



Antenna Pattern 6GHz UNII 5~UNII 8

Appendix D

Total Gain Data

Freq(Hz)	6.175GPol.	TotalAnt.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	3.99/3.87	4.40/4.42	4.29/4.28	3.99/3.84	3.81/3.65	3.73/3.61	3.54/3.52	3.63/3.62	3.68/3.72	3.76/3.82	3.85/3.87	3.98/4.03	4.40/4.29	4.31/4.31	4.27/4.09	3.80/3.59	3.41/3.32	3.22/3.07	2.86/2.93	3.10/3.09	3.09/3.91	2.79/3.16	3.75/3.95	4.19/4.40
Θ(7.5°)	4.21/4.63	4.46/4.43	4.17/3.98	3.85/3.92	3.71/3.33	3.12/2.92	2.59/2.59	2.35/2.37	2.31/2.33	2.39/2.47	2.80/2.92	3.51/3.80	4.24/4.41	4.52/4.43	4.41/4.30	4.13/4.03	4.07/4.18	4.11/3.88	3.76/3.94	3.94/3.68	3.38/3.76	3.32/3.44	3.54/3.84	4.33/2.46
Θ(15°)	2.59/2.24	3.22/3.34	3.17/2.93	2.75/2.79	2.58/2.17	2.04/1.81	1.74/1.49	1.23/1.06	1.03/0.84	0.64/0.62	0.88/1.46	2.14/2.73	3.34/3.86	4.25/4.38	4.37/4.26	4.23/4.23	4.36/4.40	4.28/3.93	3.88/3.89	4.04/3.99	3.79/3.32	3.11/3.13	3.03/3.12	3.51/3.40
Θ(22.5°)	-0.11/-0.47	-0.59/-0.69	-0.75/0.35	1.27/1.90	2.22/2.10	2.28/2.22	2.13/1.75	1.14/0.58	0.21/-0.34	-1.08/-1.26	-0.87/0.05	1.18/2.20	2.87/3.50	4.09/4.35	2.38/1.91	3.45/3.02	2.38/1.91	1.55/1.14	0.53/0.08	0.08/-0.06	-0.28/-0.89	-1.31/-1.43	-1.67/-1.07	-0.20/-39
Θ(30°)	-1.00/-1.93	-2.83/-2.14	-1.27/-0.37	-0.06/-0.62	-0.57/0.19	1.26/1.96	1.57/0.58	1.26/2.15	1.57/0.58	-0.21/-0.64	-2.50/-1.50	-1.20/-0.83	0.72/2.12	2.78/3.45	4.09/4.42	4.11/3.42	2.85/2.10	1.70/1.94	1.64/0.35	-0.60/-1.03	-1.10/-1.73	-2.68/2.95	-2.94/-3.21	-2.20/-1.16
Θ(37.5°)	-2.89/-3.98	-5.55/-4.42	-6.57/-9.07	-7.62/-5.33	-2.12/-0.25	0.87/2.08	2.80/2.34	2.12/1.26	0.56/0.77	1.79/2.14	2.23/0.51	0.15/0.64	1.16/1.91	2.17/1.69	1.14/1.05	0.75/0.11	0.04/-0.60	-1.37/-1.46	-1.43/-2.04	-3.88/-7.53	-11.07/-10.67	-5.41/-3.46	-1.39/-0.14	-0.36/-1.27
Θ(45°)	-4.66/-4.64	-4.51/-5.67	-8.43/-7.01	-4.89/-3.52	-1.60/0.02	1.08/1.71	2.03/2.23	2.23/1.87	1.76/2.72	3.94/4.53	3.96/2.72	0.16/-1.55	-1.17/-0.27	1.39/1.68	0.40/-1.09	-0.18/0.79	1.41/1.43	0.21/-3.60	-4.98/-5.36	-4.17/-5.46	-11.30/-6.07	-2.87/-0.76	-0.35/0.28	0.77/0.26
Θ(52.5°)	-0.23/-1.29	-3.44/-4.32	-10.96/-7.95	-4.79/-3.37	-0.98/-0.24	-0.40/-1.07	-0.40/0.46	0.78/0.38	0.03/0.84	1.66/3.08	2.88/2.00	0.29/-1.25	-1.40/-0.84	0.22/-1.62	-2.05/-0.27	-0.29/0.94	0.28/-1.04	-2.30/-4.28	-6.11/-3.87	-3.81/-7.06	-6.56/-3.40	-0.84/-0.17	0.14/-0.59	1.26/1.80
Θ(60°)	3.45/2.29	1.02/-0.07	-2.93/-6.99	-6.88/-3.90	0.15/1.40	0.19/-2.28	-1.41/0.55	1.47/0.86	-1.46/-2.90	-2.11/-1.71	-0.55/0.01	1.64/2.08	1.85/2.62	2.74/1.25	-1.74/-2.28	-4.61/-3.39	1.97/0.69	0.61/0.62	0.82/0.07	-2.00/-6.34	-5.54/-0.30	2.11/2.78	1.47/-1.18	-0.26/3.54
Θ(67.5°)	4.05/4.26	3.23/2.21	0.68/-1.84	-3.14/-2.07	0.62/1.20	0.35/-0.68	-2.04/-1.13	-0.27/-0.27	-1.95/-3.30	-2.37/-4.08	-4.22/-1.95	0.05/2.28	2.89/1.45	3.44/2.97	1.15/-0.07	-1.71/-1.15	0.64/0.75	0.21/-1.36	-2.91/-3.93	-6.64/-8.62	-9.68/-1.34	2.57/3.95	3.42/1.64	0.87/3.19
Θ(75°)	0.95/2.99	4.40/4.00	1.89/-0.32	-0.31/0.20	1.01/-0.69	-2.41/-1.28	-2.17/-3.34	-1.56/-0.01	-0.66/-2.21	-1.22/-1.88	4.54/-3.46	0.55/3.51	4.33/4.21	3.46/3.06	2.17/1.20	-2.61/-2.02	-4.24/-1.77	0.14/0.29	-1.65/-2.58	-0.57/-0.96	-4.47/-0.14	1.44/2.77	2.85/3.34	1.76/1.26
Θ(82.5°)	0.54/1.64	2.16/0.99	1.59/1.03	-0.24/-2.27	-1.87/-1.96	-1.95/-1.28	-4.16/-6.28	-3.15/-2.26	-2.42/-2.96	-0.02/1.58	1.16/1.94	4.15/5.97	6.59/5.48	4.99/4.86	3.49/1.85	-1.29/-4.02	-1.70/-0.61	1.47/1.67	2.37/-0.08	-0.51/-0.38	-3.72/-0.60	2.39/3.08	3.63/3.40	0.28/1.70
Θ(90°)	2.41/1.05	0.27/-0.27	-0.78/-1.94	-1.75/-1.20	-2.82/-2.73	-1.89/-2.08	-3.01/-5.30	-4.92/-4.21	-2.08/-4.35	-0.06/1.65	1.47/3.35	5.20/5.84	6.69/5.51	4.73/4.18	4.17/2.50	-2.06/-2.77	0.88/-0.27	-1.31/0.21	-4.28/-2.70	-2.97/-0.35	1.03/-1.24	1.57/3.57	2.97/2.75	2.73/4.35
Θ(97.5°)	4.15/2.52	-0.54/-1.91	-3.58/-4.11	-2.96/-2.56	-2.61/-1.59	-1.70/-4.68	-10.39/-6.03	-5.39/-7.36	-11.19/-10.81	-2.53/-0.49	1.30/3.38	3.36/3.27	3.86/3.75	3.47/2.95	3.84/2.07	-0.88/-1.31	-1.15/-0.53	-3.13/-2.56	-3.54/-4.08	-8.66/-4.02	-3.53/-4.87	-0.78/-0.26	1.58/2.41	2.51/4.29
Θ(105°)	2.13/0.98	-2.75/-6.33	-11.46/-8.53	-5.57/-2.30	-0.53/-1.91	-5.28/-11.67	-12.34/-7.78	-4.61/-4.87	-9.43/-6.44	-4.80/-2.64	0.37/2.67	2.31/0.44	1.17/2.92	2.92/2.59	2.45/1.46	-1.10/-3.39	-4.84/-5.63	-5.78/-1.94	-4.54/-0.36	-2.74/-5.71	-4.81/-10.35	-0.70/-0.26	2.01/2.47	0.97/2.20
Θ(112.5°)	-6.80/-5.73	-4.26/-6.41	-8.84/-7.24	-4.61/-2.61	-1.81/-2.59	-9.21/-13.10	-11.08/-12.73	-9.91/-7.32	-11.80/-8.85	-1.97/0.32	0.06/-1.48	-0.67/-0.40	-0.57/-1.26	-0.89/-1.46	-0.48/0.68	-1.14/-0.26	-2.39/-2.97	-7.44/-4.12	-5.00/-2.24	-2.01/-4.65	-2.08/5.58	-9.04/-3.13	0.11/1.69	2.72/3.85
Θ(120°)	-5.01/-6.26	-11.35/-11.64	-8.75/-8.02	-6.32/-5.94	-4.38/-0.46	-5.71/-9.19	-12.45/-10.11	-4.61/-0.02	-6.60/-10.73	-5.76/-3.31	-0.91/-0.41	-1.57/-5.16	-5.38/-0.77	1.47/0.47	-0.99/-1.39	-0.68/-1.19	0.17/-4.65	-5.73/-2.22	-3.55/-10.32	-5.08/-5.58	-11.82/-5.29	-9.56/-6.51	-0.03/-2.18	-2.92/-5.43
