76	-7.24	-8.80	-11.86	-19.71
135	-15.82	-27.13	-21.58	-14.61	-10.24	-7.01	-5.39	-5.22	-5.90	-7.14	-8.42	-11.30	-18.44
150	-17.23	-33.23	-20.69	-14.25	-10.17	-7.13	-5.56	-5.34	-6.16	-7.19	-8.32	-11.00	-17.59
165	-18.82	-38.95	-18.61	-13.49	-9.82	-6.90	-5.56	-5.39	-6.38	-7.32	-8.34	-11.00	-17.62
180	-20.56	-31.63	-17.39	-12.66	-9.20	-6.49	-5.34	-5.49	-6.61	-7.64	-8.56	-11.25	-18.08
195	-22.42	-27.16	-16.33	-11.98	-8.69	-6.08	-5.13	-5.48	-6.87	-8.06	-9.01	-11.81	-19.14
210	-24.15	-24.78	-15.61	-11.54	-8.25	-5.71	-4.89	-5.44	-7.12	-8.64	-9.74	-12.69	-20.84
225	-25.54	-23.85	-15.09	-11.30	-7.99	-5.54	-4.77	-5.45	-7.40	-9.42	-10.67	-13.88	-23.48
240	-26.96	-23.15	-15.00	-11.19	-7.90	-5.51	-4.84	-5.58	-7.79	-10.31	-11.78	-15.45	-26.59
255	-28.27	-22.93	-15.00	-11.22	-7.94	-5.55	-4.97	-5.84	-8.30	-11.36	-13.02	-17.23	-28.41
270	-28.79	-22.70	-14.84	-11.13	-8.07	-5.74	-5.27	-6.25	-8.94	-12.38	-14.30	-18.94	-27.70
285	-29.07	-22.54	-14.71	-11.14	-8.14	-5.95	-5.58	-6.68	-9.54	-13.13	-14.99	-20.29	-26.13
300	-28.33	-22.46	-14.58	-11.01	-8.14	-6.12	-5.85	-7.06	-9.91	-13.30	-15.02	-20.65	-24.60
315	-25.81	-23.00	-14.47	-10.80	-8.02	-6.14	-5.96	-7.16	-9.93	-12.93	-14.68	-20.60	-24.09
330	-23.53	-23.21	-14.31	-10.49	-7.77	-6.01	-5.90	-6.99	-9.52	-12.29	-14.11	-20.16	-24.00
345	-21.09	-23.51	-14.09	-10.13	-7.41	-5.72	-5.60	-6.64	-8.88	-11.40	-13.60	-19.50	-23.57
360	-18.76	-23.60	-14.06	-9.71	-6.96	-5.36	-5.19	-6.10	-8.14	-10.60	-12.98	-19.00	-25.07
Avg.	-18.19	-23.69	-15.98	-11.46	-8.20	-5.95	-5.24	-5.74	-7.37	-9.34	-11.00	-14.59	-22.53
Peak Value	-4.229	Minimum Value -44.542											

LHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-20.71	-13.76	-10.00	-8.56	-7.96	-6.15	-5.06	-6.23	-9.03	-10.22	-10.54	-13.85	-24.54
15	-20.84	-13.59	-9.87	-8.38	-7.95	-6.39	-5.42	-6.66	-9.64	-10.90	-11.13	-14.78	-28.30
30	-20.41	-13.39	-9.63	-8.16	-7.89	-6.68	-5.79	-7.07	-10.40	-11.67	-11.77	-15.64	-33.94
45	-19.70	-12.95	-9.43	-7.98	-7.82	-6.92	-6.12	-7.46	-11.18	-12.65	-12.50	-16.65	-43.79
60	-18.61	-12.40	-9.06	-7.72	-7.55	-6.86	-6.21	-7.61	-11.77	-13.70	-13.23	-17.65	-36.78
75	-17.29	-11.90	-8.76	-7.39	-7.35	-6.78	-6.15	-7.52	-12.06	-14.87	-14.01	-18.38	-32.59
90	-16.28	-11.34	-8.32	-7.06	-6.95	-6.51	-5.87	-7.18	-11.86	-15.71	-14.56	-18.63	-30.33
105	-15.40	-10.84	-7.99	-6.76	-6.70	-6.13	-5.47	-6.70	-11.26	-15.90	-14.69	-18.31	-28.78
120	-14.93	-10.38	-7.77	-6.61	-6.48	-5.79	-5.05	-6.24	-10.58	-15.40	-14.34	-17.33	-26.27
135	-14.58	-10.20	-7.61	-6.58	-6.43	-5.53	-4.68	-5.71	-10.02	-14.58	-13.55	-16.10	-24.12
150	-14.65	-10.19	-7.52	-6.64	-6.50	-5.41	-4.44	-5.50	-9.57	-13.57	-12.59	-14.77	-22.09
165	-15.03	-10.29	-7.75	-6.85	-6.79	-5.48	-4.34	-5.40	-9.27	-12.49	-11.56	-13.52	-20.04
180	-15.53	-10.47	-7.87	-7.18	-7.25	-5.72	-4.43	-5.39	-9.04	-11.53	-10.62	-12.41	-18.34
195	-16.45	-10.87	-8.19	-7.52	-7.83	-6.10	-4.54	-5.44	-8.79	-10.67	-9.78	-11.55	-17.12
210	-17.52	-11.37	-8.62	-8.05	-8.50	-6.49	-4.76	-5.55	-8.56	-9.90	-9.10	-10.86	-16.22
225	-18.89	-12.07	-9.04	-8.52	-9.13	-6.86	-4.92	-5.67	-8.33	-9.12	-8.55	-10.39	-15.57
240	-20.10	-12.76	-9.65	-9.15	-9.77	-7.13	-5.05	-5.66	-8.04	-8.59	-8.28	-10.14	-15.22
255	-20.79	-13.41	-10.14	-9.55	-10.08	-7.24	-5.03	-5.63	-7.76	-8.25	-8.09	-10.06	-15.19
270	-21.13	-13.89	-10.54	-9.91	-10.18	-7.10	-4.91	-5.53	-7.54	-8.14	-8.14	-10.27	-15.54
285	-20.79	-14.09	-10.72	-9.90	-9.82	-6.72	-4.73	-5.39	-7.40	-8.14	-8.34	-10.57	-16.09
300	-20.62	-14.19	-10.74	-9.80	-9.33	-6.32	-4.58	-5.32	-7.43	-8.33	-8.65	-11.00	-16.85
315	-20.46	-14.10	-10.62	-9.45	-8.76	-6.01	-4.47	-5.39	-7.65	-8.60	-9.01	-11.51	-18.08
330	-20.62	-13.99	-10.41	-9.12	-8.35	-5.86	-4.56	-5.57	-7.97	-9.06	-9.45	-12.19	-19.74
345	-20.63	-13.90	-10.24	-8.83	-8.09	-5.94	-4.77	-5.87	-8.40	-9.60	-9.92	-12.95	-21.87
360	-20.71	-13.76	-10.00	-8.56	-7.96	-6.15	-5.06	-6.23	-9.03	-10.22	-10.54	-13.85	-24.54
Avg.	-17.91	-12.28	-9.23	-8.19	-8.09	-6.48	-5.20	-6.18	-9.25	-10.79	-10.58	-13.03	-19.47
Peak Value	-4.337	Minimum Value -43.787											

AR													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	19.02	5.80	12.78	23.56	24.79	26.85	42.91	42.61	25.84	33.19	17.11	10.82	30.36
15	14.03	5.77	12.42	23.42	22.96	22.45	30.15	24.73	18.42	26.06	21.78	13.99	20.35
30	12.06	5.97	11.42	21.78	22.34	19.75	23.04	19.66	14.24	18.13	34.33	19.11	12.07
45	11.53	6.33	10.24	19.82	23.24	18.31	19.97	16.67	11.66	13.61	25.56	49.99	7.44
60	12.28	6.35	8.72	16.76	26.91	18.62	18.90	15.48	10.10	10.77	17.91	19.02	7.55
75	14.30	6.36	7.30	13.78	62.04	20.36	19.33	15.34	9.37	8.58	13.83	13.33	18.96
90	17.31	5.81	5.64	11.04	23.67	24.93	21.62	16.35	9.40	7.33	11.53	10.93	11.07
105	23.54	4.98	4.38	8.77	17.71	46.77	27.26	18.57	10.18	6.92	10.45	10.00	9.53
120	62.97	3.80	3.58	7.58	14.60	26.62	57.52	21.92	11.36	7.17	10.20	10.31	8.86
135	22.92	2.49	3.53	7.28	13.33	21.40	27.72	30.97	12.67	7.88	10.84	11.40	10.00
150	16.63	1.23	3.88	7.70	13.64	20.12	23.84	40.68	14.25	9.08	12.36	13.41	11.94
165	13.37	0.64	5.12	8.76	15.26	21.80	23.09	62.33	15.66	10.77	14.74	16.84	17.19
180	11.01	1.52	6.03	10.31	19.02	27.09	25.56	44.28	17.16	13.14	18.56	23.56	36.64
195	9.60	2.68	7.19	12.01	26.13	56.25	29.38	51.77	19.18	16.54	27.06	36.58	18.71
210	8.77	3.77	8.35	14.05	37.01	26.94	42.28	44.13	21.67	22.76	28.67	19.57	11.71
225	8.75	4.58	9.50	16.00	23.68	22.39	41.27	37.93	25.47	35.30	18.34	14.04	7.41
240	8.51	5.42	10.49	18.65	19.40	20.63	38.37	46.44	36.84	20.11	14.03	10.57	4.81
255	7.84	6.04	11.29	20.34	18.24	20.27	49.04	38.33	30.05	15.03	11.18	8.16	3.86
270	7.66	6.60	12.32	23.13	18.34	22.20	33.72	27.60	21.87	12.41	9.36	6.72	4.37
285	7.06	6.91	12.93	23.00	20.31	27.09	26.24	22.64	18.26	11.07	8.75	5.89	5.66
300	7.60	7.07	13.24	23.13	23.36	38.79	22.77	20.00	16.95	11.09	9.09	5.94	7.56
315	10.50	6.52	13.23	22.23	27.38	42.60	21.37	19.85	17.72	12.25	10.02	6.37	9.56
330	15.60	6.27	13.13	22.05	29.47	41.27	22.29	21.76	21.01	14.70	11.64	7.35	12.38
345	31.63	5.97	13.23	22.54	28.12	38.03	26.34	27.10	31.08	19.72	13.61	8.86	20.19
360	19.02	5.80	12.78	23.56	24.79	26.85	42.91	42.61	25.84	33.19	17.11	10.82	30.36
Avg.	49.00	5.13	10.18	19.45	48.08	43.17	44.53	49.04	25.49	24.22	22.96	36.23	23.99
Peak Value	62.974	Minimum Value 0.641											

512.4 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.83	-13.53	-8.73	-6.24	-4.58	-2.86	-2.25	-3.25	-5.60	-7.44	-8.66	-12.67	-22.07
15	-15.82	-13.34	-8.64	-6.04	-4.41	-2.80	-2.25	-3.22	-5.49	-7.45	-8.80	-13.10	-24.90
30	-14.81	-13.13	-8.56	-6.01	-4.31	-2.81	-2.27	-3.15	-5.39	-7.46	-8.97	-13.50	-28.75
45	-13.71	-12.67	-8.48	-5.91	-4.31	-2.86	-2.27	-3.06	-5.32	-7.45	-9.04	-13.62	-37.73
60	-12.95	-12.17	-8.41	-5.86	-4.28	-2.85	-2.22	-2.99	-5.18	-7.42	-9.00	-13.48	-36.04
75	-12.34	-11.55	-8.26	-5.97	-4.48	-2.98	-2.23	-2.86	-5.01	-7.29	-8.88	-13.06	-28.19
90	-11.96	-11.01	-8.09	-6.03	-4.64	-3.09	-2.22	-2.74	-4.85	-7.12	-8.61	-12.39	-24.03
105	-11.84	-10.62	-7.91	-6.04	-4.78	-3.20	-2.19	-2.64	-4.71	-6.93	-8.23	-11.66	-21.68
120	-12.00	-10.34	-7.76	-6.07	-4.96	-3.31	-2.17	-2.57	-4.63	-6.67	-7.79	-10.84	-18.98
135	-12.16	-10.23	-7.57	-6.10	-5.08	-3.35	-2.13	-2.56	-4.58	-6.47	-7.32	-10.14	-17.42
150	-12.83	-10.12	-7.45	-6.09	-5.13	-3.33	-2.08	-2.52	-4.60	-6.32	-6.97	-9.61	-16.46
165	-13.58	-10.41	-7.55	-6.16	-5.21	-3.28	-2.02	-2.48	-4.63	-6.22	-6.70	-9.16	-15.84
180	-14.36	-10.57	-7.58	-6.23	-5.29	-3.26	-1.97	-2.52	-4.70	-6.21	-6.53	-8.90	-15.36
195	-15.44	-10.88	-7.72	-6.39	-5.40	-3.24	-1.94	-2.54	-4.76	-6.23	-6.45	-8.78	-15.24
210	-16.77	-11.37	-8.00	-6.63	-5.56	-3.26	-1.94	-2.56	-4.81	-6.27	-6.51	-8.82	-15.18
225	-18.16	-11.96	-8.24	-6.88	-5.71	-3.30	-1.93	-2.60	-4.86	-6.35	-6.58	-8.93	-15.13
240	-19.28	-12.58	-8.74	-7.19	-5.92	-3.40	-1.96	-2.69	-4.93	-6.44	-6.78	-9.18	-15.21
255	-20.25	-13.17	-9.08	-7.44	-6.04	-3.48	-2.11	-2.80	-5.03	-6.56	-7.02	-9.47	-15.26
270	-20.59	-13.53	-9.36	-7.60	-6.16	-3.49	-2.18	-2.91	-5.19	-6.80	-7.31	-9.89	-15.55
285	-20.25	-13.78	-9.44	-7.63	-6.07	-3.45	-2.23	-3.04	-5.34	-7.00	-7.58	-10.26	-15.89
300	-19.98	-13.79	-9.39	-7.48	-5.84	-3.35	-2.25	-3.16	-5.54	-7.16	-7.83	-10.69	-16.48
315	-19.50	-13.74	-9.27	-7.18	-5.51	-3.19	-2.27	-3.25	-5.65	-7.33	-8.04	-11.11	-17.33
330	-19.06	-13.64	-9.09	-6.85	-5.17	-3.08	-2.27	-3.31	-5.72	-7.41	-8.26	-11.63	-18.48
345	-18.03	-13.63	-8.90	-6.52	-4.87	-2.95	-2.28	-3.32	-5.67	-7.40	-8.43	-12.17	-19.98
360	-16.83	-13.53	-8.73	-6.24	-4.58	-2.86	-2.25	-3.25	-5.60	-7.44	-8.66	-12.67	-22.07
Avg.	-15.11	-12.13	-8.56	-6.66	-5.29	-3.34	-2.33	-3.03	-5.25	-7.04	-7.85	-10.83	-17.94
Peak Value		-1.935		Minimum Value		-37.731							

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-21.18	-14.79	-8.96	-6.26	-4.59	-2.94	-2.34	-3.31	-5.69	-7.62	-8.80	-12.99	-32.82
15	-20.85	-14.98	-8.93	-6.10	-4.43	-2.85	-2.29	-3.25	-5.61	-7.64	-8.92	-13.26	-33.92
30	-20.47	-15.33	-8.98	-6.10	-4.38	-2.86	-2.30	-3.21	-5.57	-7.73	-9.11	-13.57	-34.52
45	-20.26	-15.68	-9.16	-6.20	-4.48	-2.94	-2.32	-3.17	-5.62	-7.83	-9.21	-13.66	-39.01
60	-20.69	-15.98	-9.40	-6.30	-4.57	-3.01	-2.35	-3.21	-5.62	-7.94	-9.24	-13.59	-50.69
75	-21.34	-16.05	-9.59	-6.66	-4.93	-3.24	-2.45	-3.20	-5.62	-7.95	-9.21	-13.30	-35.60
90	-22.45	-15.96	-9.76	-6.92	-5.22	-3.44	-2.54	-3.21	-5.60	-7.90	-9.00	-12.76	-28.06
105	-24.03	-15.65	-9.76	-7.07	-5.46	-3.62	-2.58	-3.18	-5.54	-7.75	-8.67	-12.09	-25.00
120	-25.74	-15.11	-9.60	-7.12	-5.62	-3.70	-2.56	-3.12	-5.47	-7.47	-8.20	-11.24	-20.72
135	-26.56	-14.37	-9.28	-7.05	-5.63	-3.67	-2.46	-3.01	-5.33	-7.18	-7.68	-10.47	-18.48
150	-26.55	-13.81	-8.99	-6.89	-5.55	-3.54	-2.30	-2.88	-5.18	-6.88	-7.22	-9.82	-17.04
165	-26.09	-13.30	-8.74	-6.78	-5.48	-3.38	-2.14	-2.74	-5.02	-6.60	-6.85	-9.27	-16.06
180	-25.71	-12.95	-8.57	-6.69	-5.45	-3.29	-2.01	-2.61	-4.91	-6.42	-6.59	-8.93	-15.39
195	-25.87	-12.82	-8.48	-6.73	-5.47	-3.24	-1.95	-2.56	-4.84	-6.34	-6.47	-8.78	-15.29
210	-26.76	-12.95	-8.62	-6.87	-5.61	-3.27	-1.96	-2.56	-4.84	-6.35	-6.54	-8.87	-15.51
225	-28.05	-13.37	-8.72	-7.04	-5.75	-3.37	-2.01	-2.65	-4.94	-6.49	-6.70	-9.10	-16.00
240	-28.82	-13.75	-9.12	-7.28	-5.97	-3.54	-2.13	-2.84	-5.13	-6.73	-7.03	-9.54	-17.00
255	-28.92	-14.26	-9.40	-7.49	-6.11	-3.73	-2.39	-3.09	-5.40	-7.03	-7.42	-10.08	-18.25
270	-27.78	-14.61	-9.65	-7.63	-6.26	-3.83	-2.59	-3.33	-5.70	-7.40	-7.83	-10.71	-20.01
285	-26.02	-14.88	-9.72	-7.66	-6.20	-3.85	-2.70	-3.53	-5.92	-7.64	-8.14	-11.22	-21.99
300	-24.57	-14.83	-9.68	-7.54	-5.99	-3.75	-2.72	-3.62	-6.06	-7.72	-8.34	-11.66	-24.57
315	-23.54	-14.76	-9.55	-7.24	-5.64	-3.52	-2.66	-3.62	-6.03	-7.75	-8.45	-11.97	-27.12
330	-22.84	-14.64	-9.35	-6.91	-5.26	-3.33	-2.55	-3.55	-5.96	-7.70	-8.55	-12.30	-30.03
345	-22.01	-14.68	-9.12	-6.56	-4.91	-3.10	-2.45	-3.44	-5.80	-7.60	-8.62	-12.67	-31.84
360	-21.18	-14.79	-8.96	-6.26	-4.59	-2.94	-2.34	-3.31	-5.69	-7.62	-8.80	-12.99	-32.82
Avg.	-23.79	-14.63	-9.37	-7.03	-5.51	-3.54	-2.54	-3.29	-5.64	-7.46	-8.11	-11.18	-20.11
Peak Value		-1.945		Minimum Value		-50.693							



Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.82	-19.49	-21.70	-28.82	-28.24	-20.12	-19.51	-22.26	-22.19	-21.44	-23.49	-24.25	-22.45
15	-17.45	-18.38	-20.57	-24.84	-26.68	-22.26	-22.91	-24.34	-21.33	-21.06	-24.30	-27.58	-25.48
30	-16.18	-17.12	-18.85	-22.67	-21.85	-22.19	-24.53	-22.15	-19.17	-19.76	-24.16	-31.45	-30.08
45	-14.79	-15.67	-16.91	-17.90	-18.44	-19.82	-21.42	-18.84	-17.15	-18.21	-23.12	-33.85	-43.67
60	-13.75	-14.50	-15.30	-15.95	-16.20	-17.28	-17.61	-16.03	-15.29	-16.94	-21.64	-29.64	-36.19
75	-12.92	-13.44	-14.05	-14.34	-14.64	-15.38	-15.20	-14.03	-13.88	-15.78	-20.35	-25.71	-29.07
90	-12.37	-12.68	-13.04	-13.34	-13.64	-14.21	-13.66	-12.64	-12.83	-14.96	-19.28	-23.34	-26.21
105	-12.11	-12.26	-12.50	-12.80	-13.21	-13.65	-12.86	-11.96	-12.29	-14.53	-18.41	-21.91	-24.40
120	-12.18	-12.10	-12.37	-12.75	-13.44	-13.91	-12.91	-11.82	-12.20	-14.42	-18.23	-21.34	-23.78
135	-12.32	-12.34	-12.45	-13.16	-14.29	-14.82	-13.56	-12.65	-12.60	-14.64	-18.30	-21.51	-24.05
150	-13.02	-12.54	-12.68	-13.80	-15.46	-16.48	-15.03	-13.62	-13.62	-15.50	-19.43	-22.89	-25.50
165	-13.83	-13.55	-13.74	-14.90	-17.51	-19.39	-17.49	-14.87	-15.34	-17.05	-21.40	-25.11	-29.06
180	-14.69	-14.31	-14.49	-16.22	-19.73	-24.77	-22.01	-19.50	-18.05	-19.43	-24.87	-31.02	-37.24
195	-15.86	-15.31	-15.63	-17.62	-23.01	-38.74	-31.00	-26.74	-22.15	-22.42	-29.77	-42.08	-35.00
210	-17.23	-16.54	-16.80	-19.42	-25.51	-27.56	-26.05	-35.02	-25.78	-23.84	-28.03	-28.48	-26.54
225	-18.63	-17.54	-17.99	-21.21	-26.34	-21.46	-19.76	-22.05	-22.38	-21.22	-22.52	-23.18	-22.52
240	-19.80	-18.85	-19.47	-23.94	-25.30	-18.16	-16.35	-17.46	-18.47	-18.41	-19.36	-20.21	-19.93
255	-20.88	-19.69	-20.66	-27.12	-24.16	-16.04	-14.09	-14.78	-15.94	-16.50	-17.64	-18.30	-18.28
270	-21.51	-20.12	-21.28	-29.90	-22.73	-14.77	-12.67	-13.32	-14.75	-15.71	-16.78	-17.51	-17.48
285	-21.59	-20.32	-21.43	-28.42	-21.29	-14.01	-12.12	-12.80	-14.38	-15.63	-16.74	-17.27	-17.11
300	-21.83	-20.50	-21.28	-26.01	-20.59	-14.00	-12.12	-13.14	-15.01	-16.28	-17.41	-17.66	-17.21
315	-21.68	-20.52	-21.27	-25.38	-20.77	-14.45	-12.88	-14.18	-16.34	-17.67	-18.48	-18.56	-17.81
330	-21.41	-20.51	-21.40	-25.79	-22.06	-15.60	-14.32	-16.06	-18.43	-19.31	-20.23	-20.04	-18.80
345	-20.25	-20.32	-21.95	-27.27	-24.93	-17.52	-16.30	-18.71	-20.75	-20.83	-21.96	-21.85	-20.27
360	-18.82	-19.49	-21.70	-28.82	-28.24	-20.12	-19.51	-22.26	-22.19	-21.44	-23.49	-24.25	-22.45
Avg.	-15.74	-15.71	-16.22	-17.53	-18.30	-16.86	-15.62	-15.51	-15.98	-17.41	-20.21	-21.95	-21.99
Peak Value	-11.819	Minimum Value -43.667											

RHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.92	-24.56	-14.23	-9.89	-7.11	-5.47	-5.28	-6.16	-8.16	-10.62	-13.02	-18.77	-25.74
15	-17.43	-24.52	-14.34	-9.68	-6.86	-5.16	-4.97	-5.70	-7.52	-10.01	-12.47	-18.07	-27.61
30	-16.16	-23.97	-14.59	-9.70	-6.72	-4.98	-4.68	-5.29	-6.98	-9.50	-12.10	-17.47	-30.68
45	-14.99	-22.98	-15.13	-9.95	-6.77	-4.93	-4.49	-4.95	-6.59	-8.98	-11.56	-16.58	-39.58
60	-14.34	-22.13	-15.98	-10.30	-6.93	-4.95	-4.33	-4.74	-6.21	-8.55	-10.96	-15.56	-39.71
75	-13.98	-21.44	-17.17	-11.25	-7.50	-5.22	-4.39	-4.60	-5.94	-8.09	-10.42	-14.54	-29.80
90	-13.91	-21.54	-18.90	-12.33	-8.29	-5.64	-4.57	-4.60	-5.78	-7.74	-9.85	-13.53	-24.88
105	-14.28	-22.20	-20.68	-13.56	-9.13	-6.19	-4.84	-4.73	-5.77	-7.49	-9.29	-12.67	-22.46
120	-15.02	-23.97	-22.10	-14.56	-9.98	-6.73	-5.20	-4.94	-5.85	-7.28	-8.85	-11.90	-19.73
135	-15.79	-27.35	-22.02	-14.82	-10.42	-7.17	-5.52	-5.31	-6.00	-7.16	-8.45	-11.36	-18.34
150	-17.22	-31.05	-21.00	-14.50	-10.40	-7.26	-5.68	-5.43	-6.22	-7.20	-8.33	-11.13	-17.72
165	-18.74	-43.86	-18.89	-13.72	-9.99	-7.02	-5.65	-5.46	-6.42	-7.35	-8.37	-11.03	-17.64
180	-20.30	-32.75	-17.67	-12.89	-9.43	-6.64	-5.47	-5.57	-6.67	-7.68	-8.62	-11.34	-18.13
195	-21.96	-27.89	-16.49	-12.26	-8.88	-6.21	-5.23	-5.54	-6.90	-8.13	-9.06	-11.85	-19.25
210	-23.61	-25.32	-15.89	-11.79	-8.47	-5.88	-5.01	-5.48	-7.13	-8.68	-9.83	-12.83	-21.20
225	-25.10	-24.62	-15.39	-11.54	-8.20	-5.67	-4.85	-5.48	-7.41	-9.51	-10.77	-14.00	-23.68
240	-26.27	-23.56	-15.28	-11.37	-8.10	-5.65	-4.83	-5.63	-7.79	-10.36	-11.94	-15.52	-27.08
255	-27.49	-23.33	-15.15	-11.37	-8.12	-5.69	-5.07	-5.88	-8.31	-11.36	-13.19	-17.33	-29.18
270	-28.34	-23.14	-15.13	-11.33	-8.27	-5.88	-5.35	-6.29	-8.91	-12.37	-14.34	-19.03	-28.51
285	-28.17	-23.13	-14.94	-11.27	-8.32	-6.08	-5.67	-6.72	-9.49	-13.10	-14.98	-20.18	-26.48
300	-27.94	-23.03	-14.79	-11.18	-8.33	-6.25	-5.93	-7.11	-9.92	-13.27	-15.02	-20.55	-25.00
315	-25.62	-23.22	-14.64	-10.94	-8.18	-6.24	-6.06	-7.20	-9.88	-12.89	-14.67	-20.26	-24.43
330	-23.67	-23.57	-14.50	-10.62	-7.91	-6.12	-5.93	-7.07	-9.51	-12.23	-14.06	-19.77	-24.14
345	-21.27	-24.10	-14.28	-10.23	-7.56	-5.82	-5.69	-6.69	-8.84	-11.32	-13.49	-19.33	-24.39
360	-18.92	-24.56	-14.23	-9.89	-7.11	-5.47	-5.28	-6.16	-8.16	-10.62	-13.02	-18.77	-25.74
Avg.	-18.20	-24.23	-16.22	-11.64	-8.37	-6.08	-5.34	-5.80	-7.40	-9.36	-11.02	-14.62	-22.67
Peak Value	-4.330	Minimum Value -43.859											

LHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-21.01	-13.88	-10.17	-8.69	-8.12	-6.30	-5.25	-6.37	-9.11	-10.29	-10.64	-13.90	-24.50
15	-20.90	-13.69	-10.00	-8.50	-8.05	-6.58	-5.58	-6.84	-9.77	-10.95	-11.23	-14.77	-28.23
30	-20.53	-13.50	-9.80	-8.43	-8.01	-6.86	-5.97	-7.26	-10.51	-11.73	-11.87	-15.73	-33.20
45	-19.62	-13.09	-9.54	-8.09	-7.96	-7.05	-6.25	-7.57	-11.30	-12.74	-12.60	-16.69	-42.33
60	-18.57	-12.63	-9.24	-7.79	-7.68	-7.01	-6.38	-7.78	-11.95	-13.85	-13.38	-17.67	-38.48
75	-17.37	-12.02	-8.86	-7.50	-7.49	-6.92	-6.29	-7.67	-12.18	-15.03	-14.15	-18.45	-33.28
90	-16.39	-11.41	-8.47	-7.19	-7.09	-6.62	-6.00	-7.33	-12.00	-15.90	-14.65	-18.76	-31.55
105	-15.50	-10.93	-8.14	-6.89	-6.77	-6.24	-5.59	-6.82	-11.35	-16.09	-14.87	-18.48	-29.52
120	-14.99	-10.53	-7.92	-6.73	-6.60	-5.94	-5.17	-6.34	-10.74	-15.55	-14.45	-17.46	-26.94
135	-14.63	-10.31	-7.73	-6.72	-6.58	-5.68	-4.80	-5.84	-10.12	-14.76	-13.71	-16.24	-24.59
150	-14.79	-10.15	-7.64	-6.76	-6.67	-5.58	-4.56	-5.63	-9.66	-13.72	-12.68	-14.90	-22.48
165	-15.16	-10.41	-7.88	-7.00	-6.97	-5.66	-4.48	-5.52	-9.35	-12.62	-11.65	-13.72	-20.54
180	-15.64	-10.59	-8.02	-7.29	-7.40	-5.93	-4.54	-5.49	-9.09	-11.62	-10.70	-12.57	-18.62
195	-16.54	-10.97	-8.34	-7.68	-7.98	-6.29	-4.68	-5.56	-8.86	-10.75	-9.90	-11.73	-17.45
210	-17.78	-11.55	-8.78	-8.21	-8.68	-6.69	-4.90	-5.65	-8.64	-9.99	-9.23	-11.02	-16.43
225	-19.15	-12.21	-9.17	-8.70	-9.30	-7.06	-5.04	-5.76	-8.39	-9.21	-8.67	-10.55	-15.78
240	-20.25	-12.94	-9.83	-9.28	-9.94	-7.32	-5.13	-5.78	-8.10	-8.70	-8.36	-10.33	-15.51
255	-21.16	-13.61	-10.32	-9.70	-10.23	-7.47	-5.17	-5.75	-7.79	-8.31	-8.22	-10.24	-15.44
270	-21.38	-14.04	-10.70	-10.00	-10.32	-7.23	-5.04	-5.58	-7.59	-8.21	-8.27	-10.45	-15.78
285	-21.02	-14.32	-10.88	-10.08	-10.01	-6.87	-4.85	-5.47	-7.45	-8.22	-8.45	-10.72	-16.29
300	-20.74	-14.34	-10.87	-9.90	-9.46	-6.48	-4.68	-5.40	-7.52	-8.37	-8.75	-11.16	-17.13
315	-20.72	-14.26	-10.76	-9.54	-8.89	-6.15	-4.61	-5.49	-7.70	-8.74	-9.10	-11.68	-18.27
330	-20.90	-14.11	-10.56	-9.22	-8.47	-6.06	-4.72	-5.69	-8.07	-9.15	-9.59	-12.35	-19.86
345	-20.82	-14.04	-10.39	-8.93	-8.23	-6.10	-4.92	-5.99	-8.52	-9.66	-10.05	-13.10	-21.93
360	-21.01	-13.88	-10.17	-8.69	-8.12	-6.30	-5.25	-6.37	-9.11	-10.29	-10.64	-13.90	-24.50
Avg.	-18.04	-12.40	-9.37	-8.32	-8.23	-6.65	-5.33	-6.30	-9.34	-10.88	-10.70	-13.18	-19.72
Peak Value	-4.484	Minimum Value -42.335											

AR													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	18.43	5.24	12.78	23.21	24.77	26.50	54.11	38.71	25.22	34.24	17.33	11.27	23.00
15	14.12	5.14	12.23	23.33	23.29	21.76	29.09	23.70	17.80	25.32	22.97	14.53	28.93
30	12.18	5.37	11.40	22.76	22.63	19.33	22.61	18.94	13.96	17.87	37.32	20.00	16.83
45	11.68	5.77	10.14	19.46	23.33	18.32	19.93	16.52	11.54	13.43	24.48	43.56	16.06
60	12.43	6.05	8.65	16.86	27.35	18.56	18.60	15.22	9.93	10.57	17.18	18.36	23.00
75	14.29	6.11	7.03	13.47	62.53	20.21	19.22	15.13	9.25	8.41	13.48	13.09	14.08
90	16.96	5.60	5.39	10.82	23.22	24.98	21.72	16.14	9.28	7.17	11.40	10.69	8.73
105	23.04	4.87	4.18	8.72	17.40	50.17	27.26	18.44	10.15	6.78	10.16	9.82	8.28
120	53.63	3.75	3.44	7.49	14.32	26.83	54.38	21.86	11.24	7.07	10.13	10.19	8.12
135	23.52	2.46	3.39	7.23	13.25	21.38	27.57	30.34	12.66	7.71	10.64	11.26	9.25
150	17.15	1.57	3.79	7.58	13.49	20.32	23.87	38.73	14.17	8.91	12.21	13.42	11.46
165	13.84	0.37	5.02	8.67	15.28	22.11	23.50	48.91	15.54	10.63	14.57	16.28	15.63
180	11.62	1.36	5.94	10.12	18.70	27.82	25.50	47.19	17.17	13.02	18.50	23.08	31.07
195	10.40	2.49	7.18	11.79	25.76	47.47	29.97	62.14	19.01	16.50	26.33	43.28	19.73
210	9.80	3.61	8.23	13.85	38.45	26.57	44.19	40.05	21.20	22.47	29.20	19.64	11.44
225	9.64	4.24	9.29	15.80	23.97	21.96	39.34	35.88	25.03	35.23	18.37	14.15	7.42
240	9.55	5.27	10.34	18.44	19.52	20.35	35.36	41.09	34.91	20.46	13.82	10.75	4.70
255	9.14	5.89	11.33	20.38	18.36	19.79	44.75	42.35	30.42	15.18	11.10	8.25	3.62
270	8.39	6.36	12.04	22.33	18.59	22.19	35.02	27.76	22.44	12.57	9.47	6.80	4.08
285	8.19	6.60	12.78	23.26	20.29	26.80	26.53	22.88	18.66	11.26	8.89	6.09	5.55
300	8.13	6.70	13.09	22.72	23.73	37.43	22.82	20.16	17.25	11.22	9.23	6.13	7.44
315	11.23	6.47	13.17	21.90	27.87	45.49	21.61	20.15	18.06	12.59	10.17	6.79	9.37
330	16.02	6.08	13.03	21.88	29.77	49.14	23.15	22.03	21.64	15.12	11.97	7.90	12.34
345	31.64	5.65	13.13	22.51	28.34	35.92	27.10	27.91	34.51	20.41	14.18	9.27	17.02
360	18.43	5.24	12.78	23.21	24.77	26.50	54.11	38.71	25.22	34.24	17.33	11.27	23.00
Avg.	39.70	4.85	10.06	19.33	48.58	40.66	43.87	48.64	25.40	24.51	24.83	32.52	20.58
Peak Value	62.533	Minimum Value 0.369											

513.7 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.14	-13.07	-8.34	-5.85	-4.24	-2.49	-1.87	-2.85	-5.11	-6.94	-8.17	-12.16	-21.29
15	-15.02	-12.92	-8.26	-5.66	-4.05	-2.45	-1.88	-2.83	-5.03	-6.95	-8.34	-12.63	-24.16
30	-13.92	-12.56	-8.19	-5.60	-3.93	-2.44	-1.89	-2.76	-4.95	-6.93	-8.50	-13.00	-28.16
45	-12.84	-12.06	-8.08	-5.51	-3.92	-2.48	-1.90	-2.67	-4.80	-6.92	-8.54	-13.08	-37.76
60	-12.07	-11.46	-7.92	-5.41	-3.87	-2.46	-1.85	-2.56	-4.68	-6.86	-8.50	-12.92	-34.30
75	-11.37	-10.77	-7.78	-5.55	-4.06	-2.59	-1.82	-2.42	-4.50	-6.70	-8.34	-12.45	-26.66
90	-10.97	-10.19	-7.54	-5.54	-4.21	-2.68	-1.79	-2.29	-4.32	-6.54	-8.07	-11.87	-23.03
105	-10.82	-9.81	-7.31	-5.56	-4.35	-2.80	-1.76	-2.18	-4.16	-6.33	-7.71	-11.09	-20.80
120	-10.96	-9.50	-7.17	-5.56	-4.53	-2.89	-1.75	-2.09	-4.07	-6.11	-7.27	-10.31	-18.19
135	-11.10	-9.46	-7.05	-5.60	-4.67	-2.93	-1.72	-2.11	-4.02	-5.92	-6.80	-9.66	-16.74
150	-11.74	-9.37	-6.93	-5.62	-4.73	-2.95	-1.68	-2.05	-4.08	-5.81	-6.52	-9.17	-16.00
165	-12.53	-9.67	-7.04	-5.71	-4.85	-2.91	-1.63	-2.03	-4.17	-5.73	-6.26	-8.73	-15.43
180	-13.33	-9.90	-7.09	-5.81	-4.95	-2.90	-1.59	-2.09	-4.23	-5.75	-6.11	-8.52	-15.05
195	-14.37	-10.29	-7.29	-5.99	-5.10	-2.90	-1.55	-2.12	-4.31	-5.79	-6.06	-8.44	-14.99
210	-15.70	-10.86	-7.61	-6.23	-5.24	-2.94	-1.56	-2.16	-4.35	-5.85	-6.10	-8.46	-14.89
225	-17.03	-11.49	-7.87	-6.53	-5.38	-2.98	-1.55	-2.19	-4.39	-5.87	-6.21	-8.58	-14.72
240	-18.24	-12.12	-8.40	-6.84	-5.63	-3.05	-1.54	-2.24	-4.42	-5.96	-6.40	-8.81	-14.75
255	-19.14	-12.69	-8.73	-7.09	-5.75	-3.10	-1.67	-2.32	-4.52	-6.06	-6.59	-9.06	-14.68
270	-19.53	-13.12	-8.99	-7.28	-5.84	-3.11	-1.73	-2.46	-4.64	-6.26	-6.85	-9.41	-14.76
285	-19.45	-13.28	-9.06	-7.26	-5.70	-3.04	-1.77	-2.55	-4.83	-6.49	-7.12	-9.79	-15.09
300	-19.16	-13.27	-9.01	-7.07	-5.46	-2.93	-1.78	-2.68	-5.01	-6.66	-7.40	-10.17	-15.62
315	-18.78	-13.32	-8.87	-6.77	-5.14	-2.78	-1.83	-2.80	-5.15	-6.81	-7.58	-10.63	-16.44
330	-18.10	-13.23	-8.67	-6.44	-4.80	-2.67	-1.85	-2.88	-5.21	-6.95	-7.78	-11.10	-17.62
345	-17.26	-13.12	-8.51	-6.14	-4.48	-2.57	-1.85	-2.88	-5.21	-6.92	-7.94	-11.63	-19.10
360	-16.14	-13.07	-8.34	-5.85	-4.24	-2.49	-1.87	-2.85	-5.11	-6.94	-8.17	-12.16	-21.29
Avg.	-14.13	-11.50	-8.11	-6.24	-4.92	-2.97	-1.92	-2.59	-4.75	-6.53	-7.39	-10.38	-17.35
Peak Value	-1.538	Minimum Value -37.761											

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-21.18	-14.52	-8.60	-5.87	-4.25	-2.59	-1.96	-2.91	-5.22	-7.13	-8.31	-12.49	-31.97
15	-20.85	-14.82	-8.58	-5.73	-4.08	-2.50	-1.93	-2.87	-5.16	-7.18	-8.45	-12.77	-33.63
30	-20.24	-15.10	-8.67	-5.71	-4.02	-2.50	-1.93	-2.83	-5.18	-7.24	-8.64	-13.05	-34.24
45	-20.29	-15.40	-8.84	-5.82	-4.12	-2.59	-1.97	-2.81	-5.16	-7.36	-8.73	-13.13	-39.46
60	-20.48	-15.70	-9.05	-5.92	-4.21	-2.66	-2.00	-2.83	-5.20	-7.47	-8.79	-13.06	-52.42
75	-21.17	-15.81	-9.27	-6.33	-4.57	-2.90	-2.09	-2.83	-5.22	-7.49	-8.72	-12.72	-33.64
90	-22.31	-15.69	-9.42	-6.54	-4.88	-3.10	-2.16	-2.83	-5.19	-7.46	-8.53	-12.32	-27.54
105	-23.69	-15.38	-9.39	-6.72	-5.11	-3.28	-2.20	-2.80	-5.13	-7.31	-8.22	-11.61	-24.27
120	-25.62	-14.77	-9.25	-6.76	-5.29	-3.35	-2.18	-2.72	-5.03	-7.04	-7.75	-10.79	-20.21
135	-26.44	-14.12	-8.97	-6.68	-5.31	-3.29	-2.08	-2.62	-4.89	-6.74	-7.23	-10.06	-18.03
150	-26.64	-13.48	-8.67	-6.52	-5.22	-3.19	-1.93	-2.46	-4.74	-6.47	-6.83	-9.44	-16.71
165	-26.06	-12.99	-8.41	-6.42	-5.16	-3.03	-1.77	-2.32	-4.62	-6.17	-6.45	-8.87	-15.68
180	-25.95	-12.66	-8.23	-6.34	-5.13	-2.94	-1.64	-2.19	-4.47	-6.00	-6.19	-8.55	-15.09
195	-26.00	-12.54	-8.19	-6.38	-5.19	-2.90	-1.55	-2.14	-4.40	-5.91	-6.08	-8.44	-15.03
210	-26.94	-12.74	-8.34	-6.50	-5.29	-2.96	-1.58	-2.17	-4.39	-5.94	-6.14	-8.51	-15.24
225	-28.29	-13.13	-8.44	-6.73	-5.42	-3.07	-1.64	-2.25	-4.48	-6.04	-6.33	-8.77	-15.72
240	-29.36	-13.58	-8.86	-6.95	-5.68	-3.23	-1.74	-2.42	-4.65	-6.30	-6.67	-9.22	-16.76
255	-29.68	-14.03	-9.11	-7.15	-5.83	-3.39	-2.01	-2.65	-4.94	-6.58	-7.04	-9.75	-18.00
270	-28.44	-14.44	-9.33	-7.31	-5.96	-3.51	-2.21	-2.93	-5.24	-6.95	-7.43	-10.34	-19.73
285	-26.38	-14.58	-9.41	-7.31	-5.85	-3.51	-2.32	-3.11	-5.49	-7.20	-7.74	-10.86	-21.62
300	-24.65	-14.54	-9.38	-7.15	-5.63	-3.39	-2.33	-3.21	-5.59	-7.28	-7.96	-11.25	-24.07
315	-23.63	-14.58	-9.22	-6.86	-5.30	-3.17	-2.28	-3.21	-5.58	-7.27	-8.01	-11.56	-26.64
330	-22.83	-14.45	-8.97	-6.51	-4.91	-2.96	-2.17	-3.14	-5.48	-7.26	-8.10	-11.83	-28.67
345	-22.10	-14.38	-8.78	-6.19	-4.53	-2.75	-2.05	-3.02	-5.37	-7.13	-8.15	-12.16	-30.82
360	-21.18	-14.52	-8.60	-5.87	-4.25	-2.59	-1.96	-2.91	-5.22	-7.13	-8.31	-12.49	-31.97
Avg.	-23.78	-14.38	-9.05	-6.67	-5.18	-3.20	-2.16	-2.88	-5.19	-7.01	-7.68	-10.77	-19.78
Peak Value	-1.552	Minimum Value -52.418											

Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-17.77	-18.53	-20.70	-27.82	-27.69	-19.10	-18.57	-21.41	-21.20	-20.73	-23.04	-23.56	-21.68
15	-16.33	-17.42	-19.69	-23.94	-25.76	-21.33	-21.89	-23.44	-20.21	-19.88	-24.04	-27.38	-24.68
30	-15.08	-16.10	-17.99	-21.73	-20.69	-21.05	-23.05	-20.93	-17.97	-18.58	-23.55	-31.84	-29.39
45	-13.70	-14.77	-16.01	-17.10	-17.44	-18.58	-19.96	-17.58	-15.87	-17.08	-22.18	-33.02	-42.66
60	-12.75	-13.51	-14.32	-14.96	-15.17	-16.05	-16.53	-14.90	-14.11	-15.66	-20.36	-28.17	-34.37
75	-11.85	-12.40	-13.15	-13.42	-13.62	-14.27	-14.04	-12.93	-12.65	-14.48	-19.11	-24.50	-27.63
90	-11.30	-11.64	-12.07	-12.39	-12.64	-13.10	-12.65	-11.58	-11.70	-13.74	-18.10	-21.95	-24.93
105	-11.05	-11.22	-11.50	-11.85	-12.26	-12.66	-11.90	-10.93	-11.17	-13.30	-17.22	-20.60	-23.39
120	-11.11	-11.03	-11.35	-11.75	-12.49	-12.86	-11.96	-10.82	-11.12	-13.24	-17.06	-20.14	-22.47
135	-11.23	-11.28	-11.51	-12.17	-13.30	-13.85	-12.63	-11.68	-11.45	-13.53	-17.10	-20.21	-22.65
150	-11.88	-11.51	-11.75	-12.87	-14.51	-15.60	-14.12	-12.52	-12.57	-14.35	-18.15	-21.40	-24.21
165	-12.72	-12.40	-12.70	-13.89	-16.44	-18.49	-16.56	-13.91	-14.26	-15.91	-20.03	-23.68	-27.90
180	-13.57	-13.18	-13.44	-15.21	-19.00	-23.75	-21.39	-18.66	-16.90	-18.33	-23.37	-29.55	-35.31
195	-14.68	-14.23	-14.53	-16.69	-22.11	-38.73	-31.08	-26.27	-21.08	-21.17	-28.54	-44.49	-35.77
210	-16.04	-15.41	-15.73	-18.31	-24.73	-26.07	-24.78	-32.49	-24.46	-22.60	-26.87	-27.91	-26.02
225	-17.37	-16.50	-16.95	-20.18	-25.56	-20.20	-18.39	-20.92	-20.92	-20.06	-21.78	-22.27	-21.59
240	-18.59	-17.56	-18.37	-22.86	-24.78	-17.00	-14.97	-16.30	-17.18	-17.25	-18.56	-19.30	-19.06
255	-19.54	-18.46	-19.40	-26.06	-23.35	-14.96	-12.90	-13.63	-14.87	-15.53	-16.68	-17.43	-17.40
270	-20.13	-18.95	-20.18	-28.22	-21.80	-13.71	-11.57	-12.30	-13.58	-14.60	-15.88	-16.57	-16.42
285	-20.43	-19.18	-20.18	-26.24	-20.28	-12.99	-10.98	-11.74	-13.37	-14.69	-15.87	-16.37	-16.19
300	-20.60	-19.24	-19.97	-24.26	-19.56	-12.88	-11.04	-12.08	-14.03	-15.44	-16.60	-16.73	-16.29
315	-20.50	-19.29	-19.95	-23.62	-19.79	-13.44	-11.86	-13.28	-15.41	-16.82	-17.86	-17.77	-16.88
330	-19.88	-19.34	-20.34	-24.44	-20.99	-14.64	-13.31	-15.16	-17.51	-18.56	-19.30	-19.20	-17.97
345	-18.99	-19.12	-20.72	-25.58	-23.94	-16.54	-15.37	-17.83	-19.81	-20.27	-21.34	-21.06	-19.40
360	-17.77	-18.53	-20.70	-27.82	-27.69	-19.10	-18.57	-21.41	-21.20	-20.73	-23.04	-23.56	-21.68
Avg.	-14.63	-14.64	-15.21	-16.54	-17.33	-15.81	-14.57	-14.48	-14.86	-16.32	-19.22	-20.98	-21.04
Peak Value	-10.820	Minimum Value -44.493											

RHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.35	-25.57	-14.09	-9.59	-6.75	-5.02	-4.84	-5.71	-7.59	-10.07	-12.50	-18.34	-25.48
15	-16.75	-25.93	-14.24	-9.42	-6.50	-4.73	-4.50	-5.26	-6.96	-9.37	-11.92	-17.54	-27.26
30	-15.37	-24.87	-14.63	-9.40	-6.32	-4.55	-4.22	-4.82	-6.43	-8.83	-11.55	-16.88	-30.76
45	-14.25	-23.29	-15.25	-9.72	-6.39	-4.49	-4.04	-4.48	-5.95	-8.32	-10.91	-15.84	-39.69
60	-13.57	-21.98	-16.23	-10.08	-6.57	-4.50	-3.91	-4.24	-5.60	-7.84	-10.31	-14.85	-36.54
75	-13.12	-20.83	-17.48	-11.17	-7.20	-4.81	-3.95	-4.11	-5.32	-7.37	-9.75	-13.81	-27.73
90	-13.02	-20.66	-19.52	-12.27	-8.02	-5.24	-4.14	-4.11	-5.17	-7.04	-9.20	-12.86	-23.83
105	-13.30	-21.07	-21.70	-13.74	-8.88	-5.84	-4.44	-4.27	-5.15	-6.79	-8.65	-11.98	-21.45
120	-13.98	-22.35	-23.62	-14.83	-9.85	-6.43	-4.86	-4.48	-5.25	-6.61	-8.21	-11.26	-18.90
135	-14.73	-24.96	-23.49	-15.14	-10.33	-6.87	-5.20	-4.90	-5.40	-6.53	-7.83	-10.76	-17.54
150	-15.93	-28.11	-22.10	-14.67	-10.30	-7.01	-5.36	-4.97	-5.66	-6.59	-7.75	-10.55	-17.12
165	-17.42	-39.04	-19.61	-13.86	-9.90	-6.77	-5.34	-5.05	-5.92	-6.77	-7.81	-10.49	-17.11
180	-18.74	-38.65	-18.15	-12.91	-9.25	-6.33	-5.11	-5.14	-6.13	-7.13	-8.09	-10.89	-17.79
195	-20.29	-30.29	-16.91	-12.19	-8.65	-5.84	-4.84	-5.12	-6.39	-7.58	-8.62	-11.49	-18.87
210	-21.91	-27.00	-16.18	-11.69	-8.18	-5.49	-4.57	-5.03	-6.61	-8.18	-9.38	-12.50	-20.98
225	-23.19	-25.51	-15.54	-11.44	-7.87	-5.26	-4.40	-4.99	-6.86	-8.97	-10.43	-13.81	-23.70
240	-24.30	-24.40	-15.40	-11.23	-7.80	-5.19	-4.31	-5.10	-7.21	-9.91	-11.64	-15.44	-27.01
255	-25.21	-23.67	-15.18	-11.17	-7.79	-5.21	-4.55	-5.33	-7.70	-10.89	-12.95	-17.35	-28.38
270	-26.03	-23.38	-14.94	-11.10	-7.89	-5.41	-4.81	-5.75	-8.31	-11.97	-14.13	-19.15	-26.57
285	-26.72	-23.04	-14.72	-11.03	-7.89	-5.58	-5.16	-6.16	-8.94	-12.67	-14.84	-20.41	-25.11
300	-26.71	-22.93	-14.59	-10.81	-7.91	-5.73	-5.40	-6.56	-9.34	-12.83	-14.86	-20.68	-23.83
315	-24.81	-23.46	-14.44	-10.57	-7.79	-5.77	-5.55	-6.71	-9.37	-12.46	-14.31	-20.16	-23.24
330	-22.60	-24.04	-14.21	-10.22	-7.52	-5.65	-5.48	-6.59	-8.96	-11.77	-13.76	-19.52	-23.48
345	-20.50	-24.88	-14.15	-9.93	-7.14	-5.37	-5.19	-6.19	-8.35	-10.80	-13.03	-18.95	-23.58
360	-18.35	-25.57	-14.09	-9.59	-6.75	-5.02	-4.84	-5.71	-7.59	-10.07	-12.50	-18.34	-25.48
Avg.	-17.22	-24.20	-16.30	-11.46	-8.05	-5.67	-4.91	-5.32	-6.83	-8.76	-10.50	-14.13	-22.03
Peak Value	-3.913	Minimum Value -39.690											

LHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-20.13	-13.32	-9.69	-8.23	-7.80	-6.04	-4.92	-6.01	-8.72	-9.85	-10.17	-13.36	-23.38
15	-19.84	-13.14	-9.52	-8.03	-7.70	-6.32	-5.32	-6.52	-9.47	-10.65	-10.84	-14.32	-27.08
30	-19.40	-12.82	-9.31	-7.94	-7.66	-6.60	-5.71	-7.00	-10.35	-11.43	-11.47	-15.28	-31.63
45	-18.40	-12.40	-9.00	-7.58	-7.54	-6.80	-6.00	-7.34	-11.15	-12.53	-12.31	-16.37	-42.21
60	-17.43	-11.86	-8.61	-7.21	-7.22	-6.72	-6.07	-7.50	-11.85	-13.80	-13.16	-17.38	-38.24
75	-16.16	-11.22	-8.27	-6.95	-6.95	-6.56	-5.94	-7.36	-12.12	-15.15	-13.90	-18.13	-33.26
90	-15.23	-10.60	-7.82	-6.58	-6.54	-6.19	-5.58	-6.95	-11.79	-16.16	-14.49	-18.77	-30.81
105	-14.42	-10.15	-7.47	-6.28	-6.23	-5.79	-5.12	-6.36	-11.07	-16.36	-14.81	-18.43	-29.35
120	-13.95	-9.73	-7.27	-6.11	-6.05	-5.42	-4.67	-5.83	-10.32	-15.72	-14.36	-17.35	-26.38
135	-13.57	-9.59	-7.15	-6.11	-6.04	-5.17	-4.30	-5.36	-9.68	-14.74	-13.59	-16.16	-24.47
150	-13.82	-9.43	-7.07	-6.19	-6.14	-5.11	-4.11	-5.16	-9.22	-13.68	-12.59	-14.82	-22.42
165	-14.23	-9.68	-7.28	-6.43	-6.48	-5.21	-4.03	-5.02	-8.96	-12.49	-11.50	-13.49	-20.36
180	-14.80	-9.91	-7.44	-6.75	-6.97	-5.53	-4.14	-5.07	-8.75	-11.40	-10.47	-12.26	-18.34
195	-15.65	-10.34	-7.79	-7.18	-7.64	-5.97	-4.29	-5.15	-8.49	-10.49	-9.57	-11.41	-17.27
210	-16.89	-10.97	-8.26	-7.68	-8.33	-6.46	-4.57	-5.32	-8.27	-9.66	-8.87	-10.64	-16.11
225	-18.23	-11.66	-8.68	-8.23	-8.99	-6.87	-4.73	-5.42	-8.01	-8.78	-8.27	-10.13	-15.30
240	-19.47	-12.38	-9.37	-8.81	-9.68	-7.15	-4.81	-5.42	-7.66	-8.20	-7.94	-9.87	-15.02
255	-20.37	-13.05	-9.84	-9.25	-10.02	-7.25	-4.81	-5.33	-7.37	-7.79	-7.73	-9.76	-14.87
270	-20.63	-13.55	-10.26	-9.60	-10.09	-6.99	-4.67	-5.21	-7.08	-7.62	-7.75	-9.90	-15.05
285	-20.35	-13.77	-10.43	-9.62	-9.71	-6.59	-4.43	-5.04	-6.97	-7.68	-7.93	-10.18	-15.55
300	-19.99	-13.77	-10.42	-9.45	-9.11	-6.15	-4.26	-4.96	-7.01	-7.86	-8.26	-10.57	-16.34
315	-20.02	-13.76	-10.28	-9.10	-8.56	-5.82	-4.22	-5.07	-7.22	-8.19	-8.62	-11.14	-17.46
330	-20.00	-13.61	-10.09	-8.80	-8.13	-5.72	-4.32	-5.28	-7.59	-8.68	-9.05	-11.77	-18.92
345	-20.06	-13.42	-9.90	-8.49	-7.87	-5.81	-4.55	-5.61	-8.11	-9.21	-9.55	-12.52	-21.02
360	-20.13	-13.32	-9.69	-8.23	-7.80	-6.04	-4.92	-6.01	-8.72	-9.85	-10.17	-13.36	-23.38
Avg.	-17.06	-11.74	-8.82	-7.80	-7.81	-6.31	-4.95	-5.91	-8.95	-10.50	-10.30	-12.75	-19.16
Peak Value		-4.028		Minimum Value		-42.215							

AR													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	19.81	4.33	12.10	22.19	24.35	24.64	46.70	35.05	23.76	37.94	17.47	11.08	18.39
15	15.09	4.06	11.53	21.99	23.18	20.81	26.54	22.84	16.87	22.67	24.17	14.75	39.73
30	12.84	4.43	10.54	21.49	22.25	18.56	21.34	18.10	13.07	16.56	46.85	20.79	26.00
45	12.60	5.10	9.24	18.23	23.59	17.57	18.98	15.76	10.72	12.48	21.91	30.29	16.81
60	13.19	5.61	7.70	15.72	28.63	17.92	18.17	14.64	9.24	9.62	15.78	16.80	20.21
75	15.21	5.97	6.28	12.45	37.08	19.97	18.88	14.65	8.57	7.53	12.60	12.26	10.23
90	17.95	5.65	4.62	9.99	21.44	25.27	21.66	15.80	8.79	6.35	10.59	9.70	8.36
105	23.86	5.08	3.42	7.86	16.38	50.25	28.06	18.40	9.68	6.00	9.35	8.99	7.42
120	56.67	4.14	2.66	6.67	13.33	24.73	39.31	22.18	10.95	6.35	9.38	9.46	7.83
135	23.49	2.99	2.67	6.42	12.33	20.20	25.79	31.52	12.35	7.12	9.89	10.41	8.44
150	18.32	2.03	3.11	6.88	12.58	19.27	22.91	39.32	13.91	8.25	11.32	12.34	10.59
165	14.82	0.59	4.29	7.88	14.23	20.95	22.44	55.24	15.23	9.96	13.59	15.34	14.66
180	13.03	0.64	5.21	9.36	17.72	26.77	25.06	47.77	16.50	12.35	17.33	22.09	30.04
195	11.67	1.75	6.34	11.04	24.72	42.48	30.13	53.06	18.41	15.59	25.24	46.53	20.76
210	11.02	2.77	7.40	12.88	40.82	25.07	70.50	35.53	20.41	21.40	30.58	19.43	11.27
225	11.11	3.57	8.51	14.78	23.80	20.67	34.50	32.20	23.53	39.16	18.15	13.60	6.96
240	11.33	4.45	9.52	17.19	19.32	19.02	30.84	34.76	31.66	20.16	13.56	10.17	4.46
255	11.33	5.27	10.51	19.16	17.87	18.63	36.28	70.49	34.48	15.07	10.70	7.72	3.72
270	10.42	5.81	11.59	21.32	18.00	20.85	41.76	30.14	22.98	12.22	9.08	6.24	4.73
285	9.09	6.23	12.32	21.87	19.63	24.72	27.58	23.82	18.95	11.08	8.45	5.53	6.00
300	8.67	6.31	12.56	22.13	23.23	32.42	23.64	20.78	17.51	11.09	8.81	5.62	7.82
315	11.41	5.90	12.58	21.49	27.08	51.06	22.34	20.55	18.22	12.36	10.00	6.43	9.87
330	16.55	5.39	12.66	21.73	29.03	47.88	23.51	22.45	22.07	15.09	11.54	7.57	11.82
345	31.97	4.76	12.40	21.62	27.47	32.06	28.69	29.47	37.22	20.79	14.08	9.02	16.70
360	19.81	4.33	12.10	22.19	24.35	24.64	46.70	35.05	23.76	37.94	17.47	11.08	18.39
Avg.	42.71	4.39	9.40	18.36	29.45	41.06	56.55	56.75	26.43	27.87	33.07	32.71	26.56
Peak Value		70.497		Minimum Value		0.592							

515.0 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.15	-13.09	-8.36	-5.85	-4.25	-2.51	-1.86	-2.85	-5.05	-6.85	-8.08	-12.07	-21.27
15	-15.11	-12.98	-8.30	-5.68	-4.06	-2.47	-1.87	-2.84	-5.01	-6.84	-8.16	-12.25	-22.61
30	-14.03	-12.55	-8.29	-5.64	-4.00	-2.46	-1.89	-2.80	-4.92	-6.79	-8.39	-12.80	-26.27
45	-12.90	-12.44	-8.06	-5.54	-3.99	-2.50	-1.89	-2.70	-4.84	-6.90	-8.41	-12.90	-33.02
60	-12.52	-11.88	-8.16	-5.43	-3.91	-2.51	-1.84	-2.62	-4.61	-6.76	-8.41	-12.85	-32.86
75	-11.32	-11.19	-7.80	-5.51	-3.92	-2.67	-1.84	-2.42	-4.54	-6.62	-8.34	-12.49	-26.95
90	-10.90	-10.65	-7.77	-5.56	-4.31	-2.64	-1.84	-2.35	-4.29	-6.59	-8.07	-11.81	-22.60
105	-10.81	-9.85	-7.40	-5.58	-4.44	-2.82	-1.78	-2.19	-4.16	-6.29	-7.66	-11.05	-20.61
120	-10.83	-9.66	-7.20	-5.61	-4.58	-2.90	-1.75	-2.07	-4.08	-6.03	-7.19	-10.25	-18.10
135	-11.07	-9.49	-7.23	-5.59	-4.64	-2.94	-1.73	-2.14	-3.99	-5.96	-7.03	-9.93	-17.37
150	-11.70	-9.50	-7.06	-5.66	-4.73	-2.98	-1.62	-2.05	-4.01	-5.74	-6.63	-9.03	-16.58
165	-11.99	-9.62	-6.95	-5.76	-4.90	-2.96	-1.72	-2.09	-4.00	-5.78	-6.35	-8.96	-15.30
180	-13.26	-9.95	-7.14	-5.77	-4.93	-2.93	-1.54	-2.00	-4.24	-5.67	-6.16	-8.66	-15.30
195	-13.84	-10.13	-7.22	-6.04	-5.19	-2.94	-1.56	-2.08	-4.18	-5.66	-6.03	-8.44	-15.16
210	-15.59	-10.64	-7.66	-6.14	-5.21	-2.95	-1.56	-2.11	-4.27	-5.75	-6.03	-8.43	-14.85
225	-16.92	-11.52	-7.81	-6.45	-5.50	-3.05	-1.57	-2.07	-4.25	-5.82	-6.21	-8.71	-15.33
240	-18.18	-12.05	-8.35	-6.78	-5.57	-3.00	-1.53	-2.25	-4.42	-5.83	-6.27	-8.71	-14.51
255	-18.65	-12.83	-8.80	-7.15	-5.80	-3.19	-1.65	-2.29	-4.43	-6.03	-6.59	-9.10	-15.30
270	-19.35	-13.16	-8.94	-7.30	-5.94	-3.10	-1.61	-2.34	-4.51	-6.25	-6.65	-9.20	-14.59
285	-19.20	-13.29	-9.08	-7.31	-5.82	-3.08	-1.72	-2.51	-4.73	-6.32	-7.13	-9.65	-15.28
300	-19.11	-13.38	-9.08	-7.10	-5.50	-2.95	-1.79	-2.63	-4.90	-6.52	-7.22	-10.05	-15.55
315	-18.88	-13.34	-9.00	-6.92	-5.33	-2.88	-1.86	-2.68	-5.00	-6.64	-7.47	-10.61	-16.51
330	-18.25	-13.20	-8.67	-6.47	-5.00	-2.81	-1.76	-2.88	-5.12	-6.86	-7.64	-10.93	-17.71
345	-17.83	-13.16	-8.60	-6.14	-4.65	-2.64	-1.91	-2.79	-5.14	-6.79	-7.91	-11.28	-18.42
360	-16.15	-13.09	-8.36	-5.85	-4.25	-2.51	-1.86	-2.85	-5.05	-6.85	-8.08	-12.07	-21.27
Avg.	-14.08	-11.58	-8.16	-6.26	-4.97	-3.00	-1.91	-2.57	-4.69	-6.46	-7.35	-10.34	-17.44
Peak Value		-1.533		Minimum Value		-33.019							

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-21.72	-14.61	-8.62	-5.88	-4.27	-2.61	-1.95	-2.91	-5.15	-7.02	-8.20	-12.35	-31.50
15	-21.58	-14.91	-8.61	-5.74	-4.09	-2.53	-1.92	-2.89	-5.14	-7.03	-8.27	-12.46	-32.17
30	-20.88	-15.04	-8.66	-5.74	-4.05	-2.51	-1.93	-2.84	-5.09	-7.09	-8.51	-12.88	-33.63
45	-20.56	-15.36	-8.79	-5.76	-4.12	-2.61	-1.96	-2.80	-5.12	-7.27	-8.56	-12.92	-39.60
60	-20.55	-15.68	-9.07	-5.93	-4.24	-2.66	-2.00	-2.82	-5.15	-7.37	-8.64	-12.93	-42.81
75	-20.93	-15.88	-9.25	-6.13	-4.40	-2.92	-2.05	-2.82	-5.17	-7.41	-8.64	-12.81	-38.04
90	-22.51	-15.89	-9.46	-6.54	-4.92	-3.00	-2.16	-2.83	-5.17	-7.45	-8.56	-12.16	-27.17
105	-23.93	-15.43	-9.47	-6.74	-5.17	-3.28	-2.21	-2.81	-5.08	-7.27	-8.13	-11.51	-24.32
120	-24.75	-15.20	-9.26	-6.79	-5.34	-3.35	-2.20	-2.69	-5.05	-6.99	-7.68	-10.76	-20.15
135	-26.90	-14.20	-9.23	-6.72	-5.35	-3.36	-2.13	-2.65	-4.85	-6.87	-7.49	-10.39	-19.12
150	-26.82	-13.94	-8.86	-6.65	-5.30	-3.22	-1.93	-2.44	-4.78	-6.40	-7.01	-9.36	-17.43
165	-26.86	-13.34	-8.44	-6.47	-5.21	-3.15	-1.85	-2.38	-4.56	-6.25	-6.62	-9.12	-15.75
180	-26.38	-12.76	-8.30	-6.40	-5.17	-2.97	-1.63	-2.16	-4.48	-6.02	-6.28	-8.75	-15.44
195	-26.88	-12.72	-8.26	-6.43	-5.28	-2.95	-1.56	-2.13	-4.34	-5.84	-6.09	-8.44	-15.18
210	-27.09	-12.78	-8.39	-6.47	-5.28	-2.95	-1.58	-2.11	-4.33	-5.84	-6.06	-8.44	-15.15
225	-28.57	-13.27	-8.47	-6.68	-5.54	-3.10	-1.62	-2.13	-4.35	-6.00	-6.28	-8.81	-15.94
240	-30.12	-13.76	-8.91	-6.88	-5.61	-3.18	-1.74	-2.37	-4.58	-6.06	-6.44	-8.99	-16.33
255	-30.48	-14.29	-9.20	-7.21	-5.87	-3.42	-2.00	-2.62	-4.85	-6.55	-7.03	-9.78	-18.23
270	-28.53	-14.59	-9.33	-7.35	-6.02	-3.50	-2.10	-2.74	-5.01	-6.87	-7.18	-10.05	-18.85
285	-27.81	-14.69	-9.45	-7.38	-5.95	-3.55	-2.25	-3.06	-5.36	-6.99	-7.73	-10.63	-21.74
300	-25.39	-14.81	-9.46	-7.20	-5.67	-3.41	-2.33	-3.17	-5.44	-7.17	-7.80	-11.02	-22.76
315	-24.76	-14.73	-9.38	-7.02	-5.50	-3.31	-2.32	-3.15	-5.49	-7.16	-7.95	-11.51	-26.30
330	-23.86	-14.50	-9.02	-6.55	-5.12	-3.10	-2.15	-3.14	-5.45	-7.14	-7.98	-11.60	-28.29
345	-23.34	-14.52	-8.90	-6.20	-4.73	-2.87	-2.11	-2.98	-5.33	-7.01	-8.09	-11.87	-30.21
360	-21.72	-14.61	-8.62	-5.88	-4.27	-2.61	-1.95	-2.91	-5.15	-7.02	-8.20	-12.35	-31.50
Avg.	-24.23	-14.53	-9.11	-6.68	-5.23	-3.23	-2.16	-2.86	-5.13	-6.94	-7.64	-10.72	-19.87
Peak Value		-1.562		Minimum Value		-42.814							

Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-17.56	-18.40	-20.75	-28.09	-27.83	-19.14	-18.48	-21.39	-21.33	-21.08	-23.73	-23.98	-21.70
15	-16.22	-17.43	-19.89	-24.29	-25.52	-21.18	-21.90	-22.73	-20.16	-20.60	-24.23	-25.43	-23.12
30	-15.04	-16.16	-19.14	-22.01	-23.22	-21.34	-22.86	-22.35	-18.97	-18.53	-23.87	-30.04	-27.15
45	-13.71	-15.55	-16.18	-18.72	-19.24	-18.45	-19.79	-19.14	-16.90	-17.74	-23.03	-35.23	-34.10
60	-13.27	-14.22	-15.38	-15.05	-15.24	-17.35	-16.30	-16.15	-13.97	-15.64	-21.28	-30.21	-33.32
75	-11.82	-12.99	-13.27	-14.27	-13.67	-15.10	-15.12	-12.91	-13.28	-14.41	-20.08	-24.02	-27.30
90	-11.21	-12.20	-12.69	-12.50	-13.15	-13.62	-13.37	-12.16	-11.66	-14.04	-17.83	-22.82	-24.46
105	-11.02	-11.26	-11.61	-11.87	-12.53	-12.71	-11.96	-11.00	-11.36	-13.25	-17.55	-21.08	-23.02
120	-11.01	-11.09	-11.43	-11.87	-12.57	-12.95	-11.83	-10.87	-11.03	-13.09	-16.89	-19.85	-22.36
135	-11.19	-11.28	-11.55	-12.00	-12.88	-13.28	-12.23	-11.72	-11.44	-13.17	-17.04	-19.92	-22.15
150	-11.84	-11.44	-11.77	-12.54	-13.88	-15.70	-13.26	-12.64	-11.90	-14.26	-17.35	-20.40	-24.11
165	-12.13	-12.02	-12.31	-13.99	-16.55	-16.84	-16.93	-14.05	-13.19	-15.67	-18.57	-23.42	-25.38
180	-13.48	-13.16	-13.43	-14.48	-17.49	-24.06	-18.61	-16.49	-16.98	-16.74	-21.53	-25.59	-30.53
195	-14.06	-13.61	-13.95	-16.70	-22.32	-28.56	-32.04	-21.54	-18.58	-19.35	-25.19	-43.67	-38.83
210	-15.91	-14.73	-15.74	-17.44	-23.26	-32.49	-24.38	-34.69	-22.95	-22.61	-27.27	-34.92	-26.60
225	-17.23	-16.32	-16.32	-19.32	-25.84	-22.59	-20.83	-20.46	-20.82	-19.83	-24.64	-25.30	-24.16
240	-18.47	-16.95	-17.57	-22.95	-25.31	-16.85	-14.88	-18.07	-18.80	-18.74	-20.35	-20.77	-19.16
255	-18.94	-18.29	-19.39	-26.06	-23.62	-15.94	-12.71	-13.60	-14.75	-15.55	-16.84	-17.53	-18.39
270	-19.91	-18.68	-19.59	-26.96	-22.89	-13.70	-11.40	-12.86	-14.16	-15.06	-16.01	-16.69	-16.63
285	-19.84	-18.88	-19.94	-25.37	-21.18	-12.99	-11.15	-11.72	-13.42	-14.76	-16.03	-16.56	-16.39
300	-20.28	-18.91	-19.91	-23.69	-19.68	-12.92	-11.05	-11.91	-14.16	-15.10	-16.23	-17.06	-16.47
315	-20.18	-18.98	-19.73	-23.31	-19.56	-13.14	-11.84	-12.62	-14.74	-16.10	-17.31	-17.90	-16.99
330	-19.64	-19.04	-19.83	-23.69	-20.96	-14.70	-12.45	-15.33	-16.48	-18.92	-18.89	-19.39	-18.10
345	-19.27	-18.88	-20.32	-25.36	-22.15	-15.57	-15.46	-16.37	-18.78	-19.78	-21.92	-20.24	-18.71
360	-17.56	-18.40	-20.75	-28.09	-27.83	-19.14	-18.48	-21.39	-21.33	-21.08	-23.73	-23.98	-21.70
Avg.	-14.52	-14.65	-15.24	-16.54	-17.40	-15.89	-14.51	-14.55	-14.80	-16.25	-19.24	-21.13	-21.12
Peak Value	-10.870	Minimum Value -43.667											

RHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.37	-26.36	-14.09	-9.57	-6.78	-5.03	-4.79	-5.68	-7.52	-9.92	-12.28	-18.00	-25.66
15	-17.04	-26.89	-14.25	-9.43	-6.48	-4.72	-4.47	-5.43	-6.93	-9.56	-12.03	-17.68	-26.11
30	-15.57	-25.79	-14.44	-9.44	-6.41	-4.61	-4.34	-5.01	-6.60	-8.68	-11.30	-17.09	-29.55
45	-14.32	-25.06	-15.22	-9.57	-6.43	-4.50	-4.00	-4.62	-6.15	-8.49	-11.07	-16.13	-36.74
60	-13.97	-23.37	-16.03	-10.15	-6.62	-4.51	-3.89	-4.34	-5.51	-7.74	-10.47	-15.10	-35.41
75	-12.95	-22.15	-17.42	-10.66	-7.01	-4.76	-3.87	-4.08	-5.38	-7.30	-9.97	-13.77	-28.24
90	-12.97	-21.19	-19.06	-12.31	-7.79	-4.99	-4.05	-4.04	-5.12	-7.16	-9.15	-12.96	-23.25
105	-13.27	-21.34	-22.15	-13.82	-8.64	-5.82	-4.45	-4.25	-5.07	-6.75	-8.69	-12.03	-21.16
120	-13.54	-21.77	-23.98	-14.37	-9.94	-6.41	-4.60	-4.44	-5.22	-6.51	-8.12	-11.17	-18.71
135	-14.58	-24.91	-24.50	-15.14	-10.20	-6.69	-4.98	-4.89	-5.34	-6.48	-8.00	-10.92	-18.04
150	-15.53	-26.37	-22.73	-15.09	-10.43	-6.99	-5.17	-4.94	-5.46	-6.51	-7.72	-10.28	-17.56
165	-16.34	-32.07	-20.34	-13.92	-9.94	-6.94	-5.41	-5.11	-5.62	-6.76	-7.67	-10.66	-16.63
180	-18.39	-38.83	-18.33	-13.51	-9.71	-6.32	-5.09	-4.96	-6.13	-6.83	-7.91	-10.68	-17.41
195	-19.17	-34.44	-17.62	-12.32	-8.75	-6.11	-4.83	-5.07	-6.16	-7.19	-8.23	-11.44	-18.19
210	-21.65	-28.98	-16.27	-12.08	-8.50	-5.69	-4.55	-5.00	-6.40	-8.09	-9.28	-11.86	-20.71
225	-22.95	-26.03	-16.00	-11.66	-8.00	-5.47	-4.51	-4.84	-6.70	-8.91	-9.86	-13.22	-22.73
240	-24.02	-26.03	-15.91	-11.21	-7.79	-5.11	-4.29	-5.06	-7.04	-9.30	-10.87	-14.56	-26.50
255	-23.92	-24.03	-15.28	-11.26	-7.86	-5.29	-4.50	-5.26	-7.62	-10.81	-12.92	-17.35	-29.80
270	-25.32	-24.08	-15.22	-11.31	-8.00	-5.36	-4.66	-5.46	-7.90	-11.54	-13.72	-18.50	-27.54
285	-25.45	-22.91	-14.79	-11.12	-7.99	-5.60	-4.92	-6.11	-8.80	-12.35	-14.77	-19.73	-25.78
300	-25.79	-23.02	-14.70	-10.88	-7.99	-5.74	-5.40	-6.41	-9.14	-12.72	-14.83	-19.88	-25.07
315	-25.39	-23.28	-14.55	-10.72	-7.90	-5.79	-5.57	-6.58	-9.31	-12.64	-14.52	-19.84	-23.53
330	-22.86	-23.67	-14.20	-10.29	-7.75	-5.79	-5.41	-6.58	-9.10	-11.56	-13.84	-18.97	-23.68
345	-21.77	-25.34	-14.21	-9.93	-7.38	-5.52	-5.28	-6.25	-8.57	-11.03	-12.85	-18.89	-22.94
360	-18.37	-26.36	-14.09	-9.57	-6.78	-5.03	-4.79	-5.68	-7.52	-9.92	-12.28	-18.00	-25.66
Avg.	-17.10	-24.67	-16.42	-11.51	-8.11	-5.69	-4.86	-5.30	-6.76	-8.67	-10.41	-14.00	-21.91
Peak Value	-3.870	Minimum Value -38.831											

LHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-20.12	-13.30	-9.71	-8.25	-7.80	-6.08	-4.94	-6.04	-8.68	-9.80	-10.16	-13.35	-23.23
15	-19.57	-13.16	-9.58	-8.05	-7.74	-6.41	-5.34	-6.32	-9.48	-10.16	-10.45	-13.71	-25.18
30	-19.29	-12.76	-9.49	-7.98	-7.70	-6.53	-5.55	-6.78	-9.85	-11.31	-11.51	-14.82	-29.03
45	-18.43	-12.68	-8.99	-7.73	-7.65	-6.84	-6.03	-7.19	-10.71	-12.05	-11.81	-15.69	-35.42
60	-18.00	-12.20	-8.93	-7.21	-7.24	-6.84	-6.10	-7.49	-11.89	-13.71	-12.62	-16.78	-36.39
75	-16.35	-11.55	-8.30	-7.09	-6.85	-6.85	-6.12	-7.39	-12.10	-15.05	-13.38	-18.43	-32.84
90	-15.11	-11.05	-8.11	-6.59	-6.89	-6.44	-5.84	-7.26	-11.90	-15.65	-14.66	-18.13	-31.14
105	-14.44	-10.17	-7.55	-6.28	-6.51	-5.83	-5.15	-6.42	-11.40	-16.34	-14.39	-18.03	-29.88
120	-14.17	-9.94	-7.29	-6.24	-6.08	-5.46	-4.93	-5.84	-10.44	-15.86	-14.34	-17.46	-26.96
135	-13.64	-9.61	-7.31	-6.10	-6.06	-5.31	-4.51	-5.43	-9.73	-15.38	-14.00	-16.81	-25.80
150	-14.02	-9.59	-7.18	-6.18	-6.10	-5.18	-4.15	-5.18	-9.47	-13.64	-13.17	-15.07	-23.55
165	-13.97	-9.65	-7.15	-6.48	-6.54	-5.18	-4.14	-5.09	-9.08	-12.72	-12.15	-13.85	-21.10
180	-14.86	-9.95	-7.48	-6.57	-6.68	-5.60	-4.07	-5.07	-8.76	-11.97	-10.93	-12.96	-19.45
195	-15.34	-10.15	-7.64	-7.20	-7.72	-5.79	-4.32	-5.10	-8.55	-10.91	-10.05	-11.45	-18.15
210	-16.82	-10.70	-8.30	-7.42	-7.96	-6.25	-4.59	-5.24	-8.37	-9.56	-8.81	-11.05	-16.15
225	-18.16	-11.68	-8.53	-8.01	-9.08	-6.75	-4.66	-5.34	-7.91	-8.76	-8.67	-10.61	-16.21
240	-19.49	-12.23	-9.19	-8.72	-9.54	-7.14	-4.81	-5.47	-7.86	-8.43	-8.11	-10.01	-14.79
255	-20.18	-13.18	-9.91	-9.29	-10.02	-7.34	-4.82	-5.33	-7.27	-7.79	-7.75	-9.81	-15.46
270	-20.62	-13.53	-10.10	-9.50	-10.16	-7.02	-4.59	-5.24	-7.17	-7.78	-7.60	-9.74	-14.82
285	-20.37	-13.79	-10.44	-9.65	-9.88	-6.64	-4.56	-5.00	-6.90	-7.57	-7.95	-10.09	-15.68
300	-20.16	-13.88	-10.47	-9.46	-9.11	-6.20	-4.27	-4.98	-6.94	-7.71	-8.05	-10.53	-16.07
315	-19.98	-13.81	-10.42	-9.25	-8.85	-5.99	-4.27	-4.96	-7.02	-7.89	-8.43	-11.17	-17.47
330	-20.10	-13.60	-10.10	-8.79	-8.30	-5.86	-4.21	-5.30	-7.33	-8.65	-8.83	-11.67	-18.97
345	-20.08	-13.43	-9.99	-8.49	-7.96	-5.79	-4.60	-5.39	-7.76	-8.84	-9.59	-12.11	-20.31
360	-20.12	-13.30	-9.71	-8.25	-7.80	-6.08	-4.94	-6.04	-8.68	-9.80	-10.16	-13.35	-23.23
Avg.	-17.08	-11.80	-8.87	-7.80	-7.85	-6.35	-4.99	-5.89	-8.91	-10.45	-10.32	-12.78	-19.36
Peak Value	-4.068	Minimum Value -36.385											

AR													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	20.00	3.93	12.15	22.36	24.61	24.40	41.53	33.73	23.52	43.65	18.32	11.65	17.14
15	16.82	3.62	11.60	21.99	22.79	20.26	26.01	25.81	16.75	29.14	20.82	12.97	25.37
30	13.50	3.94	11.14	21.51	22.56	19.18	23.13	19.87	14.67	16.49	38.36	17.73	30.41
45	12.67	4.26	9.27	19.53	23.07	17.45	18.71	16.66	11.81	13.89	27.44	31.89	22.36
60	12.86	4.93	8.24	15.52	28.98	17.53	17.93	14.93	9.08	9.61	18.21	20.31	25.02
75	14.28	5.29	6.35	13.87	40.40	18.45	17.82	14.50	8.68	7.56	14.27	11.64	11.74
90	18.23	5.59	5.06	9.95	25.74	21.56	19.74	14.75	8.60	6.88	10.27	10.78	7.42
105	23.41	4.93	3.27	7.77	18.27	68.40	27.90	18.11	9.14	5.98	9.99	9.57	6.68
120	28.87	4.55	2.56	7.19	13.20	25.26	34.39	21.95	10.70	6.16	9.29	9.19	7.09
135	25.35	3.02	2.42	6.41	12.62	22.02	31.41	30.19	12.13	6.52	9.57	9.72	7.55
150	21.20	2.54	2.93	6.52	12.23	19.69	24.67	37.20	12.89	8.20	10.34	11.40	9.57
165	17.33	1.32	3.87	7.88	14.29	19.91	22.75	62.68	14.15	9.62	11.96	14.81	11.98
180	13.97	0.63	5.13	8.42	15.24	27.61	24.58	44.09	16.49	10.82	15.28	17.69	18.63
195	13.28	1.06	5.70	10.86	24.53	34.72	30.79	56.55	17.27	13.53	19.59	61.86	53.90
210	11.34	2.13	7.35	11.63	30.26	29.89	53.27	37.07	18.93	21.49	31.41	26.71	11.81
225	11.41	3.37	7.84	13.69	24.16	22.63	40.99	30.91	23.14	41.18	23.28	16.53	8.91
240	11.87	3.60	8.68	16.91	19.96	18.68	30.58	32.56	26.50	26.04	16.05	11.84	4.62
255	13.47	5.12	10.46	18.94	18.18	18.61	34.71	48.14	33.83	15.26	10.78	7.76	3.38
270	11.58	5.31	10.87	19.65	18.14	20.46	47.92	37.96	27.52	13.44	9.42	6.65	4.09
285	10.92	6.35	12.21	21.47	19.31	24.46	33.60	23.91	19.25	11.42	8.56	5.95	5.62
300	10.08	6.33	12.44	21.80	23.83	31.58	23.71	21.74	17.99	11.03	8.60	6.17	6.44
315	10.42	6.08	12.63	21.47	25.25	38.57	22.56	20.61	17.64	11.48	9.45	6.71	9.49
330	16.05	5.64	12.70	21.29	30.07	47.47	23.19	22.66	19.83	15.59	11.03	8.02	11.54
345	20.24	4.51	12.46	21.63	29.44	35.93	28.14	26.06	26.58	18.03	14.64	8.60	16.47
360	20.00	3.93	12.15	22.36	24.61	24.40	41.53	33.73	23.52	43.65	18.32	11.65	17.14
Avg.	19.29	4.18	9.34	18.19	28.47	54.46	41.02	49.86	23.00	31.82	25.85	47.89	39.96
Peak Value	68.397	Minimum Value 0.625											



516.3 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.05	-13.12	-8.29	-5.74	-4.15	-2.42	-1.75	-2.71	-4.87	-6.64	-7.89	-11.84	-21.08
15	-15.56	-13.07	-8.29	-5.57	-3.97	-2.36	-1.75	-2.73	-4.84	-6.60	-7.96	-12.04	-22.63
30	-13.98	-12.86	-8.23	-5.50	-3.91	-2.37	-1.78	-2.66	-4.74	-6.63	-8.09	-12.42	-25.96
45	-12.82	-12.41	-8.15	-5.45	-3.92	-2.42	-1.79	-2.57	-4.64	-6.62	-8.19	-12.64	-31.78
60	-12.44	-11.90	-8.04	-5.46	-3.90	-2.44	-1.78	-2.51	-4.54	-6.52	-8.22	-12.67	-37.56
75	-11.65	-11.20	-7.90	-5.43	-3.85	-2.45	-1.74	-2.38	-4.37	-6.54	-8.19	-12.38	-26.51
90	-10.81	-10.61	-7.67	-5.42	-4.07	-2.56	-1.69	-2.23	-4.22	-6.38	-7.92	-11.81	-22.41
105	-10.78	-9.96	-7.31	-5.60	-4.36	-2.76	-1.68	-2.09	-4.02	-6.13	-7.50	-10.84	-20.32
120	-10.72	-9.60	-7.24	-5.56	-4.43	-2.81	-1.64	-2.01	-3.94	-5.98	-7.24	-10.45	-18.74
135	-10.91	-9.54	-7.15	-5.57	-4.59	-2.87	-1.63	-2.02	-3.91	-5.77	-6.85	-9.77	-17.31
150	-11.51	-9.42	-6.99	-5.58	-4.70	-2.91	-1.59	-1.99	-3.85	-5.60	-6.45	-9.21	-16.45
165	-11.86	-9.55	-6.98	-5.63	-4.80	-2.90	-1.54	-1.96	-3.90	-5.52	-6.17	-8.82	-15.65
180	-12.67	-9.76	-6.94	-5.73	-4.89	-2.86	-1.43	-1.95	-3.97	-5.51	-6.02	-8.51	-15.25
195	-13.58	-10.04	-7.15	-5.88	-5.07	-2.88	-1.43	-1.94	-4.02	-5.53	-5.92	-8.37	-15.09
210	-14.62	-10.60	-7.44	-6.10	-5.18	-2.89	-1.45	-1.94	-4.06	-5.58	-5.92	-8.40	-15.14
225	-15.92	-11.15	-7.82	-6.39	-5.41	-2.94	-1.47	-1.97	-4.09	-5.60	-5.99	-8.47	-15.13
240	-17.37	-11.85	-8.18	-6.73	-5.55	-3.01	-1.47	-2.01	-4.13	-5.69	-6.16	-8.66	-14.98
255	-18.51	-12.68	-8.79	-7.08	-5.80	-3.13	-1.61	-2.22	-4.34	-5.96	-6.57	-9.17	-15.28
270	-18.97	-13.04	-8.88	-7.19	-5.83	-3.04	-1.55	-2.18	-4.30	-5.96	-6.56	-9.16	-14.90
285	-19.31	-13.27	-9.05	-7.22	-5.79	-3.04	-1.58	-2.27	-4.48	-6.14	-6.86	-9.54	-15.00
300	-19.20	-13.32	-9.00	-7.08	-5.57	-2.93	-1.64	-2.43	-4.65	-6.35	-7.10	-9.89	-15.51
315	-18.71	-13.32	-8.92	-6.83	-5.24	-2.79	-1.68	-2.57	-4.85	-6.51	-7.30	-10.25	-16.06
330	-18.33	-13.13	-8.68	-6.54	-4.92	-2.66	-1.73	-2.67	-4.94	-6.61	-7.48	-10.67	-17.09
345	-17.63	-13.15	-8.52	-6.20	-4.55	-2.55	-1.80	-2.74	-4.99	-6.58	-7.62	-11.11	-18.29
360	-16.05	-13.12	-8.29	-5.74	-4.15	-2.42	-1.75	-2.71	-4.87	-6.64	-7.89	-11.84	-21.08
Avg.	-13.93	-11.53	-8.10	-6.20	-4.90	-2.92	-1.81	-2.45	-4.52	-6.28	-7.19	-10.23	-17.44
Peak Value		-1.433		Minimum Value		-37.564							

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-22.10	-14.67	-8.55	-5.77	-4.17	-2.52	-1.84	-2.77	-4.97	-6.80	-7.99	-12.10	-30.02
15	-21.89	-14.79	-8.56	-5.63	-3.99	-2.43	-1.81	-2.77	-4.95	-6.77	-8.05	-12.22	-31.64
30	-21.25	-15.06	-8.59	-5.60	-3.96	-2.43	-1.82	-2.71	-4.91	-6.87	-8.18	-12.48	-32.93
45	-20.78	-15.34	-8.72	-5.65	-4.06	-2.51	-1.87	-2.68	-4.94	-6.98	-8.33	-12.66	-34.77
60	-20.64	-15.75	-8.90	-5.83	-4.15	-2.60	-1.90	-2.71	-5.00	-7.12	-8.44	-12.74	-40.18
75	-20.93	-15.93	-9.15	-6.03	-4.33	-2.71	-1.94	-2.72	-5.00	-7.24	-8.49	-12.56	-35.92
90	-21.74	-15.92	-9.32	-6.36	-4.65	-2.91	-2.01	-2.70	-5.03	-7.23	-8.36	-12.19	-26.80
105	-24.11	-15.50	-9.35	-6.65	-5.08	-3.21	-2.08	-2.68	-4.96	-7.09	-7.99	-11.30	-23.87
120	-24.86	-15.21	-9.33	-6.70	-5.18	-3.25	-2.08	-2.63	-4.92	-6.98	-7.77	-11.02	-21.33
135	-26.42	-14.52	-9.12	-6.68	-5.29	-3.28	-2.03	-2.52	-4.78	-6.69	-7.34	-10.25	-19.12
150	-27.19	-13.89	-8.78	-6.57	-5.26	-3.21	-1.90	-2.39	-4.63	-6.38	-6.85	-9.59	-17.36
165	-26.77	-13.34	-8.54	-6.44	-5.20	-3.08	-1.73	-2.25	-4.46	-6.10	-6.44	-9.06	-16.19
180	-26.81	-12.99	-8.23	-6.34	-5.14	-2.93	-1.52	-2.10	-4.32	-5.86	-6.15	-8.60	-15.40
195	-27.08	-12.70	-8.20	-6.34	-5.19	-2.89	-1.44	-1.99	-4.18	-5.73	-5.98	-8.39	-15.10
210	-27.79	-12.87	-8.30	-6.42	-5.25	-2.90	-1.46	-1.95	-4.12	-5.67	-5.93	-8.41	-15.26
225	-29.40	-13.06	-8.50	-6.63	-5.44	-2.99	-1.53	-1.99	-4.15	-5.72	-6.04	-8.56	-15.68
240	-31.55	-13.51	-8.72	-6.84	-5.59	-3.13	-1.62	-2.12	-4.29	-5.92	-6.33	-8.92	-16.40
255	-31.40	-14.32	-9.21	-7.16	-5.86	-3.37	-1.90	-2.47	-4.67	-6.37	-6.90	-9.71	-18.24
270	-30.67	-14.58	-9.28	-7.24	-5.91	-3.44	-1.98	-2.59	-4.80	-6.52	-7.08	-9.98	-18.99
285	-28.43	-14.79	-9.45	-7.29	-5.92	-3.48	-2.12	-2.80	-5.08	-6.80	-7.42	-10.50	-20.76
300	-26.90	-14.84	-9.40	-7.20	-5.74	-3.41	-2.21	-2.96	-5.23	-6.96	-7.63	-10.88	-22.64
315	-25.35	-14.81	-9.33	-6.94	-5.42	-3.22	-2.19	-3.02	-5.32	-6.98	-7.75	-11.20	-24.61
330	-24.32	-14.55	-9.06	-6.63	-5.05	-2.99	-2.11	-2.98	-5.24	-6.93	-7.79	-11.44	-27.30
345	-23.47	-14.50	-8.83	-6.26	-4.63	-2.78	-1.99	-2.93	-5.17	-6.79	-7.82	-11.66	-29.15
360	-22.10	-14.67	-8.55	-5.77	-4.17	-2.52	-1.84	-2.77	-4.97	-6.80	-7.99	-12.10	-30.02
Avg.	-24.48	-14.55	-9.05	-6.61	-5.15	-3.15	-2.05	-2.72	-4.96	-6.75	-7.47	-10.61	-19.85
Peak Value		-1.436		Minimum Value		-40.181							

Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-17.29	-18.37	-20.73	-28.35	-27.69	-18.98	-18.32	-21.33	-21.23	-21.23	-24.36	-24.15	-21.68
15	-16.71	-17.93	-20.43	-24.42	-28.00	-20.25	-20.13	-22.63	-20.69	-20.80	-24.82	-26.02	-23.22
30	-14.88	-16.86	-19.16	-22.06	-23.08	-21.37	-22.51	-22.02	-18.80	-19.25	-24.69	-31.05	-26.93
45	-13.58	-15.51	-17.31	-18.89	-19.16	-19.37	-19.39	-18.63	-16.50	-17.65	-23.32	-36.72	-34.81
60	-13.16	-14.22	-15.47	-16.38	-16.49	-17.06	-17.64	-15.90	-14.53	-15.44	-21.16	-30.33	-41.01
75	-12.19	-12.98	-13.88	-14.32	-13.62	-14.93	-15.05	-13.62	-13.06	-14.84	-20.04	-26.16	-27.04
90	-11.17	-12.12	-12.67	-12.55	-13.10	-13.59	-13.20	-12.05	-11.89	-13.85	-18.14	-22.59	-24.38
105	-10.99	-11.38	-11.57	-12.29	-12.50	-12.80	-12.18	-11.12	-11.14	-13.18	-17.24	-20.83	-22.84
120	-10.89	-10.99	-11.41	-11.91	-12.42	-12.95	-11.80	-10.77	-10.85	-12.85	-16.57	-19.54	-22.23
135	-11.03	-11.20	-11.52	-12.03	-12.89	-13.34	-12.22	-11.65	-11.29	-12.93	-16.61	-19.58	-22.00
150	-11.63	-11.34	-11.68	-12.48	-13.88	-14.69	-13.27	-12.59	-11.69	-13.48	-17.06	-20.04	-23.69
165	-12.01	-11.89	-12.19	-13.34	-15.40	-17.02	-15.31	-14.00	-13.04	-14.53	-18.36	-21.64	-24.97
180	-12.85	-12.56	-12.83	-14.51	-17.50	-20.47	-18.78	-16.49	-15.08	-16.54	-21.20	-25.27	-29.91
195	-13.78	-13.43	-13.86	-15.93	-20.51	-29.48	-33.56	-21.64	-18.35	-19.14	-24.80	-31.79	-39.47
210	-14.83	-14.51	-14.91	-17.53	-23.60	-31.31	-30.50	-34.17	-22.72	-22.37	-29.57	-35.08	-30.72
225	-16.12	-15.66	-16.21	-19.23	-26.15	-22.25	-20.51	-24.27	-22.64	-21.46	-24.80	-25.71	-24.43
240	-17.54	-16.82	-17.45	-22.83	-26.18	-18.39	-16.31	-17.73	-18.61	-18.56	-20.29	-20.91	-20.53
255	-18.74	-17.69	-19.10	-24.61	-24.64	-15.72	-13.52	-14.68	-15.73	-16.36	-17.90	-18.50	-18.35
270	-19.27	-18.29	-19.37	-26.68	-23.12	-13.63	-11.85	-12.69	-14.00	-15.07	-16.04	-16.78	-17.04
285	-19.88	-18.58	-19.62	-24.76	-20.92	-13.17	-10.91	-11.70	-13.38	-14.69	-16.00	-16.56	-16.33
300	-20.01	-18.63	-19.53	-22.79	-19.71	-12.81	-10.78	-11.82	-13.66	-15.20	-16.50	-16.77	-16.45
315	-19.78	-18.70	-19.41	-22.75	-19.32	-13.05	-11.28	-12.60	-14.75	-16.33	-17.39	-17.33	-16.72
330	-19.59	-18.66	-19.51	-23.35	-19.95	-14.02	-12.42	-14.26	-16.65	-18.06	-19.09	-18.57	-17.53
345	-18.94	-18.89	-20.17	-24.81	-22.23	-15.55	-15.34	-16.56	-18.91	-20.01	-21.11	-20.35	-18.66
360	-17.29	-18.37	-20.73	-28.35	-27.69	-18.98	-18.32	-21.33	-21.23	-21.23	-24.36	-24.15	-21.68
Avg.	-14.33	-14.54	-15.18	-16.56	-17.35	-15.79	-14.52	-14.56	-14.71	-16.15	-19.26	-21.01	-21.15
Peak Value	-10.767	Minimum Value -41.007											

RHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.23	-26.79	-13.99	-9.45	-6.68	-4.92	-4.66	-5.53	-7.31	-9.67	-12.01	-17.57	-25.98
15	-17.49	-27.57	-14.12	-9.34	-6.47	-4.71	-4.49	-5.27	-6.99	-9.30	-11.73	-17.21	-26.57
30	-15.56	-27.48	-14.40	-9.32	-6.33	-4.53	-4.20	-4.85	-6.42	-8.74	-11.25	-16.53	-29.62
45	-14.25	-25.91	-14.90	-9.46	-6.37	-4.42	-3.88	-4.43	-5.92	-8.25	-10.82	-15.73	-36.53
60	-13.89	-23.93	-15.75	-9.84	-6.49	-4.41	-3.82	-4.20	-5.52	-7.52	-10.24	-14.91	-38.85
75	-13.23	-22.44	-17.10	-10.56	-6.94	-4.52	-3.77	-3.98	-5.19	-7.36	-9.84	-13.99	-27.45
90	-12.68	-21.44	-18.79	-12.05	-7.51	-4.88	-3.87	-3.92	-5.00	-6.96	-9.13	-12.93	-22.89
105	-13.21	-21.59	-22.22	-13.22	-8.61	-5.51	-4.14	-3.98	-4.91	-6.60	-8.51	-11.81	-20.80
120	-13.39	-21.73	-24.10	-14.37	-9.39	-6.29	-4.46	-4.32	-4.96	-6.43	-8.11	-11.27	-19.24
135	-14.09	-23.96	-24.37	-15.11	-10.17	-6.58	-4.86	-4.73	-5.23	-6.28	-7.79	-10.73	-17.89
150	-15.22	-26.21	-22.73	-15.07	-10.38	-6.87	-5.13	-4.85	-5.27	-6.26	-7.52	-10.36	-17.35
165	-16.14	-31.02	-20.83	-14.35	-10.17	-6.82	-5.21	-4.92	-5.50	-6.37	-7.49	-10.28	-16.83
180	-17.47	-37.35	-18.94	-13.45	-9.67	-6.48	-4.95	-4.91	-5.73	-6.66	-7.75	-10.49	-17.30
195	-18.76	-34.61	-17.59	-12.61	-9.03	-6.02	-4.66	-4.89	-5.95	-7.06	-8.09	-10.90	-18.04
210	-19.96	-30.00	-16.78	-12.00	-8.49	-5.60	-4.54	-4.79	-6.19	-7.91	-8.73	-11.82	-19.86
225	-21.18	-27.01	-16.11	-11.68	-7.94	-5.33	-4.37	-4.75	-6.39	-8.28	-9.58	-12.86	-22.25
240	-22.29	-25.25	-15.67	-11.22	-7.93	-5.18	-4.24	-4.79	-6.72	-9.17	-10.81	-14.44	-26.08
255	-23.23	-25.14	-15.35	-11.36	-7.93	-5.23	-4.43	-5.13	-7.33	-10.33	-12.29	-16.63	-30.46
270	-24.09	-23.96	-15.18	-11.22	-7.94	-5.29	-4.46	-5.29	-7.70	-11.12	-13.58	-18.29	-29.17
285	-24.89	-22.97	-14.98	-10.99	-7.97	-5.43	-4.78	-5.84	-8.49	-12.03	-14.25	-19.40	-26.43
300	-25.01	-23.06	-14.66	-10.90	-7.97	-5.62	-5.11	-6.17	-8.88	-12.48	-14.43	-19.77	-25.23
315	-24.31	-23.21	-14.46	-10.66	-7.87	-5.70	-5.33	-6.45	-9.15	-12.31	-14.20	-19.66	-24.15
330	-23.23	-23.50	-14.24	-10.37	-7.66	-5.65	-5.38	-6.45	-8.86	-11.72	-13.53	-19.06	-23.08
345	-21.32	-24.50	-14.06	-10.02	-7.29	-5.41	-5.10	-6.21	-8.40	-10.73	-12.86	-18.38	-22.91
360	-18.23	-26.79	-13.99	-9.45	-6.68	-4.92	-4.66	-5.53	-7.31	-9.67	-12.01	-17.57	-25.98
Avg.	-16.88	-24.82	-16.38	-11.45	-8.06	-5.59	-4.73	-5.14	-6.56	-8.46	-10.20	-13.81	-21.85
Peak Value	-3.766	Minimum Value -38.850											

LHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-20.09	-13.31	-9.65	-8.16	-7.70	-6.01	-4.86	-5.93	-8.53	-9.64	-10.01	-13.18	-22.79
15	-20.00	-13.23	-9.60	-7.94	-7.56	-6.14	-5.04	-6.27	-8.92	-9.95	-10.32	-13.62	-24.88
30	-19.14	-13.01	-9.43	-7.84	-7.60	-6.44	-5.48	-6.67	-9.68	-10.77	-10.94	-14.56	-28.41
45	-18.35	-12.61	-9.19	-7.65	-7.58	-6.77	-5.98	-7.14	-10.58	-11.69	-11.62	-15.57	-33.55
60	-17.93	-12.19	-8.84	-7.43	-7.38	-6.82	-6.05	-7.43	-11.48	-13.39	-12.50	-16.61	-43.48
75	-16.80	-11.54	-8.45	-7.02	-6.77	-6.67	-6.01	-7.49	-11.99	-14.19	-13.20	-17.47	-33.64
90	-15.36	-10.98	-8.02	-6.49	-6.69	-6.38	-5.74	-7.13	-12.04	-15.42	-14.07	-18.23	-32.25
105	-14.47	-10.27	-7.45	-6.43	-6.41	-6.04	-5.32	-6.62	-11.36	-16.03	-14.35	-17.84	-30.12
120	-14.09	-9.87	-7.33	-6.17	-6.10	-5.39	-4.84	-5.85	-10.73	-16.11	-14.63	-18.06	-28.46
135	-13.75	-9.70	-7.23	-6.08	-6.00	-5.27	-4.44	-5.35	-9.73	-15.29	-13.98	-16.79	-26.38
150	-13.91	-9.51	-7.10	-6.10	-6.07	-5.15	-4.13	-5.16	-9.38	-14.16	-13.06	-15.56	-23.74
165	-13.89	-9.58	-7.16	-6.26	-6.30	-5.16	-3.97	-5.03	-9.01	-13.04	-11.99	-14.27	-21.87
180	-14.42	-9.77	-7.22	-6.53	-6.65	-5.33	-3.99	-5.01	-8.75	-11.83	-10.85	-12.87	-19.50
195	-15.16	-10.06	-7.56	-6.92	-7.30	-5.77	-4.23	-5.02	-8.45	-10.82	-9.98	-11.91	-18.15
210	-16.12	-10.65	-7.98	-7.39	-7.92	-6.23	-4.39	-5.12	-8.19	-9.39	-9.13	-11.05	-16.93
225	-17.45	-11.27	-8.51	-7.92	-8.96	-6.68	-4.60	-5.21	-7.96	-8.97	-8.48	-10.44	-16.07
240	-19.06	-12.05	-9.03	-8.64	-9.30	-7.06	-4.74	-5.26	-7.60	-8.28	-7.99	-9.99	-15.33
255	-20.30	-12.93	-9.87	-9.10	-9.92	-7.29	-4.82	-5.32	-7.37	-7.94	-7.92	-10.03	-15.42
270	-20.57	-13.40	-10.03	-9.38	-9.98	-6.97	-4.67	-5.09	-6.96	-7.53	-7.53	-9.72	-15.06
285	-20.71	-13.76	-10.33	-9.58	-9.82	-6.77	-4.41	-4.78	-6.67	-7.44	-7.73	-10.01	-15.32
300	-20.52	-13.81	-10.37	-9.41	-9.29	-6.29	-4.24	-4.82	-6.71	-7.57	-7.99	-10.36	-16.00
315	-20.12	-13.79	-10.35	-9.15	-8.68	-5.92	-4.14	-4.86	-6.87	-7.83	-8.30	-10.78	-16.80
330	-20.03	-13.54	-10.10	-8.86	-8.22	-5.70	-4.18	-5.02	-7.19	-8.21	-8.72	-11.35	-18.36
345	-20.05	-13.48	-9.94	-8.53	-7.85	-5.72	-4.53	-5.34	-7.63	-8.69	-9.16	-12.01	-20.12
360	-20.09	-13.31	-9.65	-8.16	-7.70	-6.01	-4.86	-5.93	-8.53	-9.64	-10.01	-13.18	-22.79
Avg.	-17.01	-11.74	-8.80	-7.73	-7.76	-6.30	-4.91	-5.80	-8.78	-10.32	-10.21	-12.74	-19.40
Peak Value		-3.975		Minimum Value		-43.478							

