



Antenna Pattern of 2.4GHz

Appendix D

Θ(22.5°)	-5.11/-5.99	-6.92/-7.47	-7.70/-7.74	-7.84/-7.82	-7.80/-8.01	-8.46/-9.36	-10.18/-12.01	-13.60/-15.01	-15.74/-15.94	-12.94/-10.68	-9.42/-8.55	-8.04/-7.81	-7.86/-6.99	-8.39/-8.60	-8.63/-8.54	-8.38/-8.35	-8.38/-8.40	-8.39/-8.43	-8.42/-8.24	-7.78/-7.07	-6.23/-5.38	-4.67/-4.20	-3.91/-3.89	-4.04/-4.44
Θ(30°)	-4.73/-5.46	-6.44/-7.50	-8.51/-8.96	-9.12/-8.79	-8.44/-8.26	-8.43/-8.65	-9.19/-10.11	-11.33/-12.74	-13.74/-14.43	-14.62/-12.58	-10.52/-8.61	-7.83/-7.21	-6.98/-6.99	-7.19/-7.45	-7.74/-7.88	-7.79/-7.72	-7.59/-7.24	-6.80/-6.61	-6.67/-6.68	-6.70/-6.60	-6.47/-6.13	-5.53/-4.83	-4.23/-3.81	-3.74/-4.02
Θ(142.5°)	-4.58/-4.80	-5.44/-6.50	-8.06/-9.40	-10.02/-9.73	-8.85/-8.06	-7.49/-6.99	-6.83/-7.00	-7.42/-7.98	-8.75/-9.70	-10.22/-10.58	-9.67/-8.17	-6.88/-6.12	-5.63/-5.85	-6.07/-6.65	-7.44/-8.05	-8.21/-7.95	-7.34/-6.55	-5.71/-5.11	-4.81/-4.67	-4.81/-5.26	-5.97/-6.63	-6.79/-6.36	-5.71/-5.12	-4.64/-4.48
Θ(45°)	-5.77/-5.17	-5.24/-6.07	-7.49/-9.15	-10.50/-10.51	-8.61/-8.57	-7.61/-6.66	-5.93/-5.48	-5.25/-5.31	-6.72/-6.38	-7.18/-7.99	-8.39/-8.01	-7.22/-6.74	-6.58/-6.57	-6.84/-7.63	-8.93/-9.87	-9.66/-8.61	-7.57/-6.61	-5.56/-4.71	-4.21/-3.98	-3.95/-4.12	-4.64/-5.45	-6.35/-7.20	-7.84/-8.05	-7.49/-6.57
Θ(52.5°)	-6.78/-5.55	-4.92/-5.19	-6.16/-6.70	-8.98/-9.43	-9.27/-9.16	-9.08/-8.40	-7.22/-6.04	-5.12/-4.69	-4.77/-5.32	-6.20/-7.28	-8.23/-8.38	-8.22/-8.30	-8.23/-8.73	-7.71/-8.43	-9.85/-10.48	-9.53/-8.62	-7.19/-6.14	-5.24/-4.76	-4.49/-4.21	-3.93/-3.76	-3.73/-3.97	-4.59/-5.62	-7.03/-8.44	-8.57/-9.93
Θ(60°)	-4.65/-3.73	-3.16/-3.20	-3.88/-5.01	-5.94/-6.04	-6.69/-5.51	-5.48/-5.07	-4.09/-3.14	-2.43/-2.08	-2.11/-2.62	-3.55/-4.81	-5.96/-6.48	-6.68/-7.05	-6.97/-6.22	-5.81/-6.39	-7.86/-9.27	-9.37/-8.26	-6.77/-5.02	-4.24/-4.07	-3.86/-3.55	-3.27/-3.03	-2.84/-2.86	-3.19/-3.85	-4.70/-5.65	-6.25/-6.74
Θ(67.5°)	-4.93/-3.61	-3.02/-2.97	-3.43/-4.20	-4.67/-4.62	-4.26/-3.84	-3.41/-2.86	-2.03/-1.26	-0.74/-0.50	-0.41/-0.59	-1.07/-1.80	-2.51/-3.23	-4.13/-4.93	-4.94/-4.30	-4.03/-4.52	-5.61/-7.29	-9.10/-8.03	-5.06/-3.20	-2.37/-1.99	-2.04/-2.36	-2.73/-3.08	-3.63/-4.40	-5.23/-6.11	-6.97/-7.73	-8.06/-6.77
