



Antenna Composite Gain Test Report

FCC ID	VW3FAST399V2
Equipment	Wireless Home Router
Brand Name	SAGEMCOM
Model Name	FAST 399
Applicant	SAGEMCOM BROADBAND SAS 250 Route de l'Empereur - 92848 RUEIL MALMAISON CEDEX- FRANCE
Manufacturer	SAGEMCOM BROADBAND SAS 250 Route de l'Empereur - 92848 RUEIL MALMAISON CEDEX- FRANCE
Sample Received	Nov. 07, 2022
Start Test Date	Nov. 23, 2022
Final Test Date	Nov. 23, 2022

Approved by: Sam Chen

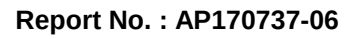
Sporton International Inc. Hsinchu Laboratory

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1. Operation Mode and Antenna Information

Antenna Position	RF Port			Brand Name	Model Name	Ant. Type	Connector	Modes of Operation
	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz					
2G5G Ant1	3	3	-	Galtronics	02102140-07501-1 DB1	PCB	I-PEX	2.4GHz, 5GHz UNII 1~3
2G5G Ant2	2	2	-	Galtronics	02102140-07501-2 DB2	PCB	I-PEX	2.4GHz, 5GHz UNII 1~3
2G5G Ant3	1	1	-	Galtronics	02102140-07501-3 DB3	PCB	I-PEX	2.4GHz, 5GHz UNII 1~3
5G Ant4	-	4	-	Galtronics	02102142-07501 5G	PCB	I-PEX	5GHz UNII 1~3
6G Ant1	-	-	1	Galtronics	02102475-07501B1 6G1 (HPOLOMNI)	PCB	I-PEX	6GHz UNII 5~8
6G Ant2	-	-	2	Galtronics	02102475-07501B2 6G2 (HPOLOMNI)	PCB	I-PEX	6GHz UNII 5~8
6G Ant3	-	-	3	Galtronics	02102475-07501A1 6G3	PCB	I-PEX	6GHz UNII 5~8
6G Ant4	-	-	4	Galtronics	02102475-07501A2 6G4	PCB	I-PEX	6GHz UNII 5~8

Note:

2.4GHz Operation Mode (3TX/3RX)

2G5G Ant1~3 can be used as transmitting/receiving antenna.

2G5G Ant1~3 could transmit/receive simultaneously.

5GHz Operation Mode (4TX/4RX)

2G5G Ant1~5G Ant4 can be used as transmitting/receiving antenna.

2G5G Ant1~5G Ant4 could transmit/receive simultaneously.

6GHz Operation Mode (4TX/4RX)

6G Ant1~4 can be used as transmitting/receiving antenna.

6G Ant1~4 could transmit/receive simultaneously.

2. Test Frequency

The listed frequency of each bands are selected to represent each frequency bands

Band [MHz]	Test Frequency [MHz]
2400-2483.5	2450
5150-5250	5200
5250-5350	5300
5470-5725	5600
5725-5850	5785



3. Testing Location

Testing Location		
Sporton International Inc. Hsinhua Laboratory		
☒	HWA YA	ADD : No.13-1 & 14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan R.O.C.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
Radiated	05CH03-HY	Rex Liao	23.5-24.5 / 50-55	Nov. 23, 2022

Note:

Testing Site Information

Brand Name: TDK

Dimension: 11m*6m*6m

Characteristic: Fully Anechoic Chamber

4. Test Facility and Configuration

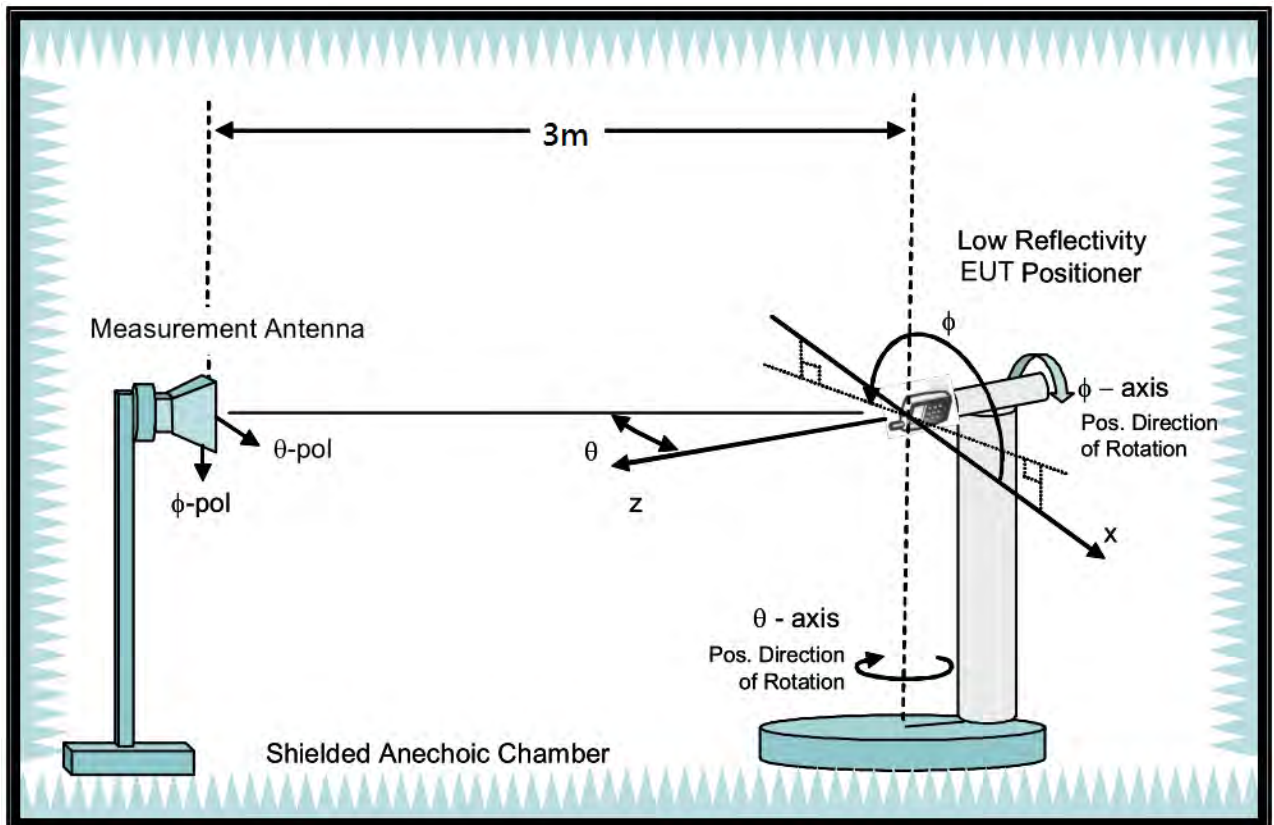
Test configuration: Reference to CITA OTA distributed-axes system configuration.

Chamber: Fully Anechoic Chamber.

Measurement antenna: Dual Polarization Horn antenna

Turntable: Multi-axis positioner (Theta and Phi angle).

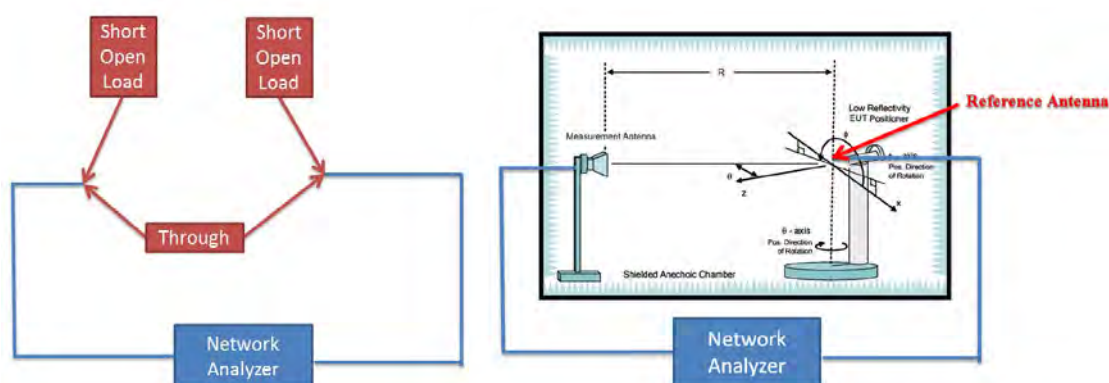
#Reference to CTIA "ctia-test-plan-for-wireless-device-over-the-air-performance-ver-3-7-1"



5. Reference Calibration

Connected cables to VNA calibration kit and use network analyzer internal function to do calibration. Do short, open and load to each side. Then connect through to both side and calibrate G values. The cable loss is calibrated and set inside the network analyzer.

Measurement Antenna is connected to port1 of Network analyzer and reference antenna connected to port 2 of Network Analyzer. Record G values and used with reference antenna gain to calculate gain factor.



Frequency (MHz)	2400	2450	2500	5150	5200	5300	5600	5750	5800	5900	6000	6500	7000	7200
G(theta) reading (dB)	-33.55	-33.27	-32.92	-32.91	-32.73	-32.02	-32.67	-32.82	-32.98	-33.18	-32.8	-33.92	-34.62	-35.57
G(phi) reading (dB)	-33.15	-32.7	-32.41	-32.61	-32.43	-31.72	-32.37	-32.51	-32.52	-32.66	-32.5	-33.62	-34.32	-35.48
Reference gain (dBi)	10.1	10.4	10.7	12.5	12.7	13.5	13.4	13.3	13.3	13.2	13.4	12.5	12.1	11.4
Factor(theta) (dB)	43.65	43.67	43.62	45.41	45.43	45.52	46.07	46.12	46.28	46.38	46.2	46.42	46.72	46.97
Factor(phi) (dB)	43.25	43.1	43.11	45.11	45.13	45.22	45.77	45.81	45.82	45.86	45.9	46.12	46.42	46.88

Note:

$$G \text{ reading (dB)} = 20 \cdot \log(V_2/V_1) = 10 \cdot \log(P_2/P_1)$$

V2 is the voltage of VNA port2 is measured, V1 is the voltage of VNA port1 is the reference source.

P2 is the power of VNA port2 is measured, P1 is the power of VNA port1 is the reference source.

$$\text{Factor} = \text{gain factor} + \text{power gain conversion} = (\text{Reference antenna gain}) - (G \text{ reading})$$

6. Test Method

EUT set on multi-axis positioner and adjust EUT's physical center to measurement reference center. Measurement antenna set at phi polarization and 1.5 meter height. Port 1 of Network analyzer connect to antenna 1 of EUT. Record G value every 7.5 degree from 0 to 352.5 degree on Phi angle and 0 to 180 on theta angle of multi-axis positioner. Then set measurement antenna to theta polarization and repeat process. Repeat process to each antenna of EUT.

DG steps:

1. Each Phi and Theta polarization antenna gain are measured for all test angles.
2. Composite Phi and Theta antenna gain are computed, using formula in KDB662911 D01 d) (i) and e) (ii), for all angles.
3. Composite antenna gain are examined for all angles to determine max gain and Phi/Theta position. Max gain and phi/theta position are listed in section 7 tables.

Note: Antenna gain = G reading + factor, The factor of chapter five includes reference antenna gain factor and power gain conversion.

7. Measured Values and Calculation of Maximum Gain Positions

DG_1SS max value position

Frequency (Hz)	2.45G	5.2G	5.3G	5.6G	5.785G
Ant. 1 (dBi)	2	2.76	-10.68	1.45	2.07
Ant. 2 (dBi)	-1.25	1.3	-6.3	0.06	-0.12
Ant. 3 (dBi)	-7.13	-3.33	1.25	-9.2	-6.81
Ant. 4 (dBi)	-	-8.15	1.93	-3.92	-4.22
DG [1SS] (dBi)	3.41	5.13	4.03	4.01	4.42
Polarization	Theta	Theta	Phi	Theta	Theta
$\Theta(^{\circ})$	97.5	82.5	67.5	97.5	97.5
$\Phi(^{\circ})$	210	22.5	187.5	187.5	187.5

Note: The DG 1SS max value position is the maximum value of section 11 table DG 1SS Result.

DG_1SS max value position calculation

Frequency (Hz)	2.45G	5.2G	5.3G	5.6G	5.785G
Ant. 1 [$10^{(G/20)}$]	$10^{(2/20)}$	$10^{(2.76/20)}$	$10^{(-10.68/20)}$	$10^{(1.45/20)}$	$10^{(2.07/20)}$
Ant. 2 [$10^{(G/20)}$]	$10^{(-1.25/20)}$	$10^{(1.3/20)}$	$10^{(-6.3/20)}$	$10^{(0.06/20)}$	$10^{(-0.12/20)}$
Ant. 3 [$10^{(G/20)}$]	$10^{(-7.13/20)}$	$10^{(-3.33/20)}$	$10^{(1.25/20)}$	$10^{(-9.2/20)}$	$10^{(-6.81/20)}$
Ant. 4 [$10^{(G/20)}$]	-	$10^{(-8.15/20)}$	$10^{(1.93/20)}$	$10^{(-3.92/20)}$	$10^{(-4.22/20)}$
Ant. 1 [$10^{(G/20)}$] value	1.259	1.374	0.292	1.182	1.269
Ant. 2 [$10^{(G/20)}$] value	0.866	1.161	0.484	1.007	0.986
Ant. 3 [$10^{(G/20)}$] value	0.44	0.682	1.155	0.347	0.457
Ant. 4 [$10^{(G/20)}$] value	-	0.391	1.249	0.637	0.615
Sum All Antenna [Amax]	2.565	3.608	3.18	3.172	3.327
DG [$10 \cdot \log(A_{max}^2/N_{ant})$]	3.41	5.13	4.03	4.01	4.42

Note:

Directional Gain (1SS) is the max value of every look angle. Each position value is calculated by KDB662911 D01 d) (i).

Directional gain (1SS) = $10 \cdot \log(10^{(G_{ant1}/20)} + 10^{(G_{ant2}/20)} + 10^{(G_{ant3}/20)} + 10^{(G_{ant4}/20)} + \dots)^{2/N_{ant}}$

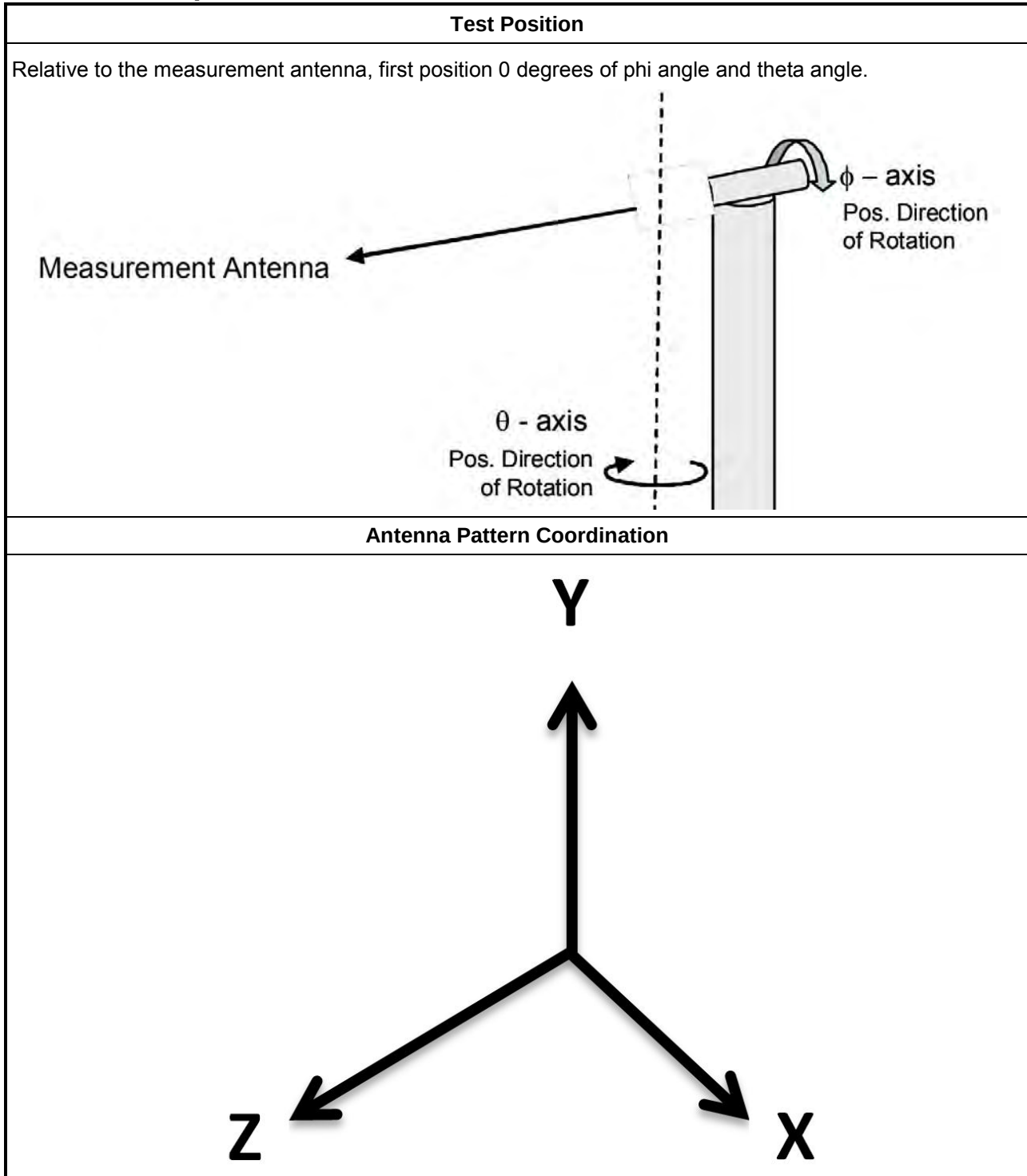
8. Summary of Test Result

Freq(Hz)	2.45G	5.2G	5.3G	5.6G	5.785G
Ant. 1 Max Gain (dBi)	3.12	3.32	3.31	2.65	3.66
Ant. 2 Max Gain (dBi)	1.24	2.27	1.97	2.31	2.46
Ant. 3 Max Gain (dBi)	3.18	3.33	2.68	2.36	2.01
Ant. 4 Max Gain (dBi)	-	4.9	3.67	3.24	3.22
Ant. 1 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Phi/142.5/150	Theta/105/22.5	Theta/105/22.5	Theta/90/15	Theta/90/30
Ant. 2 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/90/112.5	Theta/105/52.5	Theta/112.5/67.5	Theta/67.5/75	Theta/82.5/60
Ant. 3 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Phi/30/172.5	Phi/30/7.5	Phi/30/0	Phi/30/172.5	Phi/52.5/315
Ant. 4 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	-	Phi/165/195	Phi/105/202.5	Phi/172.5/180	Phi/60/180
Max Gain (dBi)	3.18	4.9	3.67	3.24	3.66
DG [1SS] (dBi)	3.41	5.13	4.03	4.01	4.42
DG [2SS] (dBi)	3.18	4.9	3.67	3.24	3.66
DG [4SS] (dBi)	3.18	4.9	3.67	3.24	3.66

Note:

1. Antenna max gain is the max value of each individual antenna through all measurement angles.
2. The max gain is the max value of all antennas.
3. Directional Gain (2SS) = Directional Gain (1SS) – 3dB. If directional gain is less than max gain, use max gain as directional gain. Refer to KDB662911D01 (F) (2) (e) (ii)
4. Directional Gain (3SS) = Directional Gain (1SS) – 4.77dB. If directional gain is less than max gain, use max gain as directional gain. Refer to KDB662911D01 (F) (2) (e) (ii)
5. Directional Gain (4SS) = Directional Gain (1SS) – 6dB. If directional gain is less than max gain, use max gain as directional gain. Refer to KDB662911D01 (F) (2) (e) (ii)

9. Test Setup



Note:

Photos of Test Position: Please refer to the test photos in the appendix.

**10. Test Equipment and Calibration Data**

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1543	1GHz~18GHz	May 31, 2022	May. 30, 2023
Dual Polarization Horn Antenna	Sporton	S0209DP	S0209DP-001	2GHz~9GHz	N.C.R.	N.C.R.
ENA Series Network Analyzer	AGILENT	E5071C	MY46419201	100kHz~8.5GHz	Feb. 21, 2022	Feb. 20, 2023
VNA Calibration Kit	TS RF	TS85033E-F	-	DC~9GHz	N.C.R.	N.C.R.
Multi-axis positioner	Sporton	MAPS01	MAPS01-001	Theta / Phi axis	N.C.R.	N.C.R.
Test Software	SPORTON	SENSE-RDG	V1.0.8	-	N.C.R.	N.C.R.

Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.



11. Test Results

Please refer to the appendix.

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Freq(Hz)	2.45G
Ant. 1 Max Gain (dBi)	3.12
Ant. 2 Max Gain (dBi)	1.24
Ant. 3 Max Gain (dBi)	3.18
Ant. 1 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Phi/142.5/150
Ant. 2 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/90/112.5
Ant. 3 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Phi/30/172.5
Max Gain (dBi)	3.18
DG [1SS] (dBi)	3.41
DG [2SS] (dBi)	3.18
DG [3SS] (dBi)	3.18

Freq(Hz)	5.2G	5.3G	5.6G	5.785G
Ant. 1 Max Gain (dBi)	3.32	3.31	2.65	3.66
Ant. 2 Max Gain (dBi)	2.27	1.97	2.31	2.46
Ant. 3 Max Gain (dBi)	3.33	2.68	2.36	2.01
Ant. 4 Max Gain (dBi)	4.9	3.67	3.24	3.22
Ant. 1 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/105/22.5	Theta/105/22.5	Theta/90/15	Theta/90/30
Ant. 2 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/105/52.5	Theta/112.5/67.5	Theta/67.5/75	Theta/82.5/60
Ant. 3 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Phi/30/7.5	Phi/30/0	Phi/30/172.5	Phi/52.5/315
Ant. 4 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Phi/165/195	Phi/105/202.5	Phi/172.5/180	Phi/60/180
Max Gain (dBi)	4.9	3.67	3.24	3.66
DG [1SS] (dBi)	5.13	4.03	4.01	4.42
DG [2SS] (dBi)	4.9	3.67	3.24	3.66
DG [4SS] (dBi)	4.9	3.67	3.24	3.66



DG 1SS Result

Freq(Hz)	2.45GPol.	PhiH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DG(dB)	Phi(0°)/Phi(7.5°)	Phi(15°)/Phi(22.5°)	Phi(30°)/Phi(37.5°)	Phi(45°)/Phi(52.5°)	Phi(60°)/Phi(67.5°)	Phi(75°)/Phi(82.5°)	Phi(90°)/Phi(97.5°)	Phi(105°)/Phi(112.5°)	Phi(120°)/Phi(127.5°)	Phi(135°)/Phi(142.5°)	Phi(150°)/Phi(157.5°)	Phi(165°)/Phi(172.5°)	Phi(180°)/Phi(187.5°)	Phi(195°)/Phi(202.5°)	Phi(210°)/Phi(217.5°)	Phi(225°)/Phi(232.5°)	Phi(240°)/Phi(247.5°)	Phi(255°)/Phi(262.5°)	Phi(270°)/Phi(277.5°)	Phi(285°)/Phi(292.5°)	Phi(300°)/Phi(307.5°)	Phi(315°)/Phi(322.5°)	Phi(330°)/Phi(337.5°)	Phi(345°)/Phi(352.5°)
Theta(0°)	0.14/-0.37	-0.78/-0.98	-1.1/-1.26	-1.15/-0.98	-0.78/-0.48	-0.17/0.21	0.59/0.87	1.03/1.15	1.28/1.24	1.04/0.68	0.43/0.3	0.12/0.15	0.12/-0.01	-0.17/-0.33	-0.61/-0.98	-1.29/-1.52	-1.81/-2.04	-2.19/-1.25	-1.89/-1.37	-0.82/-0.4	-0.03/-0.38	0.76/1.01	1.03/0.87	0.58/0.22
Theta(7.5°)	-0.16/-0.17	-0.02/0.13	-0.02/0.13	-0.02/0.13	-0.01/0.19	-0.03/-0.23	0.10/0.05	0.15/0.17	0.44/0.52	0.42/0.26	0.18/0.12	0.07/0.04	-0.18/-0.46	-0.81/-1.36	-2/-2.5	-3.12/-3.48	-3.56/-3.39	-2.99/-2.43	-1.76/-0.94	-0.24/0.25	0.63/0.94	1.15/1.19	1.06/0.78	0.48/0.21
Theta(15°)	-0.16/0.11	0.41/0.66	0.96/1.08	1.03/0.81	0.39/-0.24	-0.81/-1.12	-1.18/-1.21	-1.2/-1.12	-0.89/-0.72	-0.64/-0.58	-0.37/-0.17	-0.07/-0.11	-0.17/-0.32	-0.69/-1.34	-2.29/-3.48	-4.62/-5.42	-5.57/-5.1	-4.24/-3.22	-2.15/-1.03	-0.09/0.59	1.08/1.41	1.55/1.49	1.21/0.81	0.44/0.15
Theta(22.5°)	-0.34/-0.15	0.68/1.09	1.29/1.29	1.16/0.81	0.16/-0.72	-1.55/-2.08	-2.35/-2.43	-2.44/-2.34	-2.08/-1.67	-1.26/-0.79	-0.29/0.09	0.3/0.4	-0.26/-0.93	-1.87/-3.05	-4.49/-5.51	-6.44/-6.05	-4.92/-3.66	-2.42/-1.12	-0.02/0.74	1.18/1.37	1.34/1.09	0.62/0.07	-0.32/-0.44	
Theta(30°)	-0.26/0.49	1.08/1.34	1.38/1.29	1.11/0.7	0.03/-0.91	-1.86/-2.56	-2.94/-3.05	-3.07/-2.95	-2.52/-1.89	-1.33/-0.77	-0.11/0.54	1.1/1.53	1.77/1.76	1.49/0.95	0.11/-1.01	-2.51/4.26	-5.46/-6	-5.27/4.1	-2.74/-1.27	-0.12/0.6	0.87/0.85	0.58/0.13	-0.55/-1.26	-1.38/-0.99
Theta(37.5°)	-0.19/0.6	1.13/1.35	1.38/1.3	1.12/0.72	0.02/-0.97	-2.11/-3.15	-3.68/-3.87	-3.85/-3.05	-2.54/-2.02	-1.61/-1.19	-0.64/0.08	0.89/1.56	1.89/1.9	1.59/0.94	-0.05/-1.49	-3.46/-5.25	-7.08/-7.29	-6.19/-4.38	-2.67/-1.26	-0.27/0.24	0.32/0.04	-0.48/-1.07	-1.56/-1.73	-1.54/-1.03
Theta(45°)	-0.67/0.04	0.69/1.12	1.31/1.21	0.97/0.53	-0.21/-1.33	-2.69/-3.91	-3.95/-3.58	-3.22/-3.09	-3.39/-3.71	-4.01/-3.78	-3.47/-2.59	-1.35/0.15	1.05/1.45	1.41/0.93	-0.09/-1.79	-3.87/-5.8	-6.88/-6.8	-5.61/-3.96	-2.36/-1.03	-0.01/0.68	1.04/1.07	0.78/0.22	-0.42/-1.02	-1.17/-1.07
Theta(52.5°)	-0.79/-0.09	0.77/1.37	1.52/1.26	0.91/0.51	-0.22/-1.41	-2.92/-4.01	-3.96/-3.83	-4.05/-4.74	-6.1/-6.51	-5.96/-5.33	-4.25/-3.02	-1.46/0.2	1.25/1.88	2.07/1.78	0.94/-0.38	-1.85/-3.11	-4.03/-4.27	-3.91/-3.11	-2.15/-1.1	-0.15/0.65	1.23/1.46	1.22/0.48	-0.63/-1.55	-1.81/-1.41
Theta(60°)	-0.18/0.73	1.49/1.87	1.82/1.43	1.02/0.65	0.03/-1.11	-2.74/-4.73	-6.17/-8.82	-9.93/-10.52	-10.22/-9.04	-6.21/-4.15	-3.04/-2.42	-1.55/-0.09	1.01/1.74	2.03/1.75	0.96/-0.16	-1.42/-2.83	-4.2/-5.14	-5.86/-5.91	-5.69/-4.9	-3.18/-1.48	-0.39/0.11	0.05/-0.6	-1.73/-2.44	-2.51/-1.27
Theta(67.5°)	-1.1/-0.39	0.07/0.28	0.19/-0.06	-0.27/-0.38	-0.59/-1.26	-2.42/-3.68	-4.75/-5.07	-5.28/-4.77	-3.79/-3.01	-2.18/-1.3	-0.69/-0.19	0.44/1.05	1.45/1.53	1.2/0.49	-0.4/-1.27	-2.46/-4.04	-5.45/-6.55	-7.11/-6.68	-6.42/-5.79	-3.83/-1.51	-0.47/-0.15	-0.06/-0.09	-0.42/-1.11	-1.6/-1.7
Theta(75°)	-3.77/-4.23	-4.18/-3.81	-3.26/-2.93	-2.69/-2.45	-2.34/-2.75	-4.05/-4.69	-4.9/-4.25	-3.51/-2.72	-2.06/-2.22	-2.71/-2.94	-2.56/-1.45	-0.18/0.78	1.11/0.99	0.51/0.08	-0.17/-0.46	-1.45/-3	-4.82/-6.37	-6.92/-6.32	-5.82/-4.41	-3.21/-1.65	-0.84/-0.7	-0.99/-1.21	-1.23/-1.4	-2.07/-3.14
Theta(82.5°)	-3.67/-3.94	-3.91/-3.2	-2.81/-3	-3.6/-4.5	-5.75/-7.73	-7.58/-6.82	-4.91/-3.8	-3.22/-2.91	-3.11/-4.07	-5.22/-5.4	-4.42/-2.74	-1.45/-0.97	-1.23/-1.48	-1.91/-2.12	-2.62/-3.31	-4.85/-6.88	-9.24/-9.16	-8.03/-7.06	-5.53/-4.09	-2.89/-1.67	-0.73/-0.26	-0.56/-1.48	-2.41/-2.84	-2.88/-3.06
Theta(90°)	-4.15/-3.78	-3.78/-3.71	-3.99/-4.75	-5.86/-5.85	-4.87/-3.27	-2.26/-1.85	-1.94/-2.42	-3.21/-3.98	-4.6/-5.28	-5.79/-5.63	-4.63/-3.46	-2.73/-2.03	-1.51/-0.98	-0.79/-0.97	-1.57/-2.91	-4.86/-6.42	-6.79/-6.87	-6.48/-5.99	-4.22/-2.56	-1.06/0.17	1.02/1.51	1.39/0.47	-1.22/-3.13	-4.35/-4.67
Theta(97.5°)	-4.7/-3.41	-2.48/-2.43	-2.8/-3.54	-5.05/-5.34	-3.56/-1.99	-1.31/-1.56	-2.71/-4.83	-7.03/-7.98	-7.25/-6.81	-6.64/-5.98	-5.28/-5.24	-5.56/-4.37	-3/-2.48	-2.62/-2.86	-3.31/-4.02	-4.89/-5.9	-5.86/-5.75	-5.53/-5.6	-5.35/-4.04	-2.32/-1.11	0.03/0.55	0.5/-0.21	-1.69/-3.82	-5.46/-6.39
Theta(105°)	-5.06/-3.24	-1.94/-1.89	-2.55/-3.43	-4.98/-7.37	-7.32/-5.05	-3.77/-3.61	-4.46/-5.97	-7.22/-6.5	-5.56/-5.39	-5.66/-6.12	-6.86/-7.92	-8.97/-7.85	-5.32/4	-3.56/-3.06	-2.56/-2.5	-2.77/-3.11	-3.62/-4.3	-5.11/-5.99	-6.1/-4.82	-2.97/-1.29	-0.05/0.48	0.26/0.69	-2.33/-3.46	-4.57/-5.69
Theta(112.5°)	-4.88/-2.79	-1.59/-1.72	-2.74/-3.46	-3.85/-4.89	-6.43/-7.08	-7.04/-6.85	-6.79/-6.69	-5.83/-4.03	-3.13/-3.08	-3.14/-3.24	-3.36/-4.1	-5.62/-6.76	-5.43/-6.4	-0.03/-0.35	-2.53/-4.25	-2.43/-2.51	-2.93/-3.9	-5.48/-7.46	-8.27/-6.65	-4.62/-2.91	-1.73/-1.04	-1.29/-2.81	-5.25/-5.45	-5.41/-5.8
Theta(120°)	-5.92/-4.77	-3.46/-3.8	-5.74/-7.47	-6.6/-5.23	-4.71/-4.78	-5.69/-7.43	-8.75/-7.92	-5.65/-3.59	-2.86/-2.86	-3.14/-3.02	-2.86/-3.69	-6.05/-8.1	-8.51/-6.32	-4.54/-3.17	-2.57/-2.32	-2.37/-2.56	-2.55/-3.12	-4.32/-5.99	-6.88/-5.53	-4.38/-3.82	-3.29/-2.74	-2.46/-3.38	-5.83/-7.11	-7/-6.55
Theta(127.5°)	-1.72/-5.18	-3.36/-2.75	-3.44/-4.86	-5.97/-4.91	-4.42/-4.62	-4.93/-5.24	-6.17/-5.63	-7.78/-1.89	-1.10/-69	-0.20/-42	-0.44/-0.67	-3.36/-7.22	-1.03/-11.67	-8.29/-6.36	-3.8/-3.05	-2.79/-3.08	-3.82/-5.12	-7.3/-8.85	-8.05/-5.58	-4.1/-3.03	-2.46/-2.1	-2.04/-3.07	-5.71/-8.06	-8.05/-7.33
Theta(135°)	-4.75/-3.74	-2.1/-0.56	0.06/-0.34	-1.3/-2.1	-2.43/-2.5	-2.4/-2.47	-2.67/-3.49	-3.52/-2	-0.76/0.17	1.13/1.75	1.57/0.44	-1.41/-4.62	-6.89/-8.09	-9.65/-11.01	-10.75/-9.33	-6.92/-6.74	-7.92/-9.1	-9.44/-6.59	-3.76/-1.69	-0.27/0.55	0.91/0.87	0.31/-1.18	-4.32/-8.59	-8.42/-6.37
Theta(142.5°)	-1.14/0.06	1.32/-35	2.89/2.71	1.91/0.86	0/-0.72	-1.48/-2.38	-3.46/-4.86	-6.01/-4.57	-2.65/-4.74	0.77/1.49	1.34/0.58	-0.72/-2.28	-3.36/-4.41	-6.23/-8.14	-8.69/-7.38	-6.07/-5.66	-5.49/-4.81	-3.66/-2.3	-1.05/-0.09	0.61/0.96	0.95/0.72	0.15/-1.09	-3.54/-6.87	-5.76/-2.98
Theta(150°)	0.88/1.66	2.34/2.82	2.98/2.62	1.67/0.23	-1.3/-2.83	-4.36/-6.03	-7.85/-9.51	-8.9/-9.16	-3.42/-1.04	0.52/1.38	1.76/1.66	1.11/0.3	-1.53/-1.26	-2.74/-1.86	-1.38/-1.38	-1.53/-1.49	-1.24/-0.95	-0.64/-0.7	-0.71/-0.59	-0.64/-0.58	-0.82/-0.93	-1.45/-2.03	-1.56/-2.03	
Theta(157.5°)	-0.41/0.01	0.34/0.59	0.67/0.39	-0.36/-1.52	-2.83/-4.04	-5.09/-6.32	-8.17/-9.93	-7.47/-5.31	-2.71/-1.05	-0.04/0.76	0.81/0.7	0.18/-0.81	-2.17/-3.29	-3.93/-3.25	-1.95/-1.14	-0.92/-1.2	-1.88/-2.55	-2.99/-3.41	-3.99/-4.82	-5.77/-6.28	-6.05/-4.77	-3.41/-2.61	-2.31/-2.19	-1.82/-1.23
Theta(165°)	-3.49/-2.69	-1.67/-0.72	-0.03/0.33	0.37/0.11	-0.44/-1.27	-2.34/-3.74	-5.6/-6.83	-6.23/-4.41	-2.81/-1.87	-1.36/-1.21	-0.98/-1.15	-1.73/-2.73	-3.91/-5.3	-5.99/-5.6	-4.82/-4.56	-4.82/-5.66	-6.17/-6.2	-8.71/-9.43	-10.59/-11.52	-11.16/-10.17	-9.12/-8.3	-7.76/-7.38	-6.89/-6.09	-5.16/-4.23
Theta(172.5°)	-2.83/-1.65	-0.59/0.16	0.63/0.84	0.81/0.48	-0.12/-1	-2.05/-3.25	-4.47/-5.31	-5.15/-4.43	-3.79/-3.42	-3.31/-3.56	-3.64/-4.27	-5.01/-6.14	-7.87/-9.15	-10.28/-11.18	-11.77/-11.56	-11.73/-11.83	-10.8/-10.11	-9.18/-7.97	-7.22/-6.8	-6.41/-6.22	-6.26/-6.92	-7.07/-7.09	-6.91/-6.2	-5.09/-3.87
Theta(180°)	-1.68/-1.21	-0.85/-0.65	-0.59/-0.68	-0.89/-1.34	-2.03/-2.95	-3.84/-4.45	-4.74/-4.8	-4.68/-4.53	-4.48/-4.65	-4.95/-5.39	-5.97/-6.81	-7.77/-8.38	-9.2/-9.63	-9.11/-8.54	-7.77/-6.89	-5.97/-5.13	-4.48/-3.96	-3.61/-3.49	-3.67/-4.05	-4.52/-4.93	-5.29/-5.71	-6.08/-6.12	-5.66/-4.68	-3.54/-2.57
Freq(Hz)	2.45GPol.	ThetaH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	Phi(0°)/Phi(7.5°)	Phi(15°)/Phi(22.5°)	Phi(30°)/Phi(37.5°)	Phi(45°)/Phi(52.5°)	Phi(60°)/Phi(67.5°)	Phi(75°)/Phi(82.5°)	Phi(90°)/Phi(97.5°)	Phi(105°)/Phi(112.5°)	Phi(120°)/Phi(127.5°)	Phi(135°)/Phi(142.5°)	Phi(150°)/Phi(157.5°)	Phi(165°)/Phi(172.5°)	Phi(180°)/Phi(187.5°)	Phi(195°)/Phi(202.5°)	Phi(210°)/Phi(217.5°)	Phi(225°)/Phi(232.5°)	Phi(240°)/Phi(247.5°)	Phi(255°)/Phi(262.5°)	Phi(270°)/Phi(277.5°)	Phi(285°)/Phi(292.5°)	Phi(300°)/Phi(307.5°)	Phi(315°)/Phi(322.5°)	Phi(330°)/Phi(337.5°)	Phi(345°)/Phi(352.5°)
Theta(0°)	-1.41/-0.92	-0.35/0.11	0.31/0.4	0.38/0.24	-0.01/-0.34	-0.5/-0.77	-0.87/-0.99	-1.19/-1.44	-1.61/-1.94	-2.08/-1.93	-1.78/-1.63	-1.41/-1.11	-0.77/-0.49	-0.3/-0.23	-0.24/-0.27	-0.3/-0.29	-0.27/-0.27	-0.34/-0.49	-0.75/-1.09	-1.12/-1.2	-1.38/-1.75	-1.83/-1.83	-1.79/-1.76	-1.71/-1.56
Theta(7.5°)	-0.77/-0.46	-0.17/0.01	0.04/-0.07	-0.27/-0.52	-0.6/-0.66	-0.55/-0.5	-0.5/-0.56	-0.61/-0.72	-1.02/-1.42	-1.68/-1.86	-2.08/-2.25	-2.32/-2.26	-2.01/-1.62	-1.17/-0.76	-0.42/-0.15	0.04/0.11	0.06/-0.15	-0.44/-0.82	-1.28/-1.8	-2.31/-2.71	-2.82/-2.9	-2.93/-2.5	-2.14/-1.8	-1.5/-1.22
Theta(15°)	-1.52/-1.22	-1.04/-0.94	-1.04/-1.26	-1.59/-1.35	-1.23/-1.06	-0.72/-0.5	-0.34/-0.24	-0.25/-0.39	-0.72/-1.11	-1.6/-2.13	-2.68/-3.22	-3.62/-3.79	-3.63/-3.26	-2.7/-2.13	-1.55/-1.06	-0.67/-0.41	-0.31/-0.34	-0.57/-1.01	-1.67/-2.45	-3.32/-4.26	-5.09/-5.13	-5.19/-4.79	-3.93/-3.19	-2.55/-2.03
Theta(22.5°)	-3.29/-2.87	-2.58/-2.43	-2.36/-2.31	-2.08/-1.68	-1.28/-0.94	-0.79/-0.48	-0.24/-0.13	-0.13/-0.34	-0.73/-1.3	-2.01/-2.24	-3.08/-3.34	-3.57/-3.82	-3.94/-3.8	-3.38/-2.9	-2.43/-2.03	-1.61/-1.26	-0.97/-0.82	-0.92/-1.25	-1.84/-2.73	-3.86/-5.32	-7.1/-8.36	-8.63/-8.31	-7.17/-5.86	-4.74/-3.93
Theta(30°)	-4.73/-3.83	-3.04/-2.39	-1.86/-1.56	-1.39/-1.04	-0.88/-0.9	-0.73/-0.54	-0.33/-0.13	0.08/0.04	-0.07/-0.34	-0.33/-0.37	-0.52/-0.83	-1.21/-1.7	-2.14/-2.23	-2.1/-1.79	-1.71/-1.75	-1.92/-1.88	-1.89/-1.94	-1.99/-2.57	-3.66/-5.34	-7.25/-9.3	-10.81/-11.6	-10.34/-9.8	-7.04/-5.76	
Theta(37.5°)	-4.58/-3.16	-1.92/-0.88	-0.19/0.08	0.02/-0.12	-0.24/-0.41	-0.52/-0.4	-0.03/0.33	0.4/0.45	0.61/0.75	0.83/0.82	0.68/0.35	-0.17/-0.81	-1.31/-1.39	-1.10/-66	-0.45/-0.46	-0.71/-1.12	-1.73/-1.97	-1.88/-1.74	-1.73/-2.06	-6.43/-6.93	-8.38/-9.04	-6.68/-6.63	-7.5/-5.97	
Theta(45°)	-4.86/-3.13	-1.61/-0.37	0.47/0.74	0.56/0.26	0.13/0.04	-0.07/-0.06	-0.01/-0.12	-0.16/-0.22	-0.34/-0.12	0.07/0.21	0.23/0.02	-0.47/-1.16	-1.49/-1.24	-0.78/-0.02	0.53/0.77	0.65/0.15	-0.69/-1.38	-1.61/-1.38	-1.1/-1.1					