AR													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	19.45	3.74	12.23	22.61	24.66	24.00	38.73	32.73	23.04	53.97	18.82	12.13	14.81
15	16.89	3.37	11.88	21.86	24.03	21.66	29.98	24.79	19.11	28.46	21.82	13.82	20.25
30	13.84	3.32	11.10	21.40	22.73	19.21	22.64	19.62	14.62	18.68	34.91	18.92	23.15
45	12.71	3.82	9.97	19.69	23.14	17.42	18.37	16.22	11.64	14.18	26.75	40.60	15.39
60	12.83	4.60	8.46	17.21	25.89	17.21	17.89	14.70	9.61	9.75	17.77	20.19	11.69
75	13.87	5.09	6.74	13.92	40.33	18.16	17.81	14.01	8.57	8.54	14.39	14.08	9.32
90	16.29	5.38	5.18	10.18	26.47	21.30	19.41	14.77	8.31	6.90	11.15	10.58	6.15
105	22.76	4.84	3.21	8.58	18.00	30.41	23.41	16.43	8.99	6.11	9.79	9.52	6.19
120	27.98	4.53	2.54	7.13	14.57	25.67	33.31	21.14	9.88	5.92	8.90	8.59	6.27
135	34.18	3.41	2.43	6.41	12.57	22.44	32.35	28.95	11.92	6.44	9.32	9.49	6.87
150	22.48	2.56	2.90	6.47	12.29	20.12	24.79	34.82	12.68	7.41	10.22	10.72	9.06
165	17.81	1.48	3.65	7.23	13.17	20.41	22.95	44.22	13.99	8.72	11.92	12.94	11.00
180	15.20	0.73	4.61	8.44	15.29	23.60	25.21	45.03	15.28	10.78	15.06	17.32	17.99
195	13.80	1.03	5.67	9.99	20.05	36.77	32.18	42.69	16.90	13.42	19.29	24.73	43.49
210	13.25	1.88	6.61	11.72	29.77	28.79	41.35	34.46	18.82	21.42	32.74	27.08	15.55
225	13.50	2.86	7.71	13.41	24.66	22.16	37.34	31.49	20.89	28.04	23.95	17.18	9.34
240	14.71	3.86	8.76	16.62	22.09	19.33	30.91	31.28	25.85	25.88	15.88	12.02	5.19
255	15.53	4.35	10.30	17.78	18.84	18.58	33.13	39.07	53.68	17.27	12.17	8.81	3.11
270	13.99	5.31	10.81	19.57	18.63	20.36	38.43	38.83	27.38	13.82	9.50	6.80	3.47
285	12.54	6.28	11.65	21.78	19.49	22.23	33.49	24.29	19.67	11.76	8.91	6.14	4.97
300	11.94	6.24	12.33	21.34	22.40	28.21	25.94	22.19	18.13	11.20	9.00	6.12	6.26
315	12.52	6.11	12.68	21.21	26.58	37.94	23.30	20.77	17.68	11.95	9.70	6.54	7.97
330	14.78	5.72	12.62	21.25	29.83	51.18	23.27	21.74	20.39	14.00	11.38	7.60	11.53
345	22.71	5.02	12.65	21.34	29.87	34.99	29.61	26.06	27.13	18.65	13.57	9.09	15.96
360	19.45	3.74	12.23	22.61	24.66	24.00	38.73	32.73	23.04	53.97	18.82	12.13	14.81
Avg.	22.45	4.07	9.33	18.12	28.34	37.79	32.90	36.26	39.74	40.03	24.03	27.08	29.63
Peak Value		53.968		Minimum Value		0.726							

517.6 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.46	-11.59	-6.99	-4.44	-2.86	-1.13	-0.42	-1.36	-3.48	-5.19	-6.46	-10.38	-19.32
15	-13.84	-11.56	-6.97	-4.32	-2.67	-1.07	-0.42	-1.38	-3.44	-5.17	-6.51	-10.56	-20.98
30	-12.24	-11.39	-6.90	-4.21	-2.61	-1.09	-0.48	-1.33	-3.34	-5.17	-6.67	-10.98	-24.52
45	-11.06	-10.97	-6.85	-4.17	-2.61	-1.12	-0.47	-1.24	-3.25	-5.17	-6.76	-11.20	-30.49
60	-10.62	-10.35	-6.70	-4.16	-2.58	-1.10	-0.46	-1.15	-3.13	-5.02	-6.77	-11.17	-34.68
75	-9.85	-9.60	-6.54	-4.10	-2.51	-1.14	-0.38	-1.00	-2.96	-5.03	-6.70	-10.89	-24.11
90	-9.01	-8.96	-6.29	-4.03	-2.72	-1.22	-0.35	-0.85	-2.76	-4.86	-6.49	-10.31	-20.44
105	-8.93	-8.30	-5.89	-4.21	-3.01	-1.40	-0.31	-0.70	-2.57	-4.62	-6.05	-9.43	-18.57
120	-8.89	-7.92	-5.75	-4.17	-3.07	-1.46	-0.27	-0.61	-2.42	-4.48	-5.75	-8.95	-17.02
135	-9.04	-7.90	-5.65	-4.18	-3.25	-1.55	-0.25	-0.63	-2.45	-4.27	-5.39	-8.33	-15.67
150	-9.63	-7.80	-5.53	-4.21	-3.39	-1.60	-0.24	-0.61	-2.41	-4.16	-5.06	-7.81	-14.97
165	-9.99	-7.92	-5.54	-4.24	-3.51	-1.60	-0.20	-0.59	-2.47	-4.09	-4.79	-7.46	-14.31
180	-10.66	-8.16	-5.53	-4.37	-3.63	-1.58	-0.10	-0.58	-2.56	-4.07	-4.63	-7.21	-13.97
195	-11.70	-8.54	-5.75	-4.54	-3.81	-1.62	-0.11	-0.58	-2.63	-4.12	-4.57	-7.08	-13.96
210	-12.70	-9.05	-6.07	-4.80	-3.95	-1.64	-0.14	-0.60	-2.68	-4.20	-4.59	-7.10	-13.92
225	-14.01	-9.69	-6.47	-5.12	-4.19	-1.67	-0.14	-0.61	-2.72	-4.24	-4.68	-7.20	-13.91
240	-15.25	-10.42	-6.87	-5.47	-4.31	-1.73	-0.14	-0.65	-2.69	-4.27	-4.80	-7.35	-13.69
255	-16.35	-11.24	-7.45	-5.81	-4.57	-1.83	-0.23	-0.83	-2.90	-4.50	-5.19	-7.83	-13.82
270	-17.01	-11.57	-7.61	-5.90	-4.58	-1.71	-0.17	-0.79	-2.86	-4.50	-5.20	-7.81	-13.45
285	-17.12	-11.84	-7.77	-5.92	-4.49	-1.71	-0.18	-0.86	-3.02	-4.69	-5.44	-8.15	-13.42
300	-17.02	-11.82	-7.67	-5.76	-4.31	-1.58	-0.24	-1.01	-3.20	-4.90	-5.69	-8.42	-13.80
315	-16.88	-11.76	-7.60	-5.48	-3.94	-1.45	-0.28	-1.16	-3.40	-5.04	-5.91	-8.83	-14.31
330	-16.38	-11.71	-7.34	-5.21	-3.60	-1.33	-0.33	-1.29	-3.53	-5.14	-6.07	-9.21	-15.32
345	-15.85	-11.72	-7.17	-4.87	-3.27	-1.22	-0.44	-1.37	-3.55	-5.14	-6.19	-9.61	-16.64
360	-14.46	-11.59	-6.99	-4.44	-2.86	-1.13	-0.42	-1.36	-3.48	-5.19	-6.46	-10.38	-19.32
Avg.	-12.07	-9.98	-6.73	-4.87	-3.60	-1.61	-0.46	-1.08	-3.09	-4.83	-5.79	-8.84	-15.96
Peak Value		-0.101		Minimum Value		-34.680							

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-21.40	-13.41	-7.28	-4.47	-2.88	-1.24	-0.53	-1.43	-3.60	-5.34	-6.55	-10.65	-27.87
15	-21.07	-13.50	-7.28	-4.38	-2.69	-1.15	-0.49	-1.43	-3.57	-5.36	-6.60	-10.74	-29.55
30	-20.41	-13.86	-7.30	-4.31	-2.67	-1.16	-0.53	-1.39	-3.55	-5.44	-6.76	-11.03	-31.01
45	-19.91	-14.26	-7.47	-4.39	-2.75	-1.22	-0.56	-1.37	-3.60	-5.58	-6.90	-11.21	-33.09
60	-19.78	-14.50	-7.65	-4.56	-2.86	-1.27	-0.60	-1.39	-3.65	-5.72	-7.02	-11.26	-36.34
75	-19.94	-14.75	-7.92	-4.76	-3.04	-1.43	-0.62	-1.39	-3.69	-5.82	-7.04	-11.10	-32.75
90	-20.72	-14.75	-8.10	-5.05	-3.37	-1.63	-0.71	-1.39	-3.70	-5.87	-6.97	-10.74	-25.10
105	-22.84	-14.26	-8.14	-5.39	-3.82	-1.91	-0.78	-1.35	-3.63	-5.71	-6.59	-9.97	-22.44
120	-23.63	-13.98	-8.08	-5.44	-3.92	-1.97	-0.77	-1.31	-3.55	-5.63	-6.37	-9.60	-19.99
135	-25.16	-13.34	-7.85	-5.42	-4.03	-2.01	-0.70	-1.19	-3.44	-5.33	-5.95	-8.90	-17.68
150	-26.15	-12.66	-7.54	-5.31	-4.02	-1.93	-0.57	-1.06	-3.30	-5.05	-5.52	-8.24	-16.11
165	-26.19	-12.14	-7.30	-5.14	-3.95	-1.79	-0.40	-0.90	-3.11	-4.76	-5.11	-7.73	-15.00
180	-25.82	-11.74	-6.97	-5.07	-3.91	-1.66	-0.18	-0.75	-2.95	-4.48	-4.79	-7.31	-14.19
195	-26.27	-11.56	-6.93	-5.06	-3.96	-1.63	-0.11	-0.63	-2.81	-4.34	-4.64	-7.11	-13.98
210	-27.38	-11.64	-7.06	-5.17	-4.02	-1.65	-0.15	-0.60	-2.75	-4.30	-4.62	-7.11	-14.04
225	-29.35	-11.93	-7.25	-5.38	-4.22	-1.73	-0.20	-0.64	-2.79	-4.36	-4.74	-7.29	-14.56
240	-31.47	-12.44	-7.52	-5.59	-4.35	-1.88	-0.32	-0.79	-2.87	-4.53	-4.99	-7.64	-15.25
255	-31.45	-13.18	-7.96	-5.90	-4.63	-2.12	-0.56	-1.12	-3.26	-4.97	-5.56	-8.43	-17.12
270	-30.41	-13.45	-8.10	-5.96	-4.67	-2.17	-0.67	-1.26	-3.40	-5.14	-5.76	-8.74	-17.91
285	-28.41	-13.64	-8.27	-6.02	-4.65	-2.22	-0.80	-1.44	-3.67	-5.41	-6.06	-9.20	-19.63
300	-26.11	-13.65	-8.17	-5.91	-4.50	-2.12	-0.88	-1.61	-3.84	-5.56	-6.27	-9.53	-21.42
315	-24.66	-13.49	-8.09	-5.63	-4.15	-1.93	-0.85	-1.66	-3.91	-5.54	-6.37	-9.84	-23.22
330	-23.68	-13.39	-7.78	-5.33	-3.75	-1.70	-0.76	-1.63	-3.84	-5.47	-6.39	-10.03	-25.57
345	-22.77	-13.36	-7.54	-4.94	-3.36	-1.47	-0.65	-1.57	-3.73	-5.34	-6.39	-10.20	-26.95
360	-21.40	-13.41	-7.28	-4.47	-2.88	-1.24	-0.53	-1.43	-3.60	-5.34	-6.55	-10.65	-27.87
Avg.	-23.64	-13.36	-7.81	-5.34	-3.89	-1.87	-0.73	-1.39	-3.59	-5.36	-6.10	-9.27	-18.63
Peak Value		-0.108		Minimum Value		-36.340							

Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-15.44	-16.26	-18.80	-26.73	-25.84	-17.08	-16.49	-19.60	-19.34	-19.80	-23.06	-22.54	-19.97
15	-14.75	-16.01	-18.56	-22.93	-26.38	-18.43	-18.19	-20.68	-18.66	-19.05	-23.51	-24.53	-21.63
30	-12.95	-15.02	-17.49	-20.47	-21.24	-18.90	-20.31	-19.78	-16.61	-17.40	-23.39	-30.41	-25.63
45	-11.66	-13.72	-15.66	-17.31	-17.34	-17.32	-17.21	-16.43	-14.39	-15.64	-21.63	-36.72	-33.95
60	-11.18	-12.46	-13.79	-14.73	-14.64	-15.11	-15.59	-13.88	-12.54	-13.28	-19.30	-28.26	-39.66
75	-10.30	-11.18	-12.18	-12.66	-11.89	-13.03	-13.05	-11.66	-11.07	-12.78	-17.97	-24.14	-24.75
90	-9.32	-10.30	-10.96	-10.84	-11.32	-11.69	-11.36	-10.15	-9.86	-11.72	-16.27	-20.47	-22.25
105	-9.11	-9.57	-9.82	-10.46	-10.69	-10.96	-10.25	-9.25	-9.20	-11.15	-15.30	-18.74	-20.87
120	-9.04	-9.15	-9.55	-10.15	-10.57	-11.03	-9.96	-8.91	-8.83	-10.83	-14.49	-17.49	-20.06
135	-9.15	-9.36	-9.65	-10.24	-11.13	-11.53	-10.37	-9.79	-9.33	-10.92	-14.56	-17.41	-19.98
150	-9.73	-9.51	-9.85	-10.71	-12.11	-12.92	-11.51	-10.70	-9.75	-11.47	-15.04	-18.04	-21.37
165	-10.10	-9.99	-10.30	-11.51	-13.63	-15.29	-13.59	-12.23	-11.10	-12.53	-16.29	-19.55	-22.65
180	-10.79	-10.67	-11.04	-12.64	-15.74	-18.81	-17.26	-14.67	-13.21	-14.52	-18.95	-23.29	-27.00
195	-11.86	-11.55	-11.98	-14.04	-18.62	-27.59	-32.70	-19.93	-16.50	-17.04	-22.77	-29.42	-37.54
210	-12.85	-12.54	-12.99	-15.63	-21.63	-28.78	-27.73	-31.40	-20.45	-20.49	-27.51	-34.76	-29.66
225	-14.14	-13.63	-14.33	-17.50	-25.14	-20.27	-18.20	-22.07	-20.65	-19.65	-23.09	-23.98	-22.46
240	-15.35	-14.70	-15.42	-21.15	-24.89	-16.39	-14.24	-15.73	-16.54	-16.63	-18.57	-19.27	-18.87
255	-16.49	-15.68	-17.00	-22.94	-23.24	-13.85	-11.57	-12.72	-13.80	-14.46	-16.00	-16.69	-16.56
270	-17.22	-16.11	-17.32	-24.50	-21.26	-11.65	-9.88	-10.73	-12.15	-13.15	-14.37	-14.94	-15.37
285	-17.46	-16.54	-17.43	-22.28	-19.00	-11.24	-8.98	-9.85	-11.57	-12.88	-14.23	-14.86	-14.61
300	-17.59	-16.47	-17.26	-20.45	-17.95	-10.91	-8.86	-9.95	-11.82	-13.42	-14.73	-14.90	-14.62
315	-17.67	-16.58	-17.33	-20.30	-17.34	-11.19	-9.35	-10.79	-12.99	-14.71	-15.92	-15.64	-14.91
330	-17.28	-16.64	-17.47	-21.04	-18.11	-12.18	-10.59	-12.52	-15.09	-16.53	-17.55	-16.86	-15.75
345	-16.84	-16.75	-18.15	-22.68	-20.23	-13.76	-13.68	-14.93	-17.49	-18.61	-19.79	-18.62	-17.07
360	-15.44	-16.26	-18.80	-26.73	-25.84	-17.08	-16.49	-19.60	-19.34	-19.80	-23.06	-22.54	-19.97
Avg.	-12.39	-12.65	-13.34	-14.76	-15.55	-13.91	-12.62	-12.68	-12.78	-14.20	-17.42	-19.17	-19.34
Peak Value	-8.825	Minimum Value -39.659											

RHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.84	-27.29	-12.90	-8.17	-5.38	-3.52	-3.24	-4.10	-5.84	-8.12	-10.54	-16.15	-24.31
15	-15.89	-28.40	-13.05	-8.15	-5.16	-3.32	-3.06	-3.85	-5.47	-7.75	-10.25	-15.72	-25.18
30	-13.94	-29.85	-13.37	-8.13	-5.04	-3.12	-2.81	-3.43	-4.89	-7.16	-9.74	-15.00	-29.09
45	-12.67	-26.39	-14.08	-8.31	-5.05	-3.05	-2.48	-3.01	-4.41	-6.66	-9.26	-14.26	-35.43
60	-12.20	-23.54	-15.10	-8.77	-5.22	-3.05	-2.44	-2.77	-4.01	-5.88	-8.68	-13.25	-35.48
75	-11.57	-20.97	-16.69	-9.55	-5.74	-3.20	-2.37	-2.54	-3.71	-5.73	-8.21	-12.40	-24.88
90	-11.01	-19.73	-18.61	-11.11	-6.32	-3.57	-2.52	-2.51	-3.48	-5.33	-7.59	-11.32	-20.93
105	-11.42	-19.63	-23.15	-12.49	-7.48	-4.20	-2.79	-2.59	-3.41	-5.00	-6.95	-10.28	-19.06
120	-11.62	-19.39	-25.86	-13.75	-8.32	-5.08	-3.16	-2.96	-3.40	-4.85	-6.51	-9.68	-17.48
135	-12.23	-21.03	-25.45	-14.62	-9.14	-5.36	-3.56	-3.40	-3.74	-4.71	-6.22	-9.17	-16.17
150	-13.30	-22.83	-23.05	-14.50	-9.47	-5.69	-3.87	-3.49	-3.82	-4.73	-6.02	-8.87	-15.73
165	-14.09	-25.71	-20.74	-13.63	-9.21	-5.61	-3.93	-3.58	-4.04	-4.85	-6.00	-8.83	-15.36
180	-15.25	-29.32	-18.35	-12.66	-8.65	-5.25	-3.65	-3.57	-4.29	-5.14	-6.25	-9.14	-15.81
195	-16.57	-31.28	-16.97	-11.72	-7.96	-4.76	-3.32	-3.53	-4.56	-5.54	-6.66	-9.58	-16.86
210	-17.62	-29.16	-16.11	-11.08	-7.36	-4.30	-3.19	-3.40	-4.73	-6.45	-7.36	-10.46	-18.59
225	-18.75	-26.86	-15.29	-10.65	-6.77	-3.99	-2.95	-3.34	-4.96	-6.85	-8.29	-11.67	-21.52
240	-19.71	-24.70	-14.88	-10.11	-6.69	-3.80	-2.82	-3.34	-5.18	-7.65	-9.48	-13.28	-25.18
255	-20.43	-24.14	-14.30	-10.21	-6.68	-3.85	-2.95	-3.65	-5.79	-8.81	-11.08	-15.68	-28.97
270	-21.48	-22.63	-14.12	-9.99	-6.63	-3.85	-2.97	-3.82	-6.17	-9.64	-12.40	-17.59	-26.85
285	-21.92	-21.33	-13.81	-9.75	-6.64	-3.98	-3.26	-4.33	-6.97	-10.61	-13.09	-18.50	-24.15
300	-22.23	-21.38	-13.41	-9.55	-6.66	-4.16	-3.62	-4.65	-7.37	-11.06	-13.31	-18.93	-22.87
315	-22.29	-21.60	-13.16	-9.34	-6.53	-4.26	-3.84	-4.98	-7.64	-10.88	-12.86	-18.55	-22.04
330	-21.16	-22.06	-12.91	-9.09	-6.31	-4.24	-3.88	-5.01	-7.44	-10.20	-12.18	-17.86	-21.28
345	-19.63	-23.62	-12.81	-8.70	-5.96	-3.97	-3.65	-4.79	-6.88	-9.27	-11.40	-17.04	-21.56
360	-16.84	-27.29	-12.90	-8.17	-5.38	-3.52	-3.24	-4.10	-5.84	-8.12	-10.54	-16.15	-24.31
Avg.	-15.04	-23.26	-15.45	-10.34	-6.83	-4.24	-3.33	-3.73	-5.07	-6.92	-8.73	-12.39	-20.29
Peak Value	-2.369	Minimum Value -35.484											

LHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.21	-11.71	-8.27	-6.83	-6.43	-4.87	-3.63	-4.66	-7.26	-8.28	-8.61	-11.72	-20.98
15	-18.08	-11.65	-8.20	-6.64	-6.28	-5.00	-3.83	-5.00	-7.72	-8.67	-8.90	-12.14	-23.06
30	-17.14	-11.45	-8.01	-6.47	-6.28	-5.36	-4.31	-5.49	-8.57	-9.53	-9.62	-13.17	-26.39
45	-16.13	-11.10	-7.76	-6.28	-6.27	-5.56	-4.78	-5.99	-9.55	-10.55	-10.35	-14.15	-32.17
60	-15.77	-10.57	-7.38	-6.00	-6.00	-5.51	-4.84	-6.22	-10.45	-12.49	-11.25	-15.38	-42.40
75	-14.71	-9.92	-6.98	-5.56	-5.31	-5.36	-4.72	-6.25	-10.97	-13.31	-12.03	-16.21	-31.99
90	-13.35	-9.34	-6.55	-4.98	-5.22	-5.01	-4.40	-5.83	-10.93	-14.80	-13.00	-17.13	-30.11
105	-12.54	-8.63	-5.97	-4.91	-4.93	-4.63	-3.94	-5.21	-10.11	-15.35	-13.32	-16.91	-28.30
120	-12.19	-8.24	-5.79	-4.68	-4.61	-3.94	-3.41	-4.40	-9.37	-15.41	-13.67	-17.02	-26.91
135	-11.89	-8.11	-5.69	-4.59	-4.55	-3.87	-2.98	-3.90	-8.32	-14.46	-12.98	-15.84	-25.29
150	-12.07	-7.94	-5.61	-4.63	-4.62	-3.74	-2.70	-3.75	-7.99	-13.26	-12.06	-14.46	-22.94
165	-12.13	-7.99	-5.67	-4.77	-4.87	-3.79	-2.58	-3.62	-7.65	-12.03	-10.92	-13.14	-21.00
180	-12.51	-8.20	-5.77	-5.07	-5.28	-4.02	-2.63	-3.61	-7.40	-10.69	-9.69	-11.65	-18.59
195	-13.41	-8.56	-6.09	-5.46	-5.93	-4.51	-2.92	-3.65	-7.10	-9.64	-8.75	-10.67	-17.09
210	-14.39	-9.10	-6.52	-5.96	-6.59	-5.03	-3.11	-3.82	-6.93	-8.13	-7.86	-9.79	-15.73
225	-15.79	-9.77	-7.08	-6.55	-7.67	-5.52	-3.35	-3.92	-6.66	-7.68	-7.16	-9.12	-14.74
240	-17.17	-10.58	-7.62	-7.29	-8.06	-5.94	-3.52	-4.01	-6.29	-6.94	-6.61	-8.63	-14.01
255	-18.51	-11.47	-8.46	-7.78	-8.72	-6.13	-3.55	-4.04	-6.02	-6.52	-6.48	-8.60	-13.95
270	-18.94	-11.93	-8.71	-8.04	-8.82	-5.80	-3.41	-3.79	-5.59	-6.09	-6.12	-8.29	-13.65
285	-18.87	-12.36	-9.02	-8.24	-8.58	-5.61	-3.13	-3.45	-5.25	-5.98	-6.26	-8.57	-13.80
300	-18.58	-12.34	-9.01	-8.10	-8.11	-5.08	-2.91	-3.48	-5.30	-6.11	-6.52	-8.82	-14.37
315	-18.35	-12.23	-9.02	-7.78	-7.43	-4.67	-2.79	-3.49	-5.45	-6.35	-6.89	-9.32	-15.11
330	-18.14	-12.13	-8.75	-7.50	-6.93	-4.45	-2.86	-3.70	-5.79	-6.76	-7.29	-9.85	-16.60
345	-18.21	-12.01	-8.56	-7.19	-6.63	-4.50	-3.27	-4.01	-6.27	-7.25	-7.76	-10.48	-18.33
360	-18.21	-11.71	-8.27	-6.83	-6.43	-4.87	-3.63	-4.66	-7.26	-8.28	-8.61	-11.72	-20.98
Avg.	-15.13	-10.19	-7.36	-6.32	-6.40	-5.03	-3.61	-4.47	-7.46	-9.01	-8.87	-11.37	-17.97
Peak Value		-2.585		Minimum Value		-42.401							