Θ(75°)	-8.82/-6.22	-5.05/-4.79	-4.78/-4.61	-4.10/-3.27	-2.51/-1.63	-1.09/-0.85	-0.66/-0.56	-0.65/-0.93	-1.33/-1.50	-1.53/-1.56	-1.68/-2.14	-3.26/-4.32	-4.76/-4.53	-4.34/-4.11	-4.28/-5.25	-6.04/-4.97	-3.04/-1.65	-0.71/-0.29	-0.50/-1.25	-2.32/-3.78	-5.51/-7.32	-9.14/-10.70	-12.55/-13.60	-14.27/-12.56
Θ(82.5°)	-11.20/-9.06	-7.47/-6.95	-6.77/-5.77	-4.14/-2.60	-0.93/-0.21	0.350/-0.44	0.310/-0.13	-0.07/-0.41	-0.80/-1.37	-1.81/-2.01	-2.22/-2.82	-3.47/-3.59	-3.34/-3.52	-3.81/-3.81	-4.68/-6.19	-5.74/-3.76	-2.17/-0.81	0.160/-0.55	0.39/-0.18	-0.98/-1.86	-2.85/-4.03	-5.30/-6.72	-9.22/-13.10	-13.38/-13.07
Θ(90°)	-9.33/-9.82	-10.00/-9.74	-10.43/-9.34	-6.27/-4.08	-2.61/-1.36	-0.50/-0.02	0.120/-0.07	-0.11/-0.60	-1.48/-2.39	-2.77/-2.90	-3.30/-3.88	-3.69/-2.93	-2.58/-2.68	-2.36/-2.15	-3.04/-3.94	-3.07/-1.61	-0.171/-0.30	2.112/-1.5	1.761/-3.5	1.211/-1.1	0.58/-0.48	-1.85/-3.32	-5.41/-8.82	-11.06/-9.84
Θ(97.5°)	-5.86/-6.65	-8.87/-10.21	-10.95/-9.33	-6.26/-3.80	-2.46/-1.71	-1.16/-0.61	-0.15/-0.01	-0.37/-1.31	-2.69/-3.78	-4.17/-4.80	-5.64/-5.02	-3.68/-2.95	-2.90/-2.47	-1.40/-1.23	-2.04/-2.52	-2.04/-1.10	0.411/-0.72	2.081/-1.76	1.200/-7.8	0.720/-7.2	0.23/-1.01	-2.83/-4.68	-6.66/-9.16	-9.35/-12.03
Θ(105°)	-6.19/-6.10	-8.41/-12.19	-13.29/-12.14	-7.86/-5.05	-2.74/-1.42	-1.08/-1.25	-1.49/-2.02	-2.61/-2.96	-2.27/-1.39	-1.02/-1.50	-1.88/-1.60	-1.66/-2.40	-2.90/-1.74	-0.40/-0.16	-0.54/-0.99	-1.42/-1.42	-0.83/-0.35	-0.48/-0.87	-1.40/-1.75	-1.72/-1.60	-1.86/-2.55	-3.73/-5.59	-8.95/-12.84	-12.10/-8.63
Θ(112.5°)	-8.14/-6.71	-7.81/-10.04	-11.94/-10.54	-9.51/-7.69	-4.88/-2.40	-1.31/-1.39	-2.20/-3.20	-3.86/-2.84	-1.33/-0.35	-0.27/-0.77	-0.97/-0.89	-1.33/-1.89	-1.410/-2.3	1.040/-6.9	-0.30/-1.79	-3.17/-3.50	-3.12/-3.34	-3.79/-4.43	-6.46/-9.21	-10.83/-9.74	-7.98/-6.49	-6.07/-7.50	-10.69/-15.79	-15.01/-10.92
Θ(120°)	-5.41/-4.75	-5.45/-7.46	-8.66/-9.61	-6.04/-6.46	-7.47/-7.09	-5.72/-4.92	-4.80/-4.57	-3.67/-2.70	-2.20/-2.37	-3.07/-3.76	-3.82/-3.48	-3.17/-2.45	-0.880/-0.57	0.890/-0.2	-1.78/-2.40	-4.83/-2.54	-0.89/-0.39	-0.36/-0.90	-2.34/-4.32	-5.66/-5.70	-5.80/-6.11	-6.35/-7.39	-10.54/-12.12	-8.73/-6.53