Radiated Composite Gain

Appendix A

Θ(22.5°)	1.31/12	0.84/0.24	-0.28/-1.16	-2.18/-3.42	-4.55/-6.47	-8.2/-9.34	-9.14/-7.6	-5.61/-3.61	-2.17/-1.05	-0.43/0.01	0.45/0.56	0.74/0.58	0.18/-0.17	-0.58/-1.09	-1.77/-2.56	-3.07/-3.34	-3.36/-3.46	-3.67/-3.38	-3.86/-3.4	-2.65/-1.6	-0.30/0.65	1.08/1.2	1.47/1.65	1.21/1.28
Θ(30°)	1.89/2	2.05/1.73	1.33/0.77	0.03/-1.29	-2.44/-4.26	-5.33/-5.99	-6.79/-6.87	-7.27/-5.81	-4.15/-2.21	-1.1/-0.39	-0.21/-0.29	-0.25/-0.44	-0.95/-1.34	-1.64/-2.41	-3.04/-3.44	-5.08/-5.15	-4.91/-5.08	-5.36/-5.83	-5.14/-3.41	-2.14/-1.26	-0.46/0.34	1.11/1.2	1.04/0.84	0.79/1.28
Θ(142.5°)	1.24/1.5	1.85/1.76	1.98/2.17	1.60/4.1	-0.93/-3.29	-5.98/-6.88	-6.22/-5.27	-4.2/-3.14	-2.24/-0.68	-0.96/-0.39	-0.52/-0.53	-1.1/-1.09	-1.46/-1.86	-2.63/-3.5	-3.42/-6.4	-4.94/-4.01	-3.39/-4.06	-4.66/-4.13	-1.89/-0.64	-0.1/-0.06	0.44/1.07	1.34/1.38	1.14/0.73	
Θ(45°)	-0.61/-0.63	-0/-0.79	-0.28/0.29	0.27/0.28	-1.67/-4.25	-6.41/-7.61	-7.2/-5.61	-4.03/-2.41	-1.33/-0.68	-0.43/-0.52	-0.33/-0.2	-0.22/0.01	0.6/0.14	-1.12/-1.22	-2.49/-4.2	-6.87/-8.36	-7.05/-9.49	-4.06/-6.05	-6.39/-4.04	-1.97/0.52	0.24/0.23	-0.08/-0.11	-0.19/-0.35	-0.38/-0.86
Θ(52.5°)	-1.43/-1.37	-0.52/-1.05	-0.4/-0.42	-1.1/-1.66	-3.27/-5.24	-6.85/-7.8	-8.01/-5.85	-3.67/-2.48	-1.25/-0.5	-0.52/-1.25	-1.32/-1.21	-0.43/0.79	1.55/1.31	0.56/-0.8	-2.84/-4.79	-5.59/-6.4	-6.88/-5.62	-5.09/-4.62	-7.72/-6.01	-3.23/-1.68	-1.27/-1.07	-0.69/-0.44	-0.3/-0.41	-0.49/-0.84
Θ(60°)	-3.04/-2.69	-2.32/-1.35	-1.11/-1.61	-2.87/-4.24	-5.38/-6.54	-10.04/-10.91	-8.01/-7.74	-5.36/-5.82	-4.14/-2.46	-1.5/-1.45	-1.78/-2.25	-1.33/-0.22	0.36/1.05	0.58/-0.42	-0.74/-1.19	-2.18/-4.63	-6.86/-7.47	-6.84/-6.04	-6.56/-9.26	-6.56/-4.29	-3.79/-3.34	-2.1/0.85	-0.53/-1.36	-2.96/-3.29
Θ(67.5°)	-1.35/-0.4	-1.32/-1.65	-2.42/-2.47	-3.63/-4.58	-5.36/-7.66	-12.45/-10.77	-7.49/-5.98	-6.44/-6.01	-4.65/-3.54	-3.08/-3.16	-2.87/-1.42	0.47/1.91	3.07/4.03	3.31/2.43	0.66/-0.74	-1.78/-3.32	-4.22/-4.67	-5.51/-5.81	-5.25/-3.65	-2.74/-2.81	-1.93/-0.81	-0.82/-1.36	-2.44/-3.26	-2.21/-1.86
Θ(75°)	-1.59/-0.48	-0.39/-0.86	-1.27/-1.97	-2.94/-3.23	-4.6/-7.64	-11.34/-9.66	-7.08/-6.46	-6.08/-4.65	-3.29/-3.09	-4.04/-3.6	-2.31/-0.93	0.14/1.41	1.98/2.43	2.41/87	0.72/0.97	-1.37/-1.41	-2.98/-3.9	-4.79/-5.84	-6.71/-4.65	-2.05/-2.35	-2.39/-1.45	-1.8/-2.96	-3.46/-2.93	-2.37/-1.82
Θ(82.5°)	-0.4/-0.12	-0.49/-0.99	-1.83/-3.46	-3.91/-3.6	-5.01/-7.71	-6.71/-5.48	-6/-6.78	-5.55/-5.28	-4.45/-2.96	-1.3/-0.26	-0.81/-1.51	-1.41/-0.16	0.59/1.32	0.99/0.43	-0.82/-1.48	-2.01/-2	-2.57/-3.11	-3.94/-5.73	-7.58/-5.37	-2.66/-3.86	-2.27/-0.99	-1.32/-3.21	-3.47/-2.93	-1.62/-0.79
Θ(90°)	-2.17/-1.81	-2.38/-2.6	-3.25/-4.3	-5.15/-3.78	-4.16/-7.55	-8.4/-6.7	-6.16/-5.7	-3.66/-3.07	4.2/-4.45	-2.46/-1.03	-0.5/-1.18	-1.91/-2.61	-2.22/-1.5	-1.31/-1.47	-1.26/-0.57	-0.33/0.02	-1.04/-3.13	4.37/-5.82	-9.31/-8.57	4.35/-2.6	-1.27/-2.17	-2.31/-3.43	-3.16/-1.92	-0.59/-0.71
Θ(97.5°)	-1.92/-1	-1.26/-2.39	-5.59/-5.7	-6.03/-7.16	-8.05/-9.41	-8.91/-7.88	-5.32/-3.9	-3.79/-5.19	-3.06/-7.7	0.14/-0.46	-0.52/-0.1	0.72/1.28	0.78/0.4	0.46/-1.62	-2.56/-1.83	-2.51/-3.58	-5.32/-6.96	-8.21/-6.94	-6.12/-5.28	-4.6/-4.7	-4.44/-3.06	-2.44/-2.89	-2.24/-2.58	
Θ(105°)	-3.63/-0.7	-3/-3.98	-4.11/-5.18	-4.46/-3.5	-5.71/-9.63	-6.71/-6.56	-6.93/-6.09	-6.39/-4.42	-3.69/-2.95	-3.43/-4.85	-3.68/-2.43	-1.51/-0.87	-0.35/0.93	1.44/1.47	0.9/-1.12	-2.97/-2.65	-0.23/-2.36	-6.66/-10.85	-9.67/-6.4	-4.07/-4.67	-5.44/-7.03	-6.18/-4.2	-2.16/-2.3	-1.92/-1.7
Θ(112.5°)	-2.96/-4.85	-6.41/-6.13	-5/-5.76	-6.57/-6.91	-7.71/-8.12	-7.99/-6.95	-7.47/-8.77	-10.03/-7.6	-5.47/-4.21	-4.74/-5.44	-4.48/-2.48	-2.73/-2.99	-1.74/-1.03	-1.65/-2.36	-1.7/-2.02	-3.2/-6.42	-8.53/-7.37	-8.31/-8.32	-10.39/-7.94	-5.36/-5.6	-5.89/-4.34	-3.52/-1.86	-2.66/-2.68	-2.32/-2.7
Θ(120°)	-1.42/-2.45	-2.1/-3.29	-4.46/-7.93	-8.48/-7.57	-7.03/-7.44	-8.08/-6.22	-3.44/-3.79	-4.61/-7.66	-4.42/-3.27	-4.41/-6.24	-6.62/-4.54	-5.03/-5.1	-4.82/-2.56	-4.38/-6.92	-5.37/-4.35	-6.53/-7.48	-6.54/-5.65	-3.97/-4.85	-4.27/-4.5	-6.99/-5.29	-4.27/-4.5	-2.12/-2.95	-1.54/-0.06	-1.54/-0.29
Θ(127.5°)	-1.96/-2.06	-2.89/-3.24	-4.34/-6.26	-7.5/-91	-5.34/-5.41	-5.49/-3.1	-1.78/-2.5	-3.81/-4.13	-3.47/-3.94	-6.62/-10.37	-5.64/-2.22	-1.61/-1.57	-1.03/-1.89	-4.58/-6.48	-6.5/-4.43	-3.72/-3.39	-4.91/-2.99	-4.4/-6.06	-7.45/-6.65	-3.66/-2.78	-4.85/-2.91	-2.31/-1.56	-4.17/-1.03	-1.27/-2.75
Θ(135°)	-3.93/-4.06	-3.07/-2.62	-2.47/-3.95	-5.84/-7.8	-8.95/-9.75	-7.2/-5.53	-5.58/-6.58	-6.94/-5.29	-2.05/0.16	0.67/-0.84	-3.59/-2.61	-0.91/-0.45	0.35/0.65	-0.55/-3.06	-2.99/-2.28	-3.94/-3.39	-3.95/-3.31	-2.97/-4.89	-8.7/-5.37	-2.18/0.08	-3.08/-3.76	-4.15/-3.9	-2.56/-3.14	-2.58/-2.97
Θ(142.5°)	-1.58/-2.74	-4.25/-2.74	-5.66/-5.85	-4.57/-5.32	-6.99/-7.06	-6.53/-5.68	-5.42/-5.58	-5.75/-5.36	-3.22/-2.51	-2.99/-4.71	-6.53/-6.78	-5.15/-4.66	-5.03/-5.1	-4.93/-2.91	-2.22/-3.95	-3.76/-3.02	-2.34/-2.97	-5.17/-0.83	-9.38/-6.85	-3.74/-2.32	-4.65/-5.72	-2.87/-2.32	-2.99/-4.58	-5.92/-2.9
Θ(150°)	-4.08/-2.43	-4.42/-5.74	-2.64/-2.54	-2.88/-2.93	-2.37/-1.85	-1.68/-2.18	-3.2/-5.57	-5.65/-6.43	-5.68/-5.12	-5.08/-5.06	-4.77/-3.46	-2.87/-3.5	-4.22/-4.89	-5.36/-5.47	-5.39/-5.25	-4.32/-3.23	-2.81/-2.74	-3.64/-6.15	-7.83/-7.32	-4.63/-2.51	-2.88/-6.26	-7.63/-5.35	-4.68/-5.69	-6.74/-6.32
Θ(157.5°)	-3.72/-2.85	-2.63/-2.47	-2.79/-3.72	-4.28/-4.02	-4.07/-4.34	-4.65/-5.61	-6.43/-7.29	-7.51/-7.2	-5.64/-3.62	-2.24/-1.26	-0.78/-1.01	-1.52/-1.14	-0.68/-0.28	0.17/0.52	0.33/-0.44	-1.15/-1.33	-2.13/-3.74	-5.57/-7.82	-8.75/-7.04	-5.93/-5.72	-5.75/-6.68	-7.08/-5.9	-5.81/-6.84	-6.2/-5.2
Θ(165°)	-2.26/-2.35	-2.63/-2.67	-3/-3.82	-4.69/-5.52	-5.33/-4.89	-4.64/-5.3	-4.98/-5.65	-6.69/-7.84	-8.07/-7.17	-5.78/-4.32	-3.44/-2.42	-1.27/-0.12	0.55/0.8	0.98/1.25	1.21/0.79	0.16/-1	-2.71/-5.22	-8.14/-9.84	-8.18/-6.46	-5.62/-5.03	-5.26/-6.12	-6.63/-6.92	-6.11/-4.48	-3.26/-2.83
Θ(172.5°)	-5.58/-5.53	-5.2/-4.62	-4.54/-4.76	-4.6/-4.88	-5.25/-6.28	-6.95/-7.93	-8.05/-7.54	-7.4/-8.82	-6.3/-5.17	-1.81/-1.19	-0.61/-0.27	-0.08/-0	-0.11/-0.36	-0.78/-1.64	-2.97/-5.14	-7.99/-9.51	-8.04/-6.29	-5.31/-5.1	-7.62/-8.67	-8.19/-6.34	-5.46/-5.72	-5.53/-6.1	-6.51/-6.27	
Θ(180°)	-6.4/-6.34	-5.61/-4.86	-4.51/-4.48	-4.88/-5.71	-6.77/-7.84	-9.46/-10.55	-11.23/-11.36	-10.79/-10.69	-9.58/-8.53	-7.74/-5.88	-5.14/-5.4	-4.45/-4.9	-5.65/-6.91	-8.28/-9.25	-9.61/-9.05	-8.7/-8.17	-8.15/-7.34	-6.9/-6.92	-7.65/-9.03	-10.31/-11.11	-11.87/-10.89	-8.43/-6.9	-6.52/-6.9	-5.87/-6.27
Freq(Hz)	5.3GPol.	ThetaA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-7.31/-5.54	-3.59/-2.34	-1.4/-0.61	-0.4/0.5	0.78/1.06	1.26/1.33	1.37/1.14	0.76/0.38	-0.17/-0.89	-1.68/-2.52	-3.79/-4.84	-5.89/-6.95	-6.32/-4.96	-3.54/-2.28	-1.22/-0.39	0.16/0.46	0.68/0.86	0.98/1.03	0.9/0.58	-0.01/-0.53	-0.94/-1.51	-2.42/-3.64	-5.4/-7.4	-8.83/-9.04
Θ(7.5°)	-5.47/-3.92	-2.58/-1.6	-0.72/-0.19	0.1/0.5	1.01/1.15	1.08/1.01	0.92/0.79	0.46/0.12	-0.72/-1.49	-2.47/-3.74	-5.71/-7.33	-7.86/-4.66	-5.8/-4.4	-3.1/-97	-1.33/-0.52	0.01/0.27	0.45/0.63	0.8/0.92	0.8/0.54	0.61/0.46	0.11/-0.45	-1.17/-2.07	-3.44/-4.92	-6.03/-6.23
Θ(15°)	-2.17/-2.88	-2.02/-1.22	-0.40/-0.18	-0.0/0.2	0.23/0.09	0.13/0.28	0.24/0.12	-0.16/-0.41	-0.87/-1.56	-2.54/-3.74	-5.31/-7.21	-8.26/-7.72	-6.52/-4.84	-3.61/-2.78	-2.1/-57	-1.25/-1.06	-0.78/-0.67	-0.54/-0.32	0.1/0.63	0.02/0.84	0.62/0.32	-0.29/-0.93	-1.86/-2.47	-3.36/-3.28
Θ(22.5°)	-2.89/-3.52	-4.21/-4.14	-3.04/-1.52	-0.79/-0.19	0.05/0	0.1/0.08	-0.14/-0.31	-0.54/-0.69	-1.31/-2.01	-3.2/-4.91	-6.9/-8.62	-8.86/-7.66	-5.72/-4.15	-2.9/-1.88	-1.07/-0.84	-1.06/-1.37	-1.64/-1.82	-2/-2.07	-1.63/-0.72	0.11/0.67	0.58/-0.33	-1.37/-1.56	-1.55/-2.21	-2.72/-2.9
Θ(30°)	-4.65/-6.2	-5.99/-4.65	-3.65/-1.46	0.31/1.4	1.82/1.88	1.84/-1.28	0.56/0.02	-0.47/-0.98	-1.45/-1.94	-2.77/-3.92	-5.62/-6.68	-7.2/-7.22	-5.72/-3.95	-2.68/-1.84	-1.32/-1.32	-1.72/-1.82	-1.21/-1.07	-1.22/-1.18	-0.84/-0.86	-1.05/-1.01	-0.68/-0.4	-0.34/-0.4	-0.51/-1.44	-1.92/-3.17
Θ(37.5°)	-5.74/-9.4	-2.66/-1.79	-1.58/-0.51	0.92/1.56	1.69/1.49	1.38/1.1	0.68/0.29	-0.35/-1.4	-2.1/-1.69	-1.54/-1.94	-2.3/-2.84	-3.62/-3.7	-3.52/-2.53	-1.38/-0.44	-0.05/-0.02	-0.11/-0.34	-1.3/-3.04	-3.26/-2.67	-0.72/0.78	1.39/1.17	0.3/-0.01	0.62/1.01	0.54/-0.9	-2.48/-4.31
Θ(45°)	-4.05/-1.91	-0.89/-0.59	-0.64/0.16	0.97/1.46	1.82/0.5	2.12/5.3	2.742/4.9	1.52/-0.13	-1.73/-1.87	-1.48/-1.56	-1.61/-1.72	-2.02/-2.14	-1.51/-0.78	0.29/1.1	1.51/1.12	-0.88/-1.94	-1.54/-1.78	-1.32/-0.63	0.09/0.27	-0.54/-1.12	0.37/1.4	0.97/-0.67	-3.16/-6.11	
Θ(52.5°)	-1.47/-0.02	0.13/0.07	0.0/0.7	1.61/2.01	2.32/2.6	2.17/1.76	1.95/1.81	1.12/-0.22	-0.44/-0.64	-0.35/-0.47	-1.07/-1.17	-1.68/-2.77	-3.08/-3.02	-1.13/0.01	0.13/0.15	0.4/0.44	0.13/-0.35	-1.09/-1.81	-1.06/0.04	0.72/0.38	-0.45/-1.01	-0.68/0.39	0.57/-0.37	-2.67/-3.96
Θ(60°)	-2.38/-0.75	0.19/1.21	1.16/1.62	2.2/5.2	2.68/2.81	2.49/1.45	0.48/-0	0.06/0.15	1.03/0.82	0.8/0.5	-0.28/-0.14	-0.38/-1.59	-1.58/-2.56	-1.72/-0.64	-0.81/-0.68	-1.2/-1.13	-1.47/-1.59	-1.95/-1.96	-1.46/-1.43	0.75/-0.5	-1.27/-0.92	0.5/0.53	-0.71/-2.69	-4.63/-3.73
Θ(67.5°)	-0.26/-0.18	0.86/1.68	1.88/2.25	2.52/2.62	2.22/2.42	1.97/1.04	-0.67/-1.25	0.44/1.78	2.38/1.54	0.34/-0.88	-1.51/-1.69	-1.41/-2.12	-1.11/-0.59	0.52/1.21	0.16/-0.15	-0.75/-0.53	-0.59/-1.67	-1.81/-1.68	-1.34/0.03	-0.25/-1.22	-1.68/-1.07	-0.12/-0.67	-2.28/-3.18	-2.04/-1.62
Θ(75°)	0.62/1.16	2.09/2.56	2.17/2.63	2.16/1.97	1.71/1.65	1.44/0.87	-0.16/-0.96	-0.11/-1.47	2.25/1.7	1.16/1.32	1.14/0.54	-1.22/-3.45	-3.04/-1.76	-1.04/-0.3	-0.03/0.72	0.77/0.48	0.14/0.99	1.09/0.56	0.49/0.11	0.58/-1.39	-1.73/0.39	0.67/-1.03	-2.34/-2.28	-2.21/-35
Θ(82.5°)	0.96/1.03	2.22/2.65	2.443.44	2.62/2.11	2.09/1.6	1.45/1.74	1.48/0.04	-0.14/1	2.06/1.29	1.75/0.65	-0.39/0.01	-0.79/-0.88	-0.03/-1.1	0.98/1.71	1.51/0.69	0.69/0.58	1.02/0.75	0.68/0.96	0.19/0.66	0.01/-				



Θ (67.5°)	-3.5/-3.17	-3.28/-2.66	-3.41/-4.66	-4.25/-3.77	-5.15/-8.87	-12.19/-9.81	-7.65/-6.95	-5.68/-2.84	-0.5/-0.03	-0.85/-1.23	-0.74/0.15	0.54/1.26	1.8/1.79	0.99/-0.28	-1.15/-1.37	-1.83/-2.77	-4.44/-6.88	-8.79/-7.33	-4.85/-4.94	-4.47/-3.81	-1.97/-1.03	-0.81/-0.75	-0.85/-1.75	-2.56/-3.17
Θ (75°)	-1.86/-2.22	-2.73/-3.04	-4.81/-4.99	-4.97/-4.01	-4.83/-7.77	-12.15/-9.45	-7.65/-9.37	-7.65/-2.95	-0.18/0.47	-0.36/-1.38	-1.52/-0.43	0.25/1.17	1.88/2.72	2.64/2.4	1.05/-1.44	-2.51/-2.35	-1.73/-2.41	-3.62/-5.77	-5.58/-5.55	-5.04/-3.74	-1.62/-1.41	-2.13/-2.49	-3.41/-2.54	-2.04/-2.24
Θ (82.5°)	-3.03/-2.67	-2.63/-2.77	-3.54/-3.11	-3.66/-4.84	-5.77/-7.25	-8.73/-9.76	-9.04/-8.8	-6.49/-1.86	-0.6/-2.21	-4.28/-4.05	-2.28/0.38	2.12/2.68	2.35/2.58	2.72/2.59	1.8/-0.49	-2.21/-1.6	-1.78/-3.14	-4.9/-6.39	-4.8/-4.23	-2.9/-2.23	-1.88/-1.42	-3.06/-3.28	-3.02/-2.34	-3.44/-4.08
Θ (90°)	-2.77/-1.43	-1.09/-0.24	-0.96/-2.07	-3.71/-4.79	-5.62/-6.97	-6.92/-8.25	-9.26/-9.4	-5.4/-0.72	-0.08/-1.17	-3.92/-4.66	-2.86/-1.29	0.12/0.28	0.36/0.37	0.4/0.35	0.39/-1.76	-3.81/-3.41	-2.44/-4.05	-7.17/-6.8	-5.72/-7	-4.75/-3.57	-3.25/-2.58	-1.85/-3.2	-3.29/-4.09	-2.77/-3.56
Θ (97.5°)	-4.93/-3.87	-3.02/-1.34	-0.57/-1.77	-4.9/-5.24	-6.19/-9.77	-11.29/-10.16	-9.95/-6.24	-2.48/-0.94	-1.54/-3	-1.99/-1.15	-0.55/-1.76	-2.12/-1.72	-1.27/-1.81	-2.39/-1.83	-0.91/-1.04	-2.03/-0.95	-2.04/-4.07	-6.09/-7.72	-7.62/-4.28	-3.79/-4.45	-4.03/-3.34	-3.24/-2.67	-4.24/-3.2	-2.87/-5.12
Θ (105°)	-4.54/-3.65	-2.31/-0.58	-0.83/-3.3	-5.83/-5.59	-6.2/-8.05	-7.23/-7.53	-8.42/-7.38	-1.97/0.12	-2.39/-5.43	-2.47/0.74	1.3/-0.68	-2.39/-2.69	-2.17/-0.39	-1.44/-2.53	-1.62/-3.75	-5.3/-5.24	-4.56/-3.55	-3.42/-4.93	-5.32/-5.09	-5.82/-3.77	-4.37/-3.96	-4.04/-3.9	-3.24/-2.09	-3.18/-4.77
Θ (112.5°)	-4.49/-3.39	-3.07/-4.07	-3.94/-4.41	-4.75/-5.69	-6.7/-9.36	-8.63/-7.31	-7.94/-7.41	-6.02/-5.64	-6.46/-6.44	-5.4/-4.59	-2.97/-3.85	-3.01/-2.8	-1.58/-0.23	0.98/-1.02	-3.63/-6.04	-7.23/-6.24	-7.23/-8.89	-8.16/-8.51	-10.29/-10.01	-7.69/-6.27	-4.14/-4.5	-5.39/-2.72	-2.37/-4.17	-4.72/-4.83
Θ (120°)	-2.62/-3.43	-3.65/-3.91	-4.56/-5.76	-5.84/-6.72	-7.01/-8.34	-9.72/-9.09	-7.22/-8.07	-9.64/-10.1	-7.45/-4.99	-4.98/-3.84	-3.37/-2.84	-2.67/-2.76	-2.35/-2.01	0.19/-2.56	-0.36/-1.57	-5.25/-6.9	-4.4/-5.88	-6.07/-6.88	-10.96/-7.88	-5.31/-5.95	-4.4/-2.17	-1.11/-3.44	-3.04/-2.42	-3.02/-2.3
Θ (127.5°)	-2.98/-4.64	-4.35/-4.74	-3.82/-3.89	-4.58/-5.76	-5.27/-6.42	-6.93/-7.39	-6.64/-6.07	-8.19/-8.25	-4.75/-3.38	-2.11/-1.77	-0.45/-1.52	-1.68/-1.52	-1.71/1.01	0.64/-1.32	-2.84/-2.74	-8.67/-7	-4.54/-3.32	-2.67/-4.19	-6.26/-5.75	-2.25/-3.13	-5.73/-7.26	-2.79/-3.27	-0.50/-49	-0.4/-0.41
Θ (135°)	-2.16/-3.52	-3.94/-3.47	-3.17/-4.32	-5.06/-4.61	-5.13/-6.26	-5.99/-5.83	-3.99/-3.88	-5.95/-4.85	-3.81/-3.39	-5.06/-4.32	-3.01/-3.13	-2.83/-2.81	-1.53/-0.6	-1.96/-3.91	-4.55/-4.82	-3.55/-3.68	-3.33/-3.24	-2.51/-4.82	-7.03/-6.28	-4.45/-2.05	-6.65/-4.2	-6.5/-4.28	-5.83/-2.33	-1.31/-1.34
Θ (142.5°)	-5.65/-4.82	-3.8/-3.27	-3.35/-4.78	-6.88/-8.44	-7.84/-9.25	-9.87/-8.05	-6.91/-6.22	-5.25/-4.83	-3.7/-2.54	-2.59/-1.52	0.28/0.58	-1.85/-3.59	-3.4/-2.74	-3.9/-6.34	-5.23/-2.52	-3.78/-3.53	-4.78/-2.82	-2.5/-2.96	-5.63/-6.51	-5.01/-2.91	-6.42/-5.3	-3.66/-3.72	-3.22/-4.23	-3.63/-4.17
Θ (150°)	-3.61/-5.28	-5.86/-5.54	-4.7/-3.68	-3.48/-3.96	-4.96/-6.2	-7.27/-6.92	-5.74/-5.66	-6.08/-5.98	-4.2/-4.14	-5.42/-6.69	-6.11/-5.42	-5.04/-2.27	-1.4/-1.54	-2.65/-4.43	-5.17/-5.64	-7.27/-6.2	-6.22/-7.3	-8.93/-9.76	-8.96/-6.61	-5.44/-7.98	-6.86/-5.41	-4.96/-4.11	-4.38/-3.39	
Θ (157.5°)	-5.71/-6.34	-4.7/-4.43	-4.04/-3.3	-3.12/-4.19	-6.33/-8.14	-10.42/-9.81	-9.03/-8.43	-6.65/-5.13	-3.53/-2.59	-2.27/-1.98	-1.28/-0.51	-0.18/-0.46	-1.12/-0.47	0.24/0.73	0.85/0.09	-1.62/-3.26	-3.49/-3.24	-3.87/-5.43	-7.4/-9.13	-8.83/-6.38	-5.52/-4.77	-3.14/-2.15	-2.31/-3.47	-4.06/-4.4
Θ (165°)	-4.36/-4.99	-4.15/-3.51	-3.46/-3.85	-4.96/-6.9	-8.79/-9.3	-9.43/-9.36	-8.51/-7.88	-7.01/-6.02	-5.02/-4.25	-3.39/-2.43	-1.56/-0.82	-0.12/0.14	0.23/0.54	1.09/1.31	0.97/0.22	-0.25/-0.7	-1.03/-1.84	-3.63/-5.89	-8.33/-9.34	-7.54/-6.76	-7.14/-7.71	-8.02/-8.21	-6.86/-4.47	-3.7/-3.75
Θ (172.5°)	-5.83/-6.37	-6.51/-6.19	-5.86/-5.73	-5.61/-5.74	-6.04/-6.54	-7.57/-8.77	-9.79/-9.4	-8.68/-8.03	-6.78/-5.88	-5.13/-4.61	-4.1/-2.93	-2.16/-1.16	-0.65/-0.55	-0.75/-1.2	-1.2/-1.33	-1.79/-2.49	-3.91/-6.04	-8.4/-10.87	-11.43/-10.88	-8.44/-10.19	-10/-10.17	-9.55/-7.59	-5.93/-5.14	-5.78/-5.96
Θ (180°)	-8.35/-7.68	-6.7/-6.34	-6.51/-6.84	-6.45/-6.49	-6.49/-6.55	-7.11/-7.99	-8.75/-9.82	-10.14/-10.67	-9.66/-8.27	-6.45/-5.31	-4.13/-3.56	-2.86/-2.44	-2.28/-2.35	-2.69/-3.38	-4.34/-5.31	-6.13/-7.59	-8.7/-10.52	-11.11/-12.13	-12.26/-11.91	-12.71/-10.89	-10.22/-9.95	-9.16/-8.9	-9.07/-9.31	-8.81/-8.21
Freq(Hz)	5.785GPol.	Theta-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
DG(90B)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-2.88/-3.92	-4.24/-4.42	-3.84/-3.43	-2.92/-2.87	-2.34/-1.96	-1.8/-1.53	-1.16/-1.01	-0.85/-0.65	-0.65/-0.74	-0.9/-1.12	-1.43/-1.83	-2.28/-3.02	-3.66/-4.38	-4.38/-4.15	-3.71/-3.05	-2.67/-2.49	-2.11/-1.5	-1.08/-0.47	-0.11/-0.01	0.02/0.12	0.21/-0.02	-0.35/-0.23	-0.21/-0.46	-0.97/-1.92
Θ (7.5°)	-4.73/-5.7	-6.42/-5.89	-4.79/-4.17	-3.74/-3.97	-3.13/-2.21	-1.4/-0.68	-0.12/0.01	0.15/0.36	0.47/0.62	0.68/0.54	0.21/-0.11	-0.79/-1.57	-2.36/-3.22	-4.1/-4.27	-3.65/-2.91	-2.54/-2.22	-1.84/-1.3	-0.62/-0.08	0.12/0.05	-0.04/-0.22	-0.43/-0.78	-1.07/-1.44	-1.74/-2.12	-2.47/-3.5
Θ (15°)	-4.07/-4.94	-6.03/-6.25	-4.87/-4.38	-3.32/-3	-2.29/-1.55	-0.81/-0.31	0.15/0.76	0.99/-1.18	1.0/8.2	0.55/-0.01	-0.58/-1.03	-1.56/-2.26	-2.96/-3.71	-5.4/-5.14	-5.43/-5.51	-5.32/-4.26	-3.18/-2.27	-1.23/-0.69	-0.67/-0.3	0.09/0.1	-0.19/-0.8	-1.53/-2.04	-2.18/-2.67	-2.49/-3.11
Θ (22.5°)	-4.95/-4.43	-4.28/-4.38	-3.54/-3.12	-2.87/-3.36	-2.53/-1.17	-0.01/0.84	1.39/1.48	1.39/1.24	0.92/0.24	-0.88/-2.57	-4.78/-6.56	-7.18/-6.88	-6.22/-5.16	-4.84/-4.72	-4.53/-4.32	-3.48/-2.45	-1.72/-1.63	-1.49/-1.65	-2.05/-2.07	-1.27/-0.86	-0.96/-1.19	-2.05/-2.64	-3.05/-4.79	-5.6/-5.61
Θ (30°)	-4.09/-3.84	-3.91/-3.28	-3.37/-3.33	-2.9/-2.63	-1.63/-0.67	-0.07/0.92	1.75/2.03	2/1.59	0.69/-0.12	-1.33/-2.68	-3.43/-5.26	-8.54/-8.22	-5.52/-3.04	-1.99/-1.88	-1.88/-1.8	-0.58/-0.03	-0.06/-0.22	0.02/0.07	-0.69/-2.22	-2.95/-2.34	-1.53/-1.28	-1.84/-2.92	-4.02/-5.25	-5.64/-5.19
Θ (37.5°)	-4.83/-2.86	-2.61/-2.79	-2.85/-3.32	-2.44/-1.66	-0.66/0.35	1.09/1.61	2.3/2.6	2.69/2.33	1.75/0.87	-0.53/-1.73	-2.74/-4.91	-6.33/-5.39	-3.85/-2.85	-2.77/-2.4	-1.47/-0.86	-1.2/-1.4	-1.13/-0.56	-0.8/-1.9	-2.86/-1.83	-1.51/-1.5	-0.5/-0.66	-1.22/-1.95	-3.39/-5.18	-7.16/-7.02
Θ (45°)	-3.02/-1.64	-0.58/-0.36	-0.11/-0.36	-1.11/-1.4	-0.25/0.94	1.59/1.97	2.23/2.09	1.55/0.64	-0.13/-0.21	-0.17/-0.15	-0.83/-3.52	-7.49/-9.07	-5.86/-3.17	-1.4/-0.65	-0.41/-0.11	-1.14/-1.45	-0.59/0.26	0.52/0.57	-0.35/-2.61	-2.21/-0.07	0.03/0.46	-0.12/-0.79	-2.32/-3.89	-4.62/-3.64
Θ (52.5°)	-1.54/-0.71	-0.11/-0.21	-0.05/-0.25	-0.59/-0.25	1.03/1.74	1.86/1.9	2.13/2.42	2.32/2.11	1.77/1.16	0.44/0.19	-0.5/-2.56	-4.77/-6.55	-4.58/-2.88	-0.94/0.79	1.71/1.24	-1.16/-2.45	-1.34/-0.28	0.65/-0.08	-1.41/-2.69	-2.9/-2.04	-0.79/-0.97	-1.47/-2.23	-2.96/-4.56	-4.3/-2.53
Θ (60°)	-0.96/0.42	1.73/1.94	1.13/0.89	0.55/0.97	1.62/1.67	2.02/2.17	2.34/2.68	2.46/1.41	1.32/1.4	1.41/1.27	0.33/-1.21	-2.74/-6.39	-5.69/-2.77	-0.44/0.86	1.77/1.93	0.84/-0.83	-1.72/-0.22	0.67/1.04	0.49/-1.4	-3.64/-0.63	0.09/0.51	0.54/-0.13	-1.03/-2.52	-3.6/-2.39
Θ (67.5°)	0.51/1.41	1.89/1.73	1.47/1.67	1.57/1.15	1.44/1.52	1.79/2.15	2.71/2.53	1.96/1.59	1.71/1.93	0.91/-0.12	-1.68/-2.67	-2.48/-2.94	-2.89/-1.79	-0.95/-0.28	-1.34/-0.64	-0.41/-1.34	-1.67/-1.06	-0.42/0.44	0.14/-0.81	-0.94/-1.75	-0.62/-0.76	-0.72/-0.02	0.83/-1	-2.07/-0.37
Θ (75°)	2/3.27	3.13/3.17	2.28/2.29	2.42/-15	2.66/2.16	2.01/2.83	3.06/2.74	2.39/2.76	2.83/1.94	0.87/0.66	-0.36/-1.27	-1/-0.76	-0.54/-0.14	-0.3/-0.68	-1.95/-1.12	-0.21/0.1	-0.91/-0.35	1.44/1.45	1.11/0.76	-0.86/-0.04	0.66/0.15	-1.01/-0.77	-2.54/-2.81	-2.53/0.4
Θ (82.5°)	1.61/2.71	2.87/2.65	3.28/3.53	3.75/3.29	3.26/3.09	2.9/2.22	0.86/-0.23	0.61/6.2	1.56/0.72	0.99/1.47	0.34/-1.77	-1.39/0.05	1.78/2.76	0.74/-0.64	-1.24/0.58	1.09/0.22	0.56/2.81	3.4/3.35	1.79/1.56	1.79/1.62	0.68/0.11	-0.51/-1.19	-1.47/-2.24	-1.06/1.05
Θ (90°)	1.28/1.57	2.06/2.59	2.91/3.06	2.69/2.6	2.02/2.93	3/2.79	1.39/-1.22	-3.25/-1.25	-0.65/-0.31	-0.18/0.6	0.13/-1.58	-1.07/0.12	2.09/3.47	2.05/0.73	0.72/1.62	1.58/1.15	1.64/2.96	4.15/3.63	2.33/1.87	0.81/1.84	1.91/1.54	0.64/-0.7	-1.96/-4.78	-0.96/2.32
Θ (97.5°)	0.54/0.77	2.67/2.37	2.67/3.3	2.73/2.64	1.48/1.13	0.25/0.13	-0.21/-1.46	-1.21/0.01	-0.21/0.79	0.39/1.47	1.63/1.73	1.4/1.37	2.56/4.42	2.85/1.6	1.17/1.04	0.59/0.69	1.34/2.65	3.99/3.07	1.2/0.49	-1.79/0.05	1.34/0.66	-0.94/-2.77	-4.04/-4.34	-2.24/1.36
Θ (105°)	-0.7/-0.21	0.81/1.66	1.96/1.99	0.74/0.87	0.99/0.86	-0.43/-2.46	-3.54/-3.85	-1.07/0.44	-0.95/-1.51	-1.99/-0.46	-1.12/1.25	1.54/1.34	1.07/3.97	3.21/6.9	0.96/1.51	0.58/-0.98	0.56/0.59	2.13/0.79	0.18/0.71	-0.49/-3.85	1.06/0.48	-4.03/-3.66	-3.27/-2.99	-1.35/0.89
Θ (112.5°)	-1.53/-0.97	1/0.5	0.03/-0.19	-0.1/-1.23	1.66/0.81	-0.63/-1.45	-2.8/-1.52	0.84/0.78	-0.83/-2.09	-3.58/-1.31	-1.73/0.61	0.05/0.45	1.2/3.15	3.37/2.02	1.34/1.37	0.77/0.71	-0.08/0.36	0.51/-0.53	-5.13/-2	-2.03/-3.88	-0.78/-0.29	-5.48/-4.83	-4.67/-3.68	0.2/0.87
Θ (120°)	-1.59/-2.4	-1.59/-1.09	-0.52/-0.23	0.42/0.28	-0.59/-1.58	-1.9/-1.74	-3.02/-2.59	-2.14/-2.22	-2.4/-2.6	-2.32/-2.5	-2.09/-0.05	1.69/1.54	2.49/2.84	4.01/2.07	3.31/2.98	1.44/-0.56	1.39/0.81	-1.58/-0.96	-3.19/-1.85	-1.33/-2.69	-6.64/-1.45	-3.35/-3.68	-3.96/-4.61	-1.24/-1.26
Θ (127.5°)	-2.25/-4.7	-3.62/-3.17	-2.47/-2.13	-1.94/-1.63	-1.29/-0.5	-0.27/-0.27	-0.21/-1.86	-3.35/-3.56	-3.16/-2.52	-1.91/-1.66	-2.79/-0.59													