Θ(127.5°)	-0.02/-3.32	-9.00/-14.22	-7.46/-3.50	-5.54/-3.83	-5.64/-6.29	-7.35/-10.74	-9.81/-9.25	-11.27/-7.74	-7.41/-6.60	-6.83/-4.48	-3.80/-2.53	-3.53/-3.24	-2.68/-1.29	-0.22/-3.17	-2.31/-0.71	-3.56/-3.24	-5.35/-3.54	-6.35/-6.88	-3.36/-0.63	-9.28/-0.97	-7.34/-5.81	-0.29/-3.92	-2.42/-1.69	
Θ(135°)	-2.82/-4.25	-6.33/-6.00	-4.36/-2.00	-2.35/-4.73	-7.08/-5.87	-5.03/-6.92	-9.55/-10.26	-8.50/-9.42	-12.36/-10.87	-8.49/-5.82	-4.35/-3.29	-3.85/-3.99	-4.40/-4.54	-3.96/-4.66	-5.71/-4.59	-4.53/-9.79	-1.18/-3.86	-1.39/-2.26	-3.58/-5.56	-3.69/-1.25	-4.82/-1.82	-1.79/-4.91	-7.75/-2.93	-2.18/-2.80
Θ(142.5°)	-10.29/-8.73	-6.36/-4.27	-3.56/-4.49	-6.50/-9.03	-10.17/-10.21	-10.87/-8.90	-7.28/-8.29	-10.90/-12.59	-13.48/-8.93	-4.60/-1.48	-1.03/-2.97	-6.87/-8.77	-7.12/-3.45	-3.65/-4.88	-2.72/-1.68	-5.44/-8.03	-4.76/-4.09	-1.20/-5.33	-7.36/-6.40	-3.27/-3.91	-1.53/-2.27	-1.87/-1.47	-3.47/-6.64	-7.18/-6.82
Θ(150°)	-4.06/-4.70	-5.57/-4.62	-4.60/-3.89	-6.48/-10.41	-6.12/-3.67	-4.47/-6.97	-9.47/-8.90	-7.25/-6.63	-5.70/-8.63	-5.70/-8.63	-5.70/-8.63	-5.70/-8.63	-5.70/-8.63	-5.70/-8.63	-5.70/-8.63	-5.70/-8.63	-5.70/-8.63	-5.70/-8.63	-5.70/-8.63	-5.70/-8.63	-5.70/-8.63	-5.70/-8.63	-5.70/-8.63	-5.70/-8.63
Θ(157.5°)	-5.07/-6.74	-9.04/-13.04	-11.69/-11.46	-10.99/-8.30	-5.66/-4.69	-6.60/-9.63	-10.76/-10.42	-10.21/-8.79	-6.42/-4.70	-4.53/-6.25	-10.43/-15.50	-7.36/-3.02	-1.07/0.01	0.38/0.04	-0.95/-1.61	-3.88/-9.04	-7.70/-5.60	-7.35/-7.91	-6.28/-5.83	-4.23/-2.83	-2.61/-2.11	-1.52/-2.12	-2.78/-1.80	-1.40/-2.59
Θ(165°)	-7.61/-9.37	-13.02/-15.48	-15.28/-12.89	-12.27/-12.79	-12.65/-12.74	-12.46/-11.82	-12.44/-13.92	-14.22/-11.83	-9.43/-8.76	-8.97/-11.13	-13.20/-10.15	-6.71/-3.99	-2.15/-1.14	-0.66/-0.83	-1.44/-2.98	-5.31/-2.78	-8.27/-1.98	-9.81/-7.46	-4.47/-3.08	-2.34/-1.36	-0.94/-1.69	-4.19/-6.57	-8.74/-9.45	-7.53/-6.59
Θ(172.5°)	-5.14/-5.93	-7.00/-7.74	-9.37/-12.77	-11.49/-13.26	-13.49/-13.45	-13.26/-12.42	-13.51/-12.67	-10.60/-9.59	-9.23/-8.80	-11.21/-14.16	-14.46/-13.73	-15.45/-12.67	-6.45/-7.27	-9.45/-12.61	-14.12/-13.40	-10.82/-8.67	-7.14/-6.62	-6.29/-6.61	-7.45/-8.42	-6.84/-7.17	-8.26/-10.64	-11.55/-10.13	-8.66/-6.60	
Θ(180°)	-12.77/-14.13	-15.41/-15.56	-15.38/-15.33	-15.08/-15.24	-14.93/-14.41	-15.11/-15.48	-15.87/-15.12	-15.58/-15.48	-15.48/-15.86	-15.42/-15.98	-16.12/-15.63	-15.65/-15.78	-15.30/-13.92	-13.00/-12.44	-12.32/-12.65	-12.24/-12.02	-11.15/-10.58	-10.34/-9.43	-10.09/-13.96	-14.70/-16.03	-14.73/-12.50	-10.59/-9.95	-9.89/-11.12	-10.25/-11.38
Freq(Hz)	6.475GPol.	TotalAnt.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	3.39/3.49	3.50/3.73	3.95/3.86	3.71/3.33	3.06/2.82	2.95/3.02	3.16/3.02	3.01/2.96	3.13/3.45	3.79/3.97	4.10/4.08	4.06/4.13	4.35/4.34	4.34/4.32	4.22/4.10	3.89/3.80	3.79/3.74	3.32/2.78	2.57/2.48	2.51/2.70	2.67/2.74	2.89/3.16	3.53/3.57	3.37/3.49
Θ(7.5°)	4.67/4.57	4.01/4.08	4.16/4.22	3.90/3.72	3.62/3.39	3.16/3.04	2.80/2.45	2.33/2.16	1.96/2.45	2.39/1.91	2.27/1.93	2.63/2.22	3.02/3.14	3.36/2.98	3.56/3.51	3.56/3.54	3.47/3.30	3.27/3.15	3.10/2.94	3.02/2.67	3.03/3.02	3.12/3.14	3.50/3.63	4.13/4.78
Θ(15°)	3.73/3.00	2.51/3.01	3.66/4.06	3.86/3.90	3.88/3.57	3.79/3.42	2.80/2.29	1.65/1.06	0.56/2.00	-0.03/-0.23	-0.27/-0.26	-0.03/-0.42	0.99/1.31	1.58/1.64	1.82/1.97	2.29/2.47	2.46/2.46	2.80/2.86	2.59/2.16	1.81/1.98	2.32/2.29	2.72/2.84	3.00/3.43	
Θ(22.5°)	0.54/0.16	0.98/1.79	2.16/2.22	2.25/2.56	2.74/2.70	2.44/2.01	1.43/0.37	-0.60/-0.54	-0.76/-1.16	-2.42/-3.17	-3.36/-3.20	-3.11/-2.40	-0.82/-0.12	0.48/0.87	1.32/1.86	2.23/2.19	2.08/2.35	2.85/2.76	2.70/2.20	1.66/0.71	0.43/-0.00	-0.39/-0.32	-0.01/0.42	0.63/0.80
Θ(30°)	4.14/-4.49	-4.73/-3.93	-2.71/-1.07	0.17/0.80	1.05/0.86	0.69/0.82	1.11/1.00	0.28/-0.41	-0.82/-0.74	-0.75/-1.12	-1.38/-1.91	-3.31/-3.98	-2.26/-1.45	-1.16/-0.06	1.03/1.84	2.06/1.91	1.84/1.55	0.84/0.67	0.34/-0.17	-1.24/-2.41	-3.31/-5.12	-6.62/-4.74	-3.26/-3.55	-2.54/-2.24
Θ(37.5°)	-1.34/-3.67	-6.83/-8.14	-7.48/-5.21	-3.21/-4.94	-4.44/-2.64	-0.90/0.45	1.51/1.50	1.30/0.17	-0.60/1.11	1.20/1.62	1.29/-0.09	-1.52/-2.45	-0.80/-3.33	1.08/1.22	1.31/1.29	1.12/1.18	0.72/0.43	-1.89/-5.14	-5.25/-4.29	-1.27/-12.72	-1.77/-7.61	-1.63/-1.55	-0.02/0.40	
Θ(45°																								



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Θ(15°)	-1.81/-1.43	0.20/-1.40	2.36/2.89	3.28/3.35	3.54/3.55	3.66/3.60	3.46/2.93	2.64/1.85	0.72/-0.37	-0.74/-0.23	0.30/0.46	0.06/-0.30	-0.63/-0.87	-0.94/-1.15	-1.22/-1.47	-1.59/-1.60	-1.72/-1.74	-1.46/-1.69	-1.88/-2.14	-2.36/-2.55	-2.52/-2.34	-2.27/-1.93	-2.27/-2.03	-1.59/-1.43
