



Antenna Composite Gain Test Report

Equipment	Wireless-AXE7800 Tri-band Gigabit Router
Brand Name	ASUS
Model Name	RT-AXE7800
Applicant	ASUSTeK COMPUTER INC. 1F., No. 15, Lide Rd., Beitou, Taipei City 112, Taiwan
Manufacturer (1)	Compal Networking(KunShan) CO., LTD No.520,Nan Bang RD., Economic & Technical Development Zone, KunShan,JiangSu,China
Manufacturer (2)	ARCADYAN TECHNOLOGY (VIETNAM) CO., LTD. Land plot No. D4-5-6, Thang Long Industrial Park (Vinh Phuc), Thien Ke Commune, Binh Xuyen District, Vinh Phuc Province, Vietnam
Manufacturer (3)	ASKEY COMPUTER CORP 10F,No.119, JIANKANG RO., ZHONGHE DIST., NEW TAIPEI CITY 23585, TAIWAN, R.O.C.
Sample Received	Jan. 24, 2022
Start Test Date	Mar. 23, 2022
Final Test Date	Mar. 23, 2022



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History of this test report

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1. Operation Mode and Antenna Information

Antenna Position	RF Port	Brand Name	P/N	Ant. Type	Connector	Modes of Operation
5G Ant1	3	INPAQ	RFDPA112124IM5B701	Dipole	I-PEX	5GHz UNII 1~3
5G Ant2	2	INPAQ	RFDPA112110IM5B701	Dipole	I-PEX	5GHz UNII 1~3
5G Ant3	1	INPAQ	RFDPA112104IM5B701	Dipole	I-PEX	5GHz UNII 1~3
5G Ant4	4	INPAQ	RFDPA112118IM5B701	Dipole	I-PEX	5GHz UNII 1~3

Note:

5GHz Operation Mode (4TX/4RX)

5G Ant1~4 can be used as transmitting/receiving antenna.

5G 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]
5150-5250	5200
5250-5350	5300
5470-5725	5600
5725-5850	5785

3. Testing Location

Testing Location		
☒	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	Mar. 23, 2022

Note:

Testing Site Information

Brand Name: TDK

Dimension: 11m*6m*6m

Characteristic: Fully Anechoic Chamber

4. Test Facility and Configuration

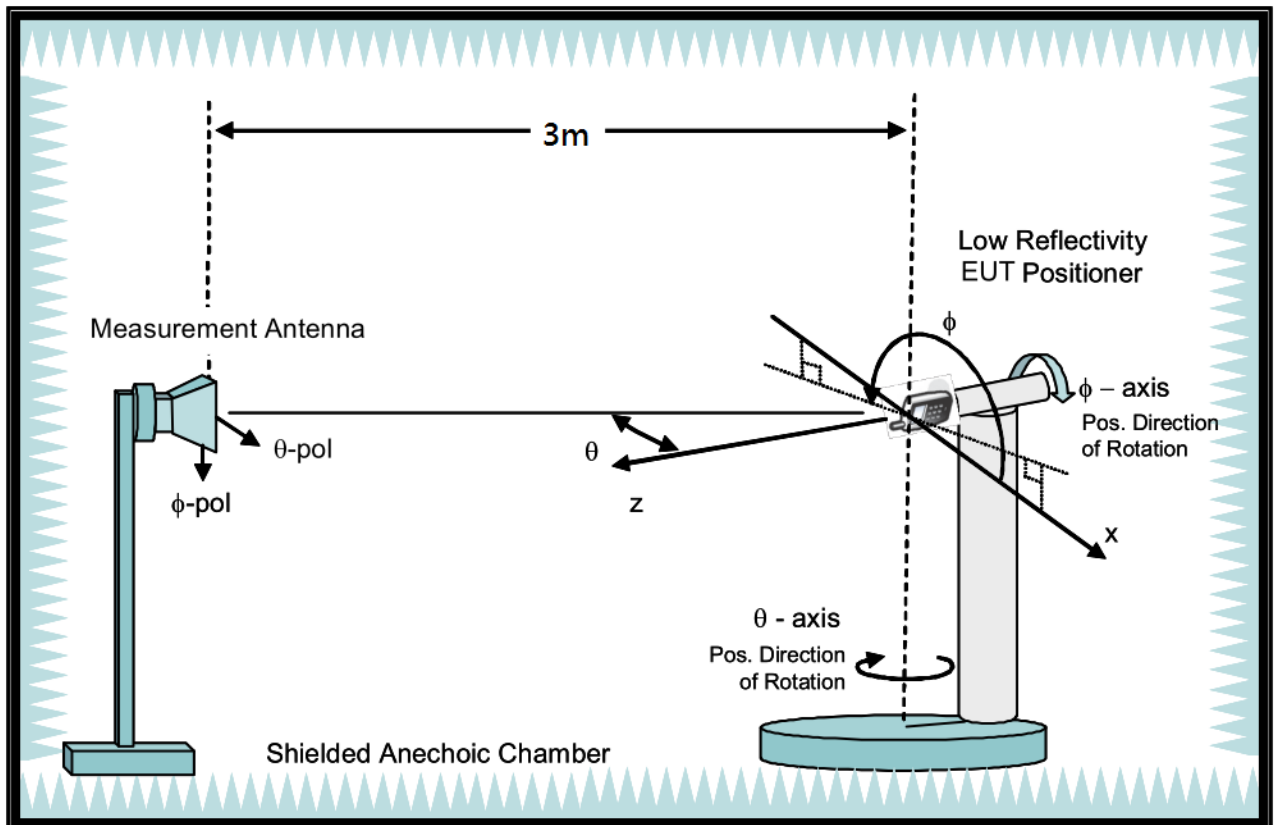
Test configuration: Reference to CITA OTA distributed-axes system configuration.

Chamber: Fully Anechoic Chamber.

Measurement antenna: Single Polarization Horn antenna calibrated according to ANSI C63.5.

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

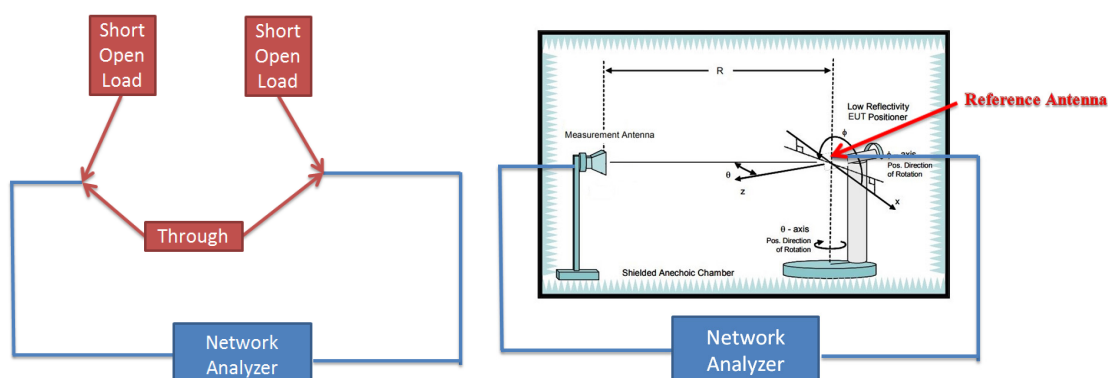
#Reference to CTIA "ctia-test-plan-for-wireless-device-over-the-air-performance-ver-3-7-1"



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	7500
G values (dBi)	-31.4	-31.4	-31.3	-31.3	-31	-30.7	-30.1	-30.5	-30.5	-30.8	-31.3	-32.8	-34.4	-35.4
Reference gain (dBi)	10.2	10.4	10.6	12.4	12.8	13.4	13.4	13.3	13.3	13.1	13.2	12.3	11.7	11.1
Factor (dB)	41.63	41.81	41.89	43.72	43.78	44.12	43.5	43.78	43.76	43.88	44.45	45.14	46.08	46.51

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 15 degree from 0 to 345 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)	5.2G	5.3G	5.6G	5.785G
Ant. 1 (dBi)	0.65	1.62	-0.39	-0.51
Ant. 2 (dBi)	2.21	0.6	-0.31	2.44
Ant. 3 (dBi)	-0.21	0.59	1.66	1.09
Ant. 4 (dBi)	0.81	-0.8	0.99	-0.21
DG [1SS] (dBi)	6.93	6.57	6.55	6.8
Polarization	Theta	Theta	Theta	Theta
Θ (°)	90	90	90	90
Φ (°)	270	270	285	255

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)	5.2G	5.3G	5.6G	5.785G
Ant. 1 [$10^{(G/20)}$]	$10^{(0.65/20)}$	$10^{(1.62/20)}$	$10^{(-0.39/20)}$	$10^{(-0.51/20)}$
Ant. 2 [$10^{(G/20)}$]	$10^{(2.21/20)}$	$10^{(0.6/20)}$	$10^{(-0.31/20)}$	$10^{(2.44/20)}$
Ant. 3 [$10^{(G/20)}$]	$10^{(-0.21/20)}$	$10^{(0.59/20)}$	$10^{(1.66/20)}$	$10^{(1.09/20)}$
Ant. 4 [$10^{(G/20)}$]	$10^{(0.81/20)}$	$10^{(-0.8/20)}$	$10^{(0.99/20)}$	$10^{(-0.21/20)}$
Ant. 1 [$10^{(G/20)}$] value	1.078	1.205	0.956	0.943
Ant. 2 [$10^{(G/20)}$] value	1.29	1.072	0.965	1.324
Ant. 3 [$10^{(G/20)}$] value	0.976	1.07	1.211	1.134
Ant. 4 [$10^{(G/20)}$] value	1.098	0.912	1.121	0.976
Sum All Antenna [Amax]	4.441	4.259	4.252	4.377
DG [$10 \cdot \log(A_{max}^2/N_{ant})$]	6.93	6.57	6.55	6.8

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

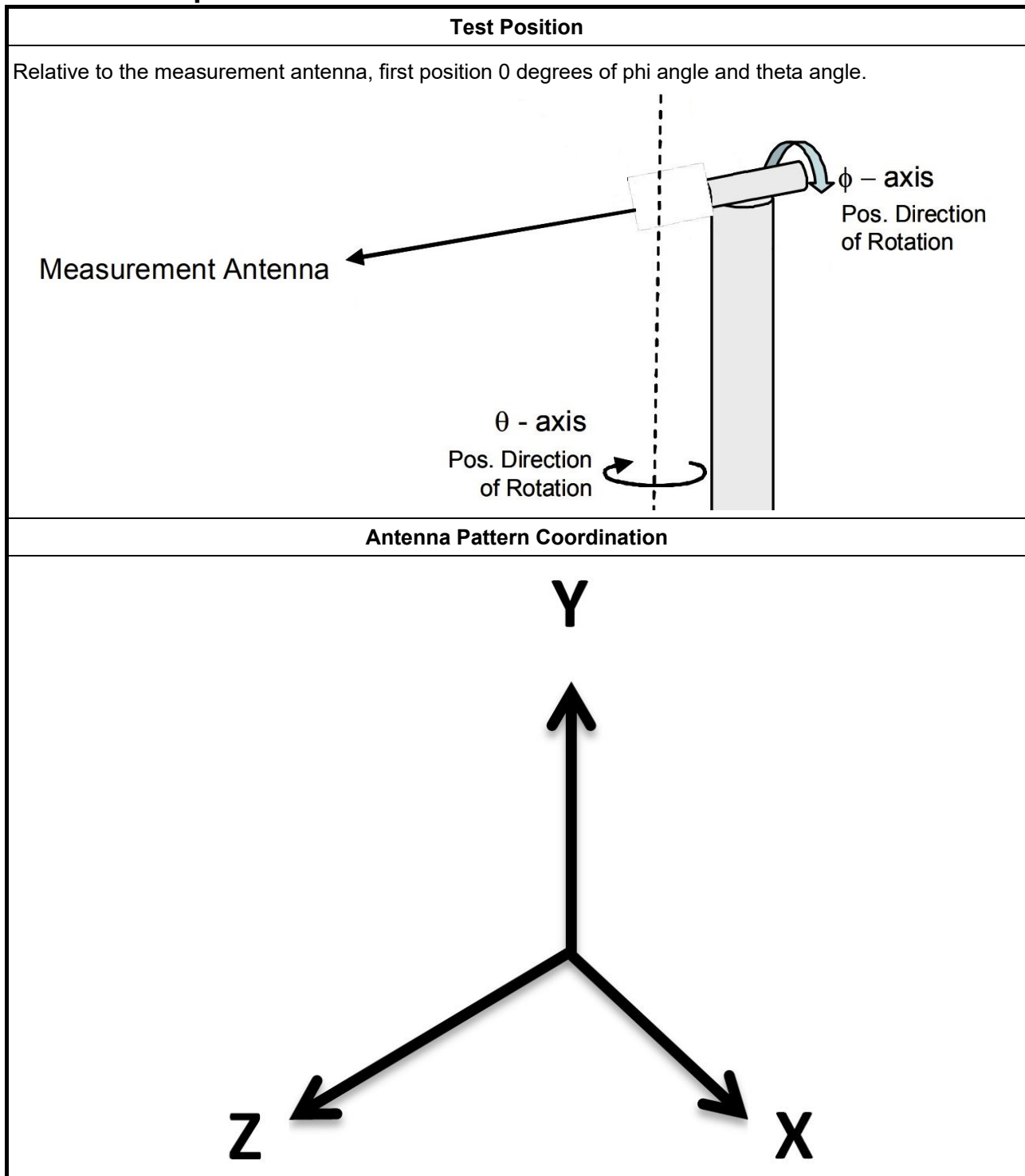
8. Summary of Test Result

Freq(Hz)	5.2G	5.3G	5.6G	5.785G
Ant. 1 Max Gain (dBi)	2.34	1.62	2.93	2.31
Ant. 2 Max Gain (dBi)	2.21	1.46	1.58	2.44
Ant. 3 Max Gain (dBi)	1.67	2.02	1.66	2.18
Ant. 4 Max Gain (dBi)	2.06	1.75	2.15	1.85
Ant. 1 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/90/300	Theta/90/270	Theta/105/270	Theta/105/270
Ant. 2 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/90/270	Theta/60/270	Theta/90/240	Theta/90/255
Ant. 3 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/90/285	Theta/105/225	Theta/90/285	Theta/90/60
Ant. 4 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/90/285	Theta/90/0	Theta/90/315	Theta/75/180
Max Gain (dBi)	2.34	2.02	2.93	2.44
DG [1SS] (dBi)	6.93	6.57	6.55	6.8
DG [2SS] (dBi)	3.93	3.57	3.55	3.8
DG [4SS] (dBi)	2.34	2.02	2.93	2.44

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. For 5G Directional Gain (2SS) = Directional Gain (1SS) – 3dB.

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-1292	1GHz~18GHz	Aug. 04, 2021	Aug. 03, 2022
ENA Series Network Analyzer	AGILENT	E5071C	MY46419201	100kHz~8.5GHz	Feb. 21, 2022	Feb. 20, 2023
Test Software	SPORTON	SENSE-RDG	V1.0.6	-	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.

Appendix A – Radiated Composite Gain of 5GHz U-NII 1 ~ U-NII 3.....	Page 13
Appendix B – Antenna Pattern of 5GHz U-NII 1 ~ U-NII 3.....	Page 25
Appendix C – Test Photos.....	Page 33

Freq(Hz)	5.2G	5.3G	5.6G	5.785G
Ant. 1 Max Gain (dBi)	2.34	1.62	2.93	2.31
Ant. 2 Max Gain (dBi)	2.21	1.46	1.58	2.44
Ant. 3 Max Gain (dBi)	1.67	2.02	1.66	2.18
Ant. 4 Max Gain (dBi)	2.06	1.75	2.15	1.85
Ant. 1 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/90/300	Theta/90/270	Theta/105/270	Theta/105/270
Ant. 2 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/90/270	Theta/60/270	Theta/90/240	Theta/90/255
Ant. 3 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/90/285	Theta/105/225	Theta/90/285	Theta/90/60
Ant. 4 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/90/285	Theta/90/0	Theta/90/315	Theta/75/180
Max Gain (dBi)	2.34	2.02	2.93	2.44
DG [1SS] (dBi)	6.93	6.57	6.55	6.8
DG [2SS] (dBi)	3.93	3.57	3.55	3.8
DG [4SS] (dBi)	2.34	2.02	2.93	2.44



DG 1SS Result

Freq(Hz)	5.2G	Pol.	Phi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DG(dBi)	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-10.08	-7.22	-6.8	-8.34	-9.28	-10.45	-13.31	-15.38	-11.13	-13.18	-11.46	-8.52	-7.06	-8.64	-7.51	-7.65	-9.73	-8.56	-13.07	-12.31	-14.12	-10.48	-10.86	-11.08
Θ(15°)	-7.74	-8.69	-9.37	-8.26	-9.11	-8.8	-9.13	-12.94	-18.69	-14.39	-8.33	-7.83	-7.82	-7.25	-8.06	-9.32	-12.61	-10.09	-13.92	-14.26	-16.95	-10.88	-7.07	-6.71
Θ(30°)	-7.98	-5.99	-8.26	-11.71	-9.65	-10.46	-7.16	-10.14	-10.48	-10.78	-6.27	-7.83	-7.14	-8.15	-12.87	-10.01	-7.49	-8.63	-11.08	-10.28	-11.16	-11.41	-5.75	-4.1
Θ(45°)	-12.1	-9.08	-4.87	-6.06	-7.65	-7.97	-8.48	-13.74	-10.56	-7.72	-10.6	-9.88	-15.16	-8.21	-7.73	-7.88	-10.38	-11.95	-7.13	-13.23	-12.22	-10.25	-9.53	-9.74
Θ(60°)	-6.15	-8.9	-9.63	-12	-10.9	-10.99	-10.35	-9.03	-8.35	-11.3	-9.35	-7.56	-11.75	-6.68	-14.35	-13.07	-11.9	-9.29	-7.53	-13.81	-9.45	-10.8	-10.54	-10.77
Θ(75°)	-8.14	-8.38	-11.23	-11.31	-12.64	-10.46	-13.19	-13.11	-10.9	-7.64	-9.81	-5.96	-11.67	-7.57	-12.93	-6.97	-6.45	-8.95	-7.81	-7.67	-9.87	-7.98	-13.46	-10.67
Θ(90°)	-9.51	-10.67	-9.86	-10.33	-6.68	-10.08	-8.59	-13.53	-11.09	-9.13	-11.06	-8.93	-10.02	-7.25	-10.33	-13.71	-11.32	-7.61	-10.34	-12.9	-10.59	-10.98	-10.53	-11.27
Θ(105°)	-12.45	-9.39	-8.65	-12.77	-8.67	-13.48	-13.25	-16.37	-7.66	-4.39	-10.08	-7.45	-9.4	-9.28	-8.69	-10.68	-10.35	-10.43	-9.31	-10.64	-12.16	-12.14	-12.64	-10.16
Θ(120°)	-10.56	-9.06	-11.13	-13.72	-11.79	-9.11	-12.59	-11.32	-9.17	-7.08	-7.3	-9.34	-10.95	-11.15	-10.21	-9.28	-8.83	-12.03	-7.07	-12.24	-11.48	-13.96	-10.39	-12.86
Θ(135°)	-14.87	-12.13	-13.86	-10.03	-11.11	-9.76	-9.02	-6.29	-7.62	-8.36	-8.77	-11.66	-9.13	-11.19	-11.49	-7.66	-7.41	-14.22	-10.99	-9.96	-12.16	-12.86	-10.23	-13.85
Θ(150°)	-10.35	-13	-10.2	-10.33	-9.12	-8.62	-7.56	-7.08	-6.89	-7.67	-7.07	-6.84	-6.96	-8.67	-11.05	-8.67	-9.93	-10.29	-10.66	-7.4	-9.01	-11.69	-8.09	-8.53
Θ(165°)	-9.17	-8.94	-11.6	-13.24	-12.41	-10.76	-9.53	-7.58	-6.12	-5.98	-4.91	-4.3	-6.39	-10	-12.05	-12.46	-13.87	-14.46	-10.21	-7.31	-8.58	-7.96	-9.27	-8.68
Θ(180°)	-9.5	-11.28	-12.09	-12.47	-11.1	-7.08	-8.59	-7.7	-8.33	-10.28	-11.23	-14.35	-13.77	-8.18	-7.2	-6.52	-6.97	-6.96	-5.7	-6.59	-5.75	-5.15	-5.4	-7.51
Freq(Hz)	5.2G	Pol.	Theta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dBi)	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-11.78	-12.45	-11.76	-10.38	-10.66	-10.34	-10.5	-9.25	-10.63	-9.89	-9.61	-12.02	-11.38	-12.89	-13.19	-11.53	-8.74	-9.26	-7.6	-8.82	-7.95	-9	-11.01	-11.46
Θ(15°)	-5.4	-3.97	-4.4	-5.94	-4.79	-3.56	-3.37	-4.13	-4.5	-5.78	-4.77	-5.3	-4.72	-5.22	-5.78	-8.24	-7.76	-7.15	-7.76	-6.31	-7.05	-5.73	-5.3	-4.71
Θ(30°)	-4.9	-4.83	-4.64	-1.15	-1.52	-2.88	-1.59	-1.53	-1.7	-0.6	0.07	-1.55	-3.45	-5.21	-3.32	0.12	-0.1	-0.61	-1.66	-2.54	-1.45	-0.56	-0.09	-3.53
Θ(45°)	1.42	2.55	1.5	1.52	0.96	0.48	1.22	0.56	1.26	1.18	0.14	2.62	1.83	1.96	2.26	3.54	2.85	1.92	2.18	1.98	1.97	1.58	2.04	2.17
Θ(60°)	3.18	2.86	4.38	4.57	5.29	4.07	3.93	3.38	3.64	5.04	4.76	5.62	3.85	4.83	4.56	4.1	3.18	3.58	3.19	4.04	3.8	4.1	4.31	3.62
Θ(75°)	6.01	5.45	4.68	5.38	5.01	5.7	5.3	6.09	5.47	5.83	3.91	3.98	4.88	5.03	5.15	4.23	4.94	4.06	3.92	4.55	3.75	4.31	4.68	4.45
Θ(90°)	5.75	4.28	5.27	5.77	5.46	4.19	4.76	5.22	4.4	4.22	4.48	5.32	4.93	5.79	5.06	5.19	5.68	5.38	6.93	6.55	6.34	5.71	5.33	4.94
Θ(105°)	5.38	3.8	4.03	3.39	3.92	4.11	4.07	4.58	3.1	4.03	4.03	5.93	4.9	4.27	3.93	4.25	3.39	4.46	5.66	5.27	3.43	5.04	3	4.17
Θ(120°)	3.83	4.21	2.33	2.91	3.06	1.86	-0.37	1.28	1.35	3.07	1.69	0.35	2.78	2.07	2.2	2.31	0.17	2.25	1.49	1.67	1.24	0.83	1.94	1.73
Θ(135°)	0.82	-4.29	-1.17	0.45	0.12	-0.16	-0.52	-1.48	-2.27	-2.24	-0.19	-1.38	0.64	0.39	-2.09	0.49	-4.26	-2.13	1.21	2.08	-2.32	-2.23	-1.29	-1.08
Θ(150°)	-2.36	-1.25	-2.85	-2.22	-5.95	-3.84	-2.7	-1.96	-0.46	-1.25	-0.21	0.98	-0.35	-3.27	-4.12	-5.3	-4.21	-7.58	-9.24	-7.26	-4.33	-5.08	-3.97	-3.57
Θ(165°)	-6.47	-3.99	-3.82	-4.21	-4.9	-5.46	-5.55	-4.05	-4.28	-5.78	-6.83	-5.01	-5.5	-5.79	-5.35	-6.59	-8.34	-8.49	-9.7	-6.6	-8.1	-6.68	-7.39	-8.44
Θ(180°)	-7.85	-6.7	-8	-7.88	-7.17	-8.94	-9.04	-10.73	-8.37	-9.11	-9.02	-8.8	-7.53	-7.89	-6.84	-7.06	-7.65	-7.47	-7.03	-7.14	-10.47	-11.69	-11.34	-8.8
Freq(Hz)	5.3G	Pol.	Phi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dBi)	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-6.65	-6.82	-6.93	-6.9	-10.72	-12.26	-11.14	-14.02	-15.85	-14.61	-11.09	-9.35	-8.04	-6.53	-6.47	-7.09	-8.27	-10.67	-12.23	-17.83	-11.36	-11.87	-9.95	-9.79
Θ(15°)	-7.58	-9.39	-9.28	-8.07	-8.34	-8.99	-11.38	-11.95	-14.57	-13.28	-10.44	-6.38	-6.77	-9.2	-10.05	-11.1	-12.96	-12.58	-14.02	-14.31	-14.7	-8.71	-7.36	-6.5
Θ(30°)	-5.64	-9.71	-9.91	-13.16	-11.11	-10.4	-9.16	-13.36	-9.8	-7.82	-7.18	-6.98	-6.61	-7.4	-10.96	-8.43	-9.04	-10.24	-10.22	-11.13	-11.4	-11.11	-6.46	-4.15
Θ(45°)	-10.65	-9.34	-6.35	-6.94	-8.13	-8.63	-11.73	-13.58	-9.78	-7.53	-9.5	-8.55	-11.13	-8.36	-8.86	-7.51	-11.3	-14.43	-9.06	-9.86	-13.76	-11.31	-11.66	-9.79
Θ(60°)	-5.56	-13.11	-6.86	-11.5	-9.18	-9.28	-11.77	-8.81	-8.82	-11.36	-10.64	-10.39	-9.25	-6.88	-14.23	-14.62	-11.78	-9.86	-7.5	-9.76	-10.78	-11.62	-9.72	-14.91
Θ(75°)	-6.77	-8.31	-10.02	-11.73	-12.09	-11.08	-11.34	-12.14	-8.11	-8.73	-10.23	-8.25	-10.14	-7.26	-10.15	-9.44	-8.08	-10.3	-7.79	-15.79	-11.93	-9.17	-9.88	-10.97
Θ(90°)	-13.04	-10.66	-10.22	-9.12	-6.65	-9.58	-8.19	-12.96	-14.23	-9.69	-8.67	-7.54	-11.95	-8.64	-11.69	-13.28	-9.71	-8.96	-9.02	-13.72	-10.25	-8.89	-11.68	-11.98
Θ(105°)	-11.02	-9.55	-9.8	-11.8	-9.85	-11.31	-10.9	-13.11	-8.25	-6.3	-7.2	-11.66	-8.63	-11.97	-8.57	-9.97	-9.38	-11.21	-12.61	-12.2	-9.97	-10.04	-13.04	-10.94
Θ(120°)	-9.81	-10.94	-13.48	-10.36	-9.8	-13.03	-13.47	-11.84	-11.66	-7.68	-6.99	-11.45	-11.75	-11.98	-8.65	-8.51	-9.22	-17.2	-8.98	-13.61	-10.37	-11.82	-11.3	-11.22
Θ(135°)	-9.12	-10.07	-10.06	-11.09	-14.23	-9.46	-12.51	-9.38	-8.29	-7.02	-8.82	-10.85	-9.44	-10.27	-8.54	-8.4	-6.53	-9.25	-10.9	-14.75	-10.48	-12.82	-14.01	-12.67
Θ(150°)	-13.04	-9.74	-10.26	-11.41	-10.4	-10.44	-7.6	-7.27	-9.59	-5.76	-7.18	-8.83	-6.47	-8.36	-12.29	-7.93	-11.01	-10.37	-12.4	-10.83	-9.21	-9.72	-10.47	-8.98
Θ(165°)	-9.59	-10.26	-13.54	-14.4	-14.43	-12.19	-10.22	-8.81	-7.19	-6.57	-4.61	-5.85	-5.57	-9.13	-14.08	-15.68	-14.16	-14.04	-14.14	-8.25	-9.02	-11.25	-10.09	-8.74
Θ(180°)	-10.86	-10.24	-10.44	-10.4	-8.23	-8.86	-7.7	-8.29	-11.08	-13.23	-14.59	-12.09	-8.96	-10.41	-8.4	-7.17	-7	-7.78	-8.46	-7.67	-6.87	-6.9	-6.91	-9.24
Freq(Hz)	5.3G	Pol.	Theta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dBi)	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-13.32	-13.09	-14.56	-14.04	-11.57	-11.86	-11.19	-9.67	-9.75	-9.11	-10.51	-11.15	-15.25	-15.34	-14.51	-12.16	-11.34	-9.57	-8.32	-8.28	-8.98	-10.95	-11.25	-13.32
Θ(15°)	-5.83	-5.24	-4.98	-6.06	-5.35	-3.83	-3.23	-4.49	-5.04	-4.49	-4.65	-6.3	-7.47	-5.81	-5.61	-6.04	-8.05	-7.74	-6.76	-8.09	-8.25	-7.54	-4.38	-5.31
Θ(30°)	-0.47	-1.7	-2.96	-0.01	-0.04	-1.69	-1.25	0.48	-0.93	-0.15	0.26	-0.83	-0.44	-1.54	-2.59	-0.59	0.15	-0.74	-2.58	-0.32	-0.99	-0.71	-0.28	-1.91
Θ(45°)	2.36	2.36	2.43	2.04	2.35	1.01	3.37	2.5	1.19	1.6	1.85	2.85	1.59	1.74	3.67	3.98	3.43	1.97	2.91	0.9	0.97	1.51	2.19	1.39
Θ(60°)	3.5	3.95	4.26	3.61	4.66	4.8	3.08	3.03	4.96	4.56	4.56	4.91	4.92	5.48	4.28	3.59	3.72	3.63	4.45	2.64	3.46	4.02	3.18	4.01
Θ(75°)	5.37	5.54	3.86	5.03	4.42	5.11	5.24	5.39	4.89	5.14	4.3	3.8	5.29	5.01	4.31	4.68	5.36	3.71	3.41	3.74	3.76	3.7	4.57	4.32

