

3D Radiation Pattern Measurement Results

1. Informations

Date		Test Engineer	
Customer		Antenna Version	
Model / Revision			
Test Condition			

Photo / Graph	Photo / Graph	Photo / Graph
Photo / Graph	Photo / Graph	Photo / Graph

2. Test Results

No	Frequency	Peak Value		Minimum Value		Avg. Gain	Efficiency
	[MHz]	Value[dBi]	Degree	Value[dBi]	Degree	[dBi]	[%]
1	2400.000	5.238506	90 / 300	-26.936387	60 / 120	0.206081	104.859582
2	2408.000	5.135662	90 / 300	-25.026437	180 / 270	0.063806	101.480027
3	2416.000	5.309491	90 / 300	-23.966895	180 / 270	0.225239	105.323171
4	2424.000	5.319186	90 / 300	-20.420937	180 / 270	0.186861	104.396540
5	2432.000	5.397759	90 / 300	-18.730382	180 / 270	0.261717	106.211538
6	2440.000	5.469690	90 / 300	-16.355327	180 / 270	0.301774	107.195711
7	2448.000	5.151177	90 / 300	-15.719991	60 / 90	0.127415	102.977292
8	2456.000	5.295668	90 / 300	-18.700336	60 / 90	0.309382	107.383649
9	2464.000	5.055672	90 / 330	-13.607167	60 / 90	0.225551	105.330725
10	2472.000	4.856009	90 / 300	-15.784211	60 / 90	0.075097	101.744207
11	2480.000	4.916589	90 / 300	-16.826683	60 / 90	0.160664	103.768697
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- Data -

Summary		Rowdata		H Plane		E1 Plane		E2 Plane	
Frequency		Max Gain		Min Gain		Average Gain		Efficiency	
[MHz]	e[Deg]	φ[Deg]	Gain[dB]	e[Deg]	φ[Deg]	Gain[dB]	Gain[dB]	[%]	
2400.000	90.0	300.0	5.239	60.0	120.0	-26.936	0.206	104.880	
2408.000	90.0	300.0	5.136	180.0	270.0	-25.026	0.064	101.480	
2416.000	90.0	300.0	5.309	180.0	270.0	-23.967	0.225	105.323	
2424.000	90.0	300.0	5.319	180.0	270.0	-20.421	0.187	104.397	
2432.000	90.0	300.0	5.398	180.0	270.0	-18.730	0.262	106.212	
2440.000	90.0	300.0	5.470	180.0	270.0	-16.355	0.302	107.196	
2448.000	90.0	300.0	5.151	60.0	90.0	-15.720	0.127	102.977	
2456.000	90.0	300.0	5.296	60.0	90.0	-18.700	0.309	107.384	
2464.000	90.0	330.0	5.056	60.0	90.0	-13.607	0.226	105.331	
2472.000	90.0	300.0	4.856	60.0	90.0	-15.784	0.075	101.744	

- Polarization -

Horizontal + Vertical

FILE NAME

TEST_20180309

- Frequency -

2400.000
2408.000
2416.000
2424.000
2432.000
2440.000
2448.000
2456.000

- Theta -

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60.0
90.0
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150.0
180.0

- Phi -

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60.0
90.0
120.0
150.0
180.0
210.0