Θ(127.5°)	-0.72/-0.58	-1.33/-3.13	-6.27/-8.89	-8.62/-7.78	-7.84/-8.30	-7.80/-6.27	-4.99/-4.28	-4.05/-4.61	-6.28/-8.16	-7.97/-6.36	-4.93/-3.62	-2.79/-1.42	-0.250/-2.9	-0.15/-1.48	-3.27/-4.09	-2.54/-2.62	0.450/-0.5	0.36/-0.38	-1.86/-4.04	-6.19/-7.09	-7.53/-8.06	-8.54/-9.52	-10.78/-8.25	-4.56/-2.45
Θ(135°)	-0.89/-0.83	-1.48/-2.97	-5.99/-9.31	-7.30/-4.34	-3.09/-3.00	-3.34/-3.60	-3.79/-4.15	-4.76/-5.59	-6.05/-5.13	-3.67/-2.70	-2.16/-1.61	-0.93/-0.42	-0.38/-0.88	-2.10/-3.90	-5.30/-4.00	-1.310/-4.8	1.051/-0.9	0.69/-0.01	-1.26/-3.30	-6.13/-9.24	-12.03/-14.44	-15.29/-15.08	-13.68/-8.65	-5.01/-2.87
Θ(142.5°)	-3.43/-4.32	-4.22/-6.04	-9.92/-12.55	-8.09/-3.98	-2.13/-1.57	-1.75/-2.25	-2.93/-3.60	-3.89/-3.64	-2.98/-2.18	-3.76/-4.14	-1.61/-1.68	-1.64/-1.99	-2.64/-3.94	-5.69/-7.07	-6.12/-3.21	-1.070/-2.1	1.040/-9.9	0.55/-0.10	-1.14/-2.54	-4.04/-5.56	-6.57/-7.31	-8.11/-9.17	-7.87/-7.75	-6.78/-5.23
Θ(150°)	-3.43/-3.57	-4.24/-5.54	-7.11/-12.28	-13.83/-10.15	-5.66/-4.64	-3.76/-3.39	-3.24/-3.24	-3.24/-3.22	-3.25/-3.45	-3.72/-4.17	-4.74/-5.23	-1.63/-6.18	-7.07/-7.53	-4.82/-3.34	-1.920/-2.1	0.662/-3.7	2.610/-2.9	1.790/-0.1	-1.071/-2.31	-3.46/-4.34	-4.95/-5.42	-5.45/-6.53	-6.94/-6.77	-5.85/-5.06
Θ(157.5°)	-3.58/-3.28	-3.38/-3.87	-4.81/-6.40	-8.97/-12.46	-12.21/-9.89	-7.52/-6.06	-5.32/-5.03	-5.06/-5.30	-5.81/-6.54	-7.16/-7.55	-7.74/-7.71	-7.63/-6.69	-6.18/-6.64	-4.60/-3.12	-1.55/-0.26	0.600/-9.0	0.670/-0.1	-0.98/-2.33	-4.07/-5.91	-7.57/-8.81	-9.71/-10.36	-10.65/-10.32	-9.33/-8.04	-6.59/-5.64
Θ(165°)	-5.09/-4.64	-4.44/-4.52	-4.91/-5.60	-6.70/-8.19	-9.23/-9.25	-8.70/-8.09	-7.69/-7.70	-8.04/-8.35	-8.56/-8.88	-9.21/-9.33	-9.38/-9.42	-9.44/-9.21	-8.69/-7.56	-6.32/-5.07	-3.92/-3.07	-2.73/-2.97	-3.59/-4.68	-6.49/-9.27	-13.39/-14.50	-15.88/-15.45	-14.70/-12.85	-11.71/-10.46	-9.52/-8.85	-7.75/-6.80
Θ(172.5°)	-7.55/-7.18	-6.08/-6.71	-6.68/-6.72	-7.03/-7.43	-7.39/-6.95	-6.55/-6.17	-5.76/-5.61	-5.83/-6.17	-6.49/-7.04	-7.78/-8.46	-9.00/-9.40	-8.69/-10.40	-10.32/-10.00	-9.57/-9.05	-8.54/-8.36	-8.69/-9.74	-11.45/-14.39	-16.38/-15.67	-12.60/-10.32	-9.36/-9.01	-8.89/-8.39	-8.06/-7.97	-7.94/-7.92	-7.56/-7.50