Θ(165°)	-9.41	-5.37	-4.21	-3.64	-2.98	-4.28	-4.83	-4.62	-5.22	-4.58	-5.54	-6.62	-7.37	-6.69	-5.84	-7.54	-8.8	-10.82	-11.85	-8.76	-8.05	-7.68	-5.97	-7.74
Θ(180°)	-7.16	-8.9	-8.48	-9.41	-9.96	-8.99	-8.35	-8.05	-7.23	-7.21	-7.91	-7.26	-8.31	-8.88	-7.33	-7.77	-9.07	-7.42	-7.14	-7.6	-9.21	-9.74	-9.22	-7.64
Freq(Hz)	5.6G	Pol.	Phi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dBi)	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-8.65	-9.32	-7.84	-10.48	-9.45	-9.05	-10.74	-10.54	-11.56	-11.55	-9.18	-9.22	-8.94	-7.32	-7.35	-7.53	-8.6	-9.41	-9.12	-9.63	-10.41	-11.96	-11.56	-9.77
Θ(15°)	-7.55	-8.66	-11.11	-10.46	-9.34	-7.63	-9.9	-9.23	-15.14	-7.96	-10.66	-12.59	-8.26	-8.65	-9.5	-8.27	-8.55	-11.92	-10.27	-13.62	-14.61	-13.89	-10.01	-11.03
Θ(30°)	-5.66	-6.93	-9.25	-14.04	-10.62	-10.29	-8.55	-12.95	-9.65	-7.98	-5.35	-9.41	-9.74	-11.88	-8.15	-7.77	-10.1	-10.98	-11.79	-9.54	-10.23	-13.01	-9.08	-4.52
Θ(45°)	-8.93	-8.72	-8.56	-13.91	-6.03	-13.98	-13.07	-13.3	-6.92	-6.04	-10.34	-8.94	-9.96	-6.87	-13.37	-7.81	-8.05	-11.89	-6.98	-5.11	-10.66	-10.43	-6.82	-10.58
Θ(60°)	-9.28	-10.23	-7.93	-10.28	-7.47	-10.92	-6.48	-9.78	-7.31	-7.62	-10.46	-10.14	-8.32	-6.47	-10.8	-10.28	-4.93	-10.89	-6.26	-6.61	-8.28	-8.2	-7.87	-15.53
Θ(75°)	-5.57	-8.18	-9.95	-11.98	-10.48	-11.58	-11.48	-11.98	-9.4	-9.87	-12.6	-5.59	-7.4	-5.78	-10.46	-8.46	-8.65	-8	-7.05	-8.41	-7.43	-12.07	-8.1	-12.39
Θ(90°)	-10.99	-15.25	-11.12	-9.75	-6.28	-7.9	-5.62	-12.11	-9.07	-9.52	-9.52	-8.32	-7.21	-11.09	-12.73	-7.73	-14.16	-8.92	-12.26	-9.77	-11.45	-11.54	-8.16	-13.16
Θ(105°)	-13.47	-10.4	-13.63	-10.87	-11.78	-12.58	-10.61	-14.36	-8.48	-7.09	-7.43	-10.48	-8.08	-11.02	-12.64	-8.64	-10.33	-9.51	-12.8	-11.96	-11.53	-12.3	-14.64	-14.49
Θ(120°)	-9.14	-10.75	-12.39	-10.5	-10.13	-11.03	-16.37	-11.73	-5.46	-9.73	-5.74	-9.45	-8.07	-10.26	-11.7	-13.23	-8.49	-10.17	-7.29	-12.31	-12.62	-12.8	-8.84	-13.69
Θ(135°)	-12.71	-9.59	-11.79	-8.83	-12.36	-12.72	-14.92	-7.5	-6.47	-12.2	-5.66	-13.64	-12.66	-13.68	-11.98	-8.6	-6.62	-10.54	-11.13	-8.93	-8.47	-11.41	-9.45	-15.59
Θ(150°)	-7.86	-11.81	-12.55	-9.54	-11.11	-14.57	-11.14	-7.73	-8.17	-6.17	-4.59	-7.4	-7.17	-7.1	-12.54	-7.94	-14.37	-9.92	-10.55	-10.07	-9.71	-11.58	-11.39	-9.12
Θ(165°)	-10.87	-14.06	-14.26	-11.18	-14.03	-9.36	-8.31	-7.17	-7.36	-8.09	-5.24	-7.02	-10.68	-10.82	-11.79	-12.05	-11.94	-17.01	-9.08	-8.3	-7.65	-7.57	-12.56	-12.35
Θ(180°)	-11.24	-13.33	-10	-11.01	-10.68	-9.93	-11.76	-8.29	-7.98	-10.54	-13.93	-13.12	-15.21	-14.5	-10.07	-11.09	-12.86	-11.78	-8.81	-9.03	-6.8	-7.64	-7.49	-6.81
Freq(Hz)	5.6G	Pol.	Theta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dBi)	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-10.8	-10.24	-11.58	-12.37	-10.63	-8.36	-8.62	-8.24	-8.42	-8.26	-8.02	-9.8	-11.06	-10.21	-13.09	-13.89	-10.91	-9.22	-9.03	-8.59	-7.22	-7.92	-7.94	-10.02
Θ(15°)	-7.57	-7.24	-6.46	-4.87	-4.07	-3.39	-4.14	-5.67	-5.58	-5.82	-7.06	-3.97	-3.38	-2.96	-3.06	-3.93	-5.64	-5.93	-7.45	-6.39	-5.35	-7.79	-8.86	-8.96
Θ(30°)	-1.39	-0.07	-0.45	-3.37	-0.54	-0.34	-0.47	-0.34	-1.6	-3.96	0.49	0.42	-0.2	-0.19	-0.43	-0.84	0.46	-0.37	0.31	-0.64	-1.08	-2.37	-5.23	-1.14
Θ(45°)	3.02	3.45	1.94	3.48	2.19	2.49	3.23	3	1.22	2.64	3.55	2.19	3.31	2.67	3.77	3.37	2.85	2.47	2.56	1.56	1.53	2.99	2.85	3.69
Θ(60°)	3.68	3.3	3.65	3.97	4.01	3.67	4.27	3.18	4.76	3.56	3.34	4.78	4.45	5.04	4.24	3.7	3.06	3.77	3.02	3.73	4.03	3.48	3.61	3.22
Θ(75°)	5.45	4.96	4.9	4.38	4.34	4.77	5.03	4.51	5.39	4.85	6.27	4.98	4.56	4.87	4.38	4.28	4.24	2.74	3.76	4.11	3.22	4.17	3.46	3.86
Θ(90°)	5.32	4.81	4.28	3.9	5.91	4.76	3.34	3.75	4.86	4.47	5.24	5.07	4.97	4.18	4.78	4.46	6.4	6.26	5.54	6.55	6.02	5.81	4.86	4.72
Θ(105°)	4.9	4.31	2.96	3.79	3.43	3.29	3.48	2.69	4.17	4.37	4.84	5.07	4.55	4.83	3.97	3.66	4.5	4.67	5.23	5.81	3.56	2.43	2.38	3.44
Θ(120°)	3.06	3.2	5.43	2.74	2.43	1.58	2.33	1.34	1.55	0.87	3.57	1.71	2.52	0.13	0.91	3.81	2.23	3.62	1.75	3.27	-0.86	2.73	4.04	2.29
Θ(135°)	0.69	-1.05	-0.42	-1.41	-0.23	-0.03	-0.41	-1.71	-0.38	-1.38	-1.32	1.49	0.92	0.94	-0.15	-0.5	-0.62	-1.23	-2.47	0.92	-1.65	-1.63	0.24	0.96
Θ(150°)	-1.81	-1.3	-2.64	-1.11	-2.06	-1.78	-5.2	-4.21	-1.03	-0.49	-1.2	-0.45	-0.48	-0.76	-4.85	-3.54	-4.94	-9.06	-8.29	-2.65	-4.93	-7.52	-3.83	-1.56
Θ(165°)	-5.04	-2.99	-4.25	-3.45	-3.1	-3.03	-4.38	-5.62	-3.47	-3.54	-4.99	-6.08	-6.54	-7.29	-7.33	-10.79	-8.97	-7.75	-7.9	-8.73	-5.98	-4.24	-4.07	-5.17
Θ(180°)	-8.28	-9.96	-9.35	-9.41	-9.25	-9.06	-6.91	-7.11	-6.74	-7.93	-8.35	-9.33	-11.78	-9.85	-8.28	-7.99	-9.23	-5.55	-5.82	-6.52	-8.44	-9.41	-9.73	-8.12
Freq(Hz)	5.785G	Pol.	Phi	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dBi)	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-9.03	-7.32	-8.19	-8.87	-11.73	-11.48	-11.74	-11.56	-10.16	-9.34	-7.32	-6.12	-5.52	-6.31	-9.78	-9.44	-10.74	-10.44	-10.81	-10.75	-11.52	-8.82	-9.28	-7.48
Θ(15°)	-7.59	-6.74	-7.65	-9.84	-8.59	-9.13	-9.67	-10.59	-14.48	-11.62	-11.37	-11.57	-8.94	-8.2	-10.16	-7.73	-8.62	-11.86	-9.27	-8.09	-11.74	-12.64	-12.58	-8.83
Θ(30°)	-7.34	-6.72	-8.41	-11.4	-8.65	-8.26	-8.15	-9.85	-9.58	-6.47	-7.47	-9.76	-7.3	-8.77	-8.93	-8.91	-6.61	-7.47	-13.56	-10.21	-13.18	-12.2	-6.93	-7.13
Θ(45°)	-7.24	-9.84	-11.22	-9.13	-6.16	-10.92	-12.39	-14.82	-6.65	-4.74	-6.85	-9.05	-10.95	-7.78	-11.33	-6.65	-9.41	-9.46	-8.79	-5.97	-12.46	-8.25	-8.29	-8.24
Θ(60°)	-6.07	-17.13	-8.47	-10.4	-6.69	-11.27	-8.66	-7.79	-5.76	-8.86	-11.8	-8.18	-9.41	-8.29	-9.75	-8.77	-8.77	-11.51	-9.06	-6.33	-9.53	-8.2	-9.14	-12.13
Θ(75°)	-6.66	-8.66	-11.88	-12.89	-5.5	-9.55	-11.52	-16.79	-7.7	-10.4	-6.75	-7.84	-5.07	-7.71	-9.18	-8.67	-7.19	-7.82	-8.36	-7.56	-10.9	-11.9	-8.45	-12.05
Θ(90°)	-9.85	-9.94	-10.79	-13.2	-6.16	-5.66	-6.06	-8.01	-9.77	-8.34	-9.5	-8.84	-6.45	-9.38	-15.86	-5.81	-12.66	-8.5	-13.48	-11.17	-7.42	-15.23	-8.93	-10.31
Θ(105°)	-14.04	-9.43	-9.57	-12.74	-10.56	-13.61	-10.2	-11.26	-8.29	-8.88	-7.11	-8.02	-7.46	-11.01	-12.7	-9.87	-11.99	-10.02	-11.95	-8.84	-11.65	-16.77	-11.64	-14.06
Θ(120°)	-10.48	-8.62	-10.92	-12.1	-9.18	-11.45	-14.72	-7.86	-6.38	-7.01	-5.64	-9.63	-7.84	-12.39	-9.41	-11.03	-9.99	-8.72	-9.09	-8.56	-9.86	-8.49	-8.48	-12.22
Θ(135°)	-11.99	-7.41	-13.18	-8.98	-9.13	-11.81	-11.34	-5.66	-5.03	-9.64	-4.56	-8.98	-13.48	-13.92	-11.55	-8.02	-7.65	-9.02	-9.95	-8.21	-9.21	-12.75	-9.95	-19.74
Θ(150°)	-7.66	-12.53	-7.64	-10.21	-10.56	-9.05	-7.83	-8.29	-4.84	-5.83	-3.45	-3.92	-6.86	-5.85	-7.74	-8.2	-18.3	-6.69	-10.97	-8.04	-7.42	-7.84	-6.33	-9.54
Θ(165°)	-10.67	-15.58	-11.46	-13.75	-11.2	-10.24	-8.01	-8.29	-6.98	-5.14	-5.51	-5.87	-9.89	-10.81	-8.84	-13.15	-12.14	-17.89	-9.41	-7.14	-8.38	-9.39	-8.96	-10.96
Θ(180°)	-6.51	-10	-8.17	-11.22	-12.04	-10.1	-7.82	-7.13	-6.86	-8.95	-10.54	-9.94	-11.7	-11.07	-10.64	-12.55	-12.33	-9.59	-8.01	-6.83	-6.09	-5.14	-5.62	-6.04
Freq(Hz)	5.785G	Pol.	Theta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dBi)	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-12.03	-9.78	-10.2	-8.22	-9.58	-8.17	-7.1	-8.48	-8.94	-8.92	-10.78	-12.12	-12.63	-9.86	-9.02	-11.6	-11.49	-8.39	-9.19	-7.83	-8.9	-9.92	-10.32	-10.21
Θ(15°)	-10.68	-8.35	-6.32	-5.21	-4.87	-4.54	-5.11	-6.13	-6.96	-7.78	-8.7	-7.56	-7.33	-5.94	-5.24	-4.84	-2.92	-2.54	-5.37	-6.35	-5.54	-4.29	-4.52	-8.43
Θ(30°)	-2.29	-1.47	-1.42	-1.8	-3.61	-0.14	-2.07	-2.41	-1.46	-3.78	-1.97	-0.5	-0.19	0.79	-2.47	-0.28	-0.9	-0.89	0.97	-1.63	-2.36	-1.97	-2.89	-1.87
Θ(45°)	1.2	1.88	2.44	2.3	1.5	1.08	1.92	2.95	1.44	2.49	5.07	2.72	3.13	2.07	3.83	3.53	2.77	2.44	1.88	1.18	2.07	3.1	2.8	4.19
Θ(60°)	3.35	3.56	4.1	3.15																				



Radiated Composite Gain

Appendix A

$\Theta(150^\circ)$	-0.25	-1.33	-0.5	-0.15	-0.96	-1.45	-3.02	-3.67	0.86	0.26	0.81	1.08	1.3	0.98	-1.85	-3.7	-5.53	-5.4	-6.57	-3.06	-5.54	-4.7	-2.42	-0.8
$\Theta(165^\circ)$	-2.84	-2.54	-1.29	-1.54	-2.32	-2.39	-3.36	-3.8	-2.15	-2.28	-3.92	-4.15	-2.7	-4.67	-4.9	-8.04	-8.01	-8.87	-6.24	-6.42	-5.75	-6.09	-4.48	-3.66
$\Theta(180^\circ)$	-7.68	-7.62	-6.27	-6.36	-6.85	-6.71	-5.64	-5.89	-5.06	-7.01	-8.1	-7.54	-9.03	-6.89	-5.68	-7.44	-8.18	-5.96	-5.02	-6.11	-6.44	-8.11	-11.5	-7.31