- Graph -

Line Graph

- Scale -

Auto Manual Min: -26.9364 Max: 5.40969 Setup

Open

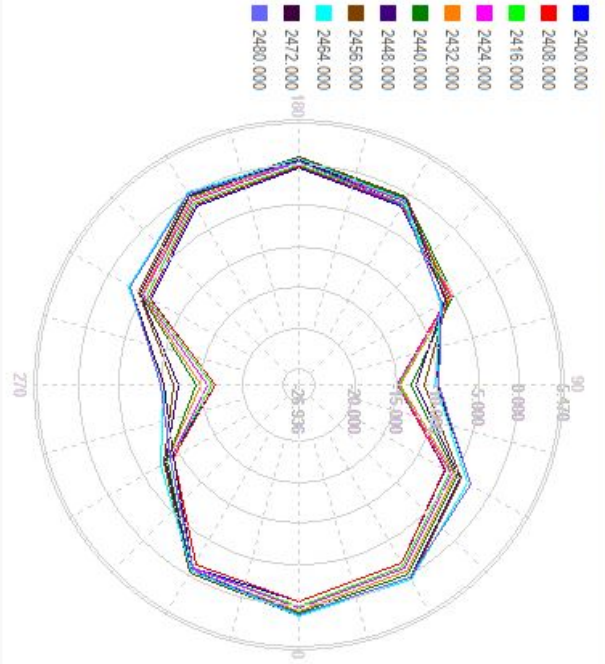
Exit

Report

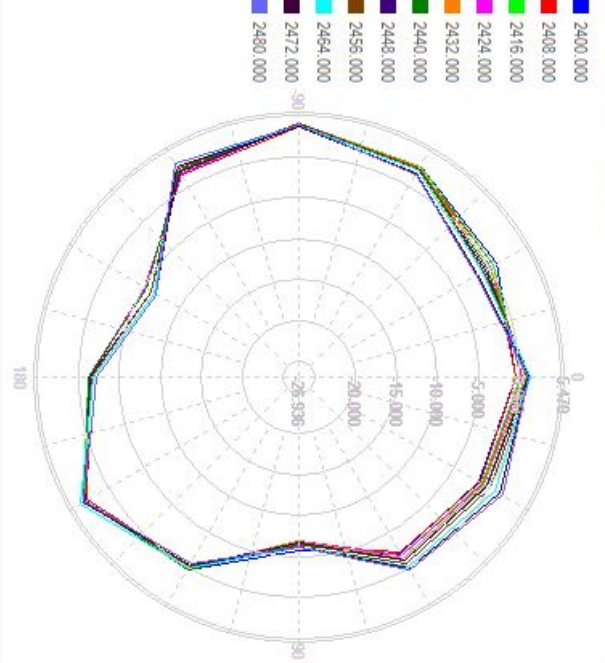
ECC

Multiple Cut

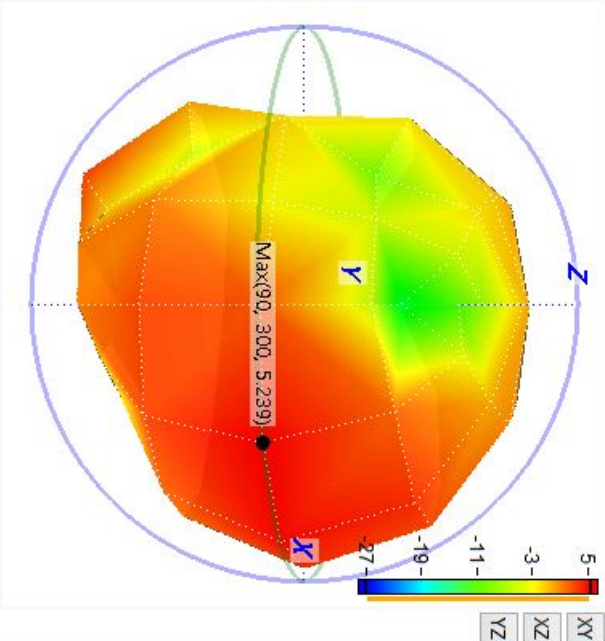
- Theta PolarLine Graph -



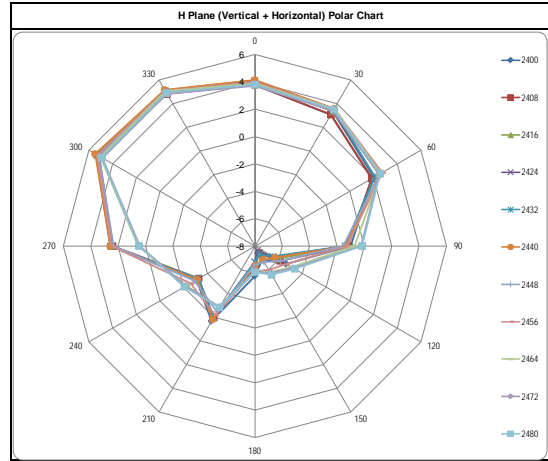
- Phi PolarLine Graph -



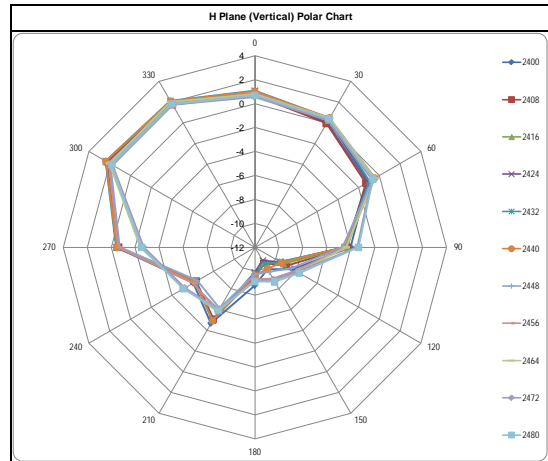
- 3D Graph -



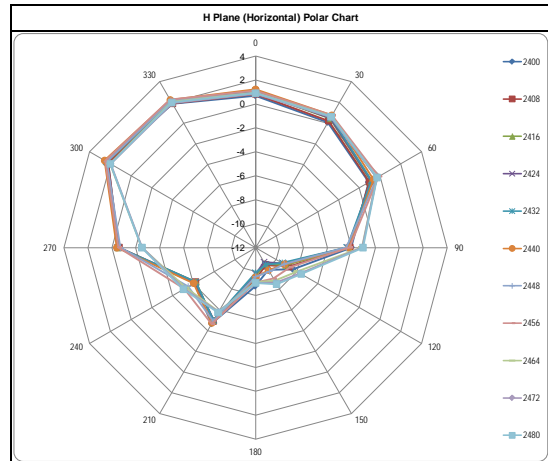
H Plane (Vertical + Horizontal)									
No	Frequency [MHz]	Maximum Value			Minimum Value			Avg. Gain [dB]	Efficiency [%]
		Θ [Deg]	Φ [Deg]	Value[dB]	Θ [Deg]	Φ [Deg]	Value[dB]		
1	2400	90	300	5.24	90	150	-6.87	1.49	140.94
2	2408	90	300	5.14	90	150	-7.39	1.40	137.93
3	2416	90	300	5.31	90	150	-7.48	1.56	143.16
4	2424	90	300	6.32	90	150	-7.53	1.56	143.34
5	2432	90	300	5.40	90	150	-7.33	1.62	145.25
6	2440	90	300	5.47	90	150	-6.85	1.72	148.51
7	2448	90	300	5.15	90	150	-6.65	1.53	142.13
8	2456	90	300	5.30	90	180	-6.17	1.70	147.99
9	2464	90	330	5.06	90	180	-6.17	1.48	140.57
10	2472	90	300	4.86	90	180	-6.13	1.37	137.08
11	2480	90	300	4.92	90	180	-6.09	1.45	139.58
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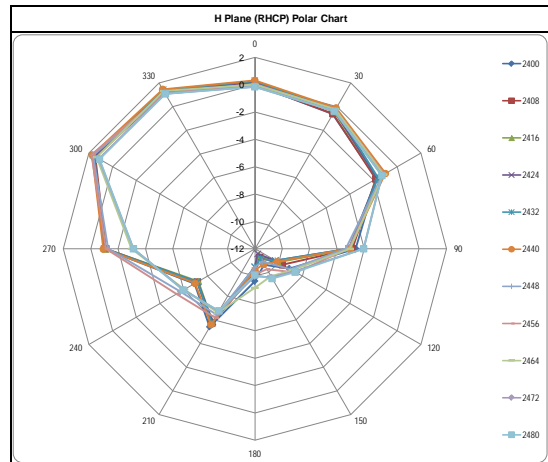
H Plane (Vertical)									
No	Frequency [MHz]	Maximum Value			Minimum Value			Avg. Gain [dB]	Efficiency [%]
		Θ [Deg]	Φ [Deg]	Value[dB]	Θ [Deg]	Φ [Deg]	Value[dB]		
1	2400	90	300	2.25	90	150	-9.89	-1.50	70.81
2	2408	90	300	2.04	90	150	-10.47	-1.70	67.66
3	2416	90	300	2.27	90	150	-10.52	-1.48	71.10
4	2424	90	300	2.28	90	150	-10.70	-1.49	71.00
5	2432	90	300	2.39	90	150	-10.35	-1.40	72.52
6	2440	90	300	2.37	90	150	-9.91	-1.37	72.98
7	2448	90	300	1.93	90	180	-9.73	-1.64	68.48
8	2456	90	300	2.08	90	180	-9.31	-1.47	71.21
9	2464	90	330	2.05	90	180	-9.23	-1.59	69.32
10	2472	90	330	1.73	90	180	-9.23	-1.78	66.40
11	2480	90	330	1.83	90	180	-9.15	-1.66	68.29
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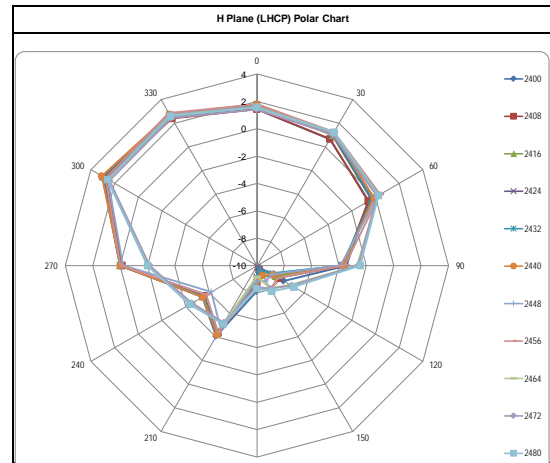
H Plane (Horizontal)									
No	Frequency [MHz]	Maximum Value			Minimum Value			Avg. Gain [dB]	Efficiency [%]
		Θ [Deg]	Φ [Deg]	Value[dB]	Θ [Deg]	Φ [Deg]	Value[dB]		
1	2400	90	300	2.21	90	150	-9.87	-1.54	70.13
2	2408	90	300	2.21	90	150	-10.32	-1.53	70.27
3	2416	90	300	2.33	90	150	-10.46	-1.42	72.06
4	2424	90	300	2.34	90	150	-10.58	-1.41	72.34
5	2432	90	300	2.36	90	150	-10.32	-1.38	72.73
6	2440	90	300	2.55	90	150	-9.81	-1.22	75.52
7	2448	90	300	2.35	90	150	-9.71	-1.33	73.65
8	2456	90	300	2.49	90	180	-9.06	-1.15	76.79
9	2464	90	330	2.04	90	180	-9.13	-1.47	71.25
10	2472	90	300	1.96	90	180	-9.05	-1.51	70.68
11	2480	90	300	1.99	90	180	-9.05	-1.47	71.29
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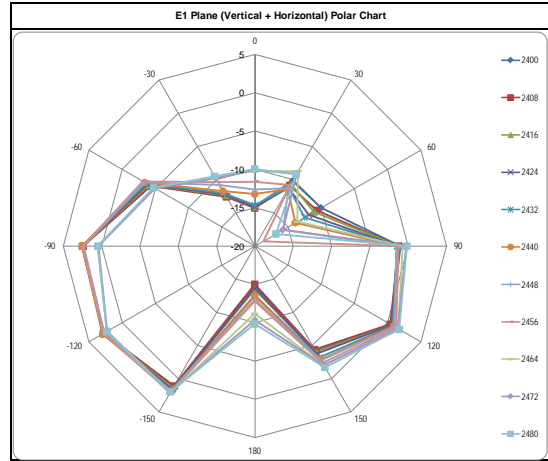
H Plane (RHCP)									
No	Frequency [MHz]	Maximum Value			Minimum Value			Avg. Gain [dB]	Efficiency [%]
		Θ [Deg]	Φ [Deg]	Value[dB]	Θ [Deg]	Φ [Deg]	Value[dB]		
1	2400	90	300	1.54	90	150	-10.66	-2.20	60.26
2	2408	90	300	1.45	90	150	-11.27	-2.30	58.89
3	2416	90	300	1.55	90	150	-11.46	-2.22	60.03
4	2424	90	300	1.54	90	150	-11.57	-2.21	60.13
5	2432	90	300	1.64	90	150	-11.15	-2.12	61.37
6	2440	90	300	1.72	90	150	-10.70	-1.99	63.30
7	2448	90	300	1.66	90	150	-10.91	-2.20	60.20
8	2456	90	300	1.77	90	150	-10.27	-2.06	62.29
9	2464	90	300	1.36	90	150	-9.69	-2.29	58.97
10	2472	90	300	1.17	90	180	-9.99	-2.39	57.70
11	2480	90	300	1.10	90	180	-10.07	-2.41	57.43
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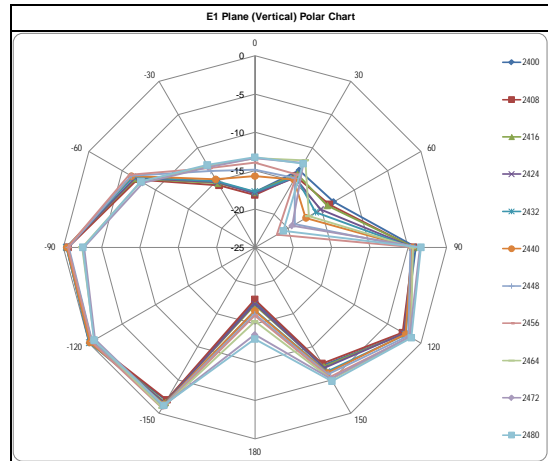
H Plane (LHCP)									
No	Frequency [MHz]	Maximum Value			Minimum Value			Avg. Gain [dB]	Efficiency [%]
		Θ [Deg]	Φ [Deg]	Value[dBi]	Θ [Deg]	Φ [Deg]	Value[dBi]		
1	2400	90	300	2.82	90	150	-9.22	-0.93	80.68
2	2408	90	300	2.71	90	150	-9.67	-1.02	79.04
3	2416	90	300	2.94	90	150	-9.70	-0.80	83.12
4	2424	90	300	2.96	90	150	-9.88	-0.80	83.21
5	2432	90	300	3.02	90	150	-9.65	-0.76	83.89
6	2440	90	300	3.09	90	150	-9.16	-0.70	85.21
7	2448	90	330	2.76	90	180	-8.87	-0.87	81.93
8	2456	90	330	2.88	90	180	-8.43	-0.67	85.71
9	2464	90	330	2.67	90	180	-9.21	-0.88	81.60
10	2472	90	330	2.46	90	180	-8.43	-1.00	79.38
11	2480	90	330	2.60	90	180	-8.30	-0.85	82.15
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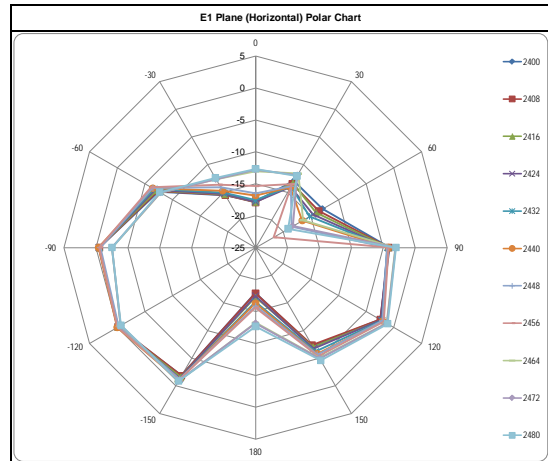
E1 Plane (Vertical + Horizontal)									
No	Frequency [MHz]	Maximum Value		Minimum Value		Avg. Gain [dB]	Efficiency [%]		
		Θ [Deg]	Φ [Deg]	Θ [Deg]	Φ [Deg]				
1	2400	90	-120	2.96	90	180	-14.85	-1.72	67.27
2	2408	90	-120	2.73	90	0	-15.04	-1.89	64.78
3	2416	90	-120	2.82	90	0	-14.84	-1.72	67.28
4	2424	90	-120	2.80	90	0	-14.90	-1.70	67.62
5	2432	90	-120	2.89	90	0	-14.65	-1.58	69.56
6	2440	90	-120	2.94	90	60	-13.90	-1.50	70.84
7	2448	90	-120	2.66	90	60	-15.72	-1.57	69.62
8	2456	90	-120	2.81	90	60	-18.70	-1.37	73.02
9	2464	90	-120	2.31	90	60	-13.61	-1.65	68.40
10	2472	90	-120	2.24	90	60	-15.78	-1.69	67.79
11	2480	90	-120	2.23	90	60	-16.83	-1.60	69.25
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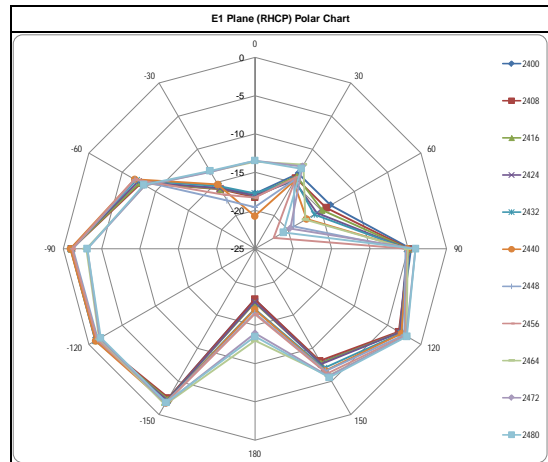
E1 Plane (Vertical)									
No	Frequency [MHz]	Maximum Value		Minimum Value		Avg. Gain [dB]	Efficiency [%]		
		Θ [Deg]	Φ [Deg]	Θ [Deg]	Φ [Deg]				
1	2400	90	-120	-0.05	90	180	-17.86	-4.72	33.74
2	2408	90	-120	-0.43	90	180	-18.20	-4.99	31.66
3	2416	90	-120	-0.30	90	0	-17.84	-4.78	33.27
4	2424	90	-120	-0.27	90	0	-17.86	-4.77	33.36
5	2432	90	-120	-0.09	90	0	-17.73	-4.60	34.65
6	2440	90	-120	-0.16	90	60	-17.31	-4.61	34.58
7	2448	90	-120	-0.46	90	60	-18.99	-4.59	34.78
8	2456	90	-120	-0.36	90	60	-21.70	-4.38	36.46
9	2464	90	-120	-0.80	90	60	-16.87	-4.78	33.24
10	2472	90	-120	-0.91	90	60	-19.37	-4.85	32.70
11	2480	90	-120	-0.78	90	60	-20.70	-4.72	33.72
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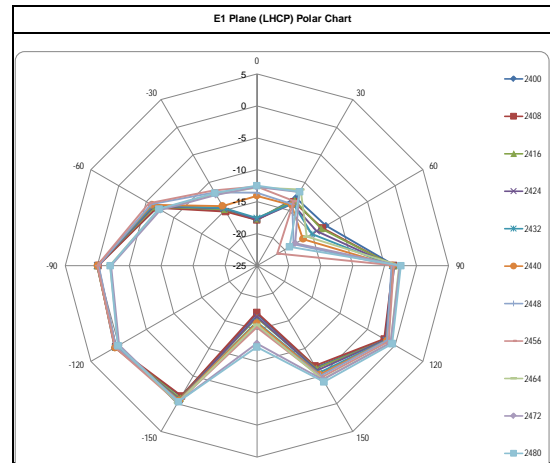
E1 Plane (Horizontal)									
No	Frequency [MHz]	Maximum Value		Minimum Value		Avg. Gain [dB]	Efficiency [%]		
		Θ [Deg]	Φ [Deg]	Θ [Deg]	Φ [Deg]				
1	2400	90	-120	-0.06	90	180	-17.86	-4.75	33.53
2	2408	90	-120	-0.14	90	0	-17.94	-4.80	33.11
3	2416	90	-120	-0.09	90	0	-17.87	-4.68	34.02
4	2424	90	-120	-0.16	90	0	-17.85	-4.65	34.26
5	2432	90	-120	-0.14	90	0	-17.59	-4.57	34.91
6	2440	90	-120	0.01	90	0	-16.84	-4.41	36.26
7	2448	90	-120	-0.24	90	60	-18.48	-4.58	34.84
8	2456	90	-120	-0.05	90	60	-21.72	-4.37	36.56
9	2464	90	-120	-0.59	90	60	-16.38	-4.54	35.16
10	2472	90	-120	-0.64	90	60	-18.28	-4.55	35.09
11	2480	90	-120	-0.65	90	60	-19.12	-4.49	35.54
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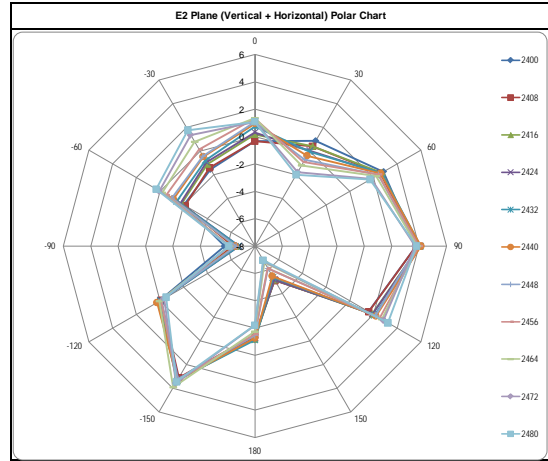
E1 Plane (RHCP)									
No	Frequency [MHz]	Maximum Value		Minimum Value		Avg. Gain [dB]	Efficiency [%]		
		Θ [Deg]	Φ [Deg]	Θ [Deg]	Φ [Deg]				
1	2400	90	-90	-0.95	90	180	-18.39	-5.39	28.88
2	2408	90	-90	-1.12	90	180	-18.42	-5.57	27.73
3	2416	90	-90	-1.07	90	0	-18.04	-5.46	28.43
4	2424	90	-90	-1.02	90	0	-18.09	-5.42	28.68
5	2432	90	-90	-0.97	90	0	-17.77	-5.27	29.69
6	2440	90	-90	-0.93	90	0	-20.74	-5.20	30.22
7	2448	90	-90	-1.28	90	0	-19.59	-5.36	29.11
8	2456	90	-90	-1.13	90	60	-22.18	-5.17	30.37
9	2464	90	-150	-1.51	90	60	-17.39	-5.42	28.74
10	2472	90	-120	-1.63	90	60	-19.69	-5.42	28.71
11	2480	90	-120	-1.75	90	60	-20.72	-5.43	28.67
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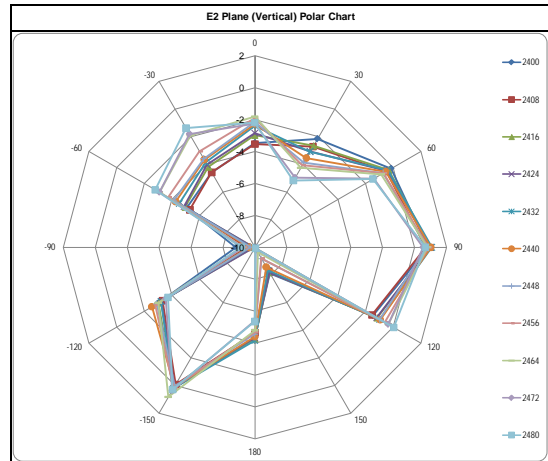
E1 Plane (LHCP)									
No	Frequency	Maximum Value			Minimum Value			Avg. Gain	Efficiency
		[MHz]	Θ [Deg]	Φ [Deg]	Value[dBi]	Θ [Deg]	Φ [Deg]		
1	2400	90	-120	0.71	90	0	-17.87	-4.16	38.39
2	2408	90	-120	0.48	90	0	-17.85	-4.31	37.05
3	2416	90	-120	0.55	90	0	-17.67	-4.10	38.86
4	2424	90	-120	0.52	90	0	-17.73	-4.10	38.94
5	2432	90	-120	0.62	90	0	-17.55	-3.99	39.87
6	2440	90	-120	0.69	90	60	-16.64	-3.91	40.61
7	2448	90	-120	0.48	90	60	-18.34	-3.92	40.51
8	2456	90	-120	0.62	90	60	-21.29	-3.70	42.64
9	2464	90	-120	0.01	90	60	-15.96	-4.02	39.66
10	2472	90	-120	-0.06	90	60	-18.05	-4.08	39.08
11	2480	90	-120	0.12	90	60	-19.10	-3.92	40.59
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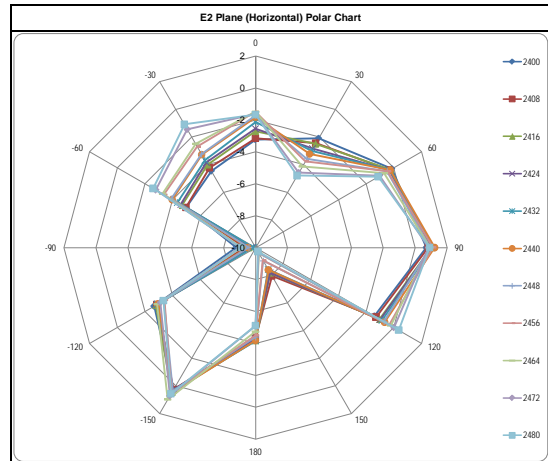
E2 Plane (Vertical + Horizontal)									
No	Frequency [MHz]	Maximum Value			Minimum Value			Avg. Gain [dB]	Efficiency [%]
		Θ [Deg]	Φ [Deg]	Value[dB]	Θ [Deg]	Φ [Deg]	Value[dB]		
1	2400	90	90	3.78	90	-90	-5.79	0.58	114.30
2	2408	90	90	3.78	90	-90	-6.39	0.45	110.92
3	2416	90	90	4.02	90	-90	-6.63	0.67	116.65
4	2424	90	90	4.04	90	-90	-6.84	0.62	115.27
5	2432	90	90	4.10	90	-90	-6.81	0.72	118.16
6	2440	90	90	4.13	90	-90	-6.57	0.79	119.89
7	2448	90	90	3.87	90	-90	-6.65	0.65	116.01
8	2456	90	90	4.01	90	-90	-6.17	0.82	120.66
9	2464	90	-150	3.93	90	150	-6.60	0.94	124.08
10	2472	90	90	3.71	90	150	-6.74	0.79	119.68
11	2480	90	90	3.80	90	150	-6.81	0.86	121.94
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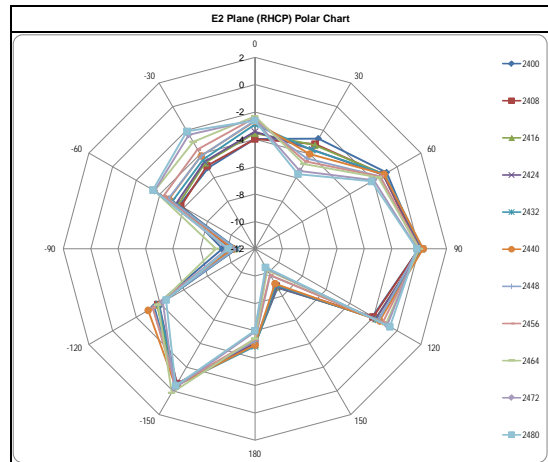
E2 Plane (Vertical)									
No	Frequency [MHz]	Maximum Value			Minimum Value			Avg. Gain [dB]	Efficiency [%]
		Θ [Deg]	Φ [Deg]	Value[dB]	Θ [Deg]	Φ [Deg]	Value[dB]		
1	2400	90	90	0.85	90	-90	-8.82	-2.45	56.85
2	2408	90	90	0.72	90	-90	-9.50	-2.70	53.75
3	2416	90	90	1.01	90	-90	-9.70	-2.41	57.39
4	2424	90	90	1.01	90	-90	-9.91	-2.48	56.50
5	2432	90	90	1.09	90	-90	-9.77	-2.34	58.29
6	2440	90	90	1.03	90	-90	-9.66	-2.35	58.23
7	2448	90	90	0.77	90	-90	-9.73	-2.47	56.58
8	2456	90	90	0.89	90	-90	-9.31	-2.31	58.76
9	2464	90	-150	0.84	90	150	-9.64	-2.11	61.53
10	2472	90	90	0.55	90	150	-9.90	-2.41	57.42
11	2480	90	90	0.69	90	150	-9.92	-2.30	58.90
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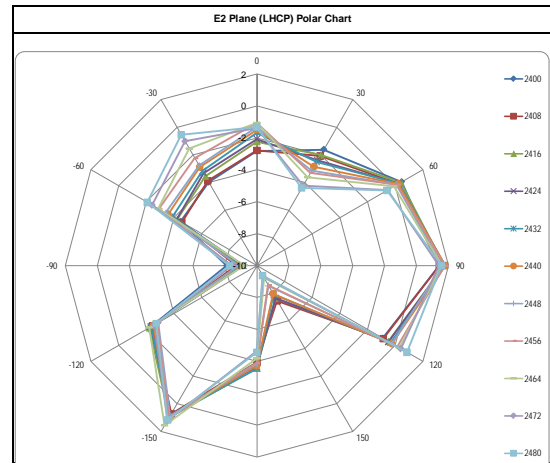
E2 Plane (Horizontal)									
No	Frequency [MHz]	Maximum Value			Minimum Value			Avg. Gain [dB]	Efficiency [%]
		Θ [Deg]	Φ [Deg]	Value[dB]	Θ [Deg]	Φ [Deg]	Value[dB]		
1	2400	90	90	0.69	90	-90	-8.78	-2.41	57.44
2	2408	90	90	0.83	90	-90	-9.31	-2.43	57.16
3	2416	90	90	1.01	90	-90	-9.59	-2.27	59.26
4	2424	90	90	1.06	90	-90	-9.79	-2.31	58.77
5	2432	90	90	1.10	90	-90	-9.97	-2.23	59.87
6	2440	90	90	1.22	90	-90	-9.51	-2.10	61.66
7	2448	90	90	0.95	90	-90	-9.58	-2.26	59.43
8	2456	90	90	1.10	90	150	-9.08	-2.08	61.90
9	2464	90	-150	1.00	90	150	-9.59	-2.04	62.55
10	2472	90	90	0.84	90	150	-9.61	-2.04	62.47
11	2480	90	90	0.89	90	150	-9.71	-2.00	63.05
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E2 Plane (RHCP)									
No	Frequency [MHz]	Maximum Value			Minimum Value			Avg. Gain [dB]	Efficiency [%]
		Θ [Deg]	Φ [Deg]	Value[dB]	Θ [Deg]	Φ [Deg]	Value[dB]		
1	2400	90	90	0.00	90	-90	-9.61	-3.11	48.85
2	2408	90	90	0.00	90	-90	-10.22	-3.26	47.22
3	2416	90	90	0.15	90	-90	-10.50	-3.11	48.91
4	2424	90	90	0.17	90	-90	-10.67	-3.15	48.37
5	2432	90	90	0.27	90	-90	-10.67	-3.01	50.02
6	2440	90	90	0.31	90	-90	-10.42	-2.89	51.42
7	2448	90	90	-0.05	90	-90	-10.62	-3.11	48.91
8	2456	90	90	0.05	90	-90	-10.10	-2.97	50.51
9	2464	90	-150	0.16	90	150	-10.20	-2.79	52.56
10	2472	90	90	-0.15	90	150	-10.33	-2.96	50.54
11	2480	90	90	-0.16	90	150	-10.43	-2.98	50.29
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E2 Plane (LHCP)									
No	Frequency [MHz]	Maximum Value			Minimum Value			Avg. Gain [dB]	Efficiency [%]
		Θ [Deg]	Φ [Deg]	Value[dBi]	Θ [Deg]	Φ [Deg]	Value[dBi]		
1	2400	90	90	1.43	90	-90	-8.12	-1.84	65.44
2	2408	90	90	1.43	90	-90	-8.72	-1.86	63.70
3	2416	90	90	1.73	90	-90	-8.93	-1.69	67.74
4	2424	90	90	1.75	90	-90	-9.16	-1.75	66.90
5	2432	90	90	1.79	90	-90	-9.11	-1.67	68.13
6	2440	90	90	1.81	90	-90	-8.89	-1.65	68.47
7	2448	90	90	1.62	90	-90	-8.87	-1.73	67.10
8	2456	90	90	1.78	90	150	-8.58	-1.54	70.15
9	2464	90	90	1.58	90	-90	-9.21	-1.46	71.52
10	2472	90	90	1.41	90	150	-9.24	-1.59	69.34
11	2480	90	90	1.57	90	150	-9.28	-1.45	71.65
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Horizontal + Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-0.34	0.88	2.86	3.78	1.57	-5.13	-1.31
30	-1.81	0.51	0.85	3.08	2.23	-6.35	-2.08
60	-6.28	-1.98	-2.21	1.90	2.06	-5.57	-4.79
90	-14.82	-10.16	-10.01	-0.99	0.58	-4.15	-14.85
120	-6.13	-6.02	-26.94	-5.36	-2.29	-1.98	-6.40
150	-1.74	-0.19	-4.54	-6.87	0.33	3.01	-1.61
180	-0.47	-1.51	-2.01	-5.79	0.19	3.26	-0.14
210	-1.69	-2.18	-7.14	-1.66	-4.17	-1.45	-1.00
240	-5.98	-4.10	-3.96	-3.07	1.11	1.38	-5.28
270	-16.72	-12.36	-4.30	2.50	2.96	1.15	-25.44
300	-8.82	-3.32	1.96	5.24	2.98	-1.40	-6.51
330	-1.14	-0.27	3.78	4.90	2.03	-2.90	-1.88
360	-0.34	0.88	2.86	3.78	1.57	-5.13	-1.31
Avg.	-3.73	-2.42	-1.25	1.14	0.85	-0.89	-3.68
Peak Value		5.239	Minimum Value		#####		