Appendix A

Freq(Hz)	2.45GPol	PhiAnt.1	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-	+/-			
Gain	φ(0°)φ(7.5°)	φ(15°)φ(22.5°)	φ(30°)φ(37.5°)	φ(45°)φ(52.5°)	φ(60°)φ(67.5°)	φ(75°)φ(82.5°)	φ(90°)φ(97.5°)	φ(105°)φ(112.5°)	φ(120°)φ(127.5°)	φ(135°)φ(142.5°)	φ(150°)φ(157.5°)	φ(165°)φ(172.5°)	φ(180°)φ(187.5°)	φ(195°)φ(202.5°)	φ(210°)φ(217.5°)	φ(225°)φ(232.5°)	φ(240°)φ(247.5°)	φ(255°)φ(262.5°)	φ(270°)φ(277.5°)	φ(285°)φ(292.5°)	φ(300°)φ(307.5°)	φ(315°)φ(322.5°)	φ(330°)φ(337.5°)	φ(345°)φ(352.5°)
Θ(0°)	-10.95±10.64	-10.12±9.35	-7.99±7.13	-6.28±5.4	-4.82±4.38	-4.35±4.46	-4.78±5.41	-6.42±7.55	-8.74±10.34	-12.72±16.38	-18.76±18.44	-17.42±13.48	-10.73±8.1	-7.47±6.39	-5.63±5.03	-4.84±8.3	-5.07±5.54	-4.46±7.68	-8.91±9.7	-10.55±11.76	-13.09±13.96	-13.85±13.37	-13.17±13.48	-14.01±14.1
Θ(7.5°)	-11.25±8.91	-7.14±5.8	-4.82±2.41	-3.67±3.25	-3.16±3.48	-3.91±3.46	-4.87±5.1	-6.8±8.04	-9.29±10.75	-12.82±15.13	-16.89±17.26	-16.41±5.09	-13.57±12.45	-11.34±10.5	-9.84±9.29	-8.92±8.57	-8.33±8.39	-8.82±9.55	-10.15±10.27	-10.5±11.35	-12.32±10.07	-13.35±16.72	-13.85±14.09	-13.65±12.25
Θ(15°)	-8.92±6.76	-4.95±3.6	-2.78±2.29	-1.95±1.85	-2.25±2.85	-3.64±3.33	-5±5.96	-7.27±8.77	-10.31±12.09	-14.34±16.73	-17.73±17.85	-17.87±1.78	-16.46±15.06	-14.68±13.72	-13.35±13.29	-13.06±12.62	-12.35±12.19	-12.35±12.78	-13.21±12.69	-12.22±12.17	-12.14±12.04	-12.06±12.28	-12.58±12.69	-11.88±10.16
Θ(22.5°)	-7.58±5.26	-3.52±2.42	-1.81±1.48	-1.32±1.47	-2.08±3.08	-4.06±4.9	-5.76±6.96	-8.64±10.51	-12.24±13.35	-14.52±15.28	-17.87±16.77	-17.91±8.52	-14.82±17.64	-16.26±15.39	-14.49±13.98	-14.18±14.73	-13.33±15.6	-15.84±16.65	-17.32±15.48	-14.31±12.06	-11.43±11.31	-11.81±12.55	-13.2±13.18	-11.67±9.44
Θ(30°)	-7.17±4.83	-3.16±2.29	-1.81±57	-1.42±1.58	-2.17±1.32	-2.27±5.34	-6.83±4.9	-11.81±14.94	-16.33±15.59	-15.71±16.54	-17.19±14.74	-15.88±13.68	-11.75±10.44	-9.75±9.38	-9.36±7.95	-10.51±11.74	-13.43±15.27	-17.09±14.91	-18.48±1.47	-11.44±9.57	-8.82±8.9	-9.75±10.96	-12.17±12.18	-11.94±9.68
Θ(37.5°)	-7.63±5.5	-4.13±3.29	-2.91±2.55	-2.26±2.26	-2.72±3.66	-4.78±6.25	-8.92±12.83	-18.99±18.54	-18.37±16.27	-15.1±15.35	-16.45±15.95	-13.19±10.55	-9.03±8.39	-8.26±8.78	-9.75±11.08	-12.88±11.51	-17.01±18.89	-17.47±14.44	-11.73±9.18	-7.25±6.16	-5.9±6.38	-7.51±9.98	-10.49±11.6	-11.32±10.03
Θ(45°)	-8.84±7.53	-6.33±5.26	-4.29±3.59	-3.19±3.07	-3.46±4.34	-5.48±6.95	-8.97±11.11	-12.83±14.34	-17.26±18.33	-18.6±18.07	-19.07±17.84	-12.62±8.4	-6.32±5.45	-5.36±5.95	-7.21±9.03	-11.09±12.84	-13.76±13.19	-11.81±10.35	-8.74±7.14	-5.98±5.4	-5.31±5.67	-6.49±7.75	-9.28±10.44	-10.52±9.99
Θ(52.5°)	-9.04±7.54	-5.94±4.52	-3.45±2.95	-2.89±3.07	-3.63±4.65	-5.83±7.02	-8.2±9.41	-10.93±13.14	-17.61±8.47	-17.29±18.19	-17.99±14.71	-13.16±5.85	-6.39±5.25	-4.9±5.17	-6.01±7.43	-9.2±10.77	-11.52±11.39	-10.97±10.57	-9.91±8.9	-8.19±7.69	-7.31±7.12	-7.27±12.12	-9.95±11.96	-12.09±10.56
Θ(60°)	-8.33±6.13	-4.41±3.3	-2.65±2.47	-2.69±3.12	-3.86±5.04	-6.41±7.71	-9.41±12.05	-16.77±18.14	-17.57±18.02	-13.73±12.54	-14.53±18.28	-17.14±10.64	-7.5±5.87	-5.26±5.53	-6.54±8.16	-10.88±15.2	-18.95±18.6	-18.57±17.53	-18.48±16.76	-11.95±9.86	-7.43±6.54	-5.99±6.15	-7.34±9.51	-11.82±11.08
Θ(67.5°)	-10.82±7.85	-6±0.6	-4.44±1.45	-4.03±4.05	-4.26±5.69	-5.29±6.03	-7.08±8.2	-8.79±8.9	-19.8±9.41	-12.92±9														



Θ(22.5°)	-11.21/-11.8	-12/-11.66	-11/-11.57	-12.03/-12.13	-11.8/-14.45	-14.87/-14.9	-12.47/-10.98	-9.52/-9.22	-9.64/-10.49	-11.11/-11.92	-13.51/-17.84	-17.77/-18.61	-18.47/-16.72	-16.18/-16.13	-15.48/-13.83	-11.29/-9.24	-7.74/-7.24	-7.07/-7.17	-7.3/-7	-6.35/-5.97	-5.68/-5.51	-6.17/-7.93	-8.97/-9.83	-11.89/-11.83
Θ(30°)	-11.09/-9.98	-10.36/-10.73	-10.92/-11.42	-11.92/-11.8	-9.64/-8.45	-8.1/-9.17	-12.11/-14.08	-18.88/-17.58	-16.67/-14.54	-14.1/-13.42	-14.32/-16.59	-16.59/-16.62	-17.75/-18.41	-18.62/-19.07	-19.18/-19.06	-14.44/-10.25	-8.16/-7.24	-7.44/-6.9	-5.48/-4.46	-4.08/-4.38	-5.14/-6.06	-7.46/-9.64	-12/-13.56	-15.31/-14.23
Θ(37.5°)	-13.29/-12.82	-11.76/-10.88	-9.79/-8.08	-7.41/-7.16	-6.42/-6.31	-6.06/-6.63	-8.34/-10.23	-12.61/-14.87	-18.86/-17.51	-18.97/-17.67	-19.09/-18.11	-18.9/-18.01	-18.97/-13.17	-11.44/-12.91	-16.24/-17.91	-12.00/-11.97	-10.71/-8.36	-6.85/-5.57	-4.7/-4.09	-4.42/-5.74	-8.13/-10.3	-12.22/-11.63	-10.34/-9.52	-10.64/-13
Θ(45°)	-12.99/-14.57	-14.79/-17.61	-16.75/-12.93	-10.87/-9.09	-8.61/-9	-9.86/-10.35	-10.29/-10.44	-11.88/-12.84	-14.17/-15.35	-16.92/-19	-19.2/-17.31	-17.49/-19.28	-14.39/-12.11	-12.01/-13.89	-19.09/-18.53	-18.52/-14.63	-10.97/-8.52	-7.41/-6.74	-6.53/-6.27	-6.04/-6.6	-9/-11.51	-13.95/-14.03	-12.35/-11.19	-12.43/-14.75
Θ(52.5°)	-17.41/-16.36	-15.71/-15.46	-12.64/-14.1	-12.62/-14.47	-16.3/-15.68	-13.68/-13.87	-17.85/-18.33	-17.84/-17.7	-13.71/-11.1	-11.9/-16.89	-18.89/-19.1	-17.06/-12.18	-9.5/-8.65	-10.6/-15.9	-18.64/-18.84	-14.9/-13	-12.05/-11.09	-11.37/-9.7	-7.8/-7.3	-7.6/-7.8	-8.66/-10.37	-13.06/-15.99	-13.85/-11.6	-12.48/-17.22
Θ(60°)	-18.49/-18.38	-17.14/-12.66	-11.76/-13.81	-17.24/-18.2	-17.89/-18.4	-18.77/-17.75	-18.39/-19.21	-12.49/-11.8	-12.71/-10.6	-12.24/-18.9	-16.17/-13.13	-11.7/-9.37	-12.32/-19.25	-17.52/-12.79	-9.76/-11.39	-14.01/-9.81	-6.97/-6.78	-8.52/-10.56	-11.41/-12.29	-12.38/-14.56	-15.44/-15.64	-16.36/-16.79	-18.42/-18.24	
Θ(67.5°)	-13.62/-15.07	-18.36/-17.8	-19.2/-14.2	-14.96/-18.94	-18.91/-18.38	-18.77/-19.1	-14.21/-10.87	-9.79/-10.35	-11.63/-11.2	-10.54/-12.72	-15.66/-18.77	-18.96/-14.89	-12.59/-10.68	-12.94/-14.16	-16.98/-11.96	-8.08/-8.57	-10.93/-11.49	-8.6/-8.11	-8.26/-8.66	-8.28/-8.71	-8.56/-8.38	-12.43/-15.12	-15.91/-14.65	-11.96/-12
Θ(75°)	-18.78/-17.81	-16.03/-10.91	-10.22/-10.62	-11.88/-12.03	-11.62/-13.92	-18.73/-18.5	-18.2/-18.62	-14.14/-9.39	-8.55/-10.4	-15.34/-17.8	-16.22/-13.74	-17.23/-15.97	-18.73/-17.49	-14.88/-13.13	-13.72/-11.01	-8.61/-8.15	-9.15/-7.44	-7.94/-6.97	-8.12/-8.11	-10.83/-12.65	-14.67/-17.49	-17.97/-15.81	-17.63/-19.15	
Θ(82.5°)	-18.56/-15.37	-12.14/-9.09	-9.01/-13.31	-14.92/-11.84	-10.12/-9.76	-14.4/-18.32	-18.16/-42	-10.16/-8.39	-7.4/-8.64	-9.84/-10.62	-17.35/-17.04	-17.41/-15.14	-18.22/-16.61	-16.69/-15.79	-11.63/-8.64	-7.27/-5.18	-5.05/-7.83	-9.39/-8.52	-9.67/-10.67	-11.16/-11.76	-13.94/-16.19	-18.47/-19.09	-18.94/-17.62	-18.13/-18.44
Θ(90°)	-17.57/-17.76	-14.22/-10.51	-8.48/-9.39	-9.88/-7.43	-7.06/-10.6	-18.62/-18.6	-18.66/-15.49	-7.43/-5.27	-7.76/-13.37	-13.4/-12.06	-12.39/-17.55	-19.14/-19.49	-18.45/-14.54	-15.12/-16.34	-13.06/-9	-6.58/-3.96	-4.76/-6.85	-8.9/-11.4	-13.75/-13.16	-8.92/-9.02	-12.34/-17.28	-17.19/-16.55	-19.1/-18.7	-15.64/-14.38
Θ(97.5°)	-18.3/-14.38	-11.59/-9.92	-12.36/-19.33	-17.03/-11.69	-10.28/-11.07	-14.78/-16.1	-17.87/-17.82	-9.89/-7.5	-8.72/-13.9	-9.57/-7.06	-6.11/-12.44	-15.91/-14.7	-14.43/-9.42	-8.75/-9.09	-9.32/-12.47	-11.07/-7.95	-8.72/-12.2	-18.49/-17.7	-14.75/-12.09	-17.97/-19.14	-15.99/-18.22	-18.13/-18.19	-18.54/-18.05	-17.63/-19.15
Θ(105°)	-17.03/-15.67	-10.39/-12.27	-12.25/-15.55	-12.99/-9.31	-6.91/-12.56	-12.78/-12.18	-13.15/-17.09	-13.01/-11.52	-15.09/-14.43	-17.17/-10.9	-9.42/-12.25	-15.32/-19.47	-18.17/-10.86	-7.7/-9	-7.08/-7.08	-7.61/-7.86	-9.38/-10.46	-14.59/-17.8	-17.63/-19.08	-17.99/-17.73	-17.5/-17.28	-17.73/-15.62	-18.42/-18.06	-15.99/-13.51
Θ(112.5°)	-19.17/-18.96	-18.55/-18.82	-18.2/-19.17	-18.85/-13.5	-10.83/-10.34	-9.58/-11.19	-17.14/-17.56	-15.97/-12.58	-13.47/-14.01	-14.85/-17.14	-10.74/-9.16	-16.21/-18.52	-17.63/-10.3	-10.45/-9	-6.2/-4.95	-6.11/-10.28	-12.08/-13.9	-13.6/-14.72	-14.06/-12.49	-15.35/-15.83	-12.32/-14.1	-15.45/-12.88	-13.2/-16.76	-16.14/-19.3
Θ(120°)	-17.41/-15.29	-16.16/-11.1	-8.32/-14.6	-18.5/-18.12	-19.65/-18.06	-17.62/-18.07	-18/-16.41	-12.44/-15.1	-13.34/-10.79	-10.36/-12.25	-16.96/-14.58	-17.57/-18.75	-8.59/-3.94	-6.2/-14.77	-14.08/-8.7	-7.59/-8.7	-11.16/-12.95	-12.53/-12.42	-11.75/-13.25	-18.92/-16.06	-15.86/-17.98	-17.86/-19	-16.35/-13.87	-19.16/-12.7
Θ(127.5°)	-14.28/-11.65	-11.42/-11.28	-12.03/-13.09	-10.28/-7.7	-8.47/-13.29	-15.56/-12.05	-10.67/-12.68	-17.71/-14.99	-12.46/-9.31	-10.25/-16.72	-18.26/-12.56	-16.71/-17.42	-9.28/-8.32	-12.79/-14.17	-13.12/-5.85	-3.65/-6.33	-7.1/-13.09	-14.32/-11.23	-10.2/-10.29	-15.44/-19.58	-12.89/-11.15	-11.97/-18.01	-16.56/-10.47	-11.15/-13.91
Θ(135°)	-19.01/-17.54	-13.36/-9.1	-11.02/-13.91	-13.85/-13.58	-14.82/-19.28	-9.92/-5.15	-4.86/-7.4	-14.33/-18.15	-9.2/-5.35	-5.87/-7.2	-17.73/-11.18	-12.15/-16.12	-9.66/-5.71	-6.92/-18.31	-8.75/-5.29	-7.11/-6.59	-7.14/-18.28	-8.46/-13.51	-13.55/-10.74	-11.4/-19.42	-13.38/-10.65	-9.18/-15.76	-14/-10.54	-11.42/-18.37
Θ(142.5°)	-15.38/-13.47	-17.69/-19.01	-17.93/-12.62	-11.11/-13.6	-13.54/-13.75	-9.02/-6.68	-7.34/-9.46	-13.68/-15.02	-7.68/-7.02	-7.89/-11.34	-13.33/-10.97	-12.37/-9.39	-6.09/-5.37	-7.34/-6.95	-6.41/-13.8	-16.15/-10.39	-12.38/-11.77	-13.17/-19.08	-18.6/-12.08	-8.53/-10.24	-12.8/-17.94	-13.63/-12.07	-17.39/-15.29	-19.01/-17.61
Θ(150°)	-12.97/-7.26	-4.36/-3.31	-3.02/-3.12	-3.35/-3.72	-4.31/-4.72	-4.8/-5.3	-3.87/-4.78	-6.97/-8.02	-5.57/-5.22	-8.81/-6.69	-12.71/-10.97	-8.97/-7.26	-11.17/-8.72	-8.89/-11.01	-9.4/-11.03	-18.11/-17	-14.15/-16.77	-14.73/-15.46	-13.53/-18.2	-18.03/-16.47	-14.73/-15.92	-14.73/-15.92	-17.93/-18.04	
Θ(157.5°)	-11.37/-6.44	-4.27/-4.1	-4.8/-5.26	-5.6/-6.05	-6.72/-7.41	-8.15/-8.66	-8.66/-9.73	-10.98/-12	-10.49/-8.71	-8.16/-8.67	-10.28/-14.37	-18.95/-18.71	-16.57/-17.79	-11.47/-13.56	-12.66/-14.23	-18.48/-19.07	-17.52/-17.3	-16.39/-18.21	-18.93/-17.9	-17.77/-16.91	-18.11/-18.71	-17.82/-14.2	-13.28/-14.59	-17.57/-18.87
Θ(165°)	-18.71/-15.81	-12.35/-10.08	-8.75/-3.89	-8.01/-7.58	-6.79/-5.75	-6.65/-6.36	-7.84/-10.65	-14.78/-18.55	-16.51/-13.59	-12.79/-12.8	-16.29/-18.69	-17.46/-14.78	-14.8/-17.8	-17.32/-12.7	-10.36/-9.69	-10.22/-11.95	-14.41/-17.47	-18.14/-17.04	-13.48/-11.9	-11.64/-12.93	-15.09/-17.4	-14.71/-12.65	-11.38/-11.68	-13.26/-16.62
Θ(172.5°)	-18.34/-18.09	-17.71/-15.27	-13.26/-13.05	-11.58/-10.5	-9.43/-9.15	-9.6/-12.2	-13.29/-15.5	-19.17/-18.88	-18.61/-16.78	-15.76/-15.5	-17.3/-13.9	-17.49/-18.06	-18.81/-15.57	-13.21/-11.47	-10.47/-9.8	-9.34/-9.73	-9.83/-10.14	-9.77/-9.47	-9.09/-9.81	-11.77/-13.33	-18.26/-18.93	-16.26/-12.91	-10.86/-11.14	-12.91/-15.67
Θ(180°)	-15.89/-15.13	-13.06/-11.44	-10.62/-10.83	-12.03/-13.18	-13.9/-15.18	-17.75/-18.69	-17.95/-19.42	-19.05/-18.8	-17.46/-18.08	-15.94/-13.55	-12.59/-12.09	-12.17/-12.55	-12.99/-13.3	-13.51/-13.64	-13.73/-13.85	-14.13/-14.4	-14.78/-14.21	-14.31/-14.73	-16.2/-17.57	-18.99/-17.72	-17.5/-15.59	-15.19/-15.9	-16.83/-17.82	-18.35/-17.09
Freq(Hz)	5.3GPol.	ThetaAnt. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-11.55/-11.35	-10.52/-10.47	-10.26/-10.69	-11.63/-12.78	-13.98/-15.4	-17.19/-17.67	-17.89/-19.37	-19.19/-16.87	-14.2/-12.24	-10.29/-8.67	-7.41/-6.72	-6.48/-6.29	-6.49/-6.77	-6.91/-7.15	-7.62/-8.26	-8.93/-10.51	-12.3/-14.77	-17.39/-18.43	-18.55/-18.1	-19.16/-19.16	-15.29/-13	-12.01/-11.58	-11.53/-11.52	-11.88/-11.73
Θ(7.5°)	-5.9/-5.34	-5.16/-4.52	-5.96/-5.75	-7.89/-9.12	-9.39/-10.12	-12.35/-14.23	-17.06/-18.81	-19.3/-17.58	-19.44/-17.49	-15.23/-13.05	-12.24/-11.37	-11.05/-10.92	-11.14/-11.71	-11.74/-11.88	-12.04/-12.35	-13.28/-15.63	-18.53/-18.7	-19.11/-17.56	-18.97/-19.03	-14.78/-11.88	-9.55/-8.21	-7.05/-6.51	-6.44/-7.01	-7.01/-6.42
Θ(15°)	-3.84/-3.3	-5.03/-5.86	-6.81/-7.4	-8.6/-9.86	-10.10/-8	-12.38/-13.95	-16.17/-18.89	-18.17/-18.15	-18.31/-18.35	-18.08/-17.9	-17.39/-17.15	-15.26/-13.95	-14.13/-14.11	-14.45/-14.51	-16.91/-18.71	-17.79/-15.55	-18.39/-17.05	-14.46/-11.55	-9.92/-8.34	-7.17/-5.9	-4.75/-3.83	-3.58/-3.73	-3.99/-3.67	
Θ(22.5°)	-3.16/-4.1	-5.66/-7.4	-8.19/-7.88	-7.35/-7.21	-7.42/-8.05	-9.65/-11.16	-12.78/-14.11	-15.17/-16.28	-18.98/-18.42	-18.09/-19.09	-17.2/-16.02	-16.02/-16.85	-16.37/-14.73	-13.28/-11.84	-11.1/-11.56	-13.35/-14.78	-17.03/-17.8	-16.61/-15.01	-13.25/-10.12	-7.94/-5.93	-4.69/-4.23	-3.94/-3.55	-3.3/-3.29	-3.3/-3
Θ(30°)	-5.25/-5.74	-5.54/-4.9	-4.89/-3.44	-3.2/-2.69	-2.84/-3.83	-5/-7.07	-10.42/-15.58	-17.76/-16.18	-13.11/-19	-10.05/-8.97	-8.44/-9.18	-11.61/-6.23	-18.21/-16.93	-17.15/-15.84	-13.89/-12.92	-12.75/-12.49	-10.33/-9.04	-8.68/-10.12	-10.91/-10.87	-8.96/-6.1	-4.22/-3.65	-3.93/-4.2	-4.14/-4.36	-4.65/-5.17
Θ(37.5°)	-8.37/-5.39	-2.67/-1.77	-1.65/-1.69	-1.54/-1.87	-2.89/-5.1	-7.18/-8.96	-10.53/-11.58	-11.95/-12.29	-13.06/-11.54	-9.37/-7.23	-6.01/-6	-7.72/-11.6	-17.8/-19.9	-15.58/-11.73	-10.96/-11.01	-4.04/-8.66	-7.5/-7.33	-7.12/-6.83	-5.73/-5.52	-5.71/-5.75	-5.78/-5.04	-3.77/-3.12	-3.22/-4.51	-7.14/-8.93
Θ(45°)	-6.71/-2.9	-1.07/-0.9	-1.68/-2.45	-3.04/-3.62	-4.62/-5.42	-5.6/-4.73	-4.63/-8.08	-6.28/-7.37	-8.72/-9.34	-10.14/-9.12	-8.15/-7.32	-7.01/-8.01	-9.98/-11.17	-10.91/-10.37	-9.12/-7.49	-8.86/-5.91	-7.74/-8.24	-7.61/-7.89	-7.69/-6.89	-6.36/-7.27	-9.95/-8.88	-3.22/-2.57	-2.02/-3.8	-8.35/-11.16
Θ(52.5°)	-3.67/-1.56	-0.4/-0.81	-1.79/-2.01	-2.98/-5.04	-5.57/-4.81	-6.56/-6.61	-6.17/-6.29	-5.96/-7.1	-10.02/-14	-13.59/-11.38	-10.21/-8.56	-8.17/-10.87	-12.49/-9.37	-5.67/-4.13	-4.92/-6.65	-7.41/-7.58	-8.99/-10.04	-9.63/-8.17	-5.89/-4.86	-4.86/-6.74	-8.67/-7.38	-4.86/-2.71	-1.36/-2.94	-6.03/-5.69
Θ(60°)	-1.89/-1.72	-1.12/-0.5	-1.07/-1.61	-2.05/-2.35	-2.2/-1.75	-2.63/-5.2	-7.02/-9.47	-9.78/-8.67	-7.37/-9.16	-6.88/-9.48	-10.11/-16	-6.7/-7.53	-4.41/-4.5	-4.84/-4.18	-5.36/-7.42	-6.28/-4.69	-5.42/-6.65	-7.98/-7.4	-5.25/-4.29	-3.96/-5.22	-6.99/-4.94	-2.8/-2.52	-2.62/-5	-5.64/-3.24
Θ(67.5°)	-0.25/-0.78	-0.42/-0.04	-0.25/-0.57	-0.99/-1.77	-1.86/-2	-2.75/-4.42	-6.14/-7.2																	