Gain Result

Freq(Hz)	5.2G	Pol.	Phi	Ant. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-26.97	-21.51	-15.35	-15.2	-20.34	-14.78	-15.86	-19.02	-19.1	-27.14	-28.99	-26.24	-15.24	-19.34	-19.17	-18.52	-18.18	-13.36	-21.02	-15.33	-27.25	-17.97	-27.2	-20.92
Θ(15°)	-18.73	-19.95	-17.58	-20.6	-21.68	-20.69	-20.02	-17.62	-19.62	-19.92	-16.81	-15.64	-13.33	-11.91	-10.46	-12.17	-18.63	-20.55	-22.8	-32.14	-21.12	-19.88	-17.62	-15.61
Θ(30°)	-23.16	-19.47	-15.16	-21.41	-16.22	-15.88	-21.54	-19.63	-20.81	-26.91	-16.16	-16.12	-17.46	-20.81	-14.44	-13.23	-11.38	-17.78	-27.47	-16.73	-19.93	-25.63	-18.11	-15.03
Θ(45°)	-15.03	-19.38	-12.52	-16.15	-15.25	-9.32	-19.4	-21.41	-20.62	-18.2	-29.56	-27.59	-29.2	-16.25	-13.23	-9.81	-20.8	-13.86	-12.93	-18.05	-12.98	-11.23	-13.36	-22.01
Θ(60°)	-11.37	-18.09	-10.64	-15.55	-20.65	-16.19	-19.12	-19.4	-32.07	-21.16	-20.66	-17.24	-21.19	-16.96	-16.1	-15.82	-15.79	-18.48	-14.28	-20.74	-11.79	-10.58	-17.87	-21.08
Θ(75°)	-19.18	-13.29	-12.61	-29.81	-23.62	-23.29	-13.91	-19.08	-17.22	-17.44	-19.57	-44.1	-17.15	-33.7	-20.93	-12.56	-10.15	-12.69	-10.74	-15.26	-14.8	-16.97	-30.62	-23.63
Θ(90°)	-22.67	-21.18	-14.27	-26.33	-20.75	-18.28	-16.03	-22.41	-31.8	-16.43	-20.16	-22.21	-26.44	-24.36	-16.08	-24.25	-15.09	-11.78	-16.01	-27.22	-12.51	-14.17	-17.68	-20.11
Θ(105°)	-32.86	-21.38	-19.18	-28.93	-14.14	-34.18	-14.84	-20.14	-19.71	-12.47	-16.36	-16.44	-19.71	-25.05	-11.38	-12.6	-19.49	-15.89	-17.21	-28.8	-21.77	-19.41	-15.24	-24.06
Θ(120°)	-20.51	-28.64	-15.17	-32.41	-15.25	-41.49	-16.83	-16.21	-19.15	-15.84	-12.72	-18.29	-16.32	-20.48	-16.6	-12.94	-18.44	-13.32	-10.5	-16.81	-17.44	-17.67	-13.6	-33.78
Θ(135°)	-16.82	-18.8	-22.74	-13.33	-16.12	-21.59	-14.13	-18.32	-16.52	-17.55	-17.53	-29.08	-14.64	-20.44	-23.07	-21.24	-12.82	-29.3	-15.84	-11	-12.8	-29.18	-18.54	-22.56
Θ(150°)	-29.63	-28.05	-15.35	-17.15	-16.13	-25.45	-12.22	-12.09	-8.77	-17.59	-18.46	-17.45	-24.13	-25.22	-19.35	-20.74	-18.88	-21.28	-17.12	-14.69	-13.86	-32.72	-14.88	-15.39
Θ(165°)	-12.9	-16.41	-19.61	-35.34	-29.64	-29.95	-18.4	-21.79	-14.55	-15.78	-10.72	-11.44	-13.74	-13.21	-14.98	-19.21	-31.16	-30.93	-17.18	-15.44	-17.57	-14.51	-14.53	-21.25
Θ(180°)	-18.72	-19.15	-23.41	-17.53	-22.57	-16.89	-14.95	-20.78	-18.42	-18.64	-16.7	-31.97	-25.26	-15.86	-16.94	-21.33	-14.65	-15.09	-14.57	-19.53	-20.01	-17.11	-15.74	-18.46
Freq(Hz)	5.2G	Pol.	Theta	Ant. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-21.77	-16.91	-17.61	-19.86	-25.62	-26.39	-37.08	-22.28	-22.15	-17.18	-16.98	-17.95	-16.25	-19.33	-21.27	-18.29	-20.46	-30.25	-25.07	-18.81	-19.51	-22.74	-18.67	-19.19
Θ(15°)	-13.5	-11.25	-9.84	-9.84	-10.3	-9.4	-8.75	-10.31	-10.19	-13.33	-11.69	-20.47	-19.77	-16.54	-16.84	-26.29	-15.27	-10.04	-12.18	-10.07	-10.83	-9.96	-9.86	-11.13
Θ(30°)	-14.02	-10.43	-12.71	-4.76	-4.87	-8.09	-8.58	-9.6	-10.75	-7.36	-6.52	-7.65	-11.1	-14.09	-10	-5.45	-2.91	-4	-6.71	-7.23	-6.24	-7.72	-6.27	-13.25
Θ(45°)	-2.08	-1.16	-3.09	-4.87	-4.09	-6.79	-10.17	-10.26	-9.38	-6.8	-6.62	-5.49	-5.47	-5.58	-1.98	-2.5	-4.84	-4.79	-3.54	-2.6	-3.93	-2.21	-5.36	-1.71
Θ(60°)	-3.17	-3.68	-1.21	-0.59	-0.27	-1.51	-1.91	-1.93	-4.1	-2.01	-1.29	-2.55	-4.12	-1.6	-1.26	-1.71	-0.63	-0.41	-1.38	0.75	-0.13	-1.03	1.38	-1.6
Θ(75°)	0.49	0.23	0.81	-0.99	-0.73	-2.06	-0.63	0.15	-2.03	1	-0.75	-1.52	-1.67	-0.69	0.85	0.44	-0.66	-1.58	-3.33	-3.42	-3.67	-1.87	-2.81	-1.55
Θ(90°)	0.51	-1.25	0.78	0.15	-1.08	0.33	-0.77	2.13	-0.09	0.03	-0.18	0.43	-0.65	0.84	0.83	0.62	-1.47	-0.65	0.65	0.28	2.34	-0.48	-0.5	-0.85
Θ(105°)	1.65	-1.21	-2.96	-1.55	-1.4	-2.7	-0.28	-1.17	-3.65	-1.55	-1.93	1.41	-3.28	0.24	-0.91	-1.8	-2.9	-0.28	1.63	-0.73	-1.07	-3.29	-0.86	-2.72
Θ(120°)	-2.73	-3.05	-3.28	-3.13	0.56	-0.14	-1.7	-4.78	-0.02	-0.51	-5.67	-0.36	-1.97	-0.95	0.38	0.56	-11.1	-2.06	-3.52	-5.69	-2.83	-31.74	-5.12	-5.9
Θ(135°)	-6.94	-8.1	-4.85	-5.87	-5.68	-8.5	-5.54	-5.78	-6.38	-5.17	-4.1	-8.98	-7.82	-5.05	-5.96	-4.95	-12.8	-12.78	-5.11	-6.28	-7.34	-5.23	-6.09	-11.7
Θ(150°)	-8.67	-5.34	-7.95	-6.62	-7.95	-6.14	-5.83	-4.71	-6.93	-9.69	-7.73	-4.19	-6.91	-9.55	-9.4	-13.31	-8.22	-10.98	-14.63	-7.5	-12.97	-10.48	-23.39	-11.9
Θ(165°)	-10.85	-11.58	-11.05	-10.67	-11.36	-10.66	-9.79	-9.17	-9.38	-10.94	-12.47	-10.81	-11.22	-12.88	-12.84	-14.31	-12.64	-10.45	-14.25	-15.53	-14.71	-14.45	-12.34	-17.62
Θ(180°)	-16.91	-14.53	-13.7	-16.43	-15.54	-19.18	-23.55	-23.79	-17.06	-24.75	-27.94	-17.6	-13.77	-15.88	-21.92	-39.82	-26.55	-16.45	-12.82	-16.82	-29.44	-30.88	-21.37	-19.45
Freq(Hz)	5.3G	Pol.	Phi	Ant. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-15.55	-12.69	-12.3	-12.46	-15.29	-19.01	-15.96	-17.12	-22.34	-36.84	-23.53	-19.92	-17.3	-15.19	-12.72	-12.77	-10.58	-20.5	-16.85	-23.83	-22.22	-28.93	-21.36	-27.84
Θ(15°)	-19.01	-16.95	-20.37	-19.92	-18.39	-18.2	-17.34	-20.5	-20.88	-19.01	-20.11	-15.82	-12.93	-13.55	-10.97	-11.66	-14.6	-19.38	-31.72	-17.07	-24.03	-15.44	-19.07	-15.7
Θ(30°)	-16.79	-23.15	-17.83	-29.15	-21.62	-16.74	-18.3	-22.27	-21.37	-22.02	-18.87	-17.76	-18.15	-15.72	-12.15	-12.73	-13.86	-27.04	-18.06	-16.9	-20.93	-20.63	-14.99	-16.51
Θ(45°)	-15.26	-14.69	-15.91	-17.63	-17.05	-10.86	-16.5	-31.09	-20.25	-18.58	-27.15	-22.33	-22.01	-15.27	-14.22	-8.27	-15.41	-16.3	-12	-16.87	-16.95	-10.73	-10.59	-18.23
Θ(60°)	-9.48	-16.23	-10.44	-19.64	-17.14	-13.03	-21.65	-14.3	-22.31	-31.93	-23.05	-17	-13.4	-17.51	-19.31	-14.59	-18.1	-16.95	-16.85	-17.31	-11.79	-11.79	-14.24	-40.82
Θ(75°)	-13.71	-19.49	-11.84	-19.37	-21.33	-24.15	-14.05	-22.06	-29.48	-17.3	-14.92	-44.85	-17.38	-24.73	-18.12	-25.52	-12.32	-19.57	-9.81	-21.75	-15.72	-17	-21.62	-23.57
Θ(90°)	-25.44	-18.24	-13.08	-16.2	-19.72	-15.8	-13.97	-19.78	-19.91	-13.77	-17.01	-17.39	-21.7	-19.76	-18.45	-19.92	-12.54	-11.18	-19.52	-21.28	-12.76	-13.55	-20.92	-14.17
Θ(105°)	-23.31	-23.08	-17.84	-26.71	-14.97	-18.53	-12.32	-16.22	-19.17	-12.64	-15.28	-30.65	-15.58	-21.59	-10.08	-11.11	-13.41	-13.75	-27.55	-35.74	-21.68	-18.42	-20.55	-23.54
Θ(120°)	-17.74	-29.21	-17.08	-16.09	-11.65	-31.03	-20.69	-14.93	-19.56	-12.08	-10.51	-25.97	-20.78	-22.45	-18.03	-15.02	-11.3	-20.68	-11.3	-17.64	-19.05	-14.28	-14.17	-37.09
Θ(135°)	-15.5	-21.19	-23.69	-13.06	-18.65	-16.22	-17.62	-17.88	-18.31	-16.7	-12.49	-20.25	-14.09	-22.95	-17.16	-25.66	-9.91	-21.19	-13.34	-13.96	-11.7	-23.3	-23.5	-22.6
Θ(150°)	-24.65	-16.48	-14.44	-15.16	-14.77	-22.96	-14.86	-10.76	-12.51	-13.41	-17.98	-18.92	-17.72	-23.36	-24.74	-21.41	-18.98	-21.12	-17.2	-20.09	-14.52	-20.69	-12.58	-14.41
Θ(165°)	-23.28	-16.99	-19.46	-23.71	-23.4	-29.56	-17.39	-13.9	-16	-15.8	-12.12	-12.81	-11.95	-14.4	-16.29	-27.35	-21.64	-18.21	-36.98	-16.49	-13.12	-21.21	-17.66	-16.83
Θ(180°)	-16.7	-17.56	-18.62	-15.9	-12.26	-15.23	-16.54	-14.93	-16.79	-17.08	-20.48	-17.14	-19.41	-21.1	-20.17	-16.14	-15.8	-17.54	-15.35	-13.67	-18.37	-14.96	-13.73	-13.33
Freq(Hz)	5.3G	Pol.	Theta	Ant. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-19.22	-21.58	-23.66	-24.4	-20.64	-25.63	-33.07	-21.71	-16.73	-18.85	-18.5	-17.02	-20.92	-20.5	-26.61	-23.23	-27.49	-21.21	-22.51	-18.79	-19.13	-16.92	-22.97	-19.34
Θ(15°)	-9.79	-11.08	-9.6	-9.46	-8.48	-7.91	-7.84	-9.78	-10.84	-10.9	-11.79	-14.36	-26.62	-14.62	-15.51	-18.25	-21.32	-22.99	-16.51	-12.17	-11.17	-11.6	-13.72	-12.08
Θ(30°)	-9.07	-9.61	-4.99	-2.5	-5.79	-7.87	-6.87	-5.32	-5.86	-7.75	-5.76	-5.44	-8.44	-10.36	-20.98	-6.3	-1.48	-2.91	-11.29	-7.87	-7.5	-6.07	-12.82	-19.71
Θ(45°)	-1.96	-2.38	-5.91	-6.3	-3.37	-8.31	-4.76	-4.35	-4.33	-7.8	-6.2	-4.47	-7.02	-5.27	-2.02	-2.39	-3.79	-5	-3.38	-3.18	-3.72	-4.23	-3.87	-1.5
Θ(60°)																								

Θ(60°)	-17.37	-18.33	-12.51	-18.38	-25.15	-13.65	-10.87	-20.75	-15.51	-20.28	-27.4	-20.72	-18.03	-18.74	-17.32	-13.91	-11.54	-20.1	-15.49	-12.69	-11.85	-10.83	-12.68	-27.72
Θ(75°)	-15.47	-19.26	-13.97	-18.99	-24.58	-13.95	-14.46	-23.51	-33.44	-20.91	-27.07	-17.79	-17.16	-21.43	-24.1	-14.23	-10.68	-20.19	-13.41	-13.25	-10.43	-18.17	-21.83	-39.19
Θ(90°)	-20.34	-24.11	-18.64	-18.58	-17.87	-13.11	-13.9	-17.22	-17.92	-16.35	-18.53	-13.31	-20.42	-20.57	-21.22	-13.44	-22.01	-14.22	-14.94	-16.65	-17.74	-17.55	-14.41	-14.64
Θ(105°)	-18.92	-19.08	-22.28	-20	-20.07	-14.98	-13.02	-21.87	-15.6	-16.35	-22.82	-15.58	-15.33	-18.32	-14.84	-10.16	-16.12	-10.7	-19.85	-24.76	-25.52	-21.71	-23.69	-20.91
Θ(120°)	-19.94	-24.57	-15.86	-20.05	-18.95	-24.22	-16.72	-24.03	-12.22	-22.92	-11.67	-13.95	-12.77	-23.73	-26.33	-25.79	-11.02	-14.33	-8.87	-18.23	-22.18	-15.77	-14.99	-20.08
Θ(135°)	-18.46	-37.52	-18.05	-16.46	-23.39	-18.28	-18.29	-15.91	-16.62	-18.46	-12.31	-16.64	-28.05	-36.09	-14.79	-15.61	-9.84	-16.03	-14.94	-13.13	-10.42	-17.4	-13.77	-23.99
Θ(150°)	-12.27	-18.6	-17.95	-13.11	-15.68	-30.13	-21.92	-18.69	-19.68	-14.6	-13.33	-16.69	-16.39	-21.18	-22.04	-20.05	-14.66	-15.49	-16.96	-34.82	-23.91	-29.51	-16.54	-17.36
Θ(165°)	-12.53	-18.52	-17.45	-22.2	-27.44	-20.98	-15.05	-15.87	-16.96	-26.95	-15.96	-21.96	-24.58	-25.77	-20.46	-15.83	-23.87	-14.92	-24.43	-17.36	-20.9	-30.85	-21.69	
Θ(180°)	-19.25	-21.46	-14.28	-15.5	-18.1	-17.38	-19.16	-19.82	-13.45	-16.53	-14.92	-18.28	-22.4	-21.41	-23.49	-25.65	-27.56	-18.42	-17.19	-18.01	-14.07	-23.96	-14.41	-14.03
Freq(Hz)	5.6G	Pol.	Theta	Ant. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-20.41	-14.57	-15.92	-16.66	-14.69	-14.67	-16.3	-14.51	-19.37	-14.55	-17.24	-15.81	-18.62	-17.45	-18.91	-25.17	-16.59	-18.28	-15.61	-19.99	-16.62	-16.52	-15.62	-15.28
Θ(15°)	-13.46	-14.36	-16.06	-15.24	-13.53	-14.42	-18.5	-19.34	-16.37	-15.5	-14.55	-12.69	-11.57	-11.54	-9.81	-9.55	-12.09	-19.81	-22.79	-18.42	-13.25	-15.53	-11.46	-11.06
Θ(30°)	-6.95	-7.49	-5.75	-6.19	-6.76	-10.33	-8.18	-6.06	-8.02	-7.53	-6.62	-7.74	-6.43	-5.15	-4.98	-11.17	-12.28	-7.48	-5.46	-10.31	-11.74	-10.98	-9.16	-7.62
Θ(45°)	-0.89	-1.87	-4.42	-1.83	-2.93	-1.32	-1.45	-0.74	-0.89	-1.6	-4.06	-3.71	-3.41	-1.71	-2.83	-1.08	-1.93	-5.01	-2.55	-5.41	-2.39	-4.03	-2.62	0.96
Θ(60°)	-2.1	-2.53	0.3	-2.7	-2.39	-4.59	-2.3	-1.77	-1.5	-3.5	-3.68	-4.32	-0.32	-2.03	-1.48	-2.31	-2.82	-2.29	-2.89	0.09	-2.12	-1.55	-1.61	-2.65
Θ(75°)	-0.57	-2.39	-1.74	-0.85	0.01	0.44	-0.23	-1.06	0.69	-1.42	0.93	0.45	0.21	0.27	0.99	-0.61	0.68	-3.84	-3.93	-2.57	-3.74	-2.64	-2.84	-2.68
Θ(90°)	-3.88	-0.34	-0.01	-2.32	0.83	-2.82	-3.96	-3.15	-2.01	-2.38	-2.25	-0.19	-0.3	-0.13	-0.94	-1.83	-0.21	-0.01	2.21	-0.39	1.51	-1.27	1.02	1.05
Θ(105°)	-0.38	-0.59	-3.88	-2.12	-3.42	-3.28	-1.12	-0.36	-0.13	-0.92	-0.71	-2.1	-1.08	0.61	-0.45	-3.99	0.65	-2.81	2.93	-0.28	0.45	-3.72	-3.63	-3.57
Θ(120°)	-4.13	-1.79	-0.16	-1.83	-0.73	-2.02	-1.07	-4	-3.12	-4.23	-0.96	-2.32	-1.78	-6.67	-3.8	0.6	-3.92	-0.5	-0.61	-10.94	-8.35	-7.15	-1.82	-3.57
Θ(135°)	-5.78	-5.01	-6.17	-6.94	-10.07	-3.79	-2.78	-4.97	-1.81	-7.03	-6.22	-2.66	-4.97	-4.19	-3.91	-4.3	-15.51	-10.35	-6	-6.33	-7.15	-6.35	-7.58	-8.78
Θ(150°)	-9.38	-9.3	-5.32	-4.69	-5.45	-5.64	-9.05	-10.74	-8.33	-7.09	-7.82	-9.99	-8.11	-5.22	-9.62	-7.78	-8.35	-8.62	-11.77	-10.51	-10.64	-12.49	-22.32	-12.39
Θ(165°)	-12.34	-8.04	-8.39	-7.74	-7.41	-9.81	-8.61	-9.51	-6.58	-7.26	-7.25	-6.49	-8.14	-11.4	-11.87	-14.36	-12.82	-14.12	-15.47	-17.48	-13.88	-15.79	-14.51	-15.17
Θ(180°)	-16.32	-17.68	-18.21	-21	-19.14	-16.74	-12.86	-16.31	-16.08	-15.73	-15.58	-12.73	-16.36	-16.39	-17.51	-22.41	-16.5	-9.84	-9.21	-11.52	-14.3	-14.72	-14.56	-17.26
Freq(Hz)	5.785G	Pol.	Phi	Ant. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-19.31	-17.29	-22.86	-28.22	-20.75	-18.38	-16.89	-14.4	-11.41	-13.54	-15.03	-12.47	-14.82	-21.61	-24.23	-29.5	-16.43	-15.16	-17.91	-11.34	-12.42	-14.28	-14.99	-17.31
Θ(15°)	-16.96	-15.83	-16.94	-14.12	-13.94	-12.43	-16.97	-14.36	-24.38	-17.29	-20.76	-19.44	-20.15	-19.44	-18.05	-12.56	-15.55	-20.86	-21.58	-12.49	-16.85	-31.99	-34.79	-20.77
Θ(30°)	-20.51	-26.52	-17.99	-21.94	-21.24	-19.36	-12.26	-13.87	-16.89	-15.27	-13.45	-18.14	-18.35	-16.67	-17.8	-15.92	-20	-14.88	-21.64	-18.61	-20.24	-16.22	-11.1	-13.65
Θ(45°)	-12.53	-20.05	-21.94	-15.17	-13.85	-17.41	-24.58	-23.45	-22.43	-24.49	-18.81	-16.95	-20.68	-22.64	-9.66	-11.98	-13.68	-26.89	-10.99	-17.2	-11.18	-8.33	-12.2	-22.14
Θ(60°)	-11.85	-25.14	-17	-19.97	-17.11	-13.43	-11.92	-15.43	-15.96	-18.41	-35.99	-18.32	-21.47	-29.1	-20.86	-12.52	-16.08	-14.63	-11.12	-11.14	-12.32	-10.54	-10.12	-26.24
Θ(75°)	-13.21	-15.4	-20.13	-21.84	-13.53	-10.74	-14.21	-25.41	-27.5	-21.74	-16.32	-20.07	-14.04	-18.36	-23.2	-26.61	-11.92	-13.82	-11.32	-11.71	-13.61	-16.87	-36.79	-19.32
Θ(90°)	-23.28	-13.01	-19.58	-18.26	-19.74	-12.67	-14.82	-15.36	-16.41	-17.04	-17.69	-12.82	-15.54	-18.01	-17.15	-13.75	-17.44	-16.39	-14.68	-15.07	-13.31	-15.49	-14.5	-20.86
Θ(105°)	-19.96	-19.85	-24.13	-20.02	-17.67	-28.23	-16.49	-14.95	-17.5	-14.02	-19.4	-12.87	-17.23	-14.26	-19.65	-11.61	-20.66	-8.76	-18.99	-18.52	-23.47	-20.51	-21.67	-22.48
Θ(120°)	-18.38	-18.15	-12.83	-15.94	-17.87	-23.18	-18.04	-18.62	-14.54	-12.42	-15.86	-11.17	-16.87	-16.93	-13.97	-20.92	-15.85	-12.31	-8.7	-11.89	-17.29	-9.4	-15	-17.63
Θ(135°)	-24.47	-28.57	-25.34	-12.66	-15.03	-17.53	-16.11	-15.61	-15.64	-14.79	-14.84	-13.22	-29.01	-36.88	-14.97	-13.39	-12.07	-10.47	-17.28	-15.34	-10.26	-20.14	-14.44	-20.92
Θ(150°)	-13.16	-20.55	-13.46	-14.73	-25.88	-17.94	-14.68	-16.83	-16.77	-18.07	-12.77	-10.71	-17.86	-15.8	-17.11	-18.1	-19.39	-10.5	-15.73	-20.81	-18.69	-22.87	-15.24	-15.26
Θ(165°)	-18.51	-30.45	-20.88	-28.55	-20.18	-16.85	-14.75	-17.98	-16	-14.59	-20.77	-16.29	-21.32	-22.86	-17.12	-17.89	-13.82	-17.28	-20.03	-30.21	-18.84	-14.58	-21.01	-22.88
Θ(180°)	-12.31	-10.59	-11.04	-11.62	-13.76	-14.89	-17.25	-15.12	-13.15	-13.4	-14.74	-12.43	-15.04	-15.68	-15.85	-21.15	-16.97	-17.14	-13.3	-12.82	-14.56	-11.6	-12.5	-12.11
Freq(Hz)	5.785G	Pol.	Theta	Ant. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-17.97	-14.38	-12.27	-12.66	-17.03	-17.64	-18.09	-19.9	-22.97	-28.28	-24.7	-21.1	-15.16	-13.22	-13.02	-17.75	-18.86	-14.83	-22.26	-25.92	-30.61	-19.97	-17.85	-16.85
Θ(15°)	-13.43	-11.91	-13.63	-13.28	-19.76	-16.57	-14.67	-11.87	-13.17	-18.39	-21.3	-12.89	-13.38	-17.33	-11.23	-9.68	-7.26	-7.38	-10.48	-17.78	-22.02	-11.83	-14.57	-13.99
Θ(30°)	-4.49	-5.74	-9.7	-9.43	-12.77	-6.71	-7.85	-7.59	-8.61	-7.36	-7.51	-11.07	-9.54	-6.85	-9.18	-6.32	-16.54	-13.94	-7	-4.1	-6.37	-9.61	-7.39	-7.57
Θ(45°)	-2.52	-4.44	-1.81	-1.96	-3.01	-2.05	-1.87	-3.11	-2.81	-1.36	-2.89	-6.59	-5.37	-4.17	-3.75	-1.45	0.43	-3.32	-3.42	-3.02	-2.5	-1.7	-0.83	1.41
Θ(60°)	-2.28	-1.74	0.13	-5.64	-3.2	-4.91	-2.3	-2.95	-0.93	-2.17	-3.84	-4.88	-2.47	-1.91	-0.79	-2.42	-6.62	-1.54	-1.19	-0.29	-3.14	-1.33	-2.08	-3.25
Θ(75°)	-2.65	-0.45	-2.2	-1.74	-1.7	-0.79	-1.98	-0.22	1.88	-0.94	2.02	-3.16	0.19	-1.17	0.52	-0.76	0.5	-2.08	-4.44	-1.59	-2.23	-3.5	-4.13	-4.12
Θ(90°)	-2.73	1.57	0.72	-4.9	0.14	-2.01	-3.11	-2.32	-2.34	-3.72	-0.08	0.19	-2.1	0.17	-2	-2.68	-2.9	-0.51	-0.08	0.07	0.67	0.52	0.95	0.14
Θ(105°)	-0.89	-0.58	-3.4	-2.48	-2.46	-3.68	-2.57	-0.96	0.11	-0.57	-0.21	-0.3	-1.47	1.24	0.61	-2.16	-1.27	-3.23	2.31	-0.76	0.58	-3.94	-6.56	-4.38
Θ(120°)	-5.64	-2.89	-0.57	-1.39	-1.2	0.13	-0.23	-0.32	-3.86	-3.38	-2.92	-2.55	-5.89	-3.15	-1.07	-2.54	-3.65	-2.04	-1.5	-6.43	-7.26	-4.99	-2.24	-6.63
Θ(135°)	-4.6	-5.16	-4.44	-6.16	-8.76	-3.54	-1.7	-4.89	-3.11	-3.72	-6.57	-1.73	-4.78	-4.35	-3.31	-3.05	-11.05	-14.17	-6.76	-3.26	-6.75	-5.81	-9.66	-6.92
Θ(150°)	-6.82	-7.74	-2.73	-3.22	-3.38	-5.66	-6.13																	