Horizontal							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-3.25	-2.11	-0.16	0.69	-1.41	-8.17	-4.34
30	-4.76	-2.43	-2.15	0.09	-0.74	-9.35	-5.08
60	-9.10	-5.04	-5.25	-1.08	-0.95	-8.62	-7.85
90	-17.83	-12.94	-12.89	-4.00	-2.41	-7.11	-17.86
120	-9.12	-9.17	-29.59	-8.38	-5.26	-5.03	-9.52
150	-4.81	-3.16	-7.26	-9.87	-2.62	0.04	-4.51
180	-3.47	-4.47	-4.98	-8.78	-2.66	0.31	-3.22
210	-4.76	-5.19	-10.16	-4.67	-7.23	-4.44	-3.98
240	-8.89	-7.22	-7.05	-6.10	-1.97	-1.56	-8.40
270	-19.70	-15.54	-7.49	-0.59	-0.06	-1.83	-28.84
300	-18.86	-6.29	-1.06	2.21	0.00	-4.37	-9.62
330	-3.99	-3.24	0.82	1.88	-0.99	-5.90	-4.84
360	-3.25	-2.11	-0.16	0.69	-1.41	-8.17	-4.34
Avg.	-6.77	-5.41	-4.24	-1.89	-2.14	-3.87	-6.69
Peak Value		2.211	Minimum Value		#####		

Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-3.47	-2.15	-0.14	0.85	-1.46	-8.11	-4.31
30	-4.89	-2.56	-2.16	0.05	-0.82	-9.37	-5.10
60	-9.48	-4.95	-5.19	-1.14	-0.94	-8.54	-7.74
90	-17.83	-13.42	-13.16	-4.00	-2.44	-7.21	-17.86
120	-9.17	-8.90	-30.34	-8.36	-5.35	-4.96	-9.31
150	-4.69	-3.25	-7.87	-9.89	-2.75	-0.03	-4.73
180	-3.49	-4.58	-5.06	-8.82	-2.98	0.19	-3.07
210	-4.65	-5.19	-10.14	-4.68	-7.14	-4.49	-4.04
240	-9.10	-7.00	-6.90	-6.06	-1.83	-1.71	-8.19

270	-19.76	-15.19	-7.14	-0.43	-0.05	-1.90	-28.08
300	-9.27	-6.37	-1.04	2.25	-0.07	-4.45	-9.42
330	-4.33	-3.32	0.71	1.91	-0.96	-5.93	-4.95
360	-3.47	-2.15	-0.14	0.85	-1.46	-8.11	-4.31
Avg.	-6.70	-5.45	-4.27	-1.85	-2.18	-3.94	-6.68
Peak Value		2.245	Minimum Value		#####		

RHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-3.98	-2.72	-0.88	0.00	-2.06	-8.70	-4.98
30	-5.51	-3.06	-2.96	-0.63	-1.47	-9.95	-5.65
60	-9.93	-5.66	-5.97	-1.75	-1.65	-9.05	-8.49
90	-17.79	-13.64	-13.59	-4.63	-3.16	-7.87	-18.39
120	-9.79	-9.62	-29.98	-9.09	-6.11	-5.55	-10.07
150	-5.39	-3.85	-8.03	-10.66	-3.30	-0.62	-5.30
180	-4.12	-5.17	-5.63	-9.61	-3.50	-0.45	-3.85
210	-5.40	-5.87	-10.71	-5.41	-7.81	-5.03	-4.61
240	-9.71	-7.89	-7.60	-6.90	-2.50	-2.37	-8.90
270	-20.11	-15.80	-7.74	-0.98	-0.99	-2.47	-29.26
300	-10.60	-6.92	-1.64	1.54	-0.77	-5.20	-10.14
330	-4.89	-3.98	0.14	1.21	-1.63	-6.57	-5.53
360	-3.98	-2.72	-0.88	0.00	-2.06	-8.70	-4.98
Avg.	-7.34	-6.06	-4.91	-2.55	-2.87	-4.56	-7.33
Peak Value		1.541	Minimum Value		#####		

LHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.81	-1.62	0.47	1.43	-0.89	-7.65	-3.76
30	-4.23	-2.00	-1.48	0.67	-0.18	-8.83	-4.60
60	-8.73	-4.42	-4.59	-0.55	-0.35	-8.15	-7.20
90	-17.87	-12.75	-12.51	-3.45	-1.80	-6.56	-17.38
120	-8.58	-8.52	-29.91	-7.74	-4.62	-4.50	-8.84
150	-4.19	-2.64	-7.12	-9.22	-2.14	0.55	-4.04
180	-2.93	-3.97	-4.48	-8.12	-2.23	0.86	-2.54
210	-4.10	-4.60	-9.66	-4.05	-6.63	-3.96	-3.48
240	-8.38	-6.44	-6.42	-5.39	-1.38	-1.00	-7.76
270	-19.37	-14.97	-6.92	-0.08	0.71	-1.34	-27.76
300	-13.55	-5.81	-0.53	2.82	0.60	-3.75	-8.98
330	-3.52	-2.67	1.32	2.48	-0.41	-5.35	-4.34
360	-2.81	-1.62	0.47	1.43	-0.89	-7.65	-3.76
Avg.	-6.20	-4.88	-3.69	-1.28	-1.55	-3.34	-6.13
Peak Value		2.822	Minimum Value		#####		

AR							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	23.50	23.96	22.19	21.70	23.51	24.37	23.05

30	22.64	24.27	21.41	22.59	22.58	23.83	24.37
60	23.19	22.97	22.01	23.28	22.51	25.75	22.55
90	46.14	25.83	24.16	23.36	22.19	22.47	24.77
120	23.17	23.95	48.48	22.20	21.35	24.43	23.03
150	23.25	23.15	25.58	21.68	23.48	23.42	22.78
180	23.28	23.21	23.59	21.31	22.74	22.48	22.46
210	22.54	22.72	24.40	22.13	23.39	24.15	23.82
240	22.35	21.59	23.33	21.24	23.77	22.07	23.67
270	27.42	26.47	26.54	25.65	20.23	23.76	21.27
300	15.49	23.95	23.96	22.66	22.09	21.59	23.53
330	22.06	22.43	23.36	22.67	23.12	23.07	23.31
360	23.50	23.96	22.19	21.70	23.51	24.37	23.05
Avg.	35.24	23.57	37.50	22.37	22.33	23.25	22.96
Peak Value		48.479	Minimum Value		15.491		

Horizontal + Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-0.33	0.43	2.61	3.78	1.61	-5.09	-1.49
30	-1.84	-0.08	0.72	3.11	2.21	-6.62	-2.25
60	-6.40	-2.60	-2.26	1.85	1.89	-5.94	-5.03
90	-15.04	-10.86	-10.68	-1.20	0.42	-4.40	-15.00
120	-6.02	-5.85	-23.94	-5.86	-2.75	-2.35	-6.61
150	-1.60	-0.07	-4.73	-7.39	-0.07	2.86	-1.80
180	-0.29	-1.39	-2.12	-6.39	-0.08	3.11	-0.32
210	-1.53	-2.50	-7.51	-1.98	-4.57	-1.80	-1.21
240	-5.88	-4.39	-4.04	-3.27	0.85	1.21	-5.52
270	-16.64	-12.59	-4.32	2.40	2.73	1.08	-25.03
300	-9.28	-3.83	1.86	5.14	2.93	-1.33	-6.64
330	-1.61	-0.63	3.65	4.84	2.03	-2.93	-2.11
360	-0.33	0.43	2.61	3.78	1.61	-5.09	-1.49
Avg.	-3.73	-2.72	-1.39	1.05	0.69	-1.05	-3.87
Peak Value		5.136	Minimum Value		#####		

