

## Exhibit F – Receive and Transmit Gain Plots and Tables

### Plot Notes:

Blue trace is co-polarization antenna gain plot

Brown trace is cross-polarization antenna gain plot

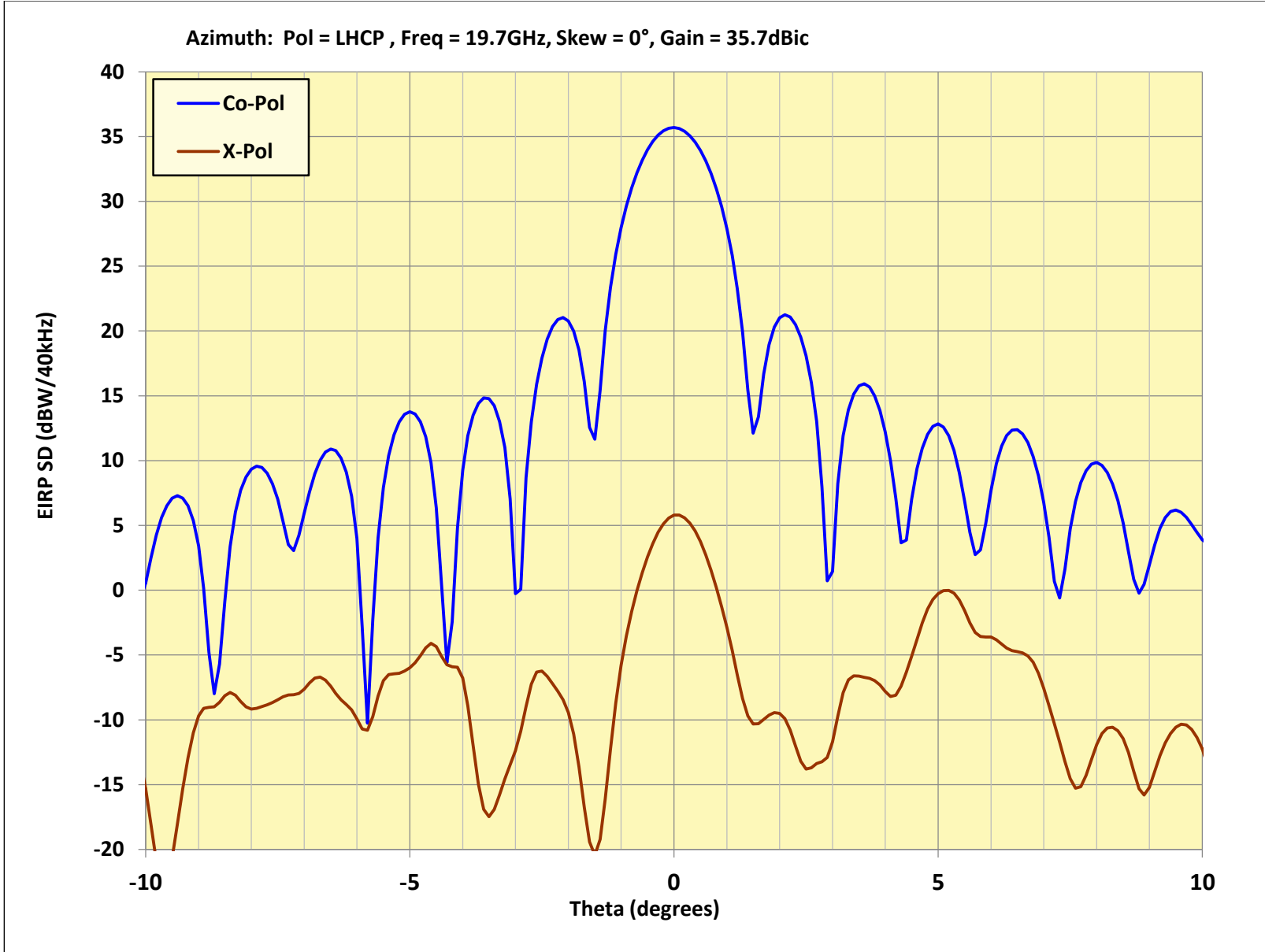
Dotted red line is FCC 25.209 FCC co-polarization antenna gain mask