Θ(22.5°)	-0.19/-0.45	0.43/1.76	2.74/3.80	4.86/5.54	5.66/5.59	5.54/5.48	4.95/5.41	4.00/3.38	2.45/0.92	-1.40/-3.70	-2.79/-1.24	-0.26/-0.35	-0.34/-0.97	-2.26/-3.09	-2.53/-1.20	-0.31/-0.35	-1.32/-2.68	-3.78/-4.07	-3.84/-3.75	-3.93/-4.40	-3.03/-1.78	-1.71/-2.21	-3.66/-3.83	-1.80/-0.06
Θ(35°)	1.61/0.62	0.79/1.85	2.54/5.17	5.37/4.49	3.40/2.87	2.65/2.26	2.29/2.70	3.47/3.90	3.60/2.68	1.01/-2.34	-6.17/-6.01	-4.67/-4.12	-5.07/-7.94	-9.46/-6.38	-3.29/-1.74	-1.79/-2.45	-4.34/-8.72	-2.19/0.07	-2.90/-2.58	-2.70/0.27	-0.89/-2.17	-1.10/0.22	-0.92/-3.56	-1.37/1.33
Θ(37.5°)	2.62/1.01	1.32/2.27	4.23/3.77	1.69/0.44	0.09/-0.46	-0.31/-0.15	0.23/0.94	1.51/1.88	2.06/1.72	1.16/-0.35	-3.43/-7.89	-11.87/-13.16	-14.60/-14.46	-10.07/-6.78	-4.24/-3.11	-3.88/-4.35	-6.05/-7.95	-6.93/-3.10	-0.09/-1.52	2.85/2.60	0.57/-1.61	-3.21/-1.62	-2.37/-1.49	1.04/3.13
Θ(45°)	2.38/1.26	2.38/3.38	3.33/1.44	0.49/1.35	1.44/-0.17	0.45/-0.19	-0.43/-0.01	3.07/3.13	-0.26/-0.99	-2.13/-2.29	-2.67/-4.42	-8.66/-11.63	-8.99/-8.05	-7.27/-4.97	-1.55/-1.39	-1.20/-0.73	-2.50/-1.71	-5.37/-3.09	-2.75/-0.02	2.62/3.99	4.67/3.23	0.42/-0.33	-1.65/-3.55	-0.54/2.58
Θ(52.5°)	1.01/0.69	2.27/2.04	0.96/-0.06	1.70/1.50	-0.15/-3.01	-4.28/-2.98	-1.94/-1.97	-2.42/-1.56	-0.04/-0.53	-2.13/-2.47	-3.28/-4.19	-7.73/-5.60	-2.28/-2.11	-5.21/-1.96	-1.20/-1.12	3.26/3.03	0.42/-3.19	-7.05/-6.77	-8.43/-5.81	1.09/0.90	5.78/5.07	2.06/-1.08	-1.18/-2.88	-0.22/0.93
Θ(60°)	-0.09/-0.49	1.05/-0.55	-3.82/-2.22	-0.00/-0.95	-3.23/-2.89	-1.25/0.21	0.08/-0.66	-1.37/-2.55	-2.54/-2.21	-4.17/-4.50	-2.28/-2.77	-5.96/-9.50	-3.77/-0.72	-4.08/-4.87	-2.87/0.86	3.21/2.91	0.33/-4.00	-3.67/-1.36	-1.87/-6.25	-1.96/2.72	4.07/3.47	1.85/3.25	1.64/-3.46	-1.22/-0.85
Θ(67.5°)	1.20/0.03	-2.21/-4.47	-6.20/-10.3	0.55/-0.63	-1.32/0.88	0.96/0.69	-0.60/-2.28	-4.00/-6.41	-6.13/-7.87	-8.31/-6.08	-9.63/-9.95	-4.97/-6.04	-6.30/-7.42	-4.86/-0.07	-0.05/1.86	3.63/3.99	1.69/-0.92	1.09/2.69	2.53/0.19	-0.16/-1.63	1.77/2.41	2.20/3.58	0.50/-5.23	1.07/1.49
Θ(75°)	-0.98/-1.61	-3.25/-8.22	-5.42/-13.1	0.27/-0.26	-1.58/-1.49	-0.67/1.02	0.63/-1.35	-1.18/-0.95	-0.14/-3.71	-7.27/-1.98	-3.96/-3.05	-0.02/-2.07	-3.89/-3.21	-1.19/-0.85	-0.62/1.74	4.65/5.01	4.11/0.59	1.26/2.62	4.28/2.63	1.95/0.82	-2.72/-2.07	1.94/2.57	-0.63/-2.71	2.28/2.57
Θ(82.5°)	-1.37/-2.98	-3.44/-6.25	-2.80/-1.66	-4.40/-4.78	-2.73/-2.12	-0.28/-0.31	-2.18/-2.58	-0.19/-1.56	1.07/-1.57	-2.04/-2.10	-1.55/-0.15	-1.26/-0.90	-3.65/-4.71	0.19/-1.05	-0.48/2.38	0.87/3.21	4.72/4.22	3.49/3.78	3.63/3.18	0.89/0.03	1.68/1.81	2.97/2.28	0.94/0.80	3.80/2.41
Θ(90°)	-1.84/-2.27	-2.97/-5.89	-2.32/-0.85	-5.88/-2.49	1.12/1.70	2.68/1.00	-0.23/-1.25	0.86/1.43	2.11/1.41	0.03/-0.12	-1.73/-0.85	-0.13/0.78	-1.28/-3.61	-0.10/-0.77	1.22/2.63	3.67/4.28	1.47/-3.74	-2.62/-0.81	-0.96/-1.36	-0.08/-4.04	-2.67/-0.95	-0.27/-1.39	2.89/1.95	
Θ(97.5°)	-5.19/-1.10	-2.52/-5.18	-4.14/-3.77	-9.08/-5.27	0.31/1.49	2.54/1.66	1.70/1.88	2.57/2.47	2.26/0.94	0.12/-1.03	1.67/1.73	0.99/2.24	-0.44/-2.96	-2.37/-3.75	-3.08/1.19	0.29/-8.51	-0.02/2.38	1.58/-2.40	-5.53/-6.45	-0.52/-3.49	-2.87/-8.10	-2.05/0.24	2.10/-1.32	
Θ(105°)	-9.16/-5.48	-8.48/-12.14	-6.39/-7.82	-6.39/-2.14	0.25/1.42	1.31/0.72	-0.45/-1.17	1.72/1.14	2.22/1.00	-0.14/-1.82	0.91/0.69	0.99/1.91	-1.25/-4.29	-4.41/-6.16	-7.59/-3.92	-0.55/-3.41	-6.55/-2.73	-1.31/-1.12	-9.22/-7.55	-3.86/-4.38	-3.85/-12.36	-8.75/-7.46	-8.64/-2.23	0.06/-2.76
Θ(112.5°)	-6.31/-6.87	-9.87/-6.78	-6.53/-8.71	-7.17/-2.47	0.22/1.00	0.02/0.45	0.83/1.94	1.90/2.62	3.03/2.43	2.34/1.65	0.67/0.16	1.74/1.95	-0.52/-4.76	-7.49/-6.75	-6.50/-4.01	-2.87/-8.28	-8.93/-3.70	1.50/0.56	-0.50/-1.13	-11.66/-8.72	-3.52/-4.17	-2.36/-1.86	-4.32/-2.91	
Θ(120°)	-5.96/-10.12	-11.73/-9.04	-8.54/-7.04	-7.05/-4.44	-3.09/-3.77	-4.37/-5.16	-4.22/-3.08	-1.00/-1.68	2.09/1.33	1.35/2.65	2.05/-0.52	-2.16/0.32	0.27/-1.07	-1.20/-2.08	-1.51/-4.58	-9.20/-7.19	-3.57/-5.86	-2.56/-5.14	-9.04/-12.11	-10.62/-11.66	-13.12/-5.17	-9.02/-4.33	-2.57/-1.74	-5.86/-6.64
Θ(127.5°)	-9.22/-9.71	-13.83/-15.58	-8.30/-3.93	-3.55/-3.70	-3.50/-2.81	-3.88/-3.95	-3.02/-0.89	0.16/0.54	-0.49/-0.26	1.12/1.35	-0.57/-4.42	-2.50/-0.17	-1.09/-2.82	-1.59/-7.17	-6.79/-10.29	-5.60/-4.26	-11.37/-6.00	-3.04/-10.97	-3.06/-1.48	-1.53/-3.35	-5.44/-6.82	-3.26/-2.36	-10.05/-6.20	-4.62/-6.28
Θ(135°)	-14.36/-9.93	-4.24/-3.28	-3.70/-5.89	-7.70/-9.56	-6.74/-3.64	-1.00/-2.06	-0.52/-1.01	-0.36/0.06	0.43/-1.22	1.76/1.54	1.21/1.09	2.45/2.11	0.47/-5.87	-5.11/-5.16	-4.86/-4.17	-2.48/-3.74	-0.81/-1.69	-0.58/0.32	-2.77/-8.52	-12.31/-5.97	-10.17/-13.97	-15.08/-12.14		
Θ(142.5°)	-5.37/-6.01	-7.90/-7.09	-9.03/-13.10	-11.74/-6.17	-5.39/-5.89	-5.44/-4.86	-5.10/-4.74	-4.96/-5.60	-4.25/-3.04	-2.25/-1.27	-0.24/0.06	2.38/1.95	-0.08/-9.03	-3.59/-4.77	-2.45/-3.68	-2.51/-4.50	-2.14/-1.46	-9.79/-5.15	-3.30/-6.64	-11.54/-3.80	-1.62/-6.20	-10.44/-10.56	-6.14/-4.55	-3.85/-3.99