Θ(180°)	-8.69/-8.92	-9.08/-9.08	-8.85/-8.54	-8.33/-7.98	-7.28/-6.54	-6.00/-5.60	-5.18/-4.93	-5.04/-5.28	-5.61/-6.12	-6.86/-7.66	-8.36/-8.90	-9.32/-9.67	-9.98/-10.21	-10.55/-10.74	-10.79/-10.76	-10.75/-10.52	-9.65/-8.65	-5.85/-6.52	-7.69/-7.91	-7.69/-7.91	-7.69/-7.91	-8.06/-8.25	-8.34/-8.17	
Freq(Hz)	2.4835GPol.	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°)	-3.19/-2.96	-2.85/-2.23	-2.94/-3.10	-3.33/-3.67	-4.08/-4.49	-4.79/-5.08	-5.36/-5.65	-5.81/-5.83	-5.45/-4.79	-4.07/-4.32	-2.84/-2.36	-2.07/-1.92	-1.96/-2.11	-2.38/-2.76	-3.26/-3.81	-4.48/-5.15	-5.75/-6.20	-6.58/-6.93	-6.63/-6.12	-6.59/-6.56	-6.37/-5.86	-5.33/-4.82	-4.37/-3.91	-3.60/-3.42
Θ(7.5°)	-3.17/-2.96	-2.72/-2.64	-2.84/-3.11	-3.42/-3.87	-4.47/-5.03	-5.39/-5.89	-6.41/-6.85	-7.04/-6.89	-6.42/-3.84	-3.05/-2.43	-1.91/-4.86	-1.98/-2.18	-2.59/-3.07	-6.40/-6.50	-5.86/-6.15	-4.84/-5.50	-5.86/-6.15	-4.94/-6.60	-6.33/-6.12	-6.15/-6.04	-5.99/-4.59	-4.18/-3.76	-3.44/-3.24	
Θ(15°)	-3.97/-3.77	-3.46/-3.19	-3.25/-3.53	-3.93/-4.39	-4.97/-5.56	-6.13/-6.80	-7.67/-8.50	-8.97/-8.99	-8.46/-7.53	-6.41/-5.32	-4.27/-3.45	-2.94/-2.85	-2.97/-3.44	-3.81/-4.46	-5.16/-5.76	-6.22/-6.54	-6.67/-6.79	-6.93/-7.04	-6.94/-6.69	-6.45/-6.27	-6.02/-6.56	-5.29/-5.01	-4.78/-4.53	-4.36/-4.22
Θ(22.5°)	-5.27/-5.11	-4.76/-4.36	-4.19/-4.32	-4.43/-4.67	-5.13/-5.77	-6.79/-7.88	-9.02/-10.08	-10.86/-11.10	-10.79/-9.74	-8.10/-4.66	-5.09/-4.23	-3.99/-4.18	-4.47/-5.01	-5.80/-6.67	-7.44/-8.00	-8.29/-8.33	-8.25/-8.21	-8.16/-7.95	-7.62/-7.30	-6.94/-6.54	-6.08/-5.55	-5.20/-5.04	-5.03/-5.11	-5.22/-5.31
Θ(30°)	-5.54/-5.55	-5.39/-5.19	-5.09/-5.00	-4.97/-5.00	-5.19/-5.70	-6.46/-7.37	-9.23/-9.07	-9.73/-10.09	-9.74/-9.94	-8.94/-7.63	-6.43/-5.64	-5.46/-4.47	-5.84/-6.41	-7.11/-7.74	-8.32/-8.72	-8.86/-8.60	-8.19/-7.85	-7.36/-6.79	-6.50/-6.46	-6.44/-6.32	-6.15/-5.97	-5.71/-5.47	-5.34/-5.27	-5.25/-5.39
Θ(37.5°)	-5.15/-5.09	-5.23/-5.55	-5.74/-6.04	-5.99/-5.79	-5.61/-5.62	-5.77/-5.99	-6.34/-6.70	-6.97/-7.16	-7.31/-7.33	-7.23/-6.92	-6.46/-5.98	-5.68/-5.59	-5.75/-6.09	-6.50/-7.02	-7.76/-8.56	-8.84/-8.31	-7.29/-6.23	-5.21/-4.41	-4.06/-4.07	-4.33/-4.78	-5.40/-6.10	-6.55/-6.58	-8.30/-5.89	-5.49/-5.24