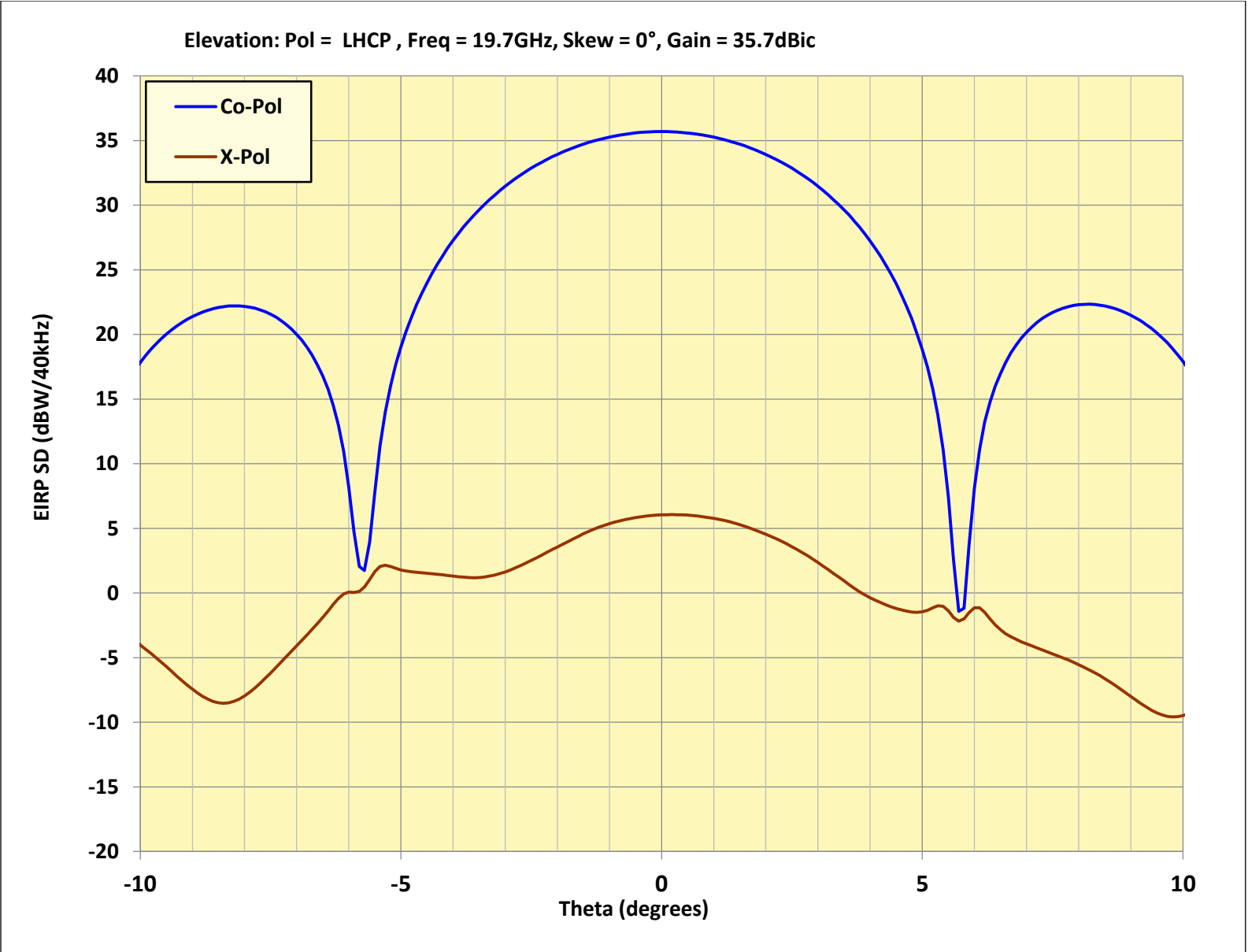
Dotted green line is FCC 25.209 FCC cross-polarization antenna gain mask