Horizontal							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-3.16	-2.45	-0.31	0.83	-1.28	-7.95	-4.37
30	-4.66	-2.96	-2.12	0.23	-0.68	-9.52	-5.12
60	-9.15	-5.54	-5.22	-1.03	-1.01	-8.87	-7.96
90	-17.94	-13.48	-13.58	-4.12	-2.45	-7.34	-17.83
120	-8.88	-8.92	-26.31	-8.81	-5.62	-5.33	-9.59
150	-4.55	-2.96	-7.43	-10.32	-2.94	0.00	-4.61
180	-3.21	-4.22	-4.97	-9.31	-2.87	0.28	-3.24
210	-4.50	-5.41	-10.38	-4.90	-7.49	-4.68	-4.11
240	-8.71	-7.44	-7.08	-6.21	-2.09	-1.65	-8.63
270	-19.39	-15.53	-7.35	-0.58	-0.14	-1.83	-27.91
300	-19.01	-6.72	-1.04	2.21	-0.01	-4.24	-9.67
330	-4.72	-3.50	0.76	1.90	-0.92	-5.84	-4.96
360	-3.16	-2.45	-0.31	0.83	-1.28	-7.95	-4.37
Avg.	-6.71	-5.62	-4.29	-1.88	-2.20	-3.93	-6.77
Peak Value		2.210	Minimum Value		#####		

Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-3.53	-2.71	-0.49	0.72	-1.52	-8.26	-4.65
30	-5.05	-3.23	-2.47	-0.04	-0.93	-9.73	-5.40
60	-9.69	-5.68	-5.32	-1.29	-1.22	-9.03	-8.13
90	-18.16	-14.29	-13.79	-4.30	-2.74	-7.49	-18.20
120	-9.19	-8.79	-27.71	-8.93	-5.89	-5.39	-9.64
150	-4.67	-3.21	-8.09	-10.47	-3.22	-0.30	-5.02
180	-3.39	-4.58	-5.30	-9.50	-3.32	-0.08	-3.42
210	-4.58	-5.62	-10.66	-5.07	-7.67	-4.95	-4.33
240	-9.07	-7.37	-7.03	-6.35	-2.24	-1.95	-8.43

270	-19.93	-15.67	-7.30	-0.64	-0.43	-2.03	-28.17
300	-9.77	-6.97	-1.26	2.04	-0.15	-4.45	-9.63
330	-4.52	-3.78	0.51	1.76	-1.05	-6.04	-5.29
360	-3.53	-2.71	-0.49	0.72	-1.52	-8.26	-4.65
Avg.	-6.76	-5.85	-4.52	-2.04	-2.43	-4.19	-6.99
Peak Value		2.039	Minimum Value		#####		

RHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-3.99	-3.17	-1.17	0.00	-2.01	-8.85	-5.15
30	-5.50	-3.67	-3.09	-0.59	-1.48	-10.30	-5.89
60	-10.00	-6.27	-6.00	-1.79	-1.83	-9.52	-8.67
90	-18.26	-14.33	-14.25	-4.88	-3.33	-8.09	-18.42
120	-9.77	-9.48	-27.16	-9.68	-6.54	-5.99	-10.34
150	-5.25	-3.74	-8.25	-11.27	-3.69	-0.79	-5.51
180	-3.96	-5.02	-5.77	-10.22	-3.82	-0.62	-4.05
210	-5.25	-6.18	-11.07	-5.74	-8.25	-5.40	-4.89
240	-9.61	-8.28	-7.70	-7.15	-2.86	-2.56	-9.20
270	-20.12	-16.01	-7.85	-1.12	-1.22	-2.51	-28.27
300	-10.94	-7.44	-1.74	1.45	-0.77	-5.07	-10.31
330	-5.23	-4.37	0.00	1.15	-1.65	-6.53	-5.82
360	-3.99	-3.17	-1.17	0.00	-2.01	-8.85	-5.15
Avg.	-7.34	-6.37	-5.07	-2.65	-3.03	-4.73	-7.56
Peak Value		1.447	Minimum Value		#####		

LHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.78	-2.06	0.26	1.43	-0.86	-7.46	-3.94
30	-4.30	-2.59	-1.61	0.69	-0.21	-9.04	-4.71
60	-8.89	-5.04	-4.64	-0.60	-0.50	-8.45	-7.49
90	-17.85	-13.44	-13.19	-3.63	-1.96	-6.83	-17.64
120	-8.41	-8.31	-26.76	-8.18	-5.09	-4.81	-9.00
150	-4.05	-2.52	-7.29	-9.67	-2.54	0.42	-4.21
180	-2.72	-3.86	-4.57	-8.72	-2.47	0.72	-2.72
210	-3.93	-4.94	-10.03	-4.34	-7.00	-4.30	-3.64
240	-8.27	-6.68	-6.50	-5.55	-1.56	-1.15	-7.95
270	-19.22	-15.22	-6.86	-0.15	0.48	-1.42	-27.81
300	-14.26	-6.32	-0.64	2.71	0.52	-3.72	-9.08
330	-4.08	-3.01	1.19	2.42	-0.41	-5.41	-4.52
360	-2.78	-2.06	0.26	1.43	-0.86	-7.46	-3.94
Avg.	-6.21	-5.17	-3.82	-1.37	-1.70	-3.48	-6.30
Peak Value		2.712	Minimum Value		#####		

AR							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	23.21	23.93	21.76	21.69	23.56	21.95	23.16

30	23.22	24.18	21.42	22.63	22.70	22.82	23.40
60	23.94	22.99	22.17	23.26	22.31	24.19	23.38
90	32.64	25.85	24.23	22.90	22.06	22.85	26.96
120	22.14	23.41	32.69	21.28	21.57	23.34	22.26
150	23.21	23.08	25.16	20.74	23.58	23.16	22.50
180	22.90	23.50	23.27	21.31	22.17	22.29	22.35
210	22.39	22.97	24.49	21.91	22.82	23.99	22.89
240	22.29	20.71	23.23	20.76	22.51	21.78	22.90
270	25.71	26.91	24.85	25.10	20.21	24.04	31.53
300	14.47	23.79	23.96	22.77	22.57	22.20	23.05
330	23.63	22.19	23.30	22.75	22.92	23.80	22.52
360	23.21	23.93	21.76	21.69	23.56	21.95	23.16
Avg.	24.93	23.56	25.27	22.09	22.15	22.76	24.72
Peak Value		32.690	Minimum Value		14.474		

Horizontal + Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	0.17	0.43	2.73	4.02	1.92	-5.16	-1.21
30	-1.34	-0.25	0.90	3.37	2.46	-6.70	-1.86
60	-5.68	-2.75	-2.09	2.06	2.10	-5.80	-4.68
90	-14.84	-10.60	-11.07	-1.23	0.66	-4.01	-14.32
120	-5.81	-5.51	-19.16	-6.15	-2.73	-2.03	-6.47
150	-1.26	0.25	-4.70	-7.48	-0.08	3.07	-1.68
180	0.05	-1.09	-1.82	-6.63	0.10	3.34	-0.27
210	-1.21	-2.72	-7.99	-1.96	-4.65	-1.65	-1.18
240	-5.50	-4.51	-4.12	-3.23	0.78	1.51	-5.47
270	-16.27	-12.36	-4.10	2.52	2.82	1.40	-23.97
300	-8.80	-3.92	2.05	5.31	3.18	-0.95	-6.23
330	-1.17	-0.51	3.83	5.04	2.26	-2.90	-1.92
360	0.17	0.43	2.73	4.02	1.92	-5.16	-1.21
Avg.	-3.32	-2.67	-1.24	1.21	0.86	-0.81	-3.69
Peak Value		5.309		Minimum Value		#####	

Horizontal							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.72	-2.50	-0.24	1.01	-1.03	-8.16	-4.17
30	-4.23	-3.18	-2.02	0.45	-0.51	-9.67	-4.81
60	-8.57	-5.75	-5.15	-0.88	-0.87	-8.69	-7.70
90	-17.87	-13.30	-14.07	-4.21	-2.23	-7.02	-17.22
120	-8.68	-8.62	-22.10	-9.09	-5.67	-5.08	-9.45
150	-4.27	-2.68	-7.46	-10.46	-3.02	0.12	-4.59
180	-2.94	-4.01	-4.70	-9.59	-2.80	0.45	-3.23
210	-4.22	-5.66	-10.95	-4.98	-7.56	-4.59	-4.13
240	-8.43	-7.53	-7.22	-6.24	-2.16	-1.38	-8.62
270	-18.97	-15.39	-7.14	-0.51	-0.09	-1.58	-26.60
300	-18.44	-6.86	-0.94	2.33	0.12	-3.94	-9.43
330	-4.37	-3.41	0.87	2.04	-0.75	-5.93	-4.83
360	-2.72	-2.50	-0.24	1.01	-1.03	-8.16	-4.17
Avg.	-6.37	-5.61	-4.21	-1.77	-2.10	-3.76	-6.66
Peak Value		2.331		Minimum Value		#####	

Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.97	-2.65	-0.32	1.01	-1.15	-8.17	-4.26
30	-4.48	-3.35	-2.21	0.26	-0.59	-9.75	-4.93
60	-8.80	-5.78	-5.05	-1.02	-0.95	-8.94	-7.68
90	-17.84	-13.94	-14.09	-4.27	-2.47	-7.02	-17.44
120	-8.96	-8.43	-22.24	-9.25	-5.81	-5.01	-9.51
150	-4.27	-2.85	-7.98	-10.52	-3.15	-0.01	-4.79
180	-2.99	-4.19	-4.96	-9.70	-3.03	0.21	-3.34
210	-4.21	-5.79	-11.05	-4.97	-7.77	-4.74	-4.24
240	-8.58	-7.52	-7.05	-6.24	-2.30	-1.61	-8.35

270	-19.62	-15.34	-7.07	-0.48	-0.30	-1.64	-27.39
300	-9.30	-7.00	-0.98	2.27	0.22	-3.99	-9.06
330	-4.00	-3.64	0.78	2.02	-0.76	-5.89	-5.04
360	-2.97	-2.65	-0.32	1.01	-1.15	-8.17	-4.26
Avg.	-6.29	-5.75	-4.30	-1.83	-2.20	-3.88	-6.74
Peak Value		2.268	Minimum Value		#####		

RHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-3.55	-3.25	-1.11	0.15	-1.78	-8.78	-4.98
30	-5.06	-3.94	-2.95	-0.41	-1.33	-10.45	-5.58
60	-9.38	-6.49	-5.89	-1.67	-1.69	-9.45	-8.41
90	-18.04	-14.05	-14.89	-4.99	-3.15	-7.78	-17.91
120	-9.57	-9.23	-22.39	-10.05	-6.58	-5.75	-10.16
150	-5.00	-3.46	-8.37	-11.46	-3.86	-0.69	-5.42
180	-3.72	-4.74	-5.53	-10.50	-3.75	-0.43	-4.05
210	-5.01	-6.46	-11.55	-5.79	-8.36	-5.29	-4.93
240	-9.23	-8.45	-7.84	-7.23	-3.01	-2.34	-9.28
270	-19.92	-15.99	-7.72	-1.07	-1.10	-2.31	-27.47
300	-10.49	-7.68	-1.59	1.55	-0.63	-4.76	-9.96
330	-4.87	-4.32	0.11	1.28	-1.50	-6.64	-5.70
360	-3.55	-3.25	-1.11	0.15	-1.78	-8.78	-4.98
Avg.	-7.00	-6.40	-4.98	-2.56	-2.94	-4.56	-7.44
Peak Value		1.548	Minimum Value		#####		

LHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.24	-1.99	0.42	1.73	-0.49	-7.63	-3.57
30	-3.74	-2.68	-1.41	1.01	0.11	-9.08	-4.25
60	-8.09	-5.15	-4.43	-0.33	-0.26	-8.26	-7.07
90	-17.67	-13.22	-13.40	-3.60	-1.67	-6.38	-16.82
120	-8.18	-7.92	-21.96	-8.43	-5.04	-4.44	-8.89
150	-3.66	-2.16	-7.14	-9.70	-2.43	0.70	-4.07
180	-2.32	-3.54	-4.23	-8.93	-2.21	0.98	-2.63
210	-3.55	-5.11	-10.51	-4.28	-7.07	-4.12	-3.55
240	-7.89	-6.76	-6.53	-5.44	-1.57	-0.79	-7.80
270	-18.72	-14.82	-6.57	0.01	0.55	-1.01	-26.53
300	-13.71	-6.30	-0.41	2.94	0.85	-3.29	-8.63
330	-3.58	-2.85	1.43	2.68	-0.11	-5.29	-4.28
360	-2.24	-1.99	0.42	1.73	-0.49	-7.63	-3.57
Avg.	-5.75	-5.07	-3.63	-1.15	-1.48	-3.19	-6.06
Peak Value		2.939	Minimum Value		#####		

AR							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	22.43	22.85	21.11	20.83	22.60	23.59	21.86

30	22.41	22.78	21.07	21.77	21.65	22.13	22.36
60	22.61	22.26	21.53	22.26	21.71	23.29	22.30
90	33.35	26.43	21.35	21.96	21.43	21.84	24.01
120	21.96	22.45	32.03	20.59	21.08	22.47	22.71
150	22.27	22.54	23.03	19.91	21.76	21.95	22.19
180	21.94	23.21	22.51	20.89	21.05	21.83	21.79
210	21.54	22.20	24.51	21.24	22.60	23.40	22.05
240	22.26	20.23	22.42	19.76	21.67	21.03	21.42
270	23.24	23.43	23.55	24.08	20.50	22.55	25.38
300	14.73	21.99	23.32	21.95	21.43	21.50	22.30
330	22.60	21.45	22.41	21.89	21.95	22.24	21.80
360	22.43	22.85	21.11	20.83	22.60	23.59	21.86
Avg.	24.78	22.56	24.40	21.23	21.31	22.04	22.32
Peak Value		33.348	Minimum Value		14.730		

Horizontal + Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	0.31	0.05	2.63	4.04	1.93	-5.17	-1.30
30	-1.17	-0.83	0.88	3.42	2.42	-6.76	-1.88
60	-5.50	-3.36	-2.15	2.07	2.00	-5.71	-4.83
90	-14.90	-11.25	-11.85	-1.37	0.62	-3.77	-14.50
120	-5.51	-5.27	-17.06	-6.40	-2.93	-1.96	-6.56
150	-1.03	0.41	-4.71	-7.63	-0.31	3.03	-1.73
180	0.31	-0.92	-1.73	-6.84	-0.05	3.21	-0.33
210	-0.87	-2.97	-8.38	-2.00	-5.01	-1.64	-1.24
240	-5.05	-4.59	-4.20	-3.21	0.60	1.73	-5.40
270	-15.80	-12.23	-3.89	2.53	2.80	1.58	-20.42
300	-8.77	-4.32	2.05	5.32	3.14	-0.87	-6.11
330	-1.08	-0.75	3.77	5.07	2.18	-2.95	-2.00
360	0.31	0.05	2.63	4.04	1.93	-5.17	-1.30
Avg.	-3.10	-2.87	-1.28	1.22	0.78	-0.77	-3.74
Peak Value		5.319		Minimum Value		#####	