AR													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	22.03	2.92	11.70	22.30	24.34	22.24	33.09	29.80	21.81	40.46	19.14	12.05	14.45
15	18.06	2.55	11.29	21.25	23.82	20.29	27.11	23.59	17.80	25.50	22.18	13.83	18.34
30	14.79	2.10	10.49	20.43	22.95	17.87	21.28	18.56	13.63	17.35	43.35	19.57	16.22
45	14.13	3.02	9.17	18.69	23.07	16.85	17.59	15.40	10.82	13.14	23.99	43.70	14.64
60	13.86	3.97	7.60	16.04	26.96	17.04	17.25	14.15	9.01	8.80	16.68	18.28	8.44
75	14.95	5.00	5.89	12.95	32.13	18.14	17.41	13.54	8.06	7.72	13.30	13.31	8.23
90	17.47	5.42	4.43	9.40	23.95	21.67	19.33	14.47	7.87	6.07	10.40	9.82	6.30
105	23.84	5.04	2.42	7.73	16.71	32.06	23.62	16.49	8.69	5.45	9.09	8.78	6.26
120	29.63	4.94	1.73	6.39	13.55	23.72	36.97	21.65	9.62	5.31	8.18	7.99	6.11
135	34.12	3.99	1.79	5.67	11.76	21.35	29.50	30.80	11.78	5.87	8.62	8.73	6.35
150	23.02	3.16	2.35	5.79	11.30	19.06	23.51	36.61	12.55	6.84	9.53	10.13	8.12
165	18.97	2.27	3.10	6.56	12.23	19.64	22.22	54.79	13.78	8.14	11.18	12.29	10.07
180	16.12	1.53	4.16	7.72	14.35	23.00	24.69	51.73	15.05	10.20	14.17	16.84	15.99
195	14.91	1.27	5.10	9.23	18.70	36.92	32.60	43.42	16.76	12.70	18.45	23.99	37.51
210	14.70	1.73	5.99	10.86	27.04	27.47	47.85	32.31	17.99	20.32	30.77	28.29	15.74
225	15.44	2.45	7.12	12.72	25.80	21.13	32.90	29.65	20.22	26.40	23.71	16.72	8.60
240	16.78	3.47	8.05	15.85	22.09	18.20	27.90	28.23	23.90	27.67	15.71	11.66	4.93
255	19.14	4.12	9.78	17.13	18.64	17.68	29.21	33.02	37.49	17.66	11.74	8.27	3.12
270	16.77	5.22	10.42	19.04	18.05	19.03	31.87	53.75	29.52	13.91	9.20	6.21	3.86
285	15.21	6.47	11.41	21.26	19.06	20.58	42.10	25.84	20.11	11.69	8.54	5.74	5.45
300	13.66	6.41	12.11	21.60	21.59	25.54	27.71	23.41	18.50	11.12	8.59	5.61	6.87
315	13.04	6.15	12.62	21.00	25.72	32.49	24.36	21.35	18.05	11.87	9.61	6.25	8.43
330	15.27	5.74	12.59	20.76	28.89	38.36	24.65	22.46	20.48	14.18	11.25	7.31	11.59
345	21.73	4.68	12.41	21.23	28.20	30.34	33.20	27.06	29.09	18.74	13.70	8.85	14.70
360	22.03	2.92	11.70	22.30	24.34	22.24	33.09	29.80	21.81	40.46	19.14	12.05	14.45
Avg.	23.00	4.00	8.91	17.63	24.30	28.81	35.88	44.62	25.31	27.15	29.81	29.96	23.80
Peak Value		54.795		Minimum Value		1.273							

518.9 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.61	-11.71	-7.10	-4.53	-2.95	-1.21	-0.47	-1.42	-3.49	-5.16	-6.40	-10.26	-19.30
15	-14.02	-11.71	-7.10	-4.42	-2.84	-1.16	-0.49	-1.44	-3.42	-5.13	-6.47	-10.49	-21.01
30	-12.86	-11.57	-7.06	-4.30	-2.71	-1.13	-0.51	-1.37	-3.36	-5.14	-6.61	-10.87	-24.49
45	-11.81	-11.11	-6.99	-4.26	-2.65	-1.14	-0.53	-1.29	-3.26	-5.15	-6.70	-11.06	-29.79
60	-10.71	-10.59	-6.85	-4.24	-2.69	-1.21	-0.51	-1.21	-3.14	-5.12	-6.72	-11.06	-32.56
75	-9.97	-9.80	-6.71	-4.21	-2.71	-1.21	-0.45	-1.06	-2.95	-5.00	-6.68	-10.80	-24.00
90	-9.37	-9.11	-6.40	-4.29	-2.86	-1.31	-0.40	-0.89	-2.79	-4.84	-6.44	-10.29	-20.12
105	-8.98	-8.56	-6.16	-4.27	-3.02	-1.50	-0.37	-0.78	-2.62	-4.70	-6.18	-9.64	-18.47
120	-8.96	-8.10	-5.92	-4.29	-3.22	-1.54	-0.33	-0.68	-2.50	-4.45	-5.76	-8.97	-16.86
135	-9.08	-7.85	-5.78	-4.30	-3.38	-1.64	-0.32	-0.68	-2.42	-4.27	-5.38	-8.33	-15.65
150	-9.34	-7.86	-5.64	-4.31	-3.55	-1.70	-0.29	-0.66	-2.42	-4.15	-5.03	-7.81	-15.01
165	-10.01	-7.99	-5.63	-4.37	-3.65	-1.72	-0.26	-0.63	-2.51	-4.08	-4.80	-7.49	-14.36
180	-10.70	-8.22	-5.71	-4.50	-3.81	-1.75	-0.23	-0.63	-2.58	-4.09	-4.68	-7.26	-14.21
195	-11.66	-8.61	-5.89	-4.68	-3.95	-1.74	-0.15	-0.62	-2.62	-4.12	-4.62	-7.17	-14.14
210	-12.78	-9.17	-6.22	-4.94	-4.12	-1.76	-0.19	-0.62	-2.67	-4.19	-4.64	-7.21	-14.23
225	-14.02	-9.84	-6.60	-5.27	-4.33	-1.81	-0.20	-0.65	-2.70	-4.23	-4.73	-7.29	-14.23
240	-15.21	-10.53	-7.07	-5.57	-4.51	-1.85	-0.20	-0.67	-2.71	-4.30	-4.88	-7.47	-13.99
255	-16.26	-11.24	-7.50	-5.91	-4.67	-1.96	-0.19	-0.72	-2.75	-4.34	-5.06	-7.70	-13.74
270	-16.89	-11.68	-7.76	-6.04	-4.73	-1.90	-0.24	-0.80	-2.83	-4.54	-5.29	-7.97	-13.62
285	-17.03	-11.92	-7.89	-6.05	-4.64	-1.82	-0.23	-0.90	-3.01	-4.71	-5.51	-8.24	-13.64
300	-16.99	-11.92	-7.76	-5.85	-4.40	-1.69	-0.28	-1.05	-3.20	-4.93	-5.73	-8.53	-13.92
315	-16.84	-11.87	-7.67	-5.56	-4.03	-1.55	-0.33	-1.20	-3.42	-5.04	-5.89	-8.83	-14.39
330	-16.40	-11.76	-7.39	-5.26	-3.66	-1.42	-0.38	-1.34	-3.53	-5.16	-6.06	-9.24	-15.47
345	-15.79	-11.74	-7.28	-4.93	-3.37	-1.31	-0.41	-1.40	-3.56	-5.07	-6.19	-9.64	-16.72
360	-14.61	-11.71	-7.10	-4.53	-2.95	-1.21	-0.47	-1.42	-3.49	-5.16	-6.40	-10.26	-19.30
Avg.	-12.17	-10.09	-6.87	-4.98	-3.73	-1.71	-0.51	-1.11	-3.10	-4.82	-5.80	-8.87	-16.08
Peak Value		-0.152		Minimum Value		-32.558							

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-22.18	-13.56	-7.38	-4.55	-2.97	-1.31	-0.57	-1.48	-3.60	-5.30	-6.48	-10.52	-27.09
15	-21.62	-13.73	-7.40	-4.45	-2.86	-1.24	-0.56	-1.49	-3.55	-5.29	-6.53	-10.64	-28.38
30	-20.91	-14.07	-7.44	-4.39	-2.77	-1.20	-0.56	-1.44	-3.57	-5.40	-6.69	-10.90	-30.02
45	-20.34	-14.41	-7.57	-4.46	-2.79	-1.25	-0.60	-1.43	-3.61	-5.54	-6.83	-11.06	-31.36
60	-20.09	-14.77	-7.76	-4.61	-2.97	-1.41	-0.65	-1.46	-3.69	-5.71	-6.96	-11.15	-33.77
75	-20.37	-14.93	-8.03	-4.84	-3.16	-1.51	-0.69	-1.46	-3.70	-5.82	-7.03	-11.04	-32.28
90	-21.03	-14.97	-8.17	-5.16	-3.49	-1.72	-0.76	-1.44	-3.73	-5.83	-6.92	-10.71	-24.64
105	-22.23	-14.77	-8.27	-5.39	-3.81	-2.01	-0.83	-1.43	-3.71	-5.83	-6.76	-10.22	-22.33
120	-23.95	-14.17	-8.21	-5.52	-4.05	-2.07	-0.82	-1.37	-3.63	-5.62	-6.38	-9.60	-19.86
135	-25.44	-13.49	-7.97	-5.51	-4.15	-2.09	-0.76	-1.24	-3.49	-5.34	-5.95	-8.91	-17.76
150	-26.47	-12.88	-7.65	-5.40	-4.16	-2.03	-0.62	-1.10	-3.30	-5.05	-5.50	-8.28	-16.22
165	-26.56	-12.32	-7.41	-5.25	-4.09	-1.91	-0.45	-0.93	-3.15	-4.75	-5.12	-7.78	-15.08
180	-26.44	-11.92	-7.20	-5.20	-4.09	-1.82	-0.31	-0.80	-2.97	-4.51	-4.85	-7.38	-14.45
195	-27.27	-11.72	-7.09	-5.21	-4.10	-1.75	-0.16	-0.67	-2.80	-4.36	-4.69	-7.20	-14.17
210	-28.37	-11.84	-7.23	-5.31	-4.19	-1.77	-0.20	-0.62	-2.74	-4.31	-4.66	-7.22	-14.35
225	-30.32	-12.17	-7.40	-5.53	-4.37	-1.87	-0.27	-0.68	-2.77	-4.35	-4.78	-7.38	-14.84
240	-32.83	-12.66	-7.74	-5.74	-4.54	-2.00	-0.38	-0.81	-2.89	-4.55	-5.06	-7.75	-15.56
255	-33.89	-13.24	-8.06	-5.99	-4.72	-2.24	-0.53	-1.01	-3.10	-4.77	-5.39	-8.25	-16.72
270	-31.89	-13.65	-8.29	-6.11	-4.82	-2.30	-0.74	-1.28	-3.37	-5.14	-5.79	-8.80	-18.26
285	-28.91	-13.90	-8.39	-6.13	-4.80	-2.33	-0.85	-1.48	-3.65	-5.38	-6.09	-9.25	-19.83
300	-27.13	-13.90	-8.29	-6.01	-4.60	-2.22	-0.92	-1.63	-3.82	-5.54	-6.28	-9.61	-21.73
315	-25.78	-13.75	-8.19	-5.72	-4.24	-2.03	-0.89	-1.68	-3.88	-5.49	-6.31	-9.81	-23.19
330	-24.49	-13.55	-7.86	-5.39	-3.83	-1.79	-0.80	-1.66	-3.83	-5.44	-6.34	-9.99	-25.05
345	-23.74	-13.48	-7.66	-5.01	-3.46	-1.55	-0.69	-1.58	-3.72	-5.24	-6.36	-10.16	-26.30
360	-22.18	-13.56	-7.38	-4.55	-2.97	-1.31	-0.57	-1.48	-3.60	-5.30	-6.48	-10.52	-27.09
Avg.	-24.14	-13.56	-7.94	-5.43	-4.00	-1.97	-0.78	-1.42	-3.59	-5.34	-6.10	-9.28	-18.76
Peak Value		-0.165		Minimum Value		-33.890							

Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-15.44	-16.31	-19.13	-26.84	-25.93	-17.27	-16.55	-19.77	-19.70	-20.14	-23.90	-22.67	-20.09
15	-14.84	-16.00	-18.88	-25.99	-26.24	-18.64	-18.32	-20.89	-18.78	-19.35	-24.69	-25.16	-21.88
30	-13.60	-15.17	-17.82	-21.02	-21.30	-18.94	-20.18	-19.54	-16.59	-17.61	-23.86	-31.50	-25.92
45	-12.47	-13.85	-15.98	-17.63	-17.45	-17.20	-18.43	-16.19	-14.34	-15.80	-21.93	-40.74	-34.96
60	-11.24	-12.67	-14.08	-15.05	-14.70	-14.85	-15.45	-13.72	-12.45	-14.04	-19.49	-28.13	-38.68
75	-10.38	-11.40	-12.54	-12.94	-12.76	-12.99	-13.05	-11.59	-10.94	-12.68	-17.81	-23.61	-24.70
90	-9.67	-10.41	-11.14	-11.71	-11.56	-11.75	-11.35	-10.15	-9.89	-11.74	-16.28	-20.62	-22.01
105	-9.19	-9.75	-10.30	-10.68	-10.83	-11.05	-10.37	-9.30	-9.13	-11.10	-15.19	-18.65	-20.77
120	-9.10	-9.34	-9.80	-10.38	-10.80	-10.95	-10.04	-8.99	-8.87	-10.71	-14.53	-17.67	-19.88
135	-9.18	-9.24	-9.79	-10.42	-11.31	-11.66	-10.53	-9.86	-9.02	-10.85	-14.48	-17.35	-19.80
150	-9.42	-9.50	-9.96	-10.87	-12.39	-13.05	-11.70	-10.82	-9.76	-11.43	-14.88	-17.78	-21.14
165	-10.11	-9.99	-10.38	-11.74	-13.83	-15.47	-13.81	-12.35	-11.11	-12.51	-16.23	-19.38	-22.52
180	-10.82	-10.64	-11.07	-12.79	-15.91	-19.36	-17.57	-14.83	-13.34	-14.43	-18.89	-22.82	-26.85
195	-11.78	-11.52	-12.06	-14.12	-18.79	-28.04	-25.51	-20.22	-16.43	-16.94	-22.64	-28.38	-36.62
210	-12.91	-12.56	-13.05	-15.76	-22.06	-28.72	-27.01	-31.14	-20.40	-20.00	-28.42	-34.40	-30.08
225	-14.12	-13.66	-14.32	-17.54	-25.17	-20.51	-18.08	-21.86	-20.46	-19.80	-23.74	-24.39	-23.06
240	-15.28	-14.65	-15.50	-19.73	-25.77	-16.51	-14.10	-15.69	-16.55	-16.82	-18.86	-19.40	-19.16
255	-16.34	-15.56	-16.68	-22.98	-23.87	-13.90	-11.50	-12.65	-13.85	-14.59	-16.36	-16.93	-16.79
270	-17.03	-16.08	-17.18	-24.18	-21.52	-12.48	-9.86	-10.69	-12.18	-13.42	-14.95	-15.59	-15.45
285	-17.32	-16.28	-17.48	-23.10	-19.05	-11.36	-9.04	-9.96	-11.66	-13.16	-14.60	-15.04	-14.84
300	-17.43	-16.28	-17.11	-20.10	-17.87	-11.07	-8.88	-10.07	-11.97	-13.73	-14.95	-15.12	-14.71
315	-17.43	-16.42	-17.17	-20.15	-17.30	-11.34	-9.46	-10.96	-13.38	-15.08	-16.19	-15.79	-15.00
330	-17.14	-16.48	-17.31	-20.76	-17.92	-12.32	-10.70	-12.76	-15.33	-17.14	-18.05	-17.24	-15.98
345	-16.54	-16.56	-18.06	-22.43	-20.50	-13.98	-12.55	-15.22	-17.93	-19.13	-20.38	-19.07	-17.22
360	-15.44	-16.31	-19.13	-26.84	-25.93	-17.27	-16.55	-19.77	-19.70	-20.14	-23.90	-22.67	-20.09
Avg.	-12.46	-12.68	-13.48	-15.01	-15.78	-14.04	-12.64	-12.74	-12.78	-14.30	-17.60	-19.34	-19.45
Peak Value	-8.868	Minimum Value -40.742											

RHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.96	-27.28	-12.85	-8.24	-5.47	-3.59	-3.30	-4.14	-5.84	-8.09	-10.42	-15.86	-24.60
15	-16.06	-29.52	-13.09	-8.17	-5.31	-3.43	-3.08	-3.89	-5.43	-7.67	-10.12	-15.42	-25.64
30	-14.52	-32.22	-13.48	-8.15	-5.10	-3.16	-2.81	-3.44	-4.90	-7.14	-9.64	-14.76	-29.44
45	-13.33	-28.37	-14.19	-8.42	-5.09	-3.06	-2.57	-3.03	-4.41	-6.65	-9.15	-14.04	-34.76
60	-12.26	-24.33	-15.20	-8.78	-5.29	-3.11	-2.45	-2.79	-4.01	-6.15	-8.61	-13.13	-33.32
75	-11.68	-21.76	-16.70	-9.57	-5.69	-3.24	-2.41	-2.58	-3.67	-5.69	-8.14	-12.25	-24.69
90	-11.33	-20.00	-18.75	-10.70	-6.42	-3.62	-2.53	-2.52	-3.49	-5.31	-7.55	-11.32	-20.52
105	-11.26	-19.35	-21.68	-12.29	-7.36	-4.26	-2.81	-2.61	-3.39	-5.06	-7.05	-10.44	-18.83
120	-11.67	-19.59	-25.21	-13.78	-8.44	-4.83	-3.17	-2.99	-3.46	-4.80	-6.54	-9.73	-17.26
135	-12.22	-20.47	-25.43	-14.70	-9.21	-5.42	-3.58	-3.39	-3.57	-4.69	-6.20	-9.16	-16.12
150	-12.92	-22.25	-23.04	-14.54	-9.56	-5.73	-3.85	-3.51	-3.79	-4.71	-5.97	-8.82	-15.68
165	-14.07	-25.07	-20.88	-13.65	-9.33	-5.71	-3.93	-3.57	-4.05	-4.83	-6.00	-8.82	-15.37
180	-15.10	-28.12	-18.84	-12.79	-8.79	-5.37	-3.79	-3.60	-4.29	-5.14	-6.29	-9.13	-15.95
195	-16.25	-30.92	-17.20	-11.93	-8.07	-4.87	-3.47	-3.52	-4.51	-5.53	-6.68	-9.57	-16.94
210	-17.44	-29.17	-16.38	-11.26	-7.52	-4.41	-3.20	-3.41	-4.69	-6.13	-7.41	-10.57	-18.90
225	-18.53	-26.83	-15.54	-10.88	-7.15	-4.13	-3.00	-3.34	-4.93	-6.86	-8.33	-11.71	-21.73
240	-19.36	-25.16	-15.16	-10.58	-6.93	-3.93	-2.86	-3.35	-5.20	-7.74	-9.52	-13.39	-25.87
255	-20.13	-23.92	-14.75	-10.33	-6.83	-3.97	-2.87	-3.52	-5.62	-8.59	-10.80	-15.25	-29.22
270	-20.88	-22.59	-14.31	-10.14	-6.84	-3.99	-3.02	-3.83	-6.18	-9.72	-12.16	-17.08	-27.05
285	-21.30	-21.77	-13.91	-9.90	-6.85	-4.11	-3.32	-4.25	-6.80	-10.57	-13.00	-18.31	-24.58
300	-21.78	-21.51	-13.48	-9.64	-6.78	-4.27	-3.64	-4.73	-7.41	-11.10	-13.25	-18.70	-22.83
315	-21.65	-21.65	-13.24	-9.40	-6.65	-4.37	-3.88	-5.02	-7.68	-10.81	-12.68	-18.15	-22.11
330	-20.79	-21.93	-12.94	-9.10	-6.41	-4.31	-3.92	-5.05	-7.41	-10.14	-11.96	-17.35	-21.59
345	-19.44	-23.40	-12.88	-8.75	-6.08	-4.05	-3.76	-4.79	-6.86	-9.12	-11.26	-16.58	-21.83
360	-16.96	-27.28	-12.85	-8.24	-5.47	-3.59	-3.30	-4.14	-5.84	-8.09	-10.42	-15.86	-24.60
Avg.	-15.07	-23.34	-15.57	-10.41	-6.95	-4.32	-3.37	-3.74	-5.05	-6.90	-8.70	-12.35	-20.32
Peak Value	-2.410	Minimum Value -34.765											



LHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.39	-11.83	-8.44	-6.93	-6.51	-4.95	-3.66	-4.74	-7.28	-8.25	-8.59	-11.66	-20.82
15	-18.27	-11.78	-8.36	-6.80	-6.48	-5.08	-3.96	-5.09	-7.73	-8.66	-8.92	-12.17	-22.84
30	-17.85	-11.61	-8.19	-6.60	-6.44	-5.40	-4.38	-5.58	-8.61	-9.48	-9.60	-13.14	-26.17
45	-17.11	-11.19	-7.90	-6.36	-6.31	-5.62	-4.79	-6.11	-9.59	-10.49	-10.34	-14.09	-31.45
60	-15.93	-10.77	-7.54	-6.12	-6.15	-5.73	-4.96	-6.37	-10.57	-11.85	-11.25	-15.27	-40.47
75	-14.84	-10.09	-7.17	-5.71	-5.75	-5.50	-4.84	-6.37	-11.10	-13.36	-12.10	-16.28	-32.32
90	-13.76	-9.48	-6.66	-5.42	-5.39	-5.15	-4.52	-5.94	-11.03	-14.68	-12.92	-17.03	-30.70
105	-12.87	-8.94	-6.28	-5.01	-5.02	-4.77	-4.04	-5.41	-10.47	-15.67	-13.58	-17.36	-29.47
120	-12.30	-8.42	-5.97	-4.81	-4.77	-4.29	-3.51	-4.51	-9.52	-15.58	-13.60	-16.92	-27.36
135	-11.97	-8.10	-5.82	-4.71	-4.70	-3.99	-3.10	-4.01	-8.74	-14.60	-13.03	-15.90	-25.57
150	-11.84	-8.02	-5.72	-4.75	-4.81	-3.88	-2.81	-3.83	-8.07	-13.32	-12.12	-14.65	-23.44
165	-12.18	-8.08	-5.77	-4.91	-5.02	-3.94	-2.69	-3.70	-7.73	-12.06	-10.97	-13.26	-21.17
180	-12.66	-8.27	-5.93	-5.20	-5.47	-4.22	-2.75	-3.68	-7.46	-10.78	-9.78	-11.82	-19.01
195	-13.52	-8.63	-6.22	-5.59	-6.08	-4.64	-2.88	-3.75	-7.14	-9.69	-8.84	-10.88	-17.37
210	-14.60	-9.22	-6.66	-6.09	-6.77	-5.17	-3.20	-3.87	-6.95	-8.63	-7.91	-9.89	-16.04
225	-15.92	-9.93	-7.19	-6.66	-7.54	-5.64	-3.43	-4.00	-6.66	-7.67	-7.22	-9.24	-15.08
240	-17.31	-10.69	-7.80	-7.21	-8.20	-6.05	-3.59	-4.03	-6.31	-6.92	-6.71	-8.75	-14.28
255	-18.55	-11.48	-8.41	-7.85	-8.74	-6.25	-3.57	-3.96	-5.91	-6.39	-6.41	-8.54	-13.87
270	-19.10	-12.05	-8.85	-8.18	-8.88	-6.09	-3.48	-3.80	-5.53	-6.11	-6.29	-8.54	-13.82
285	-19.06	-12.39	-9.13	-8.35	-8.63	-5.68	-3.17	-3.60	-5.36	-6.01	-6.37	-8.69	-14.00
300	-18.74	-12.43	-9.11	-8.20	-8.14	-5.17	-2.96	-3.48	-5.27	-6.13	-6.57	-8.97	-14.52
315	-18.58	-12.35	-9.09	-7.88	-7.48	-4.75	-2.86	-3.53	-5.46	-6.37	-6.91	-9.37	-15.19
330	-18.37	-12.20	-8.81	-7.58	-6.96	-4.56	-2.91	-3.74	-5.82	-6.81	-7.35	-9.97	-16.69
345	-18.23	-12.05	-8.68	-7.26	-6.71	-4.61	-3.12	-4.06	-6.29	-7.24	-7.81	-10.61	-18.32
360	-18.39	-11.83	-8.44	-6.93	-6.51	-4.95	-3.66	-4.74	-7.28	-8.25	-8.59	-11.66	-20.82
Avg.	-15.30	-10.30	-7.50	-6.44	-6.53	-5.17	-3.67	-4.54	-7.51	-9.02	-8.92	-11.47	-18.13
Peak Value		-2.689		Minimum Value		-40.472							