Θ(45°)	-5.22/-4.90	-5.21/-6.08	-7.25/-8.14	-8.25/-7.61	-6.96/-6.40	-5.99/-5.49	-5.12/-4.84	-4.67/-4.64	-4.62/-5.10	-5.39/-5.57	-5.77/-5.63	-5.44/-5.46	-5.84/-6.38	-6.97/-9.33	-9.34/-10.69	-10.45/-8.76	-6.87/-6.54	-4.33/-3.39	-2.86/-2.82	-3.07/-3.60	-4.44/-5.47	-6.59/-7.36	-7.57/-7.34	-6.63/-5.84
Θ(52.5°)	-5.82/-4.99	-4.98/-5.89	-7.41/-8.92	-9.45/-8.88	-8.49/-8.39	-8.10/-7.14	-5.93/-4.78	-3.94/-3.61	-3.66/-5.05	-4.63/-5.05	-5.53/-5.53	-5.51/-5.98	-6.89/-7.60	-8.11/-9.33	-11.48/-12.35	-10.82/-8.58	-6.90/-5.66	-4.51/-3.69	-3.32/-3.17	-3.16/-3.42	-3.99/-4.81	-5.70/-6.64	-7.85/-8.76	-8.31/-6.92
Θ(60°)	-4.18/-3.16	-2.82/-3.24	-4.31/-5.64	-6.50/-6.55	-6.70/-7.15	-7.11/-5.77	-4.12/-2.70	-1.70/-1.29	-1.43/-2.15	-3.34/-4.73	-5.57/-5.92	-5.75/-6.29	-6.96/-6.79	-6.67/-7.49	-9.43/-10.37	-9.69/-8.63	-6.58/-4.89	-4.10/-3.97	-3.89/-3.49	-3.05/-2.90	-3.00/-3.38	-3.93/-4.61	-5.59/-6.75	-6.91/-5.56
Θ(67.5°)	-3.36/-2.09	-1.65/-1.90	-2.65/-3.32	-4.00/-4.11	-4.29/-4.58	-4.47/-3.39	-1.93/-0.72	0.110/-0.6	0.640/-2.2	-0.64/-1.75	-2.71/-3.01	-3.55/-4.61	-4.94/-4.55	-4.41/-5.07	-6.27/-5.88	-8.99/-7.95	-5.19/-3.55	-3.22/-3.47	-3.57/-3.67	-3.76/-3.82	-3.94/-4.41	-5.33/-6.17	-6.85/-7.96	-7.32/-8.27
Θ(75°)	-6.44/-4.09	-3.20/-3.31	-3.72/-3.74	-2.36/-2.73	-2.33/-2.08	-2.05/-1.94	-1.45/-0.91	-0.50/-2.03	-0.03/-0.03	-0.23/-0.51	-0.74/-0.97	-4.30/-4.35	-4.33/-4.32	-4.12/-4.58	-5.17/-4.41	-2.90/-1.81	-1.27/-1.17	-1.52/-2.40	-3.58/-5.03	-6.49/-7.75	-9.12/-10			



Θ(67.5°)	-8.30/-5.54	-4.20/-3.22	-2.49/-1.74	-0.82/0.21	1.05/1.37	1.18/0.96	1.00/1.40	1.88/2.22	2.18/1.57	0.63/-0.25	-1.26/-2.70	-4.73/-8.44	-13.44/-11.09	-7.24/-5.14	-3.34/-1.62	-0.07/0.99	1.66/1.94	1.63/0.93	0.27/-0.12	-0.40/-1.01	-2.12/-3.50	-4.94/-6.46	-8.33/-11.27	-14.72/-14.15
Θ(75°)	-11.07/-7.97	-5.99/-4.69	-3.47/-2.31	-1.04/0.40	1.56/2.22	2.53/2.72	2.81/2.72	2.47/2.10	1.58/0.82	-0.01/-0.58	-1.11/-2.08	-3.99/-7.30	-9.61/-8.13	-6.48/-5.03	-3.30/-1.62	-0.35/0.51	1.14/1.49	1.65/1.72	1.83/1.72	1.21/0.20	-1.29/-3.15	-5.20/-7.33	-10.01/-13.14	-15.24/-14.98