Horizontal							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.56	-2.85	-0.32	1.06	-0.99	-8.17	-4.28
30	-4.02	-3.68	-2.04	0.49	-0.50	-9.70	-4.83
60	-8.37	-6.39	-5.22	-0.84	-0.93	-8.55	-7.90
90	-17.85	-14.02	-14.61	-4.30	-2.28	-6.75	-17.43
120	-8.37	-8.38	-20.10	-9.33	-5.93	-4.99	-9.58
150	-4.04	-2.49	-7.41	-10.58	-3.21	0.13	-4.63
180	-2.65	-3.84	-4.60	-9.79	-2.89	0.31	-3.27
210	-3.85	-5.93	-11.41	-4.99	-7.91	-4.59	-4.17
240	-7.97	-7.58	-7.28	-6.18	-2.29	-1.15	-8.46
270	-18.52	-15.27	-6.87	-0.48	-0.16	-1.35	-23.18
300	-18.09	-7.19	-0.95	2.34	0.11	-3.87	-9.23
330	-4.26	-3.62	0.81	2.07	-0.79	-5.95	-4.91
360	-2.56	-2.85	-0.32	1.06	-0.99	-8.17	-4.28
Avg.	-6.12	-5.80	-4.24	-1.75	-2.16	-3.70	-6.70
Peak Value		2.342		Minimum Value		#####	

Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.85	-3.06	-0.45	1.01	-1.18	-8.18	-4.34
30	-4.35	-4.00	-2.24	0.33	-0.67	-9.85	-4.95
60	-8.66	-6.35	-5.10	-1.03	-1.09	-8.90	-7.77
90	-17.96	-14.52	-15.12	-4.46	-2.50	-6.81	-17.60
120	-8.68	-8.18	-20.04	-9.50	-5.96	-4.94	-9.56
150	-4.05	-2.71	-8.05	-10.70	-3.44	-0.08	-4.85
180	-2.76	-4.01	-4.89	-9.91	-3.23	0.09	-3.42
210	-3.91	-6.04	-11.37	-5.04	-8.14	-4.72	-4.32
240	-8.15	-7.62	-7.15	-6.26	-2.54	-1.42	-8.36

270	-19.11	-15.20	-6.92	-0.49	-0.27	-1.51	-23.70
300	-9.32	-7.48	-0.97	2.28	0.16	-3.89	-9.01
330	-3.93	-3.89	0.72	2.04	-0.88	-5.96	-5.12
360	-2.85	-3.06	-0.45	1.01	-1.18	-8.18	-4.34
Avg.	-6.10	-5.98	-4.35	-1.83	-2.30	-3.86	-6.80
Peak Value		2.275	Minimum Value		#####		

RHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-3.43	-3.61	-1.16	0.17	-1.79	-8.78	-5.05
30	-4.89	-4.49	-2.95	-0.35	-1.38	-10.52	-5.57
60	-9.22	-7.04	-5.98	-1.68	-1.78	-9.26	-8.58
90	-18.09	-14.73	-15.64	-5.12	-3.14	-7.60	-18.04
120	-9.29	-8.93	-20.55	-10.27	-6.82	-5.73	-10.19
150	-4.78	-3.30	-8.42	-11.57	-4.10	-0.74	-5.50
180	-3.46	-4.65	-5.37	-10.67	-3.91	-0.56	-4.10
210	-4.66	-6.74	-11.95	-5.84	-8.59	-5.25	-5.00
240	-8.83	-8.48	-7.97	-7.15	-3.15	-2.11	-9.25
270	-19.26	-15.90	-7.46	-1.02	-1.09	-2.16	-23.73
300	-10.27	-8.09	-1.58	1.54	-0.76	-4.64	-9.87
330	-4.80	-4.52	0.03	1.30	-1.60	-6.74	-5.81
360	-3.43	-3.61	-1.16	0.17	-1.79	-8.78	-5.05
Avg.	-6.79	-6.59	-5.01	-2.56	-3.03	-4.53	-7.49
Peak Value		1.543	Minimum Value		#####		

LHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.08	-2.39	0.28	1.75	-0.47	-7.64	-3.68
30	-3.57	-3.27	-1.45	1.07	0.08	-9.14	-4.30
60	-7.90	-5.79	-4.47	-0.30	-0.36	-8.24	-7.20
90	-17.73	-13.83	-14.19	-3.74	-1.75	-6.09	-17.04
120	-7.87	-7.71	-19.63	-8.70	-5.21	-4.32	-9.03
150	-3.42	-1.99	-7.12	-9.88	-2.67	0.67	-4.09
180	-2.06	-3.30	-4.19	-9.16	-2.34	0.85	-2.70
210	-3.22	-5.34	-10.89	-4.32	-7.52	-4.13	-3.61
240	-7.41	-6.87	-6.57	-5.46	-1.79	-0.59	-7.70
270	-18.40	-14.66	-6.40	-0.01	0.52	-0.81	-23.15
300	-14.13	-6.68	-0.42	2.96	0.87	-3.23	-8.48
330	-3.48	-3.11	1.39	2.71	-0.18	-5.29	-4.34
360	-2.08	-2.39	0.28	1.75	-0.47	-7.64	-3.68
Avg.	-5.53	-5.28	-3.67	-1.15	-1.56	-3.14	-6.11
Peak Value		2.960	Minimum Value		#####		

AR							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	22.17	23.03	21.64	20.85	22.41	23.66	22.07

30	22.43	23.03	21.25	21.78	21.52	22.00	22.70
60	22.44	22.87	21.22	21.99	21.72	24.66	22.05
90	33.57	25.72	21.58	21.98	21.92	21.28	24.75
120	21.79	23.08	25.52	20.86	20.68	21.78	23.53
150	22.15	22.45	22.54	20.29	21.71	21.85	21.85
180	21.94	22.20	23.35	21.22	20.90	21.81	21.93
210	21.64	21.91	24.33	21.16	24.19	23.90	21.93
240	21.76	20.69	21.92	20.24	22.13	21.20	21.02
270	26.12	22.89	24.29	24.73	20.69	22.21	29.60
300	13.20	21.86	23.46	21.79	20.59	21.84	21.90
330	22.42	21.83	22.11	21.82	21.75	21.59	21.48
360	22.17	23.03	21.64	20.85	22.41	23.66	22.07
Avg.	25.05	22.45	22.64	21.38	21.45	22.11	23.38
Peak Value		33.570	Minimum Value		13.197		

Horizontal + Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	0.75	-0.03	2.68	4.10	2.09	-5.37	-1.14
30	-0.64	-1.08	0.96	3.52	2.55	-6.79	-1.69
60	-4.86	-3.58	-2.15	2.13	2.15	-5.20	-4.61
90	-14.65	-11.13	-12.53	-1.41	0.80	-3.21	-13.61
120	-5.35	-5.16	-14.38	-6.48	-2.87	-1.60	-6.43
150	-0.86	0.62	-4.59	-7.33	-0.41	3.24	-1.67
180	0.49	-0.76	-1.42	-6.81	-0.04	3.29	-0.28
210	-0.57	-3.23	-8.88	-1.94	-5.08	-1.24	-1.21
240	-4.75	-4.77	-4.26	-3.24	0.61	2.07	-5.29
270	-15.05	-12.04	-3.65	2.54	2.89	1.75	-18.73
300	-8.30	-4.36	2.17	5.40	3.12	-0.80	-5.81
330	-0.73	-0.72	3.81	5.13	2.19	-2.99	-1.83
360	0.75	-0.03	2.68	4.10	2.09	-5.37	-1.14
Avg.	-2.76	-2.90	-1.20	1.27	0.85	-0.57	-3.61
Peak Value		5.398	Minimum Value		#####		

Horizontal							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.13	-3.01	-0.30	1.10	-0.87	-8.41	-4.15
30	-3.52	-3.96	-2.02	0.56	-0.41	-9.77	-4.65
60	-7.77	-6.64	-5.24	-0.81	-0.83	-8.09	-7.67
90	-17.59	-13.95	-15.25	-4.38	-2.15	-6.19	-16.49
120	-8.29	-8.27	-17.42	-9.41	-5.89	-4.62	-9.53
150	-3.87	-2.33	-7.25	-10.32	-3.33	0.31	-4.62
180	-2.50	-3.68	-4.34	-9.87	-2.90	0.37	-3.26
210	-3.61	-6.18	-11.92	-4.96	-8.06	-4.23	-4.15
240	-7.66	-7.80	-7.33	-6.23	-2.36	-0.85	-8.36
270	-17.89	-15.09	-6.68	-0.53	-0.14	-1.17	-21.81
300	-17.21	-7.21	-0.86	2.38	0.14	-3.83	-8.93
330	-3.94	-3.68	0.81	2.11	-0.80	-5.99	-4.74
360	-2.13	-3.01	-0.30	1.10	-0.87	-8.41	-4.15
Avg.	-5.81	-5.85	-4.19	-1.73	-2.13	-3.52	-6.59
Peak Value		2.380	Minimum Value		#####		

Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.40	-3.08	-0.37	1.09	-0.97	-8.35	-4.15
30	-3.78	-4.22	-2.07	0.46	-0.52	-9.84	-4.75
60	-7.98	-6.55	-5.08	-0.94	-0.89	-8.34	-7.56
90	-17.73	-14.34	-15.85	-4.47	-2.27	-6.25	-16.75
120	-8.43	-8.07	-17.36	-9.58	-5.86	-4.61	-9.35
150	-3.87	-2.45	-7.97	-10.35	-3.52	0.15	-4.73
180	-2.54	-3.86	-4.52	-9.77	-3.21	0.19	-3.31
210	-3.56	-6.31	-11.86	-4.94	-8.13	-4.27	-4.29
240	-7.87	-7.77	-7.21	-6.27	-2.45	-1.04	-8.24

270	-18.24	-15.01	-6.63	-0.41	-0.09	-1.35	-21.67
300	-8.89	-7.54	-0.82	2.39	0.09	-3.79	-8.72
330	-3.54	-3.77	0.78	2.13	-0.85	-6.00	-4.95
360	-2.40	-3.08	-0.37	1.09	-0.97	-8.35	-4.15
Avg.	-5.73	-5.96	-4.23	-1.74	-2.21	-3.64	-6.64
Peak Value		2.395	Minimum Value		#####		

RHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.92	-3.66	-1.04	0.27	-1.60	-8.92	-4.86
30	-4.29	-4.68	-2.84	-0.23	-1.20	-10.58	-5.37
60	-8.57	-7.27	-6.00	-1.61	-1.57	-8.69	-8.38
90	-17.77	-14.60	-16.06	-5.14	-2.94	-6.99	-17.15
120	-9.09	-8.79	-18.06	-10.26	-6.69	-5.31	-10.05
150	-4.57	-3.04	-8.27	-11.15	-4.13	-0.48	-5.41
180	-3.20	-4.46	-5.04	-10.67	-3.89	-0.46	-3.98
210	-4.31	-6.91	-12.47	-5.74	-8.61	-4.82	-4.92
240	-8.55	-8.60	-7.95	-7.15	-3.01	-1.69	-8.99
270	-18.50	-15.55	-7.16	-0.97	-1.00	-1.94	-22.06
300	-9.80	-8.05	-1.46	1.64	-0.75	-4.60	-9.60
330	-4.43	-4.44	0.08	1.40	-1.54	-6.74	-5.61
360	-2.92	-3.66	-1.04	0.27	-1.60	-8.92	-4.86
Avg.	-6.40	-6.57	-4.90	-2.47	-2.92	-4.29	-7.33
Peak Value		1.643	Minimum Value		#####		

LHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-1.69	-2.50	0.27	1.79	-0.33	-7.89	-3.54
30	-3.09	-3.57	-1.38	1.15	0.17	-9.14	-4.12
60	-7.27	-6.01	-4.45	-0.26	-0.25	-7.78	-6.97
90	-17.55	-13.73	-15.08	-3.81	-1.58	-5.57	-16.14
120	-7.73	-7.63	-16.80	-8.84	-5.19	-4.01	-8.91
150	-3.27	-1.82	-7.02	-9.65	-2.81	0.84	-4.05
180	-1.93	-3.17	-3.90	-9.11	-2.35	0.92	-2.69
210	-2.96	-5.67	-11.38	-4.28	-7.63	-3.75	-3.62
240	-7.10	-7.10	-6.68	-5.51	-1.87	-0.31	-7.71
270	-17.67	-14.60	-6.20	-0.02	0.62	-0.67	-21.44
300	-13.63	-6.78	-0.30	3.02	0.83	-3.15	-8.17
330	-3.14	-3.11	1.41	2.74	-0.21	-5.37	-4.19
360	-1.69	-2.50	0.27	1.79	-0.33	-7.89	-3.54
Avg.	-5.23	-5.33	-3.62	-1.11	-1.52	-2.97	-6.01
Peak Value		3.023	Minimum Value		#####		

AR							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	23.03	23.53	22.42	21.17	22.74	24.54	22.43

30	23.29	23.86	21.55	22.03	22.08	21.66	22.86
60	22.52	22.77	21.01	22.21	22.36	25.59	21.81
90	37.77	26.03	24.97	22.38	22.13	21.79	24.74
120	22.19	23.53	22.79	21.73	21.31	22.54	23.64
150	22.48	23.06	22.91	21.33	22.39	22.41	22.12
180	22.71	22.56	23.68	20.93	21.07	22.04	22.62
210	22.24	22.90	24.07	21.55	24.94	24.21	22.51
240	21.62	21.32	22.78	20.51	23.65	22.04	22.65
270	26.41	25.28	25.16	25.19	20.60	22.75	28.97
300	13.29	22.70	23.49	22.02	20.82	21.58	21.69
330	22.62	22.31	22.37	22.29	22.31	22.09	21.73
360	23.03	23.53	22.42	21.17	22.74	24.54	22.43
Avg.	27.92	23.16	22.92	21.77	22.02	22.62	23.40
Peak Value		37.769	Minimum Value		13.293		