Θ(150°)	-10.44/-10.28	-10.16/-7.77	-4.96/-3.92	-5.13/-6.33	-5.03/-3.36	-2.17/-1.83	-1.95/-1.97	-1.68/-1.74	-1.62/-1.20	-0.05/0.01	-0.55/-0.86	-2.38/-3.18	-3.31/-1.96	1.64/0.88	0.83/1.57	1.41/-1.04	0.47/0.15	-3.49/-4.53	-2.97/-2.25	-5.04/-6.17	-1.66/-1.45	-2.15/-2.78	-4.15/-6.76	-10.32/-11.39
Θ(157.5°)	-8.41/-8.87	-12.27/-15.47	-12.52/-9.19	-7.56/-7.79	-7.72/-6.54	-5.18/-3.70	-1.96/-0.08	1.26/1.55	1.35/1.53	1.46/0.56	0.43/0.24	-0.86/-0.67	-1.54/-2.24	-1.81/-3.27	-2.58/-1.48	-1.03/-1.67	-3.90/-9.69	-13.22/-8.29	-7.22/-6.55	-8.25/-6.72	-4.74/-4.61	-2.97/-1.70	-2.24/-4.04	-6.62/-8.60
Θ(165°)	-7.80/-6.83	-5.62/-6.28	-8.09/-8.75	-7.59/-6.78	-6.75/-6.40	-5.60/-4.89	-3.92/-3.37	-2.74/-1.78	-0.55/0.37	0.72/0.90	1.18/0.65	-1.24/-2.53	-2.90/-4.42	-8.30/-12.81	-10.19/-5.14	-1.76/-0.13	-0.47/-2.28	-4.90/-6.65	-6.85/-6.22	-5.06/-4.39	-4.67/-5.03	-5.08/-5.64	-7.60/-9.64	-9.42/-8.39
Θ(172.5°)	-7.20/-6.48	-6.29/-6.50	-6.19/-5.61	-4.89/-4.17	-3.42/-2.57	-2.53/-2.29	-2.15/-1.68	-1.26/-0.85	-0.37/-0.21	-0.55/-0.71	-1.04/-1.58	-2.58/-4.00	-5.59/-6.86	-8.53/-9.99	-10.25/-9.49	-7.85/-6.91	-6.87/-8.04	-8.75/-7.92	-7.43/-8.13	-8.16/-9.25	-10.83/-13.65	-15.58/-14.73	-15.08/-11.91	-0.98/-7.63
Θ(180°)	-6.39/-6.92	-6.92/-6.77	-6.42/-5.19	-4.14/-3.20	-2.19/-1.52	-1.07/-0.98	-0.46/-0.59	-1.51/-2.23	-2.16/-2.62	-2.71/-2.37	-2.16/-2.07	-2.51/-3.30	-4.60/-5.65	-6.49/-7.92	-8.21/-8.03	-6.84/-5.43	-3.92/-2.81	-2.14/-2.22	-2.51/-2.44	-2.44/-2.69	-3.52/-4.49	-5.09/-5.28	-5.29/-4.58	-4.35/-4.72
Freq(Hz)	6.475GPol.	TotalAnt.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-0.75/-0.70	-0.43/-0.02	0.41/0.51	0.57/0.67	0.80/0.91	1.48/1.57	1.56/1.61	1.43/0.52	0.39/-0.25	-0.28/-0.35	-0.25/-0.13	-0.10/-0.04	0.18/0.09	-0.10/-0.12	0.31/0.30	0.43/0.96	1.20/1.72	2.28/2.63	2.79/2.36	1.74/1.10	0.91/0.94	0.81/1.60	1.14/0.08	-0.75/-0.79
Θ(7.5°)	-0.93/-0.38	0.21/0.93	1.39/1.82	1.98/1.94	2.02/2.10	2.22/2.07	1.95/1.95	1.80/1.51	1.16/0.93	0.66/0.06	0.23/0.43	0.70/0.58	0.35/0.30	0.55/1.06	1.88/2.19	1.36/1.74	1.96/1.49	1.36/1.74	2.15/1.96	0.95/0.02	0.50/1.16	1.37/1.01	0.34/-0.87	-1.35/-1.12
Θ(15°)	-1.38/-0.51	0.28/1.19	1.72/2.32	2.96/3.52	4.14/4.47	4.24/4.35	4.49/3.85	3.41/3.07	3.61/2.77	1.57/0.74	0.36/0.01	-0.22/0.35	0.89/1.03	0.95/1.15	1.19/1.20	0.67/-0.42	-2.25/-3.67	-5.12/-6.43	-6.33/-6.08	-5.82/-6.51	-6.60/-5.42	-4.36/-2.07	-1.87/-2.74	-3.15/-2.66
Θ(22.5°)	0.38/0.29	0.95/1.85	2.54/3.17	3.37/3.12	2.49/1.99	2.15/2.83	3.52/3.89	3.77/3.76	4.08/4.08	3.57/1.91	-0.66/-3.43	-3.39/-2.68	-1.33/-0.55	-0.47/-1.03	-1.59/-3.24	-5.49/-5.34	-3.61/-2.43	-2.25/-2.19	-2.78/-3.15	-2.98/-3.57	-4.77/-7.99	-10.40/-8.07	-6.05/-3.67	-1.72/-0.33
Θ(30°)	1.03/1.72	2.44/3.20	3.01/2.12	0.38/-0.92	-0.10/-0.28	0.18/-0.24	-0.43/-0.15	0.70/1.55	1.78/1.22	-0.82/-4.40	-4.54/-3.06	-2.73/-2.02	-3.31/-3.51	-2.80/-2.56	-2.48/-3.28	-4.43/-5.26	-7.56/-10.91	-11.06/-7.91	-6.81/-6.41	-5.12/-5.15	-8.90/-9.56	-5.94/-2.38	-1.28/-0.69	
Θ(37.5°)	1.06/2.66	3.48/3.41	2.06/0.49	0.04/0.73	0.96/1.02	0.71/0.19	0.17/-0.19	-1.11/-1.70	-2.32/-2.63	-1.91/-1.78	-1.32/-3.12	-5.75/-8.24	-10.61/-10.92	-6.54/-3.38	-6.32/-3.48	-2.47/-2.97	-3.16/-6.23	-7.86/-7.69	-4.99/-2.16	-1.42/-2.05	-2.37/-1.30	-1.78/-4.65	-5.23/-1.03	-1.55/0.99
Θ(45°)	1.84/3.09	3.20/2.53	1.62/0.64	-0.38/-1.85	-3.19/-3.45	-3.03/-1.89	-1.39/-1.26	-1.34/-1.81	-2.66/-3.48	-3.32/-3.08	-4.29/-3.84	-4.66/-7.80	-10.95/-8.57	-6.30/-6.99	-6.47/-6.62	-5.08/-5.51	-6.75/-6.73	-8.54/-2.43	-0.72/-1.30	1.25/3.26	0.85/-1.10	-0.37/-2.03	-1.68/-0.26	0.60/-0.49
Θ(52.5°)	1.12/1.34	-0.31/-2.02	-1.24/-1.69	-3.52/-5.51	2.10/0.05	0.34/-0.22	0.47/1.78	1.45/-0.40	-2.17/-3.48	-4.88/-6.94	-6.51/-6.94	-4.79/-2.68	-3.70/-4.72	-3.30/-1.98	0.36/2.01	1.55/-1.69	-6.87/-6.02	-2.85/-2.55	4.08/0.41	4.17/1.97	-3.09/-3.98	-6.50/-6.18	-1.73/-1.24	
Θ(60°)	-0.23/-0.84	-4.20/-4.54	-3.47/-2.31	-2.48/-0.52	0.83/1.80	0.81/0.04	-0.96/-0.82	-1.06/-0.23	-0.86/-3.00	-6.06/-7.10	-9.78/-9.60	-5.22/-4.01	-6.78/-3.48	-3.62/0.13	3.57/5.12	2.71/-2.76	-2.52/-2.90	-3.40/-5.00	-4.54/-1.96	4.48/4.28	2.73/0.42	-4.26/-3.75	0.40/-2.29	
Θ(67.5°)	-0.88/-2.30	-2.79/-6.41	-3.32/-0.80	-2.72/-2.27	0.81/1.94	2.09/1.64	0.54/-0.29	-0.65/-3.23	-1.68/-3.97	-7.30/-9.52	-7.05/-9.58	-6.74/-7.31	-8.63/-0.28	-1.02/-2.90	-4.73/-0.09	3.26/3.13	1.28/-0.30	0.67/3.25	3.89/0.54	-0.61/0.77	1.52/2.64	3.34/3.83	1.26/-0.23	1.39/0.44
Θ(75°)	-0.70/-1.07	-1.38/-4.50	-2.80																					



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Appendix D

θ(60°)	0.76/1.01	1.890/3.7	-2.56/-1.56	1.02/1.30	1.27/1.25	0.75/-0.42	-2.77/4.34	-3.75/-4.41	-8.72/-4.38	-0.40/1.26	1.47/1.97	2.25/4.28	4.44/1.70	-0.81/-1.10	-2.46/-3.55	-5.00/-6.67	-1.67/0.44	-0.76/0.14	0.76/0.79	2.02/1.53	0.44/-0.67	-4.18/-8.71	-11.85/-5.67	-1.17/1.59
