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Freq(Hz)	2.45G	5.2G	5.3G	5.6G	5.785G
Ant. 1 Max Gain (dBi)	2.99	2.33	2.99	4.08	4.06
Ant. 2 Max Gain (dBi)	3.28	1.27	1.18	1.51	2.11
Ant. 3 Max Gain (dBi)		5.01	4.1	3.76	3.67
Ant. 4 Max Gain (dBi)		4.09	3.32	2.64	4.21
Ant. 1 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/112.5/232.5	Phi/150/82.5	Phi/135/97.5	Phi/142.5/97.5	Phi/142.5/97.5
Ant. 2 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Phi/75/225	Theta/82.5/240	Theta/82.5/232.5	Theta/105/270	Theta/120/345
Ant. 3 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$		Phi/127.5/195	Phi/127.5/0	Phi/127.5/0	Phi/157.5/172.5
Ant. 4 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$		Phi/30/0	Phi/30/352.5	Phi/37.5/352.5	Phi/135/0
Max Gain (dBi)	3.28	5.01	4.1	4.08	4.21
DG [1SS] (dBi)	3.61	5.11	5.21	4.93	4.77
DG [2SS] (dBi)	3.28	5.01	4.1	4.08	4.21
DG [4SS] (dBi)		5.01	4.1	4.08	4.21



Radiated Composite Gain Data

Appendix A

DG 1SS Result

Freq(Hz)	2.45GPol.	PhiL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-5.06/-3.63	-2.46/-1.6	-0.83/-0.11	0.49/0.96	1.29/1.48	1.62/1.7	1.66/1.47	1.15/0.75	0.15/-0.65	-1.67/-2.86	-4.19/-5.82	-7.7/-9.06	-9.47/-7.56	-5.72/-4.22	-2.98/-2.04	-1.22/-0.54	0.04/0.45	0.71/0.81	0.78/0.68	0.44/0.08	-0.46/-1.25	-2.35/-3.71	-5.35/-7.06	-7.66/-6.74
Θ(7.5°)	-5.2/-3.93	-2.97/-2.24	-1.52/-0.84	-0.16/0.43	0.86/1.24	1.56/1.85	1.98/1.91	1.85/1.26	0.64/-0.22	-1.37/-2.78	-4.51/-6.71	-9.41/-10.84	-9.7/-7.22	-5.27/-3.78	-2.61/-1.67	-0.87/-0.24	0.23/0.51	0.63/0.6	0.50/3.1	-0.05/-0.53	-1.19/-2.08	-3.23/-4.55	-6.03/-7.47	-7.29/-6.62
Θ(15°)	-6.24/-4.9	-3.91/-3.15	-2.44/-1.79	-1.14/-0.45	0.17/0.73	1.25/1.67	1.92/1.93	1.69/1.31	0.71/-0.15	-1.36/-2.99	-5.09/-8.01	-12.05/-13	-10.6/-7.55	-5.31/-3.67	-2.35/-1.3	-0.46/0.13	0.53/0.72	0.73/0.65	0.45/0.11	-0.42/-1.12	-2/-3.12	-4.52/-6.21	-8.06/-9.66	-8.9/-7.87
Θ(22.5°)	-6.72/-5.22	-4.17/-3.3	-2.49/-1.8	-1.24/-0.68	-0.08/0.53	1.1/1.55	1.75/1.68	1.35/0.86	0.18/-0.74	-2.13/-4.13	-7.05/-11.64	-15.42/-14.77	-10.38/-6.93	-4.67/-2.97	-1.68/-0.73	-0.04/0.45	0.76/0.92	0.92/0.78	0.45/-0.05	-0.73/-1.53	-2.47/-3.63	-5.12/-6.98	-9.35/-10.82	-10.09/-8.56
Θ(30°)	-5.86/-4.45	-3.34/-2.35	-1.49/-0.87	-0.43/-0.03	0.43/0.97	1.45/1.75	1.79/1.55	1.06/0.45	-0.33/-1.29	-2.64/-4.57	-7.4/-11.35	-15.14/-13.51	-9.07/-6.21	-4.18/-2.7	-1.61/-0.81	-0.23/0.15	0.43/0.58	0.59/0.38	-0.1/-0.84	-1.81/-2.89	-4.03/-5.31	-6.81/-8.6	-10.69/-11.09	-9.73/-7.41
Θ(37.5°)	-6.33/-4.79	-3.46/-2.39	-1.53/-0.99	-0.63/-0.17	0.43/1.08	1.55/1.73	1.57/1.1	0.42/-0.37	-1.36/-2.54	-3.75/-5.53	-7.51/-9.77	-10.13/-7.71	-5.56/-3.97	-2.8/-1.95	-1.27/-0.8	-0.5/-0.36	-0.35/-0.37	-0.52/-0.95	-1.81/-3.07	-4.58/-6.12	-7.75/-9.4	-10.78/-12.51	-14.33/-14.51	-10.67/-8.03
Θ(45°)	-7.77/-6.53	-5.31/-4.23	-3.44/-3.02	-2.63/-1.79	-0.67/0.36	1/1.15	0.90/2.4	-0.67/-1.73	-2.95/-4.17	-5.18/-5.9	-6.43/-6.75	-6.45/-5.37	-4.12/-3.05	-2.21/-1.54	-1.06/-0.78	-0.68/-0.65	-0.46/-0.21	-0.13/-0.29	-0.55/-0.78	-1.16/-1.79	-2.66/-3.77	-5.27/-7.38	-9.73/-11.06	-10.77/-9.13
Θ(52.5°)	-5.31/-4.9	-4.62/-4.52	-4.6/-4.7	-4.61/-3.42	-1.59/0.05	1.1/1.55	1.47/0.94	0.07/-1.04	-2.25/-3.42	-4.11/-4.69	-4.86/-4.91	-5.07/-5	-4.62/-3.94	-3.22/-2.63	-2.29/-2.17	-1.51/-0.3	0.71/1.38	1.77/1.89	1.89/1.79	1.46/0.84	0.04/-0.94	-2.19/-3.71	-5.41/-6.48	-6.38/-5.78
Θ(60°)	-3.41/-3.44	-3.56/-3.68	-4.04/-4.64	-4.97/-4.09	-2.15/-0.16	1.25/2	2.16/1.92	1.31/0.41	-0.9/-2.34	-3.75/-4.51	-5.18/-5.72	-6.7/-7.54	-7.23/-6.08	-4.67/-3.47	-2.53/-1.91	-1.36/-0.78	-0.08/0.57	1.04/1.28	1.34/1.13	0.52/-0.34	-1.35/-2.35	-3.25/-4.04	-4.73/-4.9	-4.25/-3.59
Θ(67.5°)	-5.68/-4.95	-4.51/-4.49	-5.43/-7.53	-10.67/-11.29	-7.83/-4.3	-1.97/-0.74	-0.42/-0.57	-0.92/-1.43	-2.33/-3.61	-4.04/-4.35	-5.28/-6.78	-7.54/-6.97	-5.52/-3.65	-1.63/0.17	1.37/1.66	1.03/-0.31	-0.66/-0.47	-0.18/0.16	0.19/-0.49	-1.81/-3.37	-4.71/-5.65	-6.35/-7.24	-7.79/-7.79	-7.6/-6.58
Θ(75°)	-6.45/-5.02	-3.97/-3.63	-4.3/-5.97	-8.05/-10.42	-13.38/-10.17	-5.87/-3.86	-3.18/-2.86	-2.42/-2.11	-2.22/-2.54	-2.31/-2.3	-3.58/-5.41	-7.6/-7.74	-7.18/-4.87	-1.82/0.65	2.12/47	1.78/0.44	0.52/0.82	1.28/1.8	1.76/0.81	-0.69/-1.79	-2.25/-2.79	-4.08/-6.32	-8.41/-8.34	-7.82/-7.49
Θ(82.5°)	-6.02/-5.04	-4.11/-3.83	-4.4/-5.59	-7.23/-9.45	-12.54/-9.4	-4.97/-2.85	-1.96/-1.47	-1.17/-1.26	-1.91/-2.28	-2.8/-3.39	-4.98/-7.52	-9.27/-10.2	-7.7/-3.5	-0.41/-1.61	2.57/2.53	1.46/2.03	0.18/-0.2	-0.73/-0.76	-1.32/-3.37	-3.2/-1.82	-1.28/-1.65	-2.96/-5.17	-6.94/-6.68	-6.25/-6.17
Θ(90°)	-9.71/-8.31	-6.63/-6.01	-6.35/-6.9	-7.2/-8.4	-10.45/-8.76	-4.77/-2.54	-1.45/-0.76	-0.28/-0.31	-0.96/-2.02	2.82/-3.92	-5.61/-6.85	-8.78/-7.74	-4.87/-2.04	0.29/1.84	2.62/2.64	1.85/0.42	-0.5/-1.16	-2.8/-4.69	-4.85/-2.41	-0.78/-0.08	-0.23/-1.3	-3.31/-6.19	-9.32/-10.06	-9.43/-9.75
Θ(97.5°)	-5.89/-5.21	-4.88/-5.12	-5.66/-5.9	-5.89/-7.08	-11.24/-14.8	-11.8/-8.87	-6.87/-5.12	-3.59/-2.74	-2.75/-3.45	-4.27/-4.93	-5.85/-7.74	-6.73/-6.96	-4.58/-2.52	-0.65/-0.59	1.05/0.66	-0.44/-0.9	-0.95/-1.84	-3.32/-4.3	-1.31/-1.46	-0.72/-0.79	-1.68/-3.81	-7.41/-12.93	-13.71/-9.71	-7.55/-6.82
Θ(105°)	-6.48/-5.71	-5.54/-5.84	-6.37/-6.04	-4.75/-3.8	-3.52/-2.83	-2.33/-1.89	-1.39/-0.89	-0.56/-0.36	-0.55/-1.01	-1.53/-2.15	-3.24/-3.53	-6.94/-7.19	-6.5/-5.11	-3.2/-2.02	-1.77/-1.4	-1.73/-0.55	-1.08/-2.16	-3.14/-2.91	-1.91/-1.45	-1.95/-3.08	-4.91/-5.52	-13.58/-12.54	-10.36/-9.12	-7.93/-7.17
Θ(112.5°)	-6.72/-5.48	-5/-5.28	-6.07/-6.13	-5.05/-3.89	-3.1/-2.41	-1.76/-1.01	-0.17/0.43	0.58/0.29	-0.19/-0.68	-1.24/-2.23	-4.04/-6.45	-7.74/-8.29	-7.52/-6.73	-6.35/-5.05	-3.28/-1.78	-1.12/-1.26	-2.5/-4.91	-6.58/-5.2	-4.04/-4.1	-5.33/-7.13	-10.17/-12.3	-10.75/-8.29	-7.22/-7.14	-7.53/-7.23
Θ(120°)	-9.91/-9.16	-6.9/-5.42	-4.53/-3.99	-3.61/-3.17	-2.67/-1.88	-0.89/0.24	1.11/1.5	1.33/0.73	0.03/-0.45	-0.97/-2.1	-4.32/-6.03	-6.73/-6.03	-5.83/-6.55	-7.04/-4.55	-2.15/-0.48	0.51/0.66	-0.28/-2.33	-5.29/-6.99	-7.9/-9.95	-13.25/-15.2	-15.01/-14.04	-10.91/-8.71	-7.78/-7.27	-7.88/-9.03
Θ(127.5°)	-8.34/-8.11	-6.26/-4.05	-2.75/-2.35	-2.42/-2.6	-2.57/-2.16	-1.39/-0.57	-0.08/-0.13	-0.73/-1.7	-2.69/-3.48	-4.43/-6.11	-6.92/-8.65	-6.35/-5.74	-1.73/-3.5	-7.38/-5.75	-3.83/-2.22	-1.27/-1.18	-1.99/-3.45	-5/-6.08	-7.35/-9.51	-12.44/-15.52	-15.52/-14.49	-11.95/-8.42	-5.92/-4.6	-4.57/-5.85
Θ(135°)	-5.05/-6.36	-6.8/-5.93	-5.2/-4.38	-4.07/-3.68	-2.85/-1.66	-0.48/0.46	1.02/1.22	1.04/0.48	-0.5/-1.92	-3.73/-5.5	-6.02/-5.2	-4.24/-3.78	-3.83/-4.04	-3.88/-2.83	-2.09/-1.88	-2.27/-3.18	-4.8/-5.85	-6.18/-7.27	-8.8/-11.88	-15.35/-14.43	-11.95/-9.38	-7.64/-6.08	-4.5/-3.43	-3.14/-3.79
Θ(142.5°)	-6.07/-6.76	-6.11/-4.44	-2.83/-1.51	-0.51/0.32	1.05/1.78	2.44/3	3.38/3.59	3.61/4.42	2.97/2.27	1.40/56	0.01/-0.25	-0.5/-0.96	-1.54/-1.59	-1.1/-0.68	-0.61/-0.99	-1.88/-3.06	-4.37/-5.47	-6.5/-8.11	-10.83/-14.17	-15.05/-11.21	-8.73/-6.73	-7.34/-7.05	-6.27/-5.46	-5.1/-5.42
Θ(150°)	-7.23/-5.98	-4.09/-2.36	-1.99/-1.99	0.91/1.33	1.48/1.53	1.55/1.59	1.64/1.66	1.61/1.41	1.08/0.64	0.05/-0.56	-1.09/-1.46	-1.84/-2.2	-1.28/-1.68	-1.51/-1.02	-1.34/-1.97	-2.95/-4.04	-5.12/-6.09	-7.06/-8.32	-9.29/-9.7	-8.39/-7.03	-6.6/-6.89	-7.83/-8.85	-9.12/-8.64	-8.09/-7.94
Θ(157.5°)	-8.71/-6.62	-4.89/-3.52	-2.44/-1.79	-1.53/-1.67	-2.18/-2.91	-3.63/-4.13	-4.41/-4.63	-5.08/-5.74	-6.5/-7.22	-7.91/-8.43	-7.98/-7.04	-6.35/-5.36	-4.43/-3.89	-3.79/-4.03	-4.65/-5.42	-6.33/-7.28	-8.03/-8.41	-8.44/-8.51	-8.84/-9.07	-8.99/-8.97	-9.43/-10.57	-12.41/-14.86	-15.5/-13.71	-12.28/-10.57
Θ(165°)	-9.68/-8.77	-8.27/-7.88	-8.02/-8.71	-9.91/-11.36	-11.89/-10.52	-8.35/-6.6	-5.41/-4.69	-4.41/-5.42	-5.02/-5.77	-6.78/-8.09	-9.69/-10.6	-11.04/-11.63	-10.62/-9.88	-9.3/-8.86	-8.52/-8.24	-8.08/-8.19	-8.47/-8.56	-8.64/-8.84	-9.75/-10.03	-10.52/-11.37	-12.27/-12.86	-12.33/-13.61	-11.71/-11.98	-11.89/-10.92
Θ(172.5°)	-8.16/-8.78	-9.73/-9.44	-12.23/-13.94	-12.28/-9.14	-6.52/-4.41	-2.82/-1.64	-0.86/-0.37	-0.51/-0.16	-0.42/-0.84	-1.41/-2.13	-2.03/-4.19	-5.46/-6.62	-10.94/-8.62	-8.63/-8.16	-7.4/-6.74	-6.24/-6.68	-6.06/-6.16	-6.33/-6.51	-6.67/-6.71	-6.77/-6.69	-6.53/-6.25	-5.97/-5.82	-5.92/-6.47	-7.22/-7.59
Θ(180°)	-6.02/-6.51	-6.8/-6.46	-5.93/-5.12	-4.01/-2.77	-1.71/-0.8	-0.10/-0.44	0.76/0.81	0.91/0.73	0.37/-0.08	-0.58/-1.14	-1.79/-2.61	-3.53/-4.53	-5.48/-6.42	-7.21/-7.78	-8.08/-8.05	-7.81/-7.46	-7/-6.42	-5.78/-5.13	-4.44/-3.78	-3.18/-2.72	-2.39/-2.19	-2.13/-2.28	-2.71/-3.48	-4.53/-5.6
Freq(Hz)	2.45GPol.	PhiL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	0.34/-0.04	-0.58/-1.24	-2.05/-2.94	-3.83/-4.9	-6.23/-7.87	-8.82/-9.76	-9.3/-7.3	-5.61/-4.37	-3.41/-2.62	-1.93/-1.35	-0.91/-0.57	-0.33/-0.18	-0.18/-0.33	-0.71/-1.25	-1.96/-2.77	-3.71/-4.88	-6.29/-7.85	-9.28/-9.11	-8.59/-6.75	-5.22/-3.92	-2.78/-1.83	-1.04/-0.41	0.08/0.39	0.57/0.57
Θ(7.5°)	-0.34/-0.64	-1.02/-1.41	-1.86/-2.21	-2.6/-3.17	-3.98/-5.08	-6.31/-7.53	-7.4/-6.77	-5.19/-4	-3.09/-2.33	-1.64/-1.07	-0.68/-0.39	-0.24/-0.21	-0.35/-0.7	-1.31/-2.13	-3.21/-4.51	-6.18/-8.2	-10.83/-13.56	-13.13/-12.96	-9.98/-7.81	-6.01/-4.59	-3.45/-2.48	-1.66/-1.01	-0.52/-0.25	-0.14/-0.19
Θ(15°)	-2.67/-2.8	-2.92/-2.89	-2.73/-2.52	-2.33/-2.41	-2.77/-3.4	-4.15/-5.12	-5.76/-5.86	-4.83/-6.5	-2.74/-2.04	-1.44/-0.96	-0.59/-0.39	-0.32/-0.42	-0.69/-1.17	-1.53/-2.91	-4.22/-5.46	-8.31/-11.46	-15.62/-14.92	-15.35/-12.84	-10.11/-7.84	-6.3/-5.99	-4.33/-3.65	-3.05/-2.61	-2.32/-2.22	-2.24/-3.07
Θ(22.5°)	-6/-6.18	-6.13/-5.6	-4.63/-3.6	-2.75/-2.3	-2.23/-2.48	-2.91/-3.5	-4.29/-4.37	-3.92/-2.9	-2.08/-1.46	-0.95/-0.57	-0.29/-0.12	-0.15/-0.31	-0.62/-1.12	-1.83/-2.78	-4.03/-5.59	-7.52/-9.78	-10.25/-10.98	-9.92/-8.54	-7.46/-6.74	-6.32/-6.04	-5.85/-5.69	-5.6/-5.51	-5.49/-5.52	-5.62/-5.77
Θ(30°)	-6.31/-6.45	-6.65/-6.78	-6.27/-6.84	-3.38/-2.4	-1.98/-1.91	-2/-2.17	-2.53/-3.04	-3.19/-2.73	-2.14/-1.63	-1.14/-0.7	-0.32/-0.03	0.10/-1.3	-0/-0.3	-0.82/-1.58	-2.61/-3.4	-5.42/-6.34	-6.9/-7.03	-6.51/-6.14	-6.09/-6.34	-6.9/-7.21	-6.97/-7.1	-6.88/-6.1	-5.68/-5.58	-5.72/-5.96
Θ(37.5°)	-6.19/-6.32	-6.47/-6.67	-6.38/-5.04	-3.45/-2.31	-1.74/-1.47	-1.33/-1.23	-1.28/-1.51	-1.91/-2.22	-2.28/-2.12	-1.81/-1.35	-0.86/-0.44	-0.12/0.02	-0.02/-0.3	-0.84/-1.57	-2.51/-3.74	-4.88/-5.24	-5.18/-5.13	-5.39/-5.82	-6.42/-6.64	-6.37/-6.59	-5.95/-5.37	-4.82/-4.41	-4.32/-4.64	-5.2/-5.74
Θ(45°)	-7.98/-8.04	-8.47/-8.91	-8.16/-6.33	-4.55/-3.28	-2.58/-2.12	-1.68/-1.27	-1.02/-1.07	-1.36/-1.68	-2.04/-2.27	-2.32/-2.08	-1.65/-1.24	-1.												