Horizontal + Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	0.96	-0.37	2.62	4.13	2.22	-5.47	-1.28
30	-0.09	-1.41	1.16	3.62	2.66	-6.70	-1.75
60	-4.60	-4.12	-2.33	2.49	2.23	-4.92	-4.72
90	-13.22	-11.42	-13.90	-1.34	0.88	-2.90	-13.49
120	-5.09	-4.91	-12.62	-6.30	-2.96	-1.92	-7.17
150	-0.65	0.49	-5.56	-6.85	-0.55	3.40	-1.51
180	0.67	-0.45	-1.11	-6.57	0.26	3.33	-0.15
210	-0.29	-3.28	-8.87	-1.82	-5.00	-0.95	-1.09
240	-4.46	-4.83	-3.98	-3.12	-0.27	2.28	-5.01
270	-14.29	-11.73	-3.40	2.56	2.94	1.84	-16.36
300	-8.31	-4.58	2.24	5.47	3.11	-0.69	-6.65
330	-0.61	-0.89	3.71	5.17	2.21	-2.91	-2.16
360	0.96	-0.37	2.62	4.13	2.22	-5.47	-1.28
Avg.	-2.50	-3.03	-1.19	1.37	0.84	-0.46	-3.66
Peak Value		5.470		Minimum Value		#####	

Horizontal							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-1.83	-3.23	-0.26	1.22	-0.66	-8.39	-4.19
30	-3.19	-4.44	-1.95	0.75	-0.21	-9.56	-4.63
60	-7.36	-7.07	-5.26	-0.62	-0.69	-7.77	-7.67
90	-16.84	-14.10	-16.56	-4.19	-1.99	-5.76	-16.30
120	-7.92	-7.95	-15.43	-9.20	-5.87	-4.45	-9.21
150	-3.57	-2.70	-9.72	-9.81	-3.33	0.55	-4.34
180	-2.18	-3.27	-3.98	-9.51	-2.96	0.52	-3.06
210	-3.24	-6.18	-11.73	-4.72	-7.95	-3.87	-3.95
240	-7.30	-7.84	-6.80	-6.04	-3.18	-0.57	-8.03
270	-17.10	-14.72	-6.40	-0.42	0.01	-1.00	-19.21
300	-16.82	-7.35	-0.67	2.55	0.25	-3.60	-8.71
330	-3.67	-3.78	0.77	2.23	-0.67	-5.80	-5.27
360	-1.83	-3.23	-0.26	1.22	-0.66	-8.39	-4.19
Avg.	-5.48	-5.98	-4.16	-1.57	-2.06	-3.29	-6.50
Peak Value		2.548		Minimum Value		#####	

Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.28	-3.54	-0.52	1.03	-0.93	-8.57	-4.39
30	-3.02	-4.41	-1.75	0.46	-0.49	-9.86	-4.90
60	-7.88	-7.20	-5.42	-0.43	-0.87	-8.09	-7.79
90	-15.70	-14.79	-17.31	-4.52	-2.28	-6.06	-16.71
120	-8.28	-7.90	-15.83	-9.43	-6.08	-5.46	-11.42
150	-3.76	-2.34	-7.66	-9.91	-3.79	0.21	-4.71
180	-2.50	-3.66	-4.28	-9.66	-2.55	0.10	-3.26
210	-3.36	-6.40	-12.03	-4.93	-8.07	-4.06	-4.26
240	-7.66	-7.85	-7.20	-6.22	-3.38	-0.90	-8.02

270	-17.50	-14.76	-6.42	-0.47	-0.16	-1.34	-19.53
300	-8.97	-7.85	-0.87	2.37	-0.07	-3.81	-10.87
330	-3.57	-4.02	0.63	2.08	-0.94	-6.04	-5.07
360	-2.28	-3.54	-0.52	1.03	-0.93	-8.57	-4.39
Avg.	-5.54	-6.10	-4.25	-1.72	-2.28	-3.65	-6.83
Peak Value		2.369	Minimum Value		#####		

RHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.68	-3.99	-1.10	0.31	-1.45	-9.05	-4.95
30	-3.92	-5.37	-2.53	-0.12	-1.06	-9.44	-5.43
60	-8.29	-7.82	-6.14	-0.98	-1.50	-8.43	-8.46
90	-20.74	-14.85	-17.21	-5.07	-2.88	-6.63	-17.08
120	-8.79	-8.52	-16.33	-10.10	-6.80	-6.31	-11.44
150	-4.31	-3.26	-8.77	-10.70	-4.24	-0.30	-5.25
180	-3.14	-4.15	-4.74	-10.42	-3.00	-0.41	-3.84
210	-4.00	-6.94	-12.40	-5.61	-8.59	-4.54	-4.77
240	-8.19	-8.63	-7.24	-6.96	-3.85	-1.45	-8.64
270	-17.61	-15.33	-6.88	-0.93	-1.00	-1.77	-19.78
300	-9.67	-8.21	-1.38	1.72	-0.68	-4.47	-10.78
330	-4.33	-4.61	0.01	1.45	-1.47	-6.57	-5.71
360	-2.68	-3.99	-1.10	0.31	-1.45	-9.05	-4.95
Avg.	-6.18	-6.75	-4.84	-2.33	-2.86	-4.16	-7.36
Peak Value		1.721	Minimum Value		#####		

LHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-1.49	-2.85	0.22	1.81	-0.22	-7.97	-3.71
30	-2.41	-3.65	-1.26	1.24	0.26	-10.00	-4.18
60	-7.03	-6.54	-4.66	-0.11	-0.16	-7.47	-7.10
90	-14.07	-14.05	-16.64	-3.74	-1.50	-5.29	-15.98
120	-7.50	-7.40	-15.02	-8.65	-5.28	-3.88	-9.21
150	-3.10	-1.89	-8.38	-9.16	-2.97	0.98	-3.89
180	-1.66	-2.87	-3.58	-8.89	-2.52	0.93	-2.57
210	-2.70	-5.72	-11.41	-4.16	-7.49	-3.45	-3.52
240	-6.86	-7.18	-6.76	-5.43	-2.77	-0.12	-7.49
270	-17.00	-14.21	-5.98	-0.01	0.69	-0.64	-18.99
300	-14.01	-7.05	-0.23	3.09	0.76	-3.05	-8.77
330	-3.02	-3.29	1.29	2.76	-0.22	-5.35	-4.68
360	-1.49	-2.85	0.22	1.81	-0.22	-7.97	-3.71
Avg.	-4.94	-5.43	-3.65	-1.04	-1.57	-2.87	-6.06
Peak Value		3.090	Minimum Value		#####		

AR							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	23.31	23.62	22.37	21.30	23.02	24.15	22.92

30	21.29	20.15	22.75	22.16	22.38	29.97	22.92
60	22.77	22.68	21.41	25.96	22.30	25.14	22.15
90	8.72	26.67	29.79	22.36	22.00	22.32	23.96
120	22.62	23.85	22.43	21.56	21.22	17.13	17.87
150	23.14	22.06	32.98	21.05	22.75	22.69	22.13
180	21.38	22.64	23.51	21.13	31.28	22.26	22.76
210	22.48	23.05	24.95	21.61	23.97	23.99	22.91
240	22.38	21.59	31.08	21.15	24.17	22.32	23.57
270	29.17	23.86	25.76	25.61	20.29	23.75	26.77
300	12.22	23.50	23.58	22.08	21.63	21.76	18.78
330	22.46	22.42	22.66	22.43	22.85	23.06	24.51
360	23.31	23.62	22.37	21.30	23.02	24.15	22.92
Avg.	22.74	22.94	26.80	22.37	24.07	23.87	22.79
Peak Value			32.976	Minimum Value		8.723	

Horizontal + Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	1.07	-0.71	2.42	3.87	2.18	-6.10	-1.47
30	0.35	-1.96	0.98	3.43	2.64	-7.06	-1.77
60	-4.32	-4.12	-1.92	2.56	2.32	-5.14	-4.04
90	-12.62	-11.25	-15.72	-1.54	1.07	-2.74	-13.02
120	-6.24	-6.43	-11.18	-5.84	-3.23	-1.94	-7.13
150	-0.78	0.39	-5.34	-6.65	-1.61	2.86	-2.05
180	0.59	-0.40	-1.00	-6.65	-0.12	3.23	-0.32
210	-0.13	-3.51	-8.63	-2.46	-5.34	-0.93	-1.05
240	-4.58	-4.79	-4.26	-2.93	-0.43	1.82	-4.44
270	-12.27	-10.80	-3.37	2.30	2.66	1.89	-15.46
300	-8.09	-4.75	1.71	5.15	2.92	-0.85	-6.63
330	-0.53	-1.37	3.50	5.01	2.32	-3.06	-2.26
360	1.07	-0.71	2.42	3.87	2.18	-6.10	-1.47
Avg.	-2.43	-3.28	-1.35	1.18	0.71	-0.67	-3.69
Peak Value		5.151	Minimum Value		#####		

Horizontal							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-1.74	-3.58	-0.48	0.95	-0.70	-9.04	-4.39
30	-2.50	-5.07	-2.07	0.57	-0.24	-9.92	-4.75
60	-7.13	-6.68	-4.26	-0.29	-0.50	-8.45	-6.46
90	-16.55	-13.95	-18.48	-4.42	-2.05	-5.64	-15.83
120	-10.25	-8.22	-13.71	-9.24	-6.15	-4.55	-9.14
150	-3.72	-2.83	-9.47	-9.71	-5.20	-0.54	-5.23
180	-2.30	-3.24	-3.89	-9.58	-3.37	0.38	-3.22
210	-2.84	-6.63	-12.10	-4.92	-8.33	-4.04	-4.19
240	-7.40	-7.37	-7.17	-5.50	-3.39	-1.36	-6.80
270	-16.50	-14.15	-6.41	-0.70	-0.24	-1.22	-18.34
300	-16.25	-7.59	-0.78	2.35	0.01	-3.76	-8.76
330	-3.55	-4.56	0.60	2.17	-0.61	-5.75	-5.30
360	-1.74	-3.58	-0.48	0.95	-0.70	-9.04	-4.39
Avg.	-5.41	-6.21	-4.21	-1.68	-2.25	-3.71	-6.54
Peak Value		2.346	Minimum Value		#####		

Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.14	-3.86	-0.71	0.77	-0.96	-9.17	-4.57
30	-2.82	-4.88	-1.98	0.26	-0.50	-10.24	-4.81
60	-7.54	-7.64	-5.72	-0.62	-0.89	-7.88	-7.75
90	-14.88	-14.58	-18.99	-4.69	-1.83	-5.86	-16.25
120	-8.44	-11.12	-14.72	-8.50	-6.34	-5.38	-11.44
150	-3.85	-2.42	-7.46	-9.62	-4.11	0.21	-4.91
180	-2.55	-3.59	-4.12	-9.73	-2.90	0.05	-3.46
210	-3.47	-6.41	-11.22	-6.11	-8.37	-3.84	-3.95
240	-7.79	-8.28	-7.37	-6.42	-3.49	-1.02	-8.23

270	-14.34	-13.50	-6.36	-0.71	-0.46	-1.02	-18.60
300	-8.80	-7.95	-1.89	1.93	-0.19	-3.97	-10.75
330	-3.53	-4.21	0.38	1.82	-0.78	-6.42	-5.23
360	-2.14	-3.86	-0.71	0.77	-0.96	-9.17	-4.57
Avg.	-5.48	-6.38	-4.52	-1.99	-2.34	-3.65	-6.88
Peak Value		1.925	Minimum Value		#####		

RHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.64	-4.39	-1.43	-0.05	-1.54	-9.76	-5.23
30	-3.39	-6.01	-2.77	-0.40	-1.14	-9.81	-5.78
60	-8.02	-7.54	-5.72	-1.22	-1.64	-9.60	-7.53
90	-19.59	-14.64	-19.16	-5.35	-2.51	-6.58	-16.58
120	-9.41	-10.74	-16.03	-9.00	-7.12	-6.44	-11.61
150	-4.50	-3.47	-8.48	-10.91	-5.36	-1.05	-5.67
180	-3.32	-4.17	-4.70	-10.62	-3.40	-0.54	-4.13
210	-3.80	-8.31	-16.79	-6.42	-9.15	-6.14	-4.99
240	-8.37	-8.28	-7.51	-5.72	-4.19	-1.90	-7.88
270	-19.22	-17.72	-6.97	-1.28	-1.37	-1.88	-19.10
300	-9.45	-8.53	-1.99	1.66	-0.86	-4.65	-10.75
330	-4.23	-5.10	-0.26	1.07	-1.44	-6.38	-5.79
360	-2.64	-4.39	-1.43	-0.05	-1.54	-9.76	-5.23
Avg.	-6.13	-7.15	-5.11	-2.55	-3.06	-4.57	-7.47
Peak Value		1.661	Minimum Value		#####		

LHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-1.33	-3.13	0.11	1.62	-0.22	-8.54	-3.83
30	-2.03	-4.14	-1.39	1.11	0.28	-10.36	-3.97
60	-6.73	-6.76	-4.26	0.20	0.09	-7.07	-6.62
90	-13.60	-13.91	-18.34	-3.88	-1.44	-5.05	-15.55
120	-9.10	-8.43	-12.90	-8.72	-5.51	-3.84	-9.05
150	-3.17	-1.91	-8.22	-8.70	-4.00	0.59	-4.53
180	-1.68	-2.77	-3.41	-8.87	-2.87	0.86	-2.66
210	-2.57	-5.25	-9.35	-4.69	-7.68	-2.48	-3.30
240	-6.92	-7.37	-7.04	-6.16	-2.80	-0.58	-7.07
270	-13.25	-11.79	-5.87	-0.20	0.48	-0.47	-17.91
300	-13.78	-7.11	-0.70	2.57	0.57	-3.19	-8.75
330	-2.94	-3.77	1.14	2.76	-0.06	-5.79	-4.80
360	-1.33	-3.13	0.11	1.62	-0.22	-8.54	-3.83
Avg.	-4.85	-5.57	-3.72	-1.21	-1.65	-2.94	-6.06
Peak Value		2.765	Minimum Value		#####		

AR							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	22.46	22.81	21.10	20.37	22.36	23.11	21.91

30	22.20	19.39	22.05	21.25	21.82	30.05	19.69
60	22.59	26.99	21.52	21.78	20.08	16.77	25.61
90	9.58	27.56	26.44	21.47	24.23	21.13	24.50
120	34.93	17.58	14.98	35.75	20.67	16.56	16.68
150	22.33	20.91	36.56	17.93	22.13	20.50	23.66
180	20.53	21.87	22.65	19.95	30.32	21.86	21.50
210	23.01	15.16	7.87	20.05	21.44	13.65	20.25
240	21.58	25.67	31.30	32.06	21.98	22.38	26.62
270	9.61	9.65	23.99	24.15	19.50	21.82	23.34
300	12.24	21.81	22.61	25.61	21.72	21.54	18.83
330	22.60	22.33	21.92	20.22	22.04	29.35	24.85
360	22.46	22.81	21.10	20.37	22.36	23.11	21.91
Avg.	25.37	22.69	27.65	27.24	23.24	23.71	22.80
Peak Value		36.560	Minimum Value		7.869		