Θ(165°)	-8.48	-10.14	-15.8	-15.46	-12.42	-9.45	-8.22	-7.34	-5.85	-6.71	-8.58	-11.93	-18.49	-26.08	-24.34	-20.24	-19.12	-18.8	-18.78	-11.11	-12.08	-9.57	-11.41	-9.68
Θ(180°)	-13.65	-17.19	-15.28	-19.38	-19.28	-12.19	-14.01	-10.2	-12.69	-14.47	-19.25	-18.64	-35.93	-14.56	-13.78	-11.13	-12.09	-11.8	-9.83	-9.39	-7.64	-7.71	-8.72	-11.49
Freq(Hz)	5.2G	Pol.	Theta	Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-15.31	-20.39	-18.65	-15.23	-17.63	-17.07	-14.67	-16.21	-16.29	-14.57	-16.51	-18.2	-16.84	-16.51	-25.88	-20.98	-13.62	-14.88	-11.39	-15.66	-13.4	-13.15	-18.22	-14.92
Θ(15°)	-11.72	-13	-15.73	-19.85	-17.9	-12.98	-14.64	-16.3	-13.97	-33.24	-13.43	-11.2	-8.58	-7.86	-7.52	-9.32	-10.92	-9.87	-10.64	-10.32	-11.98	-10.07	-9.15	-11
Θ(30°)	-14.65	-7.67	-8.94	-9.58	-11.37	-11.8	-9.69	-11.97	-18.73	-7.88	-5.31	-7.16	-13.01	-13.84	-16.07	-11.19	-13.18	-8.39	-7.16	-9.02	-6.18	-5.51	-4.86	-6.15
Θ(45°)	-7.99	-5.12	-7.3	-6.69	-6.44	-6.34	-4.51	-8.7	-4.56	-3.38	-10.58	-4.82	-6.82	-5.05	-3.81	-4.03	-0.53	-2.46	-3.54	-4.78	-5.28	-7.37	-3.55	-3.27
Θ(60°)	-2.49	-1.81	-2.81	-4	-3.45	-2.85	-5.1	-2.81	-2.18	-1.93	0.44	1.76	-0.46	0.13	0.06	-1.05	-1.22	-3.05	-1.27	-0.36	-0.39	0.46	-4.57	-2.93
Θ(75°)	-0.02	-1.59	-1.01	0.36	-1.14	0.19	-1.18	-0.43	-1.28	0.17	-4.02	-5.3	-2.5	-2.32	-3.24	-4.8	-0.93	-4.31	-3.37	-1.39	-3.19	-2.24	-0.91	-1.16
Θ(90°)	-1.52	-0.25	0	0.3	-1.5	-1.9	-2.67	-0.84	-3.17	-1.45	-1.68	0.01	0.62	0.01	-0.92	-3.29	0.37	0.13	2.21	-2.64	-0.68	-0.55	-1.38	-0.42
Θ(105°)	-0.87	-3.88	-0.93	-2.12	-5.29	-0.79	-1.49	0.32	-4.23	-2.05	-1.75	-1.18	-0.4	0.48	-4.43	-4.56	-2.05	-0.64	-1.02	-2.04	-5.85	-2.74	-3.77	-2.07
Θ(120°)	-2.11	-0.63	-0.41	-4.22	-1.32	-2.44	-6.34	1.06	-2.1	1.09	-0.4	-8.16	-5.9	-6.79	-14.3	-3.3	-5.57	-5.5	-2.01	-7.69	-6.67	-2.67	-3.28	-5.92
Θ(135°)	-3.2	-8.45	-5.15	-3.08	-1.93	-2.36	-5.39	-4.11	-7.34	-7.67	-6.45	-2.1	-2.57	-2.29	-4.33	-3.24	-7.1	-10.73	-4.01	-7.14	-13.52	-10.87	-9.07	-4.19
Θ(150°)	-5.79	-5.09	-6.2	-7.48	-16.82	-10.62	-5.41	-2.34	-2.14	-5.59	-2.82	0.37	-2.25	-10.67	-9.12	-12.4	-23.41	-16.77	-14.91	-19.11	-14.83	-10.51	-6.65	-9.36
Θ(165°)	-10.67	-8.14	-9.91	-10.6	-8.23	-7.92	-7.22	-6.2	-6.73	-8.52	-10.58	-8.8	-7.74	-7.2	-9.1	-12.8	-18.48	-13.92	-11.63	-10.81	-20.6	-20.29	-21.19	-13.87
Θ(180°)	-8.3	-8.06	-9.03	-7.96	-9.15	-10.81	-9.39	-13	-11.49	-11.34	-11.91	-15.57	-14.68	-15.26	-9.83	-7.85	-7.13	-10.69	-11.92	-12.12	-15.86	-19.97	-13.87	-10.72
Freq(Hz)	5.3G	Pol.	Phi	Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-13.75	-12.79	-12.36	-13.73	-21.97	-16.33	-22.32	-31.14	-21.19	-16.86	-16.31	-15.7	-13.4	-10.69	-11.37	-11.96	-17.25	-22.24	-20.47	-30.87	-16.41	-16.12	-15.25	-13.15
Θ(15°)	-13.79	-17.3	-17.03	-16.69	-17.79	-20.05	-21.83	-21.61	-24.44	-18.79	-10.93	-9.19	-13.21	-15.95	-19.77	-20.02	-27.24	-21.23	-19.44	-27.65	-21.12	-15.34	-14.25	-13.5
Θ(30°)	-8.69	-15.18	-15.51	-20.04	-21.19	-14.31	-16.18	-19.31	-11.09	-6.7	-11.31	-12.33	-16.13	-22.51	-16.62	-13.65	-14.19	-13.54	-11.5	-11.65	-13.53	-14.25	-10.73	-7.45
Θ(45°)	-17.99	-18.11	-9.32	-10.67	-16.2	-14.25	-12.85	-13.66	-12.25	-8.24	-14.45	-13.62	-14.84	-10.9	-11.44	-17.64	-15.09	-23.27	-14.76	-14.65	-23.16	-15.51	-23.06	-16.17
Θ(60°)	-9.38	-25.18	-20.45	-13.77	-14.74	-13.83	-16.71	-18.29	-13.37	-9.22	-14.78	-16.39	-8.25	-7.95	-21.3	-32.39	-12.06	-12.73	-11.3	-13.99	-18.86	-16.13	-14.53	-21.07
Θ(75°)	-10.21	-16.12	-11.37	-22.97	-13.11	-19.02	-18.13	-12.74	-11.78	-11.81	-13.77	-11.21	-11.06	-10.56	-12.38	-10.88	-11.82	-12.81	-14.04	-17.55	-13.48	-12.41	-11.97	-28.48
Θ(90°)	-12.72	-20.55	-21.38	-15.29	-11.83	-20.52	-18.84	-18.84	-19.68	-20.49	-14.22	-9.99	-10.34	-9.11	-16.74	-24.49	-22.52	-20.4	-13.35	-30.37	-13.39	-15.96	-12.35	-19.44
Θ(105°)	-14.96	-15.37	-15.43	-22.63	-12.8	-33.29	-16.55	-18.73	-12.98	-13.73	-15.72	-21.57	-15.28	-19.49	-14.97	-15.34	-13.61	-15.36	-29.87	-12.91	-10.52	-15.13	-14.93	-14.65
Θ(120°)	-12.79	-12.93	-26.42	-23.26	-24.72	-19.79	-29.49	-15.14	-27.09	-12.74	-10.03	-9.03	-12.44	-15.6	-12.42	-10.5	-13.38	-22.12	-28.6	-30.64	-17.9	-26.87	-13.29	-12.18
Θ(135°)	-16.22	-15.55	-21.3	-21.58	-17.72	-16.47	-32.83	-12.04	-9.96	-10.32	-10.79	-12.78	-18.36	-16.62	-13.19	-8.19	-10.91	-13.56	-20.15	-18.69	-23.03	-24.97	-21.2	-17.38
Θ(150°)	-19.26	-20.53	-23.32	-18.65	-16.94	-21.01	-14.02	-10.33	-12.2	-10.92	-6.9	-9.38	-8.8	-8.72	-17.94	-12.39	-28.58	-11.98	-13.33	-13.17	-10.45	-16.71	-12.47	-13.53
Θ(165°)	-8.79	-12.63	-23.42	-15.41	-12.88	-9.96	-9.43	-9.67	-8.58	-7.88	-8.22	-12.89	-12.65	-14.53	-24.22	-22.96	-25	-28.27	-19.73	-14.01	-12.75	-12.89	-8.96	-9.43
Θ(180°)	-14.12	-15.94	-19.58	-19.7	-17.79	-16.24	-13	-12.81	-16.93	-19.03	-17.74	-16.73	-18.52	-22.98	-15.46	-16.23	-15.35	-16.21	-15.35	-11.3	-10.07	-11.9	-10.96	-14.08
Freq(Hz)	5.3G	Pol.	Theta	Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-20.61	-18.38	-23.73	-21.87	-18.71	-19.87	-16.83	-15.62	-14.7	-16.47	-17.7	-18.84	-23.32	-25.54	-23.74	-18.81	-20.17	-14.94	-14.56	-15.21	-15.27	-16.1	-15.1	-21.78
Θ(15°)	-16.36	-15.06	-16.93	-33.31	-23.73	-20.54	-15.04	-17.58	-23.56	-13.1	-14.14	-14.03	-10.98	-8.09	-7.47	-7.72	-8.25	-9.23	-8.19	-10.63	-12.04	-10.23	-7.29	-11.04
Θ(30°)	-6.07	-3.85	-6.22	-6.88	-6.95	-9.27	-6.23	-7.16	-11.2	-8.26	-2.94	-6.78	-5.38	-5.78	-8.39	-11.82	-10.12	-9.96	-7.66	-2.56	-4.27	-3.3	-4.08	-6.09
Θ(45°)	-3.52	-3.16	-1.94	-3.34	-3.53	-3.09	-2.92	-5.68	-7.19	-2.21	-4.61	-9.69	-5.55	-6.87	-1.9	-1.88	-1.91	-3.2	-1.66	-8.63	-6.53	-3.79	-3.68	-5.09
Θ(60°)	-1.17	-0.72	-2.1	-6.46	-6.51	-2.94	-4.51	-4.43	-2.03	-2.82	-0.98	0.7	-0.24	0.68	0.31	-0.46	-2.94	-2.21	1.46	-3.76	-0.67	-0.51	-4.06	-2.8
Θ(75°)	-2.77	-1.37	-0.59	-1.11	-2.88	-0.61	-0.13	-0.11	-3.12	-0.04	-0.87	-6.7	-1.82	-5.16	-4.33	-2.19	-0.46	-4.61	-6.04	-1.4	-1.37	-2.32	-0.95	-1.01
Θ(90°)	-1.68	-1.19	-2.66	-0.52	-1.69	-2.18	-2.92	-1.11	-3.5	-1.15	-1.35	-0.27	0.31	-0.04	-3.18	-3.96	1.18	0.67	0.6	-2.24	0.25	0.2	-0.68	-0.98
Θ(105°)	-2.65	-3.42	-0.43	-1.16	-2.86	-2.27	-0.7	-0.51	-2.63	-2.51	-0.6	-2.61	-0.59	-0.6	-4.89	-3.96	-1.94	-0.94	-0.93	-1.83	-4.79	-2.86	-5.29	-2.56
Θ(120°)	-0.83	-0.79	-0.85	-3.52	-2.39	-2.82	-7.11	0.53	-2.17	-0.13	-0.31	-4.17	-9.07	-5.41	-14.32	-2.97	-7.64	-6.29	-2.96	-8.77	-7.36	-3	-3.03	-9.28
Θ(135°)	-4.23	-8.5	-8.95	-6.33	-6.4	-3.42	-4.49	-4.74	-8.4	-11.59	-6.75	-4.85	-1.65	-3.07	-4.41	-4.25	-6.55	-9.51	-4.65	-6.91	-13.54	-11.74	-7.23	-5.19
Θ(150°)	-5.9	-7.52	-7.27	-8.46	-10.08	-8.88	-8.55	-5.7	-3	-5.04	-6.54	-2.41	-3.5	-9.91	-14.17	-21.99	-17.56	-20.12	-13.69	-17.58	-15.42	-9.45	-11.14	-8.1
Θ(165°)	-10.67	-9.08	-8.94	-10.85	-10.24	-10.57	-8.35	-7.53	-9	-9.2	-10.15	-11.25	-12.12	-9.33	-8.98	-13.51	-14.57	-22.81	-15.33	-16.49	-26.54	-20.27	-14.43	-11.83
Θ(180°)	-11.88	-12.65	-11	-13.88	-14.38	-11.44	-11.93	-12.95	-14.36	-14.72	-15.61	-16.92	-20.9	-18.8	-13.51	-10.38	-10.72	-10.09	-14.92	-14.13	-16.9	-20.04	-16.52	-14.38
Freq(Hz)	5.6G	Pol.	Phi	Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-23.67	-26.54	-22.07	-25.08	-21.15	-20.22	-20.11	-18.31	-27.82	-20.61	-18.56	-23.87	-30.06	-20.44	-23.56	-15.84	-19.75	-21.94	-17.34	-21	-18.71	-29.08	-38.91	-32.86
Θ(15°)	-14.11	-20.26	-17.88	-20.24	-12.23	-14.1	-11.58	-15.41	-31.77	-13.23	-20.88	-14.61	-12.96	-17.9	-38.63	-16.79	-16.9	-16.09	-12.93	-17.79	-21.67	-16.48	-9.13	-11.77
Θ(30°)	-13.74	-15.81	-16.14	-23.01	-20.85	-15.96	-12.98	-22.49	-9.38	-7.28	-6.62	-13.97	-16.46	-19.92	-12.76	-11.54	-10.07	-17	-14.94	-13.14	-16.12	-13.79	-9.15	-5.26
Θ(45°)	-14.98	-11.2																						

Θ(45°)	-2.62	-3.28	-4.64	-3.52	-2.79	-3.98	-2.57	-3.62	-11.3	-5.87	-3.5	-5.35	-5.89	-4.25	-0.71	-1.89	-4.5	-2.33	-3.63	-3.52	-7.65	-2.24	-4.08	-2.18
Θ(60°)	-1.12	-2.57	-3	-1	-3.57	-4.77	-2.57	-5.94	-4.95	-5.92	-4.19	0.81	0.95	-0.56	-0.01	-1.78	-1.18	-1.19	-0.93	-1.67	1.12	-4.1	-3.83	-3.1
Θ(75°)	-0.09	-0.39	-0.89	-3.58	-0.77	-1.38	-2.45	-2.41	-1.02	0.36	-0.68	-3.38	-6.73	-4.91	-6.13	-2.68	-3.15	-7.68	-3.95	-4.79	-5.79	-2.62	-2.42	-2.73
Θ(90°)	-1.24	-4.88	-3.75	-3.65	-2.45	-1.62	-4.21	-3.32	-1.21	-1.03	-1.78	-0.47	1.07	-1.92	-0.4	-3.48	1.58	1.53	0	-0.31	-2.71	0.61	-4.22	-4.44
Θ(105°)	-0.79	-1.78	-1.05	0.54	-0.96	-2.24	-2.46	-4.9	-5.08	-2.24	-2.5	0.31	-0.5	-0.24	0.38	-2.06	-1.89	0.01	-2.31	-0.55	-7.6	-3.23	-3.58	-1.8
Θ(120°)	-2.77	-2.94	0.59	-2.77	-2.73	-3.42	-3.4	-0.85	-0.88	-1.07	-0.38	-5.72	-7.99	-4.97	-10.78	-6.16	-7.3	-3.85	-4.35	-5.05	-8.45	-3.62	-0.77	-5.75
Θ(135°)	-5.69	-5.8	-4.97	-6.38	-2.04	-4.27	-5.35	-4.27	-5.98	-6.31	-4.68	-2.2	-0.76	-2.33	-2.32	-4.31	-6.38	-9.66	-5.36	-3.92	-13.81	-8.74	-3.5	-2.23
Θ(150°)	-3.94	-4.3	-6.19	-5.88	-6.07	-4.19	-4.4	-5.02	-4.33	-2.48	-1.83	-0.11	-1.38	-9.19	-17.49	-14.1	-19.76	-21.29	-15.38	-12.8	-11.89	-7.86	-7.09	-5.07
Θ(165°)	-6.21	-5.55	-8.58	-9.31	-8.96	-6.58	-7.27	-6.55	-6.38	-8.6	-9.32	-11.84	-10.9	-12.49	-13.78	-27.43	-21.27	-14.42	-16.2	-18.7	-11.77	-8.61	-8.97	-7.15
Θ(180°)	-11.25	-10.92	-8.09	-8.9	-9.64	-9.36	-9.79	-9.39	-9.46	-13.07	-15.03	-18.78	-24.48	-16.09	-9.83	-8.17	-9.03	-9.2	-9.16	-9.48	-13.55	-18.35	-20.88	-14.55
Freq(Hz)	5.785G	Pol.	Phi	Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-15.79	-12.04	-15.12	-12.58	-19.07	-15.47	-20.71	-21.33	-29.78	-15.52	-11.54	-10.88	-10.76	-10.24	-13.74	-12.94	-15.44	-19.81	-20.46	-22.1	-27.14	-21.65	-20.49	-15.47
Θ(15°)	-21.62	-13.9	-10.17	-12.89	-9.64	-12	-10.75	-14.61	-17.58	-13.78	-11.47	-12.96	-13.41	-18.09	-20.53	-14.12	-13.37	-15.1	-13.14	-16.52	-20.05	-20.02	-33.88	-19.75
Θ(30°)	-25.31	-16.42	-18.8	-18.75	-11.69	-13.7	-12.09	-17.03	-9.01	-7.07	-12.32	-26.15	-16.17	-15.32	-12.5	-7.38	-7.78	-9.94	-32.29	-15.31	-19.84	-21.44	-9.73	-8.12
Θ(45°)	-14.25	-15.04	-21.55	-13.71	-13.81	-13.38	-15.96	-21.06	-7.4	-3.77	-9.52	-19.92	-22.18	-9.27	-10.95	-9.21	-14.45	-25.16	-7.69	-9.3	-21.91	-12.74	-14.59	-13.61
Θ(60°)	-10.2	-19.01	-16.23	-14.81	-10.74	-15.34	-20.61	-10.95	-10.81	-12.33	-11.25	-7.83	-6.44	-9.02	-11.77	-14.27	-9.76	-16.09	-17.83	-9.48	-19.5	-10.57	-18.53	-10.65
Θ(75°)	-9.41	-18.16	-28.9	-23.72	-9.14	-15.93	-17.22	-15.34	-8.25	-15.52	-8.35	-6.62	-5.98	-6.48	-9.55	-5.52	-9.79	-13.33	-16.42	-12.65	-16.43	-19.11	-6.09	-12.78
Θ(90°)	-9.03	-15.67	-20.77	-17.03	-11.71	-8.96	-11.59	-9.35	-12.68	-12.15	-11.03	-12.02	-6.7	-11.08	-28.78	-8.07	-14.43	-12	-21.83	-11.36	-13.73	-23.03	-10.31	-11.32
Θ(105°)	-21.38	-14.32	-22.37	-23.83	-16.81	-27.12	-15.68	-14.94	-11.9	-21.04	-9.58	-9.19	-9.69	-19.37	-17.02	-11.99	-21.69	-29.51	-17.9	-7.28	-12.4	-25.79	-11.47	-38.77
Θ(120°)	-10.22	-14.76	-23.66	-14.58	-13.9	-20.16	-20.41	-9.97	-6.37	-11.08	-6.78	-13.26	-10.03	-12.38	-11.53	-14.09	-12.06	-15.09	-22.96	-13.09	-16.43	-19	-11.36	-19.5
Θ(135°)	-13.88	-11	-13.29	-11.89	-20.92	-17.84	-23.51	-8.86	-5.33	-11.45	-3.89	-14.71	-10.76	-20.53	-14.87	-13.16	-13.23	-14.72	-24.93	-12.72	-29.25	-18.17	-22.29	-28.8
Θ(150°)	-13.78	-26.6	-14.22	-15.53	-14.36	-13.94	-12.82	-6.58	-2.68	-11.1	-3.12	-5.04	-10.49	-6.54	-13.06	-14.45	-32.24	-8.05	-11.8	-9.2	-12.51	-9.2	-9.78	-14.71
Θ(165°)	-11.06	-18.36	-13.65	-13.62	-11.83	-13.85	-10.26	-7.13	-3.63	-4.15	-4.75	-11.66	-22.07	-16	-21.44	-20.66	-24.39	-29.41	-14.35	-12.07	-13.83	-13.2	-11.95	-9.87
Θ(180°)	-8.5	-10.98	-13.33	-35.04	-25.74	-15.66	-9.01	-8.2	-7.24	-9.84	-12.11	-13.63	-14.56	-16.93	-14.79	-23.97	-26.54	-11.84	-9.52	-7.34	-6.34	-5.98	-7.09	-7.45
Freq(Hz)	5.785G	Pol.	Theta	Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-18.71	-19.64	-21.06	-19.57	-20.78	-23.91	-17.35	-20.79	-16.53	-15.42	-15.12	-21.84	-25.78	-18.8	-18.77	-26.42	-24.86	-18.78	-20.16	-19.31	-15.86	-15.92	-15.61	-14.13
Θ(15°)	-11.73	-12.6	-11	-9.1	-7.6	-7.05	-9.84	-16.79	-16	-12.56	-14.49	-28.42	-22.26	-18.51	-16.02	-14.62	-11.46	-8.37	-11.65	-13.04	-13.47	-10.38	-7.96	-9.18
Θ(30°)	-13.76	-7.4	-9.83	-12.82	-6.23	-9.64	-23	-7.68	-5.65	-11.86	-26.49	-7.38	-7.39	-7.8	-8.69	-8.21	-6.46	-2.87	-2.42	-6.99	-9.34	-10.21	-9.91	-6.15
Θ(45°)	-7.61	-8.52	-4.97	-9.37	-10.53	-9.64	-7.45	-2.25	-4.37	-7.58	-0.04	-3.37	-4.36	-3.44	-1.94	-2.53	-12.72	-6.06	-7.47	-6.37	-2.14	-3.3	-4.28	-2.41
Θ(60°)	-2.79	-4.59	-4.07	-3.43	-4.76	-6.53	-3.67	-4.58	-5.13	-5.47	-5.78	-5.28	-0.96	-1.66	-2.52	-2.12	1.87	0.31	1.48	-0.79	1.09	-7.94	-2.97	-2.57
Θ(75°)	0.63	-2.42	-2.59	-0.53	-2.08	-4.28	-1.77	-0.91	-1.72	0	1.22	1.66	-3.87	-0.88	-3.16	-1.45	-13.67	-16.18	-4.51	-5.5	-5.17	-1.64	-2.49	-3.5
Θ(90°)	-0.11	-2.33	-0.36	-3.97	-0.71	-1.08	-2.66	-2.82	-1.3	-0.89	-1.17	-1.52	2.18	-1.38	-0.57	-3.59	2.15	2.44	0.71	0.23	-2.64	-0.81	-2.58	-8.59
Θ(105°)	-1.08	-4	-2.22	-0.76	-0.23	-2.55	-3.08	-1.05	-2.59	-2	-4.48	-0.59	1.83	0.24	0.99	-2.11	-1.84	-0.96	-1.66	-1.22	-3.35	-3.94	-1.61	-2.78
Θ(120°)	-2.19	-3.4	-3.77	-4	-3.77	-2.19	-2.77	-3.16	-1.55	-0.74	0.5	-1.88	-8.71	-8.88	-6.19	-4.15	-2.63	-3.82	-3.32	-4.42	-7.64	-2.81	-2.81	-1.39
Θ(135°)	-4.43	-2.01	-1.55	-5.94	-2.12	-1.4	-4.42	-2.29	-3.09	-7.29	-6.85	-2.01	-0.32	-2.89	-1.2	-1.99	-7.62	-11.67	-5.44	-4.16	-13.28	-8.67	-2.24	-2.47
Θ(150°)	-4.27	-2.7	-4.24	-3.97	-5.05	-4.27	-2.95	-3.51	-2.29	-1.56	0.12	1.43	1.26	-4.47	-9	-10.22	-18.17	-18.19	-16.13	-8.96	-9.88	-6.82	-6.77	-5.12
Θ(165°)	-3.49	-4.03	-4.88	-5.71	-5.1	-4.17	-3.24	-4.15	-4.24	-5.24	-5.91	-7.72	-6.69	-9.13	-10.93	-14.74	-14.12	-11.82	-9.64	-13.5	-9.06	-8.2	-7.59	-5.17
Θ(180°)	-11.12	-8.47	-6	-4.12	-6.16	-6.31	-7.04	-7.3	-7.71	-12.59	-16.4	-15.15	-16.72	-10.82	-5.72	-5.13	-6.4	-6.44	-6.96	-7.34	-12.65	-18.71	-36.7	-17.29
Freq(Hz)	5.2G	Pol.	Phi	Ant. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-28.41	-18.9	-16.34	-15.08	-17.22	-18.79	-22.66	-36.23	-19.09	-22.04	-29.29	-18.54	-20.09	-17.49	-16.45	-17.34	-23.05	-19.56	-27.59	-28.36	-26.09	-26.21	-25.71	-30.55
Θ(15°)	-16.94	-13.27	-12.99	-12.88	-14.11	-13.33	-13.89	-18.99	-25.41	-28.61	-10.59	-10.28	-13.52	-17.92	-25.02	-19.52	-19.45	-13.02	-14.15	-18.69	-26.1	-14.22	-12.85	-17.26
Θ(30°)	-16.34	-12.69	-15.73	-16.49	-14.79	-19.7	-10.33	-9.67	-13.06	-19.6	-9.63	-9.51	-9.72	-9.18	-20.84	-15.07	-15.69	-13.96	-13.12	-17.7	-22.4	-14.83	-7.63	-6.59
Θ(45°)	-41.78	-13.76	-7.17	-9.35	-26.93	-16.46	-15.15	-27	-16.19	-13.35	-12.47	-15.1	-13.56	-14.45	-14.56	-14.51	-11.87	-17.36	-10.1	-17.61	-25.42	-17.51	-14.26	-10.56
Θ(60°)	-14.71	-13.83	-11.12	-15.35	-14.64	-18.19	-24.22	-10.17	-9.91	-15.04	-21.17	-24.85	-23.59	-15.72	-24.39	-23.63	-18.57	-19.59	-14.51	-20.27	-13.01	-21.76	-22.66	-20.19
Θ(75°)	-12.7	-15.1	-21.73	-15.14	-24.35	-18	-25.78	-20.74	-19.56	-22.48	-15.47	-17.12	-16.62	-12.69	-25.22	-12.47	-13.61	-17.95	-16.01	-18.5	-18.98	-11.72	-15.65	-13.02
Θ(90°)	-16.08	-14.08	-11.52	-13.7	-7.2	-14.36	-14.28	-18.18	-21.86	-15.78	-26.37	-19.85	-22.14	-13.94	-16.8	-16.67	-18.76	-15.86	-14.36	-17.8	-21.37	-17.5	-18.01	-18.74
Θ(105°)	-9.94	-16.25	-11.74	-14.62	-14.41	-20.35	-20.57	-25.23	-12.94	-12.46	-17.15	-16.32	-15.76	-14.97	-15.68	-25.53	-26.46	-15.97	-16.75	-29.83	-19.52	-13.19	-18.37	-14.68
Θ(120°)	-14.66	-16.53	-11.28	-13.34	-15.13	-9.7	-18.53	-17.19	-13.08	-14.88	-11.18	-16.4	-15.89	-15.12	-20.91	-21.3	-13.64	-19.49	-25.85	-14.48	-16.41	-17.32	-21.22	-16.89
Θ(135°)	-26.74	-12.8	-13.85	-16.57	-16.27	-11.9	-13.34	-8.31	-10.69	-11.74	-23.23	-19.4	-18.89	-11.89	-16.77	-14.62	-13.8	-23.83	-20.67	-19.46	-22.8	-12.59	-26.11	-13.0