Radiated Composite Gain Data

Appendix A

Θ(75°)	3.68/3.49	2.86/2.28	1.7/1.01	0.27/0.53	-1.17/1.28	-3.64/3.7	-3.18/2.07	-1.12/-0.39	0.25/0.57	0.65/0.79	0.75/0.65	0.77/0.92	0.97/1.13	1.16/1.21	1.32/1.18	0.77/-0.05	-1.05/-2.43	-3.63/4.44	-4.22/-3.12	-2.08/-1.04	0.08/0.91	1.76/2.58	3.22/3.36	3.63/3.61
Θ(15°)	4.29/3.97	3.39/2.7	1.82/0.68	-0.14/-0.72	-1.46/-2.64	-3.33/-3.07	-2.63/-1.72	-0.88/-0.16	0.31/0.46	0.40/0.36	0.11/-0.29	-0.46/-0.35	-0.3/-0.29	-0.05/0.38	0.81/1.06	0.95/0.46	-0.51/-1.97	-3.41/-4.55	-4.75/-3.72	-2.77/-1.45	0.01/1.27	2.43/3.48	4.21/4.68	4.69/4.4
Θ(22.5°)	3.79/3.77	3.61/2.06	1.97/0.86	0.02/0.77	-1.95/-2.41	-2.84/-3.23	-3.09/-2.62	-2.06/-1.39	-0.71/-0.29	0.09/0.31	0.30/0.5	-0.31/-0.66	-0.89/-0.91	-1.06/-1.06	-1.04/-0.95	-0.61/-0.31	-2.55/-4.47	-6.07/-5.53	-4.08/-1.86	0.32/0.05	3.14/3.81	4.16/4.38	4.24/3.94	
Θ(30°)	0.99/1.65	1.67/0.76	-0.18/-0.63	-0.98/-1.44	-1.53/-1.68	-1.98/-2.56	-2.3/-1.78	-1.16/-0.81	-0.59/-0.29	0.42/1.05	1.18/1	0.58/0.12	-0.05/-0.04	-0.12/-0.29	-0.62/-0.94	-1.15/-1.07	-0.7/-0.42	-0.98/-2.48	-5.49/-6.24	-3.2/-0.27	1.59/2.77	3.01/2.78	1.85/0.74	0.19/0.59
Θ(37.5°)	0.55/0.99	0.79/0.1	-0.41/-0.33	-0.64/-0.66	-0.89/-1.48	-2.54/-2.72	-2.15/-1.38	-0.94/-0.53	0.01/0.67	1.55/2.13	1.91/0.93	-0.21/-1.34	-1.62/-0.47	0.16/0.04	0.66/-0.8	-0.42/0.17	-0.13/-0.97	-3.32/-7.4	-6.76/-3.45	-1.39/-0.1	0.18/0.48	1.51/1.88	1.33/0.55	
Θ(45°)	0.63/0.2	-0.02/0.54	1.53/1.56	0.8/-0.31	-1.56/-2.49	-2.99/-1.97	-0.69/-0.05	0.40/0.46	0.87/0.87	0.81/12	1.41/1.27	0.97/0.39	-0.62/-1.41	-0.37/0.65	0.66/0.05	-0.79/-1.27	-1.22/-1.62	-2.7/-3.39	-3.99/-5.14	-0.32/-0.39	-0.27/0.16	1.05/1.78	1.71/1.55	
Θ(52.5°)	-2.12/-1.8	-1.82/-0.75	-0.2/-0.26	-0.36/-1.09	-2.86/-5.46	-6.64/-3.7	-1.3/-0.09	0.26/0.41	1.23/1.69	1.42/1.01	0.27/-0.26	-0.07/-0.18	-0.62/-0.54	0.36/0.67	-0.18/-0.09	0.34/0.77	0.96/0.97	0.21/-2.07	-4.21/-4.01	-2.58/-1.21	-0.43/-0.79	-0.66/0.2	0.28/-0.31	-0.95/-2.1
Θ(60°)	3.12/3.18	2.95/2.46	2.2/1.85	1.54/-0.06	-1.06/-3.41	-0.68/-4.2	-1.04/0.55	1.13/0.77	0.29/0.16	0.05/0.36	0.35/0.57	1.07/0.46	0.14/0.59	0.39/0.2	-0.01/0.31	0.08/0.59	1.13/1.12	0.37/-1.15	-2.72/-2.15	-1.08/-1.05	-0.91/-0.95	-1/-0.39	-0.30/7.9	
Θ(67.5°)	1.06/1.57	2.41/2.64	2.67/2.02	1.76/0.56	-1.35/-2.42	-2.49/-2.3	-0.42/0.49	1.38/1.35	-0.17/-0.93	-1.6/-1.24	-1.77/-1.79	-1.58/-1.97	-2.45/-1.53	-1.55/-1.28	-0.97/-0.67	0.46/1.67	1.74/1.62	1.34/-0.2	-1.14/-1.26	-0.32/-0.35	-1.71/-1.89	-1.53/-0.45	0.06/0.55	1.13/1.21
Θ(75°)	1.01/0.77	0.76/0.85	1.81/2.43	1.6/0.08	-0.26/-0.08	-0.7/-2.86	-4.63/-1.34	1.53/2.47	1.48/-0.01	-0.92/-0.77	-0.81/-0.81	-0.32/0.36	0.85/0.78	-0.09/-0.58	-0.3/-0.14	-0.65/-0.23	1.09/1.62	1.13/-0.54	-1.82/-2.12	0.12/0.35	-0.7/0.3	1.49/1.05	0.23/0.36	1.02/1.26
Θ(82.5°)	-1.67/-1.67	-3.06/-2.62	-1.14/0.28	0.61/0.47	-0.38/-1.51	-1.29/-0.76	-1.91/-1.26	1.32/1.81	1.02/0.11	-0.19/0.28	0.57/1.76	1.98/2.16	1.79/0.88	0.64/0.88	1.06/0.28	0.34/0.05	1.24/0.27	-0.04/-1.55	-0.66/-0.06	1.69/0.97	-0.23/-1.43	1.94/0.13	-1.46/-1.02	-0.24/-0.64
Θ(90°)	-0.27/-1.71	-3.96/-4.02	-2.12/-1.44	-0.88/-0.28	-1.25/-2.79	-3.13/-3.21	-3.92/-2.27	0.22/1.66	1.79/1.95	1.69/1.34	0.79/1.72	2.2/2.51	2.43/0.97	0.11/0.49	-0.3/-0.19	-1.33/-0.89	-0.89/-0.42	0.19/-1.63	-2.62/-1.26	2.67/1.29	-1.06/1.81	-1.97/-0.87	-3.38/-1.91	-0.25/0.69
Θ(97.5°)	4.09/3.38	2.19/0.38	-3.93/-0.68	0.61/-0.35	-1.22/-1.29	-2.49/-3	-2.32/-1.02	0.87/1.8	2.35/2.86	2.75/2.49	1.88/1.71	1.14/1.64	2.47/2.08	1.27/-0.21	-1.39/-3.11	-1.82/-0.84	-1.18/-0.88	0.76/-0.47	-0.62/-0.62	1.18/0.2	-0.43/0.56	-0.22/-2.58	-1.35/0.03	2.13/67
Θ(105°)	3.13/1.4	1.5/1.15	-1.72/-1.8	-0.07/0.13	-1.25/-2.52	-1.68/-2.22	-2.13/-1.43	-0.89/-0.09	1.39/2.63	3.31/0.1	1.98/1.68	1.95/2.24	2.48/-1.97	0.94/0.9	0.04/-2.75	-3.56/-2.58	-3.19/-1.3	-0.01/0.61	-1.22/-2.75	-1.96/-1.31	0.66/1.67	-0.03/-2.28	0.15/1.26	1.61/0.31
Θ(112.5°)	1.93/0.1	-0.46/-1.02	-1.92/-0.82	-0.07/0.87	0.92/-0.65	-2.1/-2.12	-1.88/-1.48	-1.11/-1.53	0.23/2.48	3.87/2.96	1.65/1.57	1.48/1.97	3.37/3	1.84/2.48	1.76/-0.95	-3.89/-2.29	-1.48/-0.1	0.46/1.32	-1.75/-3.76	-3.60/0.8	0.36/-0.97	-0.67/-0.11	1.11/0.82	0.75/1.59
Θ(120°)	3.46/2.24	0.29/0.22	-0.11/0.79	0.89/0.96	1.26/0.62	-0.98/-2.31	-2.52/-1.5	-0.41/-0.71	0.85/2.99	3.51/3.35	2.42/0.06	0.48/1.21	3.55/3.63	2.68/2.71	2.17/0.17	-2.54/-0.21	0.34/0.04	-0.79/-0.73	-3.78/-3.73	-2.66/-2.06	-0.28/-3.3	-2.6/-2.02	-1.48/1.04	1.6/2.35
Θ(127.5°)	4.7/4.4	3.55/2.91	1.91/0.4	-0.11/0.02	0.03/0.68	-1.43/-1.77	-2.18/-3.03	-1.51/0.39	1.92/3.44	3.86/3.37	2.08/1.95	0.87/0.35	1.7/0.65	1.86/3.84	2.26/-1.82	0.34/1.11	2.03/0.53	-1.54/-2.42	-6.44/-4.1	-2.84/0.17	1.71/-86	-4.5/-2.81	-0.18/1.45	4.21/4.75
Θ(135°)	1.54/1.75	2/0.96	-0.67/0.46	1.26/1.4	1.4/1.7	1.75/1.05	0.78/0.8	1.05/0.57	1.34/1.35	1.84/1.62	0.38/-1.14	-3.66/-1.08	-0.59/-0.08	0.43/-1.29	-3.97/-1.63	-0.24/0.82	1.77/1.24	1.54/-0.32	-3.03/-3.36	-2.77/-0.69	-0.13/-2.39	-4.62/-5.43	-3.82/-1.93	-0.64/1.09
Θ(142.5°)	1.46/0.57	-0.04/0.07	-0.08/-0.48	-0.44/1.07	1.74/1.81	1.54/1.23	1.04/0.48	-0.35/-0.02	1.28/1.8	1.43/0.72	0.24/-0.19	0.41/95	2.1/1.26	-0.12/-0.43	0.44/-1.07	-1.52/-1.85	-2.87/-1.72	-0.03/-0.68	-2.23/-3.96	-3.25/-1.79	-1.83/-1.21	-1.64/-2.06	-3.57/-1.45	0.71/48
Θ(150°)	1.34/0.89	-0.08/-1.21	-1.79/-2.1	-1.71/-1.07	0.06/0.84	1.08/0.93	0.51/0.15	0.06/-0.12	-0.22/0.22	0.57/1.1	1.7/2.4	3.46/4.34	4.53/3.87	2.78/1.52	0.84/0.21	-1.5/-4.57	-4.55/-2.99	-3.38/-5.11	-6.21/-7.21	-6.78/-3.83	-1.4/-0.29	-0.65/-1.26	-1.05/-0.63	0.19/1.07
Θ(157.5°)	2.54/2.77	2.54/2.05	0.74/-1.21	-2.96/-3.48	-3.09/-2.4	-1.64/-1.48	-1.66/-1.79	-1.81/-2	-2.6/-2.73	-1.98/-0.56	0.71/1.47	1.65/1.05	-0.11/-0.79	-0.92/-1	-1.82/-3.19	-4.85/-5.52	-4.8/-3.68	-4.01/-5	-5.88/-6.59	-6.28/-5.46	-4.56/-3.57	-2.8/-2.35	-1.47/-0.49	0.91/92
Θ(165°)	5.21/4.99	4.11/2.38	-0.46/-3.64	-4.46/-6.9	-6.49/-5.7	-5.24/-5.04	-5.08/-4.85	-4.59/-3.97	-3.27/-2.56	-1.4/-0.41	0.24/0.54	0.5/0.31	0.46/0.58	0.57/0.12	-0.41/-0.99	-1.74/-1.9	-2.33/-3.16	-5.44/-8.01	-9.64/-8.82	-7.19/-6.4	-5.19/-3.84	-1.74/-0	1.34/2.77	3.94/79
Θ(172.5°)	-1.91/-2.28	-2.92/-3.66	-4.21/-4.25	-4.21/-4.34	-4.98/-5.56	-5.99/-6.64	-7.27/-1.27	-6.85/-6.3	-5.14/-4.5	-4.07/-3.96	-4.26/-4.51	-4.46/-3.63	-2.91/-2.61	-2.41/-2.6	-3.11/-3.65	-4.67/-6.32	-7.99/-9.42	-8.77/-7.26	-6.56/-6.03	-6.11/-5.85	-5.61/-5.08	-3.9/-3.42	-3.01/-2.62	-2.27/-1.98
Θ(180°)	-4.72/-4.56	-4.6/-4.54	-4.53/-4.48	-4.68/-5.37	-6.15/-6.9	-6.79/-6.56	-6.09/-5.77	-5.69/-5.49	-5.39/-5.23	-5.19/-5.15	-5/-5.04	-5.27/-5.64	-6.42/-7.67	9.31/-9.46	-9.73/-8.53	-7.93/-7.12	-6.29/-5.72	-5.34/-5.14	-5.16/-5.77	-6.24/-6.58	-6.67/-6.64	-6.76/-7.05	-7.31/-7.14	-6.65/-5.95
Freq(Hz)	5.3GPol.	ThetaL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-5.11/-4.57	-3.63/-2.51	-1.48/-0.54	0.39/0.81	1.22/1.47	1.78/2.04	2.35/2.47	2.49/2.35	2.21/1.95	1.35/0.72	-0.18/-1.34	-2.58/-3.75	-4.72/-4.61	-3.52/-2.38	-1.24/-0.24	0.49/0.98	1.26/1.47	1.64/1.66	1.77/1.92	1.93/1.73	1.55/1.29	0.94/0.36	-0.53/-1.87	-3.34/-4.02
Θ(7.5°)	-5.21/-3.11	-1.6/-0.89	0.04/1.03	1.63/1.85	1.87/1.67	1.56/1.48	1.52/1.48	1.41/1.45	1.42/1.13	0.74/0.46	0.04/-0.58	-1.34/-1.92	-3.17/-4.04	-4.24/-4.35	-2.53/-1.88	-1.09/-0.07	0.81/42	1.89/2.35	2.72/2.96	2.91/2.78	2.58/2.12	1.56/0.82	-0.41/-2.14	-4.68/-5.49
Θ(15°)	-4.23/-2.81	-1.04/-0.22	0.79/1.61	2.2/2.34	2.1/1.92	1.84/1.4	1.07/1.01	0.99/1.13	1.13/0.86	0.56/0.42	0.13/-0.22	-0.66/-1.02	-2.61/-2.43	-1.16/-0.66	-0.61/-0.25	0.45/0.98	1.49/1.89	2.11/2.17	2.24/2.39	2.15/1.66	1.31/0.7	-0.27/-1.49	-3.05/-4.43	
Θ(22.5°)	-3.89/-3.05	-1.7/-0.14	0.92/1.66	2.19/2.21	2.08/2.13	1.96/1.38	1/1.13	1.22/1.35	1.28/1.03	0.82/0.5	-0.02/-0.77	-1.55/-2.05	-2.56/-3.25	-3.18/-2.28	-1.33/-0.89	-0.69/-0.6	-0.23/0.18	0.46/0.93	0.96/0.85	0.79/1.04	1.74/2.28	2.17/1.65	0.53/-0.37	-1.43/-2.87
Θ(30°)	-6.21/-5.63	-3.66/-1.45	-0.27/0.44	1.07/1.4	1.68/1.97	1.68/0.9	0.41/0.71	1.05/1.36	1.41/1.31	1.31/2.6	0.88/0.2	-0.51/-1.19	-1.87/-2.14	-2.23/-2.44	-2.01/-1.65	-1.31/-0.92	-0.88/-0.55	-0.52/-1.27	-1.58/-0.05	0.74/0.41	0.48/1.33	1.29/0.34	-1.05/-1.55	-2.5/-4.3
Θ(37.5°)	-3.8/-4.06	-3.7/-2.94	-2.02/-1.55	-0.92/-0.31	0.03/0.72	1.08/1.32	1.49/1.37	1.34/1.8	2.12/2.23	2.4/2.34	1.81/0.52	-0.9/-1.69	-1.34/-0.85	-0.85/-1.52	-1.94/-1.72	-0.94/-0.97	-1.67/-0.56	-0.16/-1.89	-2.8/-1.43	-0.69/-0.85	-2.34/-3.11	-2.38/-2.57	-3.92/-5.04	-5.88/-4.76
Θ(45°)	-4.64/-2.87	-2.1/-2.02	-1.78/-1.28	-1.15/-1.2	-0.18/1.28	2.06/2.11	1.66/1.2	1.31/98	2.46/2.09	1.42/0.98	0.85/0.12	-0.58/-1	-0.94/-1.28	-1.92/-2.58	-3.42/-3.56	-2.28/-1.31	-2.13/-2.08	-1.25/-0.87	-1.31/-1.99	-3.23/-1.98	-1.14/-2.74	-4.42/-4.85	-5.02/-5.06	-5.5/-5.64
Θ(52.5°)	-3.84/-1.88	-0.75/-0.56	0.01/0.63	0.54/0.19	0.56/1.46	2.17/2.44	2.57/2.45	2.05/2.04	2.46/2.77	2.07/1.03	0.01/-1.76	-2.91/-2.79	-2.33/-1.92	-1.19/-1.67	-2.62/-1.83	-0.64/-0.71	-2.36/-2.31	-1.69/-1.72	-2.11/-3.96	-4.95/-4.45	-3.68/-3.29	-3.78/-3.42	-2.97/-4.24	
Θ(60°)	-2.69/-1.56	-0.32/0.54	1.17/1.43	0.65/0.4	1.07/1	1.64/2.48	2.69/2.55	2.09/1.66	1.74/2	0.73/-0.15	0.35/0.3	-1.08/-0.85	-0.34/-1.91	-3.32/-2.38	-2.52/-2.75	-3.3/-2.08	-2.3/-2.8	-2.43/-1.4	-0.95/-1.05	-0.69/-0.42	-0.96/-2.49	-3.02/-3.33	-4.49/-4.01	-4.01/-3.77
Θ(67.5°)	-2.84/-1.81	-0.95/-0.24	0.32/0.59	0.57/0.31	0.46/0.79	1.94/2.17	1.61/32	0.63/0.1	0.54/1.12	0.57/-1.52	-1.09/-1.54	-3.64/-1.27	-1.06/-4.46	-4.22/-2.77	-2.54/-1.92	-0.52/-0.02	-1.06/-1.12	-0.79/-1.11	-2.92/-3.29	-2.53/-2.79	-3.05/-4.			



Radiated Composite Gain Data

Appendix A

Θ(52.5°)	1.250/1.14	0.761/1.12	1.080/1.01	-0.18/-1.1	-1.54/-1.93	-2.47/-2.62	-2.98/-1.93	-0.04/1.36	1.630/1.88	-0.040/2.1	0.880/1.15	1.16/-0.09	-0.210/9	0.41/-1.07	-0.7/-0.1	-0.48/-0.78	-0.78/-1	-1.15/-0.75	-0.82/-2.2	-2.81/-0.88	0.03/-0.08	0.83/1.35	2.12/2.81	3.07/2.61
Θ(60°)	1.47/1.49	0.720/0.79	0.94/1.19	0.850/4	-0.56/-2.08	-3.53/-4.14	-3.89/-2.93	-1.25/-0.03	0.30/0.95	1.52/2.09	2.17/2.2	2.39/1.84	1.85/1.92	1.06/0.23	0.750/0.06	0.27/1.09	0.510/0.98	2.28/1.72	0.28/-1.41	-1.87/-1.06	-1.4/-1.47	0.24/1.04	0.78/1.41	1.66/1.51
Θ(67.5°)	2.12/1.75	1.62/1.61	1.01/2.02	2.67/2.25	0.75/-1.47	-5.17/-7.19	-4.29/-2.18	-1.76/-0.76	-0.28/-0.4	-0.45/-0.62	-0.060/52	1.42/2.07	2.45/2.48	1.05/-0.5	-0.070/2.2	0.45/1.55	1.1/1.25	1.02/1.34	0.27/-1.41	-1.39/-1.18	-1.41/-1.61	-2.02/-1.36	-1.260/26	1.57/2.09
Θ(75°)	-1.05/-0.95	1.08/1.83	2.79/3.49	3.31/2.61	0.3/-1.97	-3.91/-6.51	-2.89/-1.94	-0.87/-0.74	-0.17/-0.34	-0.61/-0.78	0.030/0.95	1.85/1.12	1.26/1.76	0.35/-0.71	-1.45/-2.31	-0.19/1.36	0.96/1.41	1.87/2.35	1.74/1.5	0.140/0.76	-1.1/-3.1	-2.28/-2.55	-2.15/-1.57	-0.88/-0.52
Θ(82.5°)	-1.8/-1.39	-1.24/-0.59	1.55/2.72	3.08/1.64	-0.7/-1.67	-2.96/-3.88	-2.78/-2.13	-2.63/-3.23	-1.9/-0.03	0.43/1.47	1.96/2.12	1.95/1.63	2.13/1.53	1.030/0.86	-0.83/-3.24	-3.69/-0.85	1.44/1.94	-0.010/52	0.18/-0.76	0.550/0.86	-1.04/-1.47	-0.82/-0.98	-0.9/-0.95	-0.86/-1.57
Θ(90°)	1.23/1.21	0.41/-0.9	-0.24/-0.42	-0.17/-0.89	-1.94/-2.97	-3.6/-2.05	-2.16/-4.25	-2.31/-1.55	-2.340/0.02	0.5/1.46	1.38/1.21	0.580/0.06	0.12/-0.21	0.5/1.22	0.56/-0.9	-8.07/-4.84	-0.110/42	0.64/-0.36	0.380/0.13	1.8/1.76	-0.46/-0.48	0.71/-1.57	-1.45/-0.34	0.01/-0.04
Θ(97.5°)	3.47/2.62	1.06/-1.19	-1.92/-1.21	-1.8/-2.06	-3.4/-3.23	-2.84/-5.26	-5.56/-3.82	-0.77/-0.97	-0.35/1.9	2.380/0.78	0.08/-0.26	-0.5/-0.16	-0.41/-1.11	-0.85/-2.51	-2.26/-1.74	-3.93/-3.45	-0.76/-0.53	-0.49/-0.66	-0.86/-0.58	2.950/5	-3.76/-0.12	-0.08/-0.31	-1.060/34	0.84/3
Θ(105°)	4.05/2.11	2.070/34	-0.49/1.31	1.47/-0.56	-4.37/-4.02	-5.59/-6.07	-5.02/-1.82	0.21/-0.91	-0.97/2.09	0.75/-0.41	-1.25/-0.24	-0.34/-0.72	0.02/-0.73	-3.14/-0.96	-0.6/-2.32	-2.07/-2.28	-0.860/11	2.36/2.25	1.32/-0.27	1.160/59	0.490/82	1.06/1.61	2.96/2.76	2.56/3.96
Θ(112.5°)	2.560/82	0.240/92	1.320/51	0.80/81	-1.71/-6.17	-6.64/-6.8	-5.24/-3.24	-2.12/-1.54	0.05/2.34	2.61/1.64	0.14/-0.29	0.86/1.68	2.310/82	-2.35/-3.46	-1.77/-1.64	-1.56/-1.56	-5.88/-1.01	1.06/3.31	0.83/-0.83	-1.52/1.06	1.27/1.45	0.960/0.9	0.17/2.14	2.24/2.42
Θ(120°)	3.33/75	4.674/23	3.262/49	0.56/-2.17	-2.92/-2.91	-2.38/-3.51	-4.7/-3.99	-2.4/-1.52	0.64/1.53	2.6/1.51	0.250/44	1.73/1.38	2.47/1.39	-2.060/0.5	-0.06/-4.26	-1.78/3.05	2.510/4	0.97/-0.19	-2.41/-1.78	-2.09/1.2	1.33/-0.81	0.150/67	-0.03/1.4	0.64/1.9
Θ(127.5°)	4.77/3.96	2.94/2.48	1.570/67	-0.17/-1.38	0.24/-0.43	-1.72/-3.27	-3.21/-2.59	-1.75/-1.38	-0.470/32	-0.53/-1.27	-1.46/-2.66	-1.35/-2.51	0.380/0.98	-2/-0.74	-0.31/-2.04	-1.16/1.51	0.59/2.51	2.790/25	-2.91/-0.53	1.25/2.89	2.74/-0.83	-0.52/-1.22	-2.85/1.86	3.994/26
Θ(135°)	3.54/3.62	3.2/2.05	0.05/-1.09	-1.42/-1.05	-0.16/1.01	-0.08/-0.79	-0.16/-0.5	-0.61/-0.65	-0.080/13	-0.510/0.7	-1.41/-2.33	-3.78/-3.19	-1.58/-2.01	-0.81/1.16	-0.79/-0.72	-0.79/-1.57	-1.42/1.48	3.53/3.49	0.58/-2.58	0.91/2.59	2.71/-0.77	-1.97/-3.62	-2.6/-0.56	1.73/3.12
Θ(142.5°)	1.41/1.63	1.420/32	-0.59/-0.89	-1.74/-0.86	0.57/1.79	1.320/87	1.84/2.69	2.080/84	1.020/36	0.450/0.8	-0.47/-0.02	1.47/3.26	3.46/2.26	0.27/-3.32	-2.92/-1.76	-0.80/38	0.860/18	-1.26/-1.2	-1.58/-2.55	0.62/2.04	1.31/-1.19	-1.67/-1.46	-2.91/-2.1	-0.360/76
Θ(150°)	-4.67/-5.79	-7.91/-10.16	-9.13/-5.39	-1.77/-0.2	0.090/63	0.540/26	0.210/68	0.530/19	-0.25/-0.72	-0.56/-0.13	0.79/1.72	2.3/2.65	2.83/2.3	0.89/-0.93	-2.72/-4.58	-5.25/-5.84	-6.97/-3.67	-1.25/-1.01	-1.89/-2.2	-1.02/-0.23	-0.66/-1.02	-0.99/-0.56	-0.43/-1.37	-2.24/-3.49
Θ(157.5°)	1.160/75	0.77/0.3	1.27/0.8	-0.11/-0.72	-0.65/-0.27	-0.44/-0.87	-0.94/-0.32	0.210/2	-0.08/-0.25	-0.410/55	2/3.18	3.72/3.64	3.41/2.87	2.02/1.46	0.950/2	-0.33/-1.28	-2.09/-1.81	-1.81/-2.77	-4.04/-4.33	-3.87/3.29	-2.77/-2.61	-1.89/-0.66	0.49/1.2	1.43/1.35
Θ(165°)	3.96/4.18	4.17/3.68	2.30/62	-0.94/-2.19	-2.75/-3.01	-3.65/-3.94	-4.2/-4.51	-4.89/-4.93	-5.35/-5.48	-4.68/-3.67	-3.04/-3.01	-3.94/-4.97	-5.13/-3.42	-1.89/-0.85	-0.31/-0.46	-1.34/-2.21	-2.04/-2.22	-2.99/-4.35	-5.83/-7.4	-7.98/-7.43	-6.47/-5.24	-3.59/-1.5	0.63/1.96	2.76/3.49
Θ(172.5°)	-3.24/-2.58	-2.62/-2.71	-3.37/-3.17	-3.05/-2.49	-2.41/-2.8	-3.56/-4.06	-3.84/-3.46	-3.03/-2.46	-2.55/-2.73	-2.98/-3.31	-3.89/-4.56	-5.56/-5.11	-3.72/-1.99	-0.94/-0.44	-0.29/-0.55	-1.21/-2.12	-3.61/-6.2	-9.85/-10.06	-8.48/-6.88	-5.95/-5.46	-4.79/-4.27	-4.37/-4.84	-5.2/-4.92	-4.37/-3.82
Θ(180°)	-1.7/-1.11	-0.78/-0.72	-0.53/-0.61	-1.22/-2.26	-3.39/-4.55	-5.57/-6.34	-6.7/-7.22	-7.75/-8.16	-8.7/-8.67	-8.79/-9.06	-9.22/-8.5	-8.41/-8.32	-9.04/-10.1	-11.15/-11.63	-11.06/-10.36	-10.32/-9.44	-8.72/-8.05	-7.66/-7.58	-7.53/-7.88	-8.06/-8	-7.83/-7.93	-6.85/-5.03	-2.97/-2.11	
Freq(Hz)	5.785G/Pol.	Theta/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-5.26/-4.93	-3.86/-3.03	-1.96/-1.04	-0.160/44	1.07/1.35	1.37/1.38	1.19/1.32	1.41/1.33	0.940/35	-0.23/-0.75	-1.49/-2.37	-3.24/-4.34	-5.09/-5.48	-4.82/-3.98	-2.89/-1.64	-0.630/31	0.71/1.04	1.38/1.69	1.63/1.31	0.630/4	0.10/0.02	-0.28/-0.66	-1.3/-2.09	-2.83/-4.31
Θ(7.5°)	-5.99/-5.79	-4.84/-3.4	-2.21/-1.31	-0.47/-0.01	0.72/1.26	1.58/1.98	1.98/1.96	1.75/1.54	1.27/1.19	0.930/43	-0.26/-1.1	-2.1/-3.1	-3.08/-3.1	-2.53/-1.57	-0.83/-0.16	0.330/54	0.78/1.04	1.27/1.19	0.810/21	-0.54/-1.01	-1.5/-1.89	-2.61/-3.2	-3.9/-3.78	-4.43/-5.45
Θ(15°)	-4.39/-2.7	-1.350/0.7	0.650/81	1.23/1.5	1.96/2.31	2.33/2.49	1.91/38	1.060/81	0.880/72	0.430/0.3	-0.35/-0.96	-1.69/-2.2	-2.74/-2.62	-2.32/-2.37	-2.07/-1.79	-1.39/-0.84	0.070/82	1.070/8	0.1/-1.24	-2.25/-2.52	-2.5/-2.44	-2.63/-3.65	-5.51/-6.16	-6.57/-5.78
Θ(22.5°)	-4.71/-2.4	-0.910/21	1.02/1.33	1.78/2.15	2.45/2.52	2.64/2.28	1.280/48	-0.24/-0.75	-0.6/-0.03	0.09/-0.12	-0.25/-0.04	-0.15/-0.87	-2.09/-2.36	-1.29/-0.57	-0.48/-1.06	-1.77/-2.21	-1.46/-0.61	-0.41/-1.02	-1.51/-1.96	-1.86/-1.68	-2.4/-3.09	-3.34/-3.23	-4.53/-6.54	-8.54/-7.33
Θ(30°)	-2.93/-1.3	-0.68/-0.5	0.2/1.1	1.64/2.25	2.57/2.35	2.07/1.76	1.71/1.37	0.27/-0.68	-0.070/53	0.880/62	0.05/-0.42	-1.2/-2.47	-3.62/-3.53	-2.03/-0.19	1.03/1.4	1/-0.38	-1.83/-2.19	-3.09/-3.05	-2.53/-2.4	-2.37/-1.12	-0.17/-0.55	-0.4/-0.27	-1.42/-2.82	-3.65/-3.99
Θ(37.5°)	-3.16/-1.27	-0.21/-0.8	-0.650/17	0.98/2.11	2.77/2.63	2.22/1.53	0.910/29	-0.080/26	1.3/1.73	1.320/42	0.440/55	-0.8/-2.16	-2.32/-3.22	-4.34/-2.17	0.080/73	0.11/-0.7	-1.45/-2.76	-3.11/-2.21	-3.16/-5.13	-5.65/-2.36	-0.61/-0.29	-0.13/-0.21	-1.04/-2	-2.76/-3.91
Θ(45°)	-4.33/-2.63	-0.4/-0.43	-1.15/-1.15	0.13/1.64	2.57/3.3	3.52/2.84	0.94/-0.77	-0.39/-0.03	0.010/81	1.22/1.44	2.43/2.39	1.160/17	-1.14/-2.97	-3.17/-2.62	-0.90/0.8	0.470/7	0.32/-1.45	-3.07/-3.37	-3.83/-3.49	-3.1/-3.21	-2.13/-0.71	-1.59/-2.91	-3.35/-3.41	-2.94/-3.28
Θ(52.5°)	-1.53/-1.31	-0.46/-0.22	0.20	0.62/1.35	2.31/2.74	1.740/3	-1.02/-0.86	-0.010/17	-0.140/37	0.890/44	1.41/1.16	-0.8/-1.57	-2.08/-2.52	-2.01/-1.4	-0.570/27	-0.31/-0.22	-0.11/-2.86	-2.91/-3.76	-3.3/-3.77	-3.74/-2.09	-2.72/-3.81	-3.63/-3.36	-3.02/-2.92	-2.78/-2.19
Θ(60°)	-4.1/-3.72	-2.41/-1.25	0.270/91	0.95/1.44	2.41/2.56	1.35/-0.78	-2.43/-1.62	-1.22/-1.92	-2.97/-1.71	0.880/82	0.490/25	-1.76/-3.77	-2.03/-2.23	-3.74/-1.71	-0.46/-2.3	-3.71/-1.69	-1.42/-0.76	-1.89/-2.77	-2.96/-3.04	-2.52/-1.81	-1.77/-3.01	-1.79/-2.33	-2.97/-1.68	-2.23/-3.5
Θ(67.5°)	-3.6/-2.7	-2.67/-1.61	0.61/1.7	1.67/1.33	0.650/25	-0.21/-0.44	-0.32/-0.33	-0.77/-1.57	-0.86/-0.54	0.180/96	0.420/56	-1.28/-2.29	-0.28/-0.55	-2.94/-2.18	-1.52/-4.77	-3.5/-1.21	-0.91/-1.76	-1.55/-1.13	-0.79/-1.95	-1.91/-1.26	0.56/-0.46	-0.58/-0.98	-3.1/-2.23	-1.82/-2.31
Θ(75°)	-4.1/-3.86	-2.28/-0.97	-0.060/89	0.43/-0.06	-0.12/-0.96	-1.130/27	0.61/1	10/12	-0.67/-0.79	-1/-0.89	0.070/58	-0.79/-0.71	-0.2/-1.34	-2.82/-1.56	-0.73/-2.5	-1.360/0.1	-0.28/-1.59	-0.83/-0.13	-0.36/-0.66	-1.26/-0.11	1.040/06	-1.91/-4.32	-4.71/-3.85	-5.37/-5.12
Θ(82.5°)	-3.76/-2.88	-1.060/16	-0.65/-0.35	-1.22/-1.08	-1.52/-2.15	-1.82/-0.86	-0.34/-0.23	-0.11/-0.13	-0.280/0.5	1.7/1.71	1.8/2.02	0.380/32	-0.61/-2.09	0.040/11	-0.51/-1.11	0.11/-0.3	-1.04/-0.38	1.09/-0.45	-1.060/73	1.99/1.66	1.360/72	0.59/-0.45	-2.13/-3.5	-4.53/-7.36
Θ(90°)	-3.73/-3.11	-1.14/-0.71	-1.64/-0.37	-2.33/-2.62	-2.78/-3.04	-2.73/-1.59	-1.8/-0.47	0.450/47	-1.15/-1.47	0.31/1.84	1.79/2.15	0.430	-2.43/-2.77	-1.23/-0.15	-1.250/37	-0.13/-0.57	-1.19/-1.13	-0.67/-1.48	-0.42/-1.41	0.31/1.57	0.190/44	-0.27/-0.32	-2.89/-2.86	-1.5/-4.82
Θ(97.5°)	-2.56/-2.89	-0.380/21	-0.030/5	-0.96/-2.08	-3.04/-1.1	-0.52/-0.95	-1.2/-0.59	1.48/2.53	1.25/-0.44	-1.03/-0.31	0.310/75	-0.9/-2.18	-3.56/-2.5	-2.65/-5.17	-2.31/-1.52	-1.06/-1.32	-1.12/-1.79	-0.990/38	0.08/-0.51	0.17/1.14	0.080/49	-0.89/-1.15	-2.55/-3.98	-1.09/-2.07
Θ(105°)	-1.03/-0.33	-0.310/24	-0.51/-0.37	-0.24/-0.84	0.61/1.14	1.660/76	-1.31/-1.62	0.66/2.94	3.34/1.93	-0.92/-1.01	-1.56/-1.08	-2.17/-0.71	-3.53/-1.88	-1.17/-1.93	-1.43/-0.47	-2.02/-1.94	-0.44/-0.39	-0.35/-0.01	-0.360/46	0.39/1.39	2.520/89	-1.57/-5.06	-3.98/-4.99	-3.06/-1.07
Θ(112.5°)	-1.64/-1.9	-1.410/37	0.8/1.72	1.150/43	0.76/1.38	1.58/-0.58	-1.16/-0.08	2.159/3	3.21/81	0.28/-0.27	0.420/95	-0.56/-1.28	-2.85/-2.64	-1.72/-1.74	-2.13/-1.32	-2.12/-0.87	-1.74/-1.22	0.47/2.06	0.440/98	0.730/44	1.350/32	-1		