Radiated Composite Gain

Appendix A

Θ(75°)	-19.27/-19.11	-15.35/-12.37	-11.57/-11.22	-11.89/-12.69	-14.38/-13.94	-17.03/-14.32	-11.53/-12.89	-12.23/-9.68	-7.61/-7.58	-7.6/-7.6	-8.66/-10.35	-15.62/-17.95	-18.4/-11.79	-11.67/-10.12	-11.05/-13.61	-14.05/-10.39	-8.76/-8.53	-8.6/-8.31	-9.87/-12.06	-16.73/-12.14	-9.51/-10.91	-14.03/-18.32	-18.59/-19.47	-18.71/-19.12	
Θ(82.5°)	-18.3/-13.14	-10.52/-9.16	-10.26/-10.88	-12.42/-12.89	-9.28/-9.94	-12.95/-17.25	-14.56/-9.25	-8.15/-6.64	-7.49/-12.15	-11.96/-10.01	-9.53/-8.04	-9.16/-8.98	-18.31/-18.85	-17.92/-14.02	-14.73/-17.74	-18.02/-12.26	-12.34/-13.17	-13.43/-12.96	-11.49/-14.59	-14.12/-11.38	-12/-12.44	-18.79/-17.38	-18.79/-17.46	-19.4/-17.83	
Θ(90°)	-16.16/-13.85	-8.59/-9.82	-9.76/-12.09	-14.81/-14.95	-13.1/-11.9	-11.86/-17.16	-12.63/-9.88	-6.5/-6.47	-13.71/-8.02	-14.11/-12.94	-10.71/-9.32	-9.99/-10.45	-14.03/-14.88	-16.37/-16.96	-14.93/-18.34	-14.93/-8.58	-8.58/-10.15	-19.19/-19.16	-18.09/-18.94	-14.97/-12.08	-15.19/-17.83	-18.12/-18.33	-18.91/-18.66	-18.89/-18.78	
Θ(97.5°)	-15.49/-13.54	-10.83/-10.78	-10.1/-13.87	-15.68/-11.85	-12/-14.33	-17.02/-18.33	-17.53/-8.05	5.37/-4.41	-6.37/-12.63	-15.61/-12.14	-9.29/-12.22	-16.8/-19.15	-18.91/-19.34	-16.61/-18.69	-12.67/-11.9	-12.24/-8.63	-13.4/-15.93	-14.91/-14.71	-19.03/-17.81	-14.59/-16.86	-17.92/-14.15	-16.3/-17.95	-18.89/-19.02	-18.08/-18.22	
Θ(105°)	-18.71/-18.8	-13.29/-10.15	-10.06/-15.46	-18.66/-13.69	-13.96/-14.21	-13.46/-13.93	-19.28/-17.88	-7.71/-4.74	-18.71/-13.21	-14.3/-7.59	6.5/-5.92	-11.46/-15.23	-13.69/-12.05	-15.68/-18.34	-18.15/-18.89	-14.78/-16.78	-19.29/-14.62	-8.36/-10.37	-8.76/-12.4	-17.84/-15.71	-19.1/-14.8	-19.24/-17.66	-14.13/-10.12	-13.65/-17.97	
Θ(112.5°)	-16.04/-19.27	-12.08/-18.45	-18.09/-15.84	-12.79/-10.9	-14.1/-17.62	-14.09/-12.99	-13.02/-9.17	-9.06/-12.15	-16.42/-18.29	-10.9/-12.56	-10.65/-14.81	-15.73/-18.05	-18.58/-13.52	-8.65/-13.55	-14.18/-15.96	-11.68/-18.55	-13.94/-14.29	-11.99/-9.5	-18.69/-18.61	-18.97/-18.37	-19.18/-17.2				
Θ(120°)	-15.29/-17.33	-19.02/-12.17	-11.07/-12.27	-11.55/-15.96	-17.32/-18.77	-17.89/-18.65	-12.11/-11.96	-14.48/-18.31	-18.15/-14.77	-13.95/-13.85	-12.68/-14.7	-13.93/-13.46	-12.53/-6.79	-4.2/-6.13	-8.87/-7.89	-8.48/-13.29	-12.1/-17.14	-10.39/-9.46	-15.78/-15.49	-9.9/-18.21	-17.8/-15.72	-18.04/-18.95	-17.31/-19.12	-17.04/-17.43	
Θ(127.5°)	-11.73/-16.75	-16.4/-16.56	-10.45/-9.22	-10.14/-12.65	-9.4/-8.83	-12.61/-17.74	-15.11/-12.34	-14.39/-12.46	-8.08/-10.29	-18.75/-13.32	-9.94/-17.76	-10.1/-8.77	-5.61/-3.37	-4.34/-8.21	-9.29/-9.63	-10.04/-13.74	-16.02/-11.68	-9.82/-6.26	-7.81/-5.62	-5.38/-9.59	-14.69/-17.78	-18.33/-19.2	-11.33/-11.84	-11.22/-9.09	
Θ(135°)	-19/-18.03	-17.51/-11.57	-10.9/-9.83	-10.96/-8.49	-6.6/-7.31	-10.28/-15.21	-10.23/-8.54	-15.31/-10.11	-9.83/-11.54	-13.86/-16.81	-13.19/-10.15	-11.63/-13.09	-7.06/-4.95	-7.56/-11.25	-13.11/-4.71	-10.07/-10.52	-15.33/-14.15	-9.9/-10.08	-9.83/-7.09	-8.99/-18.76	-19.08/-10.64	-14.84/-17.28	-12.8/-10.03	-18.28/-18.21	
Θ(142.5°)	-18.53/-18.36	-18.17/-15.17	-13.09/-12.37	-12.61/-14.04	-13.46/-13.4	-16.24/-11.57	-8.9/-9.68	-10.64/-14.41	-12.78/-8.18	-14.75/-18.16	-9.32/-7.6	-12.28/-13.57	-7.62/-4.69	-7.36/-12.95	-10.57/-7.15	-7.54/-6.39	-10.82/-11.7	-10.81/-9.67	-8.18/-7.74	-10.64/-16.12	-17.97/-11.52	-11.89/-18.91	-16.03/-18.16	-12.86/-15.37	
Θ(150°)	-14.54/-10.05	-9.11/-9.09	-8.44/-7.75	-7.19/-8.76	-12.86/-14.08	-7.36/-8.25	-12.41/-15.5	-8.06/-6.7	-9.87/-15.63	-12.36/-8.92	-7.94/-9.59	-9.36/-5.24	-4.56/-5.53	-6.57/-8.7	-10.52/-13	-18.02/-13.87	-12.08/-13.65	-14.26/-12.72	-12.69/-16.61	-15.55/-17.73	-14.97/-12.5	-11.34/-12.35	-11.54/-18.77		
Θ(157.5°)	-15.69/-17.88	-10.31/-9.11	-7.78/-6.89	-7.29/-9.79	-14.99/-15.83	-12.73/-10.9	-11.63/-15.21	-18.15/-16.05	-11.2/-9.75	-11.29/-13.12	-11.88/-9.56	-9.33/-12.5	-16.88/-13.34	-9.26/-7.44	-8.03/-11.3	-18.81/-19.03	-15.54/-12.33	-12.56/-12.81	-16.85/-11.38	-10.76/-11.95	-16.27/-15.46	-19.29/-5.67	-4.4/-16	-5.84/-6.56	
Θ(165°)	-11.97/-18.68	-18.44/-13.39	-10.56/-9.3	-9.36/-10.12	-11.44/-12.5	-14.1/-17.07	-18/-18.57	-16.11/-12.92	-11.25/-11.05	-10.95/-10.31	-8.96/-7.91	-8.14/-10.26	-16.05/-18.39	-13.61/-11.97	-13.66/-18.74	-17.59/-18.86	-16.72/-14.18	-12.98/-11.73	-11.25/-9.82	-8.78/-9.73	-13.69/-18.88	-14.78/-10.24	-7.78/-6.48	-6.69/-8.33	
Θ(172.5°)	-17.45/-17.71	-15.22/-12.12	-9.61/-9.38	-9.37/-10.31	-11.36/-12.74	-15.22/-18.24	-18.18/-15.48	-12.77/-12.69	-13.92/-15.06	-15.05/-15.27	-16.02/-17.12	-17.91/-18.76	-19.2/-19.24	-18.19/-18.99	-17.31/-17.46	-18.1/-17.51	-17.83/-18.54	-17.3/-16.82	-18.1/-19.06	-18.63/-16.74	-14.89/-13.87	-12.65/-12.75	-15.38/-18.77		
Θ(180°)	-10.64/-11.73	-13.42/-13.88	-15.4/-19.1	-18.31/-18.47	-17.52/-15.65	-15.32/-15.94	-14.75/-15.26	-15.08/-15.75	-15.09/-13.74	-11.47/-9.78	-8.44/-7.78	-7.25/-17.4	-7.08/-6.99	-7/-7.11	-7.22/-7.62	-8.36/-10.08	-12.17/-14.92	-16.4/-18.98	-19.49/-17.18	-17.69/-13.53	-11.92/-11.18	-10.99/-10.88	-10.24/-10.51	-10.46/-10.15	
Freq(Hz)	5.785GPol.	Theta/Ant. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)	
Θ(0°)	-4.66/-5.51	-6.67/-8.13	-9.62/-10.82	-13.18/-17.48	-17.6/-16.97	-19.04/-16.43	-12.89/-11.26	-10.16/-8.56	-7.63/-6.71	-6.2/-5.93	-5.88/-5.68	-5.56/-5.77	-5.98/-6.53	Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(7.5°)	-6.83/-7.31	-8.26/-9.47	-9.77/-10.61	-13.1/-18.17	-17.71/-18.13	-17.92/-13.25	-10.79/-9.77	-8.63/-7.01	-5.68/-4.57	-3.75/-3.36	-3.37/-3.33	-3.59/-4.02	-4.68/-5.27	-5.93/-6.51	-7.56/-8.87	-11.2/-14.4	-17.98/-16.66	-19.01/-18.64	-16.6/-13.97	-11.62/-10.56	-9.9/-9.26	-8.78/-8.08	-7.35/-6.61	-6.56/-6.54	
Θ(15°)	-7.2/-6.96	-7.96/-8.7	-8.54/-8.75	-9.33/-11.45	-14.1/-18.38	-19.14/-19.13	-18.72/-15.66	-12.72/-9.91	-7.89/-6.45	-5.52/-5.01	-4.74/-4.52	-4.48/-4.98	-5.86/-6.97	-8.33/-9.73	-11.35/-13.98	-18.75/-18.43	-18.23/-19	-17.86/-17.7	-18.24/-14.04	-10.95/-10.17	-9.83/-8.03	-10.68/-10.99	-10.01/-9.72	-8.79/-7.77	
Θ(22.5°)	-9.44/-7.63	-7.34/-7.05	-6.67/-7.31	-7.6/-9.5	-10.13/-10.8	-12.46/-13.91	-18.57/-17.42	-18.57/-9.41	-15.19/-12.96	-11.57/-11.85	-13.33/-14.73	-15.15/-16.65	-16.68/-17.08	-18.06/-18.14	-16.06/-15.33	-14.64/-14.03	-12.76/-14	-15.64/-17.96	-16.68/-14.48	-10.71/-11.83	-6.08/-6.45	-6.72/-6.45	-8.27/-11.22	-11.67/-11.18	
Θ(30°)	-4.86/-3.52	-3.82/-4.47	-5.51/-6.79	-7.86/-10.31	-12.4/-15.65	-19.17/-16.57	-14.47/-14.95	-15.08/-14.95	-17.92/-18.42	-17.99/-18.16	-15.81/-15.06	-14.24/-11.35	-9.35/-8.7	-9.45/-10.41	-10.77/-9.91	-9.12/-8.15	-8.66/-10.06	-11.69/-11.74	-12.13/-11.31	-9.19/-7.66	-5.41/-3.99	-3.95/-5	-7.49/-12.01	-12.46/-7.59	
Θ(37.5°)	-4.84/-4.28	-4.15/-3.66	-4.05/-4.08	-4.47/-6.16	-9.06/-9.14	-12.57/-11.54	-18.79/-19.12	-15.32/-11.89	-10.36/-12.23	-14.65/-14.45	-9.48/-5.99	-6.25/-7.13	-8.56/-8.38	-7.2/-6.68	-10.06/-13.11	-17.38/-18.09	-13.99/-7.34	-4.58/-3.88	-3.48/-3.1	-2.72/-3.49	-5.35/-3.38	-4.51/-2.84	-7.74/-6.45		
Θ(45°)	-4.35/-3.87	-2.85/-1.33	-0.98/-1.15	-2.32/-4.7	-7.03/-8.72	-11.97/-18.17	-15.49/-11.83	-13.02/-16.84	-18.58/-18.5	-15.88/-13.21	-13.02/-16.3	-18.13/-11.02	-9.38/-8.24	-9.11/-9.77	-8.75/-7.4	-7.37/-7.09	-7.69/-8.7	-10.07/-9.45	-9.96/-13.15	-11.01/-5.95	-2.73/-0.93	-4.66/-0.95	-3.52/-5.87	-5.24/-3.93	
Θ(52.5°)	-3.03/-1.04	0.63/-1.36	0.78/-0.45	-2.81/-5.06	-5.55/-6.82	-9.59/-14.03	-16.96/-15.04	-17.11/-17.6	-15.05/-11.19	-8.66/-6.66	-5.76/-6.45	-7.94/-8.58	-7.56/-7.78	-9.47/-8.52	-5.8/-6.43	-8.72/-8.59	-7.73/-8.08	-8.94/-11.57	-12.51/-11.33	-10.59/-7.4	-3.81/-2.46	-1.67/-1.5	-3.08/-4.45	-4.67/-3.99	
Θ(60°)	-0.590/0.4	1.22/-1.32	0.420/0.8	-1.17/-2.51	-3.34/-4.96	-6.1/-7.1	-8.7/-10.17	-12.47/-15.56	-6.65/-6.01	-5.52/-5.83	-5.27/-5.21	-5.31/-7.2	-6.17/-5.06	-7.09/-10.38	-6.65/-5.2	-5.99/-5.95	-8.08/-8.28	-6.19/-6.27	-8.08/-16.7	-10.49/-7.33	-3.46/-2.31	-2.26/-1.16	-1.68/-2.15	-1.87/-1.44	
Θ(67.5°)	1.040/57	1.091/05	0.741/02	-0.67/-2.32	-2.9/-4.07	-5.08/-5.75	-7.06/-8.03	-11.64/-15.52	-10.05/-8.59	-8.35/-8.54	-3.46/-4.67	-3.23/-2.39	-4.09/-6.7	-9.87/-9.27	-6.23/-5.17	-7.37/-7.57	-5.79/-5.49	-6.77/-6.55	-7.35/-7.02	-2.74/-1.88	-3.09/-0.96	-0.24/-1.35	-1.29/-0.31		
Θ(75°)	1.81/-1.54	1.61/-1.74	1.41/-27	0.21/-0.25	-0.41/-1.71	-2.91/-3.4	-4.78/-6.18	-7.12/-8.21	-8.33/-6.54	-6.45/-6.54	-8.46/-6.02	-2.78/-2.11	-1.05/-0.16	-0.64/-3.38	-7.87/-9.68	-5.48/-3.18	-5/-4.63	-3.05/-3.83	-4.44/-4.68	-6.81/-6.86	-2.8/-0.26	-1.0/-0.97	-0.74/-1.61	-0.51/-1.28	
Θ(82.5°)	1.43/-1.11	1.490/75	2.192/-9	1.890/-33	-1.59/-2.79	-4.63/-6.82	-10.11/-10.26	-11.15/-11.11	-9.18/-8.41	-7.96/-6.59	-5.68/-5.68	-2.42/-2.26	-1.21/-1.32	0.97/-2.11	-4.86/-5.11	-1.63/-2.78	-4.67/-2.3	-0.85/-0.77	-2.54/-3.61	-5.14/-4.65	-3.01/-0.06	-0.2/-0.43	-0.95/-1.53	0.76/-2.6	
Θ(90°)	1.05/-0.84	1.922/-41	3.663/-17	-0.02/-0.47	-1.53/-1.44	-3.74/-7.05	-10.92/-14.14	-18.09/-13.07	-10.23/-7.37	-7.6/-5.5	-5.01/-5.58	-2.86/-5.89	-2.220/75	-0.05/-2.02	-2.37/-1.74	0.34/-0.34	-1.18/-1.02	-1.21/-0.57	-1.81/-1.98	-8.44/-6.54	-2.9/0.8	1.990/-8	-1.7/-2.76	0.683/22	
Θ(97.5°)	0.67/-1.45	2.23/-1.84	2.552/-34	0.630/-19	-3.05/-3.97	-8.59/-17.21	-17.92/-15.67	-11.82/-7.81	-8.01/-6.87	-8.39/-5.2	-2.23/-1.74	0.34/-3.64	0.512/07	-0.05/-2.37	-2.36/-2.48	-0.43/-1.31	0.26/-1.74	0.02/-0.9	-3.21/-2.4	-7.61/-6.3	-1.24/-0.47	-0.56/-0.97	-2.55/-2.71	0.372/56	
Θ(105°)	-0.7/-2.65	1.361/-94	2.272/-4	-2.58/-3.56	-3.87/-4.64	-7.6/-13.67	-12.13/-15.19	-19.1/-14.81	-11.95/-6.98	-10.63/-7.21	-9.09/-6.08	-1.1/-5.64	-1.92/-32	1.5/-1.72	-3.38/-2.45	-1.61/-0.87	-1.06/-3.25	-0.37/-2.36	-6.95/-3.4	-9.31/-12.05	-4.56/-3	-2.49/-2.95	-3.43/-2.49	0.541/-89	
Θ(112.5°)	-2.37/-3.89	0.890/-84	-0.11/-1.54	-5.03/-2.36	-2.09/-5.55	-11.43/-13.62	-12.65/-12.76	-9.85/-10.87	-15.47/-12.31	-14.46/-6.82	-4.26/-7.67	-3.52/-0.5	-1.38/-5.91	-4.62/-3.37	-0.680/-92	-3.1/-3.84	0.071/-1.69	-5.71/-4.87	-7.73/-13.06	-4.18/-2.35	-3.41/-3.48	-6.07/-3.61	0.691/-44		
Θ(120°)	-2.78/-4.81	-2.61/-1.53	-2.68/-2.23	-2.96/-4.71	-7.16/-8.41	-7.57/-9.63	-13.01/-12.66	-14.12/-12.27	-9.06/-12.41	-15.09/-6.81	-2.61/-3.63	-2.56/-0.58													



Radiated Composite Gain

Appendix A

Θ (127.5°)	-14.23/-11.2	-9.1/-8.1	-7.79/-10.11	-11.12/-9.41	-10.66/-13.51	-15.21/-11.2	-9.49/-10.4	-14.33/-17.88	-11.66/-10.23	-9.49/-12.06	-12.9/-10.3	-12.45/-10.7	-11.73/-9.96	-8.62/-11.39	-13.2/-11.73	-18.48/-16.74	-12.37/-7	-12.94/-18.89	-19.06/-14.42	-9.27/-10.83	-15.99/-11.65	-13.39/-10.03	-13.72/-18.06	-15.6/-15.51
Θ (135°)	-11.84/-19.28	-12.88/-9.68	-6.13/-5.68	-7.38/-9.71	-11.11/-12.78	-13.68/-13.47	-13.84/-16.14	-18.16/-17.99	-11.78/-7.21	-6.3/-6.73	-6.16/-8.35	-7.12/-6.49	-9.44/-8.15	-6.93/-9.43	-8.77/-11.64	-18.99/-18.62	-12.23/-9.27	-17.2/-15.29	-18.37/-15.14	-10.25/-9.66	-17.75/-8.72	-8.19/-8.56	-9.73/-15.07	-18.69/-14.18
Θ (142.5°)	-6.3/-9.19	-8.21/-7.45	-7.33/-7.36	-8.63/-10.85	-15.63/-16.46	-14.84/-13.23	-12.81/-13.5	-15.49/-19.43	-18.85/-16.43	-17.56/-14.15	-13.97/-12.96	-11.28/-13.84	-10.34/-13.58	-18.71/-18.02	-18.45/-18	-13.39/-11.84	-8.85/-9.79	-15.93/-16.79	-17.53/-16.06	-9.52/-14.41	-14.43/-18.07	-15.47/-13.94	-14.56/-13.98	-12.75/-12.42
Θ (150°)	-10.19/-10.87	-13.61/-11.65	-9.79/-8.3	-7.64/-7.27	-7.92/-9.52	-10.73/-11.39	-11.49/-12.27	-15.33/-18.15	-18.63/-19.02	-15.92/-13.82	-13.05/-11.04	-9.8/-10.51	-13.63/-18.1	-18.79/-18.56	-17.27/-16.6	-12.75/-10.99	-9.99/-11.4	-16.1/-19.27	-18.09/-16.36	-17.98/-18.66	-18.42/-18.4	-12.75/-9.94	-11.34/-12.59	-10.39/-10.15
Θ (157.5°)	-8.11/-7.82	-9.24/-9.11	-7.91/-9.1	-8.32/-8.78	-9/-9.5	-9.86/-10.02	-12.47/-14.11	-15.87/-16.17	-17.21/-17.46	-17.24/-19.13	-18.82/-18.58	-14.99/-13.82	-13.71/-14.03	-15.62/-17.54	-17.7/-14.47	-18.09/-19.23	-18.51/-17.34	-17.72/-16.2	-16.23/-14.03	-14.8/-17.1	-17.93/-18.1	-14.68/-11	-10.01/-10.8	-10.34/-12.9
Θ (165°)	-12.65/-11.63	-10.5/-9.19	-8.53/-8.83	-9.42/-9.96	-10.5/-11.46	-11.65/-11.71	-11.51/-10.96	-10.77/-10.93	-11.46/-12.21	-12.95/-12.93	-12.39/-11.68	-11.52/-11.59	-11.54/-11.33	-10.81/-10.57	-10.87/-11.55	-13.22/-15.09	-17.42/-16.93	-18.71/-18.34	-18.23/-18.53	-17.93/-19.19	-18.74/-18.18	-15.47/-13.94	-14.56/-13.98	-12.75/-12.42
Θ (172.5°)	-13.72/-12.33	-11.43/-11.53	-12.64/-14.12	-14.7/-14.66	-14.26/-14.42	-14.54/-14.54	-14.82/-15.5	-16.08/-16.66	-17.26/-16.34	-14.07/-11.82	-9.77/-8.45	-7.67/-7.11	-6.99/-7.48	-8.59/-10.43	-12.68/-14.95	-18.21/-17.9	-18.28/-18.76	-18.1/-15.93	-14.32/-13.37	-12.93/-13.59	-15.23/-15.99	-16.53/-17.16	-17.46/-15.19	-14.24/-14.08
Θ (180°)	-13.95/-13.19	-13.08/-12.9	-12.85/-13.82	-14.47/-15.06	-15.51/-15.71	-16.52/-16.73	-16.47/-16.54	-16.41/-15.8	-16.17/-17.63	-18.29/-19.06	-17.61/-18.67	-17.93/-17.73	-17.18/-17.75	-17.93/-18.87	-19.1/-17.63	-18.95/-18.2	-18.13/-17.66	-17.79/-17.41	-17.69/-16.61	-16.67/-17.14	-17.11/-16.78	-16.21/-16.1	-16.15/-15.24	-14.3/-14.23
Freq(Hz)	5.2GPol.	Theta/Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-18.54/-18.66	-18.36/-18.39	-18.22/-16.38	-14.14/-12.45	-11.21/-10.43	-9.99/-10.0	-10.06/-10	-9.92/-9.78	-9.76/-10.15	-10.45/-11.09	-12/-13.65	-16.17/-18.62	-18.73/-19.29	-18.01/-17.34	-16.77/-14.06	-12.65/-11.23	-10.09/-9.17	-8.57/-8.29	-8.27/-8.29	-8.65/-9.16	-9.62/-10.13	-10.69/-11.34	-11.86/-13.31	-14.96/-18.05
Θ (7.5°)	-18.35/-18.24	-18.61/-15.62	-14.84/-14.14	-12.63/-11.45	-10.35/-9.5	-9.36/-9.49	-9.22/-9.01	-8.58/-8.27	-8.02/-8.13	-8.27/-9.01	-9.96/-11.31	-13.15/-15.98	-18.85/-19.43	-18.24/-18.28	-18.27/-15.12	-12.83/-11.49	-10.27/-9.43	-8.87/-8.67	-8.41/-8.33	-8.73/-9.23	-10.16/-11.35	-12.39/-13.08	-14.02/-14.89	-15.68/-17.27
Θ (15°)	-18.56/-19.21	-17.95/-15.98	-13.77/-12.6	-10.94/-9.97	-9.46/-9.2	-9.22/-9.24	-8.44/-7.78	-7.14/-6.77	-6.63/-6.81	-7.01/-7.36	-7.58/-7.9	-8.65/-10.01	-11.55/-13.04	-14.1/-14.34	-13.89/-13.22	-12.98/-12.46	-12.18/-11.85	-11.27/-10.39	-10/-9.22	-9.16/-9.36	-10.28/-11.05	-11.75/-12.14	-13.34/-14.81	-17.39/-18.88
Θ (22.5°)	-18.63/-17.98	-18.09/-14.92	-12.16/-10.39	-8.85/-7.49	-6.95/-6.66	-6.32/-6.02	-5.73/-5.78	-5.94/-6.21	-6.54/-6.57	-6.35/-6.13	-5.82/-5.78	-6.55/-7.81	-9.17/-10.1	-10.04/-9.46	-8.94/-9.09	-9.6/-10.17	-10.54/-10.63	-10.92/-11.41	-11.36/-11.02	-11.12/-11.51	-12.59/-14.69	-17.38/-18.99	-18.76/-18.29	-18.04/-17.37
Θ (30°)	-15.74/-14.93	-14.66/-15.77	-10.53/-10.72	-8.18/-6.46	-5.8/-5.28	-4.45/-3.93	-3.9/-4.17	-4.49/-5.04	-5.77/-6.5	-6.88/-7.14	-7.06/-7.08	-7.04/-7.33	-7.18/-7.19	-7.29/-7.45	-7.62/-8.35	-9.7/-10.36	-10.84/-12.61	-15.92/-16.92	-17.31/-18.46	-16.94/-15.27	-17.24/-17.59	-18.24/-18.58	-17.78/-17.29	-16.48/-16.31
Θ (37.5°)	-9.6/-8.27	-7.15/-6.89	-7.47/-6.54	-5.42/-4.36	-3.99/-3.52	-2.86/-2.21	-2.04/-2.32	-3/-4.2	-5.79/-7.42	-8.67/-9.38	-9.31/-8.33	-7.34/-6.22	-5.83/-4.91	-4.74/-5.68	-6.95/-8.32	-9.78/-11.51	-15.84/-14.82	-16.15/-17.69	-17.61/-14.28	-13.05/-12.35	-13.33/-15.86	-16.46/-14.71	-14.19/-13.83	-12.62/-11.15
Θ (45°)	-6.49/-4.89	-3.52/-3.57	-4.01/-3.24	-2.36/-1.59	-1.32/-1.74	-2.04/-1.68	-0.98/-0.65	-0.75/-1.65	-3.45/-5.48	-7.58/-9.14	-8.11/-7	-5.35/-4.45	-4.13/-3.37	-2.88/-3.71	-5.05/-6.23	-7.82/-10.43	-8.71/-9.93	-12.48/-10.97	-9.09/-9.51	-10.59/-10.94	-11.21/-11.92	-13.36/-14.42	-14.26/-12.73	-9.7/-7.46
Θ (52.5°)	-5.74/-5.12	-3.24/-2.78	-3.02/-2.34	-2.21/-1.41	-0.54/-0.63	-1.06/-1.69	-1.76/-1.36	-1.18/-1.61	-2.73/-4.74	-6.69/-7.74	-7.79/-7.13	-5.86/-4.76	-4.35/-3.83	-3.14/-3.78	-4.84/-5.51	-8.52/-9.76	-8.99/-8.92	-8.07/-8.14	-8.05/-7.93	-7.31/-7.37	-8.3/-11.09	-13.08/-13.44	-13.56/-12.71	-9.81/-9.94
Θ (60°)	-6.72/-4.49	-3.12/-2.12	-2.22/-1.76	-1.84/-0.79	-0.09/-0.08	-0.28/-0.87	-1.79/-2.02	-1.64/-1.4	-1.54/-2.76	-4.46/-5.42	-5.1/-4.33	-3.67/-3.03	-2.49/-2.55	-2.74/-3.75	-5.27/-6.4	-8.77/-7.61	-7.94/-8.98	-9.9/-9.67	-9.26/-8.21	-8.09/-9.54	-10.93/-11.74	-12.75/-13.52	-13.65/-13.05	-12.23/-9.9
Θ (67.5°)	-6.9/-4.46	-2.82/-2.49	-2.11/-1.85	-1.31/-1.4	0.51/-0.54	0.03/-0.93	-1.75/-3.03	-3.73/-3.51	-2.56/-1.84	-1.95/-1.76	-1.22/-0.76	-1.19/-1.76	-2.32/-3.46	-3.49/-3.91	-4.55/-6.49	-6.23/-5.8	-7.34/-6.9	-6.17/-16.6	-6.33/-6.5	-6.95/-7.69	-8.67/-11.15	-12.41/-12.92	-14.18/-16.42	-16.78/-17.61
Θ (75°)	-5.21/-2.78	-0.95/-0.16	-0.08/-0.12	0.21/-1.1	1.16/-1.9	1.03/-0.1	-1.14/-2.41	-3.2/-9.7	-2.35/-1.6	-1.14/-2.42	-0.40/-2.2	0.22/-0.17	-3.35/-4.51	-3.19/-2.56	-4.23/-4.85	-5.57/-4.48	-4.11/-4.24	-6.34/-3.42	-4.51/-11.99	-9.12/-12.52	-17.35/-18.63	-18.06/-13.58		
Θ (82.5°)	-4.45/-2.05	-0.41/-1.3	0.89/-0.8	1.28/-1.65	1.46/-1.43	1.32/-1.26	0.93/-0.31	-0.56/-1.49	-1.87/-1.3	-0.98/-1.67	-0.98/-0.52	0.2/-0.07	-1.24/-1.32	-3.77/-2.94	-2/-3.22	-3.27/-4.06	-4.65/-3.51	-2.5/-1.91	-2.4/-1.98	-2.46/-3.68	-3.97/-3.66	-6.69/-13.4	-18.87/-19.1	-9.96/-9.18
Θ (90°)	-4.2/-1.2	-1.42/-0.31	0.41/-0.64	0.88/-1.27	1.17/-1.54	1.43/-1.2	0.87/-0.45	0.26/-0.11	-1.3/-1.4	-0.36/-0.71	-0.04/-0.62	0.07/-1.03	-1.45/-1.93	-3.91/-1.64	-1.65/-0.25	-3.04/-3.84	-2.3/-0.93	-0.46/-1.22	-2.14/-2.07	-2.75/-3.06	-2.11/-3.38	-7.72/-16.95	-18.92/-18.1	-8.02/-5.44
Θ (97.5°)	-4.61/-2.05	-1.25/-0.08	-0.60/-0.33	0.51/-1.15	0.85/-1.53	1.43/-1.03	0.88/-0.58	0.81/-1.05	-0.09/-0.49	-0.08/-0.62	0.39/-0.21	0.71/-0.57	-1.06/-0.39	0.33/-1.27	-2.95/-2.01	-1.18/-0.32	-0.61/-0.79	-2.27/-2.13	-3.51/-5.11	-3.61/-4.32	-10.12/-18.09	-17.83/-18.16	-14.7/-8.26	
Θ (105°)	-4.46/-1.95	-1.37/-0.65	-1.16/-0.28	0.46/-2.27	1.59/-1.87	0.81/-0.32	-0.78/-0.28	1.12/-1.72	0.81/-0.01	-1.62/-3.7	-3.35/-4.16	-2.09/-2.52	-1.27/-1.14	-0.89/-0.09	-0.06/-1.44	-4.56/-3.78	-2.58/-0.97	-1.4/-1.87	-4.94/-3.34	-4.61/-4.74	-4.76/-4.87	-13.02/-19.28	-15.04/-18.21	-10.69/-7.08
Θ (112.5°)	-5.29/-4.05	-2.73/-2.77	-3.58/-2.16	-1.51/-1.5	1.1/-1.3	1.18/-1.04	-2.4/-3.21	-1.58/-0.5	-0.16/-0.17	-2.54/-3.41	-3.83/-3.54	-2.74/-2.78	-1.03/-1.85	-1.37/-1.87	-1.57/-2.11	-5.86/-4.8	-2.68/-2.02	-3.81/-6.78	-8.25/-7.54	-5.84/-4.07	-5.9/-6.13	-13.91/-17.32	-17.22/-16.91	-15.91/-10.28
Θ (120°)	-8.75/-9.39	-5.54/-4.15	-4/-3.19	-2.58/-1.08	-0.43/-0.33	-0.22/-0.54	-1.07/-2.16	-2.98/-2.3	-1.03/-0.95	-1.72/-2.28	-3.18/-2.12	-2.74/-1.92	-1.87/-1.61	-0.58/-0.97	-6.6/-5.55	-4.31/-4.34	-3.33/-4.82	-8.43/-8.83	-8.74/-7.97	-6.16/-9	-10.45/-18.12	-15.11/-17.91	-14.5/-19.9	
Θ (127.5°)	-10.41/-7.22	-6.84/-6	-6.4/-4.85	-3.23/-1.54	-0.46/-0.32	-0.49/-1.68	-3.25/-3.86	-3.79/-2.97	-2.71/-2.74	-3.75/-4.44	-5/-5.12	-3.68/-1.96	-2.31/-1.2	-1.25/-2.47	-6.66/-3.38	-8.64/-13.28	-4.25/-2.28	-3.14/-6.38	-7.73/-9.07	-8.57/-8.58	-5.26/-12.01	-13.71/-13.71	-8.45/-14.41	-17.91/-9.09
Θ (135°)	-15.69/-10.28	-12.59/-9.45	-7.52/-5.31	-2.66/-0.78	0.33/-0.8	0.31/-0.75	-2.5/-6.5	-9.35/-6.78	-3.77/-2.33	-2.45/-3.1	-4.93/-6.57	-5.52/-6.61	-7.81/-4.23	-5.44/-5.05	-3.91/-6.31	-6.16/-7.17	-4.25/-9.07	-13.14/-14.91	-13.49/-12.51	-7.57/-14.49	-17.97/-15.35	-9.68/-14.77	-13.07/-12.9	
Θ (142.5°)	-14.21/-10.47	-11.63/-11.88	-9.1/-6.74	-4.52/-3.28	-2.52/-1.75	-1.14/-1.53	-2.28/-3.39	-5.13/-6.68	-6.9/-6.5	-5.74/-6.1	-6.55/-6.72	-9.44/-11.05	-9.39/-9.69	-9.8/-7.98	-6.88/-5.11	-7.66/-9.36	-9.11/-17.84	-12.41/-13.67	-14.32/-15.86	-14.31/-17.96	-12.67/-11.13	-16.98/-18.32	-16.21/-13.94	-12.05/-12.39
Θ (150°)	-17.98/-18.12	-16.02/-12.78	-9.05/-5.98	-3.99/-2.47	-1.31/-0.88	-1.17/-1.87	-3.14/-4.53	-5.76/-7.14	-9.06/-10.36	-11.53/-11.16	-9.7/-8.65	-8.46/-8.94	-8.99/-11.4	-12.65/-11.9	-10.22/-9.16	-8.49/-8.42	-13.19/-16.63	-13.63/-15.54	-18.78/-19.13	-16.69/-17.06	-14.28/-14.67	-15.56/-15.71	-19.01/-18.2	-17.71/-17.99
Θ (157.5°)	-15.25/-18.08	-17.29/-14.36	-10.37/-5.9	-5.66/-4.55	-3.95/-3.54	-3.41/-3.65	-4.18/-5.4	-6.72/-7.68	-7.7/-7.76	-7.67/-7.32	-6.96/-6.78	-7.21/-8.02	-9.14/-10.04	-10.55/-10.73	-10.92/-11.56	-14.36/-18.77	-19.07/-18.42	-19.16/-18.7	-18.2/-18.23	-18.46/-18.31	-18.02/-17.72	-18.24/-18.83	-18.38/-16.4	-12.92/-13.04
Θ (165°)	-18.22/-17.19	-18.3/-15.83	-12.57/-9.9	-8.06/-6.62	-5.77/-5.47	-5.56/-5.95	-6.55/-7.23	-7.93/-8.62	-8.93/-8.73	-9.15/-10.03	-11.27/-12	-12.41/-12.16	-11.95/-11.25	-10.77/-10.53	-10.99/-12.16	-14.62/-16.83	-17.84/-18.69	-17.21/-18.61	-18.87/-18.03	-19.11/-18.59	-19.02/-18.78	-16.74/-18.17	-18.2/-18.22	-17.78/-19.7
Θ (172.5°)	-17.74/-19.13	-18.9/-17.25	-15.03/-14.64	-10.64/-13.75	-6.68/-11.42	-10.2/-9.11	-8.22/-7.76	-7.71/-7.86	-7.91/-7.69	-7.7/-8.13	-10.66/-10.84	-12.9/-14.91	-16.62/-17.81	-18.56/-18.62	-18.75/-18.77	-19.21/-18.03	-18.36/-16.58	-14.79/-14.1	-14.51/-1					



Θ(180°)	-17.44/-18.26	-14.43/-12.61	-11.99/-11.76	-10.9/-10.2	-10.44/-10.6	-10.93/-11.65	-12.23/-13.06	-14.04/-14.53	-15.42/-16.92	-17.84/-18.98	-18.64/-18.96	-17.11/-15.81	-16.23/-18.6	-19.03/-19	-17.71/-18.02	-19.22/-19.62	-18.01/-18.1	-18.24/-17.97	-17.76/-17.55	-17.79/-18.35	-16.43/-15.91	-15.17/-16.77	-17.43/-16.29	-16.66/-19.78
Freq[Hz]	5.6GPol.	Theta/Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-12.11/-11.77	-12.57/-13.51	-15.69/-16.62	-18.9/-18.08	-18.27/-17.59	-17.8/-18.81	-16.99/-15.47	-14.34/-13.67	-13.49/-12.36	-11.46/-11	-11.13/-11.45	-12.26/-12.89	-13.44/-13.31	-12.74/-12.78	-13.55/-14.05	-14.57/-14.94	-15.05/-14.06	-13.93/-13.5	-13.14/-13.09	-12.95/-13.02	-12.46/-11.87	-11.08/-11.3	-11.77/-12.22	-12.7/-12.68
Θ(7.5°)	-12.79/-13.55	-14.18/-13.95	-13.55/-11.66	-10.65/-10.74	-10.49/-10.53	-9.93/-9.38	-9.58/-9.8	-10.09/-10.92	-11.48/-11.8	-11.52/-11.54	-12.06/-12.43	-12.65/-13.65	-14.09/-13.64	-13.31/-13.76	-14.83/-16.23	-18.24/-19.16	-18.69/-18.07	-19.3/-17.4	-15.74/-14.9	-13.51/-13.72	-11.99/-11.47	-11.06/-10.94	-10.29/-10.62	-11.47/-12.4
Θ(15°)	-14.12/-13.79	-13.44/-13.22	-12.09/-9.86	-8.38/-7.99	-8.06/-8.22	-8.04/-7.71	-7.72/-7.57	-7.62/-8.03	-8.48/-9.32	-10.15/-11.62	-12.96/-12.58	-13.56/-13.61	-13.82/-14.53	-15.55/-17.1	-17.82/-17.46	-16.41/-15.37	-15.08/-15.38	-15.89/-15.4	-14.75/-13.7	-12.51/-11.9	-11.89/-12.96	-14.29/-16.13	-16.36/-15.84	-14.58/-14.09
Θ(22.5°)	-18/-17.93	-16.46/-15.67	-16.72/-17.37	-12.58/-9.75	-8.65/-8.65	-7.86/-6.57	-5.66/-7.52	-6.36/-7.61	-8.77/-10.01	-10.84/-11.82	-13.22/-14.44	-15.7/-15.77	-14.02/-12.23	-11.38/-11.83	-12.91/-13.53	-12.85/-11.47	-11.77/-12.15	-12.74/-13.62	-12.6/-12.43	-11.68/-11.48	-12.08/-13.45	-16.2/-18.4	-17.88/-18.21	-18.77/-18.17
Θ(30°)	-12.33/-12.46	-13.77/-12.78	-10.1/-10.11	-10.9/-8.88	-7.46/-7.21	-6.23/-5.32	-5.17/-5.49	-6.24/-7.75	-10.19/-11.4	-10.62/-9.05	-8.88/-10.27	-13.73/-16.92	-13.22/-9.59	-8.04/-7.72	-8.2/-9.84	-11.04/-11.78	-14.88/-16.2	-13.33/-11.44	-11.63/-13.46	-16.02/-18.03	-18.95/-18.26	-16.31/-14	-12.77/-12.18	-12.25/-11.82
Θ(37.5°)	-12.64/-8.82	-6.57/-5.95	-4.92/-4.4	-5.33/-4.49	-4.12/-4.32	-3.44/-2.89	-2.94/-2.88	-3.22/-4.75	-8.1/-11.11	-10.13/-8.09	-8.05/-10.29	-11.34/-11.39	-9.72/-8.76	-9.14/-9.44	-9.71/-10.56	-10.59/-11.93	-10.51/-8.62	-10.62/-17.19	-17.91/-18.44	-18.22/-17.4	-15.29/-13.86	-15.01/-15.71	-15.12/-13.85	
Θ(45°)	-9.27/-9.25	-6.68/-4.91	-3.81/-2.48	-2.18/-1.43	-0.99/-0.84	-0.98/-1.28	-1.16/-0.85	-1.06/-1.65	-3.21/-4.86	-5.27/-4.52	-4.73/-6.25	-8.47/-11.35	-12.11/-8.88	-7.6/-7.7	-7.61/-7.68	-7.68/-6.94	-6.18/-7.68	-9.17/-9.98	-14.39/-18.66	-12.68/-10.69	-12.32/-15.56	-16.31/-14.32	-12.11/-10.39	-9.14/-8.64
Θ(52.5°)	-7.72/-6.97	-5.53/-3.82	-2.84/-2	-0.98/-0.7	0.05/-1.7	0.08/-0.62	-0.94/-0.47	-0.3/-1.03	-2.16/-2.8	-2.74/-2.86	-3.45/-5	-7.55/-9.75	-11.51/-11.43	-9.03/-6.92	-5.67/-4	-3.8/-4.79	-7.18/-8.38	-9.96/-9.87	-9.32/-9.54	-9.69/-9.46	-9.5/-9.84	-9.96/-10.7	-10.08/-8.52	-8.71/-8.48
Θ(60°)	-6.54/-5.11	-3.36/-2.61	-1.58/-1.45	-0.60/-1.2	0.99/-1.55	1.430/-7.5	-0.1/-0.4	0.250/-0.33	-0.7/-1.79	-2.68/-3.77	-4.71/-6.12	-8.13/-8.7	-10.39/-9.9	-8.76/-6.82	-5.25/-2.79	-3.07/-4.94	-5.43/-5.95	-5.41/-6.32	-9.19/-9.29	-7.56/-7.34	-6.65/-9.99	-9.15/-7.34	-7.61/-9.52	
Θ(67.5°)	-4.43/-2.69	-1.41/-0.82	-0.74/-0.49	-0.060/-0.31	1.13/-1.77	2.31/-1.38	0.350/-11	0.81/-1.31	0.3/-1.59	-3.09/-6.53	-6.89/-8.38	-7.83/-7.7	-7.63/-7.6	-8.15/-7.4	-6.43/-3.95	-4.47/-4.33	-4.86/-6.3	-5.86/-6.68	-8.37/-8.22	-8.43/-10.24	-11.44/-10.28	-7.61/-8.22	-8.77/-10.23	-10.89/-6.62
Θ(75°)	-4.62/-2.55	-0.180/-39	0.740/-94	1.42/-14	1.65/-20.2	2.24/-1.53	-0.11/-1.79	-0.890/-32	0.34/-0.67	-1.43/-2.59	-2.87/-3.47	-4.11/-6.34	-7.09/-7.2	-5.72/-3.27	-3.96/-4.78	-5.96/-4.15	-3.39/-4.54	-5.19/-4.93	-6.83/-9.33	-8.25/-8.83	-8.44/-9.76	-13.35/-15.99	-15.38/-17.16	
Θ(82.5°)	-2.79/-2.33	0.20/-46	1.57/-1.99	2.14/-1.92	2.062/-0.1	2.23/-1.55	0.12/-1.52	-2.27/-1.16	-1.26/-1.71	-1.63/-1.32	-1.68/-2.15	-3.52/-4.22	-4.25/-6.5	-4.84/-4.68	-1.72/-0.8	-4.08/-2.59	-0.76/-1.42	0.32/-2.94	-4.46/-2.73	-2.86/-5.87	-6.8/-9.18	-13.5/-11.81	-13.2/-11.63	-11.26/-6.48
Θ(90°)	-4.29/-4.14	-0.54/-0.64	0.77/-1.1	1.84/-1.74	1.54/-1.44	1.72/-1.74	1.420/-4.8	-0.29/-1.07	-1.99/-2.13	-2.06/-1.31	-1.55/-0.56	-1.67/-0.85	-1.89/-1.56	-2.37/-3.03	-1.14/-1.97	-3.35/-4.03	-1.480/-96	1.280/-45	-2.13/-2.71	-3.56/-2.4	-2.94/-5.9	-10.48/-17.21	-14.55/-15.47	-15.69/-10.33
Θ(97.5°)	-5.15/-2.12	-2.84/-2.07	0.95/-1.8	2.31/-2.04	1.87/-1.33	0.67/-0.06	-0.35/-0.03	0.26/-0.38	-1.19/-1.49	-1.170/-47	0.53/-1.79	0.31/-0.5	-1.840/-06	-3.11/-1.77	-1.85/-2.38	-6.49/-2.98	1.25/-1.97	1.34/-1.8	-2.4/-1.39	-1.75/-2.75	-2.18/-5.29	-7.26/-11.86	-11.28/-13.47	-15.41/-6.25
Θ(105°)	-5.84/-3.04	-2.34/-2.01	0.82/-1.42	0.60/-41	1.220/-71	0.680/-46	0.090/-23	0.42/-0.52	-1.18/-1.76	-1.76/-1.1	-0.950/-02	-0.93/-0.2	-2.02/-29	-1.87/-1.44	-0.19/-0.24	-2.68/-3.6	-1.150/-4	-0.48/-0.58	-0.40/-2.4	-0.96/-3.83	-3.28/-2.55	-9.93/-13.32	-13.07/-18.5	-14.45/-7.15
Θ(112.5°)	-7.584/-4.72	-6.99/-3.33	-2.26/-2.47	-0.8/-1.16	0.1/-0.5	-0.7/-1.01	-0.610/-0.1	0.5/-0.02	-0.62/-2.34	-2.83/-4	-2.26/-1.48	-0.46/-0.01	-1.14/-0.51	-1.37/-0.97	-0.53/-1.31	-5.08/-7	-2.110/-59	-0.72/-3.32	-11.83/-5.37	-3.74/-7.35	-6.51/-4.29	-17.35/-12.06	-12.92/-18.44	-10.79/-6.11
Θ(120°)	-6.07/-5.3	-5.73/-5.25	-5.51/-5.35	-2.62/-1.07	0.03/-0.22	-1.2/-3	-5.34/-7.09	-4.83/-5.26	-1.97/-2.94	-1.51/-6.67	-4.78/-3.87	-1.21/-1.89	-0.87/-1.41	-0.86/-3.7	-0.33/-0.33	-3.84/-6.85	-3.27/-0.8	-4.24/-3.81	-10.03/-3.59	-2.34/-5.93	-8.9/-6.39	-9.44/-13.93	-15.08/-19	-8.96/-6.06
Θ(127.5°)	-9.68/-6.22	-12.56/-11.6	-8.79/-6.05	-4.68/-3.33	-2.54/-3.36	-2.54/-3.03	-3.34/-3.8	-0.23/-3.25	-2.69/-3.17	-3.92/-4.4	-5.01/-3.56	-4.58/-2.33	-3.05/-0.29	-0.010/-0.43	0.41/-0.17	-8.65/-10.62	-3.42/-1.74	-1.94/-4.37	-9.2/-8.45	-4.89/-7.68	-7.08/-10.97	-11.62/-19.4	-11.54/-6.87	
Θ(135°)	-12.82/-9.53	-11.25/-11.64	-13.04/-7.76	-5.29/-4.05	-3.78/-4.28	-5.09/-6.21	-5.91/-4.65	-3.87/-3.22	-2.82/-3.16	-4.5/-6.37	-6.48/-7.47	-6.47/-3.68	-3.56/-1.68	-1.42/-3.11	-1.57/-2.7	-7.3/-8.04	-8.29/-8.46	-6.29/-6.54	-11.98/-9.95	-6.77/-9.68	-7.42/-18.85	-16.71/-12.06	-10.62/-18.28	-11.87/-15.18
Θ(142.5°)	-17.86/-15.84	-14.64/-10.02	-9.14/-8.4	-6.68/-5.41	-3.65/-3.47	-4.62/-5.66	-7.04/-7.89	-7.83/-5.87	-5.19/-5.29	-6.41/-8	-10.19/-16.3	-7.32/-6.98	-4.89/-5.51	-5.61/-7.28	-5.78/-4.83	-3.27/-7.89	-6.38/-7.96	-18.91/-18.4	-17.81/-15.52	-11.07/-11.46	-12.03/-17.05	-18.52/-18.72	-17.89/-17.38	-15.95/-14.93
Θ(150°)	-18.53/-16.29	-16.71/-15.45	-16.88/-7.71	-5.72/-4.6	-4.33/-4.64	-5.75/-5.56	-9.61/-10.77	-9.79/-8.34	-7.67/-6.74	-7.51/-7.25	-7.47/-10.3	-7.04/-6.95	-6.09/-5.53	-6.18/-6.68	-7.28/-6.4	-1.04/-10.1	-9.43/-13.08	-15.22/-12.86	-15.75/-18.22	-15.88/-15.6	-16.82/-16.34	-19.32/-18.43	-17.91/-17.92	-10.57/-16.81
Θ(157.5°)	-12.54/-12.97	-14.12/-12.78	-10.79/-9.74	-9.3/-7.67	-6.1/-5.41	-6.04/-8.01	-10.34/-11.68	-11.98/-11.58	-9.98/-8.28	-7.74/-7.66	-8.06/-8.13	-8.41/-8.8	-9.19/-9.46	-9.3/-8.02	-7.11/-6.72	-7.14/-8.97	-14.2/-18.33	-18.01/-13.68	-10.78/-10.3	-11.75/-13.08	-13.59/-12.82	-11.98/-15.29	-18.62/-16.55	-12.67/-12.2
Θ(165°)	-13.07/-13.77	-18.86/-17.88	-18.12/-16.16	-12.85/-11.48	-11.4/-11.81	-12.48/-10.38	-14.35/-15.94	-16.75/-17.42	-16.23/-14.5	-11.20/-9.97	-8.49/-7.89	-8.18/-9.1	-10.23/-11.27	-11.61/-11.59	-12.51/-14.24	-16.84/-18.77	-18.88/-19.13	-18.5/-12.97	-17.74/-17.68	-17.48/-18.69	-18.26/-16.04	-16.17/-18.79	-19.14/-18.93	-15.99/-15.63
Θ(172.5°)	-18.65/-18.46	-17.92/-17.87	-16.72/-17.87	-16.72/-15.48	-13.24/-10.39	-12.08/-12.33	-10.67/-12.17	-11.39/-11.2	-10.12/-10.97	-10.87/-12.18	-13.37/-14.49	-10.72/-10.97	-11.36/-12.18	-13.37/-14.49	-10.72/-10.97	-11.71/-19.05	-18.98/-17.85	-18.87/-17.26	-15.44/-16.27	-13.48/-13.11	-12.93/-12.55	-11.31/-15.93	-12.14/-13.16	
Θ(180°)	-13.43/-13.36	-14.41/-16.09	-18.36/-18.85	-18.55/-18.9	-17.78/-18.1	-19.31/-19.01	-16.54/-14.56	-12.86/-11.84	-10.71/-10.03	-9.63/-9.96	-10.21/-10.32	-10.95/-11.91	-12.68/-13.09	-13.04/-13.4	-14.18/-15.6	-16.58/-17.26	-18.32/-17.76	-17.6/-17.51	-18.6/-18.87	-18.21/-18.71	-17.76/-15.75	-13.83/-12.87	-13.45/-14.35	-14.27/-13.74
Freq[Hz]	5.785GPol.	Phi/Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-16.92/-18.21	-19.11/-17.57	-15.96/-15.15	-15.14/-15.35	-14.76/-13.73	-12.65/-11.36	-10.45/-10.1	-10.18/-11.48	-12.91/-13.51	-13.31/-12.11	-11.32/-11.5	-12.13/-14.13	-15.36/-15.09	-13.99/-13.13	-13.49/-14.43	-14.79/-14.06	-14.14/-14.14	-13.88/-14.13	-13.48/-13.13	-12.74/-12.89	-12.93/-12.81	-12.25/-11.81	-11.38/-11.01	-12.52/-15.58
Θ(7.5°)	-13.98/-14.06	-13.67/-12.47	-11.42/-11.66	-12.9/-14.14	-14.38/-14.43	-14.14/-13.04	-13.06/-12.7	-13.07/-13.58	-13.62/-12.8	-12.08/-12.28	-13.65/-15.79	-18.42/-18.91	-18.81/-18.8	-18.75/-18.31	-18.93/-17.42	-14.7/-13.11	-12.06/-11.48	-11.39/-11.71	-11.65/-11.8	-11.38/-11.6	-11.79/-11.93	-12.04/-12.34	-11.47/-10.66	-11.53/-13
Θ(15°)	-10.75/-10.51	-10.35/-9.77	-9.71/-8.95	-10.2/-11.24	-11.46/-11.72	-12.4/-12.73	-13.47/-13.51	-14.34/-15.2	-15.9/-16	-15.54/-16.05	-17.18/-18.8	-18.35/-17.44	-17.72/-18.25	-19.59/-17.13	-16.77/-15.38	-10.25/-11.25	-10.98/-10.61	-10.28/-9.97	-9.56/-9.76	-10.25/-11.16	-12.48/-13.26	-14.02/-14.55	-13.6/-12.76	-11.23/-10.4
Θ(22.5°)	-12.3/-11.6	-11.51/-11.01	-10.76/-10.22	-10.1/-11.26	-11.39/-11.72	-12.57/-12.94	-13.22/-13.61	-14.32/-14.98	-15.64/-16.71	-17.74/-18.09	-17.12/-15.08	-13.69/-13.26	-13.68/-14.22	-13.89/-13.55	-13.47/-13.06	-12.54/-11.2	-9.88/-9.59	-9.5/-9.56	-9.79/-9.94	-10.23/-11.65	-12.9/-14.03	-13.79/-14.08	-14.34/-14.83	-13.98/-13.07