θ(67.5°)	4.66/4.56	3.56/2.00	-0.48/-1.18	-0.39/1.09	1.15/0.47	-0.11/-1.87	-4.72/-4.94	-5.88/-8.09	-9.10/-1.46	0.92/2.79	3.61/3.18	2.38/3.17	4.23/4.24	3.35/2.69	1.77/-0.90	-6.03/-6.86	-2.75/-0.32	-0.63/-0.85	0.83/0.86	-1.00/-4.66	-5.99/-3.71	-2.86/0.89	3.80/5.01	
θ(75°)	4.82/5.48	6.06/6.62	0.64/1.09	-0.46/-0.55	-0.48/0.78	0.54/0.27	-0.86/-4.86	-6.45/-4.00	-4.73/-2.35	-1.49/0.33	2.18/3.84	4.10/2.01	1.69/1.76	4.39/3.95	1.70/-0.51	-1.74/-1.19	-0.70/-2.23	-1.70/-1.14	-1.97/-0.59	1.68/2.33	-0.05/-4.18	2.97/1.25	2.03/3.30	4.96/5.46
θ(82.5°)	5.18/6.91	6.90/6.60	4.98/2.71	-0.47/-2.62	-3.35/3.25	-1.99/-1.63	-4.31/8.06	-14.30/-8.90	-4.12/-2.10	-1.98/0.46	1.97/3.46	4.22/3.55	1.08/-0.26	2.61/3.11	1.18/0.44	-0.53/-2.12	-0.58/-0.63	-2.40/-0.96	-2.03/-3.10	0.90/1.30	-1.06/-5.27	-2.33/0.74	2.41/2.69	3.39/4.69
θ(90°)	3.84/5.46	5.94/6.00	5.34/3.54	0.59/-1.02	-3.54/-4.32	-1.87/-0.21	-3.44/-12.82	-4.96/-1.83	-0.33/-2.06	-1.95/-1.38	2.53/3.63	3.63/4.51	4.32/2.41	0.89/0.96	-0.34/-0.88	-1.57/-3.49	-7.26/-4.79	-1.92/0.37	-1.23/0.37	-2.04/-4.71	-4.43/-0.94	1.91/3.26	3.63/4.58	
θ(97.5°)	2.79/3.87	2.93/2.67	3.16/2.73	0.96/1.59	1.73/-0.36	-0.81/0.40	-1.50/-4.30	-10.03/-4.67	-0.71/-1.72	-2.57/1.96	2.68/3.23	4.83/5.41	5.30/6.65	0.40/-0.25	-4.56/-6.15	-4.50/-2.42	-2.47/-5.35	-4.78/-2.77	-12.56/-12.64	-3.43/-1.28	-3.01/-6.61	-3.80/5.53	2.56/3.21	3.12/2.19
θ(105°)	0.13/-0.46	-0.90/-0.82	2.15/3.55	3.27/3.51	3.52/1.85	-1.84/-3.38	-1.98/-3.52	-8.43/-8.24	-2.36/-4.53	-5.44/0.67	2.75/2.17	1.88/2.90	3.98/0.79	-4.76/-3.18	-4.87/-7.16	-7.24/-3.61	-1.83/-5.67	-8.98/-8.32	-9.98/-4.67	-4.91/-2.82	-7.49/-8.49	-5.57/-3.88	0.17/2.47	3.29/1.58
θ(112.5°)	-1.10/-1.24	-0.98/-1.35	1.49/3.55	3.78/2.44	1.47/0.06	-2.03/-2.95	0.12/0.11	-1.92/-6.06	-3.55/-6.32	-10.45/-2.81	1.15/1.26	-0.87/-1.86	-2.14/-2.98	-3.68/-2.65	-4.57/-10.38	-3.64/-4.24	-2.23/-5.22	-10.00/-11.58	-15.30/-5.79	-3.76/-6.67	-11.01/-9.26	-5.26/-3.52	-2.19/-1.20	-1.53/-2.25
θ(120°)	0.20/-0.44	-0.69/-0.15	2.56/3.42	2.57/0.74	0.71/1.64	0.34/-2.97	-3.72/-1.62	-2.10/-5.50	-9.09/-7.09	-3.49/-2.47	-2.69/-2.22	-6.60/-3.15	-5.32/-5.02	-10.73/-9.91	-3.82/-10.09	-4.43/-3.55	-6.39/-8.15	-9.51/-6.39	-8.20/-9.21	-6.28/-9.32	-10.77/-8.53	-6.60/-1.81	-0.08/0.40	0.58/-0.25
θ(127.5°)	0.63/-0.44	0.69/2.62	3.69/4.25	3.39/2.08	0.02/-2.20	4.45/-6.73	-8.36/-8.14	-6.59/-5.45	-6.46/-7.55	-10.56/-5.03	-2.70/-2.67	-8.11/-2.45	-2.13/-5.52	-14.90/-12.81	6.43/-8.44	-3.33/-4.38	-3.44/-8.29	-10.50/-12.38	-8.94/-5.83	-6.60/-4.29	-9.53/-7.27	-4.30/-5.23	-3.47/-3.33	0.08/0.39
θ(135°)	-2.88/-0.20	2.29/3.00	2.05/1.80	2.41/2.91	2.04/-0.55	-2.39/-1.37	-2.04/-3.96	-3.11/-0.43	1.11/-0.33	-5.42/-11.53	-5.41/-0.52	-0.91/-6.48	-5.45/-1.61	-4.86/-5.61	-5.43/-4.96	-6.36/-8.42	-7.98/-11.21	-6.64/-10.60	-6.16/-7.83	-9.08/-7.95	-12.42/-5.70	-7.94/-3.11	-1.91/-1.03	-0.94/-2.81
θ(142.5°)	-3.31/0.40	1.99/2.04	0.24/-1.88	-2.24/-1.64	0.10/2.67	4.34/4.13	2.42/0.47	-1.21/0.25	2.28/2.71	1.12/-2.23	-12.81/6.28	-0.62/-0.35	-3.71/-12.27	-8.44/-5.40	-5.15/-5.90	-3.08/-5.10	-8.52/-6.92	-6.45/-7.83	-12.22/-11.39	-14.07/-9.90	-7.77/4.83	-1.18/0.37	0.08/-1.09	-4.49/-5.56
θ(150°)	-2.58/-1.32	-0.66/-1.10	-1.99/-4.33	-5.69/-3.89	-1.37/0.77	2.31/3.65	4.06/2.64	-0.58/-1.77	-0.19/0.12	1.05/0.38	-2.42/-8.39	-8.87/-7.16	-6.08/-4.99	-3.09/-3.54	-3.57/-2.71	-2.57/-3.98	-4.98/-7.46	-12.72/-7.07	-10.58/-12.79	-11.39/-7.27	-2.38/-2.48	-2.50/-3.50	-6.95/-11.41	-8.33/-4.35
θ(157.5°)	1.63/2.14	2.15/1.30	0.18/-0.55	-0.96/-1.27	-0.58/0.81	1.68/-1.85	1.51/0.62	-1.09/-2.81	-1.23/-2.68	-2.66/-2.81	-3.24/-8.04	-5.86/-4.52	-3.44/-4.10	-7.18/-10.08	-9.14/-6.08	-4.36/-5.18	-7.04/-8.76	-9.99/-8.97	-10.25/-11.15	-5.76/-8.37	-4.28/-3.31	-2.52/-1.72	-0.01/-1.77	
θ(165°)	2.08/2.36	2.83/-1.78	0.46/-1.35	-2.72/-2.82	-1.99/-1.89	-1.83/-1.76	-2.05/-2.48	-4.57/-7.76	-10.27/-14.09	-9.74/-5.76	-3.06/-1.79	-1.33/-1.76	-2.29/-2.87	-3.88/-4.90	-5.74/-6.57	-6.02/-6.10	-7.23/-8.41	-9.37/-8.83	-7.22/-5.11	-3.37/-2.79	-3.29/-3.27	-2.22/-0.88	0.63/2.00	
θ(172.5°)	-0.27/-0.09	-0.54/-1.03	-2.20/-3.85	-4.39/-4.75	-5.73/-6.24	-7.91/-9.50	-12.45/-14.28	-15.30/-13.34	-10.13/-9.15	-7.98/-7.25	-6.92/-6.93	-7.78/-8.42	-8.73/-7.93	-7.34/-7.48	-7.62/-7.35	-7.18/-7.02	-7.80/-8.58	-8.86/-8.28	-7.33/-5.80	-5.01/-4.67	-4.47/-4.12	-4.02/-3.62	-2.85/-2.38	-1.11/-0.56
θ(180°)	-14.33/-16.31	-16.16/-15.89	-15.98/-16.08	-15.75/-15.21	-15.43/-12.44	-10.71/-8.39	-6.68/-6.71	-6.79/-3.64	-5.82/-5.88	-6.74/-7.90	-9.86/-12.08	-13.46/-12.34	-11.61/-11.58	-11.03/-10.83	-9.90/-9.42	-9.32/-10.10	-11.15/-13.14	-15.22/-13.85	-13.61/-12.49	-12.53/-12.25	-13.53/-14.83	-13.21/-12.35	-13.03/-14.56	-13.64/-13.57