Gain Result

Freq(Hz)	2.45GPol.	Phi/Ant.1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-5.56/-5.23	-4.92/-4.66	-4.43/-4.2	-4.05/-3.98	-4.07/-4.18	-4.13/-3.99	-3.93/-4.09	-4.35/-4.64	-5.14/-5.88	-6.75/-7.55	-8.09/-8.48	-8.78/-7.5	-8.69/-8.65	-8.4/-8.15	-7.82/-7.55	-7.16/-6.74	-6.27/-5.92	-5.67/-5.49	-5.38/-5.23	-5.14/-5.1	-5.2/-5.44	-5.96/-6.57	-7.01/-6.97	-6.49/-5.97
Θ(7.5°)	-5.44/-5.23	-5.02/-4.92	-4.88/-4.87	-4.82/-4.77	-4.8/-4.76	-4.56/-4.28	-4.18/-4.33	-4.6/-4.93	-5.48/-6.28	-7.25/-8.18	-9.05/-9.9	-10.52/-10.86	-10.76/-10.46	-9.85/-9.29	-8.63/-7.87	-7.01/-6.28	-5.62/-5.15	-4.81/-4.64	-4.54/-4.43	-4.54/-4.83	-5.25/-5.84	-6.57/-7.24	-7.49/-7.06	-6.34/-5.73
Θ(15°)	-6.63/-6	-5.47/-5.16	-5.14/-5.36	-5.58/-5.7	-5.66/-5.55	-5.31/-5.1	-5.15/-5.45	-5.89/-6.29	-6.84/-7.63	-8.88/-9.91	-11.19/-12.66	-13.81/-14.21	-13.82/-12.97	-11.88/-10.68	-9.28/-9.77	-6.77/-5.87	-5.14/-4.64	-4.31/-4.08	-4/-0.48	-4.49/-5.18	-6.07/-7.16	-8.41/-9.64	-10.21/-9.52	-8.27/-7.28
Θ(22.5°)	-6.93/-5.65	-6.17/-4.08	-3.82/-4.01	-4.47/-4.94	-5.13/-5.08	-4.97/-5.09	-5.56/-6.39	-7.35/-8.22	-9.05/-10.03	-11.45/-13.35	-15.92/-19.38	-18.38/-18.45	-15.81/-15.42	-12.89/-10.62	-8.73/-7.28	-6.16/-5.3	-4.67/-4.22	-3.94/-3.84	-3.97/-4.33	-4.95/-5.73	-6.67/-5.8	-8.76/-10.07	-11.09/-10.98	-9.69/-8.22
Θ(30°)	-6/-4.5	-3.25/-2.4	-1.95/-1.93	-2.25/-2.69	-2.92/-2.89	-2.92/-3.38	-4.33/-5.73	-7.35/-8.79	-10.31/-11.83	-13.66/-15.75	-18.08/-19.66	-18.37/-19.46	-16.84/-14.33	-11.95/-9.97	-8.34/-7.06	-6.09/-5.4	-4.85/-4.47	-4.33/-4.55	-5.17/-5.15	-7.32/-6.85	-9.41/-10.29	-11.13/-11.76	-11.83/-10.91	-9.28/-7.49
Θ(37.5°)	-7.6/-5.54	-3.9/-2.8	-2.03/-1.71	-1.71/-1.7	-1.47/-1.23	-1.34/-2.06	-3.42/-5.26	-7.23/-9.1	-11.12/-13.23	-14.79/-15.08	-14.12/-12.96	-12.1/-11.41	-10.73/-10.11	-9.49/-8.96	-8.43/-8.03	-7.67/-7.28	-6.93/-6.62	-6.75/-7.65	-9.54/-12.23	-10.52/-16.82	-18.18/-19.22	-18.34/-17.48	-17.13/-18.34	-13.13/-9.94
Θ(45°)	-9.94/-8.41	-7.14/-5.93	-4.9/-4.22	-3.68/-2.89	-1.97/-1.38	-1.51/-2.53	-4.3/-6.76	-9.67/-12.63	-15.81/-16.5	-18.78/-16.38	-12.81/-10.95	-9.59/-8.83	-8.23/-8.74	-7.82/-8.16	-9.16/-10.82	-12.71/-13.2	-11.21/-8.97	-7.62/-7.19	-6.81/-6.81	-14.76/-4.1	-3.94/-4.28	-5.2/-6.78	-9.23/-12.42	-13.71/-11.82
Θ(52.5°)	-4.59/-4.42	-4.75/-5.18	-5.38/-4.44	-5.28/-4.32	-2.86/-1.83	-1.74/-2.53	-4.05/-6.17	-8.76/-11.59	-14.56/-17.83	-18.5/-18.24	-14.63/-11.54	-9.38/-8.4	-8/-7.76	-7.98/-9.23	-12.24/-18.12	-18.63/-11.8	-7.28/-4.6	-3.16/-2.47	-1.89/-1.24	-0.75/-9.09	-0.81/-1.35	-2.23/-3.2	-4.72/-5.9	-5.98/-5.23
Θ(60°)	-3.91/-3.31	-3.4/-3.92	-4.61/-5.24	-5.55/-4.73	-3.12/-2.72	-1.07/-1.15	-1.75/-2.62	-3.86/-5.52	-8/-11.4	-16.48/-18.91	-17.77/-13.55	-11.24/-10.08	-9.48/-9.27	-9.55/-10.66	-12.54/-14.17	-13.22/-10.04	-6.52/-4.13	-2.92/-2.52	-2.39/-2.4	-7.77/-3.51	-4.61/-5.87	-6.8/-7.33	-7.78/-7.79	-6.61/-5.03
Θ(67.5°)	-10.71/-7.7	-6.4/-6.54	-4.87/-10.28	-13.68/-13.18	-8.59/-5.27	-3.51/-2.83	-4.43/-6.08	-9.06/-14.28	-17.22/-17.91	-18.18/-17	-13.28/-10.78	-9.45/-8.47	-7.57/-6.98	-7.1/-8.39	-11.81/-17.85	-12.96/-8.33	-6.15/-5.08	-4.85/-5.53	-7.02/-9.06	-11	-13.13/-33	-14.94/-17.14	-17.92/-18.4	-19.39/-14.93
Θ(75°)	-9.34/-6.13	-4.22/-3.69	-4.15/-5.2	-6.92/-10.18	-14.94/-12.27	-7.99/-6.12	-5.86/-6.59	-7.94/-9.86	-13.05/-16.89	-15.6/-14.06	-16.64/-18.16	-18.18/-12.36	-9.97/-9.8	-6.11/-9.4	-4.95/-6.63	-11.17/-18.75	-10.28/-5.44	-3.09/-2.35	-3.03/-4.97	-7.33/-6.06	-7.35/-7.15	-8.71/-12.61	-15.45/-13.03	-11.98/-11.67
Θ(82.5°)	-6.85/-5.28	-4.16/-3.9	-4.44/-5.3	-6.48/-9.14	-13.18/-14.7	-6.45/-4.65	-4.49/-5.6	-7.87/-11.27	-16.85/-18.99	-19.17/-52	-18.96/-19.1	-13.2/-9.87	-7.61/-5.2	-3.32/-2.51	-3.13/-5.57	-11.78/-18.1	-9.45/-5.05	-3.5/-4.07	-7.38/-17.08	-13.77/-7.56	-5.52/-5.34	-6.95/-10.61	-12.79/-9.95	-8.11/-7.5
Θ(90°)	-9.3/-8.67	-7.53/-7.07	-7.6/-8.58	-9.45/-10.72	-10.81/-7.82	-5.28/-4.08	-3.97/-4.81	-6.59/-9.45	-13.63/-18.11	-17.75/-18.31	-14.81/-12.32	-8.94/-6.86	-4.92/-2.89	-3.13/-3.78	-1.48/-3.67	-8.48/-17.15	-1.96/-9.96	-8.75/-10.93	-12.39/-6.18	-2.29/-0.71	-0.63/-1.55	-3.43/-6.56	-10.46/-11.12	-9.6/-9.05
Θ(97.5°)	-5.4/-5.41	-5.23/-5.36	-6.15/-7.17	-8.09/-10.4	-17.57/-18.84	-12.4/-9.56	-8.79/-8.99	-10.02/-11.58	-13.48/-14.94	-15.22/-14.02	-11.55/-9.31	-7.89/-6.53	-4.83/-3.37	-2.71/-3.21	-5.19/-4.93	-18.4/-18.16	-11.21/-9	-8.98/-9.97	-7.82/-6.14	-2.04/-1.67	-2.77/-5.38	-9.71/-16.86	-15.37/-9.41	-6.56/-5.57
Θ(105°)	-6.24/-6.65	-7.15/-7.99	-9.44/-10	-8.86/-7.6	-9.86/-5.21	-3.75/-2.95	-2.71/-2.84	-1.33/-3.46	-3.72/-3.87	-3.96/-4.21	-4.58/-5.27	-5.99/-6.04	-5.49/-5.34	-6.32/-6.92	-14.87/-17.66	-12.57/-10.97	-7.34/-6.61	-6.36/-5.94	-4.67/-4.31	-2.91/-3.68	-5.84/-10.62	-17.64/-14.09	-10.57/-6.44	-6.83/-6.07
Θ(112.5°)	-6.06/-6.43	-7.22/-8.55	-10.26/-10.3	-8.35/-5.55	-5.16/-3.74	-2.51/-1.71	-1.37/-1.41	-1.62/-1.83	-1.85/-1.71	-1.66/-2.07	-3.25/-5.13	-6.9/-5.2	-8.06/-6.1	-5.19/-5.89	-14.55/-9.74	-7.49/-6.27	-5.83/-6.14	-6.92/-3.77	-7.17/-7.12	-9.10/-6.08	-15.41/-17.55	-11.78/-7.64	-6.38/-6.36	-6.35/-6.1
Θ(120°)	-9.88/-9.27	-8.68/-8.06	-7/-5.63	-4.24/-3.04	-2.18/-1.39	-0.75/-0.36	-0.34/-0.68	-1.18/-1.5	-1.47/-1.12	-0.91/-1.31	-2.63/-4.53	-5.82/-6.23	-7.46/-11.14	-16.58/-11.08	-6.59/-4.27	-3.09/-2.65	-2.81/-3.5	-4.58/-5.78	-7.23/-6.68	-14.22/-18.72	-17.83/-16.05	-10.84/-8.02	-7.08/-7.75	-9.59/-10.92
Θ(127.5°)	-19/-18.7	-15.9/-11.66	-8.89/-7.05	-5.58/-4.39	-3.44/-2.73	-2.38/-2.47	-3.05/-4.1	-5.28/-5.95	-5.73/-4.92	-4.27/-4.55	-6.02/-8.23	-11.97/-9.01	-10.62/-12.05	-10.75/-17.7	-4.67/-3.27	-2.67/-2.61	-2.873/-2.9	-3.84/-6.68	-6.2/-8.86	-13.57/-19.03	-18.63/-18.42	-16.31/-11.03	-7.9/-7	-8.19/-11.69
Θ(135°)	-8.75/-13.15	-18.38/-18.2	-15.64/-10.79	-7.73/-5.42	-3.72/-2.5	-1.81/-55	-1.66/-2	-2.57/-3.49	-4.99/-7.29	-10.38/-13.53	-17.78/-11.21	-8.75/-7.28	-6.66/-6.4	-5.96/-5.21	-4.5/-4.12	-4.01/-4.05	-4.16/-3.46	-3.84/-6.64	-8.17/-12.04	-17.61/-17.12	-12.48/-9.52	-7.96/-6.33	-4.73/-9.34	-4.35/-6.13
Θ(142.5°)	-10.26/-13.83	-14.07/-10.64	-7.35/-4.84	-2.98/-1.58	-0.510/38	1.021/44	1.65/1.71	1.571/22	0.571/32	-1.25/-1.89	-1.97/-1.57	-1.11/-0.82	-0.86/-1.19	-1.67/-2.22	-2.79/-3.33	-3.89/-4.31	-4.79/-5.48	-6.7/-8.8	-12.44/-17.59	-18.9/-12	-8.56/-7.22	-6.99/-6.84	-6.27/-5.9	-6.41/-8.12
Θ(150°)	-15.07/-14.18	-10.66/-7.62	-5.3/-3.56	-2.32/-1.39	-0.74/-0.26	0.070/29	0.380/36	0.212/407	-0.48/-0.87	-1.23/-1.42	-1.35/-1.01	-0.58/-0.24	-0.17/-0.46	-1.03/-1.79	-2.75/-2.72	-4.8/-5.89	-7.16/-8.8	-11.01/-14.31	-17.49/-18.95	-14.06/-10.06	-8.32/-8.78	-8.46/-9.5	-10.43/-11.03	-11.95/-13.92
Θ(157.5°)	-19.74/-12.66	-9.7/-9	-6.44/-5.53	-4.94/-4.6	-4.5/-4.59	-4.86/-5.27	-5.75/-5.35	-7.24/-8.24	-1.98/-2.43	-8.55/-8.18	-7.15/-5.93	-4.92/-4.15	-3.78/-3.79	-4.14/-7.5	-5.57/-4.69	-7.53/-7.97	-10.07/-11.02	-11.79/-13.07	-15.49/-17.92	-17.99/-16.58	-15.74/-15.8	-16.77/-18.76	-19.09/-17.77	-17.97/-17.62
Θ(165°)	-12.03/-11.33	-10.74/-10.51	-10.99/-12.08	-13.55/-14.62	-14.27/-12.9	-11.25/-9.99	-9.07/-8.41	-8.06/-8.07	-8.57/-9.31	-10.55/-12.51	-15.66/-17.36	-17.81/-18.8	-15.11/-12.82	-11.13/-9.91	-9.05/-8.43	-8.04/-7.86	-7.66/-7.56	-7.63/-8.17	-9.16/-10.5	-11.86/-13.2	-13.96/-13.75	-12.98/-12.49	-12.28/-12.29	-12.37/-12.44
Θ(172.5°)	-7.39/-8.24	-9.24/-10.63	-12.73/-15	-14.15/-11.22	-8.71/-6.7	-5.14/-3.92	-3.08/-2.49	-2.15/-2.5	-3.05/-3.77	-4.76/-6.02	-7.38/-7.85	-9.72/-10.17	-9.39/-9.25	-8.36/-7.51	-6.83/-6.67	-5.95/-5.76	-5.67/-5.79	-5.98/-6.07	-6.61/-5.97	-5.78/-5.54	-5.3/-5.16	-5.2/-5.49	-6.02/-6.78	-6.02/-6.78
Θ(180°)	-4.66/-5.22	-5.68/-5.55	-5.89/-5.55	-4.79/-3.84	-3.02/-2.64	-1.76/-1.26	-0.91/-0.72	-0.64/-0.69	-0.87/-1.17	-1.54/-1.93	-2.43/-3.06	-3.79/-4.59	-7.46/-8.47	-9.23/-9.47	-9.23/-9.47	-9.21/-8.63	-7.89/-6.96	-6.17/-5.55	-5/-4.45	-3.88/-3.36	-2.92/-2.61	-2.55/-2.92	-3.48/-4.18	-3.48/-4.18
Freq(Hz)	2.45GPol.	Theta/Ant.1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-4.92/-5.65	-6.05/-6.73	-7.48/-8.12	-8.55/-8.84	-8.69/-8.99	-9.19/-9.14	-8.9/-8.59	-8.27/-8.09	-8.07/-7.89	-7.35/-7.17	-6.78/-6.48	-6.19/-5.91	-5.85/-5.88	-6.16/-6.2	-7.13/-7.54	-7.88/-8.32	-8.76/-8.95	-8.83/-8.5	-8.22/-9.97	-7.71/-7.33	-6.89/-6.43	-5.89/-5.38	-4.94/-4.62	-4.47/-4.56
Θ(7.5°)	-6/-6.52	-6.95/-7.26	-7.38/-7.18	-6.75/-6.46	-6.43/-6.58	-6.57/-6.49	-6.38/-6.3	-6.41/-6.6	-6.91/-7.08	-7/-6.8	-6.58/-6.3	-6.03/-5.9	-5.97/-6.29	-6.97/-6.8	-8.64/-9.72	-10.94/-12.3	-13.72/-14.7	-14.88/-14.06	-12.84/-11.54	-10.16/-9.93	-7.93/-7.07	-6.32/-5.72	-5.3/-5.14	-5.24/-5.58
Θ(15°)	-9.6/-10.07	-10.11/-9.64	-8.71/-7.69	-6.61/-5.89	-5.54/-5.35	-5.09/-4.76	-4.44/-4.32	-4.44/-4.75	-5.14/-5.56	-5.96/-6.19	-6.25/-6.28	-6.22/-6.29	-6.52/-6.95	-7.62/-8.47	-9.61/-11.11	-12.97/-12.55	-18.26/-18.14	-17.79/-18.9	-16.67/-13.55	-11.45/-10.09	-9.16/-5.88	-8.16/-7.9	-7.84/-7.95	-8.35/-8.88
Θ(22.5°)	-15.31/-15.9	-15.9/-14.38	-11.72/-9.22	-7.24/-5.91	-5.13/-4.55	-4.01/-3.41	-2.93/-2.71	-2.77/-3.02	-3.46/-4.01	-4.62/-5.16	-5.54/-5.78	-6.03/-6.24	-6.45/-6.66	-6.94/-7.33	-7.8/-8.39	-9.01/-9.53	-10.11/-10.19	-11.72/-12.25	-12.34/-12.16	-12.02/-11.96	-12.23/-12.74	-13.48/-14.06	-14.72/-14.31	-14.46/-14.87
Θ(30°)	-10.31/-10.66	-11.77/-13.44	-13.84/-11.09	-8.2/-6.17	-4.974/0.7	-3.25/-2.45	-1.84/-1.56	-1.5/-1.66	-2.09/-2.68	-3.33/-3.88	-4.33/-4.61	-4.81/-4.8	-4.87/-4.51	-4.4/-4.31	-4.36/-4.46	-4.72/-5.18	-5.85/-6.81	-8.11/-9.59	-11.5/-13.96	-17.44/-19.13	-17.58/-17.99	-16.7/-13.56	-11.65/-10.61	-10.25/-10.25
Θ(37.5°)	-7.49/-7.89	-8.62/-9.69	-10.49/-8.84	-6.49/-4.75	-3.75/-3.01	-2.29/-1.56	-1.07/-0.81	-0.72/-1.01	-1.34/-1.96	-2.63/-3.18	-3.55/-3.71	-3.68/-3.5	-3.25/-3	-2.84/-2.71	-2.65/-2.81	-3.19/-3.8	-4.76/-6.15	-11.3/-10.88	-14.94/-16.26	-16.65/-14.47	-12.99/-10.02	-8.1/-6.93	-6.4/-6.4	-6.78/-7.24
Θ(45°)	-11.21/-12.07	-13.23/-13.69	-11.44/-8.03	-5.93/-3.99	-3.2/-2.64</																			