AR													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	21.74	2.96	12.09	22.42	24.48	22.19	33.59	29.24	21.61	40.78	19.55	12.51	13.38
15	17.98	2.27	11.51	22.07	23.44	20.47	25.92	23.20	17.61	24.87	23.19	14.65	15.92
30	14.46	1.62	10.60	21.00	22.26	17.83	20.93	18.24	13.56	17.45	54.17	20.65	14.61
45	13.39	2.42	9.20	18.57	23.06	16.69	17.92	15.10	10.76	13.27	23.29	49.82	14.50
60	13.64	3.70	7.65	16.34	26.20	16.51	16.87	13.86	8.86	9.99	16.44	18.27	8.19
75	14.87	4.64	6.03	13.21	49.03	17.74	17.15	13.36	7.88	7.65	13.00	12.85	7.67
90	17.14	5.34	4.41	10.61	24.60	21.10	18.84	14.23	7.77	6.15	10.48	9.97	5.56
105	20.67	5.41	2.98	8.05	17.44	30.57	23.00	15.92	8.26	5.28	8.90	8.43	5.26
120	28.75	4.93	1.90	6.47	13.64	30.26	34.09	21.21	9.48	5.17	8.29	8.14	5.62
135	36.88	4.26	1.82	5.70	11.89	21.71	31.10	28.94	10.78	5.75	8.54	8.65	6.09
150	24.16	3.42	2.38	5.84	11.47	19.48	24.51	34.45	12.34	6.77	9.37	9.81	7.55
165	19.29	2.47	3.08	6.66	12.29	19.86	22.91	42.93	13.61	8.10	11.11	12.03	9.85
180	17.12	1.77	4.00	7.72	14.47	23.65	24.52	46.44	14.88	10.07	14.04	16.28	15.18
195	16.13	1.34	5.05	9.13	18.88	37.66	29.37	37.67	16.45	12.58	18.16	22.52	32.07
210	15.81	1.75	5.89	10.79	27.36	27.14	72.08	31.53	17.79	16.89	30.81	28.11	15.75
225	16.50	2.50	7.00	12.46	32.81	21.24	32.03	28.42	20.09	26.62	23.93	17.02	8.75
240	18.63	3.32	7.96	14.35	22.73	18.33	27.54	28.25	23.93	26.55	15.88	11.66	4.69
255	20.86	4.23	9.12	16.99	19.24	17.69	27.93	31.98	35.34	18.00	12.12	8.68	3.00
270	19.81	5.32	10.34	18.98	18.67	18.41	31.55	58.12	28.64	13.77	9.76	6.83	3.85
285	17.84	6.15	11.43	21.06	19.82	20.90	41.02	28.53	21.65	11.81	8.77	5.96	5.30
300	15.24	6.38	12.16	21.66	22.15	25.75	28.05	22.88	18.26	11.09	8.72	5.89	7.03
315	15.14	6.21	12.60	21.21	26.49	33.15	24.66	21.38	17.92	12.04	9.89	6.62	8.45
330	17.15	5.88	12.64	21.21	29.98	36.87	24.70	22.47	20.79	14.45	11.72	7.94	11.22
345	23.14	4.82	12.51	21.36	28.79	29.92	28.68	27.46	29.62	19.34	14.16	9.61	13.99
360	21.74	2.96	12.09	22.42	24.48	22.19	33.59	29.24	21.61	40.78	19.55	12.51	13.38
Avg.	24.66	3.99	8.94	17.80	35.42	28.69	58.11	44.65	23.99	27.37	40.23	35.90	18.84
Peak Value		72.083		Minimum Value		1.338							

520.2 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.97	-12.12	-7.46	-4.95	-3.37	-1.60	-0.83	-1.77	-3.82	-5.38	-6.63	-10.47	-19.47
15	-14.32	-12.18	-7.48	-4.80	-3.24	-1.55	-0.84	-1.77	-3.75	-5.38	-6.72	-10.70	-21.42
30	-13.29	-12.01	-7.47	-4.68	-3.10	-1.53	-0.88	-1.73	-3.66	-5.38	-6.84	-11.04	-24.83
45	-12.24	-11.61	-7.42	-4.65	-3.05	-1.53	-0.89	-1.65	-3.57	-5.42	-6.92	-11.24	-29.10
60	-11.18	-11.01	-7.32	-4.65	-3.07	-1.59	-0.86	-1.55	-3.46	-5.38	-6.98	-11.21	-31.14
75	-10.44	-10.28	-7.15	-4.62	-3.13	-1.61	-0.79	-1.42	-3.31	-5.29	-6.88	-10.92	-23.95
90	-9.73	-9.61	-6.92	-4.72	-3.27	-1.70	-0.76	-1.25	-3.11	-5.13	-6.67	-10.49	-20.47
105	-9.37	-8.94	-6.59	-4.69	-3.46	-1.80	-0.71	-1.11	-2.93	-4.99	-6.41	-9.89	-18.56
120	-9.28	-8.51	-6.36	-4.69	-3.66	-1.94	-0.69	-1.01	-2.81	-4.77	-6.04	-9.24	-17.24
135	-9.46	-8.24	-6.16	-4.77	-3.83	-2.05	-0.67	-1.03	-2.75	-4.57	-5.69	-8.63	-15.92
150	-9.69	-8.26	-6.08	-4.77	-4.01	-2.12	-0.65	-0.98	-2.76	-4.45	-5.34	-8.15	-15.23
165	-10.36	-8.40	-6.06	-4.81	-4.11	-2.14	-0.61	-0.96	-2.83	-4.38	-5.12	-7.83	-14.74
180	-10.99	-8.59	-6.11	-4.92	-4.28	-2.15	-0.58	-0.96	-2.90	-4.40	-4.99	-7.63	-14.70
195	-11.89	-9.00	-6.32	-5.11	-4.42	-2.17	-0.52	-0.95	-2.95	-4.44	-4.96	-7.59	-14.68
210	-13.07	-9.57	-6.68	-5.35	-4.58	-2.19	-0.55	-0.96	-2.99	-4.48	-5.00	-7.60	-14.75
225	-14.27	-10.25	-7.03	-5.72	-4.81	-2.22	-0.56	-0.96	-2.98	-4.53	-5.08	-7.70	-14.80
240	-15.44	-10.97	-7.50	-6.00	-4.95	-2.28	-0.54	-0.99	-3.00	-4.57	-5.22	-7.92	-14.50
255	-16.42	-11.71	-7.94	-6.32	-5.14	-2.29	-0.53	-1.04	-3.03	-4.66	-5.42	-8.11	-14.30
270	-16.90	-12.13	-8.16	-6.47	-5.16	-2.31	-0.56	-1.11	-3.16	-4.82	-5.65	-8.39	-14.08
285	-17.08	-12.25	-8.28	-6.47	-5.04	-2.20	-0.57	-1.23	-3.32	-5.03	-5.87	-8.60	-14.08
300	-17.26	-12.23	-8.14	-6.21	-4.79	-2.10	-0.60	-1.38	-3.52	-5.18	-6.05	-8.88	-14.26
315	-16.98	-12.14	-8.02	-5.95	-4.44	-1.92	-0.66	-1.54	-3.71	-5.33	-6.20	-9.19	-14.92
330	-16.61	-12.16	-7.77	-5.64	-4.08	-1.80	-0.73	-1.69	-3.84	-5.40	-6.32	-9.51	-15.92
345	-16.22	-12.06	-7.63	-5.30	-3.73	-1.71	-0.77	-1.77	-3.87	-5.36	-6.45	-9.93	-17.18
360	-14.97	-12.12	-7.46	-4.95	-3.37	-1.60	-0.83	-1.77	-3.82	-5.38	-6.63	-10.47	-19.47
Avg.	-12.51	-10.50	-7.29	-5.39	-4.15	-2.11	-0.86	-1.45	-3.41	-5.11	-6.10	-9.20	-16.51
Peak Value		-0.519		Minimum Value		-31.137							

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-23.13	-14.00	-7.74	-4.98	-3.39	-1.72	-0.93	-1.83	-3.92	-5.50	-6.70	-10.72	-27.00
15	-22.80	-14.24	-7.76	-4.83	-3.26	-1.63	-0.91	-1.82	-3.87	-5.53	-6.77	-10.84	-28.13
30	-21.74	-14.51	-7.83	-4.76	-3.16	-1.61	-0.93	-1.80	-3.89	-5.63	-6.90	-11.06	-29.34
45	-21.15	-14.87	-7.97	-4.84	-3.20	-1.65	-0.96	-1.80	-3.94	-5.80	-7.03	-11.24	-30.71
60	-20.80	-15.27	-8.18	-5.02	-3.35	-1.78	-1.01	-1.81	-4.02	-5.96	-7.20	-11.29	-32.20
75	-20.93	-15.45	-8.42	-5.22	-3.58	-1.91	-1.05	-1.83	-4.08	-6.10	-7.22	-11.15	-31.16
90	-21.59	-15.39	-8.61	-5.58	-3.91	-2.12	-1.13	-1.82	-4.08	-6.15	-7.14	-10.93	-24.94
105	-22.80	-15.16	-8.67	-5.80	-4.24	-2.31	-1.17	-1.77	-4.05	-6.12	-6.99	-10.48	-22.38
120	-24.38	-14.63	-8.62	-5.92	-4.49	-2.47	-1.18	-1.71	-3.98	-5.95	-6.67	-9.89	-20.26
135	-26.05	-13.92	-8.39	-5.94	-4.58	-2.49	-1.10	-1.59	-3.84	-5.67	-6.26	-9.24	-18.10
150	-27.16	-13.36	-8.07	-5.84	-4.61	-2.45	-0.98	-1.42	-3.66	-5.37	-5.83	-8.62	-16.69
165	-27.29	-12.78	-7.86	-5.69	-4.55	-2.33	-0.80	-1.26	-3.48	-5.06	-5.45	-8.13	-15.54
180	-27.55	-12.36	-7.62	-5.63	-4.56	-2.23	-0.65	-1.13	-3.29	-4.81	-5.17	-7.77	-14.97
195	-27.88	-12.19	-7.56	-5.64	-4.57	-2.18	-0.53	-1.00	-3.14	-4.67	-5.02	-7.62	-14.72
210	-29.91	-12.36	-7.72	-5.73	-4.65	-2.20	-0.56	-0.97	-3.06	-4.60	-5.02	-7.61	-14.86
225	-32.30	-12.74	-7.86	-5.98	-4.84	-2.28	-0.64	-1.00	-3.06	-4.66	-5.13	-7.78	-15.40
240	-35.86	-13.25	-8.20	-6.17	-4.98	-2.43	-0.73	-1.13	-3.18	-4.81	-5.38	-8.19	-16.15
255	-36.72	-13.84	-8.54	-6.42	-5.19	-2.57	-0.87	-1.34	-3.39	-5.07	-5.74	-8.63	-17.33
270	-32.43	-14.24	-8.72	-6.55	-5.26	-2.71	-1.06	-1.58	-3.69	-5.39	-6.13	-9.21	-18.83
285	-30.37	-14.39	-8.84	-6.57	-5.21	-2.72	-1.19	-1.80	-3.94	-5.68	-6.43	-9.60	-20.43
300	-28.29	-14.40	-8.72	-6.40	-5.01	-2.63	-1.25	-1.95	-4.11	-5.77	-6.57	-9.93	-22.09
315	-26.88	-14.22	-8.57	-6.12	-4.66	-2.40	-1.23	-2.01	-4.15	-5.75	-6.59	-10.13	-23.37
330	-26.09	-13.98	-8.26	-5.77	-4.25	-2.16	-1.15	-2.00	-4.11	-5.65	-6.59	-10.23	-25.08
345	-25.29	-13.84	-8.02	-5.38	-3.82	-1.94	-1.04	-1.94	-4.02	-5.51	-6.60	-10.44	-26.06
360	-23.13	-14.00	-7.74	-4.98	-3.39	-1.72	-0.93	-1.83	-3.92	-5.50	-6.70	-10.72	-27.00
Avg.	-25.01	-14.05	-8.36	-5.84	-4.43	-2.37	-1.13	-1.76	-3.91	-5.62	-6.39	-9.61	-19.23
Peak Value		-0.531		Minimum Value		-36.721							

Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-15.69	-16.66	-19.49	-27.29	-26.01	-17.58	-16.94	-20.35	-20.38	-21.01	-25.05	-23.13	-20.32
15	-14.98	-16.40	-19.53	-26.75	-26.42	-18.98	-18.83	-21.39	-19.20	-20.01	-26.10	-25.68	-22.46
30	-13.96	-15.59	-18.44	-21.94	-21.77	-19.14	-20.06	-19.44	-16.58	-17.92	-25.16	-32.99	-26.72
45	-12.84	-14.38	-16.67	-18.45	-17.88	-17.27	-18.39	-16.34	-14.44	-16.20	-22.72	-44.79	-34.20
60	-11.68	-13.05	-14.80	-15.58	-15.14	-15.12	-15.54	-13.83	-12.68	-14.38	-20.06	-28.61	-37.78
75	-10.84	-11.86	-13.09	-13.56	-13.23	-13.35	-13.20	-11.91	-11.20	-12.96	-18.12	-23.79	-24.86
90	-10.02	-10.94	-11.84	-12.15	-11.92	-12.07	-11.64	-10.36	-10.07	-11.90	-16.55	-20.66	-22.40
105	-9.57	-10.13	-10.79	-11.15	-11.30	-11.36	-10.67	-9.61	-9.36	-11.35	-15.45	-18.87	-20.89
120	-9.42	-9.73	-10.27	-10.78	-11.28	-11.39	-10.42	-9.28	-9.08	-11.01	-14.72	-17.78	-20.23
135	-9.56	-9.62	-10.12	-11.02	-11.81	-12.14	-10.93	-10.18	-9.28	-11.07	-14.74	-17.48	-19.95
150	-9.77	-9.87	-10.42	-11.40	-12.86	-13.45	-12.11	-11.18	-10.03	-11.62	-15.10	-18.07	-20.67
165	-10.45	-10.37	-10.76	-12.16	-14.29	-16.00	-14.29	-12.66	-11.44	-12.74	-16.48	-19.59	-22.52
180	-11.09	-10.96	-11.43	-13.12	-16.43	-19.97	-18.30	-15.33	-13.57	-14.81	-18.89	-22.75	-26.85
195	-12.00	-11.85	-12.37	-14.53	-19.21	-28.90	-26.02	-20.66	-16.66	-17.23	-23.09	-28.86	-35.62
210	-13.16	-12.81	-13.39	-16.17	-22.56	-29.08	-26.77	-31.20	-20.63	-20.29	-28.73	-34.86	-30.92
225	-14.33	-13.85	-14.64	-18.02	-26.13	-20.61	-18.20	-21.60	-20.53	-20.12	-24.51	-24.89	-23.64
240	-15.48	-14.85	-15.79	-20.16	-26.97	-16.82	-14.25	-15.88	-16.85	-17.28	-19.55	-20.10	-19.48
255	-16.46	-15.83	-16.83	-23.04	-24.98	-14.33	-11.74	-12.86	-14.12	-15.03	-16.89	-17.53	-17.29
270	-17.02	-16.28	-17.31	-24.01	-21.92	-12.87	-10.14	-10.98	-12.53	-13.89	-15.46	-16.00	-15.86
285	-17.29	-16.34	-17.44	-22.54	-19.35	-11.71	-9.33	-10.34	-12.11	-13.66	-15.07	-15.47	-15.23
300	-17.61	-16.29	-17.22	-19.83	-17.91	-11.50	-9.23	-10.50	-12.47	-14.18	-15.56	-15.57	-15.04
315	-17.44	-16.35	-17.23	-20.23	-17.57	-11.69	-9.79	-11.44	-13.87	-15.67	-16.82	-16.29	-15.59
330	-17.13	-16.80	-17.47	-20.97	-18.30	-12.83	-11.12	-13.26	-16.03	-17.84	-18.56	-17.65	-16.48
345	-16.79	-16.79	-18.22	-22.70	-20.82	-14.49	-13.05	-15.86	-18.68	-20.03	-21.14	-19.52	-17.78
360	-15.69	-16.66	-19.49	-27.29	-26.01	-17.58	-16.94	-20.35	-20.38	-21.01	-25.05	-23.13	-20.32
Avg.	-12.76	-13.03	-13.89	-15.46	-16.22	-14.43	-12.97	-13.07	-13.07	-14.64	-18.02	-19.71	-19.83
Peak Value	-9.082	Minimum Value -44.793											

RHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-17.34	-27.18	-13.18	-8.66	-5.88	-3.97	-3.63	-4.49	-6.18	-8.29	-10.60	-15.90	-24.85
15	-16.31	-29.98	-13.34	-8.53	-5.68	-3.79	-3.41	-4.20	-5.76	-7.91	-10.28	-15.49	-26.31
30	-14.92	-34.77	-13.79	-8.47	-5.49	-3.54	-3.13	-3.75	-5.15	-7.36	-9.87	-14.79	-30.48
45	-13.76	-31.03	-14.52	-8.73	-5.48	-3.42	-2.89	-3.36	-4.69	-6.93	-9.37	-14.16	-33.64
60	-12.72	-25.48	-15.52	-9.16	-5.64	-3.45	-2.75	-3.08	-4.31	-6.43	-8.90	-13.26	-31.60
75	-12.12	-22.58	-17.10	-9.89	-6.05	-3.60	-2.70	-2.91	-4.00	-5.98	-8.34	-12.37	-24.44
90	-11.66	-20.89	-19.17	-11.13	-6.78	-3.97	-2.86	-2.83	-3.78	-5.59	-7.77	-11.50	-20.77
105	-11.63	-19.85	-22.23	-12.68	-7.79	-4.50	-3.09	-2.89	-3.67	-5.34	-7.28	-10.69	-18.88
120	-11.92	-19.97	-25.65	-14.22	-8.84	-5.15	-3.49	-3.25	-3.72	-5.11	-6.81	-9.97	-17.59
135	-12.56	-20.79	-26.26	-15.04	-9.68	-5.76	-3.87	-3.68	-3.87	-4.97	-6.50	-9.44	-16.35
150	-13.16	-22.36	-23.32	-14.97	-10.01	-6.11	-4.18	-3.78	-4.08	-4.98	-6.27	-9.15	-15.79
165	-14.27	-25.01	-21.31	-14.14	-9.79	-6.05	-4.25	-3.86	-4.34	-5.12	-6.31	-9.14	-15.66
180	-15.24	-28.02	-19.33	-13.30	-9.27	-5.73	-4.08	-3.87	-4.58	-5.45	-6.55	-9.45	-16.33
195	-16.38	-29.86	-17.82	-12.39	-8.58	-5.24	-3.81	-3.81	-4.81	-5.84	-7.03	-10.03	-17.41
210	-17.47	-29.24	-16.98	-11.71	-7.99	-4.84	-3.54	-3.72	-5.01	-6.42	-7.73	-10.90	-19.36
225	-18.42	-27.27	-16.10	-11.37	-7.68	-4.52	-3.34	-3.65	-5.21	-7.16	-8.65	-12.10	-22.41
240	-19.17	-25.55	-15.67	-11.05	-7.41	-4.35	-3.22	-3.66	-5.51	-7.98	-9.85	-13.75	-27.49
255	-19.80	-24.14	-15.30	-10.81	-7.37	-4.33	-3.20	-3.86	-5.94	-8.93	-11.14	-15.50	-30.79
270	-20.36	-22.97	-14.74	-10.60	-7.31	-4.43	-3.37	-4.17	-6.54	-10.00	-12.50	-17.45	-28.07
285	-20.97	-22.01	-14.39	-10.34	-7.30	-4.55	-3.69	-4.61	-7.17	-10.92	-13.33	-18.42	-24.97
300	-21.58	-21.50	-13.91	-10.06	-7.25	-4.74	-3.99	-5.08	-7.78	-11.34	-13.38	-18.55	-23.13
315	-21.28	-21.52	-13.54	-9.78	-7.12	-4.76	-4.23	-5.40	-7.96	-11.13	-12.80	-18.06	-22.76
330	-20.60	-21.91	-13.33	-9.46	-6.84	-4.70	-4.26	-5.41	-7.74	-10.32	-12.12	-17.21	-21.98
345	-19.62	-23.29	-13.26	-9.09	-6.46	-4.44	-4.09	-5.15	-7.16	-9.34	-11.41	-16.63	-22.45
360	-17.34	-27.18	-13.18	-8.66	-5.88	-3.97	-3.63	-4.49	-6.18	-8.29	-10.60	-15.90	-24.85
Avg.	-15.33	-23.68	-15.97	-10.81	-7.38	-4.69	-3.69	-4.05	-5.35	-7.18	-8.97	-12.60	-20.65
Peak Value	-2.701	Minimum Value -34.765											

LHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.72	-12.26	-8.82	-7.36	-6.94	-5.37	-4.06	-5.09	-7.60	-8.49	-8.86	-11.94	-20.96
15	-18.65	-12.25	-8.79	-7.20	-6.89	-5.50	-4.35	-5.46	-8.05	-8.92	-9.24	-12.45	-23.12
30	-18.34	-12.03	-8.62	-7.03	-6.84	-5.84	-4.82	-6.02	-9.03	-9.75	-9.83	-13.41	-26.21
45	-17.55	-11.66	-8.36	-6.81	-6.74	-6.08	-5.21	-6.54	-10.01	-10.75	-10.56	-14.34	-30.99
60	-16.42	-11.17	-8.03	-6.55	-6.57	-6.15	-5.39	-6.81	-10.97	-12.04	-11.45	-15.45	-41.05
75	-15.36	-10.54	-7.61	-6.15	-6.23	-5.94	-5.28	-6.80	-11.66	-13.60	-12.32	-16.41	-33.61
90	-14.18	-9.94	-7.19	-5.85	-5.84	-5.60	-4.92	-6.42	-11.55	-15.10	-13.16	-17.33	-32.34
105	-13.29	-9.31	-6.71	-5.44	-5.46	-5.15	-4.46	-5.84	-10.96	-16.00	-13.80	-17.65	-30.09
120	-12.69	-8.84	-6.41	-5.21	-5.23	-4.76	-3.92	-4.97	-10.02	-15.99	-13.95	-17.33	-28.36
135	-12.38	-8.49	-6.20	-5.20	-5.13	-4.45	-3.49	-4.43	-9.19	-15.08	-13.37	-16.35	-26.12
150	-12.28	-8.44	-6.16	-5.21	-5.26	-4.33	-3.20	-4.22	-8.56	-13.81	-12.50	-15.02	-24.43
165	-12.63	-8.49	-6.19	-5.34	-5.48	-4.41	-3.07	-4.08	-8.15	-12.43	-11.32	-13.66	-21.96
180	-13.04	-8.64	-6.32	-5.60	-5.94	-4.66	-3.14	-4.08	-7.86	-11.06	-10.19	-12.30	-19.73
195	-13.79	-9.04	-6.64	-6.01	-6.53	-5.11	-3.27	-4.12	-7.55	-10.01	-9.17	-11.24	-18.00
210	-15.03	-9.62	-7.10	-6.50	-7.23	-5.59	-3.57	-4.24	-7.28	-8.92	-8.30	-10.33	-16.60
225	-16.37	-10.33	-7.61	-7.10	-7.97	-6.08	-3.81	-4.31	-6.94	-7.96	-7.59	-9.66	-15.62
240	-17.83	-11.12	-8.22	-7.63	-8.60	-6.49	-3.91	-4.36	-6.57	-7.23	-7.06	-9.24	-14.72
255	-19.08	-11.97	-8.82	-8.23	-9.11	-6.56	-3.90	-4.25	-6.15	-6.69	-6.77	-8.98	-14.40
270	-19.50	-12.50	-9.23	-8.59	-9.26	-6.44	-3.77	-4.08	-5.83	-6.39	-6.65	-8.96	-14.26
285	-19.36	-12.73	-9.50	-8.75	-8.96	-6.00	-3.47	-3.90	-5.63	-6.33	-6.73	-9.08	-14.45
300	-19.26	-12.78	-9.48	-8.52	-8.44	-5.52	-3.27	-3.80	-5.56	-6.39	-6.94	-9.38	-14.86
315	-18.99	-12.67	-9.44	-8.28	-7.81	-5.10	-3.18	-3.84	-5.76	-6.66	-7.27	-9.79	-15.70
330	-18.83	-12.64	-9.18	-7.97	-7.36	-4.93	-3.28	-4.09	-6.11	-7.09	-7.64	-10.31	-17.15
345	-18.87	-12.40	-9.01	-7.65	-7.05	-5.01	-3.49	-4.43	-6.62	-7.57	-8.12	-10.98	-18.71
360	-18.72	-12.26	-8.82	-7.36	-6.94	-5.37	-4.06	-5.09	-7.60	-8.49	-8.86	-11.94	-20.96
Avg.	-15.72	-10.71	-7.92	-6.86	-6.96	-5.59	-4.05	-4.91	-7.85	-9.32	-9.25	-11.85	-18.62
Peak Value	-3.068	Minimum Value -41.053											

AR													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	22.04	3.15	12.19	22.53	24.37	21.93	32.23	29.27	21.81	38.79	20.02	13.00	13.13
15	17.46	2.27	11.83	22.34	23.19	20.17	25.29	22.82	17.66	24.79	24.44	15.24	14.81
30	14.23	1.27	10.78	21.65	22.17	17.61	20.26	17.75	13.16	17.29	53.14	22.00	12.35
45	13.34	1.87	9.36	19.19	22.81	16.37	17.53	14.85	10.54	13.30	23.30	39.43	16.38
60	13.56	3.39	7.82	16.56	25.42	16.24	16.44	13.50	8.75	10.12	16.73	18.03	6.09
75	14.68	4.44	6.06	13.47	39.84	17.49	16.65	13.14	7.65	7.69	12.95	12.83	6.31
90	16.83	5.07	4.47	10.61	25.28	20.57	18.55	13.82	7.54	6.04	10.45	9.79	4.69
105	20.41	5.32	2.94	8.08	17.51	28.54	22.11	15.48	8.04	5.25	8.91	8.40	4.90
120	27.03	4.95	1.90	6.44	13.76	33.05	32.06	20.10	9.19	5.11	8.19	7.95	5.17
135	39.80	4.30	1.73	5.80	11.84	22.52	33.29	27.33	10.54	5.61	8.49	8.44	5.86
150	25.88	3.54	2.42	5.86	11.48	19.79	25.03	31.97	11.96	6.59	9.27	9.74	6.74
165	20.52	2.61	3.08	6.61	12.28	20.54	23.39	38.16	13.32	8.00	11.03	11.90	9.18
180	18.02	1.87	3.96	7.61	14.44	24.26	25.38	38.01	14.57	10.12	13.72	15.78	14.29
195	16.60	1.58	4.92	9.08	18.61	42.35	30.13	35.11	16.10	12.56	18.24	23.19	29.37
210	17.12	1.82	5.77	10.72	27.15	27.26	54.82	30.62	17.73	16.87	29.69	29.67	16.06
225	18.62	2.49	6.87	12.35	35.52	20.96	31.44	28.45	20.03	26.69	24.28	17.12	8.59
240	22.24	3.34	7.86	14.21	23.35	18.21	27.94	27.93	24.36	27.29	15.95	11.90	4.07
255	27.63	4.37	8.95	16.63	20.01	17.88	27.91	32.83	38.70	17.83	12.16	8.90	2.65
270	26.17	5.37	10.25	18.76	19.02	18.80	32.64	45.58	27.70	13.77	9.78	6.88	3.59
285	20.66	6.22	11.23	20.78	20.43	21.61	37.69	27.82	21.07	11.75	8.81	6.17	5.33
300	17.55	6.67	12.05	21.05	23.30	26.99	27.56	22.69	17.90	11.13	9.01	6.31	7.08
315	17.66	6.57	12.71	21.28	28.07	34.27	24.41	20.95	17.99	11.97	10.23	7.07	8.28
330	19.85	6.23	12.60	21.33	30.41	37.62	24.97	22.41	20.57	14.70	11.98	8.47	11.34
345	27.31	5.10	12.41	21.68	29.50	29.69	29.33	27.68	30.12	19.87	14.57	10.05	13.45
360	22.04	3.15	12.19	22.53	24.37	21.93	32.23	29.27	21.81	38.79	20.02	13.00	13.13
Avg.	27.26	4.05	8.95	17.89	28.77	31.07	41.13	33.93	26.12	25.72	39.20	26.19	16.60
Peak Value	54.821	Minimum Value 1.270											