Θ(150°)	-11.28	-9.78	-8.88	-7.04	-8.64	-12.66	-11.89	-28.1	-9.89	-9.63	-8.17	-9.96	-9.65	-10.52	-12.15	-12.56	-7.39	-19.84	-14.78	-15.03	-10.58	-11.14	-12.52	-9.49
Θ(165°)	-12.2	-9.38	-5.3	-4.91	-8.13	-14.32	-28.75	-12.75	-11.85	-14.34	-16.12	-16.66	-30.51	-22.24	-13.24	-13.05	-13.25	-14.81	-18.21	-12.6	-12.25	-9.91	-9.94	-9.13
Θ(180°)	-21.53	-16.85	-15.67	-14.97	-11.79	-12.99	-12.54	-14.13	-15.57	-20	-20.73	-19	-17.2	-13.67	-11.53	-9.38	-10.46	-11.85	-14.81	-16.69	-16.49	-14.11	-20.27	-18.61
Freq(Hz)	5.3G	Pol.	Phi	Ant. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-16.4	-19.6	-22.71	-17.87	-21.69	-28.42	-18.05	-25.39	-32.92	-27.2	-20.12	-17.31	-16.44	-15.6	-15.67	-18.37	-19.06	-15.96	-23.65	-44.48	-31.62	-22.92	-22.31	-24.22
Θ(15°)	-15.78	-14.79	-12.37	-11.47	-12.98	-14.16	-17.28	-19.11	-19.39	-16.67	-19.53	-12.79	-11.41	-17.59	-30.6	-18.3	-15.34	-14.36	-13.93	-16.36	-16.47	-12.27	-10.83	-11.23
Θ(30°)	-10.98	-15.45	-16.13	-15.06	-9.54	-16.08	-12.12	-13.73	-19.36	-17.25	-8.91	-9.06	-8.67	-10.11	-27.13	-10.96	-13.54	-15.48	-14.88	-20.47	-21.82	-14.32	-10.19	-7.77
Θ(45°)	-16.56	-20.55	-11.71	-8.28	-18.76	-19.05	-27.1	-22.58	-16.92	-13.5	-11.29	-11.01	-17.33	-15.22	-21.44	-11.04	-17.75	-21.4	-14.18	-15.06	-19.94	-29.29	-21.26	-10.99
Θ(60°)	-12.34	-24.25	-7.91	-14.64	-16.53	-18.09	-29.78	-15.48	-10.21	-20.39	-23.56	-22.06	-21.2	-17.41	-22.98	-38.43	-22.39	-16.67	-12.04	-15.75	-21.75	-46.82	-18.84	-26.45
Θ(75°)	-11.22	-16.06	-35.94	-11.45	-16.81	-18.07	-17.56	-20.97	-13.61	-19.64	-19.49	-18.79	-19.82	-10.89	-19.77	-10.94	-13.9	-20.78	-13.71	-20.11	-20.06	-14.37	-12.9	-14.06
Θ(90°)	-16.48	-14.53	-13.06	-15.74	-7.33	-15.18	-13.58	-20.89	-20.46	-14.64	-19.96	-18.3	-32.39	-17.09	-17.58	-13.06	-13.71	-11.37	-12.55	-17.83	-18.21	-14.94	-12.78	-19.07
Θ(105°)	-13.69	-15.09	-13.38	-13.95	-16.29	-16.56	-18.6	-26.92	-14.04	-17.08	-13.76	-20.54	-17.91	-19.07	-17.03	-20.81	-17.78	-19.05	-19.22	-26.58	-16	-10.9	-23.14	-16.57
Θ(120°)	-15.59	-20.17	-14.53	-14.51	-13.9	-13.04	-20.07	-25.93	-17.36	-15.04	-12.11	-23.95	-17.1	-14.25	-18.77	-14.65	-11.05	-22.88	-23.48	-18.51	-12.61	-12.55	-36.19	-15.55
Θ(135°)	-12.47	-12.84	-8.19	-25.54	-21.93	-13.21	-16.27	-10.9	-16.68	-11.43	-23.86	-18.08	-18.12	-12.5	-13.42	-19.15	-19.88	-19.31	-17.66	-41.76	-18.86	-12.89	-35.28	-15.17
Θ(150°)	-19.89	-13.58	-13.3	-27.56	-18.63	-11.75	-11.53	-14.52	-31.37	-8.67	-12.18	-16.77	-17.89	-13.66	-21.08	-15.34	-13.21	-19.67	-24.76	-17.73	-24.8	-12.23	-27.64	-16.53
Θ(165°)	-18.35	-29.13	-29.19	-34.15	-27.32	-24.19	-22.76	-28.85	-19.99	-27.91	-12.2	-9.72	-9.73	-17.61	-15.31	-14.55	-16.22	-21.32	-20.6	-15.15	-21.8	-19.15	-25.94	-15.52
Θ(180°)	-15.97	-15.25	-18.92	-28.25	-27.29	-25.49	-23.68	-24.37	-24.45	-25.56	-20.58	-18.74	-12.85	-12.91	-13.76	-14.06	-15.74	-19.15	-33.22	-19.67	-12.4	-12.12	-11.87	-12.13
Freq(Hz)	5.3G	Pol.	Theta	Ant. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-24.98	-26.63	-26.55	-32.75	-23.43	-20.11	-21.4	-18.45	-24.81	-16.33	-18.67	-20.39	-30.28	-34.06	-25.75	-22.74	-19.91	-20.63	-17.53	-18.82	-20.81	-24.46	-20.32	-23.07
Θ(15°)	-8.74	-9.54	-12.96	-16.62	-18.21	-12.58	-9.7	-8.17	-6.5	-6.22	-5.88	-8.04	-9.78	-9.07	-10.28	-12.93	-19.65	-17.85	-13.42	-15.14	-16.18	-36.4	-12.17	-12.61
Θ(30°)	-6.15	-12.48	-11.53	-7.39	-7.54	-6.96	-7.23	-2.25	-2.61	-3.99	-8.85	-6.38	-5.52	-6.96	-3.53	-3.92	-7.88	-9.65	-8.18	-10.86	-12.15	-9.66	-8.61	-9.12
Θ(45°)	-7.23	-5.83	-4.53	-1.88	-2.72	-4.75	-0.28	0.02	-1.91	-4.11	-4.13	-0.43	-2.35	-2.62	-3.05	-0.76	-2.32	-4.19	-3.02	-6.19	-6.36	-6.27	-4.82	-5.6
Θ(60°)	-3.93	-2.1	-0.68	-1.42	1.18	0.48	-3.66	-0.42	0.32	-1.07	-0.22	-2.72	-3.49	-1.15	-3.75	-4.01	-3.29	-2.37	-2.54	-6.23	-4.81	-3.16	-2.62	-2.63
Θ(75°)	-2.3	-0.04	-3.3	-1.77	-2.03	-0.98	-1.1	-0.73	-0.66	-1.7	-2.43	-1.36	-0.24	-0.87	-2.92	-2.05	-0.99	-0.77	-1.41	-0.9	-1.59	-2.23	-0.75	-1.8
Θ(90°)	-0.5	-1.94	-0.35	1.61	0.69	-0.5	-1.17	-2.23	-2.53	-2.81	-2.57	-2.59	-0.89	-2.17	-0.4	-0.63	-0.7	-0.86	0.59	-0.22	-0.05	-3.39	-0.31	-1.43
Θ(105°)	-3.29	-2.93	0.59	-5.2	-0.68	-2.37	-4.94	-3.48	-2.78	-4.75	-4.1	-2.49	-0.52	-5.8	-2.69	2.02	-3.61	-1.48	-0.51	0.36	-1.12	-1.33	-0.37	-0.98
Θ(120°)	-2.62	-2.03	-2.75	-1.23	-7.7	-7.24	-14.71	-7.14	-7.53	-9.49	-5.93	-17.04	-2.22	-7.4	-4.88	-9	-4.88	-4.16	-2.29	-4.31	-4.46	-9.87	-2.14	-1.17
Θ(135°)	-5.9	-9.02	-7.21	-7.66	-10.1	-19.52	-8.3	-9.89	-8.07	-9.74	-9.97	-10.12	-9.89	-11.58	-8.91	-5.97	-12.79	-5.72	-7.33	-3.14	-4.78	-8.18	-5.71	-9.25
Θ(150°)	-12.39	-13.52	-9.95	-5.92	-9.61	-11.67	-21.13	-20.96	-12.7	-12.46	-13.7	-14.42	-9.48	-11.1	-10.27	-11.03	-7.46	-20.62	-23.91	-13	-10.26	-10.3	-6.48	-10.81
Θ(165°)	-14.46	-12.85	-7.84	-5.99	-5.57	-11.73	-25.96	-15.63	-15.41	-15.21	-17.01	-19.09	-26.05	-19.61	-15.27	-13.82	-17.92	-15.66	-20.48	-11.83	-10.86	-11.55	-9.77	-11.89
Θ(180°)	-20.22	-24.83	-22.46	-16.15	-14.99	-12.76	-14.3	-12.18	-14.12	-14.93	-18.88	-18.71	-21.74	-21.96	-15.22	-12.09	-13.56	-13.49	-14.16	-14.97	-16.97	-12.79	-16.59	-17.42
Freq(Hz)	5.6G	Pol.	Phi	Ant. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-10.26	-10.66	-9.18	-9.39	-9.64	-9.14	-12.01	-14.49	-16.62	-25.86	-23.3	-13.32	-12	-10.53	-10.25	-10.52	-9.24	-10.82	-10.25	-13.96	-21.5	-19.93	-25.41	-14.84
Θ(15°)	-15.16	-13.36	-22.19	-14.02	-15.48	-15.31	-22.84	-21.78	-16.28	-12.69	-13.13	-19.36	-27.75	-14.55	-9.39	-8.33	-10.81	-14.98	-20.6	-21.18	-16.05	-25.46	-16.15	-19.33
Θ(30°)	-10.1	-8.07	-11.06	-17.31	-14.23	-13.63	-16.32	-14.78	-18.27	-13.89	-9.67	-10.29	-13.94	-22.51	-12.54	-17.24	-16.03	-11.64	-16.19	-11.17	-14.83	-29.64	-24.61	-12.88
Θ(45°)	-15.52	-10.98	-18.57	-14.58	-12.4	-22.65	-17.45	-13.21	-7.44	-13.04	-18.59	-12.01	-15.72	-14.08	-21.17	-18.04	-18.04	-11.29	-10.54	-9.26	-13.13	-25.46	-15.87	-23.68
Θ(60°)	-23.45	-12.3	-9.72	-14.66	-11.13	-20.01	-14.31	-18.03	-8.5	-16.82	-14.78	-40.93	-13.14	-18.27	-13.05	-16.43	-14.15	-12.63	-11.19	-11.11	-14.48	-16.23	-13.66	-21.99
Θ(75°)	-13.85	-10.24	-19.33	-11	-14.77	-16.61	-17.95	-21.75	-19.35	-20.85	-22.14	-16.72	-14.81	-13.69	-16.22	-16.41	-15.67	-8.43	-14.67	-25.66	-21.25	-20.85	-17.29	-18.41
Θ(90°)	-17.66	-29.79	-24.71	-13.71	-12.64	-12.86	-9.78	-22.49	-13.93	-18.41	-19.06	-13.48	-14.28	-30.69	-14.02	-11.17	-13.48	-21.03	-19.01	-17.1	-19.83	-13.69	-19.87	-20.81
Θ(105°)	-16.2	-12.58	-14.52	-14.44	-13.87	-16.62	-35	-18.66	-14.3	-15.28	-17.43	-19.3	-22.74	-21.33	-21.16	-17.34	-18.95	-23.66	-16.63	-30.38	-17.24	-14.89	-29.18	-25.42
Θ(120°)	-14.3	-15.05	-30.32	-14.38	-12.17	-17.67	-27.95	-14.91	-13.46	-13.07	-11.66	-18.23	-17.45	-21.01	-20.85	-25.8	-15.45	-15.72	-16.43	-18.46	-16.04	-19.7	-16.19	-17.4
Θ(135°)	-14.64	-9.9	-16.16	-13.69	-13.23	-24.08	-18.87	-10.09	-16.39	-18.73	-27.23	-21.33	-23.57	-18.76	-18.36	-16.23	-14.89	-18.03	-17.49	-13.76	-12.09	-13.11	-16.23	-22.88
Θ(150°)	-13.7	-20.37	-17.34	-16.74	-22.15	-19.98	-17.81	-18.6	-21.97	-9.86	-11.37	-15.56	-16.37	-19.1	-21.37	-11.79	-18.77	-25.57	-16.51	-15.17	-15.98	-19.68	-15.92	-15.63
Θ(165°)	-24.17	-21.41	-26.89	-33.31	-36.97	-16.28	-14.64	-14.04	-21.52	-21.15	-13.94	-10.29	-12.94	-12.51	-15.61	-21.22	-32.22	-26.27	-14.35	-11.83	-10.93	-14.24	-20.18	-26.67
Θ(180°)	-19.9	-20.55	-21.09	-21.7	-21.34	-28.04	-36.03	-17.65	-41.66	-21.53	-25.75	-20.11	-18.71	-20.86	-15.39	-17.36	-25.08	-27.36	-25	-19.34	-16.47	-12.29	-12.35	-11.33
Freq(Hz)	5.6G	Pol.	Theta	Ant. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-10.89	-15.15	-26.22	-36.49	-20.51	-13.87	-10.92	-9.94	-8.8	-8.72	-8.31	-10.19	-12.46	-15.52	-22.45	-27.15	-18.15	-12.16	-11.99	-9.68	-7.72	-8.95	-8.5	-11.72
Θ(15°)	-16.9	-11.84																						

Θ(30°)	-10.51	-9.49	-11.06	-13.31	-19.96	-13.09	-16.35	-14.39	-23.06	-11.71	-10.11	-10.19	-9.96	-18.35	-11.93	-25.76	-13.59	-13.28	-13.67	-14.94	-30.82	-21.04	-16.01	-17.85
Θ(45°)	-18.09	-12.72	-19.58	-13.07	-12.24	-22.22	-19.43	-14.83	-9.1	-9.33	-14.57	-11.31	-14.97	-14.08	-17.98	-14.69	-14.47	-9.95	-13.59	-12.87	-14.4	-16.41	-17.73	-21.15
Θ(60°)	-19.42	-32.3	-8.02	-15.84	-14.21	-20.58	-13.88	-13.77	-8.76	-18.05	-27.59	-32.64	-19.75	-19.51	-14.84	-21.61	-14.18	-18.48	-15.5	-11.14	-19.11	-17.25	-19.83	-26.65
Θ(75°)	-14.78	-15.44	-14.51	-11.99	-11.36	-23.95	-20.67	-33.39	-15.39	-18.24	-19.09	-29.51	-15.5	-22.03	-16.45	-22.59	-12.63	-9.98	-16.83	-14.94	-23.47	-29.93	-21.05	-16.76
Θ(90°)	-18.8	-22.2	-15.72	-16.05	-8.54	-8.98	-11.34	-21.93	-12.14	-16.31	-20.13	-20.8	-13.24	-25.25	-18.47	-14.27	-26.6	-15.66	-26.69	-22.97	-11.88	-27.77	-23.21	-17.56
Θ(105°)	-16.92	-11.69	-12.81	-16	-14.64	-17.39	-32.87	-21.76	-17.64	-15.17	-17.69	-16.17	-20.15	-19.77	-21.56	-19.53	-13	-20.5	-22.52	-29.9	-19.69	-21.89	-36.97	-19.34
Θ(120°)	-21.57	-10.57	-21.13	-25.18	-11.85	-14.44	-25.36	-12.94	-15.91	-14.59	-12.92	-16.28	-17.54	-45.69	-15.3	-15.61	-15.56	-12.44	-16.34	-16.61	-21.58	-16.08	-20.3	-21.29
Θ(135°)	-18.43	-9.54	-22.23	-15.43	-14.81	-14.2	-11.43	-9.98	-14.43	-17.76	-16.08	-17.58	-26.99	-13.16	-19.87	-13.25	-11.13	-15.01	-14.05	-13.91	-14.82	-17	-20.55	-23.6
Θ(150°)	-12.95	-18.08	-13.77	-17.22	-17.4	-13.09	-10.58	-26.8	-21.37	-8.53	-9.85	-11.65	-9.02	-18.69	-17.13	-11.85	-22.5	-22.24	-20.35	-17.13	-10.1	-16.59	-13.01	-16.15
Θ(165°)	-20.49	-27.05	-22.45	-23.87	-22.73	-18.22	-13.77	-17.95	-24.78	-14.03	-15.68	-8.74	-9.86	-12.54	-13.05	-19.21	-21.87	-22.35	-18	-11.94	-15.04	-17.53	-11.55	-23.58
Θ(180°)	-15.55	-38.75	-22.09	-22.38	-21.11	-28.89	-23.08	-20.99	-18.11	-28.38	-26.96	-21.73	-16.8	-16.32	-15.25	-17.31	-22.5	-21.9	-21.88	-23.31	-17.15	-16.34	-14.52	-16.27
Freq(Hz)	5.785G	Pol.	Theta	Ant. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-16.76	-17.12	-34.22	-28.57	-18.03	-12.72	-11.41	-11.38	-11.02	-9.46	-11.83	-11.33	-17.28	-17.29	-19.38	-27.57	-21.22	-15.04	-11.69	-11.25	-10.45	-12.22	-12.76	-12.6
Θ(15°)	-20.56	-19.86	-11.9	-12.32	-10.26	-8.89	-9.15	-9.52	-9.14	-9.7	-12.94	-12.21	-11.49	-8.49	-8.57	-9.01	-6.55	-8.71	-11.24	-11.92	-8.69	-10.15	-9.66	-18.83
Θ(30°)	-9.41	-6.44	-7.76	-7.44	-7.13	-2.82	-3.53	-8.71	-8.92	-8.26	-4.68	-5.58	-2.39	-2.01	-8.17	-6.84	-4.09	-6.63	-8.51	-15.74	-10.88	-5.59	-10.27	-9.56
Θ(45°)	-4.61	-3.29	-4.76	-5.42	-0.96	-3.75	-4.84	-3.45	-4.68	-3.98	0.48	-1.13	-1.45	-4.25	-0.98	-2.1	-0.81	-1.8	-2.61	-3.74	-7.42	-3.36	-4.66	-3.44
Θ(60°)	-2.46	-1.51	-1.29	-2.24	-2.51	-1.43	0.18	-2.44	-2.44	-0.5	0.64	-3.23	-2.9	-2.56	-1.07	-3.24	-6.1	-1.07	-3.23	-2.38	-7.43	-3.05	-4.44	-3.22
Θ(75°)	-1.26	0	-1.96	-0.72	-2.93	-3.84	-2.14	-1.04	-1.16	-2.65	-0.69	0.13	-1.28	-1.71	-1.32	-1.6	-2.83	-1.04	-1.95	-0.76	-1.45	-1.98	0	-0.91
Θ(90°)	0.53	-0.54	-2.3	0.73	2.18	0.4	0.03	-0.77	0.64	0.46	1.15	-1.36	-1.49	-2.78	-0.91	-0.92	-0.54	1.09	-1.52	1.71	0.57	-4.52	-0.46	-2.32
Θ(105°)	0.5	-2.53	-3.56	-1.97	-0.01	-3.71	-4.37	-4.91	-2.48	-1.65	-1.96	-1.39	-2.01	-2.55	-4.2	-2.47	-1.35	1.05	-2.74	0.87	-2.57	-2.59	-1.57	-1.98
Θ(120°)	-2.59	-5.35	-0.32	-2.87	-3.95	-6.2	-9.7	-5.5	-8.23	-13.43	-2.87	-5.07	-3.42	-7.39	-2.42	-0.74	-7.94	-1.5	-5.82	0.75	-2.25	-3.59	-1.47	-3.24
Θ(135°)	-3.44	-3.38	-6.2	-4.07	-4.22	-11.49	-11.46	-11.61	-8.06	-6.3	-11.78	-5.6	-8.45	-5.47	-6.72	-9.62	-5.53	-4.7	-10.17	-6.02	-6.2	-10.88	-0.2	-3.11
Θ(150°)	-14.79	-10.07	-11.7	-5.55	-7.53	-10.39	-15.61	-21.93	-14.29	-15.09	-22.27	-15.62	-11.45	-8.71	-8.84	-17.14	-10.51	-10.66	-20.64	-13.03	-16.7	-12.62	-8.53	-7.37
Θ(165°)	-8.78	-10.19	-8.16	-6.92	-8.65	-10.41	-14.25	-17.23	-14.08	-15.15	-19.66	-19.78	-18.04	-15.19	-11.64	-11.45	-12.95	-13.66	-16.22	-10.65	-8.22	-8.88	-8.01	-9.38
Θ(180°)	-15.78	-16.18	-15.57	-21.08	-16.61	-18.31	-14.36	-14.2	-11.72	-13.87	-16.02	-18.43	-20.69	-16.89	-23.68	-34.85	-26.17	-24.02	-17.33	-18.44	-13.97	-14.93	-19.18	-13.01
Freq(Hz)	5.2G	Pol.	Phi	Ant. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-9.82	-8.13	-9.93	-15.32	-12.34	-15.91	-17.83	-14.04	-11.97	-11.35	-9.8	-8.94	-9.34	-10.45	-10.65	-9.64	-12.98	-11.64	-12.66	-12.57	-12.9	-13.04	-10.81	-9.91
Θ(15°)	-9.58	-12.47	-13.92	-10.95	-12.04	-16.67	-14.75	-20.05	-31.79	-23.86	-21.4	-18.4	-13.55	-10.97	-13.65	-17.16	-21.26	-18.93	-25.23	-21.52	-23.75	-18.56	-11.92	-8.89
Θ(30°)	-12.43	-8.06	-15.59	-26.18	-18.51	-16.8	-12.68	-26.43	-22.32	-19.35	-13.14	-25.14	-10.48	-11.47	-19.23	-20.42	-17.61	-13.57	-27.38	-16.25	-15.42	-19.41	-12.5	-14.17
Θ(45°)	-13.76	-10.2	-20.25	-17.7	-8.43	-27.1	-17.98	-26.42	-24.08	-19.73	-22.91	-13.65	-22.77	-16.92	-16.15	-14.85	-23.21	-20.29	-15.99	-28.61	-29.76	-19.91	-20.89	-34.06
Θ(60°)	-15.23	-14.93	-22.35	-22.29	-13.19	-15.6	-12.55	-11.59	-16.62	-29.49	-11.33	-9.34	-26.49	-15.23	-16.38	-15.81	-22.03	-14.23	-11.1	-26.71	-17.82	-26.06	-13.16	-10.57
Θ(75°)	-13.66	-10.74	-27.06	-17.62	-22.45	-10.9	-17	-20.55	-13.52	-9	-20.66	-7.06	-26.86	-11.35	-15.8	-25.15	-17.95	-16.12	-17.22	-13.99	-21.25	-12.42	-14.72	-12.37
Θ(90°)	-20.37	-18.3	-19.15	-13.65	-19.04	-14.74	-10.98	-15.79	-14.2	-16.86	-13.24	-13.73	-14.05	-20.71	-14.85	-22.63	-18.77	-14	-16.57	-20.42	-16.16	-16.17	-17.69	-15.53
Θ(105°)	-21.24	-11.39	-12.8	-15.94	-15.13	-11.57	-23.21	-25.03	-12.23	-6.99	-11.78	-10.96	-9.66	-10.89	-17.73	-17.14	-15.8	-20.07	-10.69	-14.82	-28.5	-21.77	-25.91	-16.28
Θ(120°)	-21.44	-12.24	-23.99	-17.44	-19.4	-14.62	-18.27	-23.41	-12.39	-14.32	-28.22	-32.77	-18.15	-17.43	-15.55	-20.48	-17.12	-26.39	-7.87	-21.7	-15.01	-36.21	-19.54	-17.62
Θ(135°)	-26.35	-26.53	-23.28	-13.23	-15.51	-15.36	-14.87	-18.54	-14.29	-30.99	-20.62	-19.23	-13.17	-16.65	-16.68	-13.99	-15.26	-15.73	-13.41	-26.41	-16.03	-16.73	-9.76	-23.36
Θ(150°)	-13.24	-20.03	-12.2	-11.4	-16.39	-15.07	-31.05	-24.05	-25.83	-18.47	-20.41	-13.87	-9.68	-11	-11.2	-11.87	-12.27	-11.24	-17.97	-15.18	-16.14	-16.82	-15.7	-13.3
Θ(165°)	-26.21	-15.83	-13.16	-15.54	-20.78	-23.77	-16.85	-14.35	-15.46	-12.21	-11.09	-10.63	-12.81	-15.79	-18.68	-22.45	-16.54	-12.74	-10.86	-12.89	-15.2	-20.77	-20.48	-16.87
Θ(180°)	-17.2	-14.82	-13.72	-13.12	-10.95	-9.59	-11.6	-10.36	-12.19	-17.07	-19.95	-22.33	-19.32	-13.94	-10.53	-8.23	-9.11	-7.04	-7.95	-9.87	-10.93	-13.35	-15.43	-17.11
Freq(Hz)	5.2G	Pol.	Theta	Ant. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-13.92	-13.68	-12.45	-10.75	-9.55	-10.19	-9.93	-8.75	-11.6	-12.51	-11.83	-14.54	-14.21	-17.01	-12.84	-11.97	-10.1	-8.39	-8.35	-8.93	-8.7	-10.83	-13.49	-15.67
Θ(15°)	-9.62	-5.96	-5.68	-5.43	-5.73	-6.87	-7.46	-9.54	-14.59	-15.06	-23.15	-12.31	-9.8	-13.04	-19.79	-18.83	-15.93	-14.88	-18.76	-14.53	-10.79	-9.58	-11.02	-10.82
Θ(30°)	-9.95	-12.14	-15.16	-4.78	-6.28	-7.1	-6.21	-6.84	-7.2	-9.34	-5.09	-9.88	-8.93	-10.53	-10.85	-4.47	-5.47	-6.62	-8.14	-7.99	-9.2	-4.82	-3.66	-8.26
Θ(45°)	-3.14	-3.35	-3.62	-5.61	-5.77	-4.92	-6.54	-4.74	-6.21	-5.05	-2.34	-1.06	-3.19	-3.71	-4.05	-2.92	-5.18	-4.79	-4.83	-3.87	-3.89	-6.27	-2.73	-5.48
Θ(60°)	-3.16	-3.09	-3.15	-0.54	-1.12	-2.74	0.23	-3.62	-1.73	-0.16	-2.7	-1.14	-1.38	-1.07	-2.08	-1.61	-7.13	-3.95	-5.36	-5.68	-6.38	-4.04	-2.98	-1.59
Θ(75°)	1.44	0.98	-4.57	-0.08	-0.61	0.51	-1.08	-1.01	0.18	-0.58	-2.51	-0.46	-0.63	0.04	0.93	-0.47	-1.3	-0.43	-0.85	-2.04	-1.93	-1.31	-2.42	-0.76
Θ(90°)	0.76	-3.85	-5.12	-2.87	0.56	-5.79	-0.4	-2.08	-1.11	-2.43	-1.34	-0.97	-1.55	1.02	-2.19	-0.98	0.61	-1.06	0.81	2.06	-0.15	1.73	-0.52	-1.71
Θ(105°)	-0.34	-0.64	-7.05	-2.85	-1.13	-1.38	-2.07	-2.51	-1.89	0.13	-1.98	1.26	-0.6	-2.52	-1.14	-2.98	-1.2	-2.97	-1.79	-1.08	-2.09	0.2	-3.55	-2.85
Θ(120°)	-0.08	-3.33	-7.75	-3.25	-6.88	-7.04	-5.06	-10.73	-9.4															