Radiated Composite Gain Data

Appendix A

Θ(75°)	-6.96/8.22	-9.38/9.88	-10.45/-11.94	-13.73/14.15	-12.47/-11.29	-10.84/-10.15	-9.92/-10.46	-10.88/-11.29	-11.05/-10.86	-11.11/-11.07	-11.64/-11.87	-11.47/-11.06	-10.53/-9.77	-9.59/-9.42	-9.29/-9.43	-9.78/-10.95	-12.26/-14.49	-16.55/-18.07	-16.32/-13.57	-12.17/-10.84	-9.17/9.89	-6.87/-5.97	-5.49/-5.53	-5.07/-5.86
Θ(15°)	-8.81/-10.49	-11.81/-12.53	-14.39/-18.14	-18.74/-15.79	-14.12/-13.65	-13.28/-13.6	-14.56/-14.02	-13.04/-11.68	-10.6/-10.35	-10.5/-10.49	-10.31/-8.6	-9.43/-7.7	-8.11/-7.76	-7.43/-7.34	-7.51/-7.57	-8.1/-9.3	-10.93/-12.99	-15.74/-18.82	-18.62/-14.04	-12/-10.03	-8.44/-7.72	-7.08/-5.93	-5.2/-5.56	-5.74/-7.3
Θ(22.5°)	-15.36/-12.64	-10.95/-10.67	-12.35/-14.74	-15.6/-14.79	-14.64/-13.2	-12/-13.12	-12.34/-11.9	-10.77/-12.56	-11.17/-9.03	-10.71/-9.03	-10.41/-6.2	-6.42/-6.1	-6.92/-7.35	-7.99/-8.73	-9.29/-9.47	-8.9/-8.58	-8.79/-9.64	-11.17/-13.52	-18.56/-18.23	-13.79/-8.73	-6.55/-6.35	-3.74/-7.71	-7.72/-9.41	-11.35/-15.7
Θ(30°)	-10.61/-8.22	-7.8/-8.12	-8.36/-6.65	-8.52/-8.55	-9.33/-9.21	-9.55/-9.76	-9.27/-10.61	-12.06/-12.32	-12.07/-10.88	-9.24/-7.13	-5.47/-4.83	-5.02/-6.11	-7.23/-7.99	-8.18/-8.22	-8.62/-8.73	-7.98/-7.43	-6.69/-5.69	-5.74/-8.23	-15.15/-18.43	-10.45/-5.68	-3.47/-3.32	-5.31/-7.11	-8.19/-10.56	-13.52/-13.78
Θ(37.5°)	-7.53/-7.31	-6.48/-6.76	-6.08/-6.48	-6.77/-5.55	-5.71/-6.13	-8.53/-10.64	-11.95/-12.73	-13.95/-14.04	-11.34/-8.68	-7.22/-6.82	-5.29/-5.32	-6.19/-8.1	-11.11/-14.06	-12.07/-8.51	-6.2/-5.33	-6.08/-4.64	-2.87/-1.3	-1.12/-2.43	-6.01/-13.88	-12.18/-8.66	-7.25/-7.23	-11.12/-18.58	-6.19/-7.44	-6.76/-7.03
Θ(45°)	-8.92/-10.36	-8.97/-8.52	-8.52/-9.89	-10.92/-11.52	-11.31/-7.83	-7.07/-7.54	-9.26/-12.33	-14.95/-15.36	-14.45/-12.57	-10.34/-8.76	-7.65/-7.1	-7.65/-9.95	-13.49/-15.68	-9.96/-6.53	-4.96/-4.22	-4.44/-4.88	-5.2/-6.51	-8.18/-10.22	-13.86/-15.8	-7.52/-5.48	-7.26/-11.15	-14.45/-19.01	-16.99/-9.37	-7.6/-7.82
Θ(52.5°)	-16.83/-16.75	-11.25/-8.22	-7.22/-6.91	-7.31/-8.98	-13.56/-14.78	-12.39/-9.28	-9.14/-12.3	-17.33/-18.58	-15.34/-11.88	-10.76/-10.67	-10.86/-11.62	-14.02/-17.93	-17.88/-18.72	-13.44/-8.15	-5.65/-4.27	-3.41/-2.4	-1.96/-1.91	-3.12/-7.64	-11.88/-8.22	-6.92/-7.26	-8.88/-15.24	-17.98/-12.42	-10.55/-9.88	-9.91/-13.15
Θ(60°)	-9.97/-7.37	-5.97/-4.42	-4/-4.13	-3.76/-3.73	-5.08/-9.19	-16.34/-14.91	-10.79/-9.16	-8.45/-10.4	-12.68/-11.1	-9.91/-10.59	-12.72/-12.49	-12.02/-18.5	-18.72/-17.37	-19.14/-12.64	-9.04/-6.36	-4.24/-3.11	-4.28/-4.3	-8.05/-10.35	-8.71/-5.57	-5.41/-9.62	-15.35/-17.05	-16.86/-14.37	-15.26/-19.22	-18.04/-15.61
Θ(67.5°)	-10.12/-7.59	-5.46/-4.46	-3.5/-3.21	-2.6/-2.36	-2.33/-3.56	-6.31/-8.88	-7.62/-7.78	-7.83/-8.46	-13.82/-18.93	-15.72/-11.1	-11.54/-11.52	-10.53/-12.96	-16.71/-16.38	-19.98/-17.27	-12.85/-8.57	-4.31/-3.39	-3.53/-2.39	-2.07/-3.54	-4.47/-6.12	-6.73/-8.9	-16.88/-18.22	-18.17/-18.58	-15.88/-14.18	-15.58/-12.82
Θ(75°)	-12.17/-10.4	-8.39/-8.12	-5.72/-3.49	-1.83/-1.03	-1.27/-2.7	-5.24/-9.01	-13.3/-10.17	-6.34/-5.74	-7.61/-11.44	-11.97/-9.63	-8.61/-7.67	-6.96/-8.92	-9.09/-10.1	-15.58/-18.7	-14.62/-12	-10.53/-7.41	-3.09/-0.45	-1.23/-2.14	-6.72/-6.69	-5.06/-7.74	-15.33/-16.31	-10.77/-12.01	-16.4/-18.72	-18.71/-14.18
Θ(82.5°)	-19.68/-17.82	-17.5/-13.6	-8.22/-8.81	-5.12/-4.88	-3.4/-2.57	-3.21/-3.14	-3.45/-4.99	-5.1/-5.6	-6.51/-7.57	-8.43/-7.5	-6.88/-6.64	-8.21/-10.47	-12.87/-17.29	-17.32/-18.1	-16.02/-17.89	-9.43/-5.88	-2.11/-1.92	-0.47/-4.56	-2.99/-2.83	-1.38/-3.5	-11.1/-12.7	-10.1/-13.35	-15.2/-15.64	-13.76/-13.98
Θ(90°)	-9.68/-12.48	-17.9/-19	-11.48/-9.14	-8/-5.54	-5.76/-5.22	-4.84/-4.99	-5.85/-5.82	-5.43/-3.99	-3.81/-3.96	-4.41/-5.29	-6.85/-6.57	-8.89/-11.91	-13.62/-14.51	-15.23/-10.72	-10.44/-11.75	-14.82/-8.74	-6.66/-4.88	-3.27/-4.36	-4.42/-1.31	0.96/-3.69	-14.67/-4.94	-3.23/-8.87	-19.16/-18	-13.67/-9.57
Θ(97.5°)	-3.47/-5.36	-6.7/-7.95	-18.91/-10.75	-7.23/-6.69	-5.03/-3.31	-3.46/-4.72	-5.84/-5.44	-3.1/-1.47	-0.1/-0.45	-1.49/-3.1	-4.8/-6.4	-9.97/-13	-11.04/-11.44	-9.3/-8.19	-8.36/-10.38	-10.62/-10.08	-8.91/-7.69	-5.32/-5.25	-2.01/-1.17	0.37/-4.22	-6.98/-3.6	-4.96/-8.89	-11.45/-11.85	-14.56/-6.64
Θ(105°)	-1.56/-3.24	-6.32/-7.42	-11.03/-7.08	-2.98/-2.11	-2.69/-4.38	-3.43/-3.97	-5.74/-6.11	-4.02/-2.5	-1.93/-10.6	-0.88/-1.78	-4/-6.71	-8.34/-8.46	-9.6/-10.6	-10.28/-9.27	-10.95/-13.4	-12.65/-10.88	-9.53/-6.59	-9.34/-10.42	-12.45/-9.38	-9.53/-10.95	-3.72/-0.26	-1.14/-5.71	-10.11/-9.88	-11.02/-5.58
Θ(122.5°)	-3.88/-5.8	-5.65/-5.36	-6.41/-3.16	-0.86/-0.26	-1.12/-1.37	-1.81/-1.95	-3.12/-4.26	-4.89/-3.72	-2.39/-1.27	-0.71/-1.88	-2.55/-3.97	-7.21/-10.53	-16.8/-17.55	-15.33/-15.57	-12.05/-11.22	-18.51/-18.08	-10.71/-9.34	-8.35/-4.53	-7.48/-19	-14.13/-8.29	-4.41/-3.75	-3.22/-4.44	-5.38/-7.8	-7.19/-4.71
Θ(120°)	-4.16/-5.7	-6.25/-3.71	-3.74/-3.03	-3.12/-1.96	-2.29/-2.17	-1.74/-0.98	-0.97/-0.64	-0.56/-1.43	-1.13/-1.01	-2.06/-2.12	-2.83/-7.35	-9.19/-13.38	-18.76/-18.28	-17.93/-14.81	-17.57/-19.16	-15.45/-14.89	-10.47/-8.99	-14.06/-14.14	-12.65/-13.85	-14.2/-10.81	-8.15/-18.13	-10.31/-15.12	-14.49/-9.11	-12.04/-6.75
Θ(127.5°)	-10.78/-10.38	-9.64/-7	-4.27/-1.68	-1.05/-10.8	-1.7/-1.82	-1.55/-0.51	0.29/0	0.49/0.93	-0.22/-1.93	-2.47/-5.38	-3.71/-8.77	-9.32/-14.44	-17.35/-17.64	-14.51/-11.91	-12.7/-19.7	-15.13/-12.82	-5.61/-9.43	-13.27/-8.18	-6.28/-7.27	-7.86/-17.7	-2.28/-6.96	-8.77/-5	-9.38/-14.81	-11.36/-10.52
Θ(135°)	-10.12/-8.74	-5.23/-3.34	-2.29/-1.14	-1.14/-1.91	-1.91/-0.77	0.98/1.89	2.73/2.92	2.42/2.07	1.4/-0.06	-2.31/-5.09	-6.85/-8.5	-15.99/-18.36	-17.13/-13.93	-9.92/-14.92	-19.12/-17.92	-15.91/-12.82	-2.82/-4.85	-2.71/-3.52	-5.68/-6.43	-5.39/-3.63	-3.04/-5.41	-13.19/-10.64	-7.82/-12.79	-13.86/-10.52
Θ(142.5°)	-9.02/-12.63	-14.63/-10.49	-7.78/-4.66	-2.9/-1.67	-0.60/-33	0.83/0.51	0.49/1.26	1.67/1.7	1.92/1.05	-1.31/-3.62	-5.49/-8.33	-9.08/-9.47	-11.43/-14.69	-17.53/-18.45	-12.49/-10.88	-8.08/-8.62	-13.22/-9.34	-3.35/-3.4	-5.54/-7.24	-6.05/-5.9	-9.57/-5.14	-4.76/-7.37	-6.95/-7.63	-9.68/-9.38
Θ(150°)	-8.02/-7.11	-7.47/-8.75	-10.11/-8.49	-5.57/-2.82	-0.38/-1.36	2.13/2.11	1.75/1.71	1.94/1.78	1.04/0.18	-0.74/-2.22	-4.09/-5.66	-7.23/-8.96	-13.29/-18.02	-17.64/-18.7	-13.37/-10.59	-11.23/-17.97	-11.65/-6.7	-5.55/-6.2	-7.34/-8.35	-8.1/-6.63	-5.71/-5.33	-6.83/-9.42	-11.41/-13.51	-12.46/-10
Θ(157.5°)	-16.22/-13.96	-14.3/-15.01	-18.39/-17.14	-13.36/-7.53	-3.64/-1.3	-0.26/-0.11	-0.6/-1.04	-0.99/-1.08	-1.67/-2.47	-3.12/-3.35	-3.66/-4.68	-7.05/-11.71	-18.91/-17.41	-13.76/-9.83	-8.54/-8.85	-9.11/-6.35	-3.71/-2.61	-3.14/-2.9	-5.52/-6.51	-7.26/-8.18	-9.69/-10.39	-10.82/-11.54	-13.03/-18.26	-18.8/-19.08
Θ(165°)	-13.54/-11.4	-10.5/-11.44	-15.16/-18.01	-16.6/-11.3	-8.17/-6.2	-5.26/-4.66	-4.48/-4.24	-3.71/-3.14	-2.5/-2.32	-2.47/-3.02	-4.07/-5.65	-9.16/-15.68	-18.67/-15.97	-10.95/-8.26	-6.27/-4.63	-3.58/-2.98	-3.02/-3.7	-5.55/-9.21	-14.98/-17.82	-17.88/-19.93	-16.36/-14.28	-13.72/-14.5	-17.84/-19.11	-18.59/-15.37
Θ(172.5°)	-14.67/-15.08	-15.05/-15.43	-15.58/-14.99	-14.48/-13.57	-12.3/-10.29	-8.82/-8.2	-8.06/-8.71	-7.68/-7.34	-7.06/-7.49	-8.81/-11.15	-14.91/-17.67	-17.83/-12.64	-9.12/-7.03	-6.08/-5.87	-6.36/-7.59	-10.14/-15	-18.25/-17.48	-11.39/-8.01	-6.18/-5.53	-5.48/-6.54	-5.84/-6.16	-6.81/-8.15	-10.01/-14.94	-13.48/-14.48
Θ(180°)	-18.63/-18.25	-18.08/-17.82	-16.79/-13.78	-11.29/-9.72	-8.62/-7.99	-7.55/-7.44	-7.41/-7.28	-7.41/-5.44	-7.59/-7.43	-7.41/-7.65	-8.07/-8.49	-9.16/-10.41	-11.19/-12.91	-15.97/-17.76	-17.3/-12.88	-9.63/-7.54	-6.26/-5.45	-5.09/-4.79	-4.74/-5.19	-5.54/-5.84	-6.3/-6.79	-8/-10.65	-13.74/-17.21	-18.33/-18.62
Freq(Hz)	5.3GPol.	Theta/Ant. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-16.12/-16.43	-15.16/-14.12	-12.74/-12.2	-10.94/-10.18	-9.72/-8.99	-8.92/-9.21	-8.87/-10.14	-10.57/-11.37	-11.41/-11.48	-12.62/-13.91	-15.81/-16.65	-14.65/-12.22	-10.58/-10.03	-9.77/-10.02	-10.21/-9.94	-9.31/-8.62	-8.21/-8.45	-8.48/-8.53	-8.69/-8.79	-8.59/-8.96	-9.97/-11.61	-13.29/-15.4	-17.34/-16.04	
Θ(7.5°)	-10.47/-9.17	-7.7/-9.51	-7.28/-8.67	-6.64/-6.49	-6.46/-6.68	-6.86/-7.21	-7.95/-8.21	-8.24/-8.12	-7.48/-7.25	-7.25/-7.39	-7.46/-7.45	-7.71/-8.61	-10.78/-14.37	-19.21/-17.16	-17.69/-18.61	-16.53/-13.25	-11.13/-9.83	-9.14/-8.69	-8.5/-8.57	-9.35/-10.27	-11.04/-12.36	-14.76/-17.25	-18.5/-19.04	-17.13/-13
Θ(15°)	-5.59/-4.97	-4.27/-4.61	-5.01/-5.01	-4.94/-4.65	-4.78/-4.89	-4.82/-4.91	-5.31/-5.49	-5.58/-5.17	-4.86/-4.76	-4.68/-4.84	-4.91/-4.83	-5.16/-6.08	-7.6/-9.1	-10.88/-12.02	-11.75/-14.23	-15.17/-19.08	-19.12/-17.98	-14.43/-11.66	-9.98/-9.48	-9.95/-11.02	-12.74/-13.86	-13.2/-12.14	-11.52/-11.36	-9.65/-9.69
Θ(22.5°)	-4.68/-4	-3.41/-3.4	-3.94/-4.14	-4.06/-3.6	-3.27/-2.9	-2.71/-3.05	-3.21/-3.23	-2.85/-2.34	-2.25/-2.32	-2.64/-3.28	-3.17/-4.57	-5.29/-6.22	-7.59/-9.14	-10.42/-10.63	-10.53/-11.4	-13.35/-17.23	-18.5/-18.11	-18.68/-13.11	-10.48/-9.48	-10.16/-11.58	-11.79/-9.87	-8.25/-7.27	-7.11/-7.06	-5.92/-4.96
Θ(30°)	-6.89/-6.54	-5.36/-4.08	-3.84/-4.34	-3.87/-2.83	-2.21/-1.67	-1.16/-1.38	-1.43/-1.4	-0.99/-0.53	-0.14/0.08	-0.09/-0.87	-2.15/-3.5	-4.85/-4.74	-7.17/-7.76	-7.88/-8.09	-8.75/-10.07	-12.03/-14.2	-16.69/-17.78	-18.31/-17.91	-17.23/-13.94	-11.93/-13.13	-13.89/-9.59	-7.31/-6.59	-6.45/-5.88	-5.14/-5.68
Θ(37.5°)	-2.29/-3.07	-5/-6.46	-5.71/-5.24	-4.58/-3.22	-2.95/-2.55	-1.93/-1.51	-0.9/-0.37	0.08/0.43	0.58/0.64	0.35/-0.58	-1.95/-3.36	-4.42/-5.1	-4.88/-4.63	-5.01/-5.65	-6.14/-7.06	-8.91/-10.66	-11.01/-12.07	-14.99/-18.85	-18.91/-18.38	-18.05/-12.67	-12.73/-13.45	-11.2/-8.49	-6.83/-6.54	-4.19/-2.98
Θ(45°)	-4.14/-2.21	-2.22/-3.37	-3.43/-3.51	-4.76/-3.57	-4.94/-3.57	-2.53/-1.95	-1.29/-0.42	0.18/0.46	0.54/0.43	0.06/-0.41	-1.08/-1.92	-3.05/-3.98	-4.24/-5.1	-5.82/-6.5	-5.99/-7.34	-9.39/-12.42	-15.36/-15.45	-12.52/-13.32	-18.31/-17.37	-19.17/-17.3	-11.87/-8.84	-9.34/-10	-8.86/-7.06	-6.08/-6.32
Θ(52.5°)	-3.26/-1.59	-1.07/-1.44	-0.81/-0.4	-0.77/-1.55	-2.7/-2.95	-2.63/-2.87	-2.53/-1.34	-0.29/0.58	1.01/0.79	-0.62/-1.84	-3.24/-4.97	-6.63/-6.1	-4.97/-3.92	-3.12/-3.22	-4.97/-5.68	-6.05/-5.95	-6.11/-9.38	-18.01/-19.13	-17.67/-18.9	-17.12/-18.12	-16.12/-13.2	-13.31/-8.01	-6.94/-5.83	-4.54/-2.23
Θ(60°)	-5.53/-3																							



Radiated Composite Gain Data

Appendix A

Θ(60°)	-16.21/8.41	-7.64/6.28	-5.06/5.11	-5.82/-8.7	-10.99/-12.84	-12.27/9.88	-9.89/-11.56	-8.87/-8.36	-8.75/-9	-12.42/-12.84	-12.48/-9.29	-7.52/-7.48	-7.41/-10.8	-18.34/-16.63	-10.85/-8.7	-5.78/-3.17	-2.54/-2.84	-1.07/-1.86	-3.57/-5.65	-6.47/-8.47	-15.89/-15.92	-7.93/-6.64	-8.1/-7.72	-11.64/-18.82
Θ(67.5°)	-7.48/-6.79	-5.72/-5.35	-4.42/-3.38	-2.07/-2	-3/-7.48	-11.46/-14.51	-16.44/-14.61	-10.09/-4.85	-7.61/-8.57	-9.92/-10.04	-9.63/-7.94	-7.72/-8.75	-9.11/-12.69	-19.09/-12.89	-7.2/-5.54	-3.83/-3.48	-3.9/-4.07	-5.69/-5.08	-4/-4.86	-6.53/-9.48	-9.79/-9.33	-9.83/-8.75	-13/-13.74	-18/-12.46
Θ(75°)	-6.77/-6.31	-4.24/-3.7	-3.07/-2.14	-0.59/-0.55	-1.43/-3.77	-8.92/-13.3	-13.76/-11.34	-6.28/-5.71	-6.34/-7.18	-6.74/-7	-6.78/-6.38	-6.48/-8.12	-8.83/-11.28	-17.86/-15.11	-12.82/-9.94	-9.15/-6.4	-2.6/-1.28	-1.25/-0.36	-0.63/-2.49	-4.6/-5	-7.05/-9.4	-13.87/-18.81	-19.23/-17.94	-16.04/-8.67
Θ(82.5°)	-12.11/-10.86	-8.23/-6.72	-6.82/-6.78	-2.37/-0.75	-1.96/-4.07	-6.8/-9.98	-15.09/-17.89	-18.02/-16.05	-12.31/-6.51	-5.08/-5.42	-4.97/-5.39	-6.79/-11.1	-14.86/-15.75	-12.71/-11.78	-10.38/-10.37	-13.35/-6.54	-1.9/-0.27	-2.83/-1.72	-4.71/-6.09	-3.9/-3.58	-5.82/-9.35	-11.77/-11.52	-9.56/-10.27	-14.58/-14.13
Θ(90°)	-15.36/-11.6	-9.82/-8.38	-5.69/-6.57	-7.09/-8.2	-5.8/-3.34	-3.46/-5.69	-5.6/-10.59	-12.09/-8.16	-7.69/-4.84	-4.72/-4.44	-4.33/-6.33	-7.6/-11.74	-17.89/-17.15	-9.17/-6.82	-6/-8.23	-16.34/-6.92	-2.13/-1.58	-0.88/-2.43	-2.66/-4.31	-0.36/-0.02	-4.78/-9.78	-6.88/-7.5	-10.07/-10.47	-15.93/-15.6
Θ(97.5°)	-5.39/-7.5	-9.62/-17.88	-17.25/-11.72	-9.95/-9.75	-13.25/-8.8	-4.93/-8.32	-9.31/-7.63	-7.38/-6.65	-4.24/-1.98	-0.98/-1.92	-4.39/-6.32	-8.57/-13.72	-18.54/-15.2	-7.31/-5.16	-4.11/-3.78	-7.41/-6.28	-4.57/-7.4	-5.81/-7.06	-6.04/-4.04	-0.14/-2.78	-12.73/-5.1	-8.8/-8.03	-13.77/-14.9	-11.96/-6.75
Θ(105°)	-1.03/-4.78	-4.21/-8.41	-6.99/-2.22	-2.22/-3.58	-8.44/-7.74	-7.15/-6	-5.9/-4.18	-3.25/-3.28	-2.62/-1.39	-2.78/-4.18	-3.82/-5.04	-6.72/-10.36	-15.91/-19.34	-13.08/-7.14	-4.62/-4.15	-8.96/-12.51	-7.2/-7.98	-2.91/-4.53	-1.85/-5.04	-3.05/-6.88	-5.5/-0.87	-1.44/-3.04	-7.2/-11.53	-14.08/-3.28
Θ(112.5°)	-1.61/-3.57	-5.65/-6.47	-6.36/-4.25	-0.82/-0.26	-2.86/-6.17	-6.81/-10.17	-10.21/-6.39	-4.01/-2.94	-1.33/-1.79	-2.17/-1.5	-3.2/-4.21	-5.57/-8.99	-9.38/-11.5	-17.18/-18.47	-18.36/-14.4	-9.93/-10.44	-17.59/-6.14	-7.11/-1.9	-3.5/-6.03	-8.57/-13.47	-6.04/-0.72	-0.13/-4.21	-11.41/-10.17	-9.76/-6.9
Θ(120°)	-4.61/-4.72	-3.11/-2.91	-2.65/-2.39	-2.74/-4.02	-2.68/-2.07	-1.3/-3.12	-3.14/-2.48	-1.85/-1.13	-2.58/-2.8	-1.32/-2.43	-2.71/-2.76	-4.59/-5.01	-8.47/-11.29	-11.55/-9.35	-7.95/-14	-10.97/-8.91	-7.25/-13.37	-9.87/-9.49	-6.5/-14.43	-12.19/-14.43	-9.54/-12.22	-8.37/-7.2	-18.25/-14.56	-19.39/-8.84
Θ(127.5°)	4.56/-5.52	-5.09/-4.63	-4.71/-6.02	-4.91/-3.35	-0.91/-1.86	-2.9/-2.03	-1.16/-0.43	-0.73/-2.31	-1.93/-2.22	-5.85/-7.08	-5.84/-6.28	-6.85/-7.65	-12.16/-13.98	-11.15/-8.81	-10.63/-10.76	-11.19/-8.92	-9.44/-1.26	-3.69/-9.87	-18.91/-9.73	-5.48/-3.57	-2.19/-9.78	-6.58/-6.07	-11.84/-8.95	-9.8/-7.14
Θ(135°)	-8.8/-7.57	-7.81/-8.7	-7.96/-7.7	-6.79/-6.17	-4.34/-1.67	-0.74/-0.06	1.07/0.8	0.671/3.2	0.820/0.3	-0.53/-2.57	-7.81/-12.47	-9.88/-8.38	-10.85/-13.58	-8.24/-4.3	-5.07/-7.12	-12.19/-7.25	-2.44/-1.89	1.52/-1.9	-2.89/-5.27	-1.05/-0.17	-0.02/-4.53	-11.9/-7.04	-8.22/-12.55	-10.01/-8.82
Θ(142.5°)	-13.92/-17.15	-13.25/-12.3	-9.69/-8.39	-7.54/-7.2	-1.63/-1.15	2.192/-44	3.414/0.6	-8.48/-2.26	0.83/-0.71	-2.38/-4.79	-17.6/-17.96	-18.01/-18.71	-17.98/-18.06	-10.37/-9.92	-4.56/-7.14	-0.3/-1.9	-5.49/-4.42	-0.51/-8.9	-0.48/-8.64	-13.23/-9.68	-8.41/-8.25	-8.43/-9.94	-12.31/-13.9	-11.93/-10.9
Θ(150°)	-18.95/-16.41	-16.01/-19.24	-17.29/-11.33	-5.07/-1.29	0.461/0.4	0.52/-1.15	-1.66/-0.03	0.880/83	0.51/-0.07	-2.15/-5.32	-8.56/-11.55	-15.05/-19.08	-18/-18.16	-15.69/-14.85	-14.6/-13.32	-10.18/-9.48	-14.03/-9.12	-3.64/-2.19	-2.84/-3.09	-2.17/-1.74	-3.12/-4.75	-4.86/-4.45	-4.77/-7.19	-11.07/-18.51
Θ(157.5°)	-15.1/-18.56	-15.76/-11.83	-9.21/-6.77	-4.05/-1.5	-0.170/-28	0.1/-0.29	-0.45/-0.17	0.22/-0.13	-0.96/-1.62	-2.23/-2.94	-4.15/-5.99	-9.82/-13.96	-17.03/-10.37	-7.05/-4.32	-2.4/-1.3	-17.07/-9.92	-1.12/-0.13	0.36/-0.49	-2.19/-3.77	-4.42/-2.47	-4.63/-6.07	-6.74/-5.96	-5.27/-5.73	-7.52/-10.79
Θ(165°)	-15.02/-14.75	-11.79/-9.97	-8.61/-7.32	-6.58/-5.99	-5.94/-62	-6.5/-7.04	-7.31/-6.88	-6.60/-5.19	-4.77/-4.78	-4.68/-4.63	-5.95/-5.7	-8.48/-13.98	-19.04/-11.46	-6.39/-4.08	-2.89/-2.1	-1.59/-1.2	-0.92/-1.28	-2.84/-5.68	-8.92/-13.16	-19.06/-18.45	-13.23/-9.68	-8.41/-8.25	-8.43/-9.94	-12.31/-13.9
Θ(172.5°)	-15.93/-17.33	-18.06/-17.17	-15.6/-13.99	-12.45/-10.85	-9.01/-7.53	-6.29/-5.04	-3.61/-2.38	-1.42/-0.88	-0.87/-1.42	-2.37/-3.47	-5.16/-7.94	-13.38/-17.07	-14.41/-8.42	-5.78/-4.15	-3.21/-3.03	-3.77/-4.92	-6.7/-10.54	-19.55/-17.82	-13.18/-9.65	-8.12/-7.32	-6.55/-5.94	-6.9/-9.75	-13.49/-16.11	-15.96/-15.48
Θ(180°)	-9.87/-9.96	-18.15/-18.55	-16.64/-14.18	-12.95/-11.82	-10.78/-10.04	-9.42/-8.76	-8.97/-9.08	-9.37/-9.8	-10.64/-12.07	-14.05/-15.86	-16.2/-15.04	-13.81/-13.14	-12.8/-13.09	-14.49/-16.76	-17.55/-19.03	-16.81/-14.74	-13.9/-12.8	-11.05/-10.64	-10.45/-10.22	-10.69/-11.07	-10.44/-10.45	-12.56/-16.96	-18.23/-17	-16.68/-18.37
Freq[Hz]	5.785GPol.	Theta/Ant. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-9.38/-10.61	-11.2/-12.51	-13.2/-13.87	-14.41/-14.12	-12.34/-11.06	-10.09/-9	-8.28/-7.33	-6.47/-6.25	-6.03/-6.16	-6.55/-7.38	-8.65/-9.58	-9.86/-10.12	-10.47/-11.77	-14.26/-17.17	-18.13/-17.66	-16.05/-13.64	-12.51/-11.56	-10.61/-9.75	-9.24/-9.3	-9.56/-9.01	-8.12/-7.49	-7.37/-7.56	-7.45/-7.59	-7.39/-8.13
Θ(7.5°)	-16.43/-18.53	-19.27/-19.63	-18.99/-19.08	-18.09/-17.38	-14.27/-11.4	-9.59/-7.93	-6.85/-6.69	-5.26/-5.06	-4.77/-4.72	-5.05/-5.61	-5.64/-5.74	-6.06/-7.4	-8.98/-9.6	-11.24/-13.78	-15.31/-13.66	-11.34/-9.91	-9.51/-9.52	-9.23/-8.53	-8.17/-8.04	-6.88/-9.32	-9.73/-9.6	-9.94/-12.7	-9.94/-12.7	-9.94/-12.7
Θ(15°)	-13.5/-10.28	-8.25/-6.97	-6.51/-7.69	-9.26/-11.58	-11.52/-8.94	-7.43/-5.82	-4.9/-4.37	-4.02/-3.57	-3.28/-3.29	-3.62/-4.26	-4.65/-4.58	-4.39/-4.36	-4.97/-6.31	-8.25/-10.47	-11.41/-11.78	-13.79/-18	-18.41/-15.61	-12.72/-11.59	-12.41/-14.05	-14.71/-13.18	-11.94/-10.49	-10.29/-10.75	-11.58/-12.16	-12.99/-14.8
Θ(22.5°)	-8.2/-6.28	-5.82/-5.17	-4.35/-4.78	-5.98/-6.9	-6.05/-4.89	-4.68/-4.97	-5.26/-5.07	-4.11/-2.87	-2.12/-1.76	-2.16/-3.14	-4.17/-4.66	-4.99/-5.42	-7.02/-6.82	-10.79/-12.72	-14.25/-18.72	-17.67/-15.16	-13.57/-16.41	-17.94/-17.28	-14.6/-13.6	-15.51/-17.85	-19.06/-14.94	-14.64/-17.3	-15.46/-11.17	-15.46/-11.17
Θ(30°)	-2.24/-1.91	-2.95/-4.16	-3.34/-2.11	-2.32/-3.21	-2.77/-2.69	-3.34/-2.79	-2.21/-1.84	-2.12/-2.44	-2.24/-2.08	-2.31/-3.38	-4.78/-5.73	-4.46/-6.28	-7.03/-7.39	-8.12/-8.38	-8.24/-8.13	-8.53/-11.66	-18.51/-17.61	-18.9/-18.48	-17.55/-17.41	-18.19/-15.92	-14.26/-17.34	-9.45/-6.28	-5.5/-6.27	-4.86/-3.44
Θ(37.5°)	-7.41/-5.71	-3.97/-3.46	-3.78/-2.36	-1.66/-2.11	-1.67/-1.8	-2.33/-2.13	-1.82/-2.05	-2.73/-3.18	-2.51/-1.74	-1.48/-1.76	-2.27/-3.51	-5.28/-5.96	-6.27/-7.58	-8.51/-7.52	-6.19/-6.4	-8.95/-12.63	-16.01/-16.83	-18.46/-18.62	-18.12/-18.06	-16.28/-12.48	-10.21/-9.32	-6.7/-4.42	-4.63/-5.48	-5.9/-7.2
Θ(45°)	-7.1/-4.7	-3.55/-4.12	-5.05/-5.41	-3.16/-2.32	-1.13/-1.15	-1.86/-1.82	-2.21/-2.68	-2.2/-1.68	-0.530/55	0.51/0.13	-1.05/-3	-5.61/-3.74	-6.99/-11.58	-9.46/-7.63	-6.71/-7.29	-7.97/-9.69	-15.92/-18.83	-14.76/-11.87	-14.45/-14	-15.93/-17.78	-16.93/-9.85	-8.91/-10.16	-10.9/-9.82	-8.91/-6.61
Θ(52.5°)	-2.48/-1.25	-0.83/-2.04	-3.18/-5.97	-6.37/-5.53	-3.73/-3.28	-3.72/-3.45	-3.52/-4.12	-4.65/-4	-2.74/-1.31	-1.51/-2.83	-3.48/-5.78	-7.28/-7.71	-8.12/-6.25	-4.94/-4.41	-4.75/-4.32	-5.79/-8.29	-9.97/-13.22	-13.27/-12.7	-10.05/-9.12	-10.31/-11.16	-10.47/-9.97	-8.91/-6.89	-4.5/-3.15	-4.5/-3.15
Θ(60°)	-3.78/-3.54	-3.51/-2.95	-1.7/-2.76	-3.24/-1.3	-4.42/-4.44	-4.2/-4.68	-5.43/-4.86	-4.2/-3.52	-2.28/-1.57	-1.2/-1.61	-2.79/-3.92	-4.84/-6.08	-5.14/-5.6	-5.11/-3.44	-3.25/-5.24	-8.07/-8.02	-8.53/-12	-17.84/-16.72	-19.35/-18.19	-17.9/-15.6	-14.12/-14.57	-12.29/-7.87	-6.12/-3.79	-3.07/-3.05
Θ(67.5°)	-5.58/-0.43	-4.42/-4.46	-2.91/-3.3	-3.15/-4.1	-4.62/-4.95	-5.96/-6.66	-7.87/-8.46	-5.48/-3.23	-2.07/-2.09	-2.44/-1.66	-2.71/-3.59	-4.24/-4.97	-3.26/-1.66	-1.02/-0.51	-1.99/-7.3	-8.54/-9.51	-5.52/-4.03	-17.74/-18.62	-19.23/-14.7	-11.84/-17.61	-18.16/-16.89	-12.46/-7.64	-5.63/-5.48	-3.19/-3
Θ(75°)	-7.66/-6.46	-4.88/-4.28	-4.34/-8.83	-6.23/-5.85	-5.2/-4.8	-6.02/-7.16	-9.58/-8.44	-6.07/-3.54	-2.62/-3.07	-4.17/-3.71	-2.41/-2.54	-2.23/-2	-1.34/-1.44	-2.13/-1.14	-2.68/-6.87	-6.97/-1.86	-11.62/-14.9	-18.78/-15.37	-16.83/-9.84	-9.82/-19.05	-16.27/-9.83	-8.14/-6.76	-7.04/-6.5	-7.04/-6.5
Θ(82.5°)	-8.11/-5.98	-4.57/-3.17	-3.32/-3.82	-6.55/-6.99	-7.3/-5.41	-6.66/-6.62	-7.62/-7.84	-5.44/-3.39	-2.36/-2.68	-3.58/-3.12	-3.08/-2.45	-1.87/-1.79	-0.32/-0.43	0.27/-0.33	-2.81/-7.39	-7.69/-6.54	-5.91/-7.41	-6.08/-9.22	-15.8/-13.17	-18.91/-10.02	-8.84/-8.37	-5.92/-3.25	-3.64/-5.52	-7.56/-12.47
Θ(90°)	-11.08/-9.67	-4.7/-2.22	-1.94/-2.15	-4.68/-5.87	-7.14/-6.34	-6.36/-6.05	-6.86/-6.02	-4.81/-4.38	-3.46/-2.91	-3.79/-2.91	-2.67/-3.3	-3.62/-4.19	-3.37/-4.56	-2.57/-1.2	-3.2/-5.2	-11.1/-10.04	-7.26/-8.25	-10.73/-15.66	-17.8/-13.96	-14.76/-1.15	-9.83/-8.26	-6.03/-4.27	-5.56/-6.43	-3.73/-3.46
Θ(97.5°)	-13.25/-7.77	-3.18/-1.11	0.36/0.02	-0.68/-2.72	-2.97/-2.56	-4.16/-4.12	-4.71/-6.1	-4.31/-2.04	-1.44/-2.65	-3.2/-2.72	-2.77/-1.9	-3.72/-5.26	-5.54/-9.45	-6.21/-8.11	-4.16/-7.49	-8.15/-8.9	-11.29/-9.46	-6.9/-15.67	-13.59/-8.9	-9.97/-12.34	-12.32/-7.64	-11.14/-17.32	-11.68/-17.66	-11.68/-17.66
Θ(105°)	-6.49/-3.72	-3.24/-2.49	-2.07/-1.6	0.21/-0.15	0.31/-0.01	-1.38/-2.8	-3.88/-6.74	-1.81/-1.58	-0.170	-0.25/-0.3	-1.77/-2.5	-1.47/-1.11	-7.24/-8.07	-6.94/-9.09	-3.83/-4.14	-7.43/-6.14	-9.09/-8.85	-5.84/-15.37	-14.71/-11.08	-13.99/-8.01	-4.57/-6.91	-5.68/-10.96	-11.94/-16.51	-13.66/-5.27
Θ(112.5°)	-5.18/-5.29	-5.7/-3.59	-1.74/-0.82	0.51/-62	1.95/-1.6	-0.11/-2.1	-3.8/-4.5	-4.61/-2.07	-0.27/-0.55	1.380/84	0.22/0.3	-1.45/-2.17	-											