521.5 MHz

Horizontal + Vertical													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-15.44	-12.66	-7.99	-5.49	-3.97	-2.17	-1.36	-2.32	-4.31	-5.80	-7.03	-10.90	-19.95
15	-14.92	-12.66	-8.04	-5.34	-3.79	-2.11	-1.38	-2.29	-4.24	-5.81	-7.13	-11.06	-21.67
30	-13.87	-12.62	-8.03	-5.25	-3.66	-2.07	-1.40	-2.26	-4.16	-5.83	-7.23	-11.40	-24.96
45	-12.79	-12.29	-8.02	-5.20	-3.60	-2.08	-1.41	-2.18	-4.08	-5.83	-7.35	-11.60	-28.80
60	-11.85	-11.69	-7.95	-5.21	-3.65	-2.14	-1.39	-2.08	-3.97	-5.82	-7.38	-11.58	-30.09
75	-11.01	-10.93	-7.74	-5.23	-3.70	-2.16	-1.33	-1.93	-3.82	-5.75	-7.32	-11.31	-24.38
90	-10.35	-10.23	-7.51	-5.29	-3.86	-2.25	-1.28	-1.77	-3.65	-5.58	-7.18	-10.92	-20.78
105	-9.91	-9.54	-7.17	-5.31	-4.05	-2.36	-1.24	-1.65	-3.47	-5.45	-6.89	-10.32	-19.03
120	-9.83	-9.13	-6.94	-5.33	-4.26	-2.50	-1.20	-1.53	-3.32	-5.21	-6.47	-9.69	-17.70
135	-9.99	-8.88	-6.75	-5.37	-4.43	-2.62	-1.21	-1.53	-3.25	-5.01	-6.15	-9.12	-16.57
150	-10.26	-8.85	-6.71	-5.36	-4.63	-2.69	-1.17	-1.50	-3.26	-4.89	-5.81	-8.65	-15.77
165	-10.78	-8.92	-6.62	-5.42	-4.75	-2.73	-1.13	-1.48	-3.34	-4.86	-5.60	-8.33	-15.44
180	-11.44	-9.13	-6.68	-5.54	-4.92	-2.77	-1.11	-1.47	-3.40	-4.87	-5.49	-8.17	-15.27
195	-12.36	-9.57	-6.89	-5.72	-5.07	-2.77	-1.05	-1.47	-3.43	-4.93	-5.43	-8.08	-15.42
210	-13.44	-10.16	-7.26	-5.97	-5.26	-2.81	-1.04	-1.46	-3.46	-4.96	-5.49	-8.18	-15.62
225	-14.64	-10.84	-7.65	-6.34	-5.43	-2.84	-1.10	-1.46	-3.49	-5.00	-5.62	-8.32	-15.60
240	-15.71	-11.54	-8.09	-6.62	-5.61	-2.89	-1.06	-1.49	-3.49	-5.07	-5.74	-8.54	-15.24
255	-16.71	-12.24	-8.55	-6.93	-5.76	-2.90	-1.05	-1.52	-3.52	-5.12	-5.94	-8.69	-15.05
270	-17.11	-12.67	-8.75	-7.04	-5.80	-2.89	-1.09	-1.64	-3.63	-5.29	-6.17	-8.96	-14.79
285	-17.43	-12.76	-8.83	-7.03	-5.64	-2.78	-1.08	-1.71	-3.81	-5.49	-6.37	-9.15	-14.73
300	-17.45	-12.72	-8.73	-6.76	-5.36	-2.64	-1.12	-1.90	-4.03	-5.67	-6.53	-9.42	-14.91
315	-17.30	-12.71	-8.55	-6.52	-5.01	-2.48	-1.18	-2.05	-4.21	-5.78	-6.69	-9.64	-15.45
330	-16.87	-12.54	-8.32	-6.18	-4.61	-2.36	-1.24	-2.19	-4.34	-5.84	-6.77	-9.99	-16.33
345	-16.58	-12.56	-8.15	-5.80	-4.30	-2.26	-1.30	-2.29	-4.35	-5.77	-6.85	-10.29	-17.58
360	-15.44	-12.66	-7.99	-5.49	-3.97	-2.17	-1.36	-2.32	-4.31	-5.80	-7.03	-10.90	-19.95
Avg.	-13.01	-11.07	-7.87	-5.98	-4.75	-2.68	-1.38	-1.96	-3.91	-5.56	-6.57	-9.70	-17.13
Peak Value		-1.044		Minimum Value		-30.085							

Horizontal													
$\phi$ [deg]	$\theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-24.74	-14.57	-8.27	-5.51	-3.99	-2.27	-1.47	-2.38	-4.41	-5.90	-7.07	-11.12	-26.62
15	-24.36	-14.79	-8.32	-5.36	-3.81	-2.19	-1.45	-2.34	-4.37	-5.95	-7.16	-11.18	-27.87
30	-23.02	-15.15	-8.37	-5.33	-3.72	-2.15	-1.46	-2.33	-4.39	-6.06	-7.29	-11.43	-29.16
45	-22.16	-15.53	-8.54	-5.37	-3.75	-2.21	-1.50	-2.34	-4.46	-6.22	-7.45	-11.60	-30.17
60	-21.84	-15.90	-8.78	-5.56	-3.93	-2.35	-1.55	-2.37	-4.56	-6.41	-7.58	-11.66	-31.15
75	-21.93	-16.06	-8.98	-5.81	-4.15	-2.47	-1.60	-2.36	-4.63	-6.57	-7.65	-11.55	-30.31
90	-22.33	-16.03	-9.17	-6.12	-4.50	-2.69	-1.66	-2.35	-4.66	-6.61	-7.66	-11.34	-25.22
105	-23.50	-15.76	-9.22	-6.38	-4.82	-2.88	-1.71	-2.34	-4.62	-6.61	-7.46	-10.92	-22.87
120	-25.08	-15.30	-9.16	-6.52	-5.08	-3.03	-1.70	-2.24	-4.52	-6.39	-7.09	-10.33	-20.73
135	-26.60	-14.62	-8.98	-6.57	-5.19	-3.07	-1.63	-2.10	-4.37	-6.12	-6.72	-9.72	-18.81
150	-27.76	-13.94	-8.74	-6.44	-5.23	-3.02	-1.49	-1.94	-4.17	-5.84	-6.31	-9.13	-17.32
165	-28.35	-13.42	-8.42	-6.29	-5.18	-2.91	-1.32	-1.78	-4.00	-5.55	-5.93	-8.64	-16.24
180	-28.56	-13.05	-8.21	-6.23	-5.19	-2.84	-1.18	-1.64	-3.80	-5.31	-5.68	-8.32	-15.60
195	-29.65	-12.91	-8.17	-6.26	-5.22	-2.78	-1.06	-1.51	-3.62	-5.16	-5.50	-8.12	-15.48
210	-31.90	-13.06	-8.30	-6.35	-5.33	-2.82	-1.06	-1.47	-3.54	-5.08	-5.51	-8.19	-15.73
225	-34.31	-13.43	-8.52	-6.61	-5.46	-2.90	-1.17	-1.50	-3.56	-5.12	-5.66	-8.40	-16.22
240	-38.74	-13.96	-8.82	-6.80	-5.64	-3.05	-1.25	-1.64	-3.67	-5.30	-5.90	-8.81	-16.97
255	-36.84	-14.57	-9.17	-7.02	-5.80	-3.18	-1.40	-1.82	-3.88	-5.52	-6.25	-9.22	-18.20
270	-33.95	-14.91	-9.35	-7.14	-5.89	-3.29	-1.61	-2.10	-4.15	-5.84	-6.63	-9.77	-19.61
285	-32.17	-15.10	-9.45	-7.16	-5.82	-3.30	-1.71	-2.28	-4.41	-6.09	-6.90	-10.17	-21.23
300	-30.06	-15.03	-9.36	-6.97	-5.59	-3.18	-1.76	-2.46	-4.60	-6.20	-7.02	-10.43	-22.55
315	-28.93	-14.86	-9.14	-6.71	-5.24	-2.96	-1.74	-2.51	-4.64	-6.16	-7.06	-10.54	-23.84
330	-27.64	-14.51	-8.82	-6.32	-4.79	-2.72	-1.65	-2.49	-4.58	-6.07	-7.01	-10.70	-24.92
345	-27.09	-14.39	-8.54	-5.89	-4.39	-2.49	-1.56	-2.45	-4.48	-5.89	-6.98	-10.77	-26.00
360	-24.74	-14.57	-8.27	-5.51	-3.99	-2.27	-1.47	-2.38	-4.41	-5.90	-7.07	-11.12	-26.62
Avg.	-26.16	-14.69	-8.94	-6.42	-5.03	-2.95	-1.66	-2.28	-4.41	-6.07	-6.85	-10.10	-19.91
Peak Value		-1.056		Minimum Value		-38.741							

Vertical													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-15.98	-17.14	-19.97	-28.13	-26.24	-18.27	-17.51	-20.80	-20.92	-22.10	-26.77	-23.92	-21.00
15	-15.44	-16.76	-20.06	-27.92	-26.82	-19.42	-19.19	-21.61	-19.65	-20.90	-27.81	-26.49	-22.85
30	-14.43	-16.17	-19.29	-22.59	-22.34	-19.38	-20.13	-19.72	-17.10	-18.63	-26.24	-33.37	-27.03
45	-13.32	-15.08	-17.46	-19.36	-18.30	-17.55	-18.37	-16.57	-14.93	-16.51	-23.77	-47.91	-34.49
60	-12.30	-13.76	-15.56	-16.29	-15.71	-15.45	-15.71	-14.11	-12.94	-14.80	-20.94	-28.98	-36.73
75	-11.38	-12.52	-13.77	-14.22	-13.82	-13.65	-13.56	-12.17	-11.50	-13.39	-18.65	-24.17	-25.67
90	-10.63	-11.55	-12.49	-12.86	-12.52	-12.49	-12.03	-10.77	-10.49	-12.34	-17.00	-21.35	-22.72
105	-10.11	-10.73	-11.42	-11.92	-11.96	-11.87	-11.13	-9.96	-9.81	-11.77	-15.95	-19.23	-21.34
120	-9.96	-10.33	-10.91	-11.52	-11.86	-11.90	-10.89	-9.74	-9.49	-11.43	-15.21	-18.30	-20.69
135	-10.09	-10.22	-10.72	-11.55	-12.35	-12.68	-11.48	-10.67	-9.66	-11.46	-15.19	-18.02	-20.53
150	-10.33	-10.46	-10.99	-11.96	-13.49	-14.06	-12.64	-11.62	-10.47	-11.97	-15.48	-18.50	-20.99
165	-10.86	-10.82	-11.30	-12.82	-14.94	-16.65	-14.92	-13.20	-11.85	-13.17	-17.03	-19.92	-23.16
180	-11.53	-11.39	-11.95	-13.84	-17.04	-20.64	-19.14	-15.83	-13.96	-15.07	-19.25	-22.95	-26.67
195	-12.44	-12.28	-12.81	-15.10	-19.90	-29.90	-28.14	-20.99	-17.10	-17.74	-23.33	-28.43	-34.27
210	-13.50	-13.28	-13.97	-16.73	-23.51	-28.82	-26.52	-30.99	-21.09	-20.62	-29.64	-36.08	-31.56
225	-14.68	-14.31	-15.04	-18.50	-26.69	-21.17	-18.54	-21.96	-20.93	-20.78	-25.37	-25.80	-24.33
240	-15.73	-15.23	-16.19	-20.69	-27.44	-17.48	-14.63	-16.27	-17.30	-17.87	-20.21	-20.62	-20.08
255	-16.75	-16.05	-17.28	-23.50	-25.41	-14.88	-12.19	-13.31	-14.54	-15.66	-17.58	-18.04	-17.93
270	-17.20	-16.61	-17.68	-23.68	-22.38	-13.38	-10.57	-11.59	-13.07	-14.51	-16.19	-16.62	-16.52
285	-17.58	-16.56	-17.65	-22.55	-19.61	-12.23	-9.79	-10.80	-12.72	-14.34	-15.79	-15.94	-15.83
300	-17.70	-16.57	-17.42	-19.95	-18.23	-11.97	-9.71	-11.08	-13.16	-15.07	-16.25	-16.24	-15.74
315	-17.61	-16.80	-17.51	-20.11	-17.90	-12.29	-10.38	-12.03	-14.50	-16.51	-17.53	-16.90	-16.13
330	-17.25	-16.91	-18.00	-21.13	-18.61	-13.32	-11.70	-13.96	-16.98	-18.77	-19.54	-18.24	-16.98
345	-16.98	-17.21	-18.80	-22.91	-21.13	-15.15	-13.68	-16.69	-19.64	-21.44	-22.38	-20.12	-18.26
360	-15.98	-17.14	-19.97	-28.13	-26.24	-18.27	-17.51	-20.80	-20.92	-22.10	-26.77	-23.92	-21.00
Avg.	-13.23	-13.54	-14.45	-16.07	-16.79	-14.94	-13.45	-13.54	-13.53	-15.15	-18.64	-20.25	-20.39
Peak Value	-9.491	Minimum Value -47.907											

RHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-17.79	-26.60	-13.66	-9.15	-6.47	-4.55	-4.13	-5.02	-6.66	-8.70	-10.91	-15.97	-25.43
15	-16.93	-30.14	-13.88	-9.00	-6.23	-4.32	-3.90	-4.67	-6.22	-8.33	-10.65	-15.63	-26.50
30	-15.54	-37.09	-14.23	-9.03	-6.02	-4.05	-3.59	-4.25	-5.65	-7.80	-10.21	-15.11	-30.23
45	-14.29	-34.82	-15.00	-9.16	-6.00	-3.93	-3.36	-3.85	-5.20	-7.32	-9.84	-14.48	-33.27
60	-13.41	-27.29	-16.13	-9.64	-6.19	-3.98	-3.22	-3.57	-4.77	-6.88	-9.30	-13.59	-30.57
75	-12.70	-23.79	-17.65	-10.44	-6.60	-4.11	-3.20	-3.37	-4.46	-6.44	-8.78	-12.75	-24.68
90	-12.28	-21.71	-19.73	-11.59	-7.32	-4.48	-3.30	-3.29	-4.28	-6.04	-8.28	-11.97	-21.01
105	-12.14	-20.59	-22.96	-13.20	-8.27	-5.00	-3.56	-3.36	-4.18	-5.80	-7.76	-11.11	-19.29
120	-12.47	-20.49	-25.94	-14.74	-9.40	-5.67	-3.93	-3.72	-4.18	-5.55	-7.25	-10.43	-17.99
135	-13.04	-21.26	-26.81	-15.76	-10.23	-6.30	-4.35	-4.11	-4.30	-5.40	-6.96	-9.94	-16.91
150	-13.69	-22.92	-24.12	-15.62	-10.60	-6.64	-4.63	-4.24	-4.54	-5.40	-6.73	-9.64	-16.25
165	-14.57	-24.90	-21.88	-14.71	-10.43	-6.60	-4.69	-4.32	-4.80	-5.58	-6.80	-9.64	-16.31
180	-15.54	-27.25	-19.99	-13.83	-9.91	-6.30	-4.56	-4.35	-5.04	-5.89	-7.03	-9.95	-16.79
195	-16.52	-29.83	-18.62	-13.04	-9.25	-5.83	-4.28	-4.26	-5.25	-6.34	-7.48	-10.48	-18.01
210	-17.51	-29.77	-17.52	-12.36	-8.71	-5.43	-4.00	-4.20	-5.48	-6.87	-8.20	-11.40	-20.24
225	-18.54	-27.87	-16.91	-12.05	-8.29	-5.15	-3.85	-4.13	-5.70	-7.63	-9.22	-12.66	-23.42
240	-19.18	-26.04	-16.35	-11.73	-8.03	-4.99	-3.72	-4.17	-6.03	-8.53	-10.40	-14.39	-29.14
255	-19.99	-24.68	-15.96	-11.43	-7.99	-4.96	-3.75	-4.35	-6.45	-9.46	-11.67	-16.10	-32.96
270	-20.42	-23.28	-15.41	-11.25	-7.98	-5.04	-3.94	-4.72	-7.07	-10.55	-12.98	-17.85	-29.15
285	-20.71	-22.23	-14.96	-10.96	-7.95	-5.14	-4.21	-5.12	-7.76	-11.45	-13.73	-18.84	-25.48
300	-21.32	-21.76	-14.48	-10.60	-7.89	-5.31	-4.52	-5.66	-8.36	-11.84	-13.71	-18.62	-23.91
315	-21.26	-21.71	-14.09	-10.34	-7.70	-5.35	-4.76	-5.94	-8.53	-11.50	-13.14	-17.91	-23.15
330	-20.66	-22.02	-13.77	-10.03	-7.41	-5.26	-4.79	-5.96	-8.22	-10.74	-12.35	-17.33	-22.44
345	-19.87	-23.26	-13.66	-9.59	-7.04	-5.00	-4.60	-5.67	-7.61	-9.70	-11.60	-16.58	-22.94
360	-17.79	-26.60	-13.66	-9.15	-6.47	-4.55	-4.13	-5.02	-6.66	-8.70	-10.91	-15.97	-25.43
Avg.	-15.78	-24.13	-16.53	-11.36	-7.96	-5.25	-4.18	-4.54	-5.83	-7.63	-9.41	-13.03	-21.19
Peak Value	-3.196	Minimum Value -37.091											

LHCP													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-19.24	-12.83	-9.36	-7.93	-7.56	-5.91	-4.62	-5.66	-8.11	-8.92	-9.31	-12.51	-21.39
15	-19.22	-12.73	-9.35	-7.78	-7.46	-6.09	-4.94	-6.04	-8.61	-9.38	-9.68	-12.92	-23.40
30	-18.81	-12.63	-9.22	-7.61	-7.44	-6.43	-5.42	-6.59	-9.52	-10.19	-10.28	-13.81	-26.48
45	-18.12	-12.31	-8.99	-7.43	-7.33	-6.68	-5.83	-7.15	-10.53	-11.20	-10.96	-14.75	-30.73
60	-17.05	-11.81	-8.67	-7.15	-7.19	-6.75	-6.03	-7.46	-11.69	-12.46	-11.85	-15.88	-39.84
75	-15.94	-11.16	-8.21	-6.78	-6.83	-6.57	-5.89	-7.42	-12.43	-14.11	-12.77	-16.81	-36.25
90	-14.80	-10.55	-7.78	-6.44	-6.47	-6.22	-5.56	-7.05	-12.37	-15.55	-13.71	-17.61	-33.72
105	-13.87	-9.90	-7.29	-6.09	-6.12	-5.78	-5.09	-6.52	-11.69	-16.54	-14.27	-18.14	-31.38
120	-13.25	-9.46	-6.99	-5.85	-5.84	-5.36	-4.52	-5.55	-10.78	-16.48	-14.32	-17.72	-29.56
135	-12.97	-9.14	-6.79	-5.79	-5.75	-5.06	-4.08	-5.03	-9.92	-15.67	-13.83	-16.79	-27.83
150	-12.87	-9.02	-6.79	-5.79	-5.89	-4.93	-3.77	-4.80	-9.17	-14.42	-13.04	-15.57	-25.52
165	-13.13	-9.03	-6.75	-5.96	-6.12	-5.03	-3.66	-4.66	-8.78	-12.99	-11.77	-14.19	-22.85
180	-13.59	-9.20	-6.89	-6.23	-6.57	-5.32	-3.72	-4.62	-8.43	-11.66	-10.73	-12.91	-20.57
195	-14.47	-9.61	-7.19	-6.61	-7.16	-5.73	-3.86	-4.70	-8.09	-10.49	-9.69	-11.79	-18.90
210	-15.60	-10.21	-7.69	-7.10	-7.87	-6.25	-4.11	-4.76	-7.76	-9.45	-8.82	-10.99	-17.45
225	-16.90	-10.92	-8.20	-7.69	-8.59	-6.68	-4.38	-4.84	-7.46	-8.43	-8.11	-10.32	-16.38
240	-18.30	-11.70	-8.79	-8.23	-9.30	-7.06	-4.45	-4.85	-7.02	-7.67	-7.57	-9.84	-15.42
255	-19.47	-12.49	-9.42	-8.83	-9.71	-7.12	-4.40	-4.72	-6.61	-7.12	-7.29	-9.56	-15.12
270	-19.85	-13.06	-9.81	-9.11	-9.83	-6.96	-4.27	-4.58	-6.25	-6.83	-7.19	-9.56	-14.95
285	-20.19	-13.28	-10.05	-9.29	-9.49	-6.55	-3.97	-4.36	-6.05	-6.75	-7.25	-9.64	-15.11
300	-19.75	-13.30	-10.07	-9.07	-8.91	-6.01	-3.77	-4.28	-6.03	-6.88	-7.45	-9.98	-15.50
315	-19.53	-13.30	-9.97	-8.85	-8.36	-5.64	-3.69	-4.33	-6.22	-7.14	-7.80	-10.34	-16.26
330	-19.22	-13.05	-9.78	-8.48	-7.85	-5.48	-3.77	-4.56	-6.62	-7.54	-8.18	-10.88	-17.55
345	-19.32	-12.95	-9.59	-8.15	-7.61	-5.56	-4.04	-4.96	-7.13	-8.02	-8.62	-11.46	-19.08
360	-19.24	-12.83	-9.36	-7.93	-7.56	-5.91	-4.62	-5.66	-8.11	-8.92	-9.31	-12.51	-21.39
Avg.	-16.28	-11.29	-8.50	-7.46	-7.56	-6.18	-4.61	-5.46	-8.38	-9.78	-9.76	-12.41	-19.30
Peak Value	-3.657	Minimum Value -39.845											

AR													
$\phi$ [deg]	$\Theta$ [deg]												
	0	15	30	45	60	75	90	105	120	135	150	165	180
0	21.59	3.61	12.29	23.07	24.09	22.13	30.99	28.67	21.56	38.06	20.79	14.13	12.83
15	17.66	2.36	11.86	23.10	23.05	19.89	24.45	22.11	17.30	24.37	25.10	16.18	15.06
30	14.60	1.04	11.04	21.76	21.78	17.30	19.59	17.46	13.18	17.29	47.88	22.48	13.46
45	13.27	1.30	9.55	20.07	22.34	16.08	16.98	14.51	10.52	13.16	23.76	36.32	16.77
60	13.70	2.95	7.86	16.92	24.86	16.03	15.91	13.15	8.44	10.15	16.74	17.65	6.23
75	14.67	4.13	6.09	13.65	37.80	17.04	16.26	12.81	7.35	7.64	12.93	12.78	4.69
90	16.83	4.94	4.49	10.81	26.24	19.99	17.77	13.42	7.24	6.04	10.37	10.07	4.10
105	20.06	5.22	2.89	8.23	18.21	26.98	21.12	14.90	7.80	5.19	8.93	8.31	4.41
120	27.00	5.01	1.97	6.54	13.88	34.92	29.33	19.58	8.82	5.07	8.27	8.03	4.70
135	47.22	4.39	1.74	5.71	11.96	22.94	36.12	25.52	10.10	5.50	8.50	8.51	5.08
150	26.52	3.55	2.38	5.81	11.55	20.19	26.09	29.85	11.68	6.43	9.16	9.67	6.23
165	21.60	2.82	3.08	6.66	12.29	20.91	24.49	34.14	12.95	7.91	11.11	11.82	8.88
180	19.01	2.19	3.91	7.71	14.43	24.94	26.34	36.12	14.29	9.89	13.57	15.45	13.38
195	18.60	1.70	4.77	9.02	18.47	44.72	32.31	31.97	15.81	12.59	17.94	22.50	25.82
210	19.20	1.83	5.81	10.64	26.32	26.55	44.67	29.78	17.68	16.66	28.95	32.63	15.97
225	20.53	2.49	6.68	12.19	35.15	21.09	30.40	27.79	19.92	26.64	23.92	17.49	8.30
240	25.94	3.37	7.75	14.03	22.77	18.54	27.51	28.11	24.88	26.07	15.84	11.84	3.63
255	30.49	4.36	8.88	16.56	20.11	18.18	28.56	33.39	41.03	17.46	12.15	8.88	2.24
270	29.72	5.53	10.13	18.24	19.52	19.16	34.30	42.08	26.47	13.51	9.86	7.04	3.43
285	30.57	6.49	11.19	20.39	21.07	21.85	37.28	27.11	20.20	11.56	8.96	6.29	5.44
300	20.89	6.90	12.10	21.15	24.61	27.88	27.33	22.06	17.52	11.11	9.23	6.74	6.95
315	20.07	6.94	12.65	21.34	28.48	35.63	24.20	20.69	17.58	12.18	10.51	7.74	8.47
330	21.66	6.47	12.94	21.04	31.97	38.10	24.68	21.89	20.75	14.77	12.57	8.99	11.24
345	29.95	5.48	12.76	21.66	29.74	29.80	29.85	27.85	31.28	20.36	15.40	10.86	13.20
360	21.59	3.61	12.29	23.07	24.09	22.13	30.99	28.67	21.56	38.06	20.79	14.13	12.83
Avg.	33.77	4.14	9.03	18.05	27.92	32.76	33.14	31.18	27.96	25.04	34.04	24.36	14.20
Peak Value	47.877	Minimum Value 1.041											