Θ(82.5°)	-10.67/-8.18	-6.30/-4.27	-2.21/-0.38	1.29/2.59	3.17/3.03	2.65/2.66	2.83/2.79	2.52/2.22	1.85/1.22	0.65/0.26	-0.40/-1.93	-4.65/-8.76	-9.10/-5.88	-3.67/-2.36	-1.54/-1.14	-0.82/-0.21	0.64/1.64	2.71/3.49	3.76/3.44	2.67/1.61	0.23/-1.54	-3.60/-5.82	-8.68/-12.31	-15.27/-14.53
Θ(90°)	-8.77/-9.94	-11.13/-9.81	-5.84/-2.30	0.41/2.39	3.30/2.96	1.65/0.08	-0.93/-1.21	-0.84/-0.06	0.67/0.90	0.87/0.67	-0.01/-1.52	-4.03/-7.42	-7.71/-4.86	-3.19/-2.91	-3.45/-4.15	-4.05/-3.05	-1.47/0.38	1.87/2.65	2.91/2.93	2.86/2.63	2.01/0.74	-1.13/-3.14	-5.13/-6.69	-7.74/-8.50
Θ(97.5°)	-8.78/-8.67	-10.14/-9.82	-6.73/-3.43	-0.70/1.62	2.88/3.05	2.44/1.57	0.80/0.38	0.31/0.51	0.69/0.56	0.22/-0.34	-1.22/-2.78	-5.28/-8.55	-8.07/-5.76	-4.97/-5.11	-4.92/-3.81	-2.44/-1.29	-0.09/1.06	1.65/1.87	2.14/2.57	2.87/2.78	1.95/0.37	-1.84/-4.31	-6.69/-8.23	-8.57/-8.51
Θ(105°)	-9.91/-8.97	-7.37/-6.64	-5.32/-3.61	-1.82/0.27	1.70/2.15	1.82/1.28	0.91/0.63	0.43/0.22	-0.27/-1.16	-2.34/-3.20	-3.68/-4.89	-7.32/-8.88	-7.27/-5.86	-5.35/-5.07	-4.60/-3.58	-2.50/-1.63	-0.51/0.50	1.16/1.55	1.94/2.29	2.38/1.94	0.91/-0.53	-2.19/-4.03	-6.40/-8.35	-9.34/-9.68
Θ(112.5°)	-10.40/-8.72	-6.53/-5.73	-5.26/-4.62	-3.88/-2.01	-0.15/0.62	0.21/-0.74	-1.27/-0.94	-0.03/0.58	0.37/-0.70	-1.73/-1.82	-1.89/-3.13	-4.66/-4.38	-3.55/-3.29	-3.51/-4.38	-5.29/-4.74	-3.42/-1.87	-0.27/0.60	0.54/-0.01	-0.50/-0.64	-0.42/-0.10	-0.25/-1.35	-3.09/-4.82	-6.48/-7.77	-8.75/-9.92
Θ(120°)	-11.28/-11.68	-8.95/-7.10	-5.65/-4.73	-4.65/-4.31	-2.76/-1.23	-0.56/-0.41	-0.16/0.35	0.85/0.77	-0.21/-1.70	-2.68/-2.87	-3.52/-5.16	-5.91/-4.73	-3.90/-3.70	-4.27/-6.07	-7.38/-5.35	-2.68/-0.37	1.33/1.95	1.83/1.61	1.62/1.63	1.66/1.63	1.12/-0.35	-2.96/-5.92	-8.31/-9.44	-9.87/-10.87
Θ(127.5°)	-6.85/-7.79	-8.42/-7.55	-6.73/-5.96	-5.71/-5.86	-4.66/-2.24	-0.09/1.20	1.65/1.43	0.55/-0.97	-3.09/-4.44	-4.21/-4.18	-5.18/-5.66	-4.54/-3.51	-3.32/-3.45	-4.01/-5.28	-5.93/-4.68	-2.42/-0.05	1.70/2.46	2.60/2.55	2.44/1.95	1.18/0.25	-0.89/-2.79	-5.57/-8.13	-9.30/-8.86	-7.72/-7.07