Radiated Composite Gain Data

Appendix A

Θ (105°)	-18.4/-18.94	-19.15/-14.65	-17.53/-18.99	-18.43/-17.93	-16.96/-15.01	-10.1/-8.77	-8.58/-7.95	-8.18/-9.73	-6.79/-3.99	-3.7/-5.57	-11.04/-19.12	-16.92/-8.26	-4.12/-4.2	-6.36/-8.13	-6.67/-7.55	-10.58/-11.4	-10.86/-17.94	-4.77/-3.37	-3.21/-4.77	-3.59/-2.2	-3.71/-4.26	-8.75/-10.05	-12.43/-17.42	-13.18/-11.72
Θ (112.5°)	-15/-17.66	-15.76/-15.14	-18.09/-18.82	-19.18/-16.37	-11.66/-11.69	-11.06/-11.92	-10.29/-8.04	-10.06/-18.51	-11.58/-4.19	-1.97/-4.29	-10.9/-19.1	-14.84/-6.17	-1.59/-1.27	-2.99/-3.7	-6.04/-8.26	-5.44/-5.21	-10.04/-8.14	-3.4/-4.39	-6.31/-4.85	-2.59/-1.85	-3/-4.86	-9.91/-16.05	-10.05/-9.43	-13.29/-16.51
Θ (120°)	-6.42/-10.07	-18.33/-17.8	-19.12/-18.03	-16.61/-11.43	-8.17/-9.72	-13.55/-13.07	-13.72/-12.94	-14.51/-15.8	-8.6/-3.95	-2.96/-2.9	-6.68/-12.01	-6.67/-7.5	-1.51/-7.7	-8.31/-3.17	-3.86/-5.22	-6.72/-7.9	-10.92/-7.26	-3.2/-3.94	-4.87/-2.83	-8.87/-7.23	-18.85/-11.96	-9.39/-2.86	-2.96/-3.41	
Θ (127.5°)	-4.98/-3.92	-4.31/-6.83	-8.99/-13.84	-13.42/-10.96	-8.99/-9.85	-11.94/-11.47	-14.98/-14.45	-14.02/-16.93	-9.64/-4.53	-3.78/-3.23	-4.63/-3.89	-6.29/-11.57	-3.31/-4.86	-6.45/-1.87	-3.59/-6.62	-7.64/-10.85	-11.67/-4.94	-1.33/-2.86	-5.63/-4.95	-3.52/-1.42	-2.6/-4.51	-9.35/-12.71	-6.61/-5.49	-2.34/-3.37
Θ (135°)	-11.12/-12.55	-10.07/-10.06	-11.6/-12.85	-15.15/-12.36	-13.16/-12.04	-8.13/-6.38	-6.16/-7.59	-11.8/-12.07	-9.78/-10.14	-8.53/-9.29	-16.35/-18.61	-13.59/-5.12	-4.47/-4.62	-5.96/-10.8	-7.99/-3.85	-4.7/-8.86	-11.61/-5.93	-2.72/-3.59	-5.6/-4.05	-2.99/-1.94	-2.9/-8.11	-6.84/-12.93	-13.58/-9.05	-9.51/-8.88
Θ (142.5°)	-6.1/-6.07	-5.62/-7.02	-9.24/-9.85	-10.59/-12.33	-14.68/-14.27	-11.56/-7.33	-5.41/-6.24	-7.46/-7.06	-6.59/-7.47	-8.69/-12.91	-12.65/-14.78	-18.75/-8.57	-3.55/-3.97	-6.22/-5.84	-3.77/-4.62	-9.43/-17.93	-11.52/-6.29	-5.34/-6.75	-7.95/-8.84	-9.95/-7.4	-5.99/-8.38	-8.42/-6.73	-8.14/-5.97	-4.8/-5.31
Θ (150°)	-6.01/-9.83	-15.45/-17	-13.94/-15.95	-18.38/-13.44	-9.13/-7.53	-7.6/-7.81	-7.46/-7.16	-7.6/-8.9	-9.83/-11.32	-13.5/-12.99	-11.39/-8.4	-4.18/-1.57	-1.14/-2.76	-6.08/-9.93	-14.04/-17.56	-17.96/-18.83	-14.53/-9.36	-7.94/-8.78	-9.05/-9.3	-10.16/-8.84	-5.8/-4.37	-4.61/-4.19	-3.18/-2.67	-2.55/-3.61
Θ (157.5°)	-4.6/-6.14	-7.98/-10.45	-15.55/-17.54	-14.95/-11.02	-9.58/-8.21	-7.1/-6.65	-6.74/-7.23	-8.63/-11.07	-14.63/-19.08	-16.54/-11.88	-9.28/-7.6	-6.5/-6.38	-7.56/-9.27	-10.46/-11.6	-13.4/-15.3	-14.5/-12.5	-11.88/-12.96	-16.49/-19.36	-18.98/-17.75	-16.43/-14.98	-12.1/-9.12	-7.71/-6.68	-4.79/-3.31	-2.96/-3.41
Θ (165°)	-0.17/-1.12	-2.86/-5.49	-8.33/-10.69	-13.53/-17.62	-19.03/-16.81	-13.37/-11.39	-11.33/-12.41	-13.65/-17.12	-18.42/-19.75	-14.17/-10.74	-8.49/-6.99	-5.81/-4.92	-4.56/-4.99	-6.02/-7.5	-8.43/-8.3	-7.97/-8.52	-9.9/-13.06	-18.47/-17.5	-18.45/-14.73	-12.62/-10.94	-8.27/-5.5	-3.38/-2.22	-1.41/-0.53	0.010.01
Θ (172.5°)	-6.71/-8.11	-11.33/-16.82	-17.81/-18.06	-14.03/-11.77	-11.01/-10.98	-11.74/-12.83	-15.32/-17.78	-18.48/-19.01	-14.13/-11.19	-8.81/-7.3	-7.19/-7.88	-8.71/-9.33	-9.7/-9.77	-9.6/-9.29	-9.17/-9.44	-10.59/-12.59	-14.99/-16.49	-15.21/-13.67	-12.68/-12.32	-12.63/-12.12	-11.26/-9.54	-8.1/-7.67	-8.24/-7.86	-7.04/-6.81
Θ (180°)	-9.77/-8.9	-7.59/-6.23	-6.24/-7.06	-8.11/-10.09	-13.78/-18.05	-19.15/-17.79	-19.01/-16.82	-14.78/-12.96	-11.51/-9.91	-8.48/-7.63	-7.24/-7.39	-7.68/-7.89	-8.31/-8.81	-9.76/-10.89	-11.68/-12.75	-13.55/-15.84	-18.54/-18.15	-17.48/-17.88	-15.77/-14.13	-13/-12.41	-12.79/-12.71	-12.69/-12.47	-12.95/-13.09	-11.35/-10.46
Freq(Hz)	5.2G/Pol.	Theta/Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Ψ(7.5°)	Φ(15°)/Ψ(22.5°)	Φ(30°)/Ψ(37.5°)	Φ(45°)/Ψ(52.5°)	Φ(60°)/Ψ(67.5°)	Φ(75°)/Ψ(82.5°)	Φ(90°)/Ψ(97.5°)	Φ(105°)/Ψ(112.5°)	Φ(120°)/Ψ(127.5°)	Φ(135°)/Ψ(142.5°)	Φ(150°)/Ψ(157.5°)	Φ(165°)/Ψ(172.5°)	Φ(180°)/Ψ(187.5°)	Φ(195°)/Ψ(202.5°)	Φ(210°)/Ψ(217.5°)	Φ(225°)/Ψ(232.5°)	Φ(240°)/Ψ(247.5°)	Φ(255°)/Ψ(262.5°)	Φ(270°)/Ψ(277.5°)	Φ(285°)/Ψ(292.5°)	Φ(300°)/Ψ(307.5°)	Φ(315°)/Ψ(322.5°)	Φ(330°)/Ψ(337.5°)	Φ(345°)/Ψ(352.5°)
Θ (0°)	-3.69/-3.74	-3.75/-3.99	-4.95/-6.11	-6.96/-6.35	-10.36/-13.54	-18.3/-18.31	-18.74/-17.53	-13.97/-11.55	-9.28/-8.13	-6.61/-5.48	-4.9/-4.36	-4.01/-3.93	-3.92/-3.81	-4.05/-4.68	-5.38/-6.12	-7.09/-8.15	-9.57/-11.75	-15/-17.74	-18.25/-16.7	-12.66/-9.99	-7.91/-6.62	-6.09/-5.65	-5.24/-4.45	-4.05/-3.92
Θ (7.5°)	-4.76/-4.85	-4.99/-5.27	-6.4/-7.5	-8.41/-9.62	-11.37/-13.89	-16.13/-19.16	-19.03/-18.7	-11.81/-9.5	-7.35/-8.89	-4.79/-3.91	-3.52/-4.33	-3.18/-3.04	-3.18/-3.59	-4.26/-5.18	-6.31/-7.66	-9.64/-12.65	-18.34/-18.77	-17.34/-12.95	-10.4/-9.35	-8.24/-7.73	-6.84/-6.48	-5.62/-5.24	-4.6/-4.6	
Θ (15°)	-5.84/-5.63	-5.67/-5.61	-6.29/-7.18	-7.91/-9.29	-11.5/-13.4	-13.56/-14.56	-16.69/-18.37	-18.31/-17.79	-12.46/-9.55	-7.03/-5.36	-4.39/-3.96	-4.05/-4.08	-4.11/-3.95	-3.6/-3.29	-3.26/-3.25	-3.78/-4.77	-6.06/-8.06	-9.9/-11.35	-12.21/-11.89	-11.52/-10.55	-8.98/-8.4	-8.47/-8.77	-8.8/-7.98	-7.4/-6.8
Θ (22.5°)	-6.32/-6.77	-6.57/-6.46	-6.31/-6.82	-7.66/-8.87	-11.3/-13.56	-14.7/-16.79	-18.41/-18.16	-18.88/-14	-11.25/-8.62	-6.96/-5.38	-4.33/-3.91	-3.66/-3.27	-3.09/-3.17	-3.33/-3.3	-2.8/-2.08	-1.95/-2.61	-3.95/-6.05	-7.37/-6.76	-6.94/-6.25	-6.32/-6.75	-6.72/-5.98	-5.68/-6	-6.25/-5.95	-5.89/-6.1
Θ (30°)	-8.22/-8.79	-8.38/-7.59	-9.01/-7.69	-9.3/-11.27	-15.11/-18.57	-18.89/-19.18	-18.17/-16.12	-13.68/-10.54	-7.96/-5.72	-4.12/-3.12	-2.41/-2.14	-1.76/-1.18	-0.94/-1.21	-2.04/-2.87	-3.06/-2.43	-1.71/-1.75	-2.67/-3.45	-4.05/-4.92	-5.61/-4.99	-5.21/-5.51	-7.76/-8.88	-8.81/-9.12	-9.84/-9.19	-8.35/-7.48
Θ (37.5°)	-10.38/-10	-8.51/-6.58	-6.03/-7.19	-10.42/-17.63	-17.39/-15.55	-13.96/-16.14	-19.04/-18.09	-15.92/-11.26	-8.21/-5.43	-3.03/-1.33	-0.67/-0.9	-1.08/-0.38	0.420/-33	-0.9/-2.74	-3.93/-4.07	-3.78/-3.58	-3.1/-2.1	-1.88/-2.95	-5.9/-9.5	-10.23/-9.8	-11.33/-14.59	-13.93/-11.37	-10.33/-9.84	-9.69/-9.77
Θ (45°)	-13.21/-14.17	-12.09/-8.69	-7.44/-9.25	-12.65/-18.35	-17.87/-10.71	-8.65/-8.93	-15.15/-18.22	-16.79/-11.87	-9.78/-8.77	-5.38/-2.95	-1.63/-2.04	-2.58/-1.81	-0.99/-0.97	-2.16/-4.6	-7.05/-7.36	-5.14/-2.25	-0.74/-1.28	-3.52/-5.3	-5.4/-5.73	-6.55/-7.7	-9.33/-12.82	-15.22/-11.91	-10.25/-9.54	-9.67/-11.4
Θ (52.5°)	-10.81/-12.46	-12.26/-12.75	-14.98/-18.37	-18.53/-18.44	-14.63/-9.39	-7.79/-8.08	-11.07/-18.18	-8.35/-14.3	-8.53/-6.22	-4.84/-2.76	-1.48/-2.39	-3.72/-3.48	-3.45/-4.18	-4.98/-6.22	-8.34/-9.02	-6.02/-3.06	-1.81/-1.78	-1.8/-2.12	-2.75/-4.77	-9.61/-14.28	-15.23/-15.89	-12.36/-8.82	-8.49/-8.26	-7.86/-8.3
Θ (60°)	-6.78/-8.1	-8.72/-11.64	-18.71/-18.99	-17.89/-17.88	-15.17/-11.41	-10.43/-9.72	-9.71/-10.6	-16.86/-18.35	-8.5/-6.1	-6.74/-5.86	-2.95/-3.53	-5.38/-3.26	-3.38/-6.84	-9.75/-9.27	-8.63/-8.4	-6.33/-4.16	-3.31/-2.6	-1.61/-2.23	-4.44/-5.44	-6.3/-8.43	-8.18/-9.26	-9.24/-7.07	-6.78/-5.74	-5.12/-5.49
Θ (67.5°)	-9.82/-11.36	-13.7/-15.28	-18.17/-18.45	-17.67/-18.29	-17.23/-14.57	-13.9/-2.28	-7.08/-6.73	-11.44/-18.13	-9.8/-4.6	-3.72/-4.35	-1.6/-3.5	-4.41/-4.08	-2.35/-8.81	-11.91/-9.4	-8.5/-6.46	-2.52/-1.5	-2.02/-2.42	-2.53/-2.35	-2.69/-6.35	-5.18/-6.26	-7.02/-8.39	-10.83/-10.69	-9.9/-7.14	-7.89/-9.1
Θ (75°)	-12.61/-137	-16.53/-16.33	-18.16/-18.49	-19.33/-16.41	-16.68/-13.24	-9.01/-5.59	-4.27/-4.46	-7.94/-15.64	-12.03/-5.05	-2.58/-5.07	-0.81/-2.54	-4.71/-0.53	-2.31/-1.48	-17.41/-14.39	-8.79/-3.43	-0.040/-53	0.64/-11	-1.33/-3.32	-4.8/-3.63	-3.82/-3.7	-2.85/-3.41	-6.02/-9.21	-13.8/-12.5	-14.9/-16.45
Θ (82.5°)	-9.37/-11.35	-11.04/-13.67	-19.05/-17.06	-16.38/-10.52	-13.23/-9.91	-7.13/-5.23	-4.1/-4.95	-6.9/-11.44	-18.81/-6.91	-3.08/-5.38	-0.98/-5.22	-5.92/-4.88	-11.26/-18.72	-19.19/-14.11	-6.23/-1.21	1.04/-1.24	1.270.24	-0.88/-3.19	-5.18/-3.85	-2.91/-1.97	-2.42/-2.02	-4.09/-8.3	-15.5/-18.65	-17.81/-11.67
Θ (90°)	-5.93/-6.94	-5.83/-8.61	-12.52/-15.05	-12.89/-7.56	-9.17/-8.02	-7.27/-6.96	-7.94/-9.16	-7.79/-8.08	-9.09/-18.82	-8.1/-10.11	-3.23/-7.14	-8.62/-9.96	-18.69/-17.1	-15.15/-15.32	-9.09/-2.53	-0.94/-1.01	-0.46/-1.95	-1.76/-1.74	-3.56/-2.61	-1.93/-1.66	-2.75/-3.53	-4.49/-8.83	-12.82/-9.98	-6.66/-6.4
Θ (97.5°)	-3.03/-4.28	-3.75/-6.92	-12.99/-17.19	-13.85/-10.7	-11.49/-7.4	-8.43/-9.79	-9.08/-7.34	-5.59/-6.4	-7.21/-19.03	-16.58/-12.26	-6.82/-8.86	-8.03/-11.87	-10.43/-13.6	-15.39/-11.57	-9.6/-5.04	-1.68/-3.52	-4.76/-4.97	-2.32/-1.47	-1.68/-2.78	-1.89/-2.07	-1.98/-2.61	-5.09/-6.06	-6.77/-9.44	-1.53/-11
Θ (105°)	-2.64/-2.2	-3.19/-6.6	-10.96/-11.5	-11.24/-11.81	-16.63/-13.06	-8.11/-6.59	-4.98/-3.56	-3.61/-5.16	-8.04/-17.61	-17.55/-11.16	-7.16/-9.25	-9.47/-12.79	-18.15/-18.35	-17.99/-17.67	-15.72/-8.85	-8.39/-5.67	-7.56/-6.42	-1.73/-1.17	-1.53/-1.61	-2.67/-0.46	-1.65/-2.44	-4.49/-7.35	-6.33/-3.94	-0.62/-0.65
Θ (112.5°)	-4.38/-4.73	-3.49/-5	-7.57/-9.64	-9.25/-9.17	-11.76/-14.63	-11.93/-16.4	-5.24/-5.43	-5.16/-8	-13.82/-10.48	-18.19/-16.56	-14.37/-14.81	-10.78/-18.43	-7.69/-6.5	-13.24/-12.63	-12.69/-13.2	-5.12/-6.27	-6.76/-7.87	-1.83/-1.39	-3.56/-2.97	-5.18/-6.33	-1.47/-2.22	-2.45/-4.91	-5.81/-4.56	-0.94/-0.46
Θ (120°)	-2.25/-4.84	-3.88/-5.16	-7.54/-8.34	-7.43/-5.67	-5.36/-8.01	-10.46/-9.13	-5.88/-3.74	-3.15/-2.99	-4.34/-7.97	-13.66/-18.67	-18.25/-16.3	-12.99/-18.88	-7.62/-6.13	-11.97/-15.71	-7.33/-5.39	-4.74/-3.98	-5.52/-9.15	-2.85/-1.83	-6.16/-4.24	-3.61/-6.25	-1.51/-2.45	-4.46/-2.95	-5.99/-3.57	-0.720.1
Θ (127.5°)	-1.74/-4.99	-2.4/-2.21	-5.2/-2.16	-6.46/-4.61	-3.6/-3.3	-9.84/-13.08	-8.14/-3.57	-1.73/-1.57	-2.64/-5.32	-9.97/-17.19	-18.8/-18.34	-13.45/-15.37	-5.89/-4.22	-9.23/-8.16	-7.13/-10.23	-6.45/-4.12	-10.26/-18.58	-6.58/-3.98	-10.6/-6.4	-5.35/-9.62	-6.9/-9.79	-1.47/-5.76	-4.85/-6.83	-1.460.34
Θ (135°)	-2.7/-10.15	-11/-9.24	-7.23/-4.88	-3.46/-3.24	-4.12/-5.21	-7.18/-11.28	-10.85/-7.83	-6.51/-6.05	-6.4/-6.86	-8.59/-11.59	-11.1/-3.92	-8.31/-6.65	-5.74/-7.91	-9.78/-14.33	-13.98/-8.54	-4.03/-8.82	-16.63/-9.92	-8.18/-6.56	-17.64/-8.54	-13.07/-3.67	-6.19/-2.22	-1.26/-7.59	-6.18/-3.96	-1.990.45
Θ (142.5°)	-3.03/-5.61	-9.16/-7.84	-5.03/-4.12	-4.36/-5.31	-6.75/-9.86	-17.43/-18.77	-10.72/-7	-4.63/-3.93	-4.86/-6.51	-7.85/-9.76	-12.81/-17.85	-18.42/-18.2	-18.46/-16.15	-13.56/-18.97	-11.51/-6.26	-8.13/-9.52	-7.09/-16.5	-3.74/-9.88	-15.51/-18.58	-9.66/-2.78	-1.77/-4.1	-2.75/-3.22	-6.38/-5.04	-2.48/-2.09
Θ (150°)	-9.91/-8.63	-6.76/-6.05	-5.83/-4.66	-5.31/-6.32	-8.14/-9.94	-12.14/-12.61	-12.68/-12.8	-14.27/-16.27	-14.4/-13.22	-11.94/-10.72	-11.05/-13.76	-19.16/-14.94	-12.26/-13.75	-18.77/-18.39	-18.79/-15.68	-16.93/-9.52	-3.67/-1.53	-1.44/-3.68	-9.64/-17.73	-17.85/-7.74	-4.35/-4.77	-7.25/-6.11	-5.11/-6.31	-6.74/-8.83
Θ (157.5°)	-8.67/-8.19	-7.55/-7.14	-7.71/-9.03	-9.78/-10.6																				