Θ(135°)	-17.1	-16.74	-21.19	-14.02	-24.2	-16.48	-15.6	-35.86	-14.67	-15.3	-17.45	-18.28	-12.69	-16.07	-15.01	-13.61	-12.5	-10.94	-18.02	-27.75	-16.25	-19.52	-12.87	-21.82
Θ(150°)	-15.03	-14.05	-17.08	-13.78	-15.81	-14.77	-14.46	-21.53	-16.28	-15.73	-25.9	-18.03	-9.66	-18.27	-13.44	-10.27	-14.2	-15.79	-23.27	-17.97	-16.64	-15.39	-21.44	-15.84
Θ(165°)	-19.17	-13.81	-13.46	-17.96	-27.47	-22.07	-22.95	-15.97	-12.27	-9.57	-10.6	-12.47	-12.37	-14.48	-40.85	-31.18	-20.16	-16.48	-14.8	-12.06	-15.13	-18.15	-21.08	-21.7
Θ(180°)	-22.97	-16.47	-11.52	-10.42	-8.88	-9.36	-8.27	-10.41	-13.5	-17.62	-25.2	-20.26	-11.71	-13.24	-10.79	-8.7	-8.02	-7.56	-8.14	-12.27	-12.65	-13.02	-15.97	-30.47
Freq(Hz)	5.3G	Pol.	Theta	Ant. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-15.26	-14.31	-14.14	-12.64	-11.98	-11.76	-10.45	-10.76	-11.57	-10.93	-12.75	-13.85	-16.09	-15.15	-13.44	-12.52	-10.43	-10.31	-8.57	-8.68	-9.44	-13.65	-13.8	-15.3
Θ(15°)	-14.86	-10.31	-7.36	-6.2	-5.76	-5.11	-6.59	-9.23	-10.67	-14.09	-13.6	-14.83	-14.28	-20.61	-16.39	-12.45	-13.36	-11.17	-15.58	-22.8	-20.74	-11.91	-9.82	-9.85
Θ(30°)	-5.14	-7.26	-19.58	-8.68	-4.31	-6.94	-8.98	-8.82	-11.31	-5.4	-6.51	-9.24	-6.84	-7.76	-9.15	-6.16	-6.46	-6.47	-7.77	-6.14	-5.93	-9.55	-2.96	-3.66
Θ(45°)	-2.8	-3.62	-2.54	-5.04	-5.26	-4.67	-3.25	-5.36	-6.99	-4.45	-2.2	-0.91	-6.36	-3.02	-2.46	-3.33	-2.44	-3.91	-4.64	-3.54	-3.97	-3.97	-3.05	-7.47
Θ(60°)	-3.34	-2.74	-3.43	-0.84	-0.63	-0.98	-0.75	-3.59	0.37	0.79	-2.9	-2.05	-0.26	-0.12	-2.35	-3.28	-3.27	-6.58	-4.32	-3.51	-6.25	-3.1	-4.62	-0.7
Θ(75°)	1.04	-1.14	-3.24	-0.02	-0.6	-0.48	-0.65	-1.12	-0.27	-2.32	-1.56	-0.53	-0.52	0.11	0.32	-1.32	-0.79	-1.47	0.28	-3.15	-1.14	-2.53	-0.87	-2.06
Θ(90°)	1.75	-1.28	-2.45	-3.42	0.66	-5.31	-1.33	-1.4	-0.77	-2.71	-1.07	-0.74	-2.83	1.3	-3.11	-0.39	0.15	0.18	-0.8	1.28	-0.52	1.1	-4.3	-1.03
Θ(105°)	-2.09	-1.43	-7.85	-2.78	-0.19	-3.13	-1.09	-3.21	-1.19	0.87	-1.76	1.01	0.48	-0.94	-0.66	-0.6	-2.18	-1.13	-1.46	-0.12	-3.93	-1.54	-5.55	-1.38
Θ(120°)	-0.2	-3.57	-7.98	-3.51	-7.69	-7.05	-6.57	-10.96	-8.07	-4.1	-5.97	-5.41	-5.42	-0.86	-1.54	-7.28	-0.93	-4.26	-11.14	-0.03	-6.05	-1.37	-6.44	-4.44
Θ(135°)	-4.79	-26.3	-8.27	-8.81	-6.53	-4.68	-8.61	-14.3	-11.42	-13.58	-7.74	-10.56	-7.73	-4.46	-19.78	-7.14	-9.78	-4.37	-4.95	-2.36	-11.13	-6.14	-11.78	-5.23
Θ(150°)	-5.71	-7.63	-14.14	-14.88	-19.2	-15.17	-12.91	-13.43	-10.2	-5.99	-6.03	-8.65	-4.96	-4.8	-6.87	-8.43	-6.46	-9.82	-15.18	-10.23	-7.29	-11.08	-6.2	-6.06
Θ(165°)	-20.34	-11.74	-15.34	-13.78	-12.23	-9.69	-14.97	-15.09	-9.99	-11.31	-13.47	-10.72	-12.35	-12.48	-12.21	-12.55	-17.98	-25.81	-12.64	-9.66	-9.49	-10.49	-16.88	
Θ(180°)	-10.25	-14.68	-19.68	-19.44	-22.07	-26.57	-18.2	-16.05	-11.59	-9.93	-9.09	-9.12	-9.18	-9.94	-10.42	-13.84	-20.62	-19.48	-10.93	-10.42	-11.77	-14.4	-11.48	-9.72
Freq(Hz)	5.6G	Pol.	Phi	Ant. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-13.07	-12.18	-12.2	-22	-17.99	-19.72	-16.88	-17.9	-14.81	-14.62	-11.27	-13.31	-13.91	-12.3	-10.86	-16.36	-16.69	-20.63	-15.73	-18.65	-11.44	-12.15	-10.74	-11.77
Θ(15°)	-10.41	-9.39	-11.08	-13.53	-15.49	-11.91	-14.26	-13.09	-19.04	-16.38	-19.62	-21.4	-15.05	-13.57	-17.83	-25.95	-14.89	-21.43	-14.37	-20.74	-25.63	-16.3	-15.52	-20.4
Θ(30°)	-8.18	-9.97	-13	-17.58	-13.56	-23.94	-17.06	-26.14	-19.51	-20.29	-17.83	-17.64	-14.22	-15.67	-19.49	-16.83	-28.36	-21.96	-21.12	-19.15	-16.16	-16.75	-20.72	-11.88
Θ(45°)	-15.14	-25.48	-12.13	-20.58	-7.31	-24.46	-19.4	-26.23	-21.8	-16.92	-14.33	-14.5	-12.07	-17.5	-24.33	-15.72	-15.48	-26.42	-15.1	-13.44	-31.01	-17.34	-16	-13.52
Θ(60°)	-11.9	-15.41	-21.93	-20.27	-13.97	-20.36	-12.08	-11.08	-19.19	-12.31	-14.44	-19.14	-39.75	-10.73	-19.46	-15.1	-12.55	-18.14	-11.79	-14.24	-23.11	-23.28	-12.44	-20.6
Θ(75°)	-12.25	-17.08	-14.95	-21.54	-17.13	-17.64	-18.84	-18.55	-12.91	-9.74	-19.56	-10.62	-16.92	-10.24	-23.8	-23.58	-31.12	-17.04	-11.82	-9.34	-15.85	-13.13	-15.42	-16.9
Θ(90°)	-15.36	-16.3	-13.01	-15.9	-13.27	-24.95	-12.86	-15.81	-23.2	-13.59	-14.15	-13.69	-19.58	-18.23	-20.71	-16.63	-42.87	-15.39	-17.82	-11.47	-24.12	-24.39	-14.11	-20.14
Θ(105°)	-19.85	-24.86	-17.31	-20.22	-27.22	-18.11	-14.68	-16.44	-12.17	-12.45	-9.67	-14.46	-12.2	-10.1	-30.59	-18.98	-13.25	-18.85	-15.36	-16.03	-15.69	-13.97	-26.09	-16.07
Θ(120°)	-18.68	-18.9	-17.68	-17.83	-15.49	-15.03	-28.65	-20.21	-14.83	-23.83	-15.83	-22.35	-15.11	-11.67	-34.02	-16.65	-19.7	-23.14	-11.85	-19.62	-13.46	-16.52	-17.43	-25.83
Θ(135°)	-51.19	-14.46	-29.81	-16.46	-15.8	-16.03	-33.4	-18.82	-13.4	-19.72	-17.77	-15.78	-18.59	-17.49	-24.7	-16.91	-16.89	-22.7	-16.54	-21.29	-13.91	-23.4	-16	-18.54
Θ(150°)	-15.51	-13.97	-16.76	-13.76	-14.05	-17.81	-21.35	-20.46	-19.51	-15.16	-21.29	-21.29	-15.49	-12.92	-16.89	-10.47	-25.38	-17.56	-21.52	-19.03	-13.91	-15.71	-32.24	-13.45
Θ(165°)	-23.15	-16.69	-16.97	-14.52	-17.05	-20.99	-20.4	-20.05	-18.62	-15.52	-11.37	-11.91	-17.18	-20.67	-14.7	-17.11	-17.72	-17.13	-14.27	-12.43	-14.72	-14.1	-23.73	-17.75
Θ(180°)	-22.12	-27.46	-13.66	-12.68	-10.54	-9.57	-13.24	-10.54	-12.61	-15.9	-23.6	-23.38	-22.5	-16.63	-14.14	-12.63	-9.92	-13.1	-12.59	-14.42	-16.42	-16.24	-18.07	-18.36
Freq(Hz)	5.6G	Pol.	Theta	Ant. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-20	-19.03	-14.83	-13.58	-13.89	-10.56	-13.2	-13.67	-14.43	-14.48	-15.55	-21.5	-20.39	-15.65	-17.5	-14.63	-15.12	-10.49	-12.1	-12.04	-10.93	-15.5	-15.65	-22.58
Θ(15°)	-11.36	-11.14	-10.46	-7.32	-6.63	-6.94	-6.68	-8.12	-8.43	-11.52	-13.79	-9.58	-9.23	-9.42	-7.93	-10.09	-15.4	-11.68	-14.33	-12.3	-12.98	-18.55	-18.78	-13.48
Θ(30°)	-9.54	-8.88	-5.02	-22.48	-7.65	-4.13	-8.13	-7.96	-6.92	-9.03	-8.23	-4.84	-6.22	-7.68	-6.06	-4.34	-2.32	-10.7	-10.45	-10.95	-6.41	-6.82	-12.93	-9.77
Θ(45°)	-5.35	-1.83	-1.79	-0.22	-7.41	-2.24	-2.33	-5.14	-6.87	-3.03	-3.44	-4.74	-1.17	-2.21	-4.05	-4.06	-3.37	-7.33	-3.97	-5.33	-3.6	-2.29	-1.44	-4.65
Θ(60°)	-3.96	-2.73	-5.68	-1.04	-2.5	-2.75	-1.68	-1.12	1.49	-0.86	-1.43	-0.52	-3.82	-0.56	-2.1	-1.98	-3.38	-2.14	-4.37	-2.56	-3.83	-2.64	-1.69	-2.73
Θ(75°)	-0.35	-0.64	-0.91	-1.91	-2.44	-0.85	-0.25	-1.28	-0.75	-1.62	1.1	-1.61	0.03	0.5	-1.1	-1.31	-2.82	-0.24	-0.48	0.42	-1.91	-0.42	-3.35	-2.13
Θ(90°)	1.63	0.09	-3.73	-2.55	0.36	-1.35	-1.74	-2.68	-1.68	-2.18	-0.63	-1.82	-4.55	-1.95	-4.3	-1.1	0.05	1.04	-2.7	0.99	0.52	2.15	-1.37	-0.57
Θ(105°)	-2.05	-1.08	-5.81	-3.91	-4.79	-3.21	-1.56	-4.72	-0.35	-0.23	0.25	-0.75	-2.69	-2.19	-5.82	-0.92	-1.59	-1.2	-1.03	0.32	-3.31	-2.94	-4.85	-2.77
Θ(120°)	-2.92	-1.21	-4.19	-4.77	-8.82	-5.98	-4.01	-14.33	-11.64	-5.26	-5.68	-2.6	-4.23	-3.01	-2.66	-2.92	-1.63	-3.66	-10.1	1	-5.49	-1.61	-4.97	-2.96
Θ(135°)	-4.81	-13.18	-6.71	-11.2	-7.09	-6.84	-7.34	-17.86	-15.19	-12.8	-9.16	-5.45	-7.63	-6.6	-12.82	-9.53	-3.12	-6.4	-19.44	-4.85	-7.66	-7.02	-12.42	-6.16
Θ(150°)	-4.55	-7.44	-13.7	-14.7	-14.93	-14.83	-22.55	-10.78	-5.17	-5.02	-7.04	-7.22	-8.18	-5.4	-8.37	-6.81	-8.87	-17.16	-17.36	-5.14	-8.99	-17.91	-6.59	-6.47
Θ(165°)	-26.17	-16.93	-21.27	-15.8	-14.92	-12.54	-15.43	-20.65	-11.55	-8.79	-10.78	-12.49	-11.8	-11.65	-11.69	-13.79	-13.22	-13.04	-10.57	-12.94	-14.21	-11.29	-10.38	-15.52
Θ(180°)	-11.68	-14.04	-16.83	-20.46	-26.94	-31.07	-22.03	-16.6	-11.66	-11.89	-11.01	-10.77	-11.49	-11.45	-13.04	-15.17	-26.35	-14.22	-14.34	-13.13	-13.21	-11.75	-11.44	-8.94
Freq(Hz)	5.785G	Pol.	Phi	Ant. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-12.14	-11.24	-13.56	-14.36	-19.44	-30.13	-24.53	-16.41	-12.19	-11.93	-10.73	-11.19	-9.71	-10.45	-15.66	-13.94	-27.55	-21.1	-18.6	-15.1	-14.22</			



Radiated Composite Gain

Appendix A

$\Theta(15^\circ)$	-34.37	-15.14	-13.07	-10.81	-10.04	-12.62	-11.85	-11.91	-15.4	-17.47	-12.61	-9.68	-10.39	-8.44	-10.81	-11.13	-11.75	-10	-12.29	-8.93	-8	-9.1	-11.28	-20.39
$\Theta(30^\circ)$	-8.05	-11.4	-3.89	-3.94	-15.78	-6.87	-7.26	-9.94	-7.13	-12.99	-5.32	-3.69	-7.2	-5.42	-7.99	-4.31	-5.13	-7.53	-3.63	-7.48	-7.6	-7.34	-8.38	-8.67
$\Theta(45^\circ)$	-5.28	-1.69	-3.17	-0.6	-6.44	-6.1	-3.19	-3.53	-6.97	-2.4	-1.78	-2.98	-1.14	-3.95	-2.32	-4.12	-5.05	-3.65	-3.82	-6.86	-4.71	-3.46	-3.64	-3.97
$\Theta(60^\circ)$	-3.19	-2.32	-3.04	-0.85	-2.52	-3.85	-2.85	-1.2	0.21	-1.71	-1.07	-1.64	-2.92	0.39	-0.29	-3.41	-1.03	-4.54	-1.88	-2.75	-2.91	-4.32	-1.05	-0.75
$\Theta(75^\circ)$	-1.82	-1.4	-1.53	-3.92	-1.02	-0.27	0.65	-1.66	-3.7	-1.23	-2.59	-0.72	1.85	0.59	-0.92	-2.25	-2.31	0.79	0.08	0.68	-1.15	-2.75	-2.91	-0.76
$\Theta(90^\circ)$	0.88	-1.45	0.78	-0.38	-0.27	-0.53	-1.5	-0.41	-1.53	-1.25	-2.85	-2.2	-0.32	-1.58	-0.26	-0.42	0.3	-0.21	0.63	-0.67	-0.45	1.17	-0.11	-1.85
$\Theta(105^\circ)$	-1.12	-3.46	-2.65	-4.31	-5.15	-2.5	-1.48	-3.91	-2.96	0.23	-1.89	-1.62	0.13	-2.51	-2.47	-5.67	-0.79	-2.85	-1.29	-1.17	-3.19	-2.11	-2.36	-2.63
$\Theta(120^\circ)$	-2.94	-2.29	-3.21	-4.02	-8.36	-6.66	-2	-12.02	-12.28	-5.33	-6.6	-1.02	-3.74	-4.49	-3.16	-4.34	-0.44	-7.67	-3.54	0.23	-5.98	-1.8	-4.23	-1.18
$\Theta(135^\circ)$	-4.56	-12.02	-4.15	-8.24	-8.07	-4.29	-6.44	-10.19	-18.9	-8.79	-6.39	-4.56	-8.23	-6.84	-13.64	-9.97	-5.1	-4.97	-19.92	-1.98	-18.57	-3.51	-8.65	-4.32
$\Theta(150^\circ)$	-3.17	-11.74	-10.93	-18.85	-17.42	-11.76	-27.63	-15.3	-3.55	-6.64	-6.57	-9.17	-6.54	-3.62	-5.91	-10.1	-13.55	-12.14	-10.52	-5.42	-8.22	-11.34	-5.8	-4.73
$\Theta(165^\circ)$	-18.04	-14.75	-11.57	-13.91	-14.27	-12.77	-25.01	-17.78	-9.68	-8.69	-10.36	-10.43	-8.63	-10.79	-13.45	-17.99	-16.66	-21	-9.93	-10.62	-17.15	-21.56	-11.23	-13.06
$\Theta(180^\circ)$	-14.46	-15.28	-17.35	-19.58	-21.23	-23.37	-22.35	-21	-15.79	-13.29	-12.71	-12.51	-14.14	-12.82	-12.84	-17.71	-24.53	-20.13	-20.6	-19.61	-12.24	-13.34	-18.56	-12.24