Freq(Hz)	6.175/GPol.	Total/Ant. 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°)	0.77/1.01	0.60/0.72	0.86/0.61	0.43/0.26	0.06/-0.01	0.15/-0.62	-1.51/-0.50	-0.36/-0.64	-0.89/-0.85	-0.56/-0.11	0.53/0.85	0.70/0.57	0.41/0.38	0.64/0.82	0.68/0.40	-0.12/-0.40	-0.64/-1.18	-1.50/-1.69	-1.60/-1.49	-1.54/-1.22	-1.23/-1.08	-0.96/-0.82	-0.66/-0.47	-0.02/0.63
θ(7.5°)	0.28/0.22	0.40/0.49	0.01/-0.59	-0.41/-0.53	-1.07/-1.47	-2.20/-2.23	-1.95/-1.68	-1.62/-2.03	-2.00/-2.11	-2.93/-2.88	-2.92/-2.16	-1.09/-0.31	-0.28/-0.11	0.42/0.80	0.90/0.78	0.73/0.64	0.69/0.54	0.29/0.29	0.05/-0.09	0.07/-0.18	0.62/0.60	0.62/0.32	0.46/0.37	0.45/0.42
θ(15°)	-0.34/-0.02	-0.36/-0.77	-1.23/-1.40	-1.36/-1.69	-2.86/-4.21	-4.34/-4.15	-4.68/-5.22	-5.17/-5.16	-5.00/-4.58	-4.46/-4.36	-4.24/-3.70	-3.42/-2.89	-2.42/-1.99	-1.46/-1.11	0.94/-1.06	-1.06/-0.70	-0.22/0.29	0.47/0.45	0.53/0.84	1.37/1.77	2.11/2.20	1.95/1.43	0.98/0.56	-0.11/-0.43
θ(22.5°)	-0.44/-0.74	-1.04/-0.69	-0.30/-0.52	1.02/0.89	0.05/-0.49	-1.22/-1.82	-3.02/-3.75	-3.21/-2.16	-1.43/-1.54	-2.75/-4.52	-6.74/-7.61	-5.95/-5.43	-4.96/-9.41	-4.53/-4.20	-2.21/-0.41	-3.25/-2.26	-1.31/-0.16	0.74/1.05	1.03/1.51	1.61/1.18	2.04/2.28	2.38/2.18	1.44/0.68	0.17/0.18
θ(30°)	0.80/0.59	0.49/0.99	1.74/2.20	1.21/1.49	0.69/-0.33	-0.94/-1.62	-2.39/-2.68	-3.57/-3.64	-3.44/-3.04	-4.87/-8.97	-12.10/-8.61	-7.50/-4.42	-4.35/-4.63	-8.88/-7.45	-5.20/-4.01	-4.35/-4.51	-3.33/-1.17	0.20/0.73	0.30/-0.36	-0.37/0.62	1.28/1.45	1.73/2.09	1.93/1.30	1.37/1.23
θ(37.5°)	1.75/1.60	1.09/1.10	1.08/0.50	-0.26/-1.04	-1.97/-2.46	-2.37/-2.58	-3.05/-3.68	-4.91/-5.25	-4.33/-4.41	-7.22/-8.28	-4.10/-1.79	0.08/0.23	-0.71/-2.68	-6.28/-6.30	-2.87/-1.39	-2.34/-4.29	-2.01/1.09	2.19/1.91	0.96/0.28	0.61/0.70	1.36/1.42	0.56/0.15	0.23/0.73	1.68/1.44
θ(45°)	-1.24/0.67	1.35/2.20	1.73/0.80	0.32/-1.17	-1.88/-2.46	-3.99/-6.85	-5.86/-5.63	-7.27/-8.42	-6.94/-5.91	-7.39/-4.70	-1.21/0.16	0.51/0.20	-0.75/-2.10	-3.87/-5.02	-3.00/-2.68	-4.43/-4.65	-1.02/2.22	3.03/2.09	0.84/-0.06	-0.59/0.85	1.54/1.25	-0.27/-1.86	-2.48/-2.79	-2.29/-2.67
θ(52.5°)	-1.40/-1.83	0.57/1.37	0.92/0.72	-1.33/-1.47	-2.35/-4.24	-6.47/-6.87	-5.96/-5.06	-4.12/-4.52	-7.96/-6.66	-1.06/-0.13	1.19/0.88	-0.09/-0.55	-0.12/-0.04	-1.12/-9.53	-3.72/-9.75	-3.32/0.25	2.20/2.71	1.69/-1.28	-1.07/-0.11	-7.40/-5.50	-9.66/-6.76	-4.81/-3.18		
θ(60°)	0.31/-0.21	0.17/-0.20	-2.38/-5.75	-5.12/-2.31	-1.82/-2.07	-1.84/-1.64	-1.98/-3.40	-5.45/-5.93	-10.48/-7.06	0.24/2.43	2.82/2.35	1.59/1.17	1.72/2.55	3.96/0.95	-3.73/-1.04	-3.68/-8.40	-7.62/-1.87	1.18/1.18	0.12/-1.20	0.12/1.50	0.30/-3.21	-9.88/-5.96	-3.64/-2.24	0.10/0.97
θ(67.5°)	1.85/0.89	0.70/0.40	-2.35/-4.50	-1.44/0.13	0.47/1.24	1.50/0.83	-2.08/-5.77	-12.03/-14.76	-14.83/-5.36	0.10/3.13	4.02/2.72	2.98/3.43	4.97/5.01	4.76/3.46	-0.39/-0.80	-2.84/-6.34	-6.05/-2.86	-1.22/0.15	-2.42/-1.44	1.07/1.06	-2.73/-6.16	-11.61/-6.90	-3.38/0.12	2.73/2.56
θ(75°)	3.25/3.51	3.72/3.19	2.15/0.08	-0.19/-0.01	-0.27/-1.70	-0.37/0.25	-2.14/-6.86	-12.72/-12.77	-5.24/-2.94	-2.20/0.30	2.81/4.06	3.90/3.22	2.41/3.28	4.26/2.94	0.64/0.28	-0.80/-5.52	-6.12/-0.79	-0.52/-0.52	-3.23/-3.60	0.31/0.13	-2.18/-4.86	-4.62/-1.89	0.92/3.46	5.25/4.54
θ(82.5°)	1.51/2.68	3.60/4.15	4.09/2.53	1.28/0.19	-1.35/-2.91	-1.40/-1.25	-2.13/-5.03	-13.40/-10.17	-4.09/-1.92	-1.20/-2.12	-0.42/2.58	4.64/5.00	2.45/-0.93	-0.22/0.03	-1.58/-1.04	-0.93/-3.32	-1.22/-1.41	-0.93/-3.32	-4.80/-1.18	1.96/0.63	-3.84/-5.25	-3.36/0.39	3.49/4.25	4.71/2.50
θ(90°)	0.82/2.66	3.57/3.26	3.08/2.88	0.88/-2.74	-2.41/-6.06	-7.00/-3.07	-1.02/-5.70	-10.05/-5.15	-4.73/-7.07	-6.24/-0.72	2.69/2.94	3.25/4.88	4.95/2.78	-2.34/-4.24	-1.87/-3.94	0.48/-2.55	-2.45/-1.76	-5.94/-7.22	-8.73/-3.98	0.25/-1.23	-6.32/-4.28	-2.49/-0.08	1.84/4.11	3.98/2.43
θ(97.5°)	1.61/2.39	2.20/3.43	0.85/1.74	0.32/-1.06	-0.24/-1.65	-5.22/-0.89	-0.83/-3.92	-6.20/-4.33	-5.85/-10.95	-4.63/-1.01	1.33/2.24	3.35/1.17	3.36/2.26	-0.76/-1.96	-3.30/-1.73	-3.92/-11.69	-8.71/-15.45	-6.99/-7.34	-3.95/-3.88	-5.22/-4.38	-2.38/0.98	2.63/3.25	3.05/2.33	
θ(105°)	1.23/1.45	1.06/-1.67	0.39/2.88	1.33/0.24	0.66/-0.63	-4.69/-4.66	-1.91/-3.51	-7.57/-5.77	-6.94/-8.78	-2.78/0.05	1.23/0.33	-0.10/2.26	0.29/-2.99	-4.09/-0.08	-3.23/-9.61	-3.34/-6.68	-4.47/-8.37	-9.17/-8.08	-7.18/-6.85	-6.19/-4.96	-1.47/-1.15	0.67/2.80	2.70/1.43	
θ(112.5°)	-0.06/0.30	-0.49/-1.96	0.40/2.68	1.25/0.11	0.11/-0.70	-4.64/-4.10	-2.32/-2.42	-6.67/-7.07	-2.97/-7.72	-8.66/-2.97	-0.62/-0.72	-1.21/-1.47	-3.97/-12.53	-12.28/-6.10	-1.61/-4.23	-4.17/-3.56	-3.84/-7.26	-10.71/-8.88	-14.47/-6.63	-6.44/-7.16	-8.24/-6.00	-5.52/-2.10	-0.15/-0.39	-0.15/-0.09
θ(120°)	-1.03/-1.52	-0.74/-0.88																						



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Appendix D

Θ(112.5°)	-8.64/-8.22	-6.54/-9.82	-3.78/-2.17	-1.67/-1.68	-6.23/-4.60	-1.01/-0.68	-1.75/-2.24	-2.80/-2.96	-1.50/-6.47	-14.82/-10.97	-8.78/-6.20	-9.34/-10.71	-6.46/-5.27	-2.55/-1.05	-2.68/-1.86	0.59/3.44	4.13/1.02	-0.35/-1.71	2.36/-0.05	-0.15/-2.66	-2.08/2.34	0.64/-2.79	-4.31/-2.34	-0.03/-0.33