Radiated Composite Gain Data

Appendix A

Θ (165°)	-2.18/-2.64	-3.42/-4.77	-7.55/-12.1	-14.18/-10.7	-8.17/-7.4	-7.91/-8.51	-8.2/-7.7	-7.82/-8.42	-10.16/-14.17	-17.41/-13.14	-9.77/-8.16	-7.41/-8.03	-11.48/-17.65	-17.67/-15.18	-15.25/-17.15	-17.78/-17.08	-15.58/-15.55	-17.96/-18.56	-17.26/-18.61	-16.89/-16.4	-12.79/-9.83	-9.25/-7.99	-5.46/-3.43	-2.39/-2.01
Θ (165°)	-4.83/-5.19	-6.06/-7.91	-10.6/-11.81	-12.12/-12.29	-10.89/-9.17	-8.23/-9.24	-7.49/-8.31	-10.1/-11.31	-13.19/-15.27	-15.55/-12.51	-10.87/-9.74	-9.08/-7.83	-9.48/-11.61	-15.94/-18.86	-15.5/-11.62	-9.99/-10.52	-12.84/-17.57	-18.95/-18.37	-18.97/-18.43	-18.63/-18.23	-14.81/-12.12	-10.12/-8.77	-6.9/-4.52	-5.13/-5.2
Θ (175°)	-6/-6.6	-8.13/-11.83	-17.86/-18.13	-13.15/-15.18	-13.15/-12.08	-12.75/-12.69	-16.33/-16.82	-18.63/-18.12	-16.33/-14.86	-17.35/-14.88	-14.42/-14.34	-12.86/-10.83	-8.69/-7.22	-6.32/-6.02	-5.84/-6.17	-10.91/-11.69	-13.64/-15.01	-15.02/-15.19	-15.02/-15.43	-13.44/-11.79	-10.92/-10.62	-9.53/-8.47	-8.23/-7.34	
Θ (180°)	-9.34/-7.85	-6.33/-5.82	-5.77/-5.74	-6.57/-8.79	-11.49/-13.72	-15.06/-16.6	-16.71/-15.8	-14.14/-13.01	-13.25/-13.75	-13/-12.49	-11.98/-12.07	-12.17/-12.32	-13.08/-14.25	-15.67/-16.76	-17.47/-18.17	-18.58/-18.23	-15.96/-15.36	-14.02/-14.7	-13.81/-14.49	-15.87/-16.57	-17.53/-17.21	-19.48/-18.12	-19.17/-18.04	-16.52/-12.04
Freq(Hz)	5.6GPol.	Theta/Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ (0°)	-4.91/-4.85	-4.89/-5.46	-5.13/-5.39	-5.9/-6.2	-6.19/-6.61	-7.8/-8.41	-8.31/-8.59	-8.98/-9.28	-9.87/-9.82	-9.09/-8.32	-7.34/-6.87	-6.48/-6.07	-5.54/-5	-4.33/-4.13	-4.07/-4.3	-4.5/-5.12	-5.94/-6.43	-7.14/-7.6	-8.03/-8.19	-8.85/-9.43	-9.25/-8.45	-7.6/-7.15	-6.45/-5.77	-5.43/-5.31
Θ (7.5°)	-4.6/-5.7	-4.4/-4.15	-4/-1.8	-4.85/-5.12	-5.52/-6.47	-8.01/-9.52	-9.79/-10.83	-12.36/-12.89	-11.85/-10.26	-8.73/-7.29	-6.22/-5.38	-5.03/-4.94	-4.73/-4.54	-4.37/-6.1	-5.22/-5.92	-6.82/-7.65	-8.2/-8.39	-8.44/-8.2	-7.76/-7.88	-8.15/-8.43	-8.88/-9.35	-9.84/-9.75	-8.42/-7.27	-5.97/-5.34
Θ (15°)	-5.91/-5.56	-5.13/-4.93	-4.73/-4.68	-5.58/-6.28	-6.95/-8.49	-10.58/-13.57	-16.49/-18.13	-19.18/-15.18	-12.24/-10.02	-7.99/-6.65	-5.7/-5.15	-4.74/-4.26	-3.48/-2.76	-2.14/-1.84	-1.97/-2.56	-3.45/-4.58	-5.89/-6.95	-7.85/-7.63	-6.82/-6.18	-6.56/-7.28	-8.25/-9.54	-11.02/-10.98	-10.48/-9.44	-8.08/-6.67
Θ (22.5°)	-10.96/-10.32	-9.94/-9.11	-7.71/-7.21	-8.06/-8.5	-8.37/-8.52	-9.16/-10.33	-13.24/-18.15	-18.08/-18.64	-13.49/-9.91	-6.98/-5.19	-4.26/-4.06	-4.54/-5	-4.83/-3.95	-2.78/-1.63	-1.03/-1.11	-1.76/-2.43	-2.8/-4.32	-4.27/-5.6	-6.28/-5.98	-6.35/-7.47	-9.63/-11.94	-13.39/-12.85	-14.17/-13.62	-13/-11.75
Θ (30°)	-17.73/-18.69	-19.71/-15.4	-11.77/-9.44	-8.32/-8.14	-7.39/-7.81	-9.03/-10.1	-11.62/-12.79	-15/-13.77	-11.08/-7.05	-4.64/-3.34	-2.95/-3.3	-4.58/-5.75	-5.29/-3.76	-2.16/-1.31	-1.09/-1.26	-1.78/-2.26	-3.32/-4.37	-5.14/-6.43	-8.54/-11.41	-11.91/-10.09	-10.9/-12.8	-14.85/-14.59	-16.14/-16.21	-16.43/-18.34
Θ (37.5°)	-11.86/-11.9	-12.62/-13.55	-13.02/-10.03	-8.29/-7.51	-6.95/-7.67	-10.84/-16.07	-19.39/-16.8	-13.53/-12.77	-11.5/-9.18	-7.71/-3.28	-1.38/-0.78	-1.86/-2.84	-2.74/-3.17	-3.78/-3.24	-2.18/-1.43	-0.87/-0.88	-2.49/-6.32	-10.97/-11.31	-8.52/-8.28	-11.33/-10.89	-14.28/-16.62	-18.93/-18.68	-17.79/-16.57	-16.58/-14.88
Θ (45°)	-9.54/-12.58	-17.5/-18.42	-12.96/-11.08	-10.7/-10.31	-9.74/-10.18	-13.05/-14.87	-16.64/-18.46	-15.84/-10.93	-8.25/-5.91	-5.22/-3.24	-0.47/-0.23	-1.96/-2.1	-0.74/-0.77	-2.09/-3.53	-4.28/-3.83	-3.13/-3.12	-4.09/-4.57	-4.71/-6.36	-10.28/-11.52	-12.24/-14.54	-15.18/-15.73	-18/-18.89	-12.53/-11.47	-12.23/-10.01
Θ (52.5°)	-9.78/-10.33	-9.5/-8.64	-9.65/-11.12	-11.43/-12.69	-16.15/-15.2	-10.18/-8.94	-10.49/-12.73	-13.93/-16.83	-1.7/-8.63	-8.05/-6.51	-2.17/-1.68	-3.65/-1.99	-0.94/-2.61	-4.63/-4.63	-5.65/-6.81	-5.53/-3.09	-1.96/-2.25	-4.16/-6.1	-7.2/-9.48	-10.89/-9.96	-12.23/-13.97	-14.33/-13.82	-13.21/-10.87	-9.94/-9.72
Θ (60°)	-12.03/-13.12	-12.13/-13.19	-13.06/-10.76	-9.71/-11.19	-16.14/-18.75	-12.29/-10.08	-8.89/-9	-11.26/-13.72	-18.97/-11.4	-6.53/-6.06	-4.15/-3.78	-6.99/-4.81	-2.7/-3.3	-8.13/-7.6	-6.74/-7.83	-6.65/-3.64	-2.33/-2.24	-1.89/-2.61	-4.67/-6.55	-7.88/-7.06	-7.75/-13.25	-10.6/-9.18	-12.46/-11.29	-10.03/-9.9
Θ (67.5°)	-16.8/-14.31	-12/-12.85	-15.3/-14.7	-14.25/-16.73	-18.26/-19.16	-15.48/-12.53	-12.75/-10.17	-10.4/-15.01	-15.53/-12.97	-11.03/-10.68	-5/-2.91	-9.3/-3.6	-1.95/-6.49	-18.4/-12.98	-7.51/-6.84	-4.5/-3.39	-4/-2.8	-0.74/-0.63	-2.13/-4.21	-5.94/-5.9	-5.4/-10.5	-12.62/-10.36	-12.03/-15.21	-19.21/-17.71
Θ (75°)	-11.87/-11.47	-11.7/-17.08	-10.88/-15.66	-15.82/-17.34	-18.67/-18.18	-13.18/-12.88	-9.12/-7.41	-10.7/-15.5	-18.34/-16.68	-6.47/-8.24	-4.19/-3.3	-7.58/-3.22	-1.89/-5.64	-15.77/-12.53	-7.59/-6.13	-2.52/-1.15	-3.09/-3.49	-1.05/-0.1	-1.23/-0.38	-2.26/-2.36	-2.08/-5.01	-9.29/-14.98	-18.46/-18.63	-19.47/-16.7
Θ (82.5°)	-9.02/-8.56	-6.15/-7.14	-6.91/-8.66	-17.92/-18.1	-18.43/-18.03	-17.65/-11.78	-8.19/-5.75	-7.79/-13.74	-18.49/-14.77	-3.48/-4.15	-4.15/-0.96	-5.92/-2.99	-6.07/-16.05	-12.92/-10.62	-6.52/-2.89	-0.48/-0.3	-1.71/-2.08	-2.23/-1.35	-0.54/-0.84	-0.29/-0.62	0.8/-0.35	-3.44/-7.65	-16.63/-18.36	-19/-11.68
Θ (90°)	-6.04/-7.31	-5.56/-4.78	-6.55/-5.56	-11.62/-18.48	-18.29/-18.72	-17.59/-14.16	-8.74/-7.08	-8.47/-7.29	-11.13/-15.24	-5.16/-4.56	-2.88/-2	-5.31/-4.06	-17.86/-9.78	-8.27/-7.69	-5.46/-1	0.61/-0.1	-0.42/-1.16	-1.71/-1.39	-0.2/-0.69	-1.23/-1.06	0.290/-5.6	-2.51/-5.87	-11.48/-12.9	-9.25/-6.75
Θ (97.5°)	-4.56/-4.7	-4.69/-4.8	-6.88/-5.15	-8.36/-10.16	-12.59/-17.23	-17.42/-19.16	-14.48/-10.77	-5.63/-3.59	-5.64/-11.2	-12.11/-12.41	-6.14/-10.2	-8.37/-10.75	-11.07/-4.08	-6.44/-9.4	-4.39/-2.03	-1.48/-2.96	-1.68/-1.49	-2.28/-0.34	0.43/-0.19	-1.13/-0.21	0.41/-0.67	-2.87/-5.74	-9.41/-8.46	-4.45/-4.39
Θ (105°)	-4.45/-3.9	-3.97/-3.56	-5.42/-5.79	-6.71/-10.96	-9.76/-16.16	-18.7/-16.33	-15.8/-12.1	-5.47/-5.67	-6.58/-10.88	-13.9/-12.98	-7.46/-12.03	-10.4/-7.96	-17.87/-7.5	-5.61/-7.51	-5.85/-4.77	-4.83/-2.32	-2.770/-3.4	1.51/-0.33	-0.41/-0.14	1.43/-0.15	-0.08/-5.87	-8.6/-6.12	-3.74/-9.3	
Θ (112.5°)	-3.38/-3.78	-4.84/-6.39	-8.46/-6.76	-4.79/-7.46	-10.79/-12.24	-13.22/-19.03	-7.99/-6.5	-7.09/-6.48	-10.09/-16.29	-14.02/-13.64	-12.65/-15.17	-18.67/-18.17	-17.48/-17.59	-14.4/-14.57	-11.79/-5.57	-6.87/-5.65	-8.07/-8.08	-4.19/-0.65	0.56/-1.77	-2.01/-0.24	0.69/-0.18	-4.86/-6.86	-10.81/-4.18	-1.45/-2.03
Θ (120°)	-5.37/-5.09	-3.48/-3.98	-4.62/-4.64	-6.43/-5.79	-5.73/-6.27	-8.59/-9.01	-11.21/-6.09	-3.03/-3.89	-4.42/-4.64	-7.26/-10.88	-18.08/-17.27	-18.84/-17.82	-15.47/-11.78	-12.41/-13.04	-1.44/-3.56	-2.9/-2.2	-2.78/-2.95	-4.62/-9.66	1.22/-1.48	-3.58/-8.46	-1.94/-5.06	-1.94/-5.06	-1.94/-5.06	-1.94/-5.06
Θ (127.5°)	-4.45/-5.05	-4.14/-8.35	-10.68/-6.5	-5.25/-4.1	-3.27/-3.84	-4.37/-8.88	-9.88/-5.68	-2.06/-4.39	-5.63/-7.2	-10.41/-14.61	-15.27/-10.62	-5.42/-5.03	-11.58/-15.67	-11.96/-12.75	-1.97/-1.01	-4.44/-3.37	-3.184/-9.8	0.31/-1.48	-4.92/-4.27	-0.31/-1.48	-4.92/-4.27	-0.31/-1.48	-4.92/-4.27	-0.31/-1.48
Θ (135°)	-4.72/-9.43	-5.64/-6.06	-7.99/-7.18	-3.88/-3.1	-2.57/-2.86	-6.16/-10.85	-15.27/-13.71	-8.09/-7.79	-6.73/-4.6	-4.69/-7.09	-8.55/-8.93	-11.16/-12.79	-9.3/-8.94	-15.18/-18.57	-13.28/-17.72	-10.1/-8.36	-11.11/-8.71	-7.24/-3.9	-6.01/-4.46	-8.37/-10.36	-6.97/-0.89	-4.14/-6.18	-6.28/-7.7	-1.93/-0.73
Θ (142.5°)	-4.86/-12.38	-17.86/-10.16	-4.51/-2.39	-1.0/-5.6	-1.67/-2.7	-3.89/-7.4	-14.7/-18.12	-11.27/-7.09	-6.59/-6.68	-7.09/-10.57	-15.32/-18.1	-17.66/-13.73	-10.84/-10.53	-12.02/-16.77	-14.67/-9.09	-7.25/-18.97	-7.23/-8.86	-14.7/-9.79	-9.77/-9.08	-13.79/-6.24	-9.32/-5.67	-7.66/-14.27	-10.77/-6.11	-3.52/-2.52
Θ (150°)	-5.03/-9.58	-15.87/-19.31	-14.55/-9.45	-6.46/-5.36	-5.36/-6.91	-9.64/-11.06	-11.34/-11.06	-14.22/-15.03	-18.25/-18.69	-15.37/-13.43	-16.43/-18.52	-16.99/-11.49	-10.08/-10.46	-12.69/-17.17	-15.41/-17.77	-8.79/-6.81	-6.78/-6.13	-8.9/-6.46	-16.34/-8.48	-6.76/-6.28	-6.76/-6.28	-6.76/-6.28	-6.76/-6.28	-6.76/-6.28
Θ (157.5°)	-5.94/-4.93	-3.94/-3.76	-4.54/-4.42	-7.23/-7.3	-7.77/-8.4	-9.55/-11.28	-12.08/-12.38	-11.99/-11.94	-12.84/-14.5	-15.04/-14.66	-15.43/-13.85	-15.36/-14.82	-16.61/-19.11	-18.34/-17.88	-18.19/-18.42	-13.41/-9.27	-7.53/-7.07	-6.93/-7.77	-10.19/-13.7	-11.92/-10.89	-11.27/-11.74	-11.85/-9.84	-6.93/-6.46	-6.86/-5.96
Θ (165°)	-9.06/-10.35	-11.59/-10.88	-8.78/-6.93	-7.02/-8.28	-9.22/-9.09	-8.8/-9.5	-9.55/-9.18	-9.77/-10.93	-12.33/-12.8	-10.68/-9.86	-8.26/-8.25	-8.5/-9.15	-9.9/-10.23	-9.83/-9.84	-10.88/-12.48	-12.3/-10.29	-8.4/-8.77	-8.83/-10.54	-13.6/-17.07	-16.41/-13.5	-10.92/-8.12	-6.39/-6.09	-5.67/-5.06	-5.53/-7.05
Θ (172.5°)	-11.88/-8.76	-6.67/-5.39	-4.8/-4.96	-6.95/-9.68	-11.42/-11.1	-10.11/-9.79	-8.83/-7.8	-7.75/-8.3	-9.25/-9.74	-9.09/-8.52	-8.12/-7.65	-7.37/-7.53	-18.19/-8.94	-9.51/-10	-10.26/-10.38	-10.79/-11.7	-12.82/-15.11	-18.53/-18.37	-14.5/-11.88	-10.28/-9.42	-9.03/-9.07	-9.34/-10.75	-13.22/-16	-18.5/-15.78
Θ (180°)	-10.96/-12.81	-16.23/-18.77	-18.96/-13.09	-9.67/-8.27	-8.17/-8.57	-9.4/-10.21	-10.57/-10.67	-11.88/-13.78	-15.92/-18.03	-18.06/-18.79	-18.77/-19.12	-18.95/-18.85	-18.07/-17.44	-16.86/-15.99	-15.05/-14.21	-13.67/-13.5	-13.55/-15.39	-18.49/-18.44	-17.96/-18.27	-14.87/-12.81	-11.45/-9.87	-9.7/-9.93	-6.85/-7.46	-8.31/-9.83
Freq(Hz)	5.785GPol.	Phi/Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ (0°)	-12.79/-18.58	-18.91/-18.98	-17.18/-14.23	-11.68/-10.12	-8.76/-7.09	-6.62/-6.33	-6.22/-9.95	-5.56/-5.46	-5.51/-5.83	-6.23/-6.55	-7.19/-7.79	-8.48/-10.04	-12.91/-16.5	-18.83/-17.9	-18.94/-14.55	-12.01/-10.46	-8.63/-6.79	-5.5/-5	-4.75/-4.72	-4.82/-5.03	-5.65/-6.17	-6.35/-6.43	-6.71/-6.67	-9.18/-11.52
Θ (7.5°)	-8.92/-10.04	-13.68/-17.04	-18.54/-18.2	-15.55/-12.01	-9.92/-7.42	-6.57/-5.65																		



Radiated Composite Gain Data

Appendix A

Θ(75°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(15°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(22.5°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(30°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(37.5°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(45°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(52.5°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(60°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(67.5°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(75°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(82.5°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(90°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(97.5°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(105°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(112.5°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(120°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(127.5°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(135°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(142.5°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(150°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(157.5°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(165°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(172.5°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Θ(180°)	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf	-inf/-inf
Freq(Hz)	5.2GPol.	PhiAnt. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)*Φ(75°)	Φ(15°)*Φ(22.5°)	Φ(30°)*Φ(37.5°)	Φ(45°)*Φ(52.5°)	Φ(60°)*Φ(67.5°)	Φ(75°)*Φ(82.5°)	Φ(90°)*Φ(97.5°)	Φ(105°)*Φ(112.5°)	Φ(120°)*Φ(127.5°)	Φ(135°)*Φ(142.5°)	Φ(150°)*Φ(157.5°)	Φ(165°)*Φ(172.5°)	Φ(180°)*Φ(187.5°)	Φ(195°)*Φ(202.5°)	Φ(210°)*Φ(217.5°)	Φ(225°)*Φ(232.5°)	Φ(240°)*Φ(247.5°)	Φ(255°)*Φ(262.5°)	Φ(270°)*Φ(277.5°)	Φ(285°)*Φ(292.5°)	Φ(300°)*Φ(307.5°)	Φ(315°)*Φ(322.5°)	Φ(330°)*Φ(337.5°)	Φ(345°)*Φ(352.5°)
Θ(0°)	1.47/1.67	1.34/0.95	0.58/0.13	-1.01/-2.12	-3.36/-4.91	-6.98/-10.1	-15.32/-17.87	-12.7/-7.9	-4.71/-2.79	-1.29/-0.18	0.59/0.09	1.42/1.73	2.03/2.07	1.76/1.13	0.24/-0.65	-1.66/-3.06	-5.41/-8.35	-12.96/-18.24	-18.46/-12.87	-8.43/-5.58	-3.94/-2.78	-1.7/-0.91	-0.12/0.33	0.32/0.9
Θ(7.5°)	1.75/-1.49	0.84/-0.09	-1.21/-2.56	-4.42/-6.24	-8.47/-10.89	-13.67/-17.27	-18.69/-17.86	-15/-10.38	-7.67/-5.86	-3.91/-2.59	-1.88/-1.6	-1.42/-1.11	-0.71/-0.3	-0.13/-0.45	-1.18/-1.9	-2.49/-3.38	-4.66/-6.46	-9.74/-15.64	-18.58/-11.72	-6.98/-4.22	-2.24/-0.79	0.17/0.89	1.54/-2.1	1.85/-1.79
Θ(15°)	3.34/-59	1.67/0.44	-1.33/-3.37	-6.14/-9.33	-14.01/-18.04	-18.53/-18.77	-17.5/-16.05	-13.12/-10	-7.56/-5.86	-4.7/-4	-3.79/-4.3	-4.89/-5.09	-4.58/-3.75	-2.94/-2.79	-3.08/-3.76	-4.59/-5.3	-6.18/-7.75	-10.6/-15.37	-17.93/-13.34	-8.59/-5.72	0.08/1.29	2.44/-3.38	3.48/-4.6	
Θ(22.5°)	1.74/0.8	-0.16/-1.33	-2.72/-4.22	-5.95/-7.95	-10.67/-14.54	-18.22/-18.03	-18.95/-17.57	-12.97/-9.56	-6.85/-5.24	-4.43/-3.88	-3.52/-3.47	-3.37/-3.01	-2.33/-1.87	-2.07/-2.51	-3.14/-3.89	-4.3/-4.74	-5.58/-7.09	-10.07/-15.67	-18.34/-18.35	-11.4/-7	-3.79/-1.29	0.150/-77	1.17/-1.77	1.93/-2.1
Θ(30°)	-17.41/-17.08	-15.69/-18.62	-18.98/-18.08	-18.87/-18.55	-18.97/-18.96	-16.77/-13.84	-12.89/-9.63	-7.6/-6.49	-6.07/-6.9	-7.08/-5.5	-3.92/-3.13	-2.94/-2.48	-1.97/-2.12	-3.02/-4.04	-5.01/-5.88	-6.33/-6.17	-5.51/-5.78	-7.7/-10.8	-16.52/-18.59	-12.03/-6.5	-7.07/-6.35	-6.58/-8.53	-11.87/-15.92	-17.32/-19.32
Θ(37.5°)	-18.49/-13.38	-12.32/-16.32	-18.55/-16.05	-16.68/-17.46	-15.68/-16.53	-19.43/-12.67	-7.87/-5.84	-5.75/-6.43	-7.7/-8.63	-8.28/-5.98	-4.4/-4.69	-5.98/-6.17	-16.49/-14.73	-6.05/-7.59	-9.07/-11.78	-18.34/-17.9	-16.49/-15.26	-18.27/-17.58	-18.06/-16.22	-15.58/-17.82	-15.92/-12.31	-12.83/-18.81		
Θ(45°)	-8/-10.01	-8.85/-6.52	-5.27/-6.56	-9.74/-12.29	-12.12/-11.91	-13.23/-11.06	-6.58/-4.64	-4.46/-4.56	-3.42/-2.72	-3.31/-4.02	-4.64/-7.5	-14.53/-17.87	-13.34/-9.03	-7.88/-9.4	-11.27/-13.5	-18.33/-18.86	-18.01/-18.47	-18.63/-16.77	-15.01/-16.94	-18.64/-17.11	-14.27/-10.98	-7.63/-5.46	-5.53/-6.88	-7.67/-5.96
Θ(52.5°)	-18.39/-15.72	-17.93/-12.47	-9.73/-10.78	-10.51/-9.69	-10.56/-13.02	-13.83/-9.32	-5.63/-3.4	-3.34/-3.84	-2.32/-1.13	-1.41/-2.02	-2.12/-2.78	-4.86/-7.6	-9.74/-9.77	-10.01/-10.63	-7.6/-6.17	-7.75/-8.07	-6.49/-7.3	-8.91/-13.7	-17.75/-18.69	-19.48/-13.17	-10.5/-12.01	-13.12/-12.34	-12.44/-12.92	-12.42/-13.52
Θ(60°)	-1.64/-1.82	-3.2/-3.93	-4.95/-7.21	-9.59/-15.51	-9.22/-5.39	-5.9/-7.52	-6.81/-4.95	-3.34/-3.74	-3.94/-4.74	-7.44/-7.5	-4.13/-1.93	-0.88/-0.9	-1.56/-2.03	-2.95/-5.32	-7.14/-7.4	-8.46/-6.69	-4.75/-3.86	-4.27/-7.97	-17.38/-18.69	-13.62/-9.63	-9.98/-9.1	-12.47/-17.88	-15.44/-7.24	-2.83/-2.11
Θ(67.5°)	-5.91/-6.56	-6.08/-4.37	-4.06/-3.95	-3.61/-6.36	-11.91/-14.58	-9.8/-9.26	-4.85/-2.75	-2.51/-3.01	-4.62/-4.97	-5.04/-3.93	-2.58/-2.64	-2.9/-3.57	-3.9/-3.69	-4.76/-7.66	-8.71/-9.55	-9.39/-6.51	-5.86/-5.67	-6.76/-9.77	-10.03/-7.76	-6.59/-8.27	-15.49/-18.66	-14.36/-10.81	-9.99/-9.43	-6.35/-5.11
Θ(75°)	-6.05/-7.49	-6.78/-3.48	-2.2/-0.86	-2.54/-8.89	-18.08/-12.43	-7.26/-6.71	-8.24/-6.28	-2.15/-2.18	-3.77/-3.59	-3.67/-2.14	-0.82/-0.29	-0.63/-1.96	-3.29/-3.65	-4.55/-6.07	-4.44/-5.54	-4.81/-4.29	-4.72/-6.93	-6.56/-9.47	-7.25/-7.23	-3.67/-6.21	-18.19/-15.64	-10.42/-8.86	-9.62/-10.41	-10.98/-8.24
Θ(82.5°)	-18.04/-17.69	-18.28/-13.31	-6.42/-4.26	-1.01/-1.63	-6.52/-11.12	-10.37/-10.99	-7.62/-4.29	-2.61/-2.29	-4.14/-7.85	-4.64/-1.61	-0.46/0.26	0.65/0.27	-0.26/0.32	-0.15/0.25	-0.86/-5.14	-6.41/-4.72	-4.2/-6.92	-10.6/-9.99	-7.7/-5.04	-2.75/-8.35	-16.39/-9.22	-6.43/-7.66	-8.66/-7.94	-9.82/-14.54
Θ(90°)	-10.66/-12.19	9.34/-6.99	-4.98/-2.85	-1.62/-1.31	-4.13/-13.66	-18.42/-11.86	-7.87/-6.23	-3.91/-2.69	-3.65/-4.73	-3.36/-1.37	-1.35/-0.48	0.48/0.89	0.75/-0.61	-0.39/-0.01	-1.79/-2.73	-3.87/-2.66	-2.74/-4.97	-6.42/-7.21	-12.95/-9.95	-4.72/-7.89	-14.59/-11.48	-14.94/-17.48	-16.02/-9.76	-8.28/-8.19
Θ(97.5°)	2.67/-1.47	-0.52/-4.62	-13.44/-2.56	-0.48/-2.22	-4.57/-6.02	-12.79/-18.15	-9.56/-6.95	-5.22/-6.21	-2.84/-2.38	-0.72/0.12	1.07/-0.33	-1.37/-1.25	-1.25/-1.02	-1.09/-3.32	-5.57/-8.19	-3.4/-0.35	-0.05/-1.94	-4.31/-7.06	-11.54/-14.59	-10.8/-15.24	-10.47/-10.37	-11.95/-10.61	-4.02/-1.94	1.17/-2.51
Θ(105°)	0.96/-1.91	-1.92/-4.43	-18.81/-1.26	-6.03/-4.19	-5.25/-7.94	-13.16/-17.06	-9.77/-7.74	-6.78/-4.74	-2.36/-1.27	0.46/0.37	0.08/0.68	0.14/-1.82	-2.25/-2.31	-3.21/-0.08	-0.6/-5.51	-6.41/-4.29	-2.71/-1.98	-2.11/-1.98	-8.11/-18.71	-11.1/-15.5	-12.12/-17.28	-3.72/-1.1	-0.02/-6.7	
Θ(112.5°)	-0.72/-4.89	9.1/-10.32	-11.63/-8.65	-4.48/-2.24	-3.5/-10.02	-17.94/-17.13	-13.42/-11.8	-5.3/-3.74	-2.87/-1.85	0.71/1.89	1.21/56	1.17/0.66	1.50/71	1.893/68	1.72/-1.85	-12.12/-3.96	-1.23/-0.3	-2.5/-4.87	-14.08/-15.71	-14.37/-7.69	-13.36/-11.11	-2.79/-0.49	0.87/0.54	-0.57/-0.75
Θ(120°)	1.77/-1.1	-6.58/-10.41	9.29/-3.73	-2.03/-2.41	-3.48/-5.85	-12/-15.72	-7.05/-6.67	-6.62/-4.29	-0.48/0.43	-0.22/0.58	-0.87/0.92	2.46/1.77	1.91/66	1.16/-2.08	-7.82/-9.39	-0.39/-0.66	-2.32/-4.09	-9.11/-9.69	-8.25/-17.92	-8.82/-17.7	-6.16/-3.82	-2.91/-2.35	-0.61/-3.1	
Θ(127.5°)	3.76/-2.49	1.56/0.28	-3.03/-4.95	-7.09/-9.61	-10.18/-11.48	-16.41/-14.55	-18.92/-18.81	-15.12/-11.36	-7.15/-1.39	1.38/2.26	3.23/3.18	2.74/0.31	2.693/39	5.014/71	1.79/-1.89	1.16/1.67	1.77/-2.46	-8.08/-12.07	-14.34/-16.62	-17.53/-7.51	-7.01/-18.25	-15.12/-17.28	-3.72/-1.1	-0.02/-6.7
Θ(135°)	0.41/-0.81	-2.73/-6.18	-12.92/-6.26	-4.85/-3.37	-3.34/-5.47	-11.36/-19.26	-18.24/-12.33	-9.21/-7.66	-6.89/-6.68	-3.78/-0.72	0.17/-0.08	-0.34/-1.57	-3.49/-3.78	-3.46/-5.05	-2.03/0.32	-0.61/0.53	1.15/-0.25	-1						