Total Gain Data

Freq(Hz)	5.2G	Pol.	Total	Ant. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-14.91	-14.62	-13.32	-13.37	-15.43	-13.14	-13.88	-15.37	-15.94	-14.42	-14.78	-14.78	-12.71	-14.75	-15.68	-15.39	-15.36	-12.19	-15.58	-13.72	-15.60	-15.12	-15.65	-15.21
Θ(15°)	-12.23	-10.70	-9.16	-9.33	-9.64	-8.76	-8.35	-9.57	-9.52	-11.99	-10.53	-13.90	-12.06	-10.62	-9.56	-11.31	-13.62	-9.50	-11.33	-9.48	-10.10	-9.37	-9.19	-9.81
Θ(30°)	-12.81	-9.78	-10.75	-4.56	-4.56	-7.42	-8.21	-9.19	-10.00	-7.05	-6.07	-7.07	-10.20	-12.45	-8.67	-4.78	-2.33	-3.82	-6.46	-6.77	-5.92	-7.30	-5.99	-11.04
Θ(45°)	-1.87	-1.07	-2.62	-4.56	-3.77	-4.86	-9.71	-8.87	-6.50	-6.32	-5.24	-5.22	-5.22	-1.67	-1.76	-4.66	-4.28	-3.07	-2.48	-3.42	-1.70	-4.72	-1.62	
Θ(60°)	-2.56	-3.53	-0.74	-0.45	-0.22	-1.36	-1.83	-1.81	-3.92	-1.92	-1.19	-2.40	-3.95	-1.48	-1.12	-1.54	-0.50	-0.34	-1.16	0.81	0.16	-0.57	1.43	-1.50
Θ(75°)	0.54	0.42	1.00	-0.91	-0.64	-1.94	-0.43	0.20	-1.90	1.06	-0.66	-1.44	-1.55	-0.60	0.90	0.65	-0.20	-1.26	-2.61	-3.14	-3.35	-1.74	-2.69	-1.47
Θ(90°)	0.58	-1.17	0.91	0.20	-1.00	0.39	-0.64	2.16	-0.03	0.13	-0.11	0.50	-0.59	0.88	0.92	0.68	-1.29	-0.33	0.74	0.34	2.48	-0.30	-0.42	-0.79
Θ(105°)	1.70	-1.11	-2.86	-1.46	-1.17	-2.59	-0.13	-1.09	-3.49	-1.21	-1.78	1.48	-3.18	0.30	-0.54	-1.45	-2.75	-0.16	1.69	-0.65	-0.99	-3.14	-0.70	-2.61
Θ(120°)	-2.61	-2.92	-3.01	-2.99	0.67	-0.08	-1.57	-4.48	0.05	-0.38	-4.89	-0.29	-1.81	-0.86	0.47	0.75	-10.36	-1.75	-2.73	-5.37	-2.68	-15.05	-4.54	-5.66
Θ(135°)	-6.52	-7.75	-4.63	-5.15	-5.30	-8.05	-4.98	-5.54	-5.98	-4.93	-3.91	-8.59	-7.00	-4.86	-5.70	-4.72	-9.80	-11.77	-4.76	-5.02	-6.25	-5.04	-5.85	-10.86
Θ(150°)	-8.27	-5.14	-7.22	-6.25	-7.34	-5.89	-4.93	-3.98	-4.74	-9.04	-7.38	-3.99	-6.59	-8.92	-8.83	-12.36	-7.72	-10.20	-12.69	-6.74	-10.38	-9.72	-13.06	-10.29
Θ(165°)	-8.74	-10.35	-10.48	-9.99	-10.46	-9.89	-9.23	-8.69	-8.23	-9.71	-8.50	-8.10	-9.29	-10.03	-10.77	-13.09	-11.60	-9.89	-12.46	-12.47	-12.90	-11.47	-10.29	-15.07
Θ(180°)	-14.71	-13.02	-12.56	-13.93	-13.77	-14.43	-13.51	-15.27	-14.68	-15.37	-14.52	-14.79	-12.57	-12.86	-14.89	-15.86	-13.14	-12.71	-10.60	-14.68	-15.81	-15.00	-13.97	-15.65
Freq(Hz)	5.3G	Pol.	Total	Ant. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-14.00	-11.55	-11.38	-11.59	-13.33	-15.48	-13.99	-14.76	-14.47	-15.65	-15.37	-14.47	-14.84	-13.64	-11.52	-11.78	-9.79	-15.54	-14.64	-15.21	-15.85	-14.45	-14.56	-15.61
Θ(15°)	-9.20	-10.08	-9.01	-8.90	-8.06	-7.52	-7.38	-9.27	-10.23	-10.28	-10.92	-12.02	-11.85	-11.04	-9.66	-10.80	-13.00	-15.93	-14.69	-10.95	-10.41	-10.10	-12.55	-10.51
Θ(30°)	-8.39	-9.12	-4.77	-2.36	-5.56	-7.34	-6.57	-5.14	-5.66	-7.44	-5.55	-5.19	-8.00	-9.25	-11.02	-5.41	-1.24	-2.80	-10.46	-7.36	-7.20	-5.79	-10.76	-14.15
Θ(45°)	-1.76	-2.13	-5.50	-5.99	-3.19	-6.39	-4.48	-4.16	-4.17	-7.45	-5.89	-4.30	-3.86	-4.86	-1.77	-1.39	-3.50	-4.69	-2.82	-3.00	-3.52	-3.35	-3.03	-1.41
Θ(60°)	-1.21	-2.69	-0.62	-1.89	-1.07	-1.50	-3.21	-3.76	-3.39	-3.24	-1.89	-0.66	-0.59	-1.65	-1.61	-2.14	-0.06	0.36	-1.81	-0.75	0.19	-1.15	-0.44	-2.00
Θ(75°)	0.89	0.55	-1.41	-1.07	-0.99	-1.52	-1.08	-0.53	-0.67	0.34	-1.89	-1.45	-0.33	0.80	-0.58	0.08	-0.15	-2.76	-3.57	-3.85	-5.28	-2.05	-3.39	-1.88
Θ(90°)	-1.14	-1.27	0.62	0.13	-0.89	-0.18	-2.34	0.14	-0.14	-0.89	0.13	-0.71	0.30	0.57	1.41	0.75	0.39	0.87	1.66	1.47	1.52	-0.69	-0.09	1.00
Θ(105°)	1.04	-2.13	-2.69	-4.68	-2.96	-3.27	-1.15	0.90	-3.41	-1.11	-1.42	0.01	-1.52	-0.08	-0.06	-0.64	-1.44	-0.15	1.60	-0.65	-1.11	-1.93	-1.26	-1.93
Θ(120°)	-2.60	-3.43	-4.67	-2.31	0.54	-1.62	-0.57	-4.65	-1.21	-0.42	-2.41	-0.10	-2.11	-3.03	-0.31	0.53	-6.69	-0.08	-1.70	-8.70	-5.08	-12.66	-3.77	-4.68
Θ(135°)	-5.82	-7.26	-5.04	-4.46	-6.97	-5.01	-3.34	-4.08	-6.64	-4.69	-4.49	-10.18	-4.47	-4.22	-5.82	-5.73	-9.07	-11.66	-6.44	-5.91	-6.39	-4.57	-6.57	-12.75
Θ(150°)	-5.83	-5.95	-5.34	-5.49	-6.30	-5.63	-6.09	-4.75	-6.54	-6.20	-5.72	-2.79	-4.62	-6.27	-7.81	-9.58	-8.23	-8.80	-14.81	-8.51	-12.33	-9.62	-11.53	-11.43
Θ(165°)	-15.41	-11.11	-9.94	-9.40	-7.99	-7.20	-7.77	-6.79	-7.39	-8.41	-7.63	-7.81	-8.68	-10.30	-10.53	-13.34	-13.61	-12.21	-12.93	-14.01	-11.83	-15.53	-12.68	-13.13
Θ(180°)	-11.63	-11.15	-10.04	-11.50	-10.25	-12.42	-12.18	-12.32	-11.63	-12.54	-13.45	-10.64	-11.33	-12.26	-13.30	-13.98	-13.91	-11.80	-11.11	-11.69	-14.31	-13.07	-12.31	-11.08
Freq(Hz)	5.6G	Pol.	Total	Ant. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-14.81	-12.71	-13.47	-14.31	-12.92	-12.35	-14.11	-12.22	-14.35	-11.27	-11.29	-11.90	-11.76	-11.60	-12.85	-11.75	-13.57	-12.09	-13.85	-10.87	-13.98	-14.30	-12.42	-11.88
Θ(15°)	-11.40	-12.83	-14.16	-13.55	-12.21	-10.99	-15.81	-12.27	-14.37	-11.72	-11.93	-11.44	-7.48	-9.35	-8.51	-8.29	-10.95	-16.44	-15.63	-15.35	-12.01	-13.71	-10.56	-10.43
Θ(30°)	-6.58	-7.06	-5.46	-5.93	-6.47	-9.02	-6.88	-5.71	-7.52	-7.15	-6.16	-7.29	-6.22	-4.76	-4.41	-8.23	-11.29	-7.16	-5.24	-9.64	-10.86	-10.30	-7.90	-7.01
Θ(45°)	-0.69	-1.77	-4.25	-1.74	-2.47	-1.16	-1.37	-0.66	-0.82	-1.52	-3.90	-3.59	-3.30	-1.63	-2.71	-0.63	-1.45	-4.81	-2.46	-4.01	-2.03	-3.28	-1.80	1.02
Θ(60°)	-1.97	-2.42	0.52	-2.58	-2.30	-4.08	-1.73	-1.67	-1.33	-3.35	-3.51	-4.14	-0.25	-1.94	-1.37	-2.02	-2.27	-2.20	-2.66	0.31	-1.68	-1.07	-1.28	-2.54
Θ(75°)	-0.43	-2.30	-1.49	-0.78	0.06	0.60	-0.07	-0.98	0.75	-1.35	0.97	0.51	0.29	0.35	1.03	-0.43	0.99	-3.67	-3.47	-2.21	-2.90	-2.52	-2.73	-2.57
Θ(90°)	-3.73	-0.26	0.05	-2.22	0.89	-2.43	-3.54	-2.98	-1.90	-2.21	-2.15	0.02	-0.23	-0.04	-0.85	-1.54	-0.14	0.15	2.29	-0.29	1.56	-1.17	1.14	1.17
Θ(105°)	-0.32	-0.53	-3.71	-2.03	-3.28	-3.00	-0.85	-0.29	-0.01	-0.80	-0.61	-1.91	-0.92	0.67	-0.29	-3.05	0.74	-2.16	2.96	-0.19	0.51	-3.58	-3.47	-3.41
Θ(120°)	-3.98	-1.70	-0.04	-1.75	-0.67	-1.94	-0.95	-3.83	-2.62	-4.06	-0.61	-2.03	-1.45	-6.37	-3.66	0.65	-3.15	-0.32	-0.01	-10.20	-8.00	-6.59	-1.62	-3.43
Θ(135°)	-5.55	-4.78	-5.90	-6.48	-9.48	-3.64	-2.66	-4.63	-1.67	-6.73	-5.26	-2.49	-4.76	-4.04	-3.57	-3.99	-8.80	-9.31	-5.48	-5.51	-5.47	-6.02	-6.64	-8.33
Θ(150°)	-7.58	-8.82	-5.09	-4.11	-5.06	-5.46	-8.50	-10.09	-8.02	-6.38	-6.74	-9.15	-7.51	-5.04	-9.10	-7.33	-7.44	-7.81	-10.62	-9.95	-9.80	-11.39	-14.07	-11.19
Θ(165°)	-9.42	-7.67	-7.88	-7.37	-7.11	-9.33	-7.72	-8.61	-6.20	-6.93	-6.70	-6.17	-7.72	-10.51	-11.08	-12.02	-10.44	-12.70	-12.18	-15.15	-12.27	-13.99	-13.09	-13.63
Θ(180°)	-14.16	-15.36	-12.80	-13.52	-15.58	-14.04	-11.95	-14.71	-11.56	-13.10	-12.23	-11.66	-14.39	-14.39	-15.33	-15.09	-13.90	-9.28	-8.57	-10.64	-11.17	-13.30	-11.47	-12.34
Freq(Hz)	5.785G	Pol.	Total	Ant. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-15.42	-12.59	-11.29	-11.66	-14.57	-14.98	-14.44	-13.10	-10.70	-12.27	-13.61	-11.62	-11.98	-12.12	-11.97	-15.48	-14.47	-11.98	-15.41	-10.56	-11.42	-12.98	-13.18	-14.06
Θ(15°)	-11.84	-10.43	-11.97	-10.67	-12.72	-11.01	-12.66	-9.93	-11.74	-14.79	-14.87	-12.02	-11.99	-14.66	-10.41	-7.88	-6.66	-7.05	-9.82	-11.36	-14.62	-10.97	-13.04	-12.63
Θ(30°)	-4.31	-5.52	-9.10	-8.90	-11.58	-6.41	-6.51	-6.67	-8.01	-6.71	-6.52	-10.29	-9.00	-6.42	-8.62	-5.87	-14.28	-11.37	-6.65	-3.95	-6.13	-8.75	-5.85	-6.61
Θ(45°)	-2.11	-4.25	-1.72	-1.76	-2.67	-1.93	-1.78	-2.97	-2.68	-1.28	-2.72	-6.30	-5.08	-4.03	-3.80	-0.84	0.67	-2.94	-3.28	-2.38	-2.36	-1.24	-0.12	1.46
Θ(60°)	-1.83	-1.64	0.21	-5.42	-3.03	-4.34	-1.85	-2.71	-0.80	-2.07	-3.66	-4.69	-2.34	-1.83	-0.71	-2.02	-6.15	-1.33	-0.77	0.05	-2.64	-0.84	-1.45	-3.12
Θ(75°)	-2.28	-0.31	-2.11	-1.65	-1.42	-0.37	-1.73	-0.16	1.92	-0.87	2.08	-3.03	0.35	-1.09	0.59									

Θ(60°)	-1.60	-1.53	-2.71	-3.80	-3.32	-2.73	-4.57	-2.71	-1.68	-1.54	0.64	2.02	-0.00	0.90	0.12	-0.98	-1.09	-2.46	-1.09	-0.22	-0.30	0.55	-4.21	-2.78
Θ(75°)	0.21	-1.50	-0.82	0.53	-0.76	0.25	-1.10	-0.33	-1.20	0.46	-3.24	-3.28	-2.23	-1.65	-3.05	-3.32	-0.45	-3.87	-2.91	-0.76	-2.61	-2.06	-0.85	-1.07
Θ(90°)	-0.85	-0.11	0.05	0.39	-1.02	-1.79	-2.57	-0.77	-2.62	-1.11	-1.44	0.46	0.96	1.03	-0.83	-3.13	0.44	0.32	2.25	-2.37	-0.61	-0.47	-1.13	-0.29
Θ(105°)	-0.80	-3.59	-0.82	-2.02	-4.86	-0.69	-1.41	0.37	-3.54	-1.53	-1.65	-0.81	-0.34	0.59	-4.09	-4.26	-1.50	-0.47	-0.95	-1.31	-4.79	-2.59	-6.47	-1.74
Θ(120°)	-1.76	-0.27	-0.34	-4.03	-1.23	-2.20	-6.08	1.17	-1.99	1.49	0.05	-5.20	-5.62	-6.35	-10.84	-2.62	-4.65	-5.24	-1.89	-7.33	-6.41	-2.56	-2.91	-5.51
Θ(135°)	-3.07	-8.00	-4.98	-2.91	-1.85	-2.21	-5.20	-2.94	-6.51	-5.39	-3.82	-1.61	-2.32	-2.20	-4.00	-2.21	-5.92	-9.97	-3.88	-6.33	-12.30	-10.16	-8.57	-4.01
Θ(150°)	-4.87	-4.91	-5.95	-7.17	-12.50	-9.10	-4.20	-1.48	-1.20	-4.68	-1.93	0.77	-1.65	-8.34	-8.62	-10.91	-14.93	-12.61	-9.94	-9.06	-10.69	-8.92	-5.25	-7.47
Θ(165°)	-6.43	-6.02	-8.91	-9.37	-6.83	-5.61	-4.68	-3.72	-3.26	-4.51	-6.46	-0.78	-7.39	-6.88	-8.70	-11.78	-14.97	-12.70	-10.86	-7.95	-11.22	-9.09	-10.63	-8.28
Θ(180°)	-7.19	-7.56	-8.11	-7.58	-8.75	-8.44	-8.10	-8.37	-9.04	-9.62	-11.17	-13.83	-13.34	-11.89	-8.36	-6.18	-5.93	-8.20	-7.74	-7.53	-7.03	-7.40	-7.56	-8.08
Freq(Hz)	5.3G	Pol.	Total	Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-12.38	-11.73	-11.46	-12.45	-15.84	-14.39	-14.11	-13.77	-12.91	-13.65	-13.94	-13.98	-12.31	-9.87	-10.39	-11.14	-14.57	-13.56	-12.83	-13.37	-12.79	-13.10	-12.16	-11.90
Θ(15°)	-11.88	-13.03	-13.97	-14.60	-15.24	-15.26	-13.33	-14.96	-15.56	-11.95	-9.23	-7.96	-8.94	-7.43	-7.17	-7.34	-7.80	-8.71	-7.88	-9.97	-11.18	-9.06	-6.49	-9.09
Θ(30°)	-4.18	-3.54	-5.74	-6.55	-6.64	-8.09	-5.81	-6.87	-8.13	-4.40	-2.35	-5.71	-5.03	-5.52	-7.78	-9.63	-8.68	-8.38	-6.16	-2.06	-3.78	-2.96	-3.23	-3.71
Θ(45°)	-3.37	-3.02	-1.21	-2.60	-3.30	-2.77	-2.50	-5.04	-6.01	-1.24	-4.18	-8.21	-5.07	-5.42	-1.44	-1.77	-1.71	-3.05	-1.45	-7.66	-6.25	-3.51	-3.55	-4.76
Θ(60°)	-0.56	-0.65	-2.00	-5.72	-5.90	-2.60	-4.26	-4.26	-1.72	-1.92	-0.80	0.78	0.40	1.24	0.36	-0.40	-2.44	-1.84	1.68	-3.37	-0.60	-0.39	-3.69	-2.69
Θ(75°)	-2.05	-1.23	-0.24	-1.02	-2.49	-0.55	-0.06	0.12	-2.57	0.24	-0.65	-5.38	-1.33	-4.06	-3.70	-1.64	-0.15	-4.00	-5.40	-1.30	-1.11	-1.91	-0.62	-0.93
Θ(90°)	-1.35	-1.11	-2.55	-0.38	-1.29	-2.07	-2.77	-1.04	-3.40	-1.07	-1.13	0.66	0.67	0.47	-2.99	-3.80	1.22	0.72	0.77	-2.13	0.43	0.30	-0.39	-0.92
Θ(105°)	-2.40	-3.15	-0.29	-1.08	-2.44	-2.17	-0.59	-0.43	-2.25	-2.19	-0.47	-2.47	-0.44	-0.54	-4.48	-3.65	-1.65	-0.79	-0.85	-1.50	-3.76	-2.61	-4.84	-2.30
Θ(120°)	-0.56	-0.53	-0.79	-3.38	-2.30	-2.69	-6.80	0.65	-2.08	0.10	0.13	-2.94	-7.43	-5.01	-10.26	-2.26	-6.61	-6.04	-2.86	-8.36	-6.99	-2.88	-2.64	-7.48
Θ(135°)	-3.96	-7.72	-8.43	-6.04	-6.09	-3.21	-4.29	-4.00	-6.10	-7.90	-5.31	-4.20	-1.56	-2.88	-3.87	-2.78	-5.19	-8.07	-4.42	-6.63	-12.40	-10.82	-6.95	-4.94
Θ(150°)	-5.70	-7.13	-6.97	-8.06	-9.27	-8.42	-7.47	-4.41	-2.51	-4.04	-3.71	-1.61	-2.38	-6.26	-12.65	-11.50	-14.57	-11.08	-10.50	-11.83	-9.25	-8.70	-8.74	-7.01
Θ(165°)	-6.62	-7.49	-8.43	-9.55	-8.35	-7.24	-5.85	-5.46	-5.77	-5.48	-6.07	-8.98	-9.37	-8.18	-8.46	-12.12	-13.04	-15.24	-13.72	-12.07	-11.86	-11.91	-7.88	-7.46
Θ(180°)	-9.85	-10.98	-10.20	-12.33	-12.75	-10.20	-9.42	-8.87	-12.45	-13.35	-13.54	-13.81	-15.15	-15.95	-11.37	-9.38	-9.43	-9.14	-12.12	-9.48	-9.25	-11.09	-9.89	-11.22
Freq(Hz)	5.6G	Pol.	Total	Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-15.13	-14.78	-14.24	-15.83	-14.80	-15.43	-14.97	-15.36	-14.58	-15.67	-15.23	-15.21	-16.11	-14.40	-15.56	-13.94	-15.70	-15.73	-14.97	-15.23	-15.54	-15.13	-15.41	-14.89
Θ(15°)	-10.79	-14.59	-15.37	-13.04	-10.31	-9.97	-9.70	-12.47	-15.53	-10.40	-13.70	-8.28	-5.90	-5.51	-6.73	-7.12	-8.86	-8.03	-7.26	-7.25	-6.58	-8.06	-9.75	-9.76
Θ(30°)	-4.86	-5.88	-9.32	-9.34	-6.96	-7.77	-4.53	-3.81	-5.60	-6.58	-1.67	-3.53	-6.98	-10.76	-8.57	-6.44	-7.26	-5.86	-3.74	-2.52	-4.20	-5.94	-7.10	-1.87
Θ(45°)	-2.37	-2.64	-3.85	-3.39	-2.68	-3.83	-2.38	-3.45	-7.11	-2.40	-3.07	-4.94	-5.53	-2.30	-0.43	-1.54	-3.91	-2.22	-2.63	-3.06	-7.30	-2.10	-3.40	-1.81
Θ(60°)	-0.83	-2.46	-2.79	-0.77	-2.69	-4.43	-2.20	-5.56	-4.40	-4.23	-3.82	1.38	1.50	0.24	0.05	-1.69	-0.21	-1.12	-0.55	-1.34	1.34	-3.36	-3.66	-2.97
Θ(75°)	0.69	-0.16	-0.77	-3.43	-0.53	-1.28	-2.32	-2.00	-0.48	0.43	-0.39	-1.61	-4.38	-2.95	-4.62	-1.82	-2.61	-6.93	-3.40	-4.51	-4.50	-2.48	-1.35	-2.40
Θ(90°)	-1.08	-4.67	-3.50	-3.38	-1.41	-1.09	-3.32	-3.19	-0.70	-0.84	-1.41	-0.38	1.79	-1.31	-0.35	-3.16	1.62	1.74	0.05	-0.22	-2.26	0.67	-3.33	-4.27
Θ(105°)	-0.71	-1.52	-0.97	0.67	-0.81	-2.13	-2.26	-4.66	-4.78	-1.55	-1.79	0.38	-0.09	-0.18	0.49	-1.84	-1.79	0.18	-2.21	-0.23	-6.89	-3.11	-3.12	-1.72
Θ(120°)	-2.13	-2.51	0.68	-2.52	-2.62	-3.08	-3.29	-0.69	-0.00	-0.61	0.16	-4.65	-6.55	-4.46	-6.69	-5.58	-6.46	-3.47	-4.17	-4.79	-7.92	-3.49	-0.45	-5.49
Θ(135°)	-5.32	-5.48	-4.45	-5.58	-1.95	-4.11	-5.16	-3.57	-3.53	-5.90	-1.34	-2.09	-0.47	-2.17	-3.48	-5.04	-7.83	-5.14	-3.50	-12.46	-8.33	-3.27	-2.14	
Θ(150°)	-3.56	-4.12	-5.95	-5.66	-5.84	-4.00	-3.66	-2.53	-2.14	-1.83	0.11	0.72	-0.50	-4.80	-13.48	-12.22	-15.91	-10.33	-11.15	-8.04	-9.30	-6.68	-6.24	-4.61
Θ(165°)	-5.51	-5.31	-8.21	-7.27	-7.76	-4.66	-5.47	-4.03	-3.06	-4.24	-4.79	-8.90	-9.68	-10.26	-12.43	-15.44	-14.25	-13.12	-13.65	-12.27	-9.30	-5.79	-6.89	-6.14
Θ(180°)	-8.46	-9.03	-7.55	-8.40	-9.08	-8.76	-8.70	-7.64	-6.36	-10.46	-13.40	-14.35	-15.11	-13.86	-8.49	-7.67	-8.57	-8.62	-6.79	-7.15	-6.64	-8.22	-10.12	-8.58
Freq(Hz)	5.785G	Pol.	Total	Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-13.99	-11.25	-13.19	-11.63	-15.09	-13.77	-14.32	-15.33	-14.56	-12.46	-9.96	-10.07	-10.10	-9.67	-12.55	-11.80	-13.60	-15.76	-14.92	-16.05	-13.71	-14.14	-13.44	-11.74
Θ(15°)	-10.79	-10.19	-7.55	-7.58	-5.49	-5.84	-7.26	-12.55	-13.71	-10.12	-9.71	-11.84	-12.26	-15.28	-13.90	-11.35	-9.30	-7.53	-9.32	-11.43	-12.40	-9.76	-7.56	-8.70
Θ(30°)	-12.60	-6.89	-9.31	-11.83	-5.14	-8.20	-11.14	-7.20	-4.00	-5.83	-11.39	-6.97	-6.85	-7.09	-7.18	-4.76	-4.06	-2.09	-2.31	-6.39	-8.85	-9.66	-6.81	-4.01
Θ(45°)	-6.76	-7.65	-4.79	-8.01	-8.86	-8.11	-6.88	-2.12	-2.62	-2.26	0.42	-3.22	-4.21	-2.43	-1.43	-1.69	-10.49	-5.79	-4.57	-4.58	-2.04	-2.83	-3.89	-2.09
Θ(60°)	-2.07	-4.44	-3.81	-3.12	-1.78	-5.99	-3.53	-3.68	-4.09	-4.66	-4.70	-3.36	0.12	-0.93	-2.03	-1.86	2.16	0.41	1.53	-0.24	1.14	-6.05	-2.85	-1.94
Θ(75°)	1.04	-2.31	-2.46	-0.47	-1.30	-3.99	-1.65	-0.85	0.12	1.67	-2.26	-1.79	0.18	-2.26	-0.01	-8.30	-11.51	-4.24	-4.73	-4.86	-1.56	-0.92	-3.02	
Θ(90°)	0.41	-2.13	-0.29	-3.76	-0.38	-0.42	-2.14	-1.95	-0.99	-0.58	-0.74	-1.15	2.71	-0.94	-0.50	-2.27	2.24	2.59	0.77	0.52	-2.31	-0.74	-1.90	-6.73
Θ(105°)	-1.01	-3.61	-2.11	-0.66	-0.14	-2.43	-2.85	-0.88	-2.11	-1.89	-3.31	-0.03	2.13	0.29	1.06	-1.69	-1.73	-0.87	-1.56	-0.26	-2.84	-3.74	-1.18	-2.69
Θ(120°)	-1.56	-3.09	-3.64	-3.64	-3.37	-2.07	-2.66	-2.34	-0.31	-0.36	1.24	-1.57	-6.31	-7.28	-5.08	-3.73	-2.16	-3.51	-3.17	-3.87	-7.10	-2.71	-2.24	-1.30
Θ(135°)	-3.96	-1.49	-1.27	-4.96	-2.01	-1.30	-4.28	-1.43	-1.06	-5.88	-2.11	-1.78	0.06	-2.78	-1.02	-1.67	-6.57	-9.92	-5.22	-3.59	-11.79	-8.21	-2.15	-2.37
Θ(150°)	-3.81	-2.58	-3.82	-3.68	-4.57	-3.83	-2.52	-1.77	0.53	-1.10	1.81	2.31	1.54	-2.37	-7.56	-8.83	-15.14	-7.65	-10.44	-6.07	-7.99	-4.84	-5.01	-4.67
Θ(165°)	-2.79	-3.87	-4.34	-5.06	-4.26	-3.73	-2.45	-2.38	-0.91	-1.65	-2.28	-6.07	-6.41	-8.32	-10.33	-13.36	-12.89	-10.83	-8.38	-9.72	-7.81	-7.01	-6.23	-3.90
Θ(180°)	-6.6																							