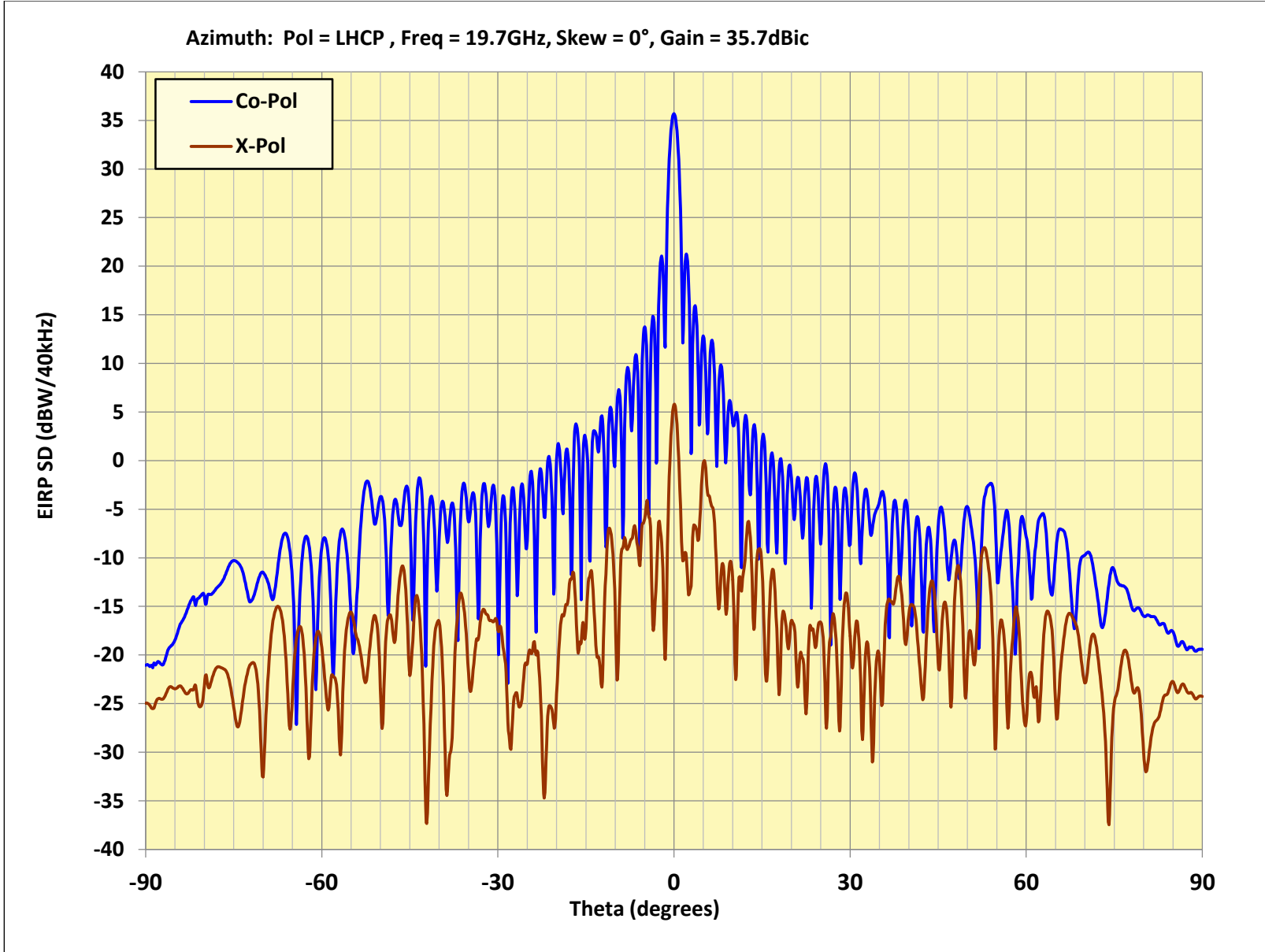
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