Radiated Composite Gain

Appendix A

Θ(30°)	-6.67/-5.15	-3.88/-2.83	-1.92/-1.11	-0.33/-0.46	1.1/-1.56	1.79/-1.87	1.89/-1.8	1.55/-1.17	0.67/-0.06	-0.63/-1.45	-2.53/-4.08	-6.14/-8.98	-12.09/-13.34	-11.9/-10.2	-8.99/-8.22	-7.68/-7.16	-6.51/-5.84	-5.17/-4.67	-4.49/-4.74	-5.62/-7.1	-9.2/-12.12	-15.84/-17.91	-15.77/-12.94	-10.38/-8.23
Θ(37.5°)	-9.35/-7.21	-5.32/-3.68	-2.3/-1.25	-0.37/-0.44	1.12/-1.56	1.76/-1.78	1.74/-1.61	1.30/-85	0.29/-0.29	-0.97/-1.81	-2.96/-4.63	-7.07/-10.1	-15.45/-17.47	-14.34/-11.69	-10.06/-9.07	-8.66/-8.7	-9.03/-9.04	-8.34/-7.46	-6.83/-6.81	-7.5/-9.03	-11.41/-14.31	-17.09/-17.94	-17.19/-15.9	-13.9/-11.48
Θ(45°)	-13.04/-9.54	-6.73/-4.47	-2.71/-1.49	-0.69/-0.07	0.43/-0.71	0.73/-0.54	0.26/-0.11	-0.66/-1.37	-2/-2.68	-3.53/-4.22	-5.37/-7.01	-9.53/-13.7	-17.9/-17.72	-15.69/-11.44	-8.85/-7.27	-6.44/-6.46	-7.24/-5.39	-9.25/-8.99	-6.26/-7.69	-7.55/-7.95	-8.62/-9.41	-10.34/-11.92	-14.65/-18.29	-19.26/-18.27
Θ(52.5°)	-7.23/-6	-4.82/-3.59	-2.44/-1.57	-1.01/-0.61	-0.34/-0.16	-0.23/-0.53	-1.03/-1.74	-2.76/-4.02	-5.41/-6.64	-7.79/-9.04	-10.86/-13.48	-17.57/-17.85	-18.47/-15.6	-12.76/-10.2	-8.27/-6.89	-6.12/-6.1	-6.87/-7.93	-8.35/-7.64	-6.55/-5.7	-5.34/-5.35	-5.54/-5.84	-6.44/-7.55	-8.95/-9.81	-9.56/-8.4
Θ(60°)	-4.36/-3.9	-3.5/-3.05	-2.6/-2.21	-1.83/-1.42	-0.95/-0.39	0.06/-0.22	0.08/-0.32	-1/-1.94	-3.15/-4.24	-5.39/-6.85	-9.18/-13.06	-18.14/-18.75	-17.83/-14.51	-12.61/-11.2	-9.71/-8.35	-7.57/-7.73	-8.98/-10.6	-10.9/-9.01	-6.92/-5.63	-5.27/-4.59	-5.73/-5.99	-6.32/-6.83	-7.24/-6.89	-5.99/-5.02
Θ(67.5°)	-4.61/-4.57	-4.6/-4.46	-4.32/-4.22	-4.09/-3.62	-2.89/-1.93	-1.11/-0.65	-0.57/-0.84	-1.43/-2.37	-3.57/-4.73	-5.8/-7.33	-10.09/-14.36	-17.75/-16.52	-14.48/-13.06	-12.23/-11.63	-10.68/-9.28	-8.27/-8.25	-9.35/-11.23	-13.39/-13.1	-10.46/-8.79	-8.62/-9.49	-10.23/-10.5	-10.14/-9.58	-9.06/-7.94	-6.36/-5.2
Θ(75°)	-6.86/-7.44	-8.57/-9.18	-9.17/-9.13	-8.62/-7.37	-5.91/-4.55	-3.44/-2.7	-2.57/-2.98	-3.87/-5.08	-6.43/-7.33	-7.77/-8.64	-10.3/-11.49	-11.95/-12.38	-12.03/-11.05	-10.71/-11.51	-13.38/-14.56	-13.25/-11.68	-10.74/-10.51	-10.96/-12.08	-12.55/-12.41	-13.46/-16.15	-18.62/-18.76	-15.93/-12.56	-11.14/-10.31	-8.89/-7.39
Θ(82.5°)	-9.19/-9.41	-11.06/-13.42	-14.5/-13.89	-12.09/-9.76	-7.78/-6.29	-4.98/-4.09	-3.9/-4.43	-5.58/-6.99	-8.1/-8.19	-7.83/-7.83	-8.18/-8.6	-9.39/-9.48	-8.38/-7.47	-7.48/-8.14	-9.42/-12.14	-18.04/-17.96	-18.2/-15.64	-12.75/-11.85	-12.4/-14.04	-17.29/-18.53	-18.95/-17.9	-18.78/-13.91	-11.06/-10.49	-10.69/-9.98
Θ(90°)	-12.08/-12.14	-14.1/-11.93	-18.33/-18.95	-18.65/-14.72	-12.04/-10.56	-9.67/-8.7	-8.12/-8.23	-8.66/-9.02	-9.04/-8.81	-8.46/-8.12	-8.15/-9.07	-10.16/-9.09	-7.45/-6.91	-7.16/-7.07	-6.95/-7.91	-10.08/-12.56	-15.72/-18.05	-14.56/-12.54	-13.7/-18.3	-18.54/-17.53	-14.94/-12.57	-13.65/-15.07	-12.28/-10.62	-11.03/-12.16
Θ(97.5°)	-14.46/-17.52	-19.35/-17.35	-17.86/-14.16	-10.85/-9.2	-8.23/-7.47	-7.26/-7.42	-7.77/-8.26	-8.62/-9.16	-10.3/-12.08	-13.84/-14.1	-15.49/-18.6	-13.76/-9.24	-7.76/-7.84	-7.74/-7.01	-7.13/-8.52	-10.07/-10.85	-12.13/-11.83	-9.56/-8.72	-10.47/-15.04	-17.99/-18.31	-13.06/-10.06	-9.8/-11.64	-12.01/-10.27	-9.91/-11.46
Θ(105°)	-19.21/-18.55	-15.82/-14.1	-13.85/-11.31	-8.81/-8.11	-9.14/-12.77	-10.42/-10.15	-10.78/-10.98	-10.8/-10.62	-11.65/-13.49	-12.88/-10.76	-9.65/-8.36	-5.99/-4.07	-3.45/-3.55	-3.57/-3.62	-4.49/-6.03	-7.18/-8.16	-9.96/-10.61	-8.84/-8.11	-9.59/-13.17	-17.97/-18	-13.58/-10.02	-8.78/-9.62	-11.81/-12.46	-12.23/-13.95
Θ(112.5°)	-11.25/-12.9	-10.89/-9.28	-8.87/-6.5	-6.33/-6.36	-8.5/-12.77	-15.36/-13.68	-11.84/-10.6	-9.4/-8.44	-8.52/-9.99	-11.22/-10	-8.93/-8.84	-8.28/-7.03	-6.16/-5.83	-5.85/-6.49	-8.35/-10.85	-12.78/-15.92	-19.28/-15.33	-10.2/-8.65	-9.01/-10.29	-11.73/-12.02	-10.85/-8.83	-7.18/-6.87	-7.45/-8.64	-9.2/-9.64
Θ(120°)	-16.17/-18.42	-9.95/-6.87	-6.12/-5.93	-5.59/-5.86	-7.54/-11.05	-14.63/-13.57	-11.42/-10.54	-10.18/-9.61	-8.62/-11.2	-16.08/-17.28	-18.18/-18.44	-18.67/-19.26	-13.97/-12.3	-13/-15.91	-19.36/-18.92	-19.19/-19.25	-18.82/-12.23	-9.53/-8.94	-9.8/-11.53	-13.37/-14.12	-13.49/-11.71	-9.34/-7.88	-7.91/-8.94	-10.01/-11.6
Θ(127.5°)	-18.72/-19.12	-7.18/-5.03	-4.36/-4.26	-4.42/-5.18	-7.18/-11.04	-17.56/-17.79	-16.26/-14.58	-13.71/-12.92	-13.42/-16.99	-17.67/-16.24	-13.19/-14.12	-18.9/-19.01	-17.54/-15.42	-16.02/-17.87	-19.1/-16.14	-13.32/-12.17	-12.77/-14.5	-17.18/-18.13	-15.25/-11.62	-8.82/-7.13	-6.65/-7.35	-8.42/-9.04	-9.85/-11.79	-15.11/-19.33
Θ(135°)	-18.44/-18.16	-13.23/-10.65	-10.27/-11.08	-12.61/-15.8	-12.88/-15.92	-10.35/-7.38	-5.72/-4.79	-4.46/-4.6	-5.49/-7.15	-8.91/-8.8	-7.53/-6.85	-7.17/-8.14	-8.94/-9	-8.83/-9.32	-10.52/-10.22	-7.97/-6.32	-5.85/-6.37	-7.33/-7.69	-7.03/-5.94	-4.99/-4.42	-4.58/-7.72	-8.01/-10.72	-13.24/-15.36	-17.48/-18.99
Θ(142.5°)	-11.87/-11.49	-10.96/-11.12	-12.79/-16.51	-18.67/-17.77	-12.48/-8.74	-6.1/-4.35	-3.23/-2.66	-2.6/-3.08	-4.2/-5.97	-7.96/-8.61	-7.64/-6.42	-5.65/-5.23	-5.09/-5.2	-5.81/-7.23	-9.3/-9.8	-8.6/-5.7	-6.25/-6.76	-7.32/-7.02	-6.44/-6.14	-6.04/-5.93	-5.9/-6.32	-7.43/-9	-10.73/-11.98	-12.09/-11.87
Θ(150°)	-9.41/-9.82	-10.34/-11.56	-14.35/-16.48	-19.02/-18.35	-14.82/-12.02	-10.06/-8.6	-7.58/-7.13	-7.33/-8.05	-9.57/-11.9	-15.15/-16.95	-15.06/-10.77	-9.81/-8.24	-7.39/-7.34	-8.1/-9.64	-10.79/-9.36	-6.91/-5.12	-4.12/-3.56	-2.98/-2.21	-1.5/-1.08	-0.87/-0.72	-0.67/-0.81	-3.31/-2.2	-3.55/-5.26	-7.08/-5.99
Θ(157.5°)	-13.95/-16.2	-18.86/-18.82	-17.85/-18.55	-12.71/-10.18	-8.8/-8.36	-8.8/-10.06	-12.18/-15.55	-9.67/-14.77	-15.89/-17.12	-15.89/-16.28	-13.84/-10.77	-18.54/-18.21	-15.91/-13.51	-10.83/-8.23	-6.17/-4.74	-3.83/-2.25	-2.81/-2.23	-1.64/-1.24	-1.11/-1.13	-1.28/-1.6	-2.23/-3.28	-4.8/-6.83	-9.35/-11.92	
Θ(165°)	-18.98/-18.71	-18.45/-15.3	-12.63/-10.47	-8.76/-7.36	-6.43/-5.98	-6.01/-6.42	-6.97/-7.4	-7.56/-7.42	-7.21/-7.01	-7.05/-7.41	-8.11/-9.28	-10.93/-12.89	-14.62/-15.22	-11.44/-13.01	-11.42/-10.03	-8.97/-8.06	-7.45/-7.18	-7.1/-6.86	-6.49/-6.34	-6.57/-7.03	-7.71/-8.47	-9.45/-10.96	-13.25/-16.63	-18.04/-17.75
Θ(172.5°)	-11.46/-11.61	-11.72/-11.38	-10.81/-10.13	-9.37/-8.51	-7.74/-7.14	-6.73/-6.46	-6.23/-5.97	-5.7/-5.49	-5.33/-5.27	-5.31/-5.57	-5.94/-6.48	-7.12/-7.86	-8.54/-9.12	-9.55/-10.44	-10.73/-11.54	-12.38/-13.14	-14.05/-15.43	-17.2/-18.57	-19.05/-18.56	-17.84/-17.96	-18.65/-18.76	-17.81/-16.01	-14.41/-13.08	-12.02/-11.43
Θ(180°)	-6.93/-7.87	-8.89/-9.88	-10.88/-11.86	-12.48/-12.54	-12.12/-11.37	-10.56/-9.77	-9.08/-8.43	-7.84/-7.35	-7.13/-6.91	-6.72/-6.68	-6.69/-6.79	-6.91/-7.05	-7.26/-7.52	-7.91/-8.44	-9.31/-10.46	-11.79/-12.96	-13.88/-14.5	-14.36/-13.44	-12.39/-11.68	-10.64/-9.43	-8.29/-7.39	-6.7/-6.3	-6.01/-5.93	-5.96/-6.29
Freq[Hz]	5.2GPol.	PhiAnt. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	0.7/-0.86	-0.99/-1.43	-1.95/-2.86	-4.17/-5.78	-7.84/-10.05	-14.49/-17.78	-19.43/-13.71	-27.94/-7.35	-5.29/-3.81	-2.72/-1.84	-1.05/-0.44	-0.06/-0.26	0.48/-0.46	0.24/-0.19	-0.97/-1.95	-3.18/-4.72	-6.99/-10.2	-15.31/-18.82	-17.52/-12	-8.99/-6.58	-4.56/-3.19	-2.15/-1.46	-0.76/-0.32	-0.24/-0.41
Θ(7.5°)	1.05/0.96	0.85/0.4	-0.18/-1.06	-2.51/-4.11	-6.43/-9.46	-12.41/-16.38	-17.78/-13.83	-10.35/-7.99	-5.9/-4.33	-3.16/-2.29	-1.6/-1.21	-0.93/-0.84	-0.8/-0.93	-1.21/-1.89	-2.89/-4	-5.44/-7.29	-9.92/-13.54	-19.06/-17.64	-15.43/-10.99	-8.2/-6.02	-4.27/-2.86	-1.78/-0.9	-0.18/-0.43	0.61/0.81
Θ(15°)	1.87/1.83	1.71/3	0.62/0.32	-1.74/-3.2	-5.15/-7.35	-9.38/-11.45	-13.25/-14.2	-9.97/-7.52	-5.49/-3.86	-2.71/-1.77	-1.08/-0.53	-0.16/-0.01	-0.02/-0.26	-0.82/-1.65	-2.71/-4.09	-6.09/-8.6	-12.87/-18.6	-18.49/-16.24	-12.74/-10.26	-8.2/-6.29	-4.49/-2.87	-1.57/-0.59	0.26/1.01	1.33/1.7
Θ(22.5°)	2.78/2.77	2.54/2.1	1.63/0.26	-1.05/-2.49	-4.2/-5.89	-7.46/-8.97	-10.83/-9.65	-6.96/-4.94	-2.52/-1.17	-0.21/-0.48	0.84/-0.02	0.9/0.36	-0.42/-1.4	-2.52/-3.78	-5.13/-6.46	-9.74/-9.51	-11.77/-14.99	-18.31/-18.66	-16.35/-12.4	-9.72/-7.32	-5.3/-5.54	-2.17/-1.04	0.26/1.58	2.32/2.74
Θ(30°)	3.25/3.33	2.94/2.38	1.72/0.68	-0.82/-2.38	-3.89/-5.73	-8.94/-11.14	-9.55/-7.45	-5.46/-3.74	-1.77/-0.08	1.16/1.93	2.44/2.66	2.56/2.15	1.58/0.83	-0.04/-0.93	-2.25/-4.1	-6.93/-10.76	-14.82/-14.88	-14.5/-17.41	-18.48/-14.42	-9.02/-5.7	-3.64/-1.88	-0.6/-0.17	0.91/1.89	2.45/2.87
Θ(37.5°)	2.62/15	1.22/0.6	0.11/-0.58	-1.81/-3.17	-5.03/-7.95	-12.82/-15.65	-12.8/-8.88	-6.05/-3.91	-1.89/-0.36	0.64/1.35	1.94/2.27	2.32/2.11	1.51/0.57	-0.19/-0.76	-1.71/-3.23	-6.02/-11.56	-18.87/-18.98	-17.49/-19.31	-18.52/-13.5	-9.27/-5.56	-2.89/-1.21	-0.04/0.86	1.42/1.81	2.11/2.45
Θ(45°)	2.35/1.91	1.22/1.23	1.07/0.47	-0.71/-1.91	-3.74/-6.84	-10.4/-11.96	-10.93/-7.9	-5.27/-3.72	-2.62/-1.86	-1.24/-0.35	0.67/1.17	1.89/2.68	2.67/2.08	1.58/1.2	0.24/-1.09	-2.87/-5.95	-10.95/-17.87	-18.91/-18.9	-18.97/-9.45	-5.3/-3.94	-3.01/-2.06	-1.20/-1.9	1.46/1.84	1.82/1.97
Θ(52.5°)	-0.09/-0.32	-1.32/-1.37	-0.85/-0.72	-1.22/-2.57	-4.76/-7.67	-11.53/-14.66	-12.26/-8.23	-5.85/-4.75	-4.03/-3.43	-3.93/-3.19	-2.9/-2.15	-0.40/-0.75	0.85/0.8	0.92/0.7	-0.26/-1.81	-4.56/-8.9	-15.6/-18.64	-18.35/-18.19	-17.78/-11.83	-7.28/-4.58	-2.91/-1.54	-0.40/-0.45	1.16/1.15	-0.82/-0.06
Θ(60°)	-0.07/-0.07	0.07/-0.08	-0.4/-0.24	-4.09/-6.12	-8.18/-11.19	-17.01/-18.96	-16.74/-14.1	-11.93/-8.84	-5.31/-3.46	-3.21/-3.67	-4.44/-4.45	-2.8/-1.57	-1.09/-0.57	-0.33/-0.47	-1.15/-2.71	-5.01/-8.81	-16.44/-18.84	-18.71/-19.02	-18.83/-15.54	-10.4/-7.57	-4.86/-2.69	-1.06/0.05	0.57/0.39	-0.23/-0.93
Θ(67.5°)	-0.31/-0.2	1.26/-0.24	-1.71/-4.12	-7.57/-11.52	-17.94/-18.39	-19.03/-14.09	-12.85/-15.9	-19.16/-12.81	-7.43/-5.68	-5.34/-5.01	-4.51/-3.53	-2.3/-1.53	-0.56/0.37	0.16/-0.6	-1.47/-2.14	-3.18/-7.06	-17.59/-18.38	-14.36/-17.58	-18.95/-10.84	-6.78/-4.59	-2.16/-0.33	0.73/1.09	0.59/-0.24	-1.28/-1.15
Θ(75°)	1.59/2.09	1.77/0.09	-2.96/-6.27	-6.84/-7.66	-9.94/-15.62	-16.01/-11.79	-12.28/-12.39	-12.92/-12.81	-10.54/-9.6	-9.17/-5.25	-7.77/-3.77	-2.51/-1.46	-0.67/-0.31	-1.21/-2.52	-3.02/-3.58	-4.75/-8.66	-19.22/-17.48	-9.68/-10.97	-18.13/-16.65	-9.15/-4.89	-2.48/-0.6	-0.07/-0.12	-0.5/-0.5	-0.09/0.43
Θ(82.5°)	1.36/1.95	1.35/0.06	-1.7																					



Θ(82.5°)	-10.13/-8.34	-6.81/-5.62	-6.66/-6.63	-9.42/-11.73	-11.04/-12.04	-12.92/-12.45	-10.58/-8.82	-8.1/-7.88	-7.19/-7.55	-9.46/-12.27	-16.81/-14.68	-16.08/-16.93	-16.72/-19.28	-12.38/-9.3	-9.21/-8.81	-8.2/-8	-8.68/-8.64	-7.45/-8.13	-10.03/-11.68	-13.24/-14.71	-7.12/-7.61	-9.93/-11.81	-16.1/-15.79	-18.7/-14.1
Θ(90°)	-9.08/-9.29	-9.23/-8.08	-8.58/-8.11	-8.6/-9.67	-9.83/-11.91	-15.81/-16.66	-11.41/-10.35	-11.16/-12.57	-14.32/-14.52	-14.62/-10.49	-9.31/-7.05	-6.58/-7.86	-10.03/-11.26	-11.96/-15.23	-13.47/-9.63	-9.96/-7.47	-7.04/-9.4	-11.15/-10.38	-13.51/-11.02	-17.69/-14.81	-10.42/-10.37	-7.73/-11.19	-11.25/-10.52	-9.72/-12.72
Θ(97.5°)	-3.7/-10.18	-10.11/-8.99	-10.35/-10.45	-10.73/-12.17	-13.75/-18.07	-18.89/-15.66	-13.31/-12.6	-12.41/-13.44	-13.06/-14.73	-16.61/-16.59	-17.33/-10.09	-8.55/-7.53	-8.57/-9.87	-12.59/-10.01	-7.93/-9.56	-14.24/-19.07	-14.16/-6.65	-10.22/-8.85	-6.95/-11.06	-11.19/-12.52	-15.86/-13.65	-15.86/-12.82	-11.63/-10.36	-9.51/-10.62
Θ(105°)	-10.98/-10.43	-9.16/-9.29	-11.98/-11.3	-9.07/-9.36	-9.68/-15.44	-19.04/-17.89	-13.81/-13.09	-14.56/-17.31	-18.25/-18.5	-17.61/-19.3	-16.03/-10.89	-9.78/-7.18	-10.74/-10.56	-10.99/-12.25	-14.27/-11.09	-7.76/-6.5	-9.78/-16.05	-18.22/-17.42	-19.35/-11.92	-12.78/-18.16	-19.04/-13.77	-12.73/-17.6	-18.58/-15.51	-18.61/-15.62
Θ(112.5°)	-11.87/-10.41	-11.28/-12.17	-12.86/-9.64	-8.46/-10.41	-18.14/-18.14	-17.14/-13.63	-13.22/-16.13	-16.78/-17.82	-15.62/-10.58	-17.54/-16.65	-16.31/-9.57	-9.48/-8.3	-11.67/-13.29	-15.54/-18.1	-17.43/-17.16	-15.46/-19.12	-15.75/-19.03	-17.47/-18.42	-11.26/-10.88	-11.62/-10.74	-12.69/-14.36	-13.28/-13.43	-14.57/-17.83	-17.15/-19.16
Θ(120°)	-10.74/-10.84	-13.05/-13.78	-12.19/-11.78	-14.92/-18.86	-18.11/-12.34	-18.11/-12.34	-11.43/-12.76	-16.19/-16.06	-16.39/-17.19	-18.06/-12.86	-13.41/-14.79	-19.34/-19.32	-10.63/-7.59	-10.09/-11.4	-11.71/-12.3	-9.25/-4.12	-6.32/-9.04	-13.58/-14.54	-17.24/-17.42	-14.91/-10.52	-10.27/-15.54	-18.93/-18.52	-18.49/-12.65	-10.31/-10.86
Θ(127.5°)	-13.16/-10.29	-10.08/-11.95	-12.2/-10.43	-10.61/-12.79	-14.52/-15.43	-16.65/-15.97	-13.1/-12.9	-17.16/-18.07	-14.92/-13.4	-14.08/-15.96	-15.25/-11.41	-12.99/-13.46	-9.47/-15.42	-11.5/-8.69	-16.68/-13.04	-10.71/-5.02	-9.65/-9.09	-12.5/-9.02	-18.3/-18.97	-9.14/-11.7	-16.55/-19.02	-19.3/-18.46	-18.96/-18.57	-15.12/-12.92
Θ(135°)	-15.06/-18.77	-17.62/-17.56	-15.27/-15.4	-14.48/-12.89	-14.63/-18.27	-17.54/-16.48	-18.09/-19.26	-18.39/-18.6	-14.16/-11.92	-11.47/-13.07	-15.23/-15.54	-11.84/-9.64	-14.76/-17.96	-18.71/-18.12	-16.06/-11.2	-9.51/-12.79	-14.08/-12.02	-13.54/-7.7	-14.96/-19.2	-9.71/-11.01	-17/-10.72	-11.13/-17.4	-18.36/-14.98	-17.07/-16.21
Θ(142.5°)	-16.51/-17.58	-17.94/-19.23	-17.1/-16.53	-17.36/-19.22	-17.9/-13.26	-11.38/-10.33	-9.9/-10.87	-14.34/-18.71	-17.91/-18.65	-19.04/-17.63	-12.53/-12.42	-11.68/-10.24	-12/-16.12	-17.86/-17.45	-12.02/-10.57	-14.64/-13.57	-8.17/-10.38	-14.02/-12.4	-18.48/-18.17	-12.56/-8.33	-11.93/-18.23	-11.71/-14.02	-17.31/-12.88	-11.05/-13.93
Θ(150°)	-18.84/-18.01	-19.22/-16.9	-18.15/-18.34	-18.21/-17.19	-16.32/-15.77	-16.18/-14.8	-13.04/-12.49	-12.14/-13.29	-14.77/-16.01	-18.24/-18.2	-18.62/-18.56	-18.86/-16.56	-18.98/-16.69	-11.06/-9.84	-9.5/-9.61	-10.08/-7.72	-6.67/-8.52	-10.22/-12.95	-13.93/-12.64	-18.6/-17.07	-9.75/-8.38	-11.17/-13.42	-10.87/-10.53	-11.11/-13.59
Θ(157.5°)	-17.81/-18.01	-18.45/-18.74	-15.14/-11.76	-11.45/-12.96	-15/-17.14	-18.69/-17.97	-17.91/-16.99	-16.59/-16.73	-18.14/-16.42	-14.68/-16	-17.87/-19.13	-18.73/-16.53	-15.1/-13.63	-12.73/-11.85	-10.74/-9.56	-9.1/-8.8	-8.99/-9.59	-10.16/-11.79	-14.1/-14.67	-16.88/-18.87	-15.4/-10.46	-9.31/-11.33	-15.15/-18.54	-18.21/-17.64
Θ(165°)	-17.88/-18	-17.41/-15.14	-13.22/-13.29	-15.71/-17.99	-18.16/-16.75	-15.67/-16.54	-17.13/-17.55	-16.52/-18.89	-17.45/-15.77	-15.2/-16.13	-18.71/-18.73	-15.25/-12.62	-10.91/-10.22	-10.5/-9.79	-9.46/-9	-8.49/-9.77	-7.67/-7.74	-8.87/-9.91	-11.39/-12.16	-13.44/-15.74	-6.24/-12.6	-9.84/-9.15	-10.55/-13.91	-18.1/-19.19
Θ(172.5°)	-16.65/-16.48	-15.98/-16.76	-18.67/-17.6	-18.77/-19.27	-16.11/-14.46	-13.55/-13.18	-12.67/-12.42	-12.54/-13.56	-14.55/-14.88	-15.82/-17.58	-18.85/-17.59	-18.38/-18.49	-17.49/-18.55	-18.71/-18.95	-17.51/-15.33	-13.67/-12.26	-11.85/-11.92	-12.77/-13.5	-14.18/-13.62	-13.46/-14.53	-16.57/-18.88	-18.83/-18.17	-18.79/-17.2	-15.95/-15.86
Θ(180°)	-18.82/-18.98	-18.24/-17.53	-16.23/-14.04	-13.45/-12.69	-12.32/-11.68	-12.43/-13.71	-14.67/-15.69	-17.54/-18.96	-18.59/-18.48	-17.69/-18.64	-17.63/-18.13	-19.13/-17.96	-18.47/-18.56	-19.4/-17.9	-16.49/-15.58	-14.86/-14.6	-14.13/-13.82	-13.39/-13.61	-13.4/-13.72	-13.55/-13.37	-14.04/-15.04	-17.76/-18.57	-18.66/-16.68	-18.23/-18.78
Freq(Hz)	5.60Pol	PhiAnt.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-3.11/-2.96	-2.77/-2.79	-2.63/-2.26	-2.78/-3.01	-3.5/-3.81	-4.18/-4.94	-5.6/-6.49	-7.35/-7.84	-7.34/-3.64	-5.51/-4.84	-4.32/-3.91	-3.48/-3.07	-2.6/-2.33	-2.15/-2.06	-2.19/-2.42	-2.92/-3.48	-3.9/-4.44	-4.53/-5.26	-5.59/-5.81	-5.92/-5.43	-4.54/-3.78	-3.4/-3.03	-2.74/-2.65	-3.38/-3.36
Θ(7.5°)	-2.15/-2.27	-1.91/-1.74	-1.82/-2.24	-2.79/-3.28	-4.14/-6.89	-4.95/-5.34	-5.38/-5.24	-5.09/-4.86	-4.41/-3.89	-3.43/-3.12	-2.87/-2.72	-2.73/-2.77	-2.84/-2.86	-2.77/-2.72	-2.54/-2.58	-2.79/-3.07	-3.57/-4.35	-5.21/-6.12	-7.28/-8.23	-9.4/-9.4	-8.39/-7.14	-6.29/-5.28	-4.02/-3.17	-3.12/-2.4
Θ(15°)	-1.68/-1.42	-1.28/-1.34	-1.4/-2.14	-3.04/-3.81	-5.02/-6.39	-7.48/-8.51	-9.2/-8.34	-6.95/-5.59	-4.27/-3.16	-2.11/-1.39	-1.09/-1.11	-1.48/-2.12	-2.9/-3.6	-4.13/-4.11	-3.54/-3.01	-2.66/-2.74	-3.14/-3.88	-4.9/-6.58	-8.38/-10.77	-13.89/-14.43	-10.88/-7.43	-5.15/-3.56	-2.07/-1.17	-1.58/-1.54
Θ(22.5°)	-0.89/-1.57	-2.4/-2.69	-2.56/-2.83	-3.11/-3.73	-4.82/-5.96	-7.56/-9.73	-10.99/-10.31	-8.47/-6.11	-3.94/-2.2	-0.590/63	1.411/-67	1.460/-97	-0.43/-0.37	-1.51/-2.87	-4.02/-4.46	-4.28/-4.07	-4.14/-4.87	-6.23/-9.13	-13.22/-16.42	-14.47/-11.68	-8.66/-5.97	-3.86/-2.46	-1.050/-1	0.02/-0.63
Θ(30°)	-3.96/-4.68	-5.89/-6.49	-5.46/-4.31	-4.23/-4.54	-4.98/-5.63	-7.01/-8.39	-8.79/-8.23	-6.85/-4.81	-2.81/-1.29	-0.130/66	8.32/-22	2272.36	2.191/-45	0.12/-1.55	-3.39/-4.83	-5.51/-5.85	-6.86/-7.94	-12.62/-18.92	-17.22/-14.82	-10.68/-7.72	-6.25/-5.03	-3.69/-3.08	-2.87/-2.42	-0.29/-2.61
Θ(37.5°)	-3.47/-4.35	-5.7/-6.32	-5.79/-4.93	-4.38/-4.39	-5.08/-6.51	-8.99/-11.04	-11.84/-10.51	-7.29/-4.54	-2.2/-0.93	-0.250/33	0.640/56	0.861/02	0.710/29	-0.25/-1.03	-2.09/-2.98	-4.03/-5.1	-6.32/-7.9	-9.71/-12.15	-11.64/-7.89	-5.68/-4.12	-2.89/-1.84	-1.13/-0.84	-0.93/-1.41	-2.59/-3.26
Θ(45°)	-3.25/-4.16	-5.91/-7.27	-7.15/-8.54	-4.74/-4.7	-5.68/-7.39	-9.71/-15.8	-11.44/-9.64	-6.99/-4.43	-2.04/-0.76	-0.510/74	-1.34/-1.63	-1.11/-1.2	-1.92/-1.28	-2.27/-2.81	-3.28/-4.15	-5.31/-5.81	-6.17/-5.2	-10.58/-11.55	-7.93/-5.32	-3.86/-3.04	-2.3/-1.63	-1.11/-1.09	-1.43/-1.69	-2.81/-3.76
Θ(52.5°)	-1.97/-3.59	-6.74/-8.34	-8.12/-7.52	-7.28/-8.24	-11.15/-16.04	-18.52/-17.73	-15.75/-12.37	-5.76/-4.08	-1.7/-0.82	-0.79/-1.17	-1.51/-1.16	-0.34/-0.25	-0.65/-0.39	-0.87/-2.23	-3.25/-3.58	-4.58/-6.24	-9.13/-11.33	-12.16/-10.85	-7.67/-4.88	-3.25/-2.32	-1.27/-0.14	0.921/46	0.910/28	-0.41/-8.88
Θ(60°)	-2.21/-1.43	-2.28/-4.01	-6.04/-7.59	-7.43/-8.07	-10.56/-16.23	-18.11/-19.25	-16.57/-13.36	-9.28/-6.45	-4.52/-3.26	-2.04/-0.95	0.110/74	1.381/11	0.741/09	0.640/82	-3.48/-7.16	-7.29/-5.92	-7.15/-9.62	-11.19/-12.34	-9.43/-6.2	-4.73/-3.19	-1.89/-0.96	-0.440/34	0.09/-0.95	-1.82/-2.53
Θ(67.5°)	-2.06/-2.06	-2.96/-4.64	-4.74/-4.66	-4.04/-4.59	-6.39/-9.73	-16.79/-18.56	-14.03/-10.78	-10.22/-11.11	-7.22/-3.55	-1.48/-0.7	-0.090	0.550/65	-0.02/-0.37	-0.36/-1.19	-3.98/-4.06	-1.51/-6.62	-5.5/-6.71	-10.03/-13.04	-10.54/-8.23	-5.94/-4.38	-1.64/-0.07	0.530/9	0.12/-1.22	-2.68/-2.92
Θ(75°)	0.08/-0.68	-2.89/-3.57	-2.82/-2.7	-3.49/-5.64	-7.21/-10.08	-17.1/-16.43	-10.43/-10.9	-18.62/-16.53	-9.29/-6.48	-5.04/-5.65	-4.32/-2.49	-0.70/-31	-0.44/-0.57	-1.13/-1.87	-3.05/-5.16	-7.8/-8.32	-6.84/-5.06	-4.59/-6.44	-6.11/-6.72	-5.25/-3.32	-1.190/57	0.430/24	-0.24/-0.4	0.38/-0.27
Θ(82.5°)	-1.42/-1.29	-2.6/-2.3	-3.32/-5.1	-5.72/-5.4	-5.15/-8.02	-18.91/-13.65	-9.95/-11.89	-7.16/-12.63	-10.45/-10.37	-9.25/-9.92	-1.93/-0.74	0.660/62	-0.41/-0.43	-3.28/-4.12	-3.68/-5	-8.66/-6.78	-4.43/-3.97	-4.42/-7.36	-7.59/-8.03	-6.53/-3	-0.960/55	0.360/-39	-0.930/08	1.02/-0.44
Θ(90°)	-0.85/-0.57	-1.55/-0.82	-1.61/-2.57	-2.07/-2.1	-2.5/-3.62	-17.64/-17.25	-12.2/-12.33	-14.17/-12.63	-15.46/-18.41	-8/-5.59	-3.01/-3.07	-2.07/-3.08	-2.44/-1.99	-4.6/-5.4	-4.35/-3.2	-4.13/-4.59	-6.39/-7.28	-6.97/-9.88	-8.08/-10.34	-4.57/-1.95	-1.080/14	-0.3/-0.05	-0.261/03	1.80/-45
Θ(97.5°)	-2.54/-1.97	-2.1/-45	-2.91/-6.31	-7.43/-7	-6.58/-8.59	-12.71/-15.89	-18.18/-17.86	-15.15/-17.48	-17.95/-12.25	-7.64/-5.54	-3.54/-5.78	-5.53/-7.88	-5.19/-4.15	-7.06/-10	-10.16/-6.31	-4.49/-3.65	-5.72/-8.14	-10.83/-13.86	-11.22/-11.67	-4.79/-1.91	-1.081/66	-1.71/-1.37	-0.47/-0.08	0.6/-1.09
Θ(105°)	-1.71/-1.04	-0.96/-1.48	-3.29/-6.54	-7.36/-7.68	-8/-69	-13.63/-17.02	-17.57/-16.02	-10.41/-8.69	-7.92/-8.12	-7.92/-19	-5.31/-6.26	-5.56/-9.68	-7.53/-6.21	-8.45/-10.17	-9.94/-10.5	-10.54/-8.22	-8.46/-9.18	-16.31/-17.01	-17.05/-19.76	-15.64/-16.8	-3.19/-2.27	-1.350/76	0.64/-1.53	
Θ(112.5°)	-1.73/-1.04	-0.97/-2.3	-4.92/-7.29	-7.18/-7.2	-9.23/-10.31	-11.22/-15.3	-18.1/-18.94	-11.6/-9.67	-9.54/-10.44	-13.22/-11.4	-9.85/-15.22	-12.67/-14.98	-15.9/-18.84	-10.04/-10.61	-8.74/-7.58	-9.41/-11.39	-17.69/-16.33	-18.37/-12.6	-19.1/-18.66	-13.35/-8.72	-3.7/-5.56	-4.54/-6.02	-4.1/-1.91	-2.59/-2.87
Θ(120°)	-3.25/-2.65	-3.64/-4.35	-5.77/-1.19	-10.18/-14.14	-14.85/-12.24	-10.23/-10.78	-15.19/-19.15	-16.3/-17.7	-9.52/-10.13	-12.9/-16.69	-19.38/-17.91	-17.61/-18.51	-14.54/-14.4	-11.33/-8.28	-5.09/-5.33	-6.52/-10.91	-15.12/-17.95	-17.66/-15.27	-17.33/-16.16	-11.54/-6.58	-2.86/-1.81	-1.19/-2.06	-1.39/-0.73	-0.31/-2.98
Θ(127.5°)	-1.34/-1.42	-2.61/-3.56	-5.56/-8.15	-10.01/-13.09	-13.88/-12.32	-13.34/-14.95	-14.87/-12.88	-10.58/-9.2	-10.2/-12.69	-15.23/-18.18	-18.11/-17.76	-17.87/-15	-13.6/-8.74	-5.59/-8.53	-19.05/-11.73	-12.39/-12.85	-18.61/-1							