Horizontal + Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	1.32	-0.90	2.44	4.01	2.55	-6.13	-1.57
30	0.56	-2.41	0.99	3.59	3.01	-6.95	-1.70
60	-4.00	-4.55	-2.06	2.74	2.62	-4.62	-4.19
90	-11.60	-10.77	-18.70	-1.26	1.30	-2.38	-12.83
120	-5.87	-5.92	-9.79	-5.34	-3.23	-1.69	-6.64
150	-0.45	0.78	-4.65	-5.98	-1.59	3.06	-1.66
180	0.88	0.14	-0.54	-6.17	-0.09	3.35	-0.06
210	0.11	-3.29	-8.08	-2.17	-5.19	-0.83	-0.89
240	-4.27	-4.87	-4.07	-2.55	-0.26	2.06	-4.25
270	-11.67	-10.35	-3.10	2.45	2.81	2.09	-13.82
300	-7.91	-4.79	1.91	5.30	3.18	-0.53	-6.50
330	-0.35	-1.47	3.51	5.10	2.61	-3.09	-2.32
360	1.32	-0.90	2.44	4.01	2.55	-6.13	-1.57
Avg.	-2.17	-3.19	-1.22	1.35	0.95	-0.47	-3.56
Peak Value		5.296	Minimum Value		#####		

Horizontal							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-1.49	-3.77	-0.45	1.10	-0.32	-9.08	-4.48
30	-2.28	-5.52	-2.06	0.75	0.11	-9.68	-4.75
60	-6.82	-7.09	-4.40	-0.13	-0.18	-7.93	-6.57
90	-15.38	-13.53	-21.72	-4.14	-1.81	-5.33	-15.60
120	-9.71	-7.71	-12.30	-8.69	-6.14	-4.33	-8.73
150	-3.41	-2.47	-8.73	-9.01	-5.28	-0.35	-4.86
180	-2.00	-2.69	-3.37	-9.06	-3.42	0.50	-2.95
210	-2.61	-6.46	-11.81	-4.64	-8.05	-3.83	-4.08
240	-7.12	-7.45	-7.01	-5.14	-3.17	-1.10	-6.66
270	-15.69	-13.64	-6.14	-0.54	-0.05	-1.06	-16.81
300	-15.84	-7.69	-0.60	2.49	0.22	-3.45	-8.71
330	-3.43	-4.61	0.61	2.28	-0.33	-5.76	-5.44
360	-1.49	-3.77	-0.45	1.10	-0.32	-9.08	-4.48
Avg.	-5.14	-6.12	-4.08	-1.49	-2.02	-3.51	-6.43
Peak Value		2.486	Minimum Value		#####		

Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-1.90	-4.06	-0.70	0.89	-0.60	-9.20	-4.68
30	-2.64	-5.33	-1.98	0.41	-0.11	-10.27	-4.67
60	-7.21	-8.08	-5.88	-0.42	-0.62	-7.36	-7.95
90	-13.96	-14.06	-21.70	-4.41	-1.61	-5.46	-16.10
120	-8.19	-10.63	-13.37	-8.03	-6.34	-5.11	-10.82
150	-3.52	-2.01	-6.80	-8.98	-4.01	0.41	-4.50
180	-2.27	-3.05	-3.73	-9.31	-2.80	0.18	-3.20
210	-3.21	-6.15	-10.47	-5.80	-8.35	-3.86	-3.73
240	-7.44	-8.36	-7.14	-6.03	-3.37	-0.81	-7.97

270	-13.86	-13.09	-6.08	-0.57	-0.36	-0.78	-16.85
300	-8.67	-7.90	-1.66	2.08	0.13	-3.62	-10.48
330	-3.30	-4.36	0.38	1.89	-0.47	-6.48	-5.22
360	-1.90	-4.06	-0.70	0.89	-0.60	-9.20	-4.68
Avg.	-5.22	-6.29	-4.39	-1.82	-2.10	-3.45	-6.70
Peak Value		2.075	Minimum Value		#####		

RHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.43	-4.63	-1.44	0.05	-1.20	-9.78	-5.37
30	-3.21	-6.51	-2.77	-0.25	-0.81	-9.79	-5.77
60	-7.74	-7.90	-5.89	-1.08	-1.38	-9.11	-7.60
90	-18.30	-14.24	-22.18	-5.14	-2.30	-6.15	-16.45
120	-9.08	-10.30	-14.19	-8.52	-7.14	-6.26	-11.13
150	-4.23	-3.12	-7.86	-10.27	-5.37	-0.85	-5.31
180	-3.07	-3.63	-4.29	-10.10	-3.39	-0.45	-3.91
210	-3.55	-8.14	-15.56	-6.19	-8.99	-6.10	-4.86
240	-8.04	-8.38	-7.34	-5.40	-4.11	-1.72	-7.74
270	-18.55	-16.86	-6.84	-1.13	-1.22	-1.72	-17.31
300	-9.23	-8.60	-1.84	1.77	-0.59	-4.34	-10.67
330	-4.04	-5.20	-0.26	1.13	-1.16	-6.57	-5.95
360	-2.43	-4.63	-1.44	0.05	-1.20	-9.78	-5.37
Avg.	-5.89	-7.09	-5.01	-2.40	-2.84	-4.40	-7.37
Peak Value		1.771	Minimum Value		#####		

LHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-1.06	-3.30	0.15	1.78	0.18	-8.58	-3.91
30	-1.81	-4.56	-1.38	1.28	0.68	-10.15	-3.86
60	-6.38	-7.24	-4.39	0.41	0.41	-6.54	-6.84
90	-12.65	-13.37	-21.29	-3.55	-1.19	-4.75	-15.31
120	-8.69	-7.89	-11.76	-8.18	-5.49	-3.56	-8.55
150	-2.81	-1.50	-7.47	-8.01	-3.94	0.79	-4.12
180	-1.37	-2.22	-2.91	-8.43	-2.83	1.01	-2.37
210	-2.33	-5.01	-8.93	-4.36	-7.53	-2.36	-3.12
240	-6.63	-7.43	-6.83	-5.73	-2.56	-0.30	-6.84
270	-12.67	-11.44	-5.49	-0.05	0.62	-0.24	-16.40
300	-13.71	-7.12	-0.47	2.75	0.83	-2.86	-8.59
330	-2.78	-3.87	1.14	2.88	0.26	-5.68	-4.78
360	-1.06	-3.30	0.15	1.78	0.18	-8.58	-3.91
Avg.	-4.57	-5.46	-3.57	-1.02	-1.39	-2.72	-5.89
Peak Value		2.878	Minimum Value		#####		

AR							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	22.04	22.36	20.78	20.08	22.01	23.21	21.57

30	21.91	19.04	21.97	21.15	21.35	33.68	19.20
60	22.14	28.30	21.28	21.38	19.76	16.64	27.14
90	10.05	25.94	25.88	20.82	23.87	21.93	23.68
120	33.06	17.22	17.13	34.13	20.46	16.25	16.61
150	21.73	20.63	32.87	17.76	21.74	20.56	23.36
180	20.22	21.83	22.02	20.36	29.84	21.51	21.11
210	23.10	14.97	8.77	19.58	21.53	13.49	20.03
240	21.83	25.22	30.73	34.30	21.01	21.76	25.76
270	9.73	10.40	22.18	24.08	19.55	21.42	25.62
300	11.97	21.44	22.08	25.03	21.78	21.36	18.48
330	22.83	22.29	21.89	19.98	21.78	25.87	23.40
360	22.04	22.36	20.78	20.08	22.01	23.21	21.57
Avg.	24.10	22.53	25.50	27.13	22.87	24.74	22.84
Peak Value		34.303	Minimum Value		8.773		

Horizontal + Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	1.36	-1.19	2.23	3.87	2.72	-6.60	-1.74
30	0.57	-2.67	1.03	3.57	3.16	-7.30	-1.71
60	-3.07	-5.05	-1.74	2.62	2.83	-4.60	-3.67
90	-10.18	-8.73	-13.61	-0.69	1.60	-2.05	-11.16
120	-6.94	-5.74	-9.11	-4.91	-1.84	-1.93	-7.60
150	-0.87	0.51	-5.54	-5.81	-2.75	2.89	-2.15
180	0.69	0.81	-0.18	-6.17	0.06	3.93	-0.33
210	0.22	-3.01	-8.01	-2.81	-5.70	-1.00	-0.95
240	-2.89	-4.80	-4.30	-2.21	-0.53	1.70	-3.94
270	-10.39	-9.69	-4.82	0.54	2.31	2.22	-12.13
300	-7.48	-6.27	1.85	5.03	3.23	0.01	-6.43
330	-0.68	-1.84	3.28	5.06	2.69	-3.20	-2.73
360	1.36	-1.19	2.23	3.87	2.72	-6.60	-1.74
Avg.	-2.12	-3.23	-1.35	1.13	0.99	-0.40	-3.66
Peak Value		5.056	Minimum Value		#####		

Horizontal							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-1.50	-4.14	-0.70	0.92	-0.22	-9.59	-4.71
30	-2.29	-5.58	-1.88	0.65	0.21	-10.26	-4.66
60	-5.35	-7.72	-4.83	-0.31	-0.13	-7.46	-6.72
90	-13.04	-11.60	-16.38	-3.11	-1.32	-5.05	-13.25
120	-9.80	-7.61	-12.16	-7.98	-4.84	-4.95	-10.59
150	-4.29	-2.36	-8.31	-8.79	-5.64	-0.58	-5.05
180	-2.28	-2.51	-3.28	-9.13	-2.88	1.00	-3.32
210	-2.77	-5.93	-12.01	-5.83	-8.63	-3.95	-3.92
240	-5.85	-7.73	-7.34	-5.27	-3.42	-1.21	-7.00
270	-13.17	-12.63	-7.83	-2.50	-0.59	-0.78	-14.28
300	-15.08	-9.23	-0.73	2.03	0.22	-3.01	-8.75
330	-3.43	-4.71	0.30	2.04	-0.31	-6.27	-5.63
360	-1.50	-4.14	-0.70	0.92	-0.22	-9.59	-4.71
Avg.	-5.09	-6.16	-4.27	-1.82	-1.96	-3.44	-6.58
Peak Value		2.044	Minimum Value		#####		

Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-1.81	-4.26	-0.86	0.80	-0.35	-9.64	-4.79
30	-2.60	-5.79	-2.08	0.47	0.09	-10.35	-4.78
60	-6.96	-8.44	-4.67	-0.47	-0.23	-7.76	-6.63
90	-13.36	-11.89	-16.87	-4.39	-1.51	-5.08	-15.34
120	-10.11	-10.29	-12.07	-7.87	-4.87	-4.93	-10.63
150	-3.50	-2.63	-8.81	-8.86	-5.88	0.29	-5.27
180	-2.35	-1.91	-3.10	-9.23	-3.02	0.84	-3.35
210	-2.81	-6.11	-10.21	-5.81	-8.80	-4.06	-4.01
240	-5.96	-7.89	-7.27	-5.16	-3.67	-1.41	-6.90

270	-13.65	-12.76	-7.83	-2.45	-0.80	-0.81	-16.23
300	-8.30	-9.33	-1.62	2.01	0.23	-2.99	-10.26
330	-3.97	-4.99	0.24	2.05	-0.33	-6.16	-5.84
360	-1.81	-4.26	-0.86	0.80	-0.35	-9.64	-4.79
Avg.	-5.17	-6.33	-4.44	-1.94	-2.08	-3.38	-6.77
Peak Value		2.047	Minimum Value		#####		

RHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.33	-4.85	-1.59	-0.01	-0.96	-10.20	-5.44
30	-3.11	-6.28	-2.78	-0.24	-0.59	-11.01	-5.41
60	-6.35	-8.24	-5.53	-1.14	-0.91	-8.29	-7.41
90	-13.62	-12.31	-17.39	-5.05	-2.17	-5.84	-13.02
120	-10.77	-10.14	-12.73	-8.84	-5.65	-5.61	-11.17
150	-4.34	-3.15	-9.48	-9.69	-6.55	-0.94	-5.84
180	-3.03	-3.00	-3.53	-9.15	-3.83	0.16	-3.93
210	-3.54	-6.71	-15.23	-6.59	-9.39	-4.60	-4.67
240	-6.64	-8.78	-7.48	-6.05	-4.25	-2.10	-7.73
270	-14.08	-13.33	-8.41	-3.00	-1.55	-1.51	-13.74
300	-8.80	-10.10	-1.79	1.36	-0.89	-3.69	-10.64
330	-4.50	-5.62	-0.36	1.31	-1.05	-6.96	-6.57
360	-2.33	-4.85	-1.59	-0.01	-0.96	-10.20	-5.44
Avg.	-5.72	-6.96	-5.05	-2.64	-2.82	-4.15	-7.33
Peak Value		1.357	Minimum Value		#####		

LHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-1.07	-3.63	-0.10	1.58	0.30	-9.10	-4.16
30	-1.86	-5.16	-1.30	1.24	0.78	-9.70	-4.12
60	-5.83	-7.89	-4.09	0.25	0.44	-7.03	-6.05
90	-12.81	-11.24	-15.96	-2.68	-0.77	-4.40	-15.73
120	-9.27	-7.69	-11.58	-7.17	-4.18	-4.36	-10.11
150	-3.46	-1.93	-7.79	-8.10	-5.09	0.56	-4.56
180	-1.70	-1.53	-2.87	-9.21	-2.22	1.57	-2.81
210	-2.15	-5.42	-8.92	-5.16	-8.13	-3.48	-3.36
240	-5.28	-7.01	-7.14	-4.52	-2.93	-0.64	-6.28
270	-12.81	-12.14	-7.31	-2.01	0.01	-0.18	-17.22
300	-13.29	-8.60	-0.60	2.60	1.11	-2.40	-8.50
330	-3.01	-4.19	0.83	2.67	0.30	-5.57	-5.04
360	-1.07	-3.63	-0.10	1.58	0.30	-9.10	-4.16
Avg.	-4.61	-5.63	-3.76	-1.23	-1.35	-2.78	-6.11
Peak Value		2.672	Minimum Value		#####		

AR							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	22.83	23.12	21.37	20.83	22.82	24.03	22.72

30	22.87	23.84	21.41	21.43	22.06	22.47	22.55
60	30.53	33.96	21.67	21.98	22.18	22.82	22.12
90	26.60	24.18	21.77	17.38	21.85	21.64	16.20
120	21.33	17.07	23.64	20.33	21.45	22.84	24.31
150	25.95	23.06	20.27	20.82	21.56	21.32	22.68
180	22.40	21.48	28.47	49.88	20.71	21.82	23.88
210	21.93	22.59	9.16	21.69	22.84	23.81	22.43
240	22.15	19.86	34.06	21.08	22.38	21.52	21.57
270	22.72	23.28	24.03	24.92	20.96	22.32	14.09
300	11.93	21.28	23.27	22.90	18.81	22.62	18.24
330	21.31	21.68	23.30	22.14	22.20	21.93	21.12
360	22.83	23.12	21.37	20.83	22.82	24.03	22.72
Avg.	24.09	25.26	25.72	38.81	21.42	22.16	21.44
Peak Value			49.879	Minimum Value			9.161