Radiated Composite Gain Data

Appendix A

Θ(52°)	-19.44/-19.38	-18.51/-18.86	-19.54/-17.55	-17.74/-12	-6.21/-5.38	-5.57/-5.87	-6.01/-6.07	-6.9/-7.45	-6.74/-6.54	-9.92/-13.99	-14.97/-18.87	-19.24/-18.41	-15.47/-13.2	-14.76/-13.34	-12.4/-13.51	-15.57/-14.6	-13.44/-11.52	-10.52/-8.34	-8.16/-8.44	-9.39/-12.89	-17.33/-14.34	-14.09/-13.1	-10.21/-8.75	-9.67/-14.76
Θ(60°)	-16.31/-16.97	-14.36/-13.11	-13.04/-12.77	-17.8/-17.52	-11.98/-12.66	-10.38/-8.42	-7.49/-6.61	-6.06/-7.24	-9.51/-10.03	-16.29/-17.42	-15.63/-9.97	-10.34/-9.17	-6.68/-12.61	-16.77/-14.18	-13.95/-11.78	-11.92/-11.25	-12.35/-11.92	-15.16/-9.28	-7.07/-6.86	-4.5/-3.48	-4.6/-4.44	-8.15/-10.4	-14.57/-12.95	-13.04/-15.74
Θ(72.5°)	-10.98/-12.14	-12.4/-17.39	-16.63/-12.69	-14.59/-18.5	-19.06/-17.56	-11.61/-11.2	-16.52/-18.04	-18.2/-15.63	-14.99/-14.31	-15.73/-16.93	-13.91/-10.15	-10.88/-11.9	-6.87/-12.72	-9.34/-8.11	-10.97/-12.77	-14.91/-18.77	-16.26/-13.78	-18.03/-14.26	-16.68/-13.62	-8.53/-8.32	-6.41/-6.18	-14.49/-19.04	-18.57/-14.71	-12.53/-9.96
Θ(75°)	-9.12/-10.65	-10.59/-13.8	-18.56/-18.52	-17.94/-13.36	-11.75/-15.56	-15.93/-13.89	-14.99/-19.13	-14.68/-10.13	-12.74/-18.54	-17.94/-11.66	-9.83/-7.3	-9.44/-6.62	-8.58/-12.13	-10.68/-9.47	-16.59/-17.06	-18.97/-19.02	-19.26/-15.31	-14.98/-14.47	-17.83/-18.35	-12.92/-10.8	-13.95/-15.81	-12.81/-12.64	-15.54/-14.55	-11.24/-8.75
Θ(82.5°)	-8.16/-6.4	-7.97/-8.78	-11.15/-14.51	-14.71/-14.16	-13.14/-13.44	-14.91/-15.6	-16.73/-17.45	-11.09/-9.75	-13.61/-18	-15.83/-8.19	-6.8/-6.13	-6.74/-7.78	-10.76/-11.92	-11.56/-11.15	-16.33/-13.78	-15.78/-15.83	-11.64/-11.84	-13.76/-9.42	-5.9/-5.73	-6.24/-7.29	-12.14/-19.18	-18.05/-16.18	-12.75/-13.45	-16/-13.46
Θ(90°)	-17.21/-16.27	-17.43/-12.97	-14.47/-18.01	-19.31/-14.19	-11.35/-12.24	-15.55/-18.22	-16.81/-9	-6.25/-6.07	-7.91/-13.36	-19.13/-10.68	-7.85/-7.25	-7.94/-10	-14.6/-12.01	-14.27/-17.61	-18.71/-18.84	-18.19/-18.68	-17.67/-13.87	-12.8/-18.61	-19.3/-9.89	-3.3/-4.66	-8.67/-6.63	-7.36/-12.06	-12.59/-12.03	-14.33/-15.16
Θ(97.5°)	-15.17/-18.06	-17.78/-12.31	-15.41/-18.69	-13.82/-14.84	-11.21/-12.81	-17.23/-13.57	-11.28/-9.77	-7.5/-5.82	-4.63/-7.04	-12.55/-17.02	-14.39/-10.48	-8.01/-8.12	-9.38/-7.93	-9.44/-16.08	-14.15/-17.78	-11.11/-12.24	-15.19/-12.59	-9.47/-8.74	-12.01/-11.19	-3.2/-5.75	-17.15/-13.43	-5.92/-5.65	-8.71/-7.3	-6.19/-8.37
Θ(105°)	-9.86/-17.59	-18.16/-13.05	-17.81/-18.31	-15.18/-11.26	-8.06/-12.66	-17.8/-11.63	-7.43/-4.47	-1.52/-0.83	-2.28/-3.52	-4.8/-8.37	-10.9/-11.86	-18.11/-19.1	-17.71/-13.78	-13.55/-12.89	-10.41/-10.01	-5.56/-8.13	-8.56/-10.9	-6.78/-7.31	-4.17/-6.27	-1.92/-4.04	-10.45/-9.19	-5.27/-4.79	-7.75/-10.45	-8.73/-6.41
Θ(112.5°)	-11.64/-11.42	-15.05/-10.27	-10.69/-8.34	-6.11/-7.57	-15.68/-19.29	-19.34/-18.56	-9.91/-5.02	-3.43/-1.42	-0.84/-1.53	-2.38/-5.61	-9.41/-10.3	-12.76/-14.27	-18.06/-18.3	-13.65/-6.37	-5.96/-7.07	-7.47/-9.89	-13.19/-7.38	-6.67/-1.42	-4.13/-4.93	-1.09/-5.84	-17.61/-9.06	-1.53/-6.12	-14.25/-12.72	-17.4/-13.27
Θ(120°)	-18.88/-14.09	-14.86/-19.1	-13.29/-7.91	-5.46/-8.71	-15.01/-11.91	-13.91/-13.51	-11.13/-4.24	-2.31/-2.52	-2.37/-2.42	-2.93/-3.25	-4.87/-8.96	-14.26/-18.09	-19.34/-18.07	-19.55/-10.7	-8.73/-6	-13.08/-10.49	-19.14/-5.25	-3.37/-0.78	-4.45/-5.52	-0.56/-2.26	-10.77/-13.37	-0.45/-2.62	-11.63/-7.75	-13.33/-18.54
Θ(127.5°)	-18.26/-15.15	-10.14/-7.3	-7.67/-10.06	-11.42/-12.84	-12.64/-6.54	-5.51/-4.68	-7.04/-12.98	-7.07/-4.53	-2.96/-1.31	-1.92/-3.81	-5.68/-8.01	-10.51/-14.21	-13.17/-13.04	-10.36/-7.19	-6.05/-9.01	-10.39/-12.5	-4.32/-2.2	-2.77/-6.39	-8.25/-6.6	-0.29/-0.21	-7.31/-18.74	-8.21/-6.3	-11.71/-7.26	-6.53/-12.9
Θ(135°)	-15.31/-9.48	-10.35/-13.69	-19.21/-10.18	-16.05/-8.76	-4.67/-3.51	-5.93/-8.16	-7.05/-7.01	-6.03/-3.26	-3.31/-5.45	-7.66/-8.54	-8.98/-10.31	-11.08/-11.78	-11.32/-11.39	-19.31/-11.7	-1.98/-8.17	-2.04/-2.08	-2.06/-3.51	-7.66/-6.93	-1.46/-9.21	-2.15/-0.96	-8.32/-9.62	-15.01/-13.27	-16.84/-18.9	
Θ(142.5°)	-18.59/-14.72	-11.58/-11.88	-11.1/-13.76	-19.03/-10.48	-5.76/-4.3	-5.02/-6.71	-7.36/-7.75	-13.09/-16.03	-8.72/-9.13	-8.61/-7.53	-6.75/-5.74	-5.76/-7.44	-9.95/-12.26	-13.59/-17.44	-13.56/-12.76	-17.42/-12.38	-8.7/-8.12	-4.45/-5.96	-12.69/-10.98	-3.34/-0.04	-0.54/-4.34	-8.26/-11.18	-13.42/-11	-11/-15.29
Θ(150°)	-16.61/-16.99	-17.68/-17.97	-15.03/-8.62	-5.62/-5.62	-7.54/-9.67	-9.95/-7.68	-5.69/-4.3	-3.6/-4.03	-4.41/-4.53	-5.53/-7.8	-9.04/-8.96	-10.12/-14.29	-19.82/-17.36	-16.98/-12.67	-10.34/-7.55	-4.32/-3.87	-5.37/-4.97	-3.12/-2.61	-3.25/-4.52	-5.28/-4.01	-3.36/-4.14	-9.48/-12.96	-15/-15.7	-17.93/-18.27
Θ(157.5°)	-18.6/-18.86	-16.48/-14.39	-10.82/-8.15	-7.68/-9.06	-10.24/-9.6	-9.81/-10.96	-12.77/-12.57	-9.56/-7.22	-5.71/-5.27	-5.17/-6.46	-9.93/-18.68	-18.96/-18.78	-15.8/-13.93	-11.64/-8.64	-5.49/-3.57	-2.91/-3.92	-5.62/-6.82	-6.72/-4.64	-3.2/-3.67	-5.98/-9.81	-10.18/-9.81	-9.38/-5.87	-7.64/-6.85	-8.33/-12.68
Θ(165°)	-18.95/-16.72	-11.7/-10.37	-11.85/-17.99	-18.48/-13.29	-9.68/-8.75	-9.84/-13.87	-18.54/-17.92	-11.18/-8.14	-6.63/-5.78	-5.22/-5.11	-5.97/-8.24	-11.82/-14.47	-10.5/-6.44	-4.14/-2.91	-2.89/-3.78	-5.23/-6.3	-6.09/-5.62	-5.52/-4.62	-2.89/-2.18	-3.44/-6.86	-14.37/-15.19	-7.73/-5.35	-5.27/-6.38	-8.97/-14.72
Θ(172.5°)	-12.82/-10.53	-17.76/-18.45	-18.85/-13.22	-10.77/-10.96	-11.57/-12.57	-14.27/-13.07	-11.26/-9.91	-8.73/-6.65	-8.6/-8.72	-9.49/-9.87	-10.42/-11.45	-13.04/-15.41	-16.34/-14.15	-13.43/-15.59	-18.99/-18.8	-14.55/-11.54	-10.11/-8.88	-9.96/-8.37	-5.73/-4.16	-4.47/-5.96	-7.35/-8.08	-7.53/-6.38	-6.67/-8	-9.13/-10.87
Θ(180°)	-11.63/-13.15	-13.99/-13.9	-13.92/-14.26	-17.6/-19.13	-18.59/-15.25	-12.37/-10.68	-9.49/-9.39	-9.71/-11.22	-14.95/-19.08	-18.09/-18.66	-19.19/-19.08	-18.96/-18.34	-16.92/-15.62	-16.07/-17.62	-19.42/-17.48	-15.59/-16.41	-17.54/-19.21	-19.39/-12.98	-9.56/-8.93	-9.87/-10.98	-11.28/-10.14	-8.68/-7.34	-7.02/-7.6	-8.79/-10.63
Freq(Hz)	5.6GPol.	PhiAnt. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-0.76/-0.2	-0.74/-1.03	-1.24/-2.73	-3.58/-4.52	-5.12/-6.13	-7.84/-10.75	-15.22/-17.98	-19.21/-11.98	-7.92/-5.15	-1.11/-0.53	-0.190/-0.7	-0.130/-0.38	0.173/-0.23	0.195/-0.25	-0.75/-1.75	-3.15/-5.09	-7.23/-9.76	-12.95/-18.56	-17.83/-19.13	-11.91/-8.2	-6.61/-5.17	-2.58/-2.13	-0.04/-3.21	-1.82/-4.18
Θ(7.5°)	2.091/-6	1.271/0.6	0.37/-1.15	-2.91/-4.63	-5.88/-7.35	-10.26/-14.81	-16.26/-12.28	-8.89/-6.47	-4.56/-3.21	-2.07/-1.17	-0.56/-0.2	-0.28/-0.53	-0.53/-0.28	-0.28/-0.66	-1.23/-2.03	-2.65/-3.4	-4.54/-5.94	-7.83/-10.04	-11.46/-10.98	-8.07/-5.25	-3.04/-1.33	-0.120/64	1.151/7.5	2.382/35
Θ(15°)	1.190/65	0.49/-0.07	-1.33/-3.16	-5.23/-6.62	-7.34/-9.16	-12.15/-16.12	-14.33/-9.97	-7.24/-5.25	-3.71/-2.69	-2.12/-1.21	-1.98/-2.32	-3.28/-4.22	-4.76/-4.78	-1.91/-3.79	-3.99/-4.49	-4.88/-5.16	-5.68/-5.88	-6.11/-9.59	-10.9/-9.06	-6.35/-3.84	-2.13/-0.71	0.180/51	0.480/55	1.41/-56
Θ(22.5°)	1.420/58	-0.66/-1.98	-3.15/-0.5	-8.42/-13.12	-17.36/-17.64	-13.93/-16.75	-11.52/-8.38	-6.89/-6.15	-5.84/-5.68	-6.21/-6.69	-7.94/-10.7	-12.71/-11.73	-9.06/-7.28	-7.09/-8.18	-10.19/-12.57	-12.14/-11.2	-11.01/-11.1	-10.61/-10.4	-10.9/-11.67	-12.55/-10.2	-4.27/-2.16	-0.590/29	8.020/87	1.73/-82
Θ(30°)	-4.88/-7.09	-10.24/-7.79	-5.56/-6.29	-9.21/-13.8	-18/-19.01	-17.72/-13.51	-11.45/-9.84	-8.78/-8.71	-9.25/-7.84	-5.88/-4.69	-4.5/-5.21	-5.84/-6.61	-6.96/-6.57	-5.86/-6.1	-7.95/-9.35	-11.16/-14.69	-18.54/-18.17	-18.02/-17.7	-15.59/-14.31	-12.78/-10.82	-8.11/-5.75	-4.43/-4.03	-3.43/-3.42	-2.86/-3.88
Θ(37.5°)	-15.57/-18.66	-16.73/-30.7	-7.59/-9.01	-9.33/-9.12	-13.32/-18.65	-13.34/-9.02	-7.09/-6.25	-6.29/-8.15	-4.10/-8.54	-6.46/-5.11	-3.79/-2.27	-0.86/-0.3	-0.78/-1.82	-2.19/-2.48	-2.81/-3.4	-4.79/-6.84	-11.54/-15.1	-13.27/-16.8	-18.03/-18.28	-15.01/-11.39	-10.56/-10.89	-10.85/-11.55	-13.86/-11.33	-10.75/-16.9
Θ(45°)	-9.81/-10.18	5.54/-3.91	-4/-5.5	-6.98/-8.69	-11.49/-15	-18.88/-10.77	-6.57/-6.16	-5.09/-5.09	-5.43/-5.71	-1.10/-0.87	-2.59/-1.48	-4.24/-2.39	-1.17/-0.87	-5.12/-2.44	-4.16/-7.24	-9.19/-9.45	-13.94/-15.07	-14.09/-19.32	-19.24/-15.45	-11.57/-9.06	-7.54/-8.04	-11.33/-16.41	-18.87/-14.98	-9.49/-9.74
Θ(52.5°)	-13.36/-15.21	-6.65/-3.75	-4.69/-3.38	-3.41/-5.17	-8.19/-13.76	-10.41/-6.33	-4.97/-6.52	-4.69/-4.77	-5.62/-5.05	-3.37/-2.57	-2.26/-1.48	-1.59/-3.14	-3.22/-2.36	-2.85/-4.19	-5.99/-8.86	-7.79/-6.69	-5.29/-5.14	-7.12/-9.83	-11.74/-11.1	-8.15/-5.99	-5.79/-7.35	-6.7/-6.88	-11.39/-15.11	-14.82/-18.05
Θ(60°)	0.19/-8.09	-4.41/-4.1	-6.13/-5.59	-7.3/-12.01	-10.33/-10.62	-8.19/-6.69	-4.37/-3.93	-4.5/-3.78	-3.89/-4.65	-3.26/-2.1	-1.55/-0.88	-0.4/-0.64	-0.630/-0.2	-0.07/-0.83	-2.11/-5.74	-8.23/-11.16	-14.12/-19.2	-7.12/-10.78	-11.7/-18.16	-9.96/-5.63	-5.32/-7.2	-14.43/-18.99	-17.07/-8.49	-4.67/-1.68
Θ(67.5°)	-0.74/-0.93	-2.71/-1.65	-3.29/-3.21	-4.5/-8.64	-13.81/-6.69	-8.57/-7.78	-5.52/-3.43	-3.46/-6.57	-6.78/-4.56	-2.08/-1.17	-1.38/-1.36	-1.63/-2.23	-2.03/-1.8	-2.73/-4.59	-6.71/-8.76	-7.78/-12.69	-14.26/-10.35	-7.33/-6.27	-9.14/-11.66	-10.26/-7.59	-8.54/-12.54	-13.59/-17.82	-12.87/-3.47	-1.81/-1.55
Θ(75°)	-18.32/-18.1	-18.07/-8.2	-3.74/-9.98	-3.76/-7.25	-11.41/-11.8	-8/-8	-4.26/-3.29	-4.14/-7.48	-6.56/-2.72	-1.99/-1.47	-1.23/-0.32	-0.53/-0.43	-0.22/-1.03	-2.95/-3.63	-4.42/-5.14	-6.16/-5.86	-5.85/-6.6	-8.25/-10.1	-11.38/-7.63	-5.18/-4.34	-11.46/-15.91	-9.33/-9.35	-11.47/-17.9	-17.93/-18.26
Θ(82.5°)	-17.39/-17.63	-16.62/-9.66	-3.51/-0.2	-0.85/-5.03	-18.65/-11.23	-10.26/-10.99	-8.13/-3.88	-4.86/-6.55	-7.84/-3.82	-2.99/-1.86	0.48/-6.6	1.40/-84	-0.17/-1.65	-2.57/-4.33	-5.84/-6.45	-9.47/-7.02	-3.54/-3.41	-5.47/-14.8	-12.19/-13.61	-4.1/-4.98	-13.06/-12.24	-7.61/-8.18	-9.84/-12.64	-17.91/-17.42
Θ(90°)	-2.67/-4.63	-12.99/-17.64	-6.23/-5.28	-5.02/-3.73	-5.71/-12.81	-15.3/-11.35	-8/-4.47	-4.94/-6.1	-5.43/-4.56	-5.75/-7.51	-2.62/-0.91	-0.3/-0.25	-1.46/-2.75	-3.41/-3.45	-2.75/-7.12	-19.21/-9.41	-4.61/-4.24	-5.26/-6.56	-5.73/-7.91	-9.58/-17.01	-10.07/-4.44	-4.65/-11.5	-12.79/-5.65	-5.11/-4.28
Θ(97.5°)	3.011/19	-2.52/-6.99	-10.46/-7.55	-4.35/-4.72	-3.77/-5.28	-1.86/-16.67	-7.84/-8.57	-5.89/-6.22	-4.21/-3.76	-5.57/-5.24	-3.58/-2.08	-2.2/-2.86	-2.17/-3.61	-7.47/-9.15	-5.01/-5.83	-9.46/-8.54	-4.67/-3.49	-4.45/-6.99	-8.57/-7.46					

[illegible]



Radiated Composite Gain Data

Appendix A

Θ (150°)	-8.19/-8.83	-10.32/-11.43	-11.37/-10.73	-9.53/-8.74	-8.55/-7.66	-6.81/-5.83	-5.15/-4.76	-4.89/-5.07	-5.27/-5.72	-6.69/-7.82	-8.99/-11.53	-16.21/-19.64	-17.94/-18	-17.84/-18.47	-18.62/-12.55	-9.65/-9.5	-13.36/-17.27	-17.29/-13.43	-13.73/-18.94	-18.95/-17.47	-17.83/-10.88	-10.31/-3.71	-13.91/-10.04	-7.92/-7.59
Θ (157.5°)	-7.88/-11.32	-17.25/-17.55	-16.96/-12.37	-11.23/-11.87	-13.01/-13.51	-12.28/-10.14	-8.57/-8.07	-7.89/-8.12	-9.29/-11.39	-12.87/-12.14	-10.23/-9.13	-9.37/-10.89	-12.71/-12.84	-11.32/-9.71	-9.21-9.42	-10.35/-11.84	-14.07/-11.92	-9.57-8.03	-9.03/-10.9	-10.23-8.78	-7.86/-6.03	-4.25/-3.72	-4.43/-5.1	-5.15/-6.02
Θ (165°)	-11.47/-10.63	-8.78/-7.08	-6.06/-6.16	-7.36/-9.93	-11.59/-14.24	-9.93/-7.65	-5.45/-5.25	-5.82/-6.22	-7.38/-9.05	-11.46/-13.73	-14.22/-12.98	-12.09/-11.12	-10.35/-9.39	-8.31/-7.68	-7.91/-9.36	-12.64/-16.67	-15.06/-11.93	-8.75/-8.16	-12.25/-12.05	-17.46/-18.93	-18.66/-16.52	-12.23/-9.59	-8.86/-9.69	-10.74/-11.25
Θ (172.5°)	-9.31/-9.56	-10.72/-12.24	-13.27/-13.23	-12.03/-10.43	-10.04/-10.63	-11.76/-13.07	-13.64/-13.78	-14.17/-14.54	-14.91/-15.48	-17.29/-18.43	-17.34/-18.24	-19.06/-16.58	-15.11/-14.01	-13.26/-13.58	-14.88/-15.94	-16.25/-15.38	-14.18/-13.89	-14.19/-15.56	-18.76/-19.14	-18.91/-14.22	-12.37/-12.02	-12.17/-11.69	-9.82/-8.41	-8.96/-9.99
Θ (180°)	-15.31/-16.82	-18.04/-18.41	-17.83/-15.45	-11.91/-10.25	-10.23/-11.51	-13.76/-17.98	-17.88/-17.38	-17.89/-17.56	-18.51/-18.94	-18.57/-17.95	-18.31/-18.77	-17.81/-16.46	-14.78/-13.33	-12.05/-11.39	-11.18/-11.18	-11.36/-11.53	-12.05/-13.05	-13.69/-14.61	-15.23/-14.97	-15.29/-16.3	-16.89/-17.21	-18.59/-18.99	-16.31/-13.85	-13.64/-14.42
Freq(Hz)	5.3GPol.	PhiAnt. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-2.98/-2.82	-3.43/-4.56	-5.25/-5.99	-7.32/-9.06	-11.06/-13.41	-15.64/-16.19	-14.13/-11.07	-8.81/-7.09	-5.79/-4.85	-4.13/-3.42	-2.89/-2.51	-2.22/-2	-1.98/-2.21	-2.77/-3.46	-4.23/-5.24	-6.62/-8.59	-11.47/-15.36	-18.99/-17.03	-13.12/-10.02	-7.98/-6.49	-5.45/-4.5	-3.69/-3.01	-2.33/-2.16	-2.11/-2.6
Θ (7.5°)	-0.65/-0.7	-1.14/-1.99	-3.12/-4.3	-5.4/-7.02	-8.72/-11.71	-16.19/-15.82	-12.92/-10.42	-8.14/-6.27	-4.79/-3.71	-2.96/-2.22	-1.61/-1.3	-1.14/-1.06	-1.17/-1.39	-1.85/-2.6	-3.52/-4.77	-6.71/-9.38	-12.67/-16.58	-18.2/-17.11	-14/-11.82	-9.77/-7.89	-6.11/-4.61	-3.33/-2.27	-1.45/-0.87	-0.5/-0.71
Θ (15°)	2.04/-15	1.71/0.86	-0.31/-1.5	-2.7/-4.3	-6.2/-9.26	-11.4/-11.52	-11.62/-10.15	-7.98/-6.61	-5.42/-4.75	-4.05/-3.32	-2.72/-2.3	-2.24/-2.3	-2.44/-2.68	-3.02/-3.38	-3.79/-4.55	-5.92/-7.67	-10.07/-13.16	-16.23/-16.57	-14.94/-13.5	-11.76/-9.29	-6.48/-4.13	-2.34/-1.02	-0.11/0.7	1.25/-1.65
Θ (22.5°)	1.46/-1.64	1.13/0.38	-0.47/-1.58	-2.59/-3.91	-5.47/-7.62	-8.82/-10.27	-11.98/-11.02	-10.11/-9.38	-8/-6.93	-5.93/-5.24	-4.52/-3.79	-3.33/-3.04	-2.92/-3.11	-3.75/-4.75	-5.96/-7.2	-8.05/-8.58	-9.46/-10.91	-13.09/-15.51	-17.47/-18	-17.53/-14.04	-9.46/-5.73	-3.18/-1.7	-0.87/0.08	0.71/-0.9
Θ (30°)	3.25/-3.13	2.64/-1.75	0.49/-0.75	-1.65/-2.55	-3.49/-4.64	-5.48/-7.07	-7.69/-7.06	-6.56/-6.35	-6.12/-5.67	-4.72/-4.22	-3.98/-3.38	-2.51/-1.63	-1.21/-1.23	-1.58/-1.9	-2.29/-3.07	-4.42/-6.29	-8.66/-10.42	-11.88/-13.31	-16.67/-18.05	-14.43/-9.03	-5.65/-2.94	-0.78/0.5	1.66/-2.36	2.97/-3.2
Θ (37.5°)	2.94/-2.98	2.51/-1.64	0.38/-1.13	-2.69/-4.06	-5.3/-6.48	-6.6/-6.7	-5.77/-4.65	-3.58/-2.65	-2.01/-1.51	-1.03/-0.94	-1.38/-1.81	-1.61/-1.81	-2.98/-4.94	-5.87/-4.86	-3.38/-2.96	-3.55/-5.27	-8.33/-11.8	-13.24/-12.45	-13.77/-18.73	-18.07/-10.53	-5.79/-2.52	-0.05/-1.7	2.54/-2.7	2.54/-2.69
Θ (45°)	2.42/-25	1.37/0.64	0.40/06	-0.8/-2.62	-5.14/-9.06	-11.26/-10.6	-8.44/-5.94	-3.5/-1.71	-0.75/-0.56	-0.5/-0.68	-1.33/-1.53	-0.54/0.01	-1.08/-3.23	-3.77/-8.32	-5.53/-7.19	-6.58/-6.07	-7.53/-10.76	-15.49/-15.46	-13.13/-13.68	-10.58/-6.28	-3.06/-0.78	0.41/-1.25	2.15/-2.86	2.89/-2.55
Θ (52.5°)	1.90/-0.84	0.96/-0.42	0.14/-0.26	-1.78/-4.54	-4.14/-10.77	-12.81/-12.41	-8.8/-5.04	-2.68/-1.62	-1.1/-0.62	-0.02/0.29	-0.4/-1.02	0.17/0.7	0.79/0.74	0.78/-0.87	-4.28/-7.26	-9.63/-11.2	-11.88/-13.31	-16.67/-18.05	-14.43/-9.03	-5.19/-2.89	-1.38/-0.65	-0.13/0.34	0.70/-0.25	2.97/-3.2
Θ (60°)	1.91/-1.94	2.04/-1.77	1.55/-1.26	-0.22/-3.06	-6.77/-11.24	-11.9/-9.38	-5.87/-3.04	-1.48/-0.63	-0.58/-0.86	-1.18/-0.8	-0.48/-0.32	-0.11/-1.04	-1.74/-1.41	-1.38/-1.97	-2.6/-4.73	-9.75/-14.65	-11.74/-9.99	-13.4/-19.17	-18.95/-12.73	-8.05/-6.22	-4.24/-2.65	-1.49/-0.3	0.27/-1.18	2.07/-2.07
Θ (67.5°)	1.01/-1.3	2.03/-1.72	0.53/-0.81	-2.38/-4.94	-7.63/-8.23	-8.3/-7.92	-6.45/-6.02	-3.45/-6.23	-2.41/-3.22	-3.47/-4.15	-5/-4.81	-4.66/-5.37	-4.25/-3.19	-3.11/-2.95	-2.63/-4.34	-5/-7.69	-11.09/-11.54	-11.23/-16.9	-18.76/-13.88	-14.57/-7.5	-6.72/-4.4	-3.44/-2.08	-0.78/-0.65	-0.16/-0.66
Θ (75°)	2.29/-1.14	1.93/-1.85	1.23/-0.04	-2.24/-4.23	-4.39/-4.24	-5.13/-6.44	-6.59/-4.76	-2.96/-1.58	-1.07/-1.44	-2.61/-3.43	-4.53/-6.25	-5.96/-4.96	-3.01/-2.02	-2.78/-3.4	-3.9/-4.36	-4.94/-7.23	-9.83/-9.41	-11.11/-17.77	-17.54/-17.38	-11.45/-17.51	-5.3/-4.15	-2.96/-2.58	-1.13/0.74	1.78/-2
Θ (82.5°)	0.71/0.89	0.03/-0.97	-1.65/-2.86	-4.23/-5.29	-5.85/-7.07	-8.81/-10.34	-11.34/-9.46	-6.15/-3.42	-1.75/-1.38	-2.01/-2.71	-2.91/-1.95	-2.05/-2.79	-1.74/-1.95	-3.54/-3.77	-3.2/-3.26	-6.14/-12.29	-18.18/-19.59	-18.05/-18.84	-18.22/-18.29	-17.03/-7.96	-4.63/-3.24	-2.89/-3.43	-2.58/-1.09	0.50/-81
Θ (90°)	-0.90/-0.31	-1.04/-2.63	-3.82/-4.94	-5.6/-7.63	-10.34/-12.9	-16.79/-15.74	-13.64/-9.67	-5.91/-3.22	-2.03/-1.71	-1.58/-1.25	-1.28/0.04	0.33/0.57	0.98/-0.74	-2.16/-3.2	-6.61/-10.9	-1.04/-12.9	-17.25/-13.92	-11.13/-19.59	-19.21/-18.52	-8.88/-97	-6.42/-5.15	-3.41/-2.74	-2.35/-1.31	-0.23/-0.36
Θ (97.5°)	0.18/-0.23	-0.15/-1	-1.02/-1.31	-2.36/-4.26	-1.22/-10.81	-7.88/-6.83	-6.28/-5.66	-5.17/-4.67	-5.53/-4.41	-1.71/0.73	1.26/-2.13	2.23/0.99	-1.87/-6.29	-8.93/-12.31	-11.36/-10.45	-16.92/-18.54	-9.51/-11.41	-17.77/-18.66	-11.13/-6.23	-6.3/-4.21	-5.23/-2.87	-2.67/-1.38	0.65/-0.04	
Θ (105°)	-3.04/-2.84	-1.68/-0.73	-0.02/-1.18	-2.99/-5.26	-8.96/-10.6	-8.82/-7.85	-7.62/-6.57	-6.19/-7.49	-8.88/-9.58	-6.97/-5.07	-3.34/-0.57	0.90/0.87	-0.19/-1.25	-2.19/-3.47	-8.29/-17.19	-18.91/-10.32	-14.52/-18.73	-10.08/-8.67	-11.3/-13.71	-12.98/-5.84	-6.39/-6.46	-7.64/-5.24	-2.23/-0.72	-1.73/-2.23
Θ (112.5°)	-2.54/-2.39	-2.49/-3.3	-3.17/-3.71	-7.26/-9.58	-8.82/-8.9	-10.16/-10.63	-9.22/-6.68	-8.45/-8.34	-6.52/-6.15	-5.57/-6.26	-7.05/-4.28	-2.93/-1.73	-0.61/-1.68	-6.25/-7.52	-6.77/-10.98	-18.39/-11.33	-7.31/-7.28	-10.81/-7.7	-9.49/-0.7	-11.8/-16	-6.31/-6.6	-8.16/-9.25	-8.06/-6.55	-3.89/-2.79
Θ (120°)	-2.12/-0.73	-0.49/-0.93	-2.78/-4.74	-5.42/-6.03	-5.03/-4.69	-6.97/-14.34	-18.16/-13.67	-8.75/-5.76	-4.15/-3.8	-5.57/-2.44	-6.8/-6.03	-5.04/-4.04	-2.5/-2.51	-2.1/-1.8	-4/-7.48	-14.45/-4.3	-1.91/-5.13	-11.89/-9.89	-12.64/-10.44	-9.93/-8.28	-5.12/-4.7	-3.63/-1.85	-1.52/-2.4	
Θ (127.5°)	0.08/-0.31	-1.19/-1.97	-2.57/-4.25	-5.95/-4.39	-2.88/-3.1	-4.39/-6.75	-11.08/-15.07	-9.16/-4.02	-1.89/-2.95	-5.38/-8.77	-12.76/-10.1	-10.62/-7.45	-8.72/-18.18	-11.63/-6.98	-7.74/-15.09	-7.94/-5.29	-4.84/-7.13	-14.84/-13.94	-18.78/-18.18	-12.88/-15.48	-10.71/-8.41	-8.92/-10.19	-6.28/-3.01	-0.34/0.64
Θ (135°)	-2.22/-1.74	-2.35/-4.16	-5.59/-4.01	-2.14/-2.06	-2.75/-3.73	-5.47/-9.6	-17.17/-17.93	-17.64/-6.81	-5.17/-3.96	-3.31/-4.3	-6.49/-8.92	-16.19/-7.35	-5.66/-6.72	-5.35/-5.93	-9.57/-16.45	-12.58/-8.21	-17.17/-10.83	-17.41/-17.41	-14.29/-15.25	-18.87/-16.72	-13.15/-10.02	-10.1/-16.6	-8.79/-3.96	-2.71/-2.84
Θ (142.5°)	-10.72/-10.18	-7.23/-4.78	-3.13/-2.17	-1.96/-1.65	-1.59/-2.74	-4.83/-6.2	-7.17/-9.63	-13.82/-13.24	-19.15/-9.93	-4.94/-6.49	-7.75/-7.35	-4.44/-1.81	-2.29/-5.09	-9.43/-12.02	-11.85/-14.97	-8.25/-6.4	-13.51/-8.88	-17.75/-8.34	-18.18/-6.58	-9.38/-9.36	-10.94/-8.96	-8.55/-6.78	-5.58/-6.54	-5.59/-7.49
Θ (150°)	-0.52/-1.57	-3.6/-5.46	-6.39/-6.75	-6.52/-5.8	-6.12/-7.27	-8.2/-8.7	-9.93/-11.88	-14.54/-15.57	-14.37/-12.65	-11.65/-10.47	-9.03/-7.71	-5.31/-2.39	-0.82/-0.82	-1.85/-2.84	-4.25/-6.83	-10.18/-12.85	-13.32/-12.59	-14.02/-16.42	-18.3/-18.19	-14.78/-10.37	-8.55/-6.75	-5.67/-5.85	-5.32/-3.67	-2.14/-0.85
Θ (157.5°)	0.33/0.38	-0.02/-0.56	-2.02/-4.63	-9.11/-16.19	-18.72/-18.56	-19.06/-19.2	-17.9/-18.17	-18.73/-17.61	-16.58/-15.94	-14.59/-11.9	-8.82/-5.79	-3.21/-1.46	-0.95/-1.72	-3.73/-7.47	-13.27/-18.65	-18.53/-18.17	-18.3/-12.82	-10.79/-11.7	-13.69/-16.35	-14.14/-10.77	-9.01/-8.04	-6.69/-5.33	-4.07/-2.52	-1.18/-0.17
Θ (165°)	1.89/-1.74	1.02/-0.43	-2.9/-5.79	-8.24/-10.32	-12.38/-14.34	-16.11/-17.41	-17.14/-16.42	-15.58/-14.85	-14.91/-15.3	-15.88/-16.21	-14.23/-14.01	-13.13/-12.56	-12.05/-11.7	-12.08/-14.16	-18.77/-18.78	-17.29/-14.04	-13.39/-14.65	-15.82/-13.99	-11.33/-9.37	-7.89/-6.77	-5.2/-5.37	-2.24/-0.9	0.37/-1.35	
Θ (172.5°)	-9.88/-9.03	-8.71/-8.69	-8.48/-8.56	-9.31/-10.6	-12.84/-15.52	-16.79/-15.69	-15.26/-14.77	-14.74/-15.23	-15.63/-16.02	-16.52/-15.95	-15.15/-15.37	-15.97/-17.57	-18.4/-18.92	-18.22/-15.28	-13.39/-12.55	-13.06/-14.49	-16.68/-17.75	-16.61/-15.27	-14.87/-15.51	-16.74/-19.31	-18.43/-19.03	-16.09/-14.29	-12.83/-10.97	
Θ (180°)	-11.26/-11.91	-13.31/-14.69	-16.24/-18.45	-17.51/-17.99	-18.09/-18.65	-15.64/-14.07	-13.37/-13.46	-14.15/-14.72	-15.46/-16.32	-18.23/-19.2	-18.06/-18.27	-19.18/-18.41	-17.95/-17.69	-18.67/-17.29	-19.05/-17.81	-19.1/-18.62	-18.96/-18.22	-18.6/-18.31	-18.83/-19.29	-19.2/-19.19	-18.41/-18.05	-18.52/-17.79	-15.3/-13.65	-12.43/-11.86
Freq(Hz)	5.3GPol.	ThetaAnt. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-1.78/-12.33	-9.32/-7.4	-6.15/-6.48	-3.64/-3.04	-2.41/-2.2	-2.28/-2.45	-2.7/-3.01	-3.44/-3.86	-4.34/-5.05	-5.81/-6														