Radiated Composite Gain

Appendix A

Θ (135°)	-18.05/-17.9	-15.15/-11.96	-10.67/-8.67	-7.3/-8.44	-9.94/-13.43	-18.9/-18.48	-19.01/-18.02	-18.24/-19.03	-19.6/-19.21	-18.11/-18.26	-18.14/-17.27	-18.75/-11.37	-11.66/-18.52	-10.05/-13.01	-14.76/-19.11	-7.94/-7.37	-13.6/-17.88	-5.41/-4.97	-16.4/-18.19	-5.72/-10.78	-7.46/-7.8	-18.79/-15.75	-18.26/-16.19	-18.53/-19.04
Θ (142.5°)	-18.72/-15.77	-16.14/-17.17	-13.71/-14.66	-13.53/-13.36	-18.56/-18.72	-14.7/-16.3	-18.48/-18.08	-16.77/-15.17	-17.75/-18.55	-18.55/-18.84	-14.13/-14.05	-15.95/-10.63	-13.23/-17.99	-15.51/-11.45	-18.99/-7.78	-5.67/-9.7	-4.73/-9.92	-14.31/-12.23	-17.98/-18.48	-8.52/-11.12	-14.31/-7.83	-16.7/-14.4	-14.04/-17.76	-18.49/-17.89
Θ (150°)	-19.3/-17.69	-11.32/-10.98	-16.06/-17.61	-17.51/-14.86	-11.44/-13.2	-15.71/-17.09	-17.88/-16.85	-15.59/-18.35	-18.8/-18.31	-18.84/-17.39	-17.68/-17.94	-18.66/-18.86	-15.55/-12.35	-11.69/-11.99	-11.05/-8.37	-8.51/-6.28	-5.08/-9.05	-15.91/-18.71	-14/-11.65	-10.6/-10.84	-16.88/-14.17	-15.48/-17.75	-18.99/-17.34	-18.49/-15.92
Θ (157.5°)	-18.39/-19.22	-18.84/-13.16	-10.58/-10.3	-10.64/-10.57	-11.65/-15.13	-18.2/-18.98	-18.16/-18.5	-19.09/-17.84	-18.92/-16.6	-15.28/-16.99	-18.63/-18.22	-17.86/-18.2	-16.67/-13.71	-11.29/-8.4	-5.98/-4.62	-4.64/-5.24	-6.82/-9.3	-11.84/-15.49	-18.7/-19.13	-13.42/-9.84	-9.39/-11.04	-15.1/-18.81	-18.29/-19.24	-18.53/-18.91
Θ (165°)	-18.32/-14.75	-12.66/-12.3	-11.67/-12.04	-13.58/-13.88	-14.47/-14.91	-16.96/-18.83	-18.15/-18.78	-17.94/-18.08	-19.09/-18.5	-18.41/-19.17	-17.47/-18.04	-18.02/-13.29	-10.52/-8.81	-7.94/-7.75	-8.35/-9.93	-12.71/-16.29	-18.7/-17.67	-18.34/-17.63	-18.1/-17.21	-18.66/-17.7	-12.54/-9.46	-9.06/-10.88	-13.71/-16.04	-18.22/-18.37
Θ (172.5°)	-14.29/-12.96	-14.5/-17.96	-18.67/-18	-19.04/-18.56	-19.02/-17.11	-18.73/-18.78	-18.34/-18.66	-18.25/-17.78	-17.73/-18.58	-18.4/-19.01	-17.12/-19.11	-18.18/-17.81	-18.33/-18.29	-18.03/-18.24	-18.69/-18.58	-18.9/-19.07	-18.8/-18.43	-17.02/-15.19	-14.31/-15.43	-19.03/-18.68	-15.98/-16.28	-18.16/-18.33	-18.25/-14.61	
Θ (180°)	-18.03/-18.85	-18.22/-18.55	-17.63/-18.45	-19.34/-18.37	-18.09/-18.9	-17.3/-14.63	-12.11/-11.19	-10.41/-10.17	-10.6/-11.4	-12.45/-13.75	-15.33/-17.89	-18.07/-18.22	-17.81/-18.19	-18.17/-18.78	-19.29/-18.29	-18.55/-17.41	-15.05/-13.14	-11.92/-11.45	-11.51/-12.31	-12.8/-13.36	-14.1/-16.01	-18.18/-18.3	-16.12/-15.99	-15.01/-15.44
Freq(Hz)	2.45GPol.	PhiAnt. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (7.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (15°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (22.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (30°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (37.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (45°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (52.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (60°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (67.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (75°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (82.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (90°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (97.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (105°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (112.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (120°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (127.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (135°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (142.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (150°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (157.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (165°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (172.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (180°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Freq(Hz)	2.45GPol.	ThetaAnt. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (7.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (15°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (22.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (30°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (37.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (45°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (52.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (60°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (67.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (75°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (82.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (90°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (97.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (105°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (112.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (120°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (127.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (135°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (142.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (150°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (157.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (165°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (172.5°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Θ (180°)	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	-Inf	
Freq(Hz)	5.2GPol.	PhiAnt. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-4.36/-5.1	-6.62/-7.27	-8.11/-8.79																					



Appendix A

Sporton International Inc. Hsinchu Laboratory



Θ (37.5°)	-8.39/-6.5	-5.09/-4.98	-7/-8.85	-10.88/-17.96	-17.73/-16.79	-17.79/-16.56	-11.6/-6.37	-2.140.44	1.56/-1.7	0.88/-0.85	-2.64/-3.46	-3.59/-4.26	-5.78/-8.19	-7.86/-7.4	-8.08/-9.75	-14.22/-18.74	-19.15/-19.15	-14.18/-11.59	-8.91/-7.12	-7.98/-10.16	-10.49/-7.32	-5.11/-4.81	-5.99/-6.95	-6.97/-6.9
Θ (45°)	-5.97/-5.5	-5.48/-5.21	-5.43/-5.11	-5.78/-8.45	-12.27/-16.17	-18.39/-18.78	-16.29/-9.36	-4.55/-2.05	-1.08/-0.97	-1.37/-1.34	-0.19/-1.17	1.59/-1.2	0.24/-1.53	-4.15/-7.35	-11.84/-12.36	-13.33/-11.97	-8.86/-7.37	-7.57/-8.11	-9.42/-10.93	-10.09/-8.76	-7.77/-7.26	-5.83/-4.91	-5.66/-8.18	-8.42/-5.76
Θ (52.5°)	-10.85/-12.18	-10.03/-8.29	-6.62/-5.97	-6.75/-8.33	-9.91/-14.53	-16.14/-13.87	-15.47/-15.36	-8.6/-4.86	-3.61/-4.42	-5.71/-4.72	-2.010.52	1.87/-1.45	0.77/-0.5	-2.92/-5.46	-7.91/-8.79	-9.9/-11.81	-11.62/-9.63	-8.98/-9.13	-8.3/-6.67	-6.91/-7.27	-5.42/-2.78	-2.32/-3.51	-5.25/-7.85	-10.46/-10.45
Θ (60°)	-7.9/-9.6	-13.29/-14.96	-16.96/-12.28	-8.03/-8.4	-11.62/-18.25	-17.81/-19.25	-17.73/-18.99	-14.43/-9.43	-7.47/-9.05	-9.41/-4.87	-1.23/-1.07	2.82/9.7	3.22/2.34	-0.01/-2.51	-6.19/-11	-18.67/-18.92	-17.87/-18.31	-17.95/-11.88	-10.38/-10.72	-10.01/-8.05	-6.25/-5.02	-3.69/-3.78	-7.08/-8.69	-6.41/-6.74
Θ (67.5°)	-19.34/-17.91	-18.74/-12.86	-9.62/-6.82	-7.02/-7.58	-9.45/-12.5	-19.08/-16.13	-19.46/-19.39	-12.02/-8.88	-5.5/-4.59	-6.2/-6.82	-6.38/-4.21	-3.07/-1.64	-1.5/-2.37	-3.4/-3.36	-3.12/-4.46	-6.4/-7.67	-6.89/-10.53	-18.17/-13.94	-9.82/-12.38	-12.24/-18.27	-15.9/-10.38	-6.97/-6.08	-5.47/-7.71	-11.6/-15.82
Θ (75°)	-11.9/-14.45	-18.08/-14.92	-14.42/-11.05	-9.77/-7.89	-9.2/-13.98	-18.41/-17.12	-13.87/-15.82	-10.88/-6.08	-5.56/-5.83	-7.2/-7.81	-7.55/-5.97	-4.35/-2.41	-0.80/0.8	0.260.34	-1.26/-4.89	-6.03/-6.01	-3.42/-3.34	-6.09/-11.92	-16.58/-15.28	-13.76/-14.95	-11.36/-10.84	-10.75/-11.17	-18.34/-16.39	-11.41/-11.01
Θ (82.5°)	-16.14/-17.75	-15.78/-17.35	-13.94/-8.9	-5.85/-6.42	-10.34/-14.38	-17.52/-18.95	-19.01/-18.71	-12.48/-7.48	-7.27/-11.12	-18.06/-13.87	-12/-7.35	-3.19/-1.03	0.78/-1.17	1.41/3.4	-0.03/-2.76	-5.89/-7.52	-6.3/-6.19	-6.72/-11.08	-11.05/-7.25	-7.68/-11.32	-13.32/-16.88	-17.93/-14.63	-11.57/-12.43	-17.92/-18.66
Θ (90°)	-11.25/-7.74	-10.34/-10.77	-9.76/-7.01	-5.64/-5.84	-10.51/-16	-13.35/-14.5	-19.12/-17.58	-13.56/-5.26	-3.23/-2.56	-3.46/-7.68	-11.27/-9.97	-5.7/-4.01	-1.92/-1.41	-1.42/-1.53	-3.23/-7.14	-9.51/-10.13	-6.03/-6.29	-9.28/-9.24	-11.71/-17.69	-15.93/-19.11	-19.08/-16.2	-14.34/-18.03	-12.2/-17.95	-14.36/-11.35
Θ (97.5°)	-19.41/-18.3	-16.91/-13.7	-7.79/-7.69	-11.24/-12.03	-12.77/-18.42	-18.53/-17.86	-17.1/-9.48	-5.84/-4.31	-3.15/-1.53	-0.03/-1.08	-2.88/-5.61	-5.11/-3.97	-2.17/-2.29	-2.04/-3.31	-2.93/-3.24	-4.31/-2.07	-1.25/-2.29	-6.67/-12.57	-14.04/-7.61	-14.25/-19.38	-16.69/-17.94	-15.03/-11	-18.18/-18.94	-13.62/-16.98
Θ (105°)	-10.53/-9.06	-10.4/-8.24	-8.6/-9.93	-10.56/-10.26	-11.92/-15.11	-12.1/-12.31	-11.26/-6.28	-2.13/-1.45	-5.01/-6.49	-3.05/-4.0	0.26/-0.98	-2.74/-2.85	-2.29/-1.21	-0.520.01	0.61/-3.16	-7.8/-7.03	-3.47/-1.46	-2.79/-4.57	-6.52/-4.94	-7.77/-12.17	-15.19/-12.56	-10.58/-10.61	-18.46/-19.07	-17.48/-15.33
Θ (112.5°)	-16.44/-13.58	-18.98/-14.99	-9.74/-8.58	-10.53/-18.35	-18.87/-13.5	-10.17/-10.74	-13.7/-12.11	-8.12/-5.94	-6.21/-6.9	-8.08/-7.1	-4.38/-2.85	-0.660.52	1.34/-1.34	1.26/-0.25	-4.82/-10.73	-18.74/-11.63	-10/-9.74	-12.72/-14.95	-19.13/-14.91	-14.2/-19.24	-14.31/-18.47	-18.54/-10.63	-9.96/-18.8	-18.57/-18.61
Θ (120°)	-6.99/-8.36	-9.14/-18.32	-18.34/-19.25	-18.25/-11.35	-7.74/-8	-13.92/-13.27	-10.23/-11.03	-12.93/-14.33	-9.24/-5.05	-4.6/-2.71	-2.28/-0.48	0.010.11	-0.04/-2.57	-3.28/-11.75	-4.33/-5.62	-15.59/-9.83	-5.82/-7.57	-8.26/-17.19	-17.75/-13.29	-18.63/-17.13	-12.98/-8.53	-8.42/-14.8	-17.81/-17.23	-19.67/-7.08
Θ (127.5°)	-18.74/-17.57	-19.02/-18.51	-14.33/-13.23	-15.15/-11.74	-8.4/-10.42	-9.43/-8.31	-7.38/-7.86	-11.36/-18.32	-10.1/-5.21	-0.680.4	1.170.68	-0.72/-0.48	-2.89/-0.29	-1.86/-2.23	-2.9/-5.29	-18.69/-10.76	-4.67/-4.32	-2.55/-6.99	-10.21/-12.73	-11.27/-9.11	-19.13/-17.73	-5.11/-4.02	-4.35/-4.29	-7.36/-9.84
Θ (135°)	-8.01/-13.36	-15.26/-14.35	-12.21/-13.47	-13.74/-16.02	-18.77/-17.81	-10.08/-6.43	-4.44/-4.41	-5.57/-5.41	-3.52/-3.33	-5.53/-5	-2.58/-2.73	-2.15/-1.83	-2.39/-1.26	-2.43/-6.01	-5.78/-13.2	-7.96/-7.93	-4.65/-4.1	-1.84/-4.94	-9.66/-10.92	-16.18/-5.35	-9.79/-18.11	-18.5/-15.99	-14.25/-10.26	-4.82/-5.29
Θ (142.5°)	-16.71/-8.46	-5.18/-4.11	-4.97/-7.26	-10.52/-11.96	-11.94/-12.52	-11.69/-10.93	-9.87/-7.82	-5.57/-3.53	-2.75/-3.41	-3.45/-2.01	-1.12/-0.82	-0.45/-2.08	-3.78/-3.88	-5.31/-10.04	-14.02/-11.07	-8.97/-7.91	-6.72/-4.81	-3.18/-5.41	-9.49/-12.16	-17.75/-13.29	-18.63/-17.13	-12.98/-8.53	-8.42/-14.8	-17.81/-17.23
Θ (150°)	-9.83/-13.63	-17/-18.53	-18.08/-18.22	-17.12/-9.98	-6.96/-7.09	-9.06/-10	-8.82/-7.32	-6.96/-8	-9.68/-11.5	-12/-11.99	-11.91/-12.16	-16.61/-18.9	-11.37/-9.73	-6.8/-5.04	-6.26/-9.72	-10.92/-10.69	-10.73/-9.4	-7.62/-8.2	-12.27/-17.38	-14.37/-7.77	-6.01/-7.33	-9.52/-11.74	-16.64/-17.6	-13.65/-8.64
Θ (157.5°)	-0.08/-9.09	-9.66/-11.86	-13.15/-12.14	-12.34/-10.8	-9.76/-11.2	-17.59/-17.79	-13.3/-9.63	-7.33/-6.24	-5.44/-4.61	-3.43/-2.2	-0.940.2	1.06/-1.41	1.25/-1.2	1.35/-1.66	1.95/-1.74	0.84/-0.41	-1.12/-1.78	-3.11/-5.72	-9.39/-14.27	-14.32/-8.54	-6.28/-5.95	-6.77/-8.49	-11.83/-15.67	-12.33/-9.51
Θ (165°)	-5.75/-5.28	-5.37/-6.24	-7.65/-9.57	-12.42/-16.16	-18.89/-17.71	-15.16/-12.54	-10.6/-10.28	-10.34/-10.51	-9.67/-7.76	-5.44/-3.24	-1.59/-0.36	0.63/-1.3	1.88/-2.28	2.99/-2.75	2.57/-2	1.30/-77	0.22/-0.96	-3.28/-6.76	-12.3/-18.43	-13.21/-8.91	-7.77/-8.27	-11.72/-18.32	-18.11/-11.66	-8.45/-6.73
Θ (172.5°)	-9.44/-9.83	-10.03/-10.32	-9.77/-8.52	-7.88/-7.61	-7.84/-8.8	-10.6/-13	-16.4/-17.78	-18.78/-16.68	-11.31/-7.83	-5.19/-3.08	-1.47/-0.12	0.94/-1.74	2.24/-3.28	2.24/-1.92	1.54/-1.15	0.4/-0.76	-2.67/-5.48	-9.65/-16.06	-17.8/-17.23	-12.05/-10.89	-11.12/-12.25	-12.61/-10.22	-8.96/-8.67	-9.21/-9.41
Θ (180°)	-16.29/-14.17	-11.78/-11.21	-11.42/-11.09	-10.47/-9.97	-9.89/-10.86	-11.96/-13.64	-16.6/-17.71	-18.23/-17.37	-12.59/-9.61	-7.12/-5.51	-4.26/-3.38	-2.83/-2.61	-2.72/-3.31	-4.27/-5.58	-7.38/-9.32	-11.26/-13.01	-14.92/-16.17	-16.69/-16.93	-16.78/-17.07	-19.2/-18.18	-18.52/-17.5	-17.86/-18.2	-18.83/-18.96	-18.26/-16.89
Freq[Hz]	5.785GPol	Theta/Ant. 4	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-9.45/-9.6	-8.71/-8.15	-7.36/-7.16	-6.78/-7.03	-7.2/-7.58	-7.82/-8.08	-8.42/-8.65	-8.15/-8.31	-8.93/-9.84	-10.43/-10.51	-10.78/-11.27	-10.76/-10.42	-9.72/-9.06	-8.9/-8.54	-8.6/-8.13	-8.09/-7.71	-7.19/-6.39	-5.73/-5.09	-5.42/-5.97	-6.82/-6.63	-6.31/-6.99	-7.08/-6.73	-6.77/-7.04	-7.81/-8.77
Θ (7.5°)	-11.87/-13.64	-14.08/-12.65	-11.15/-10.75	-10.71/-11.39	-10.11/-8.91	-7.72/-6.88	-6.11/-5.79	-5.22/-5.3	-5.52/-5.79	-5.78/-6.01	-6.69/-7.07	-7.48/-7.9	-8.19/-8.13	-7.98/-7.69	-7.32/-6.74	-6.36/-5.7	-4.94/-4.29	-3.19/-2.55	-2.57/-3.51	-4.33/-4.97	-5.98/-7.15	-7.93/-8.4	-8.86/-9.69	-9.14/-9.92
Θ (15°)	-6.42/-7.77	-9.69/-11.5	-10.9/-11.86	-10.84/-10.68	-8.91/-7.69	-6.75/-5.86	-4.64/-3.33	-2.32/-2.28	-2.45/-2.96	-3.76/-4.93	-6.23/-7.58	-8.57/-9.43	-9.67/-9.63	-9.22/-8.97	-8.49/-8.59	-8.28/-7.61	-6.59/-5.55	-4.45/-3.98	-4.23/-4.3	-4.4/-4.42	-5.17/-6.52	-7.45/-7.62	-7.09/-7.11	-5/-5.21
Θ (22.5°)	-5.84/-5.54	-5.41/-6.59	-7.09/-7.58	-8.9/-11.88	-11.67/-9.78	-6.8/-4.01	-2.19/-1.25	-0.92/-1.07	-1.61/-3.08	-5.63/-9.57	-14.39/-17.63	-17.28/-15.25	-13.18/-11.49	-10.66/-10.09	-8.87/-7.28	-5.66/-4.95	-5.24/-5.81	-5.62/-5.73	-6.64/-8.1	-8.64/-9.22	-9.26/-9.39	-11.08/-10.84	-9.34/-9.85	-7.65/-7.01
Θ (30°)	-9.9/-10.52	-10.32/-10.23	-9.14/-7.68	-7.35/-6.72	-5.09/-4.57	-3.6/-1.64	-0.130.44	0.2/-0.76	-2.39/-4.58	-8.72/-14.4	-14.5/-13.43	-15.61/-16.68	-15.61/-13.19	-12.21/-11.94	-9.33/-5.11	-2.89/-2.42	-2.63/-2.49	-1.85/-2.73	-5.34/-12.9	-18.36/-15.83	-17.22/-17.83	-16.01/-18.28	-16.11/-11.34	-9.63/-10.85
Θ (37.5°)	-18.02/-10.05	-9.89/-14.65	-18.51/-18.59	-10.56/-6.58	-4.2/-3.55	-2.45/-0.59	0.93/-1.62	1.41/-0.04	-2.32/-4.9	-8.34/-11.28	-9.61/-9.21	-10.37/-12.2	-12.29/-12.18	-12.94/-12.22	-9.48/-6.6	-5.94/-5.41	-4.59/-4.29	-4.84/-6.11	-8.3/-11.66	-17.77/-18.73	-12.62/-17.12	-18.58/-15.78	-14.18/-15	-18.86/-18.06
Θ (45°)	-13.24/-9.13	-7.6/-9.55	-9.39/-12.45	-18.72/-17.66	-9.77/-5.24	-2.51/-1.25	-0.69/-0.9	-1.34/-2.55	-4.98/-6.74	-7.52/-7.76	-8.76/-11.65	-19.12/-17.68	-9.97/-7.24	-5.81/-5.83	-6.5/-6.49	-7.66/-5.9	-4.72/-4.12	-4.26/-4.57	-6.1/-11.38	-11.39/-8.45	-12.66/-13.92	-15.25/-10.27	-8.69/-10.33	-17.34/-17.81
Θ (52.5°)	-9.38/-8.82	-11.05/-18.3	-18.82/-18.28	-15.14/-13.43	-8.77/-6.46	-4.8/-3.88	-2.91/-2.28	-2.23/-2.6	-3.7/-6.08	-7.77/-7.44	-7.82/-9.42	-13.03/-15.11	-10.05/-6.96	-4.99/-3.54	-3.11/-4.19	-9.08/-10.29	-6.43/-4.45	-2.6/-3.42	-6.25/-12.06	-17.47/-18.3	-12.23/-16.38	-18.55/-17.88	-17.24/-17.75	-17.89/-11.45
Θ (60°)	-8.47/-7.28	-6.74/-8.46	-13.49/-14.28	-18.08/-16.43	-11.66/-8.53	-6.07/-4.99	-4.75/-4.63	-4.95/-6.37	-5.59/-4.85	-4.62/-4.24	-4.56/-6.26	-9.29/-18.77	-14.77/-9.21	-5.07/-4.53	-4.95/-5.45	-7.71/-8.78	-7.91/-4.82	-3.87/-3.18	-3.27/-6.54	-15.97/-5.27	-6.98/-6.93	-7.83/-9.25	-11.02/-15.89	-18.25/-11
Θ (67.5°)	-11.39/-8.77	-8.64/-9.52	-10.8/-10.24	-10.18/-11.36	-12.04/-11.89	-9.22/-6.88	-3.87/-3.54	-3.47/-3.34	-3.17/-3.45	-5.39/-6.61	-6.02/-7.17	-8.51/-9.32	-13.55/-13.33	-12.45/-11.71	-12.44/-12.55	-11.09/-9.05	-7.22/-11.06	-18.94/-9.96	-7.49/-9.89	-10.91/-19.35	-14.51/-17.29	-11.75/-7.72	-6.38/-8.47	-11.29/-10.94
Θ (75°)	-5.78/-3.99	-5.63/-8.24	-11.19/-12.27	-10.11/-10.97	-11.11/-15.06	-17.01/-8.83	-4.81/-2.56	-2.11/-1.15	-1.19/-2.36	-3.23/-3.39	-3.03/-4.31	-6.56/-9.06	-12.78/-11.62	-18.32/-18.85	-18.85/-17.6	-16.44/-18.08	-15.02/-13.51	-12.01/-9.32	-6.16/-7.19	-13.18/-11.32	-11.73/-18.85	-15.35/-9.84	-17.89/-12.76	-13/-8.98
Θ (82.5°)	-12.59/-8.83	-7.64/-7.83	-9.27/-11.45	-8.46/-8.15	-7.03/-8.26	-6.93/-6.24	-6.9/-8.01	-4.62/-2.49	-0.94/-1.38	-1.65/-2.53	-5.94/-8.81	-10.1/-4.97	-4.64/-4.22	-12.13/-14.37	-18.1/-12.18	-15.43/-18.66	-8.7/-8.22	-11.1/-9.36	-8.88/-8.13	-5.45/-4.54	-7.86/-9.45	-13.71/-13.93	-11.16/-12.82	-10.



Appendix B

Freq(Hz)	2.45GPol.	TotalAnt.1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-5.65/-5.51	-5.29/-5.04	-4.93/-4.58	-4.81/-4.55	-4.37/-4.18	-4.15/-4.24	-4.33/-4.48	-4.71/-4.81	-4.84/-4.92	-5.09/-5.22	-5.19/-5.11	-5.15/-5.05	-4.83/-4.59	-4.41/-4.26	-4.19/-4.11	-4.20/-4.32	-4.54/-4.83	-5.37/-5.96	-6.41/-6.44	-6.31/-6.14	-5.88/-5.72	-5.55/-5.37	-5.27/-5.35	-5.53/-5.66
Θ(7.5°)	-4.12/-3.96	-3.69/-3.44	-3.32/-3.32	-3.21/-3.06	-3.03/-3.35	-3.63/-8.33	-3.97/-4.24	-4.49/-4.72	-5.02/-4.54	-5.93/-6.40	-6.86/-7.20	-7.58/-9.26	-8.03/-8.74	-7.49/-7.18	-7.03/-6.92	-6.92/-6.92	-6.96/-7.21	-7.65/-8.20	-8.47/-8.22	-7.67/-7.21	-6.57/-5.96	-5.37/-4.90	-4.60/-4.47	-4.43/-4.40
Θ(15°)	-3.89/-3.45	-2.89/-2.38	-2.10/-1.98	-1.86/-1.75	-2.05/-2.70	-3.27/-3.68	-4.02/-4.51	-5.13/-5.84	-6.61/-7.51	-8.57/-9.64	-10.55/-11.38	-12.03/-12.96	-11.52/-10.74	-10.16/-9.99	-9.92/-9.99	-9.98/-9.88	-9.85/-9.84	-10.21/-10.82	-11.47/-11.22	-10.69/-10.06	-9.14/-8.07	-7.07/-6.24	-5.56/-5.07	-4.70/-4.36
Θ(22.5°)	-4.25/-3.21	-2.21/-1.56	-1.23/-1.08	-1.02/-1.21	-1.80/-2.73	-3.58/-4.27	-4.93/-5.89	-7.20/-8.71	-10.30/-11.72	-13.29/-13.30	-13.94/-13.06	-12.31/-11.49	-11.14/-11.22	-11.45/-11.97	-12.35/-12.54	-12.81/-12.91	-12.76/-12.44	-12.51/-13.17	-13.90/-13.51	-12.20/-11.17	-10.55/-10.09	-9.35/-8.47	-7.62/-6.84	-6.01/-5.19
Θ(30°)	-4.95/-3.20	-1.85/-1.11	-0.70/-0.57	-0.57/-0.87	-1.57/-2.69	-3.84/-4.98	-6.49/-8.50	-10.92/-13.55	-14.33/-13.83	-11.96/-10.02	-8.13/-6.63	-5.60/-5.07	-4.88/-4.98	-5.42/-6.06	-6.93/-8.04	-9.46/-10.63	-12.08/-13.53	-13.47/-13.28	-12.72/-11.30	-9.75/-8.76	-8.28/-8.46	-9.13/-10.20	-10.65/-10.06	-8.68/-6.87
Θ(37.5°)	-5.41/-3.31	-1.94/-1.19	-0.83/-0.75	-0.86/-1.24	-1.97/-3.12	-4.43/-5.99	-8.26/-11.62	-16.11/-15.70	-13.57/-10.96	-8.82/-7.01	-5.31/-4.93	-3.02/-2.53	-2.37/-2.56	-2.39/-3.61	-4.52/-5.82	-7.47/-9.45	-11.13/-11.27	-10.21/-8.85	-7.57/-6.37	-5.42/-4.95	-5.03/-5.70	-7.05/-8.56	-9.73/-10.86	-9.92/-7.84
Θ(45°)	-6.44/-4.43	-2.92/-1.96	-1.44/-1.35	-1.56/-1.92	-2.54/-3.52	-4.71/-6.12	-9.78/-10.24	-11.91/-12.71	-14.22/-12.33	-10.25/-9.79	-5.84/-4.04	-2.73/-1.80	-1.29/-1.11	-1.16/-1.41	-1.97/-2.87	-4.16/-5.71	-7.28/-7.77	-7.21/-6.29	-5.31/-4.42	-3.92/-3.84	-4.09/-4.63	-5.62/-7.15	-8.77/-9.88	-9.79/-8.39
Θ(52.5°)	-7.25/-4.74	-2.70/-1.33	-0.62/-0.61	-1.00/-1.45	-1.96/-2.66	-3.44/-4.24	-5.12/-6.36	-8.40/-11.56	-15.14/-15.76	-13.60/-10.57	-6.79/-4.15	-2.69/-1.86	-1.56/-1.37	-1.23/-1.16	-1.27/-1.68	-2.35/-3.30	-4.49/-5.50	-6.06/-5.96	-5.37/-4.73	-4.62/-4.82	-5.01/-5.17	-5.60/-6.67	-8.74/-11.18	-11.13/-9.68
Θ(60°)	-6.30/-3.53	-1.310.03	0.570.37	-0.20/-0.71	-1.17/-1.81	-2.72/-3.73	-4.90/-6.39	-8.77/-11.49	-13.33/-13.65	-10.70/-7.97	-5.17/-2.75	-1.48/-1.06	-1.10/-1.22	-1.31/-1.27	-1.11/-1.90	-0.88/-1.18	-1.73/-2.40	-3.13/-3.50	-3.43/-3.20	-2.97/-2.90	-3.02/-3.23	-3.49/-4.08	-5.80/-8.27	-10.92/-9.57
Θ(67.5°)	-5.19/-3.15	-1.52/-0.60	-0.44/-0.86	-1.30/-1.55	-1.76/-2.24	-3.14/-4.25	-5.39/-6.31	-8.89/-7.53	-8.51/-8.95	-5.56/-1.93	-0.310.48	0.720.46	-0.27/-1.10	-0.53/-1.57	-1.52/-1.32	-1.05/-0.91	-0.99/-							