Θ(165°)	-11.40	-8.82	-5.10	-4.70	-7.74	-12.34	-15.62	-11.50	-10.95	-12.59	-12.08	-7.34	-7.47	-12.58	-11.66	-10.59	-12.13	-13.15	-15.19	-10.45	-10.20	-8.61	-9.21	-8.13
Θ(180°)	-12.10	-14.67	-13.33	-13.38	-10.93	-11.11	-11.44	-12.75	-12.49	-13.64	-12.81	-14.01	-11.40	-10.16	-9.11	-8.16	-9.89	-11.12	-13.07	-12.97	-11.17	-8.12	-7.97	-9.41
Freq(Hz)	5.3G	Pol.	Total	Ant. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-14.34	-15.81	-15.86	-15.00	-15.13	-14.67	-15.21	-15.57	-15.40	-14.21	-15.64	-15.01	-14.47	-13.88	-13.98	-15.50	-16.00	-13.85	-15.19	-15.64	-14.87	-14.94	-14.92	-15.16
Θ(15°)	-7.96	-8.41	-9.64	-10.31	-11.84	-10.29	-9.00	-7.81	-6.28	-5.85	-5.70	-6.79	-7.51	-8.50	-9.66	-11.82	-13.22	-12.75	-10.66	-12.70	-13.31	-11.30	-8.44	-8.86
Θ(30°)	-4.92	-10.71	-10.24	-6.70	-5.42	-6.46	-6.01	-1.95	-2.50	-3.79	-5.87	-4.51	-3.81	-5.25	-3.40	-3.14	-6.84	-8.64	-7.34	-10.13	-11.24	-8.38	-6.32	-5.38
Θ(45°)	-6.75	-5.63	-3.77	-0.98	-2.61	-4.59	-0.21	0.08	-1.78	-3.64	-3.37	-0.07	-2.21	-2.39	-2.92	-0.37	-2.20	-4.05	-2.70	-5.66	-6.11	-5.98	-4.59	-4.50
Θ(60°)	-3.34	-1.97	0.07	-1.22	1.25	0.54	-3.54	-0.29	0.69	-0.99	-0.14	-2.62	-3.36	-1.05	-3.62	-3.86	-3.17	-2.21	-2.08	-5.77	-4.64	-3.04	-2.52	-2.52
Θ(75°)	-1.78	0.07	-3.15	-1.33	-1.89	-0.90	-1.00	-0.63	-0.45	-1.58	-2.35	-1.28	-0.18	-0.46	-2.79	-1.52	-0.77	-0.69	-1.16	-0.82	-1.49	-1.97	-0.49	-1.55
Θ(90°)	-0.39	-1.71	-0.12	1.69	1.33	-0.35	-0.93	-2.09	-2.42	-2.53	-2.43	-2.47	-0.81	-2.03	-0.32	-0.39	-0.46	-0.49	0.80	-0.15	0.02	-3.10	-0.24	-1.36
Θ(105°)	-2.91	-2.67	0.76	-4.66	-0.56	-2.21	-4.76	-3.31	-2.47	-4.50	-3.65	-2.40	-0.44	-5.55	-2.53	2.05	-3.45	-1.40	-0.44	0.42	-0.98	-0.88	-0.31	-0.86
Θ(120°)	-2.41	-1.93	-2.47	-1.03	-6.77	-6.23	-13.35	-6.75	-7.10	-8.42	-4.99	-14.88	-2.08	-6.58	-4.71	-7.95	-3.94	-3.98	-2.19	-4.15	-3.84	-8.00	-2.02	-1.01
Θ(135°)	-5.04	-7.51	-4.66	-7.36	-9.54	-12.21	-7.66	-7.36	-7.51	-7.49	-9.40	-9.48	-9.28	-9.01	-7.59	-5.77	-11.80	-5.48	-6.95	-3.01	-4.62	-6.92	-5.48	-8.26
Θ(150°)	-11.34	-10.54	-8.30	-5.69	-9.10	-8.70	-10.69	-13.04	-11.84	-7.15	-9.86	-12.43	-8.89	-9.18	-9.48	-9.66	-6.44	-15.33	-15.51	-11.74	-9.49	-8.15	-6.25	-9.78
Θ(165°)	-12.97	-11.79	-7.43	-5.79	-5.35	-10.63	-15.57	-13.50	-13.77	-13.70	-10.96	-9.24	-9.24	-15.29	-12.28	-11.16	-13.98	-14.00	-15.55	-10.17	-10.17	-10.87	-9.18	-10.33
Θ(180°)	-14.20	-13.43	-15.05	-14.18	-13.11	-11.59	-12.68	-11.17	-12.58	-13.30	-15.04	-15.71	-11.81	-11.91	-11.42	-9.95	-11.50	-12.10	-12.86	-13.50	-11.10	-9.43	-10.61	-11.00
Freq(Hz)	5.6G	Pol.	Total	Ant. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-7.55	-9.34	-8.78	-8.74	-9.08	-7.88	-8.42	-8.63	-8.14	-8.19	-7.94	-8.47	-9.21	-9.33	-9.71	-9.88	-8.71	-8.43	-8.02	-8.30	-7.32	-8.37	-8.11	-10.00
Θ(15°)	-12.93	-9.52	-7.69	-7.93	-7.40	-6.10	-6.39	-8.09	-6.77	-7.01	-8.05	-8.31	-10.06	-8.93	-7.64	-7.18	-7.68	-8.51	-12.07	-13.34	-12.25	-13.97	-14.24	-15.41
Θ(30°)	-6.04	-1.70	-4.60	-6.20	-4.36	-3.68	-4.67	-7.32	-7.26	-8.58	-3.51	-4.88	-4.42	-2.64	-4.47	-5.12	-1.76	-2.40	-3.97	-4.16	-6.56	-9.35	-11.19	-6.41
Θ(45°)	-3.47	-2.74	-5.79	-4.94	-2.52	-7.54	-5.00	-2.78	-1.98	-3.08	0.41	-1.52	-1.05	-5.26	-1.70	-3.80	-2.94	-0.52	-2.93	-2.69	-4.55	-3.58	-4.61	-4.57
Θ(60°)	-2.31	-2.59	-1.46	-3.41	0.34	1.31	-0.41	-3.15	-0.50	-0.50	-1.53	-1.63	-3.68	-0.78	-3.48	-3.07	-4.39	-3.04	-3.46	-4.95	-3.81	-1.93	-2.37	-2.62
Θ(75°)	-1.10	-0.47	-0.93	-0.18	-3.73	-3.51	-1.14	-1.28	-1.53	-2.09	-0.46	-0.03	-0.83	-1.21	-1.61	-2.36	-2.21	-1.84	-1.05	-1.41	-0.55	-1.81	-1.61	-1.10
Θ(90°)	-0.14	-0.49	-0.18	-0.13	0.67	0.62	-0.65	-0.23	0.27	-0.66	1.19	-1.17	-1.14	-3.57	0.21	0.15	0.16	-1.92	-2.26	1.72	0.21	-2.91	-0.77	-2.07
Θ(105°)	-1.20	-3.15	-1.96	-3.92	-1.45	-2.10	-5.53	-4.06	-2.43	-3.31	-1.90	-1.35	-1.66	-3.42	-3.59	-2.62	-3.66	-1.55	-4.22	-0.31	-1.21	-4.18	-2.53	-2.17
Θ(120°)	-1.89	-5.58	0.63	-3.65	-3.34	-6.95	-7.06	-4.03	-4.92	-11.12	-3.16	-7.39	-1.36	-10.01	-4.99	-1.59	-3.01	-1.85	-4.22	-0.39	-5.29	-1.77	-0.86	-2.77
Θ(135°)	-4.62	-4.80	-7.57	-5.41	-6.81	-10.74	-12.36	-6.71	-6.88	-5.02	-9.81	-9.12	-9.18	-8.05	-9.01	-8.66	-5.22	-3.91	-8.35	-4.90	-3.79	-7.41	-2.53	-4.21
Θ(150°)	-12.55	-8.73	-11.26	-5.91	-8.14	-9.63	-14.81	-15.44	-11.44	-9.15	-10.44	-12.12	-10.54	-7.65	-9.88	-8.59	-10.16	-15.08	-11.88	-7.34	-11.07	-15.05	-9.36	-7.32
Θ(165°)	-8.87	-8.51	-7.85	-7.03	-6.91	-7.69	-10.47	-12.08	-14.78	-13.92	-12.76	-9.58	-11.99	-11.21	-13.27	-14.36	-13.12	-12.17	-11.47	-8.81	-6.92	-6.67	-7.49	-9.22
Θ(180°)	-15.26	-14.60	-14.92	-14.83	-12.63	-12.97	-10.58	-11.22	-13.54	-13.89	-15.00	-15.57	-15.29	-15.32	-13.42	-13.67	-14.79	-13.09	-14.35	-15.33	-13.90	-11.43	-11.47	-10.73
Freq(Hz)	5.785G	Pol.	Total	Ant. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-12.44	-12.26	-9.21	-11.05	-12.27	-10.04	-9.13	-10.55	-10.29	-9.01	-10.86	-9.62	-10.61	-10.22	-12.33	-12.14	-12.16	-10.60	-9.08	-10.45	-9.88	-10.90	-11.39	-9.63
Θ(15°)	-8.97	-10.80	-11.04	-11.23	-8.69	-8.36	-8.67	-8.93	-8.62	-9.22	-11.38	-11.17	-10.83	-6.60	-6.83	-6.83	-5.67	-8.31	-10.31	-10.64	-8.24	-9.14	-7.79	-10.54
Θ(30°)	-6.91	-4.69	-6.09	-6.44	-6.79	-2.43	-3.31	-7.67	-8.41	-6.64	-3.59	-4.29	-1.69	-1.91	-6.64	-6.53	-3.63	-5.78	-7.35	-12.31	-10.18	-5.38	-9.24	-8.96
Θ(45°)	-4.42	-2.82	-4.58	-4.73	-0.65	-3.61	-4.64	-3.14	-3.34	-2.87	0.61	-0.73	-1.26	-3.82	-0.89	-1.87	-0.63	-1.18	-2.28	-3.24	-6.63	-3.15	-4.45	-3.32
Θ(60°)	-2.36	-1.41	-0.45	-2.05	-2.23	1.47	0.35	-2.13	-1.53	-0.42	0.69	-3.08	-2.79	-2.47	-0.89	-3.10	-5.47	-0.99	-2.98	-1.84	-7.14	-2.89	-4.23	-3.06
Θ(75°)	-1.07	0.12	-1.73	-0.41	-2.35	-3.69	-2.03	-0.96	-1.00	-2.53	-0.62	0.19	-1.12	-1.61	-1.19	-1.51	-2.40	-0.52	-1.81	-0.60	-1.36	-1.89	0.05	-0.80
Θ(90°)	0.58	-0.48	-2.11	0.82	2.53	0.87	0.34	-0.70	0.86	0.55	1.20	-1.12	-1.21	-2.66	-0.83	-0.72	-0.48	1.18	-1.42	1.76	0.81	-4.38	-0.39	-2.19
Θ(105°)	0.58	-2.03	-3.07	-1.80	0.14	-3.53	-4.19	-4.73	-2.35	-1.46	-1.85	-1.25	-1.89	-2.44	-0.04	-2.38	-1.06	1.10	-2.64	0.93	-2.47	-2.47	-1.46	-1.89
Θ(120°)	-2.47	-4.21	-0.26	-2.75	-3.30	-5.59	-9.21	-4.78	-7.55	-10.96	-2.46	-4.75	-3.25	-7.09	-2.20	-0.60	-7.25	-1.16	-5.45	0.83	-2.16	-3.35	-1.38	-3.12
Θ(135°)	-3.30	-2.44	-5.92	-3.76	-3.86	-9.63	-8.43	-7.71	-7.16	-6.00	-10.41	-5.33	-8.01	-4.79	-6.42	-8.06	-4.47	-4.31	-8.68	-5.37	-5.64	-9.93	-0.13	-2.96
Θ(150°)	-10.76	-9.43	-9.60	-5.26	-7.10	-8.52	-9.39	-15.38	-12.85	-7.66	-9.25	-10.19	-7.06	-8.29	-8.24	-10.72	-9.93	-10.03	-15.75	-11.60	-9.24	-11.16	-7.21	-6.83
Θ(165°)	-8.30	-9.57	-7.75	-6.60	-8.24	-9.74	-10.99	-14.56	-12.88	-11.54	-14.22	-8.36	-9.25	-10.66	-9.28	-10.78	-11.72	-12.16	-14.01	-8.24	-7.40	-8.32	-6.42	-8.70
Θ(180°)	-12.65	-13.79	-13.70	-14.91	-14.22	-14.70	-12.61	-12.76	-10.82	-12.67	-14.19	-14.86	-13.59	-13.74	-14.41	-15.73	-15.58	-14.93	-15.21	-12.26	-12.57	-12.88	-11.33	-
Freq(Hz)	5.2G	Pol.	Total	Ant. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-8.39	-7.06	-8.00	-9.45	-7.71	-9.16	-9.28	-7.62	-8.77	-8.88	-7.69	-7.88	-8.12	-9.58	-8.60	-7.64	-8.30	-6.71	-6.98	-7.37	-7.30	-8.79	-8.94	-8.89
Θ(15°)	-6.59	-5.08	-5.07	-4.36	-4.82	-6.44	-6.72	-9.05	-12.93	-13.67	-15.34	-11.35	-8.27	-8.87	-12.44	-14.90	-13.66	-13.44	-14.87	-12.99	-10.09	-9.06	-8.44	-6.74
Θ(30°)	-8.01	-6.63	-12.36	-4.59	-6.03	-6.66	-5.33	-6.53	-6.87	-8.93	-4.46	-9.33	-6.63	-7.96	-10.26	-4.30	-5.21	-5.82	-7.71	-7.39	-8.27	-4.67	-3.13	-7.27
Θ(45°)	-2.78	-2.53	-3.47	-5.35	-3.89	-4.70	-6.24	-4.57	-5.99	-4.83	-2.25	-0.83	-3.07	-3.51	-3.79	-2.65	-4.93	-4.61	-4.51	-3.72	-3.70			

Θ(45°)	-2.64	-2.90	-2.23	-4.81	-3.59	-4.40	-3.10	-5.19	-6.43	-4.27	-2.01	-0.74	-5.91	-2.87	-2.23	-3.20	-2.32	-3.77	-4.43	-3.36	-3.78	-3.84	-2.92	-7.11
Θ(60°)	-3.17	-2.51	-3.31	-0.75	-0.39	-0.88	-0.43	-3.04	0.43	0.85	-2.33	-1.69	-0.20	0.13	-2.24	-3.08	-3.15	-6.29	-3.96	-3.29	-5.97	-2.97	-4.32	-0.47
Θ(75°)	1.10	-0.50	-3.12	0.04	-0.52	-0.16	-0.58	-1.05	0.09	-1.93	-1.46	0.12	-0.46	0.32	0.41	-1.23	-0.72	-1.27	0.34	-3.01	-1.07	-2.41	-0.78	-1.60
Θ(90°)	1.79	-1.09	-2.33	-3.02	0.73	-4.57	-0.96	-1.28	-0.69	-2.48	-0.59	-0.39	-2.71	1.37	-2.98	-0.32	0.21	0.24	-0.68	1.37	-0.45	1.20	-4.13	-0.96
Θ(105°)	-2.00	-1.07	-7.39	-2.48	-0.12	-2.58	-1.01	-3.07	-0.87	1.38	-1.10	1.34	0.76	-0.72	-0.60	-0.53	-2.06	-1.05	-0.99	0.06	-3.75	-1.46	-5.34	-1.22
Θ(120°)	-0.13	-3.16	-7.52	-3.16	-7.30	-6.75	-5.85	-10.33	-6.73	-3.79	-5.69	-5.14	-5.23	-0.80	-1.14	-7.00	-0.85	-4.11	-7.23	0.05	-5.75	-1.28	-6.19	-4.26
Θ(135°)	-4.54	-14.48	-7.91	-7.67	-6.18	-4.40	-7.82	-13.04	-9.74	-11.35	-7.30	-9.88	-6.53	-4.17	-13.14	-6.26	-7.92	-3.51	-4.74	-2.25	-9.97	-5.92	-9.28	-5.01
Θ(150°)	-5.23	-6.74	-12.36	-11.28	-13.51	-11.96	-10.61	-12.33	-9.24	-5.55	-5.73	-8.18	-3.69	-4.61	-6.01	-6.24	-5.78	-8.84	-13.45	-9.55	-6.81	-9.71	-5.99	-5.63
Θ(165°)	-15.61	-9.64	-11.29	-12.20	-12.54	-11.30	-9.19	-12.43	-10.44	-6.76	-7.93	-9.93	-8.46	-10.28	-11.32	-11.13	-11.45	-14.16	-13.26	-9.33	-8.58	-8.94	-9.68	-14.82
Θ(180°)	-9.55	-12.47	-10.72	-9.62	-8.49	-8.71	-7.85	-9.36	-9.43	-9.25	-8.67	-8.61	-7.25	-8.27	-7.59	-7.54	-7.60	-7.15	-6.30	-8.24	-9.18	-10.65	-10.16	-9.19
Freq(Hz)	5.6G	Pol.	Total	Ant. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-11.91	-11.36	-10.31	-12.47	-12.46	-10.06	-11.65	-12.28	-11.61	-11.54	-9.89	-12.28	-12.32	-10.65	-10.01	-12.40	-12.82	-9.79	-10.54	-11.18	-8.17	-10.50	-9.52	-10.98
Θ(15°)	-7.85	-7.17	-7.75	-6.39	-6.10	-5.74	-5.98	-6.92	-8.07	-10.29	-12.32	-9.01	-8.22	-8.01	-7.51	-9.58	-12.13	-10.63	-11.34	-11.21	-11.72	-14.27	-13.84	-12.18
Θ(30°)	-5.80	-6.38	-4.38	-14.68	-6.66	-3.93	-7.61	-7.62	-6.59	-8.58	-7.78	-4.62	-5.58	-7.04	-5.87	-4.10	-2.22	-10.00	-9.66	-10.34	-5.97	-6.40	-11.99	-7.69
Θ(45°)	-4.92	-1.74	-1.41	-0.16	-4.35	-2.14	-2.23	-4.95	-6.62	-2.86	-3.10	-4.30	-0.83	-2.08	-3.88	-3.77	-3.11	-7.07	-3.65	-4.71	-3.46	-2.16	-1.29	-4.12
Θ(60°)	-3.31	-2.50	-5.43	-0.94	-2.20	-2.62	-1.30	-0.70	1.54	-0.56	-1.22	-0.46	-3.66	-0.16	-2.01	-1.77	-2.88	-2.03	-3.65	-2.27	-3.70	-2.50	-1.34	-2.59
Θ(75°)	-0.08	-0.54	-0.74	-1.81	-2.29	-0.76	-0.19	-1.20	-0.49	-1.00	1.15	-1.10	0.12	0.85	-1.02	-1.24	-0.71	-0.15	-0.17	0.86	-1.74	-0.19	-3.09	-1.99
Θ(90°)	1.72	0.19	-3.25	-2.35	0.54	-1.28	-1.42	-2.47	-1.60	-1.88	-0.44	-1.55	-4.37	-1.85	-4.13	-0.98	0.10	1.14	-2.57	1.23	0.58	2.18	-1.14	-0.50
Θ(105°)	-1.92	-1.00	-5.51	-3.75	-4.62	-3.07	-1.35	-4.44	-0.07	0.02	0.67	-0.57	-2.23	-1.54	-5.58	-0.85	-1.30	-1.13	-0.87	0.42	-3.07	-2.61	-4.69	-2.57
Θ(120°)	-2.81	-1.14	-4.00	-4.56	-7.97	-5.47	-3.87	-13.04	-9.94	-5.06	-5.28	-2.48	-3.89	-2.46	-2.56	-2.74	-1.54	-3.51	-7.88	1.04	-4.85	-1.47	-4.73	-2.85
Θ(135°)	-4.62	-10.76	-6.46	-10.07	-6.54	-6.17	-6.95	-15.26	-11.19	-11.53	-8.60	-5.07	-7.30	-6.26	-11.79	-8.80	-2.94	-6.11	-14.65	-4.65	-6.74	-6.71	-10.84	-5.92
Θ(150°)	-4.22	-6.57	-11.96	-11.19	-11.46	-13.06	-15.21	-10.00	-4.97	-4.62	-6.74	-6.91	-7.44	-4.69	-7.80	-5.26	-8.31	-14.35	-14.26	-4.97	-7.78	-13.66	-6.33	-5.68
Θ(165°)	-15.69	-13.80	-14.63	-12.10	-12.85	-11.33	-13.84	-16.20	-10.77	-7.95	-8.05	-9.18	-10.69	-10.83	-9.93	-12.13	-11.90	-11.61	-9.03	-9.67	-11.45	-9.46	-9.78	-13.48
Θ(180°)	-10.92	-12.81	-11.95	-11.51	-9.79	-8.99	-12.24	-9.58	-9.10	-10.44	-10.34	-9.99	-10.80	-10.30	-10.54	-10.71	-9.37	-10.61	-10.37	-10.72	-11.51	-10.43	-10.59	-8.47
Freq(Hz)	5.785G	Pol.	Total	Ant. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)	Φ(15°)	Φ(30°)	Φ(45°)	Φ(60°)	Φ(75°)	Φ(90°)	Φ(105°)	Φ(120°)	Φ(135°)	Φ(150°)	Φ(165°)	Φ(180°)	Φ(195°)	Φ(210°)	Φ(225°)	Φ(240°)	Φ(255°)	Φ(270°)	Φ(285°)	Φ(300°)	Φ(315°)	Φ(330°)	Φ(345°)
Θ(0°)	-11.32	-9.17	-9.39	-7.04	-9.67	-8.59	-8.47	-9.69	-9.75	-10.29	-10.07	-10.52	-9.26	-9.21	-10.18	-8.71	-10.37	-10.15	-10.93	-7.58	-10.49	-9.61	-10.37	-9.62
Θ(15°)	-10.30	-9.31	-9.36	-10.09	-9.43	-11.30	-10.11	-10.85	-13.43	-14.85	-11.58	-9.18	-7.39	-6.66	-9.89	-10.36	-10.69	-9.32	-8.55	-7.17	-7.26	-8.06	-9.57	-10.78
Θ(30°)	-4.86	-6.49	-3.32	-3.77	-9.54	-5.82	-6.84	-9.25	-6.74	-11.99	-5.14	-3.41	-5.80	-4.31	-7.53	-4.16	-4.51	-7.13	-3.47	-6.97	-6.61	-6.75	-7.85	-7.99
Θ(45°)	-4.03	-1.57	-2.51	-0.53	-4.71	-5.75	-2.98	-3.38	-6.60	-2.30	-1.41	-2.50	-0.98	-3.61	-2.23	-3.95	-4.85	-3.47	-3.68	-6.39	-4.53	-3.33	-3.52	-2.51
Θ(60°)	-2.33	-2.22	-2.88	-0.72	-1.87	-3.73	-2.56	-1.06	0.40	-1.37	-0.89	-1.32	-2.80	0.68	-0.22	-2.99	-0.94	-4.34	-1.77	-2.65	-2.56	-4.19	-0.90	-0.68
Θ(75°)	-1.59	-0.97	-1.32	-3.78	-0.74	-0.16	0.69	-1.56	-3.21	-0.93	-2.04	-0.50	2.02	0.67	-0.81	-2.16	-2.19	0.84	0.24	0.78	-1.04	-2.36	-2.71	-0.68
Θ(90°)	0.94	-1.28	0.95	-0.32	0.00	-0.45	-1.04	-0.22	-1.44	-0.97	-2.64	-2.04	-0.25	-1.29	-0.20	-0.17	0.35	-0.06	0.68	-0.59	-0.30	1.21	-0.01	-1.76
Θ(105°)	-1.04	-3.32	-2.00	-4.09	-4.91	-2.20	-1.02	-3.79	-2.45	0.49	-1.28	-1.54	0.46	-2.32	-2.33	-5.43	-0.73	-2.69	-1.08	-1.06	-3.08	-2.00	-2.17	-2.32
Θ(120°)	-2.82	-2.15	-2.90	-3.83	-7.88	-6.07	-1.89	-10.70	-11.16	-4.84	-5.87	-0.95	-3.27	-4.27	-3.05	-4.16	-0.38	-7.35	-3.41	0.29	-4.86	-1.67	-3.76	-1.03
Θ(135°)	-4.38	-9.89	-4.01	-7.83	-6.60	-4.07	-6.17	-8.68	-11.97	-8.26	-5.66	-4.19	-7.87	-6.50	-12.41	-9.17	-4.90	-4.80	-11.38	-1.78	-13.69	-3.38	-6.72	-4.16
Θ(150°)	-2.89	-9.58	-8.91	-15.28	-11.89	-10.40	-15.76	-13.77	-3.24	-5.59	-6.33	-8.33	-6.24	-2.94	-4.45	-8.50	-12.03	-10.72	-9.83	-4.77	-7.33	-8.75	-4.91	-4.43
Θ(165°)	-15.42	-12.81	-10.19	-12.54	-12.78	-11.31	-14.95	-14.84	-9.07	-8.25	-8.45	-8.59	-7.93	-10.00	-9.15	-15.52	-13.57	-15.29	-7.72	-6.85	-10.42	-14.95	-10.55	-12.15
Θ(180°)	-12.12	-13.34	-12.14	-13.03	-13.92	-11.40	-11.16	-11.91	-13.68	-11.78	-11.71	-11.45	-12.94	-11.88	-11.87	-12.94	-12.20	-12.80	-13.48	-13.24	-10.29	-10.86	-13.35	-10.50

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 $\Theta(0-180)\Phi(270)$