Θ(135°)	-7.71/-8.29	-7.47/-5.63	-4.23/-3.29	-2.66/-2.76	-3.60/-3.69	-2.42/-1.04	-0.68/-1.37	-3.09/-5.02	-5.88/-5.56	-5.33/-5.32	-5.12/-4.35	-3.36/-2.73	-2.63/-2.73	-3.04/-3.96	-5.49/-6.76	-5.95/-3.11	-0.89/0.09	0.43/0.56	0.44/-0.22	-1.34/-2.65	-3.84/-4.95	-6.06/-7.73	-10.93/-13.55	-11.08/-8.78
Θ(142.5°)	-7.56/-7.55	-6.56/-4.54	-2.60/-1.11	-0.08/0.38	0.04/-0.88	-1.88/-2.44	-2.53/-2.39	-2.00/-1.62	-1.63/-2.40	-3.97/-5.90	-7.05/-6.87	-6.24/-5.89	-5.99/-6.31	-6.83/-7.82	-8.58/-7.41	-4.61/-2.14	-0.53/0.28	0.73/0.98	1.06/0.87	0.54/0.09	-0.30/-0.74	-1.44/-2.67	-4.48/-6.47	-7.65/-7.72
Θ(150°)	-6.60/-6.74	-6.38/-5.26	-3.69/-2.22	-1.04/-0.15	0.24/0.23	-0.15/-0.48	-0.69/-0.67	-0.70/-0.79	-1.26/-2.19	-3.50/-4.90	-6.17/-7.07	-7.41/-7.38	-7.34/-7.47	-7.56/-7.30	-6.16/-4.46	-2.72/-1.39	-0.49/-0.05	0.07/0.06	0.02/-0.06	-0.22/-0.36	-0.47/-0.75	-1.29/-2.09	-3.20/-4.39	-5.52/-6.30
Θ(157.5°)	-11.15/-10.80	-9.99/-8.73	-7.21/-5.71	-4.47/-3.36	-2.43/-1.94	-1.85/-2.05	-2.44/-2.94	-3.42/-3.91	-4.39/-4.87	-5.31/-5.72	-6.12/-6.41	-6.59/-6.62	-6.60/-6.45	-6.26/-6.48	-6.09/-5.41	-4.70/-4.19	-3.91/-3.97	-4.36/-4.96	-5.38/-5.67	-5.65/-5.51	-5.54/-5.77	-6.24/-6.82	-7.53/-8.44	-9.71/-10.95
Θ(165°)	-14.50/-13.21	-10.71/-9.11	-7.94/-7.03	-6.44/-5.94	-5.49/-5.10	-5.13/-5.55	-6.28/-6.92	-7.63/-7.96	-8.25/-8.40	-8.74/-9.01	-9.72/-10.43	-11.58/-11.92	-12.01/-11.78	-11.50/-11.39	-12.40/-12.76	-12.96/-13.47	-13.80/-15.45	-15.13/-14.57	-14.73/-14.41	-13.98/-13.60	-13.76/-14.12	-14.36/-14.63	-15.02/-15.99	-15.30/-15.85
Θ(172.5°)	-7.52/-7.20	-6.46/-5.68	-5.04/-4.62	-4.33/-4.10	-3.78/-3.37	-3.04/-2.92	-2.89/-3.03	-3.46/-4.03	-4.70/-5.39	-6.22/-7.16	-8.22/-9.29	-10.38/-11.54	-12.66/-13.68	-14.43/-14.57	-14.42/-13.81	-13.05/-12.33	-11.40/-10.32	-9.13/-8.03	-7.30/-6.81	-6.79/-7.04	-7.26/-7.29	-7.24/-7.30	-7.38/-7.48	-7.73/-7.94
Θ(180°)	-5.82/-5.74	-5.58/-5.15	-4.78/-4.48	-4.29/-4.11	-3.78/-3.32	-2.87/-2.58	-2.37/-2.35	-2.58/-2.85	-3.16/-3.50	-3.89/-4.33	-4.79/-5.23	-5.66/-6.10	-6.55/-6.91	-7.13/-7.13	-6.81/-6.35	-5.81/-5.33	-4.81/-4.27	-3.72/-3.22	-2.88/-2.79	-3.01/-3.39	-3.73/-3.85	-3.91/-4.12	-4.48/-4.82	-5.26/-5.72

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