Θ(22.5°)	-7.55/-6.44	-6.31/-5.86	-5.68/-6.20	-6.23/-17.44	-6.67/-6.47	-6.57/-5.66	-5.32/-5.46	-6.00/-6.26	-6.39/-6.29	-6.47/-7.05	-7.81/-8.50	-8.41/-7.81	-6.69/-5.53	-5.45/-5.56	-5.65/-5.36	-4.81/-4.49	-4.67/-5.25	-6.15/-5.68	-5.24/-4.13	-3.59/-3.99	-4.56/-4.87	-5.81/-6.86	-7.33/-8.62	-8.42/-8.15
Θ(30°)	-4.35/-3.25	-3.61/-4.24	-5.23/-6.32	-6.74/-7.60	-7.04/-6.59	-5.80/-5.83	-6.28/-7.38	-7.76/-7.20	-7.12/-6.77	-8.70/-9.16	-8.40/-7.54	-7.23/-6.71	-6.18/-6.08	-6.75/-7.29	-7.20/-6.09	-5.12/-4.35	-4.94/-5.57	-5.72/-4.53	-4.15/-4.74	-4.04/-4.20	-3.53/-3.07	-3.46/-4.73	-7.08/-10.35	-9.75/-6.39
Θ(37.5°)	-4.59/-4.10	-3.99/-3.48	-3.88/-3.93	-3.77/-4.25	-4.94/-6.55	-6.02/-6.39	-7.15/-8.17	-8.94/-1.94	-7.32/-9.33	-12.10/-12.49	-12.10/-12.49	-11.80/-9.98	-7.74/-5.75	-6.60/-6.43	-6.73/-6.68	-6.28/-5.33	-5.16/-5.82	-6.35/-6.32	-6.37/-4.53	-2.48/-1.97	-1.87/-1.91	-2.01/-3.15	-5.05/-6.99	-7.22/-6.23
Θ(45°)	-4.15/-3.69	-2.75/-1.19	-0.91/-0.80	-1.38/-2.74	-3.73/-3.78	-4.03/-4.39	-4.34/-5.38	-7.94/-13.13	-15.54/-15.74	-14.11/-11.70	-11.92/-14.42	-12.44/-9.82	-8.85/-7.84	-8.20/-6.93	-8.24/-6.51	-5.57/-5.13	-5.75/-7.05	-6.25/-5.68	-6.10/-8.19	-7.39/-3.95	-1.61/-0.32	0.08/-0.65	-3.38/-5.59	-4.83/-3.62
Θ(52.5°)	-2.72/-0.66	0.78/-1.47	0.83/-0.27	-2.00/-3.43	-3.62/-4.10	-5.01/-5.78	-6.65/-8.17	-11.57/-14.70	-13.54/-9.62	-6.76/-5.35	-5.22/-6.21	-7.55/-7.73	-7.10/-7.39	-7.33/-6.22	-4.81/-6.07	-8.24/-7.64	-6.12/-5.99	-6.26/-7.92	-9.31/-8.84	-7.48/-4.79	-2.04/-1.11	-0.97/-1.32	-3.95/-4.11	-1.77/-3.82
Θ(60°)	-0.510/-1.1	1.28/-1.37	0.470/-2.3	-1.03/-2.35	-3.14/-4.67	-5.05/-4.74	-5.27/-7.36	-10.72/-13.81	-9.03/-5.75	-4.45/-4.89	-4.94/-4.93	-4.87/-6.05	-5.78/-4.85	-6.77/-7.22	-4.47/-4.22	-5.31/-5.69	-7.40/-6.04	-3.89/-3.82	-4.96/-7.29	-9.03/-6.00	-2.58/-1.64	-1.85/-1.09	-1.58/-2.00	-1.72/-1.35
Θ(67.5°)	1.130/-66	1.131/-12	0.921/-24	-0.41/-2.12	-2.76/-3.88	-4.84/-5.23	-4.94/-5.11	-9.81/-12.63	-8.41/-6.67	-6.90/-6.88	-8.62/-5.62	-3.23/-4.23	-2.71/-1.91	-3.54/-5.73	-8.24/-6.54	-4.31/-4.22	-6.49/-6.46	-4.24/-3.45	-4.23/-4.56	-6.72/-6.66	-2.23/-1.37	-2.64/-0.87	-0.18/-1.25	-1.190/-39
Θ(75°)	1.84/-1.58	1.70/-1.91	1.61/-1.51	0.47/-0.01	-0.24/-1.43	-2.74/-3.06	-3.93/-5.34	-5.95/-5.87	-4.94/-4.02	-3.98/-4.03	-5.55/-4.66	-2.56/-2.00	-0.970/-13	-0.31/-2.55	-6.16/-8.20	-4.91/-2.42	-3.47/-3.15	-1.98/-2.75	-3.35/-3.95	-6.39/-5.73	-1.960/-10	-1.64/-0.89	-0.67/-1.53	-0.441/-32
Θ(82.5°)	1.48/-1.27	1.76/-1.17	2.43/-0.8	2.050/-54	-0.91/-2.02	-4.03/-6.44	-8.78/-6.72	-6.39/-5.31	-5.24/-6.88	-6.50/-4.96	-4.18/-3.70	-1.59/-1.42	-1.13/-1.36	1.03/-1.84	-4.43/-4.88	-1.53/-2.32	-3.98/-1.96	-0.62/-0.52	-2.02/-3.28	-4.62/-3.81	-2.490/-30	-0.14/-0.34	-0.88/-1.42	0.802/-64
Θ(90°)	1.13/-0.63	2.23/-2.73	3.85/-3.30	0.12/-0.32	-1.23/-1.07	-3.12/-6.65	-8.88/-8.50	-6.21/-4.08	-4.40/-4.67	-6.72/-4.78	-3.97/-4.05	-2.09/-4.59	-1.940/-87	0.08/-1.88	-2.26/-1.67	0.470/-27	-0.45/-3.07	-1.14/-0.51	-1.71/-1.89	-7.57/-5.47	-2.650/-86	2.030/-85	-1.60/-2.65	0.73/-3.25
Θ(97.5°)	0.77/-1.19	2.53/-2.07	2.78/-2.44	0.730/-45	-2.53/-3.59	-8.01/-14.72	-14.71/-7.36	-4.48/-2.78	-4.10/-5.04	-7.64/-4.40	-1.45/-1.37	0.42/-3.52	0.562/-10	0.04/-1.98	-1.97/-0.21	-0.15/-1.73	0.44/-1.58	0.16/-0.72	-3.10/-2.28	-6.82/-5.93	-1.15/-0.29	-0.45/-0.88	-2.45/-2.61	0.432/-60
Θ(105°)	-0.63/-2.55	1.51/-2.20	2.52/-2.47	-2.47/-3.16	-3.46/-4.19	-6.60/-12.54	-11.36/-13.32	-7.41/-4.33	-6.65/-5.86	-9.08/-4.39	-4.59/-4.46	-0.72/-5.19	-1.622/-48	1.58/-1.63	-3.24/-2.35	-1.41/-0.76	-1.00/-2.94	0.27/-1.72	-4.75/-2.53	-8.74/-10.50	-4.41/-2.72	-2.40/-2.81	-3.08/-1.92	0.701/-93
Θ(112.5°)	-2.19/-3.77	1.100/-89	-0.04/-1.38	-4.36/-1.79	-1.82/-5.29	-9.55/-10.28	-9.82/-7.59	-6.43/-8.45	-12.91/-11.33	-9.31/-5.79	-7.58/-5.95	-3.96/-7.29	-3.39/-0.29	-0.63/-5.22	-4.16/-3.14	-0.08/-1.35	-2.61/-3.62	0.46/-1.53	-4.73/-4.69	-6.80/-10.62	-3.51/-1.58	-3.28/-3.35	-5.85/-3.47	0.73/-1.50
Θ(120°)	-2.54/-5.77	-2.51/-1.17	-2.09/-1.82	-2.40/-4.40	-6.76/-8.03	-7.18/-9.12	-11.24/-10.99	-10.67/-11.61	-12.67/-10.33	-7.84/-10.06	-10.71/-6.16	-2.30/-3.20	-2.140/-35	-0.34/-3.60	-4.79/-3.07	-1.51/-0.53	-1.26/-6.99	-4.56/-2.39	-5.50/-4.45	-6.31/-11.26	-12.08/-9.54	-5.12/-3.26	-4.29/-2.74	-0.13/-0.73
Θ(127.5°)	-2.31/-4.92	-3.01/-1.72	-2.48/-4.27	-5.89/-5.55	-4.03/-4.48	-6.22/-7.47	-7.73/-9.23	-12.42/-11.62	-7.11/-7.32	-8.24/-8.92	-9.31/-9.33	-4.70/-4.38	0.11/-1.13	-2.50/-7.31	-5.62/-3.66	-1.43/-1.90	-1.44/-3.21	-4.65/-1.04	-0.55/-3.73	-3.31/-4.23	-6.53/-3.81	-1.77/-4.31	-2.48/-3.76	-0.750/-35
Θ(135°)	-8.10/-8.26	-7.18/-6.18	-7.66/-8.58	-8.10/-5.68	-4.55/-5.35	-8.16/-12.30	-9.47/-8.17	-12.82/-7.75	-6.99/-5.89	-6.08/-10.56	-11.88/-7.89	-5.41/-6.24	-2.36/-1.18	-4.61/-9.71	-9.57/-3.27	-4.38/-4.66	-2.85/-7.74	-6.52/-1.74	0.97/-5.43	-4.82/-8.14	-4.99/-9.37	-4.88/-5.00	-11.74/-7.01	-7.37/-7.36
Θ(142.5°)	-11.41/-10.00	-7.95/-6.19	-6.28/-5.98	-5.80/-7.62	-11.19/-12.14	-8.90/-8.46	-8.49/-5.15	-9.78/-11.98	-11.10/-7.80	-13.30/-15.33	-8.74/-5.37	-7.11/-7.19	-4.53/-5.35	-6.35/-10.76	-7.52/-6.53	-6.87/-4.31	-6.94/-10.98	-9.94/-4.28	-2.62/-3.75	-6.09/-12.58	-6.26/-5.88	-11.03/-6.42	-5.88/-7.84	-5.81/-9.49
Θ(150°)	-3.64/-4.49	-6.45/-7.13	-6.48/-6.21	-6.85/-7.89	-7.19/-6.90	-7.30/-7.58	-7.07/-7.59	-7.25/-6.37	-8.34/-11.73	-10.67/-8.70	-8.60/-7.38	-7.26/-5.58	-2.41/-3.61	-4.24/-5.32	-6.02/-7.69	-9.91/-9.66	-10.17/-8.31	-6.08/-4.10	-3.62/-5.20	-7.50/-12.80	-10.07/-7.76	-6.64/-6.47	-5.26/-5.02	-5.59/-4.47
Θ(157.5°)	-5.88/-4.03	-3.08/-3.63	-4.14/-4.81	-6.09/-7.73	-9.92/-11.95	-11.72/-10.18	-10.09/-12.11	-12.57/-11.51	-8.85/-8.40	-9.40/-9.27	-10.80/-6.07	-8.32/-9.93	-11.39/-11.14	-8.66/-6.90	-6.11/-6.90	-8.82/-7.49	-6.76/-6.29	-6.49/-6.43	-5.39/-4.41	-4.41/-6.03	-8.98/-9.98	-6.78/-4.08	-3.25/-3.87	-5.67/-6.50
Θ(165°)	-4.87/-5.46	-4.09/-4.40	-5.22/-6.30	-7.55/-6.69	-9.76/-10.27	-11.87/-14.89	-15.52/-13.04	-10.07/-8.33	-8.07/-9.43	-10.31/-9.63	-8.05/-6.75	-6.42/-7.02	-8.38/-8.93	-8.49/-8.05	-7.78/-8.21	-8.12/-8.93	-8.59/-7.41	-6.09/-4.96	-4.66/-5.18	-5.29/-6.23	-8.73/-11.54	-11.86/-8.55	-7.10/-6.23	-5.99/-5.53
Θ(172.5°)	-12.07/-12.56	-11.43/-9.84	-8.66/-9.91	-8.93/-9.73	-9.97/-10.59	-11.98/-13.72	-14.10/-13.04	-11.95/-11.90	-11.56/-12.02	-17.72/-13.91	-14.50/-15.10	-14.79/-13.60	-11.57/-10.12	-8.56/-7.65	-7.27/-7.40	-7.96/-8.16	-7.90/-7.42	-7.82/-8.31	-9.08/-9.62	-10.74/-12.00	-12.30/-10.87	-10.15/-10.57	-11.64/-12.84	
Θ(180°)	-9.24/-9.37	-9.59/-8.13	-7.53/-7.94	-8.72/-9.09	-8.35/-7.91	-7.44/-7.29	-6.74/-6.49	-6.23/-6.16	-6.34/-6.33	-6.33/-6.36	-6.18/-6.38	-6.68/-6.86	-6.76/-6.62	-6.20/-6.81	-5.47/-5.40	-5.40/-5.76	-5.98/-6.28	-6.56/-6.97	-6.82/-6.64	-7.20/-7.44	-7.84/-8.81	-10.22/-10.07	-9.64/-9.77	-9.81/-9.41
Freq(Hz)	2.45GPol.	TotalAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-6.67/-6.61	-6.29/-5.97	-5.84/-5.75	-5.63/-5.52	-5.34/-5.14	-4.99/-4.81	-4.60/-4.54	-4.62/-4.71	-4.74/-5.09	-5.59/-5.97	-6.14/-6.22	-6.24/-6.20	-6.03/-5.91	-6.75/-5.70	-5.83/-6.11	-6.41/-6.63	-6.98/-7.34	-7.53/-7.36	-6.99/-6.67	-6.18/-5.89	-5.68/-6.60	-5.52/-5.59	-5.81/-6.03	-6.25/-6.54
Θ(7.5°)	-7.50/-7.34	-7.07/-6.91	-7.14/-6.95	-6.87/-6.63	-6.70/-6.57	-6.38/-6.09	-5.82/-5.72	-5.67/-5.64	-5.67/-5.90	-6.28/-6.50	-6.54/-6.43	-6.21/-5.90	-5.48/-5.08	-4.74/-4.57	-4.47/-4.50	-5.25/-5.55	-5.75/-5.69	-5.53/-5.35	-5.27/-5.10	-4.86/-4.82	-5.12/-5.44	-5.94/-6.41	-6.80/-7.20	
Θ(15°)	-9.39/-9.22	-9.19/-9.39	-9.10/-8.68	-8.44/-8.27	-8.08/-7.91	-7.59/-7.19	-6.85/-6.72	-6.67/-6.59	-6.48/-4.67	-5.68/-6.67	-6.51/-6.23	-5.78/-5.33	-4.88/-4.39	-3.96/-3.67	-3.54/-3.55	-3.67/-3.82	-4.03/-4.24	-4.43/-4.49	-4.45/-4.40	-4.38/-4.42	-4.48/-4.52	-4.96/-5.67	-6.55/-7.40	-8.14/-8.83
Θ(22.5°)	-12.44/-12.58	-12.44/-11.71	-10.79/-10.09	-9.53/-9.02	-8.61/-8.10	-7.69/-7.06	-6.58/-6.26	-6.02/-5.86	-5.57/-5.84	-5.94/-5.94	-5.70/-5.26	-4.76/-4.18	-3.69/-3.23	-2.86/-2.62	-2.50/-2.51	-2.59/-2.70	-3.00/-3.28	-3.52/-3.71	-3.88/-4.05	-4.32/-4.66	-5.08/-5.41	-5.88/-6.85	-8.28/-9.82	-11.10/-11.94
Θ(30°)	-11.40/-10.52	-8.67/-9.05	-8.67/-8.65	-8.80/-8.64	-8.34/-7.86	-6.97/-6.04	-5.24/-4.62	-4.20/-3.91	-3.90/-4.01	-4.15/-4.27	-4.26/-4.07	-3.73/-3.22	-2.71/-2.22	-1.83/-1.59	-1.45/-1.42	-1.49/-1.68	-1.94/-2.32	-2.60/-2.88	-3.16/-3.57	-4.25/-5.15	-6.14/-6.95	-7.73/-8.79	-10.44/-12.19	-12.61/-12.42
Θ(37.5°)	-7.65/-6.95	-6.24/-5.74	-5.60/-5.86	-6.44/-6.92	-6.97/-6.47	-5.68/-4.77	-3.92/-3.28	-2.84/-2.56	-2.51/-2.56	-2.66/-2.91	-3.22/-3.43	-3.42/-3.08	-2.56/-2.20	-1.62/-1.31	-1.09/-1.01	-1.09/-1.22	-1.58/-1.90	-2.12/-2.31	-2.58/-3.11	-3.93/-5.00	-6.06/-6.99	-7.62/-8.09	-8.30/-8.29	-8.33/-8.42
Θ(45°)	-6.40/-6.10	-5.44/-4.73	-4.29/-4.39	-4.82/-5.14	-4.93/-4.37	-3.74/-3.10	-2.75/-2.21	-1.96/-1.87	-1.92/-1.98	-1.95/-2.04	-2.50/-3.26	-4.08/-4.34	-3.89/-3.17	-2.86/-1.93	-1.57/-1.45	-1.47/-1.58	-1.78/-1.89	-1.72/-1.45	-1.37/-1.59	-1.95/-2.36	-2.85/-3.44	-4.25/-4.99	-5.50/-5.88	-6.07/-6.31
Θ(52.5°)	-5.53/-5.67	-5.43/-4.80	-4.26/-4.25	-4.48/-4.26	-3.41/-2.45	-1.71/-1.19	-0.93/-0.84	-0.86/-0.98	-1.19/-1.26	-1.15/-1.13	-1.53/-2.49	-3.77/-4.59	-4.31/-3.52	-2.86/-2.53	-2.42/-2.39	-2.20/-1.90	-1.60/-1.10	-0.410/-07	0.190/-07	-0.110/-35	-0.75/-1.48	-2.70/-4.12	-5.22/-5.54	-5.50/-5.45
Θ(60°)	-4.30/-4.50	-4.64/-4.50	-4.36/-4.51	-4.68/-4.10	-2.84/-1.40	-0.450/-17	0.500/-67	0.730/-69	0.420/-21	0.260/-37	0.11/-0.81	-2.14/-3.04	-3.08/-2.76	-2.76/-3.19	-3.52/-3.22	-1.54/-2.21	0.740/-89	0.730/-41	0.01/-0.47	-1.06/-1.94	-3.24/-4.94	-6.36/-6.31	-5.37/-5.42	
Θ(67.5°)	-4.18/-4.46	-4.55/-4.36	-4.22/-4.50	-4.61/-3.82	-2.58/-1.37	-0.470/-11	0.490/-77	1.05/-122	1.18/-102	1.01/-108	0.70/-0.43	-1.87/-2.78	-3.05/-3.37	-4.24/-2.83	-1.55/-0.63	0.120/-46	0.390/-12	-0.26/-0.82	-1.54/-2.16	-2.75/-3.33	-3.86/-4.40	-5.00/-5.23	-4.84/-4.34	
Θ(75°)	-3.71/-4.27	-4.71/-4.48	-4.14/-4.64	-5.00/-3.75	-2.32/-1.39	-0.81/-0.40	-0.16/-0.01	0.250/-53	0.680/-55	0.480/-55	0.22/-0.83	-2.18/-3.20	-3.90/-4.63	-5.45/-4.81	-3.29/-1.96	-0.98/-0.24	0.070/-29	-0.82/-1.20	-1.74/-2.52	-3.55/-3.99	-4.10/-4.15	-4.08/-3.90	-3.69/-3.66	-3.78/-3.62
Θ(82.5°)	-3.2																							



Antenna Pattern

Appendix B

Θ(75°)	-3.64/-1.88	0.06/0.44	0.79/0.98	1.46/1.44	1.69/2.09	2.37/1.74	0.26/-1.53	-0.82/0.48	0.89/0.09	-0.87/-2.28	-2.65/-3.12	-3.05/-2.56	-1.84/-3.62	-4.68/-5.13	-4.48/-2.43	-3.50/-4.44	-5.69/-3.96	-3.18/-2.48	-4.98/-4.76	-6.35/-8.75	-7.84/-8.06	-7.29/-7.67	-10.42/-10.33	-12.93/-6.00	
Θ(82.5°)	-2.30/-1.96	0.41/0.61	1.65/2.03	2.17/1.96	2.12/2.09	2.40/-1.86	0.60/-1.20	-2.16/-0.89	-0.49/-0.85	-1.20/-1.15	-1.59/-1.95	-2.92/-3.17	-3.00/-4.71	-2.98/-3.00	-0.75/-0.44	-3.42/-1.73	-4.46/-1.47	0.46/-2.82	-4.31/-2.25	-1.99/-5.70	-6.56/-7.61	-8.89/-9.10	-11.66/-10.82	-10.60/-5.24	
Θ(90°)	-3.96/-3.99	-0.46/-0.45	0.87/1.15	1.87/1.79	1.60/1.50	1.85/-1.87	1.53/0.53	-0.20/-0.73	-1.46/-1.87	-1.97/-1.23	-1.28/-2.06	-1.59/-0.76	-1.78/-1.28	-1.93/-2.21	-0.66/-1.77	-3.02/-3.21	-1.26/-1.01	1.33/0.50	-2.00/-2.26	-2.40/-1.73	-2.34/-3.41	-6.68/-12.42	-11.32/-13.46	-12.19/-9.80	
Θ(97.5°)	-4.93/-1.89	-1.90/0.16	1.46/1.34	2.35/2.14	1.95/1.41	0.72/-0.00	-0.29/0.03	0.45/0.05	-0.88/-1.40	-0.96/0.93	1.05/2.14	0.53/1.21	-1.75/0.12	-2.95/-1.29	-1.08/-2.80	-6.04/-2.84	1.30/2.02	1.41/-1.71	-2.32/-1.17	-1.42/-2.56	-1.96/-4.95	-6.43/-10.81	-10.42/-12.66	-13.95/-0.04	
Θ(105°)	-5.34/-2.90	-2.62/-1.66	-1.74/-1.34	0.67/0.65	1.50/0.89	0.81/0.52	0.15/0.29	0.48/-0.01	-1.10/-1.67	-1.53/-0.59	-0.52/0.33	-0.80/-0.08	-1.90/-0.34	-1.76/-2.07	-0.00/-0.17	-2.56/-3.46	-1.08/0.45	-0.40/-0.51	-3.54/-2.02	-0.89/-3.45	-3.10/-2.39	-8.20/-13.53	-11.89/-15.02	-12.75/-6.86	
Θ(112.5°)	-7.18/-4.22	-6.04/-3.20	-2.10/-2.04	-0.51/-0.93	0.21/-0.45	-0.63/-0.92	-0.54/0.06	-0.50/-0.03	-0.54/-2.17	-2.50/-3.18	-1.83/-1.30	-0.38/0.06	-0.85/-0.39	-1.21/-0.88	-0.47/-1.23	-4.65/-5.80	-1.68/0.65	-0.65/-3.16	-11.02/-4.64	-3.59/-6.42	-6.09/-4.03	-11.44/-8.54	-9.12/-15.45	-10.07/-5.81	
Θ(120°)	-5.84/-5.07	-5.53/-5.06	-5.15/-3.16	-2.09/-0.91	0.09/-0.16	-1.13/-2.74	-4.99/-6.53	-4.62/-2.44	-1.86/-2.84	-4.90/-6.15	-4.18/-3.55	-1.08/-1.81	-0.71/-1.26	-0.39/-3.57	-0.15/-0.28	-3.68/-6.48	-3.10/-0.69	-4.04/-3.64	-9.40/-4.91	-2.20/-4.92	-8.20/-6.10	-8.55/-12.78	-12.65/-15.24	-8.53/-8.17	
Θ(127.5°)	-7.89/-5.73	-8.04/-7.94	-6.53/-4.86	-3.34/-2.23	-2.21/-2.27	-2.43/-2.64	-2.74/-3.44	-3.86/-3.11	-2.53/-2.51	-3.18/-3.09	-3.87/-3.23	-4.13/-2.22	-2.93/-0.14	0.26/-0.22	0.46/0.08	-7.29/-8.70	-2.98/-1.33	-1.17/-4.00	-8.76/-8.05	-4.43/-3.49	-2.28/-5.42	-5.78/-6.48	-9.52/-12.13	-9.89/-7.75	
Θ(135°)	-9.72/-6.47	-5.48/-5.30	-4.87/-4.06	-3.33/-2.66	-4.92/-5.97	-5.69/-4.44	-4.92/-5.97	-6.81/-3.09	-2.36/-2.41	-2.92/-4.36	-6.21/-7.13	-6.19/-3.26	-3.41/-1.52	-1.01/-2.25	-1.31/-1.39	-5.51/-5.52	-7.27/-5.13	-5.18/-5.36	-10.71/-9.35	-5.57/-5.36	-6.93/-7.26	-6.50/-4.01	-9.51/-11.28	-10.99/-9.90	
Θ(142.5°)	-6.51/-8.10	-6.12/-4.46	-3.50/-3.28	-3.52/-4.23	-3.04/-3.19	-4.47/-5.46	-6.67/-7.45	-6.74/-5.49	-4.77/-4.20	-3.38/-4.52	-5.61/-6.86	-6.78/-5.66	-7.09/-5.33	-5.14/-5.69	-4.12/-3.64	-2.72/-5.66	-4.69/-4.98	-10.84/-10.42	-15.31/-13.22	-9.23/-7.30	-9.84/-12.12	-8.03/-5.85	-9.70/-13.20	-11.75/-5.55	
Θ(150°)	-6.97/-10.00	-11.99/-8.98	-6.56/-4.38	-2.75/-2.59	-3.20/-3.79	-5.08/-6.95	-9.04/-10.00	-9.19/-7.95	-7.01/-5.95	-5.19/-4.88	-5.04/-5.66	-6.41/-6.63	-5.80/-5.32	-5.90/-6.24	-6.38/-6.88	-7.92/-7.75	-7.16/-9.85	-13.35/-11.46	-13.97/-15.58	-13.09/-13.14	-14.85/-14.54	-14.63/-10.51	-12.37/-12.06	-10.56/-7.80	
Θ(157.5°)	-9.14/-10.35	-10.24/-8.09	-7.00/-6.05	-4.91/-4.34	-4.25/-4.40	-5.33/-7.43	-9.83/-10.91	-10.81/-9.59	-7.58/-6.06	-5.68/-5.84	-6.41/-6.99	-8.00/-8.29	-8.60/-8.91	-8.63/-7.32	-6.58/-6.27	-6.49/-7.58	-10.68/-13.14	-12.88/-10.76	-9.93/-9.63	-10.90/-11.91	-12.37/-11.75	-11.10/-12.21	-14.31/-14.50	-11.26/-9.58	
Θ(165°)	-13.76/-14.31	-13.31/-10.93	-10.39/-9.80	-9.02/-8.57	-9.22/-10.13	-10.93/-11.66	-12.23/-12.67	-11.65/-10.83	-9.73/-9.18	-8.41/-7.75	-7.29/-7.37	-7.79/-8.60	-8.71/-8.94	-9.24/-8.55	-9.87/-9.71	-9.07/-8.68	-9.28/-10.70	-13.05/-15.73	-14.66/-15.15	-14.54/-15.35	-14.71/-14.03	-14.01/-15.49	-15.56/-15.59	-12.87/-12.51	
Θ(172.5°)	-10.16/-10.12	-8.56/-9.11	-9.77/-10.55	-9.83/-9.54	-9.72/-10.14	-9.93/-9.99	-9.87/-10.00	-10.10/-9.99	-9.58/-9.75	-8.93/-10.01	-10.11/-9.97	-10.00/-9.99	-9.56/-9.50	-9.87/-10.44	-11.10/-11.21	-11.27/-11.94	-14.18/-16.08	-15.72/-14.84	-15.64/-14.26	-13.73/-13.05	-12.46/-12.18	-11.70/-11.26	-9.96/-9.44	-9.66/-10.32	
Θ(180°)	-11.98/-12.14	-11.41/-11.00	-11.09/-10.98	-10.21/-9.65	-9.70/-9.89	-10.34/-10.92	-10.86/-10.74	-10.40/-9.97	-9.45/-9.22	-9.02/-9.45	-9.63/-9.76	-10.01/-10.43	-11.09/-12.01	-12.06/-12.34	-12.59/-13.63	-14.69/-15.27	-15.15/-14.92	-14.90/-14.72	-15.15/-15.15	-14.98/-15.52	-14.03/-12.82	-11.44/-11.39	-11.99/-12.20	-12.29/-12.77	
Freq(Hz)	5.785GPol.	TotalAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)	
Θ(0°)	-10.74/-10.47	-10.55/-10.73	-10.71/-10.49	-10.30/-10.40	-10.23/-9.80	-9.82/-9.76	-9.59/-9.12	-9.35/-10.43	-11.22/-11.38	-10.11/-9.98	-8.95/-8.68	-9.00/-9.96	-10.11/-9.69	-9.13/-8.66	-9.02/-9.00	-9.00/-8.90	-9.36/-9.89	-10.03/-10.38	-10.47/-10.25	-10.47/-10.99	-10.68/-9.94	-9.23/-9.81	-9.23/-9.81	-9.23/-9.81	
Θ(7.5°)	-9.50/-9.50	-9.67/-9.11	-8.73/-8.75	-8.85/-9.07	-9.00/-8.49	-8.37/-8.77	-9.41/-9.76	-11.03/-11.80	-11.96/-11.05	-10.41/-10.39	-10.76/-11.35	-12.81/-12.94	-12.20/-11.75	-11.79/-11.93	-12.13/-11.67	-11.11/-10.83	-10.68/-10.47	-10.46/-10.60	-10.48/-10.49	-10.20/-10.43	-10.30/-10.31	-10.12/-9.99	-9.17/-8.26	-8.60/-9.38	
Θ(15°)	-9.41/-9.41	-9.42/-8.70	-8.33/-8.18	-7.58/-7.26	-6.62/-5.90	-5.75/-6.05	-6.64/-7.16	-9.06/-10.50	-12.90/-13.73	-13.26/-14.14	-14.42/-14.29	-14.72/-14.63	-15.18/-15.70	-15.41/-14.51	-14.02/-13.09	-12.07/-11.31	-10.22/-9.95	-9.54/-9.25	-9.05/-9.22	-9.38/-6.98	-9.98/-9.91	-9.82/-9.53	-9.08/-8.74	-8.97/-8.84	
Θ(22.5°)	-11.20/-10.75	-10.58/-10.12	-9.34/-7.54	-6.49/-6.29	-5.39/-4.35	-4.83/-4.15	-5.05/-6.58	-9.08/-9.19	-10.46/-12.29	-13.90/-14.38	-14.62/-13.48	-12.57/-12.06	-12.09/-11.99	-11.53/-10.91	-11.77/-11.60	-11.51/-10.20	-9.09/-9.06	-8.96/-8.99	-9.32/-9.44	-9.52/-10.63	-11.67/-12.38	-11.92/-11.68	-11.11/-11.18	-12.39/-11.95	
Θ(30°)	-9.79/-10.95	-12.56/-12.10	-10.08/-7.67	-6.04/-6.80	-5.14/-4.13	-3.90/-4.57	-5.75/-6.70	-7.53/-7.97	-8.51/-8.62	-8.77/-7.39	-7.14/-8.05	-9.49/-10.50	-11.00/-9.49	-8.15/-7.95	-8.91/-10.51	-10.27/-9.37	-9.02/-8.40	-7.27/-7.01	-8.60/-10.25	-12.24/-14.22	-15.22/-14.47	-14.30/-14.59	-13.30/-11.78	-10.79/-9.40	
Θ(37.5°)	-8.61/-6.75	-8.32/-8.44	-6.67/-6.06	-4.65/-4.09	-3.80/-2.58	-2.32/-6.69	-3.06/-3.75	-4.18/-4.28	-4.04/-3.89	-3.95/-4.23	-5.45/-7.01	-7.39/-8.78	-11.75/-12.14	-13.32/-13.46	-11.69/-10.70	-9.80/-9.92	-10.61/-9.28	-9.27/-11.05	-10.73/-9.21	-10.55/-14.05	-11.86/-10.35	-11.15/-12.04	-10.56/-12.74	-10.63/-10.14	
Θ(45°)	-8.83/-5.39	-4.59/-5.64	-6.53/-2.91	-1.91/-0.98	-0.89/-0.85	-0.82/-0.38	-0.74/-1.77	-2.85/-3.42	-3.51/-2.95	-2.13/-1.54	-1.79/-3.15	-4.37/-5.76	-7.37/-8.82	-9.77/-9.00	-8.98/-8.93	-10.16/-12.35	-10.22/-7.97	-8.05/-6.89	-8.32/-11.61	-14.14/-14.28	-15.30/-13.79	-8.85/-6.79	-7.23/-7.55	-6.57/-6.62	
Θ(52.5°)	-4.58/-4.63	-4.07/-4.19	-3.39/-1.95	-1.07/-0.23	0.15/0.28	0.11/0.27	0.42/0.30	-0.08/-0.12	-0.03/0.07	0.12/-0.17	-0.86/-2.14	-3.53/-5.17	-8.01/-9.89	-9.95/-8.70	-7.39/-6.70	-7.61/-9.30	-8.71/-8.08	-7.82/-6.62	-8.02/-8.01	-9.31/-11.01	-11.91/-10.89	-11.23/-9.22	-8.51/-6.47	-6.56/-5.22	
Θ(60°)	-5.21/-3.88	-2.89/-2.37	-2.06/-1.51	-0.01/-0.00	1.28/0.61	0.36/-0.06	0.14/-1.12	1.50/1.24	0.71/0.33	0.49/-0.01	-1.07/-2.44	-4.66/-7.21	-9.59/-9.97	-8.13/-5.58	-4.47/-4.38	-4.54/-6.07	-6.57/-7.12	-8.06/-6.65	-7.87/-9.16	-10.38/-10.28	-9.36/-6.97	-7.49/-7.17	-7.86/-6.59	-8.82/-7.54	
Θ(67.5°)	-4.79/-2.42	-1.91/-1.55	-1.44/-1.15	0.50/-1.12	1.67/1.62	1.42/1.15	1.00/0.83	1.32/1.68	1.25/0.79	0.04/-2.01	-4.24/-6.25	-8.68/-7.89	-6.15/-4.58	-4.88/-5.86	-6.97/-5.57	-5.86/-6.32	-4.73/-5.86	-5.39/-6.24	-6.76/-7.83	-8.33/-8.58	-10.17/-8.95	-7.20/-7.31	-6.31/-8.59	-9.90/-6.58	
Θ(75°)	-4.05/-1.77	-1.41/0.04	0.40/0.73	1.33/-1.42	2.06/1.67	1.37/1.45	1.33/-1.41	1.63/2.15	2.05/0.77	-0.55/-3.03	-5.37/-6.17	-5.16/-3.84	-2.66/-2.68	-3.51/-4.81	-4.54/-3.73	-4.86/-4.91	-5.24/-7.14	-2.55/-4.17	-5.68/-5.35	-5.42/-7.96	-8.65/-9.72	-8.74/-7.49	-8.88/-9.17	-8.82/-4.49	
Θ(82.5°)	-2.41/-0.82	-0.62/0.68	1.41/-1.89	2.38/2.38	2.49/-2.26	1.67/1.03	0.77/0.52	1.03/-1.53	0.95/-0.41	-1.66/-3.48	-5.13/-6.41	-4.90/-4.10	-2.13/-2.06	-2.42/-2.57	-1.45/-3.13	-2.80/-2.66	-2.40/-4.46	0.21/-1.64	-3.84/-2.90	-4.23/-7.22	-7.83/-8.78	-7.69/-7.77	-8.42/-10.28	-12.50/-3.87	
Θ(90°)	-3.77/-2.00	-0.39/0.64	0.46/-1.02	2.00/-1.99	2.09/-2.42	1.93/-1.38	0.10/-0.94	-0.72/-0.07	-0.74/-2.86	-3.83/-3.44	-3.14/-2.55	-2.51/-2.32	-1.96/-2.84	-3.26/-3.27	0.20/-0.03	-3.00/-2.46	-0.29/-1.49	1.61/-0.09	-1.91/-1.94	-2.37/-5.46	-5.64/-6.80	-6.56/-7.49	-9.40/-12.77	-11.33/-5.27	
Θ(97.5°)	-4.36/-1.24	-0.95/0.24	0.97/-1.35	1.28/-1.56	1.35/-1.45	0.50/0.11	0.38/0.54	1.17/-1.75	0.43/-0.98	-1.37/-0.37	-1.07/-0.31	-1.72/-0.27	-2.34/-0.05	-1.85/-1.89	-1.77/0.48	0.69/-1.51	-2.66/-4.35	-1.88/-3.50	-2.38/-3.50	-7.04/-12.00	-11.62/-12.34	-10.25/-11.62	-13.13/-6.27	-10.61/-5.22	
Θ(105°)	-4.06/-1.06	-1.63/-0.53	-0.07/-0.84	0.76/-1.15	0.92/-1.18	0.67/-0.76	-2.63/-2.56	0.15/-1.64	0.11/-2.04	-2.99/-1.50	-2.02/-0.12	-1.38/-1.13	-1.00/-0.93	-0.86/-0.07	0.82/-1.28	-1.88/-5.86	-1.22/0.63	0.43/-1.59	-3.42/-2.18	-2.27/-5.68	-2.52/-3.45	-10.51/-15.00	-10.40/-13.43	-11.50/-3.35	
Θ(112.5°)	-4.82/-2.73	-4.76/-3.33	-2.25/-2.66	-1.52/-1.44	-1.02/-0.79	-0.86/-0.39	-0.31/0.03	0.75/0.41	-1.19/-2.68	-3.86/-2.12	-1.86/-3.04	-1.02/-0.56	-1.34/-0.31	0.89/-1.56	0.77/0.20	-1.43/-1.30	-3.22/-6.69	-1.47/0.30	-1.42/-2.15	-8.65/-4.83	-3.82/-3.68	-3.56/-4.07	-10.21/-9.56	-8.56/-14.46	-10.49/-6.66
Θ(120°)	-4.13/-5.23	-4.50/-4.87	-2.64/-2.10	-1.02/-0.49	-0.11/-1.02	-2.28/-3.54	-2.64/-3.21	-1.58/-1.41	-2.18/-4.04	-5.20/-5.08	-3.24/-2.94	-1.31/-1.58	-1.27/-1.40	0.17/-0.57	0.58/-1.10	-2.23/-9.02	-2.71/0.03	-2.93/-3.25	-10.30/-5.69	-3.52/-5.38	-8.97/-6.02	-5.51/-10.29	-10.20/-13.92	-7.97/-8.34	
Θ(127.5°)	-7.12/-7.86	-																							