Θ(120°)	-4.23/-6.35	-0.36/-1.81	-4.65/-0.74	-0.61/-6.77	-9.99/-3.61	-3.74/-5.94	-4.37/-4.25	-6.35/-5.74	-5.25/-7.88	-6.33/-2.83	-3.88/-2.87	-4.94/-7.24	-8.30/-5.20	-0.46/0.24	-1.46/-5.40	-5.20/-1.38	1.54/-0.66	-3.82/-4.91	2.94/-1.72	-5.28/0.44	0.71/2.87	0.76/-3.10	-0.37/-1.07	1.21/0.82
Θ(127.5°)	-2.26/-2.57	-3.41/-5.43	-12.60/-2.24	-1.61/-2.22	-5.02/-7.63	-13.25/-3.50	0.49/1.31	-0.02/-2.16	-9.85/-12.78	-2.39/-1.80	-6.59/-13.62	-7.65/-9.30	-7.08/-4.15	-1.81/-2.71	-8.61/-5.59	-9.17/1.49	-4.61/0.57	-2.01/-5.83	4.08/0.87	-4.38/-0.09	1.32/2.00	3.36/-4.00	-13.07/-14.58	0.90/-0.89
Θ(135°)	-7.22/-7.33	-6.33/-12.65	-12.47/-8.63	-3.12/-2.43	-2.30/-4.50	-7.13/-2.14	0.08/-1.03	-3.00/-5.72	-6.44/-5.76	-5.52/-3.41	-4.82/-6.34	-8.86/-12.98	-9.13/-5.94	-5.31/-3.76	-6.78/-9.18	-2.13/-3.15	-6.91/-1.63	0.05/-1.71	3.01/-0.47	-8.34/-3.82	-1.32/-2.21	-0.73/-4.71	-9.70/-5.04	1.02/1.12
Θ(142.5°)	-2.76/-7.63	-5.02/-2.90	-2.74/-2.86	-5.85/-8.82	-5.77/-4.41	-5.14/-7.18	-7.64/-9.22	-9.61/-10.71	-11.06/-11.88	-10.20/-8.26	-7.86/-9.43	-11.02/-9.56	-6.22/-3.70	-6.11/-7.18	-4.98/-3.56	-5.14/-4.20	-5.28/-3.59	-5.84/-7.03	-0.96/-0.74	-4.64/-6.44	-3.36/-1.33	-0.79/-1.72	-3.76/-3.22	0.95/1.03
Θ(150°)	-5.35/-2.45	-0.85/-0.60	-1.96/-2.65	-2.66/-2.47	-3.06/-4.54	-4.83/-3.70	-3.91/-6.22	-9.86/-15.98	-15.11/-13.55	-12.28/-14.41	-15.16/-12.20	-6.11/-5.65	-4.26/-2.61	-2.62/-3.16	-4.25/-8.05	-8.46/-5.43	-4.34/-5.69	-5.67/-3.13	-1.95/-2.65	-3.14/-1.90	-0.42/-0.36	-2.66/-4.30	-0.56/-1.35	0.61/-2.62
Θ(157.5°)	-3.18/-4.26	-2.46/-1.58	-2.80/-3.32	-3.07/-3.54	-4.86/-7.81	-9.49/-8.80	-7.66/-7.04	-6.25/-5.71	-6.92/-8.96	-11.26/-15.44	-16.10/-11.87	-8.29/-6.68	-6.08/-7.12	-8.22/-7.75	-7.06/-8.40	-10.43/-10.55	-8.23/-8.68	-9.27/-6.11	-3.33/-2.60	-3.28/-3.95	-3.39/-2.80	-1.05/0.23	0.97/1.29	0.22/-2.08
Θ(165°)	-2.82/-2.57	-1.65/-1.19	-1.81/-2.67	-3.95/-5.41	-7.61/-8.94	-11.34/-14.30	-15.37/-15.49	-15.49/-15.36	-15.34/-15.53	-11.83/-10.41	-10.46/-12.88	-16.14/-14.58	-12.75/-9.66	-9.34/-9.85	-10.75/-11.98	-12.98/-10.97	-7.99/-5.77	-3.19/-0.87	0.47/1.00	0.52/-0.45	-0.46/-0.23	0.19/0.67	-0.38/-1.67	-2.74/-2.30
Θ(172.5°)	-12.20/-9.89	-7.33/-6.09	-5.04/-4.64	-5.91/-8.32	-9.38/-9.74	-7.36/-6.32	-5.36/-5.47	-5.17/-5.27	-5.84/-6.67	-7.45/-8.23	-10.74/-13.34	-14.77/-13.31	-11.62/-10.68	-9.93/-9.09	-7.62/-5.40	-3.40/-1.45	0.11/1.20	1.87/2.35	2.43/2.53	2.64/2.88	2.46/2.10	1.46/0.86	-0.08/-1.39	-2.76/-5.48
Θ(180°)	-6.62/-6.67	-5.73/-6.31	-6.30/-6.13	-6.38/-6.45	-5.76/-5.21	-5.13/-5.03	-4.75/-4.50	-4.22/-3.99	-4.61/-5.16	-6.24/-6.06	-5.67/-5.03	-4.33/-3.67	-3.13/-3.03	-3.00/-2.95	-2.56/-2.37	-1.89/-1.12	-0.51/-0.09	0.38/0.87	1.11/1.01	0.92/0.79	0.90/1.13	0.64/0.12	-0.61/-1.36	-2.55/-3.98
Freq(Hz)	6.475/GPol.	Total/Ant. 4	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	3.11/3.47	3.03/3.19	3.38/2.91	2.21/2.71	3.07/3.28	3.56/3.69	3.51/3.46	3.18/2.84	1.68/2.75	2.82/2.82	2.71/2.40	2.22/2.23	2.61/2.94	3.13/3.28	3.37/3.72	4.09/4.38	4.56/4.61	4.71/4.63	4.47/4.63	4.64/4.53	4.21/4.19	4.13/3.80	3.76/3.35	3.01/3.27
Θ(7.5°)	1.44/2.07	2.08/3.27	2.94/2.97	3.48/3.61	4.39/4.65	5.02/4.82	4.93/5.02	4.96/5.15	5.05/4.86	4.59/4.13	3.76/3.68	3.52/3.33	3.29/3.16	3.25/3.24	3.40/3.70	3.91/3.94	3.81/3.66	3.44/3.34	3.07/2.88	2.45/1.67	1.27/1.04	0.91/0.72	0.78/0.56	1.02/1.61
Θ(15°)	-1.23/-0.28	0.48/1.19	1.95/2.50	2.76/3.01	3.60/3.49	3.92/4.32	4.14/4.30	3.67/3.84	2.57/1.97	3.35/3.26	3.09/2.82	2.62/2.39	2.80/3.21	3.47/3.79	4.11/4.25	4.27/4.22	4.19/4.06	3.89/3.71	3.40/2.80	1.87/0.70	-1.39/-1.94	-1.56/-1.29	-0.85/-0.64	
Θ(22.5°)	-4.36/-5.90	-10.59/-5.20	-2.99/-2.46	-2.92/-2.37	-2.06/-1.51	-0.74/-0.29	-0.16/-0.04	0.29/0.59	0.71/1.10	1.18/0.99	0.34/0.29	1.23/2.13	3.19/3.76	4.08/4.16	4.15/3.75	3.57/3.92	4.59/5.09	4.95/4.70	4.51/4.12	3.40/1.80	0.24/-1.09	-2.38/-3.72	-5.24/-4.76	-4.80/-4.42
Θ(30°)	-5.30/-9.84	-11.67/-5.65	-3.65/-2.81	-4.22/-7.19	-12.32/-14.84	-12.90/-9.73	-7.83/-7.18	-5.74/-3.95	-2.78/-2.23	-1.32/-0.58	-0.30/-0.20	-0.21/0.43	1.21/1.88	2.41/2.93	3.48/3.61	3.84/4.04	3.88/3.16	2.28/2.01	1.65/1.06	0.42/0.82	-0.16/-2.53	-5.82/-5.70	-4.57/-5.54	
Θ(37.5°)	-12.24/-15.40	-6.78/-2.51	-2.07/-5.24	-11.01/-11.32	-10.09/-7.65	-5.20/-1.17	-0.42/-1.12	-1.62/-0.66	0.00/-0.11	-0.04/-0.15	-0.79/-1.16	-1.34/-1.76	-0.72/-0.18	-0.80/-0.58	2.09/3.69	3.76/3.11	1.49/-0.08	-0.11/0.50	0.03/-1.71	-4.57/-6.15	-1.63/-1.77	-3.69/-7.67	-10.95/-10.39	
Θ(45°)	-12.14/-11.47	-4.11/-2.03	-5.51/-5.11	-2.43/-1.86	-3.27/-4.05	-3.40/-2.67	-3.66/-3.82	-1.88/-1.20	1.93/0.38	-2.91/-4.68	-2.57/-1.32	-2.41/-2.56	-1.41/-0.31	-0.30/0.76	3.48/2.80	-0.49/-1.62	-0.55/0.05	0.78/1.17	1.18/1.57	1.26/0.13	-1.95/-3.98	-4.42/-3.86	-3.42/-6.40	-9.12/-11.22