Radiated Composite Gain Data

Appendix A

Θ(0°)	-2.16/2.54	-3.09/-3.36	-3.89/-4.49	-5.12/-6.1	-7.17/-8.74	-11.06/-14.57	-17.98/-17.34	-15.01/-12.12	-9.7/-7.82	-6.47/-5.34	-4.36/-3.59	-3.05/-2.49	-2.08/-1.92	-1.97/-2.2	-2.71/-3.54	-4.43/-5.8	-7.86/-10.18	-13.86/-17.25	-17.39/-17.41	-13.36/-9.71	-7.23/-5.43	-4.27/-3.72	-3.14/-2.68	-2.23/-2.13	
Θ(7.5°)	-2.4/-2.96	-3.78/-3.72	-4.1/-4.96	-5.96/-7.8	-9.85/-13.46	-18.71/-18.77	-18.62/-13.39	-10.07/-7.6	-5.87/-4.74	-3.91/-3.38	-3.02/-2.65	-2.24/-1.85	-1.55/-1.47	-1.54/-1.89	-2.53/-3.32	-4.31/-5.51	-7.12/-8.96	-11.6/-14.18	-17.89/-16.47	-13.13/-9.8	-7.69/-6.49	-5.61/-4.93	-4.2/-3.69	-3.08/-2.56	
Θ(15°)	-3.16/-3.73	-3.66/-3.43	-3.92/-4.18	-4.57/-5.29	-6.46/-9.04	-11.87/-15.98	-19.34/-16.18	-12.19/-9.94	-8.39/-7.53	-7.12/-6.93	-6.73/-6.3	-5.83/-5.74	-5.84/-6.16	-6.5/-6.62	-6.43/-6.17	-5.89/-6.15	-7.07/-8.6	-10.51/-11.05	-10.68/-9.2	-7.65/-6.24	-5.65/-5.17	-4.54/-3.92	-3.55/-3.26	-3.16/-2.98	
Θ(22.5°)	0.30/0.19	-0.44/-1.7	-2.95/-3.61	-4.42/-4.95	-5.7/-7.33	-8.68/-11.41	-14.71/-16.63	-13.65/-11.05	-8.91/-7.07	-5.58/-4.46	-3.34/-2.33	-1.74/-1.75	-2.13/-3.02	-4.29/-5.9	-7.59/-8.88	-9.57/-9.88	-9.34/-8.92	-8.63/-7.99	-8.09/-8.24	-7.6/-6.9	-6.48/-5.52	-4.25/-2.99	-1.63/-0.58	0.090/24	
Θ(30°)	2.12/2.03	1.06/-0.12	-1.23/-2.45	-3.73/-4.37	-4.96/-6.2	-6.96/-7.87	-8.12/-7.96	-7.3/-6.84	-6.27/-5.6	-4.62/-3.88	-3.52/-2.96	-2.37/-2.39	-3.35/-4.62	-5.46/-5.66	-6.05/-6.65	-7.12/-6.98	-6.7/-6.89	-7.31/-8.43	-8.93/-8.23	-7.81/-7.25	-6.11/-4.82	-3.13/-1.32	0.160/9.7	1.52/1.63	
Θ(37.5°)	3.03/2.51	1.45/-0.1	-1.9/-3.47	-4.23/-4.39	-4.69/-5.72	-5.85/-6.09	-6.65/-7.73	-8.22/-7.77	-6.68/-5.22	-4.52/-5.01	-5.95/-5.39	-3.8/-2.7	-2.3/-2.37	-2.37/-2.83	-4.61/-7.4	-9.32/-9.75	-10.2/-11.13	-10.45/-9.19	-9.1/-10.75	-10.7/-15.7	-6.21/-3.66	-1.96/-0.34	1.15/2.03	2.57/2.81	
Θ(45°)	3.52/2.83	1.18/-0.78	-1.47/-1.81	-3.13/-4.37	-4.72/-4.94	-3.93/-3.54	-4.02/-5.02	-5.79/-6.17	-6.09/-5.54	-4.79/-4.54	-4.72/-4.79	-3.2/-1.94	-2.28/-3.04	-2.94/-3.01	-4.3/-6.44	-7.97/-10.43	-10.96/-8.07	-6.71/-8.26	-9.26/-9.52	-9/-7.38	-5.54/-4.07	-2.93/-1.22	1.08/2.37	2.88/3.07	
Θ(52.5°)	4.16/3.42	2.08/0.73	-0.01/-1.19	-2.96/-3.83	-4.28/-5.29	-5.52/-5.99	-7/-7.77	-5.77/-3.42	-1.97/-1.54	-1.5/-0.93	-0.53/-0.23	0.28/-0.6	-2.51/-3.95	-5.24/-8.64	-12.82/-11.46	-9/-10.28	-12.01/-12.49	-11.95/-10.51	-11.96/-16.79	-14.99/-10.33	-6.11/-3.25	-1.41/-0.31	1.35/2.74	3.59/4.06	
Θ(60°)	0.54/0.79	0.52/-0.25	-0.96/-1.92	-2.32/-2.6	-4.32/-6.89	-7.81/-11.03	-13.6/-10.23	-7.08/-4.31	-2.97/-2.56	-1.9/-0.99	-0.53/-0.53	-0.6/-0.93	-1.43/-1.02	-1.24/-3.31	-6.3/-13.56	-18.48/-18.2	-15.61/-11.65	-8.6/-9.49	-12.71/-17.41	-14.78/-11.28	-7.39/-5.04	-3.64/-1.84	-0.93/0.01	0.81/0.78	
Θ(67.5°)	-0.54/-0.01	0.7/0.6	0.33/-0.52	-1.38/-2.52	-4.98/-10.01	-18.12/-19.26	-12.86/-7.79	-5.02/-4.58	-4.88/-5.17	-5.33/-4.45	-2.71/-2.26	-1.5/-0.59	-1.01/-1.22	-2.34/-4.98	-7.6/-10.88	-18.35/-12.03	-7.16/-4.93	-7.15/-9.56	-15.22/-10.9	-10.79/-11.25	-9.76/-5.66	-5.53/-4.36	-2.32/-1.74	-0.76/-0.03	
Θ(75°)	0.35/0.66	0.98/0.67	0.42/-0.04	-1.21/-2.84	-7.16/-17.12	-18.49/-18.15	-11.03/-6.07	-4.01/-4.4	-5.78/-6.91	-8.41/-9.69	-8.36/-7.43	-5/-4.4	-5.09/-4.27	-5.15/-7.97	-7.84/-8.37	-9.37/-9.91	-10.45/-8.38	-7.47/-12.73	-18.18/-15.05	-12.79/-12.76	-17.01/-18.88	-7.81/-5.09	-3.31/-2.4	-1.27/-0.35	
Θ(82.5°)	0.41/1.05	1/0.78	0.92/0.47	-0.94/-3.29	-5.34/-7.8	-10.95/-13.77	-9.84/-5.84	-3.64/-3.03	-2.3/-2.04	-2.85/-3.61	-4.34/-5.4	-4.84/-4.04	-1.96/-1.86	-2.79/-3.63	-6.02/-11.47	-13.85/-10.96	-7.2/-6.7	-10.38/-11.57	-18.48/-17.88	-18.55/-12.83	-14.25/-16.22	-8.79/-4.98	-2.48/-1.12	0.26/0.31	
Θ(90°)	2.32/2.5	2.28/1.46	0.55/-0.6	-2.08/-3.39	-5.28/-9.68	-14.52/-12.59	-11.69/-10.04	-6.62/-4.99	-3.15/-1.17	-1.22/-1.52	-2.82/-3.38	-3.5/-3.8	-2.66/-2.84	-5.14/-6.36	-7.85/-9.14	-18.03/-13.51	-9.82/-9.08	-9.56/-12.34	-18.31/-14.12	-9.86/-6.86	-6.9/-11.01	-7.55/-5.46	-3.17/-1.22	0.28/1.4	
Θ(97.5°)	-0.12/0.25	-0.72/-1.46	-1.51/-1.68	-2.21/-3.92	-7.53/-13.97	-17.01/-14.33	-14.39/-11.9	-7.35/-4.92	-2.29/-1.08	-0.71/-1.58	-2.62/-2.03	-2.08/-2.08	-1.53/-3.99	-5.19/-8.99	-17.43/-12.93	-12.72/-13.94	-9.59/-7.95	-7.4/-10.46	-14.53/-10.58	-3.99/-7.39	-15.1/-13.37	-7.44/-3.09	-2.01/-0.88	0.18/0.66	
Θ(105°)	1.49/1.52	1.59/1.48	1.39/1.02	-0.4/-3.1	-5.96/-8.08	-13.13/-18.59	-12.62/-10.84	-10.64/-10.84	-8.3/-5.29	-5.84/-6.14	-5.62/-3.38	-2.72/-2.34	-1.55/-2.67	-4.7/-5.99	-9.62/-15.18	-15.44/-11.28	-4.22/-0.95	-8.46/-2.16	-4.48/-5.96	-12.41/-9.24	-7.71/-7.92	-8.67/-13.72	-10.37/-5.24	-1.25/-1.32	3.05/3.08
Θ(112.5°)	1.31/1.18	1.26/1.85	1.87/0.48	-1.06/-4.11	-7.65/-11.78	-13.52/-12.76	-12.01/-17.11	-17.02/-17.51	-13.4/-8.19	-5.23/-4.08	-3.83/-2.17	-1.6/-1.49	-2.82/-5.65	-7.59/-13.21	-9.73/-5.48	-7.67/-9.38	-17.13/-10.74	-9.62/-4.44	-7.26/-6.02	-7.92/-4.18	-10.79/-13.66	-7.06/-2.73	0.21/1.13	1.59/1.87	
Θ(120°)	0.43/0.89	2.49/3.13	3.11/6.4	-1.51/-5.78	-10.07/-12.03	-18.81/-17.82	-17.83/-15.94	-18.55/-13.53	-9.27/-8.21	-6.71/-7.64	-6.87/-6.84	-5.55/-6.02	-5.95/-9.08	-15.89/-5.35	-5.57/-12.29	-16.77/-2.57	-10.24/-1.96	-4.48/-5.04	-11.01/-5.32	-7.33/-2.86	-4.85/-4.8	-4.92/-2.9	-2.34/-1.04	-1.07/0.01	
Θ(127.5°)	3.09/2.75	2.14/1.36	0.26/-0.62	-2.86/-5.51	-4.72/-3.66	-4.36/-9.12	-14.65/-14.9	-18.27/-9.27	-7.23/-5.56	-6.35/-6.11	-5.48/-4.85	-4.24/-7.18	-7.39/-5.43	-9.62/-15.18	-15.44/-11.28	-4.22/-0.95	-8.46/-2.16	-4.48/-5.96	-12.41/-9.24	-7.71/-7.92	-8.67/-13.72	-10.37/-5.24	-1.25/-1.32	3.05/3.08	
Θ(135°)	4.21/4.11	3.75/2.81	0.6/-3.19	-4.85/-3.39	-2.81/-3.59	-5.93/-10.25	-13.13/-16.16	-17.17/-14.2	-6.18/-4.56	-4.25/-3.44	-4.54/-5.68	-9.37/-17.95	-17.94/-14.59	-8.89/-12.7	-13.18/-6.87	-5.83/-9.7	-7.37/-8.07	-7.28/-10.5	-8.45/-16.79	-13.14/-9.2	-5.07/-7.43	-5.8/-6.33	-2.36/0.51	2.56/4.02	
Θ(142.5°)	-2.61/-2.17	-2.36/-2.74	-2.15/-0.88	-0.71/-1.53	-2/-3.41	-7.42/-11.81	-10.66/-10.41	-14.54/-16.75	-13.26/-11.65	-7.69/-7.03	-8.97/-9.5	-7.27/-2.9	-1.42/-2.52	-5.67/-11.13	-12.33/-8.58	-5.75/-3.85	-4.19/-9.34	-12.15/-12.9	-9.83/-11.8	-7.77/-13.55	-9.95/-5.4	-5.44/-4.16	-4.84/-3.14	-2.59/-3.01	
Θ(150°)	-8.84/-11.65	-13.31/-13.71	-13.76/-10.67	-6.31/-3.89	-4.03/-6.07	-8.6/-8.64	-8.95/-10.59	-13.48/-16.13	-18.86/-15.63	-10.39/-8.21	-6.33/-4.38	-2.89/-1.13	0.06/-0.23	-1.99/-3.56	-4.56/-7.97	-15.36/-16.39	-13.1/-9.71	-8.18/-9.82	-11.67/-8.99	-5.7/-5.9	-9.05/-9.39	-9.04/-8.62	-7.01/-6.21	-5.84/-6.46	
Θ(157.5°)	-0.03/-0.55	-1.29/-1.46	-1.37/-2.73	-5.73/-10.01	-13.56/-15.39	-16.76/-18.23	-19.33/-17.82	-17.26/-17.91	-18.48/-17.72	-18.52/-12.69	-7.02/-3.14	-0.62/0.97	1.38/0.6	-1.41/-4.53	-9.49/-18.42	-19.03/-19.04	-18.95/-16.71	-16.18/-18.17	-19.05/-14.45	-10.88/-8.84	-7.89/-7.05	-5.34/-3.6	-2/-0.5	0.23/0.25	
Θ(165°)	2.16/2.44	2.38/1.8	0.24/-2.13	-4.4/-6.35	-7.8/-9.34	-11.01/-12.64	-13.63/-14.56	-14.91/-15.29	-15.87/-17.92	-18.09/-18.66	-17.96/-17.78	-19.41/-15.69	-12.02/-9.75	-8.54/-7.64	-7.41/-8.2	-10.73/-13.3	-12.98/-10.21	-10.45/-12.69	-16.12/-16.02	-12.63/-10.26	-8.8/-7.37	-5.61/-3.63	-1.9/-0.5	0.71/1.63	
Θ(172.5°)	-6.48/-5.4	-5.28/-5.95	-6.9/-6.85	-7.11/-7.95	-9.07/-10.45	-12.15/-13.5	-13.98/-14.23	-13.69/-12.19	-10.99/-10.21	-9.56/-9.18	-8.96/-8.59	-8.51/-8.57	-8.65/-8.31	-7.54/-6.96	-6.82/-7.03	-9.32/-11	-13.08/-15.33	-16.09/-16.09	-15.98/-16.12	-14.87/-13.66	-13.56/-13	-12.43/-11.05	-9.45/-7.7		
Θ(180°)	-4.84/-4.49	-4.97/-5.23	-5.51/-5.79	-6.34/-6.93	-7.28/-7.77	-8.35/-8.96	-9.69/-10.87	-12.16/-13.44	-14.48/-15.41	-15.34/-15.27	-15/-14.81	-14.91/-15.47	-15.82/-15.84	-16.2/-17.07	-17.19/-17.18	-17.31/-17.73	-18.95/-18.04	-19.27/-17.77	-18.55/-19.21	-17.5/-18.14	-19.14/-17.95	-14.64/-12.31	-9.83/-7.61	-5.57/-4.86	
Freq(Hz)	5.785/GPol.	Theta/Ant. 4	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)	
Θ(0°)	-17.1/-15.41	-14.06/-12.78	-10.14/-7.74	-5.77/-4.28	-3.12/-2.47	-2.34/-2.39	-2.4/-2.17	-2.03/-2.1	-2.52/-3.1	-3.9/-4.98	-6.39/-8.14	-10.18/-12.72	-15.96/-17.64	-14.58/-11.19	-8.75/-6.63	-5.02/-3.76	-2.95/-2.34	-1.73/-1.28	-1.28/-1.55	-2.25/-3.08	-3.86/-4.83	-6.14/-7.22	-8.59/-10.34	-12.23/-16.07	
Θ(7.5°)	-13.33/-13.44	-12.61/-10.08	-7.92/-6.18	-4.71/-3.73	-2.87/-2.72	-2.73/-2.42	-1.99/-1.77	-2.01/-2.41	-3/-3.67	-4.69/-6.06	-7.69/-9.78	-12.81/-17.49	-17.89/-18.66	-15.33/-11.49	-8.75/-6.74	-4.97/-3.89	-3.12/-2.58	-2.08/-1.89	-1.9/-2.25	-2.89/-3.54	-4.31/-5.46	-6.67/-7.83	-8.99/-9.46	-10.96/-12.74	
Θ(15°)	-13.25/-13.82	-12.84/-10.84	-8.88/-6.67	-5.14/-3.77	-2.55/-2.31	-1.98/-1.33	-1.48/-2.42	-3.3/-4.35	-5.6/-7.46	-9.31/-11.08	-12.73/-14.79	-18.81/-17.78	-18.9/-15.62	-13.21/-12.21	-10.9/-9.44	-7.3/-5.52	-3.95/-2.82	-2.29/-2.26	-2.54/-3.39	-4.51/-5.47	-6.32/-7.17	-7.91/-8.9	-9.47/-9.64	-10.96/-12.03	
Θ(22.5°)	-13.55/-11.07	-8.99/-7.87	-6.18/-5.38	-4.97/-3.57	-2.55/-2.33	-1.65/-1.53	-2.8/-3.86	-4.43/-5.39	-7.38/-9.73	-12.46/-15.61	-17.46/-15.23	-13.31/-13.4	-14.78/-15.82	-13.38/-11	-10.26/-10.7	-10.88/-9.39	-6.87/-4.5	-3.14/-2.72	-2.87/-3.63	-4.61/-5.72	-6.58/-6.24	-5.67/-5.79	-6.43/-8.18	-10.63/-13.34	
Θ(30°)	-15.54/-11.53	-8.06/-6.14	-6.11/-7.08	-6.37/-4.07	-2.62/-2.66	-2.75/-3.08	-3.18/-2.55	-2.52/-3.05	-4.07/-4.71	-5.2/-6.31	-7.82/-8.75	-10.14/-12.3	-13.23/-12.97	-11.64/-9.75	-8.18/-7.62	-7.46/-8.19	-8.49/-7.59	-6.5/-5.58	-4.34/-2.76	-1.4/-1.16	-1.86/-2.83	-3.41/-4.48	-6.53/-9.76	-12.63/-16.39	
Θ(37.5°)	-11.38/-7.85	-5.23/-4.05	-3.92/-3.38	-2.33/-1.03	-0.55/-0.94	-1.01/-1.49	-2.16/-3.16	-3.51/-2.77	-2.1/-2.17	-3.1/-5.22	-6.19/-7.16	-9.57/-10.63	-10.56/-14.27	-19/-12.94	-8.8/-7.51	-7.84/-9.71	-11.45/-9.06	-4.86/-2.5	-2.67/-4.23	-4.12/-2.43	-1.49/-1.32	-1.41/-2.16	-3.76/-6.22	-11.4/-17.86	
Θ(45°)	-18.51/-10.33	-5.09/-3.2	-2.87/-2.32	-1.54/-1.35	-1.11/-0.18	0.45/-0.36	-2.27/-3.76	-3.56/-3.46	-4.63/-4.71	-4.29/-4.98	-5.64/-7.13	-9.17/-11.27	-15.01/-18.92	-18.75/-13.94	-8.48/-5.21	-5.02/-6.28	-6.42/-6.56	-6.98/-6.62	-4.8/-3.2	-2.18/-1.42	-0.8/-0.81	-1.24/-2.22	-4.33/-5.42	-8.28/-14.42	
Θ(52.5°)	-8.65/-8.53	-4.91/-2.67	-1.34/-0.26	-0.4/-0.75	-0.7/-1.09	-2.35/-3.98	-4.52/-3.65	-2.99/-3.51	-3.98/-3.82	-5.13															