Horizontal + Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	1.08	-1.76	1.82	3.71	2.85	-6.74	-2.22
30	0.34	-3.49	0.61	3.42	3.28	-7.17	-2.13
60	-2.64	-5.70	-2.23	2.50	2.84	-4.20	-4.06
90	-10.06	-9.09	-15.78	-0.25	1.55	-2.04	-10.34
120	-6.80	-6.82	-8.52	-4.79	-1.99	-2.00	-7.43
150	-1.45	0.66	-5.14	-5.74	-3.20	2.01	-2.36
180	0.47	1.38	0.07	-6.13	-0.33	3.56	-0.65
210	0.01	-2.82	-6.79	-2.87	-6.65	-1.26	-1.25
240	-3.07	-4.95	-4.51	-2.16	-0.76	1.63	-4.26
270	-10.53	-9.76	-4.96	0.39	2.24	2.05	-11.03
300	-9.28	-6.49	1.17	4.86	3.15	-0.27	-7.64
330	-0.93	-2.21	2.83	4.85	2.70	-3.49	-3.12
360	1.08	-1.76	1.82	3.71	2.85	-6.74	-2.22
Avg.	-2.36	-3.34	-1.66	1.02	0.93	-0.69	-3.99
Peak Value		4.856	Minimum Value		#####		

Horizontal							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-1.64	-4.59	-1.01	0.84	0.02	-9.61	-5.08
30	-2.44	-6.27	-2.23	0.59	0.43	-10.03	-4.98
60	-5.46	-8.60	-5.19	-0.32	-0.03	-6.90	-7.00
90	-12.80	-11.90	-18.28	-3.08	-1.28	-4.92	-13.13
120	-9.57	-9.80	-11.53	-7.69	-4.94	-4.88	-10.36
150	-4.34	-2.13	-7.79	-8.62	-5.97	-0.79	-5.17
180	-2.40	-1.46	-2.80	-9.05	-3.13	0.73	-3.52
210	-2.88	-5.66	-9.63	-5.80	-9.47	-4.11	-4.07
240	-5.90	-7.78	-7.33	-5.10	-3.54	-1.17	-7.12
270	-13.25	-12.63	-7.80	-2.54	-0.64	-0.81	-13.85
300	-14.68	-9.26	-1.75	1.96	0.25	-3.24	-10.72
330	-3.59	-5.01	-0.06	1.95	-0.18	-6.45	-5.94
360	-1.64	-4.59	-1.01	0.84	0.02	-9.61	-5.08
Avg.	-5.19	-6.16	-4.53	-1.85	-1.93	-3.54	-6.85
Peak Value		1.964	Minimum Value		#####		

Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.24	-4.97	-1.38	0.55	-0.34	-9.90	-5.39
30	-2.92	-6.76	-2.57	0.23	0.10	-10.35	-5.30
60	-5.86	-8.83	-5.30	-0.71	-0.33	-7.53	-7.14
90	-13.37	-12.31	-19.37	-3.44	-1.65	-5.18	-13.58
120	-10.06	-9.86	-11.52	-7.91	-5.07	-5.15	-10.52
150	-4.59	-2.57	-8.54	-8.88	-6.46	-1.22	-5.58
180	-2.69	-1.80	-3.10	-9.23	-3.56	0.36	-3.81
210	-3.12	-6.01	-9.97	-5.96	-9.86	-4.44	-4.46
240	-6.26	-8.15	-7.71	-5.24	-4.02	-1.59	-7.43

270	-13.85	-12.91	-8.14	-2.70	-0.91	-1.12	-14.24
300	-10.76	-9.75	-1.94	1.72	0.04	-3.33	-10.58
330	-4.32	-5.45	-0.30	1.73	-0.44	-6.55	-6.34
360	-2.24	-4.97	-1.38	0.55	-0.34	-9.90	-5.39
Avg.	-5.56	-6.54	-4.82	-2.13	-2.24	-3.87	-7.16
Peak Value		1.735	Minimum Value		#####		

RHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.57	-5.43	-1.97	-0.15	-0.82	-10.33	-5.92
30	-3.34	-7.11	-3.19	-0.36	-0.46	-10.87	-5.81
60	-6.31	-9.42	-6.06	-1.28	-0.91	-7.79	-7.81
90	-13.49	-12.57	-19.69	-4.05	-2.21	-5.83	-13.97
120	-10.53	-10.42	-12.25	-8.67	-5.76	-5.72	-10.94
150	-5.15	-3.02	-9.03	-9.59	-7.01	-1.75	-6.12
180	-3.24	-2.37	-3.54	-9.99	-4.24	-0.23	-4.36
210	-3.71	-6.47	-10.38	-6.72	-10.22	-4.82	-4.95
240	-6.81	-8.86	-8.25	-5.97	-4.41	-2.15	-8.03
270	-14.11	-13.41	-8.41	-3.13	-1.63	-1.71	-14.60
300	-10.66	-10.34	-2.42	1.17	-0.75	-3.98	-11.31
330	-4.78	-5.93	-0.84	1.12	-1.04	-7.29	-6.98
360	-2.57	-5.43	-1.97	-0.15	-0.82	-10.33	-5.92
Avg.	-6.01	-7.04	-5.36	-2.74	-2.84	-4.43	-7.71
Peak Value		1.167	Minimum Value		#####		

LHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-1.38	-4.20	-0.54	1.41	0.42	-9.24	-4.64
30	-2.09	-5.98	-1.73	1.07	0.89	-9.59	-4.55
60	-5.08	-8.11	-4.55	0.14	0.45	-6.69	-6.44
90	-12.69	-11.68	-18.05	-2.59	-0.82	-4.39	-12.81
120	-9.18	-9.31	-10.90	-7.07	-4.36	-4.40	-10.00
150	-3.87	-1.76	-7.42	-8.05	-5.53	-0.37	-4.73
180	-1.94	-1.00	-2.42	-8.43	-2.59	1.21	-3.06
210	-2.38	-5.27	-9.29	-5.18	-9.16	-3.79	-3.66
240	-5.45	-7.22	-6.89	-4.49	-3.22	-0.72	-6.63
270	-13.04	-12.21	-7.56	-2.17	-0.06	-0.33	-13.54
300	-14.93	-8.80	-1.33	2.43	0.88	-2.69	-10.07
330	-3.24	-4.61	0.40	2.46	0.32	-5.83	-5.43
360	-1.38	-4.20	-0.54	1.41	0.42	-9.24	-4.64
Avg.	-4.81	-5.75	-4.08	-1.35	-1.43	-3.08	-6.40
Peak Value		2.465	Minimum Value		#####		

AR							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	23.32	23.01	21.73	20.96	22.90	24.04	22.63

30	22.90	23.74	21.55	21.67	22.18	22.70	22.80
60	22.97	22.44	21.26	21.77	22.11	24.02	22.07
90	26.70	25.88	20.53	21.50	21.91	21.69	23.52
120	22.22	23.89	22.20	20.74	21.87	22.44	25.30
150	22.71	22.79	20.71	21.07	21.45	22.02	21.96
180	22.56	22.07	23.79	20.98	20.49	21.68	22.56
210	22.39	23.25	24.06	21.05	24.30	24.51	22.57
240	22.18	20.52	22.12	21.42	23.30	21.75	21.91
270	24.27	23.19	26.17	25.14	20.91	22.03	24.35
300	12.37	21.05	24.06	22.77	20.55	22.60	22.94
330	21.04	22.40	22.95	22.22	22.13	21.54	20.97
360	23.32	23.01	21.73	20.96	22.90	24.04	22.63
Avg.	22.59	22.71	22.56	21.61	21.80	22.36	22.60
Peak Value		26.696	Minimum Value		12.372		

Horizontal + Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	1.08	-1.97	1.72	3.80	3.21	-6.81	-2.22
30	0.35	-3.88	0.53	3.53	3.59	-6.88	-2.15
60	-2.71	-6.43	-2.37	2.57	3.11	-3.84	-3.99
90	-9.95	-9.21	-16.83	-0.17	1.75	-1.71	-9.82
120	-6.71	-6.28	-7.76	-4.64	-1.84	-1.92	-7.43
150	-1.51	0.96	-4.68	-5.57	-3.56	1.95	-2.54
180	0.41	1.77	0.31	-6.09	-0.52	3.45	-0.81
210	0.00	-2.34	-6.51	-2.83	-7.05	-1.33	-1.49
240	-3.09	-4.84	-4.41	-2.06	-0.81	1.70	-4.57
270	-10.05	-9.49	-4.74	0.47	2.29	1.96	-10.91
300	-8.84	-6.18	1.19	4.92	3.19	-0.40	-7.25
330	-0.92	-2.20	2.71	4.91	2.94	-3.47	-3.03
360	1.08	-1.97	1.72	3.80	3.21	-6.81	-2.22
Avg.	-2.36	-3.19	-1.64	1.10	1.08	-0.70	-4.06
Peak Value		4.917	Minimum Value		#####		

Horizontal							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-1.68	-4.80	-1.13	0.89	0.35	-9.71	-5.11
30	-2.46	-6.68	-2.36	0.63	0.72	-9.78	-5.05
60	-5.51	-9.34	-5.33	-0.29	0.19	-6.60	-6.93
90	-12.69	-12.07	-19.12	-3.03	-1.13	-4.59	-12.65
120	-9.55	-9.30	-10.65	-7.60	-4.80	-4.82	-10.46
150	-4.45	-1.87	-7.36	-8.48	-6.34	-0.87	-5.39
180	-2.49	-1.10	-2.60	-9.05	-3.34	0.58	-3.71
210	-2.93	-5.21	-9.37	-5.75	-9.99	-4.23	-4.34
240	-5.93	-7.77	-7.23	-5.04	-3.71	-1.16	-7.49
270	-12.81	-12.41	-7.66	-2.51	-0.65	-0.89	-13.81
300	-13.96	-8.96	-1.76	1.99	0.32	-3.38	-10.34
330	-3.59	-5.07	-0.20	1.98	0.06	-6.38	-5.87
360	-1.68	-4.80	-1.13	0.89	0.35	-9.71	-5.11
Avg.	-5.22	-6.04	-4.54	-1.82	-1.80	-3.57	-6.95
Peak Value		1.986	Minimum Value		#####		

Vertical							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.20	-5.18	-1.45	0.69	0.05	-9.92	-5.35
30	-2.87	-7.11	-2.60	0.40	0.43	-10.02	-5.28
60	-5.94	-9.54	-5.44	-0.60	0.00	-7.12	-7.07
90	-13.24	-12.38	-20.70	-3.33	-1.40	-4.85	-13.03
120	-9.90	-9.28	-10.88	-7.70	-4.90	-5.05	-10.42
150	-4.59	-2.25	-8.05	-8.68	-6.81	-1.25	-5.71
180	-2.72	-1.39	-2.80	-9.15	-3.72	0.29	-3.93
210	-3.09	-5.51	-9.68	-5.92	-10.14	-4.46	-4.68
240	-6.27	-7.94	-7.62	-5.09	-3.92	-1.47	-7.68

270	-13.33	-12.59	-7.85	-2.57	-0.78	-1.21	-14.03
300	-10.43	-9.43	-1.87	1.82	0.04	-3.43	-10.19
330	-4.29	-5.36	-0.39	1.83	-0.21	-6.59	-6.21
360	-2.20	-5.18	-1.45	0.69	0.05	-9.92	-5.35
Avg.	-5.52	-6.35	-4.77	-2.00	-2.06	-3.85	-7.19
Peak Value		1.828	Minimum Value		#####		

RHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-2.64	-5.70	-2.13	-0.16	-0.59	-10.43	-6.01
30	-3.42	-7.57	-3.43	-0.37	-0.23	-10.72	-5.93
60	-6.52	-10.31	-6.30	-1.28	-0.73	-7.44	-7.89
90	-13.49	-12.91	-20.72	-4.05	-2.12	-5.60	-13.53
120	-10.54	-9.91	-11.60	-8.59	-5.75	-5.70	-11.10
150	-5.30	-2.81	-8.62	-9.49	-7.45	-1.90	-6.45
180	-3.37	-2.09	-3.40	-10.07	-4.52	-0.44	-4.61
210	-3.83	-6.15	-10.19	-6.76	-10.62	-5.03	-5.29
240	-6.90	-8.87	-8.22	-5.95	-4.49	-2.19	-8.41
270	-13.70	-13.26	-8.27	-3.12	-1.75	-1.83	-14.57
300	-10.28	-10.06	-2.55	1.10	-0.78	-4.25	-11.07
330	-4.89	-6.06	-1.09	1.08	-0.87	-7.36	-6.93
360	-2.64	-5.70	-2.13	-0.16	-0.59	-10.43	-6.01
Avg.	-6.10	-6.99	-5.45	-2.76	-2.79	-4.53	-7.88
Peak Value		1.102	Minimum Value		#####		

LHCP							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	-1.32	-4.37	-0.58	1.57	0.87	-9.28	-4.56
30	-2.01	-6.30	-1.70	1.25	1.26	-9.20	-4.51
60	-5.05	-8.72	-4.63	0.26	0.79	-6.33	-6.25
90	-12.48	-11.63	-19.10	-2.45	-0.54	-3.99	-12.23
120	-9.03	-8.75	-10.07	-6.88	-4.11	-4.29	-9.86
150	-3.85	-1.41	-6.92	-7.83	-5.83	-0.35	-4.80
180	-1.95	-0.53	-2.09	-8.30	-2.73	1.17	-3.15
210	-2.32	-4.68	-8.95	-5.08	-9.57	-3.75	-3.84
240	-5.41	-7.03	-6.75	-4.34	-3.23	-0.58	-6.89
270	-12.50	-11.86	-7.29	-2.02	0.12	-0.38	-13.35
300	-14.32	-8.46	-1.19	2.58	0.97	-2.70	-9.58
330	-3.14	-4.50	0.37	2.60	0.60	-5.75	-5.29
360	-1.32	-4.37	-0.58	1.57	0.87	-9.28	-4.56
Avg.	-4.74	-5.52	-3.98	-1.20	-1.21	-3.02	-6.39
Peak Value		2.600	Minimum Value		#####		

AR							
ϕ [deg]	Θ [deg]						
	0	30	60	90	120	150	180
0	22.41	22.36	21.00	20.06	21.56	23.54	21.64

30	21.86	22.78	20.04	20.60	21.35	21.20	21.76
60	21.46	20.76	20.33	21.08	21.14	23.87	20.52
90	24.70	22.71	20.62	20.76	20.89	20.70	22.52
120	21.25	23.57	21.14	20.15	20.53	21.81	22.93
150	21.60	21.89	20.18	20.43	20.63	20.99	20.50
180	21.82	20.93	22.41	19.89	19.78	20.71	21.57
210	21.27	21.50	22.95	20.33	24.32	22.66	21.56
240	21.35	19.57	21.48	20.69	22.86	20.70	21.20
270	23.25	21.88	24.91	23.99	19.41	21.56	23.10
300	12.82	20.71	22.16	21.40	19.95	21.00	21.38
330	19.93	20.94	21.55	21.16	21.43	20.72	20.54
360	22.41	22.36	21.00	20.06	21.56	23.54	21.64
Avg.	21.39	21.42	21.44	20.68	21.02	21.42	21.34
Peak Value		24.905	Minimum Value		12.816		