Θ(52.5°)	-3.75/-2.38	-1.64/-2.97	-3.06/-2.31	-0.09/-1.56	1.89/-0.25	-4.55/-7.77	-0.98/-7.73	-1.46/3.54	5.00/4.10	1.05/-2.71	-0.82/-0.78	-0.65/0.27	0.49/1.65	2.73/-1.29	-6.59/-2.11	0.11/-0.36	0.14/0.68	-0.44/-0.89	-0.78/-2.11	-3.61/-4.66	-8.50/-9.96	-8.80/-6.07	-6.95/-8.31	
Θ(60°)	-2.50/-3.28	-6.93/-5.35	0.40/0.39	2.26/-4.77	4.85/1.62	-3.88/-2.41	-0.01/0.72	2.20/3.57	4.82/2.95	1.48/0.40	1.27/-0.96	-4.09/0.06	-0.95/-3.32	0.87/1.95	-0.10/-1.94	-1.25/-1.92	2.57/0.25	-1.75/-3.55	-3.66/-3.00	-0.61/0.60	-0.02/-1.67	-6.73/-7.51	-7.07/-6.89	-7.25/-5.66
Θ(67.5°)	-3.52/-3.40	-4.24/-2.74	0.82/-2.78	-0.18/4.81	5.07/1.63	-1.10/1.21	3.78/4.20	4.08/3.84	3.52/3.46	2.79/1.94	1.09/-2.07	-3.02/0.57	-2.42/-5.72	1.46/-0.92	-4.85/-0.27	-1.13/1.25	-0.15/-1.66	-1.64/-2.05	-1.29/-0.04	-0.41/-1.09	-0.24/0.34	-3.16/-9.94	-5.73/-1.79	-6.15/-8.94
Θ(75°)	-6.53/-7.11	-3.16/-3.18	-2.99/-5.26	-1.62/0.49	3.69/1.58	0.82/3.10	4.50/4.41	2.86/0.79	1.27/1.88	-0.48/0.12	0.93/-1.26	-1.45/-1.98	-2.96/-1.06	2.55/-3.47	-2.27/-0.11	-1.43/0.48	0.96/0.84	1.49/1.09	0.65/0.87	0.91/0.66	-3.42/-4.15	-2.48/-3.33	-3.68/-3.74	
Θ(82.5°)	-4.05/-9.07	-3.81/-1.28	-1.24/0.12	-0.16/0.85	-1.20/-0.17	-13.43/-9.88	-0.36/-2.69	0.16/3.05	2.49/3.53	-5.15/-3.32	-4.40/-1.79	0.39/1.75	-5.35/-0.07	-1.42/-3.16	0.68/-0.20	-1.37/-2.82	-1.50/-1.82	-0.44/0.80	0.14/1.00	-0.40/1.24	3.81/1.36	-1.06/-2.18	-1.12/-1.41	
Θ(90°)	-6.69/-7.40	-2.24/-0.03	-0.74/-1.98	-0.03/-2.13	-5.06/0.41	0.90/1.23	0.03/-4.37	-2.71/0.62	0.83/-3.04	-4.96/-1.49	-2.80/-1.72	-4.78/-1.78	-3.19/0.37	0.44/-0.04	1.40/-1.83	-5.60/-4.55	-0.94/-0.05	-0.83/1.38	-1.38/0.83	0.01/1.46	5.04/2.10	-1.64/0.58	-4.84/-3.18	0.27/-4.11
Θ(97.5°)	-5.36/-5.11	-6.12/0.11	-1.88/-6.14	-0.48/-2.31	-6.86/-5.85	-2.62/-1.27	-2.91/-3.43	-2.67/-0.58	-1.58/-5.75	-10.74/-10.76	-4.25/-0.19	-2.24/-3.80	-2.24/-1.27	-0.05/-1.76	0.83/-1.17	-2.64/-1.95	0.58/-5.46	-1.61/-1.97	-2.53/-2.34	-3.61/-1.77	2.85/1.73	-1.55/-5.03	-3.04/-1.82	-3.10/-3.41
Θ(105°)	-3.24/-5.09	-6.60/-4.30	-2.77/-4.72	-4.89/-7.54	-13.43/-9.88	-3.34/-0.73	-1.07/-5.69	-5.80/-2.08	-3.65/-9.97	-9.75/-10.28	-15.37/-10.91	-10.95/-5.17	-3.75/-3.33	-5.09/0.64	-0.84/-2.99	-3.34/1.68	1.20/-1.88	-0.47/3.87	2.47/3.38	0.97/4.75	-0.48/0.13	-0.42/-2.02	-2.70/-1.15	1.55/-1.70
Θ(112.5°)	-11.60/-9.20	-7.61/-12.78	-4.13/-3.04	-5.53/-4.51	-5.60/-11.43	-7.61/-2.72	-0.95/-2.00	-3.30/-3.29	-5.16/-11.81	-4.41/-7.75	-9.47/-10.74	-11.25/-8.58	-3.18/-6.71	-1.10/-1.21	-4.32/-3.41	-0.42/2.85	3.39/0.54	-0.60/3.62	2.97/2.68	0.61/-4.73	-1.09/-1.23	-0.62/-1.91	-0.69/-6.27	-1.99/-3.47
Θ(120°)	-1.56/-3.00	-1.77/-3.67	-4.92/-3.04	-1.47/-5.09	-8.03/-5.76	-3.81/-3.09	-2.47/-3.80	-6.46/-8.13	-8.16/-4.67	-1.74/-0.29	-3.90/-3.23	-6.27/-9.54	-1.92/-2.89	1.71/1.09	-2.35/-5.25	-3.76/0.66	3.34/-0.61	-3.71/-1.63	2.35/-3.79	-2.27/-1.98	-2.62/-2.09	-0.72/-6.85	-3.33/-4.88	0.66/-1.18
Θ(127.5°)	1.03/-4.92	-1.85/0.99	-7.48/-6.30	-1.14/-1.43	-4.44/-8.42	-4.99/-4.00	-2.17/-2.03	-3.80/-5.05	-6.71/-6.52	-1.68/-5.12	-4.97/-3.21	-7.27/-4.43	-2.63/-1.83	1.09/-0.59	-6.22/-2.18	-11.43/-1.57	1.59/-0.10	0.08/-0.43	4.96/-0.95	-2.13/-1.26	0.78/1.96	0.19/-4.63	-5.25/-0.23	-8.87/-1.09
Θ(135°)	-2.66/-4.02	-8.62/-7.88	-9.71/-10.47	-3.18/-3.95	-7.98/-10.62	-7.73/-4.13	-2.16/-2.77	-6.07/-6.68	-4.53/-2.68	-5.88/-13.02	-11.88/-14.24	-16.71/-12.45	-9.64/-9.00	-4.64/-4.38	-8.54/-10.07	-6.26/-0.49	-2.57/1.57	0.12/-2.29	3.18/1.04	-10.53/-10.28	-3.43/-3.30	-0.12/-6.65	-8.01/-14.41	-2.32/0.82
Θ(142.5°)	-0.21/-6.24	-2.80/-3.15	-4.23/-5.56	-6.06/-4.34	-5.65/-6.85	-7.63/-9.36	-8.83/-7.81	-10.52/-13.23	-7.64/-6.46	-9.36/-10.02	-7.88/-5.86	-5.24/-7.40	-5.38/-5.61	-3.72/-3.38	-1.76/-0.24	-0.95/-3.38	-3.08/0.28	-0.97/-2.80	0.77/0.04	-3.16/-3.26	-1.61/-3.17	-2.35/0.51	0.27/-2.32	-3.44/-1.39
Θ(150°)	-6.47/-6.69	-8.93/-6.02	0.80/-1.55	-4.71/-5.50	-4.48/-5.25	-7.09/-7.02	-5.95/-5.36	-5.26/-7.39	-10.83/-11.34	-12.11/-7.78	-6.27/-6.39	-4.13/-3.83	-5.02/-3.45	-0.60/1.67	1.51/-2.10	-8.91/-7.82	-4.85/-5.25	-6.17/-5.19	-1.18/-0.39	-1.81/-1.62	-0.52/-1.16	0.74/1.38	2.74/0.94	-3.30/-3.82
Θ(157.5°)	-7.89/-6.72	-2.06/0.00	-0.24/-1.12	-2.97/-5.41	-7.05/-8.41	-8.45/-9.48	-10.72/-11.47	-10.61/-9.42	-7.69/-6.10	-5.77/-8.25	-10.75/-7.58	-6.72/-7.07	-7.31/-7.26	-5.98/-5.68	-5.04/-3.97	-4.10/-4.48	-3.74/-5.46	-14.09/-8.29	-3.32/-2.78	-4.88/-6.30	-3.10/-0.16	0.58/-0.14	-1.55/-1.16	-0.95/-4.31
Θ(165°)	-2.95/-3.50	-2.06/-2.05	-3.07/-3.99	-3.95/-5.30	-5.87/-4.41	-3.15/-2.79	-2.57/-3.25	-3.14/-4.12	-6.33/-9.47	-12.35/-13.70	-12.84/-15.51	-11.73/-9.11	-7.73/-8.17	-8.22/-5.83	-3.27/-3.24	-5.08/-4.67	-11.16/-6.94	-2.05/1.21	2.80/3.08	2.17/0.89	0			

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