Antenna Pattern

Appendix B

Θ (120°)	-0.95/-1.48	-2.53/4.35	-5.78/6.99	-9.60/-11.57	-11.20/-9.53	-10.46/-11.64	-12.14/-10.86	-12.08/-13.19	-11.83/-10.52	-12.35/-13.19	-15.81/-15.51	-9.89/-6.96	-7.93/-7.74	-8.93/-7.23	-8.29/9.33	-7.93/-3.82	-5.26/-5.43	-8.20/-12.04	-14.43/-12.42	-5.77/-7.44	-5.15/-5.36	-3.50/-2.45	-0.55/0.38	-0.09/-0.48
Θ (127.5°)	-1.45/-1.54	-2.51/-3.71	-5.73/-7.02	-9.10/-11.72	-12.96/-13.75	-14.70/-11.68	-9.64/9.81	-10.94/-10.27	-10.22/-10.59	-12.33/-13.75	-13.41/-10.75	-11.86/-12.31	-8.54/-13.84	-9.15/-8.25	-13.58/-9.14	-8.47/-4.51	-9.14/-7.09	-10.49/-8.07	-15.27/-13.72	-3.15/-1.87	-5.79/-6.05	-8.25/-5.15	-3.76/0.34	0.86/-1.15
Θ (135°)	-4.35/-5.00	-7.72/-9.47	-10.12/-12.98	-13.15/-11.76	-13.26/-15.25	-14.68/-14.23	-14.81/-15.64	-15.27/-15.72	-12.89/-10.99	-9.81/-9.29	-6.80/-9.97	-9.49/-8.86	-12.73/-15.29	-15.35/-11.62	-10.81/-8.07	-5.05/-6.66	-11.80/-10.58	-12.93/-12.04	-12.33/-10.84	-5.60/-2.46	-3.97/-4.50	-6.16/-7.85	-3.49/-3.09	-2.69/-3.60
Θ (142.5°)	-4.64/-3.50	-8.28/-13.66	-14.76/-14.41	-12.88/-13.65	-14.83/-12.16	-10.69/-9.48	-8.95/-10.10	-13.00/-15.73	-15.04/-13.03	-10.11/-7.46	-6.93/-8.37	-6.84/-7.05	-10.29/-12.63	-14.57/-15.10	-10.63/-6.85	-8.71/-12.04	-7.13/-7.83	-11.98/-11.48	-15.51/-13.49	-9.66/-5.89	-7.20/-8.79	-5.47/-7.43	-6.60/-3.58	-3.11/-4.24
Θ (150°)	-8.29/-7.23	-7.93/-10.72	-13.50/-13.55	-13.41/-14.51	-14.36/-12.71	-11.53/-10.81	-10.42/-10.84	-11.18/-12.31	-13.45/-13.95	-15.50/-15.39	-12.17/-8.92	-8.05/-8.74	-6.58/-4.14	-4.12/-5.85	-7.34/-5.89	-9.54/-6.96	-6.10/-8.11	-9.58/-11.70	-12.71/-11.74	-14.21/-10.48	-7.02/-7.04	-9.41/-9.20	-7.52/-6.66	-5.92/-6.78
Θ (157.5°)	-12.51/-14.66	-15.54/-15.54	-13.10/-10.71	-13.15/-11.92	-13.41/-14.21	-13.00/-12.49	-13.71/-13.63	-13.01/-12.57	-12.97/-14.71	-14.92/-15.58	-15.73/-11.74	-9.31/-7.99	-7.23/-6.61	-6.31/-6.24	-6.34/-6.59	-7.64/-9.02	-6.65/-10.97	-12.97/-13.94	-14.61/-15.79	-12.59/-9.15	-8.00/-8.46	-8.38/-7.75	-7.63/-9.30	
Θ (165°)	-6.43/-8.05	-9.49/-9.66	-9.40/-10.02	-12.05/-14.82	-14.90/-14.50	-13.96/-14.16	-14.97/-14.85	-14.65/-13.58	-12.32/-11.55	-11.53/-11.96	-12.30/-11.21	-9.30/-7.33	-6.00/-5.32	-5.10/-5.40	-6.14/-6.95	-7.33/-7.37	-7.26/-7.40	-8.42/-9.38	-10.57/-11.30	-12.37/-14.05	-14.53/-11.19	-7.80/-6.32	-5.53/-5.11	-5.41/-5.97
Θ (172.5°)	-13.96/-14.42	-13.95/-13.81	-14.42/-13.36	-12.80/-12.93	-11.88/-11.52	-11.42/-11.77	-11.70/-11.29	-11.29/-11.73	-12.15/-12.34	-13.00/-14.38	-15.12/-14.87	-15.33/-15.43	-14.32/-15.52	-15.47/-14.79	-13.07/-11.82	-11.21/-10.86	-11.04/-10.97	-11.80/-12.31	-12.99/-12.61	-12.40/-12.89	-14.70/-15.62	-13.72/-12.57	-13.73/-14.14	-13.89/-14.07
Θ (180°)	-11.68/-11.76	-11.67/-11.37	-11.04/-10.42	-10.56/-10.86	-11.29/-10.74	-11.39/-12.36	-13.29/-14.04	-15.04/-16.20	-15.86/-15.41	-15.07/-15.06	-14.23/-14.17	-14.33/-13.75	-13.75/-13.91	-14.49/-14.02	-13.76/-13.93	-13.46/-13.00	-12.93/-12.57	-11.92/-12.08	-11.65/-11.97	-11.98/-12.92	-12.59/-13.17	-13.73/-12.77	-12.96/-12.26	-11.98/-11.74
Freq(Hz)	5.6GPol.	TotalAnt. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Ψ(7.5°)	Φ(15°)Ψ(22.5°)	Φ(30°)Ψ(37.5°)	Φ(45°)Ψ(52.5°)	Φ(60°)Ψ(67.5°)	Φ(75°)Ψ(82.5°)	Φ(90°)Ψ(97.5°)	Φ(105°)Ψ(112.5°)	Φ(120°)Ψ(127.5°)	Φ(135°)Ψ(142.5°)	Φ(150°)Ψ(157.5°)	Φ(165°)Ψ(172.5°)	Φ(180°)Ψ(187.5°)	Φ(195°)Ψ(202.5°)	Φ(210°)Ψ(217.5°)	Φ(225°)Ψ(232.5°)	Φ(240°)Ψ(247.5°)	Φ(255°)Ψ(262.5°)	Φ(270°)Ψ(277.5°)	Φ(285°)Ψ(292.5°)	Φ(300°)Ψ(307.5°)	Φ(315°)Ψ(322.5°)	Φ(330°)Ψ(337.5°)	Φ(345°)Ψ(352.5°)
Θ (0°)	-1.32/-1.29	-1.19/-1.08	-1.10/-1.04	-0.75/-0.68	-0.66/-0.36	-0.12/-0.34	-0.49/-0.76	-1.23/-1.59	-1.55/-1.26	-0.91/-0.78	-1.13/-1.29	-1.27/-1.29	-1.20/-1.12	-1.11/-1.04	-1.09/-1.14	-1.06/-0.98	-0.85/-0.75	-0.67/-0.61	-0.54/-0.46	-0.24/-0.07	-0.13/-0.23	-0.24/-0.50	-1.16/-1.35	
Θ (7.5°)	-1.26/-1.50	-1.30/-1.19	-1.16/-1.17	-1.19/-1.15	-1.11/-0.79	-0.52/-0.54	-0.39/-0.38	-0.59/-0.84	-0.90/-0.79	-0.56/-0.41	-0.30/-0.28	-0.41/-0.51	-0.62/-0.62	-0.58/-0.51	-0.30/-0.21	-0.23/-0.36	-0.47/-0.70	-0.75/-0.76	-0.79/-0.72	-0.74/-0.80	-0.78/-0.86	-1.04/-0.98	-0.90/-0.89	-1.51/-1.25
Θ (15°)	-1.22/-1.08	-0.99/-1.02	-0.91/-1.04	-0.99/-0.85	-0.73/-0.75	-0.94/-1.02	-1.33/-1.23	-1.09/-0.92	-0.72/-0.45	-0.20/-0.03	-0.01/-0.04	-0.13/-0.18	-0.24/-0.32	-0.35/-0.24	-0.02/-0.16	0.29/0.35	0.33/0.35	0.29/0.16	-0.12/-0.27	-0.53/-0.78	-0.75/-0.70	-0.65/-0.44	-0.20/-0.05	-0.92/-0.98
Θ (22.5°)	-0.69/-1.29	-0.19/-2.00	-1.95/-2.00	-1.36/-1.07	0.42/0.35	0.20/-0.15	-0.69/-1.12	-1.24/-1.10	-0.68/-0.20	0.50/0.16	1.66/1.86	1.82/1.68	1.59/1.48	1.29/0.97	0.56/0.15	-0.08/-0.20	-0.14/0.00	0.22/0.49	0.61/0.41	-0.21/-0.58	-0.39/-0.05	0.15/0.17	0.44/0.96	0.41/-0.04
Θ (30°)	-3.84/-4.32	-5.22/-5.66	-4.41/-2.69	-1.82/-1.39	-0.90/-0.62	-0.52/-0.67	-0.92/-1.42	-1.56/-0.97	-0.10/0.45	0.97/1.60	2.11/2.29	2.36/2.60	2.792.69	2.29/1.64	0.86/0.08	-0.68/-1.19	-0.94/-0.34	0.32/0.42	0.61/0.77	0.61/-0.29	-1.09/-0.89	-0.51/-0.91	-1.44/-1.48	-2.40/-3.47
Θ (37.5°)	-3.34/-4.13	-5.42/-6.00	-5.08/-3.66	-2.54/-1.97	-1.47/-1.18	-1.36/-1.79	-1.99/-2.30	-1.96/-0.85	0.31/0.60	0.71/0.96	0.95/0.70	0.97/1.25	1.27/1.40	1.37/1.06	0.85/0.71	-0.03/-0.93	-1.49/-0.78	0.29/0.50	-0.14/-0.81	-0.32/0.43	0.38/0.29	0.45/0.33	-0.10/-0.79	-2.29/-3.14
Θ (45°)	-3.13/-3.96	-5.61/-7.00	-6.88/-5.45	-3.98/-3.47	-3.16/-2.65	-2.53/-2.88	-3.19/-3.19	-2.48/-1.34	-0.03/0.29	0.06/-0.30	-1.15/-1.54	-0.97/-0.79	-1.04/-0.63	-0.02/-0.03	0.19/0.14	-0.40/-0.78	-1.05/-1.63	-1.84/-1.33	-0.67/-0.32	-0.31/-0.14	0.20/0.40	0.39/-0.21	-0.93/-1.37	-2.70/-3.63
Θ (52.5°)	-1.86/-3.28	-6.00/-7.74	-7.72/-6.89	-5.89/-5.02	-4.08/-3.12	-2.58/-2.61	-3.02/-3.65	-3.38/-2.16	-0.95/-0.63	-0.67/-1.06	-1.38/-1.05	-0.26/-0.11	-0.25/0.40	1.03/0.97	0.75/0.94	0.50/-0.84	-2.68/-3.61	-3.41/-2.37	-1.29/-0.90	-0.74/-0.31	0.41/1.25	2.01/2.01	1.16/0.42	-0.33/-1.80
Θ (60°)	-2.08/-1.28	-2.18/-3.85	-5.55/-6.90	-6.47/-5.79	-5.44/-5.04	-4.77/-5.04	-5.51/-6.01	-6.11/-4.73	-3.07/-1.97	-1.21/-0.28	0.41/0.94	1.46/1.16	0.92/1.31	1.64/1.49	0.33/-0.07	-0.54/-1.34	-1.92/-3.16	-3.75/-3.14	-2.26/-1.57	-1.15/-0.48	-0.17/0.51	0.64/0.78	0.31/-0.86	-1.69/-3.43
Θ (67.5°)	-1.98/-1.95	-2.80/-4.40	-4.36/-4.33	-3.78/-3.99	-4.86/-5.53	-5.22/-5.04	-5.91/-7.29	-7.03/-5.34	-3.68/-2.01	-0.83/0.57	0.78/0.70	0.50/-0.26	0.27/0.07	-1.52/-1.70	-0.28/-0.58	-2.84/-3.96	-4.53/-4.49	-2.90/-2.68	-2.02/-0.36	0.20/0.86	1.01/1.02	0.22/-1.14	-2.58/-2.79	
Θ (75°)	0.14/-0.61	-2.70/-3.39	-2.53/-2.19	-2.68/-4.14	-4.89/-5.02	-5.67/-8.04	-8.74/-9.18	-10.80/-9.85	-7.80/-5.09	-3.05/-1.62	-1.73/-1.40	-0.44/0.44	-0.29/-0.46	-0.89/-1.42	-2.12/-1.81	-1.46/-0.95	-1.52/-3.01	-2.13/-1.43	-2.11/-2.12	-1.84/-0.17	0.92/1.54	1.01/0.40	-0.18/-0.33	0.44/-0.20
Θ (82.5°)	-1.32/-1.18	-2.48/-2.20	-3.18/-1.91	-5.46/-5.00	-4.07/-5.21	-8.21/-8.53	-7.41/-8.37	-10.12/-8.75	-6.91/-4.51	-3.67/-1.86	-0.52/-0.35	0.72/0.76	0.91/0.17	-1.92/-2.72	-2.49/-3.17	-1.64/-2.20	-1.10/-1.08	-1.65/-2.24	-1.95/-2.68	-1.54/-0.11	0.50/0.84	0.47/-0.33	-0.86/0.14	1.06/-0.37
Θ (90°)	-0.77/-0.49	-1.48/-0.74	-1.42/-1.99	-1.58/-1.24	-1.43/-3.75	-3.22/-3.58	-9.05/-11.42	-11.87/-9.09	-9.46/-9.30	-6.08/-4.83	-2.76/-2.91	-1.90/-2.41	-1.79/-0.98	-2.46/-2.83	-2.57/-1.46	-3.44/-2.87	-3.62/-3.36	-3.88/-3.52	-2.98/-5.58	-2.99/-0.28	0.16/0.74	-0.06/0.00	-0.19/-1.09	1.84/0.50
Θ (97.5°)	-2.45/-1.87	-1.91/-1.35	-2.79/-5.62	-6.94/-5.95	-5.03/-5.72	-8.41/-11.79	-15.27/-13.42	-10.16/-9.19	-9.86/-7.48	-6.17/-4.73	-3.29/-5.24	-4.91/-5.55	-4.70/-2.97	-5.39/-7.40	-5.28/-2.31	-2.22/-2.12	-4.01/-6.52	-7.11/-5.32	-5.69/-7.47	-3.90/-1.56	-0.47/-1.15	-1.18/-1.09	-0.37/0.09	0.65/-1.02
Θ (105°)	-1.61/-0.32	-0.86/-1.27	-2.94/-5.50	-5.89/-5.84	-5.40/-7.38	-9.77/-13.43	-14.79/-14.16	-8.92/-8.60	-6.23/-5.91	-6.27/-6.91	-5.09/-4.99	-4.61/-4.10	-5.41/-3.87	-4.21/-5.23	-5.51/-5.47	-3.88/-4.39	-6.71/-6.89	-13.86/-17.49	-9.95/-11.66	-10.97/-11.69	-4.05/-2.98	-3.07/-2.18	-1.22/0.83	0.69/-1.43
Θ (112.5°)	-1.59/-0.95	-0.85/-2.10	-4.15/-5.35	-4.16/-4.92	-6.48/-9.71	-9.08/-13.49	-15.41/-15.24	-11.07/-11.81	-8.85/-9.63	-1.91/-10.27	-8.97/-17.14	-7.70/-4.50	-7.72/-8.00	-5.43/-6.63	-6.42/-4.86	-4.46/-6.66	-12.61/-13.98	-12.51/-11.27	-15.98/-11.79	-12.01/-7.44	-3.37/-2.87	-4.05/-5.82	-3.88/-1.59	-1.95/-2.64
Θ (120°)	-3.06/-2.52	-3.51/-4.15	-4.98/-6.03	-8.22/-9.52	-11.53/-11.41	-9.64/-10.08	-12.21/-11.99	-10.84/-9.77	-8.44/-8.46	-11.85/-14.18	-16.08/-10.55	-13.54/-9.75	-10.82/-13.11	-9.85/-6.74	-3.69/-4.55	-5.09/-6.65	-7.41/-11.12	-14.92/-11.45	-13.99/-11.39	-10.76/-6.29	-2.60/-1.73	-1.03/-1.92	-1.30/-0.49	0.10/-2.61
Θ (127.5°)	-1.13/-1.13	-2.41/-3.23	-4.39/-3.65	-6.66/-6.89	-9.49/-10.42	-11.55/-11.37	-11.22/-10.45	-7.92/-6.18	-7.08/-10.07	-13.58/-15.37	-15.11/-11.67	-11.21/-13.20	-12.50/-8.26	-5.14/-6.96	-14.55/-8.62	-7.37/-3.85	-8.59/-11.41	-11.70/-6.53	-14.53/-13.45	-6.89/-9.82	-5.80/-6.17	-4.44/-6.29	-3.53/0.40	0.63/-0.74
Θ (135°)	-4.56/-4.22	-6.60/-8.45	-8.83/-8.81	-7.84/-7.00	-7.38/-8.72	-12.22/-14.75	-15.84/-13.91	-12.19/-14.45	-14.36/-15.61	-15.96/-14.33	-12.84/-15.24	-14.05/-9.37	-11.19/-14.65	-9.28/-9.64	-10.98/-12.35	-6.83/-4.76	-8.70/-6.73	-5.48/-4.00	-4.52/-4.05	-8.14/-4.12	-5.87/-5.68	-5.65/-3.59	-1.85/-4.17	
Θ (142.5°)	-8.28/-9.65	-11.20/-12.46	-11.43/-12.61	-12.43/-10.53	-11.44/-13.72	-15.70/-14.71	-14.05/-11.41	-10.79/-11.23	-12.60/-13.21	-11.19/-8.64	-7.42/-10.08	-8.97/-7.65	-9.27/-11.35	-11.41/-9.68	-9.60/-7.05	-6.05/-11.01	-5.97/-6.07	-11.68/-9.16	-12.88/-13.26	-9.49/-6.75	-10.16/-8.11	-5.65/-6.58	-5.51/-4.63	-7.62/-5.69
Θ (150°)	-6.70/-7.74	-9.24/-10.55	-11.73/-10.83	-10.70/-13.62	-13.71/-14.97	-15.02/-15.16	-14.32/-11.26	-11.13/-12.62	-14.64/-15.88	-15.76/-13.20	-10.16/-9.24	-8.29/-7.51	-5.24/-3.20	-3.13/-4.41	-5.40/-6.34	-7.64/-6.30	-5.12/-7.30	-11.10/-13.93	-13.34/-12.25	-13.63/-11.82	-10.33/-10.59	-10.65/-9.89	-8.56/-5.86	-5.22/-6.18
Θ (157.5°)	-10.83/-11.25	-11.97/-12.22	-10.41/-9.12	-9.58/-10.69	-12.55/-14.43	-15.60/-14.09	-12.94/-13.02	-11.90/-12.00	-13.43/-13.44	-12.69/-12.46	-13.04/-12.99	-12.41/-10.50	-8.11/-6.79	-6.51/-6.44	-6.39/-6.20	-5.85/-5.95	-6.33/-7.22	-7.95/-9.78	-12.94/-15.84	-14.98/-14.16	-10.46/-5.76	-6.14/-5.68	-5.84/-6.25	-7.04/-9.02
Θ (165°)	-10.18/-9.85	-9.54/-8.97	-8.23/-9.93	-8.85/-10.51	-13.08/-14.88	-15.50/-15.83	-14.06/-11.99	-11.02/-10.91	-12.20/-13.57	-14.05/-13.92	-12.84/-11.30	-9.60/-7.47	-6.64/-4.50	-4.03/-4.02	-4.28/-4.59	-5.09/-5.95	-7.18/-8.67	-9.97/-11.10	-10.79/-11.27	-13.62/-15.49	-15.18/-10.95	-8.		



Θ (172.5°)	-3.53/-3.63	-3.28/-2.97	-2.95/-3.04	-2.98/-2.95	-3.16/-3.41	-3.49/-3.74	-4.02/-4.09	-3.38/-2.28	-1.04/-0.21	1.19/2.06	2.79/3.36	3.68/3.84	3.82/3.60	3.14/2.40	1.38/0.06	-1.58/-3.53	-5.38/-5.27	-3.66/-1.90	-0.88/-0.49	-0.12/0.06	-0.38/-0.99	-1.10/-0.89	-1.38/-2.71	-3.65/-3.58
Θ (180°)	-3.87/-3.73	-3.29/-3.42	-3.56/-3.48	-3.71/-3.89	-4.18/-4.45	-4.67/-4.99	-5.33/-5.77	-6.07/-5.90	-5.20/-4.39	-3.87/-3.56	-3.38/-3.31	-3.45/-3.69	-4.09/-4.74	-5.63/-6.73	-7.31/-6.29	-5.18/-4.08	-2.98/-2.16	-1.62/-1.34	-1.25/-1.33	-1.44/-1.40	-1.71/-1.74	-1.39/-1.29	-2.29/-3.52	-4.16/-3.75
Freq(Hz)	5.3G/Pol.	Total/Ant. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-4.65/-4.20	-3.21/-2.32	-2.18/-2.30	-2.59/-2.64	-2.80/-2.79	-2.69/-2.47	-2.30/-2.33	-2.57/-2.84	-3.16/-3.41	-3.62/-3.91	-4.31/-4.46	-4.59/-5.03	-5.08/-4.88	-4.48/-3.99	-3.87/-3.94	-4.26/-4.55	-4.77/-4.26	-3.52/-3.08	-2.97/-3.18	-3.41/-3.38	-3.90/-4.08	-3.97/-3.51	-3.63/-3.84	-3.92/-4.32
Θ (7.5°)	-4.47/-3.78	-3.60/-3.46	-3.86/-4.63	-5.36/-5.24	-4.88/-4.99	-4.84/-4.64	-4.25/-3.93	-3.57/-3.20	-2.88/-2.50	-2.29/-2.26	-2.30/-2.36	-2.44/-2.46	-2.28/-1.87	-1.48/-1.43	-1.56/-1.85	-2.31/-2.73	-2.69/-2.62	-2.32/-2.37	-2.64/-3.15	-3.23/-3.49	-4.02/-4.19	-4.00/-3.77	-3.80/-4.33	-5.30/-4.96
Θ (15°)	-3.56/-3.45	-3.87/-3.75	-3.60/-3.81	-5.20/-5.74	-6.51/-8.19	-8.32/-7.94	-7.56/-6.53	-5.77/-4.89	-3.74/-2.81	-2.08/-1.57	-1.43/-1.59	-1.61/-1.86	-2.04/-2.29	-2.60/-2.99	-3.47/-4.09	-4.66/-4.77	-4.49/-4.11	-3.95/-4.13	-4.63/-4.50	-4.20/-3.68	-3.21/-2.64	-2.32/-2.20	-2.09/-2.07	-3.50/-3.46
Θ (22.5°)	-3.75/-4.08	-4.72/-6.00	-6.43/-5.99	-7.06/-6.65	-7.14/-8.10	-8.09/-8.29	-8.66/-8.60	-8.29/-6.84	-5.38/-4.26	-3.59/-3.12	-2.86/-2.68	-2.78/-3.16	-3.86/-4.55	-4.78/-4.64	-4.60/-5.00	-5.60/-6.04	-5.77/-5.60	-6.20/-7.25	-7.43/-6.63	-5.07/-3.49	-2.23/-2.13	-2.45/-2.71	-2.93/-2.56	-3.31/-3.53
Θ (30°)	-3.26/-4.09	-4.44/-5.98	-7.19/-6.52	-6.01/-6.43	-7.10/-7.36	-6.55/-7.12	-7.17/-7.26	-7.62/-8.75	-6.68/-6.80	-5.11/-4.36	-4.12/-4.02	-4.40/-5.52	-6.81/-7.18	-6.18/-5.39	-5.77/-6.82	-7.85/-8.04	-7.70/-8.29	-5.45/-4.08	-4.18/-5.19	-5.50/-3.96	-2.10/-1.14	-1.54/-2.37	-2.90/-3.14	
Θ (37.5°)	-3.87/-3.22	-2.91/-4.15	-4.00/-2.65	-2.60/-3.88	-5.01/-6.80	-8.00/-6.95	-5.90/-5.14	-5.06/-5.16	-4.50/-3.06	-2.28/-2.21	-2.65/-3.73	-4.97/-5.88	-6.63/-7.72	-8.16/-8.38	-9.45/-9.72	-8.77/-8.48	-9.74/-12.00	-11.85/-11.27	-7.10/-3.38	-0.91/-0.30	-1.09/-1.99	-2.05/-1.33	-1.18/-1.72	-2.60/-4.70
Θ (45°)	-6.55/-6.05	-5.84/-9.65	-8.03/-6.57	-4.91/-5.90	-7.05/-7.94	-8.67/-6.42	-4.06/-3.53	-4.57/-5.14	-4.12/-2.21	-1.15/-1.29	-2.08/-2.86	-3.70/-4.28	-4.50/-6.95	-10.56/-9.01	-8.26/-8.65	-8.03/-6.36	-7.30/-8.07	-6.04/-7.00	-6.97/-4.56	-2.61/-1.49	-1.73/-2.54	-2.33/-2.32	-3.04/-3.66	-3.32/-5.93
Θ (52.5°)	-6.65/-5.86	-4.19/-5.74	-4.81/-4.68	-5.09/-5.12	-7.01/-9.00	-8.30/-5.26	-3.14/-2.58	-3.49/-4.21	-3.01/-1.42	-0.60/-1.41	-2.55/-3.20	-3.99/-4.31	-3.81/-5.71	-6.66/-6.87	-8.87/-8.95	-6.65/-4.36	-4.53/-4.12	-5.53/-10.13	-9.65/-6.08	-3.10/-2.42	-2.90/-3.16	-2.05/-1.07	-1.74/-3.15	-5.41/-6.60
Θ (60°)	-8.46/-6.88	-6.10/-4.65	-4.51/-4.61	-5.69/-6.14	-7.44/-8.55	-11.46/-9.07	-6.29/-5.78	-8.50/-11.57	-6.30/-3.31	-1.89/-1.42	-1.62/-1.57	-1.65/-2.38	-2.84/-3.66	-3.85/-3.51	-3.53/-3.16	-3.85/-5.53	-7.44/-8.75	-8.67/-7.48	-9.89/-12.53	-8.78/-5.52	-6.62/-7.43	-4.81/-3.09	-2.94/-4.03	-6.93/-4.00
Θ (67.5°)	-5.57/-6.42	-7.32/-7.64	-8.31/-7.09	-6.02/-4.81	-4.78/-5.99	-10.03/-9.56	-7.74/-6.94	-6.04/-3.72	-1.90/-2.22	-3.84/-4.02	-2.30/-2.02	0.41/-1.08	1.822/-44	2.58/-80	-0.15/-1.60	-3.53/-3.41	-3.52/-6.80	-1.16/-1.73	-4.74/-3.59	-4.34/-7.04	-7.99/-7.15	-5.44/-6.13	-9.17/-10.31	-8.52/-6.99
Θ (75°)	-6.87/-5.58	-6.32/-6.85	-8.07/-4.59	-4.00/-3.99	-5.09/-6.35	-7.14/-7.56	-6.98/-5.42	-4.27/-2.04	-0.64/-0.71	-2.31/-2.69	-1.91/-1.00	-0.27/0.09	0.23/-0.31	-0.59/-0.30	-1.23/-4.43	-5.33/-3.01	-3.59/-4.58	-6.13/-5.51	-5.14/-6.32	-4.47/-5.88	-7.14/-6.21	-6.55/-7.54	-9.61/-11.13	-13.17/-11.21
Θ (82.5°)	-7.26/-8.46	-9.94/-10.92	-10.67/-8.19	-8.10/-6.61	-7.70/-8.99	-6.37/-4.41	-6.05/-10.72	-8.23/-2.95	-0.69/0.60	1.23/1.21	0.18/-1.47	-2.12/-0.65	0.55/0.50	0.15/-0.96	-3.99/-6.07	-7.62/-6.09	-5.68/-5.28	-5.56/-4.38	-7.21/-7.61	-4.72/-7.00	-8.00/-4.56	-4.30/-7.61	-12.49/-12.03	-7.90/-7.52
Θ (90°)	-12.80/-10.28	-10.60/-10.59	-11.88/-11.77	-10.29/-7.11	-7.33/-10.69	-9.96/-7.35	-6.16/-7.40	-4.56/-2.57	-0.40/0.42	-0.14/-1.40	-3.21/-4.10	-4.27/-5.37	-3.40/-1.76	-1.89/-0.67	-0.33/0.07	-0.66/-3.18	-8.33/-8.41	-12.64/-10.48	-6.94/-7.57	-8.06/-10.87	-9.71/-12.20	-8.71/-9.28	-8.72/-9.90	
Θ (97.5°)	-10.45/-9.73	-9.26/-11.10	-11.84/-12.58	-12.61/-12.35	-11.28/-9.60	-10.06/-11.83	-9.73/-7.93	-5.77/-4.37	-5.08/-6.21	-4.67/-2.07	-0.66/0.29	0.59/-1.59	2.05/-9.00	1.47/-1.04	1.89/0.14	-1.93/0.87	-2.18/-2.78	-5.40/-6.75	-5.48/-7.97	-10.28/-12.09	-13.74/-13.67	-12.19/-13.28	-8.60/-15.06	-14.61/-15.85
Θ (105°)	-10.21/-12.90	-10.39/-10.28	-8.03/-8.07	-9.04/-7.70	-7.86/-9.66	-7.10/-5.72	-7.01/-11.66	-6.28/-1.60	-0.52/-1.67	-4.32/-8.57	-6.37/-2.58	-0.30/1.02	1.672/60	2.83/3.71	2.66/0.65	-4.59/-1.48	-0.34/-1.36	-7.23/-11.42	-9.88/-6.22	-2.77/-8.64	-11.68/-7.46	-13.74/-12.96	-6.66/-9.78	-11.02/-8.11
Θ (112.5°)	-5.29/-9.21	-11.17/-11.94	-9.68/-7.39	-6.30/-4.95	-3.12/-3.57	-3.95/-3.79	-4.44/-6.62	-7.58/-3.32	-1.37/-0.86	-1.74/-2.92	-3.16/-1.83	-0.99/-0.12	1.21/-1.22	0.90/-1.43	-2.47/-4.14	-2.72/-5.04	-5.93/-10.82	-10.59/-9.02	-12.66/-9.92	-5.35/-7.80	-14.69/-11.67	-7.65/-4.97	-7.79/-8.71	-12.22/-8.82
Θ (120°)	-5.60/-6.85	-6.77/-8.75	-10.86/-10.12	-7.77/-6.46	-4.93/-5.41	-5.12/-1.86	-0.67/-0.29	-0.48/-0.97	-1.24/-1.32	-1.23/-1.11	-0.50/-0.49	0.00/-0.40	-1.30/-1.35	-1.70/-3.15	-2.03/-2.36	-0.39/-7.31	-5.35/-3.48	-3.02/-3.18	-6.20/-6.59	-5.01/-6.52	-14.59/-9.58	-6.46/-7.59	-11.27/-6.36	-5.74/-3.54
Θ (127.5°)	-5.46/-7.37	-14.78/-15.11	-15.94/-15.74	-13.32/-13.21	-12.15/-7.00	-4.32/-2.00	-0.34/0.05	-0.26/-0.43	-0.24/-1.13	-2.01/-1.43	0.792/-19	3.222/89	2.38/1.46	-2.19/-2.91	-1.95/-5.22	7.83/-4.55	-2.91/-1.97	-2.30/-4.14	-9.88/-5.81	-1.26/-5.15	-8.04/-5.79	-2.04/-2.75	-10.49/-10.55	-6.70/-7.86
Θ (135°)	-6.43/-5.01	-5.53/-6.90	-6.68/-6.65	-6.93/-6.64	-6.20/-6.66	-8.17/-8.83	-9.57/-9.93	-4.58/-0.33	1.802/-48	2.380/-71	-0.66/0.31	2.232/67	3.503/-24	1.470/-44	-1.27/-3.37	-5.25/-9.92	-4.72/-3.29	-1.45/-2.82	-7.09/-8.10	-1.40/-1.07	-5.25/-3.64	-15.39/-10.73	-9.09/-10.75	-6.93/-5.57
Θ (142.5°)	-7.27/-7.13	-7.94/-6.55	-5.07/-5.38	-7.08/-8.28	-7.94/-6.10	-4.26/-3.06	-3.12/-4.13	-3.20/-2.10	-1.06/-0.76	-1.53/-1.58	0.01/-1.60	2.352/00	0.99/-0.97	-3.23/-2.48	-1.58/-2.62	-1.17/-1.17	0.43/-2.15	-4.03/-8.32	-7.74/-8.92	-5.45/-1.75	-3.92/-5.29	-6.46/-5.06	-4.96/-9.59	-12.91/-8.67
Θ (150°)	-8.41/-9.87	-11.02/-11.72	-9.66/-8.01	-6.73/-5.44	-3.86/-2.32	-1.75/-1.81	-2.23/-3.90	-5.61/-5.09	-3.91/-3.49	-2.95/-1.93	-1.16/-0.62	-0.77/-1.49	-2.21/-3.69	-7.51/-11.85	-8.41/-4.76	-2.83/-2.44	-1.87/-0.81	-1.45/-3.75	-4.19/-3.48	-1.19/0.50	-0.82/-3.87	-5.80/-6.02	-5.30/-6.25	-7.79/-6.98
Θ (157.5°)	-4.55/-4.18	-4.29/-5.85	-8.23/-10.56	-9.72/-6.93	-5.05/-4.05	-3.92/-4.91	-5.95/-6.71	-3.77/-3.63	-5.78/-2.62	0.04/-1.86	2.97/51	3.593/-46	3.323/-74	3.212/-79	2.21/-1.58	1.331/-40	1.23/0.20	-2.05/-3.76	-3.16/-1.46	0.23/-1.27	1.02/-0.64	-3.84/-7.21	-9.27/-10.74	-10.97/-6.67
Θ (165°)	-3.09/-2.50	-2.42/-3.18	-3.29/-3.43	-2.89/-2.58	-2.47/-2.68	-3.02/-3.42	-3.76/-3.97	-3.66/-5.30	-2.38/-2.95	-2.18/-1.19	-0.13/0.82	1.512/06	2.542/96	3.153/27	3.233/13	3.012/65	1.780/54	-1.14/-1.89	-1.73/-1.21	-1.00/-0.92	-1.75/-4.26	-8.05/-8.63	-7.13/-6.47	-5.33/-4.16
Θ (172.5°)	-4.63/-4.72	-3.91/-3.32	-3.11/-2.55	-2.19/-2.25	-2.18/-2.33	-2.56/-3.09	-3.92/-4.38	-4.24/-3.28	-2.12/-0.90	0.28/-1.28	2.092/69	3.123/38	3.423/29	3.002/63	2.11/-1.24	-0.12/-1.99	-4.20/-5.71	-5.35/-4.14	-3.05/-2.52	-2.25/-2.10	-2.30/-2.71	-2.33/-1.38	-1.63/-3.12	-4.40/-4.72
Θ (180°)	-6.57/-7.18	-6.81/-6.46	-6.04/-5.22	-4.53/-4.48	-4.72/-5.00	-5.35/-5.60	-6.14/-6.40	-6.29/-6.13	-5.50/-4.82	-4.36/-3.91	-3.71/-3.52	-3.38/-3.85	-4.74/-6.08	-7.84/-9.15	-9.96/-10.15	-9.55/-8.73	-6.98/-5.37	-3.87/-2.56	-2.01/-2.06	-2.29/-2.44	-2.89/-3.23	-2.65/-2.23	-3.03/-4.57	-5.74/-5.86
Freq(Hz)	5.6G/Pol.	Total/Ant. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-2.79/-2.77	-2.81/-2.79	-2.80/-2.82	-3.00/-2.56	-2.32/-2.08	-2.14/-2.14	-2.03/-2.15	-2.30/-2.38	-2.42/-2.49	-2.45/-2.48	-2.55/-2.56	-2.57/-2.59	-2.66/-3.00	-3.35/-3.87	-3.99/-3.97	-3.80/-3.60	-3.59/-3.88	-3.96/-4.11	-4.05/-4.01	-3.78/-3.92	-4.01/-4.14	-3.96/-3.75	-3.92/-2.88	
Θ (7.5°)	-2.16/-1.83	-2.49/-2.92	-3.23/-3.65	-4.08/-3.91	-4.06/-4.24	-4.40/-4.19	-3.83/-3.44	-3.31/-3.16	-3.16/-2.76	-2.48/-2.33	-2.12/-1.99	-2.20/-2.00	-2.17/-2.29	-2.52/-2.63	-2.81/-3.02	-3.58/-3.86	-4.02/-4.27	-4.30/-4.04	-4.06/-3.68	-3.21/-2.73	-2.69/-2.74	-2.37/-2.40	-2.74/-2.65	
Θ (15°)	-5.17/-5.04	-5.36/-5.42	-6.07/-5.93	-6.64/-6.92	-7.67/-8.48	-8.48/-7.76	-6.67/-6.21	-6.09/-5.35	-4.57/-3.41	-2.57/-1.74	-1.16/-0.86	-0.82/-0.93	-1.06/-1.24	-1.28/-1.14	-1.15/-1.20	-1.40/-2.06	-2.98/-4.01	-4.63/-4.11	-3.09/-2.44	-2.38/-2.61	-2.49/-2.78	-3.28/-3.80	-4.26/-4.29	-5.06/-5.34
Θ (22.5°)	-4.48/-5.16	-4.89/-4.56	-3.64/-3.19	-3.93/-6.07	-6.91/-9.11	-9.22/-8.62	-6.84/-4.84	-2.83/-1.54	-0.71/-0.55	-0.50/-0.48	-0.53/-0.88	-1.39/-1.98	-2.32/-2.61	-3.02/-3.73	-4.54/-4.79	-4.64/-4.98	-6.07/-8.48	-9.10/-6.68	-4.67/-3.86	-3.85/-4.22	-4.61/-4.91	-4.81/-4.35	-4.16/-3.53	-3.45/-4.10
Θ (30°)	-5.90/-6.03	-6.10/-4.26	-4.94/-5.67	-5.90/-7.23	-10.09/-13.01	-11.88/-10.23	-6.08/-3																	

E1(XY plane) – $\Theta(90)\Phi(0-360)$
 E2(XZ plane) – $\Theta(0-180)\Phi(0)$ and $\Theta(0-180)\Phi(180)$
 E3(YZ plane) – $\Theta(0-180)\Phi(90)$ and $\Theta(0-180)\Phi(270)$