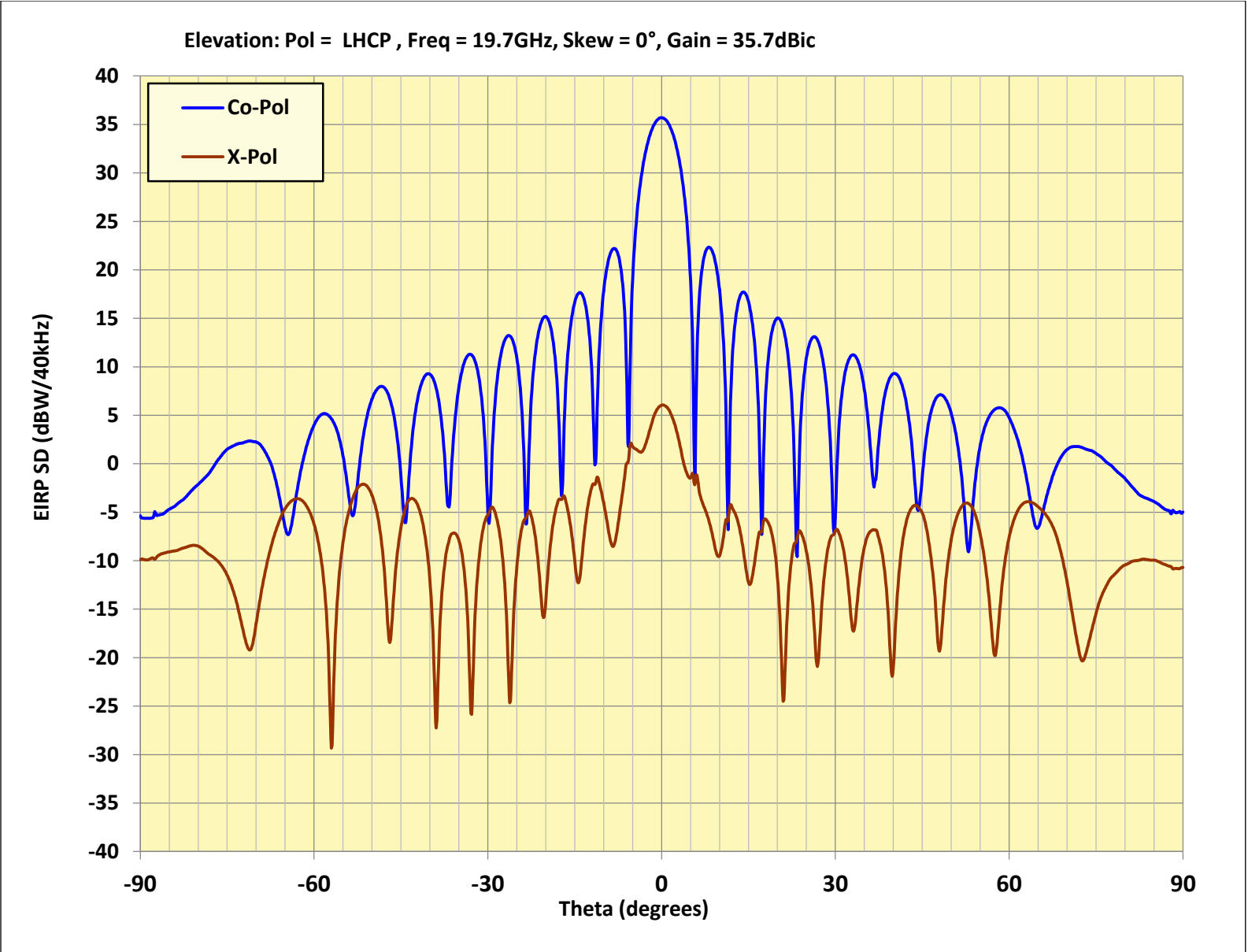
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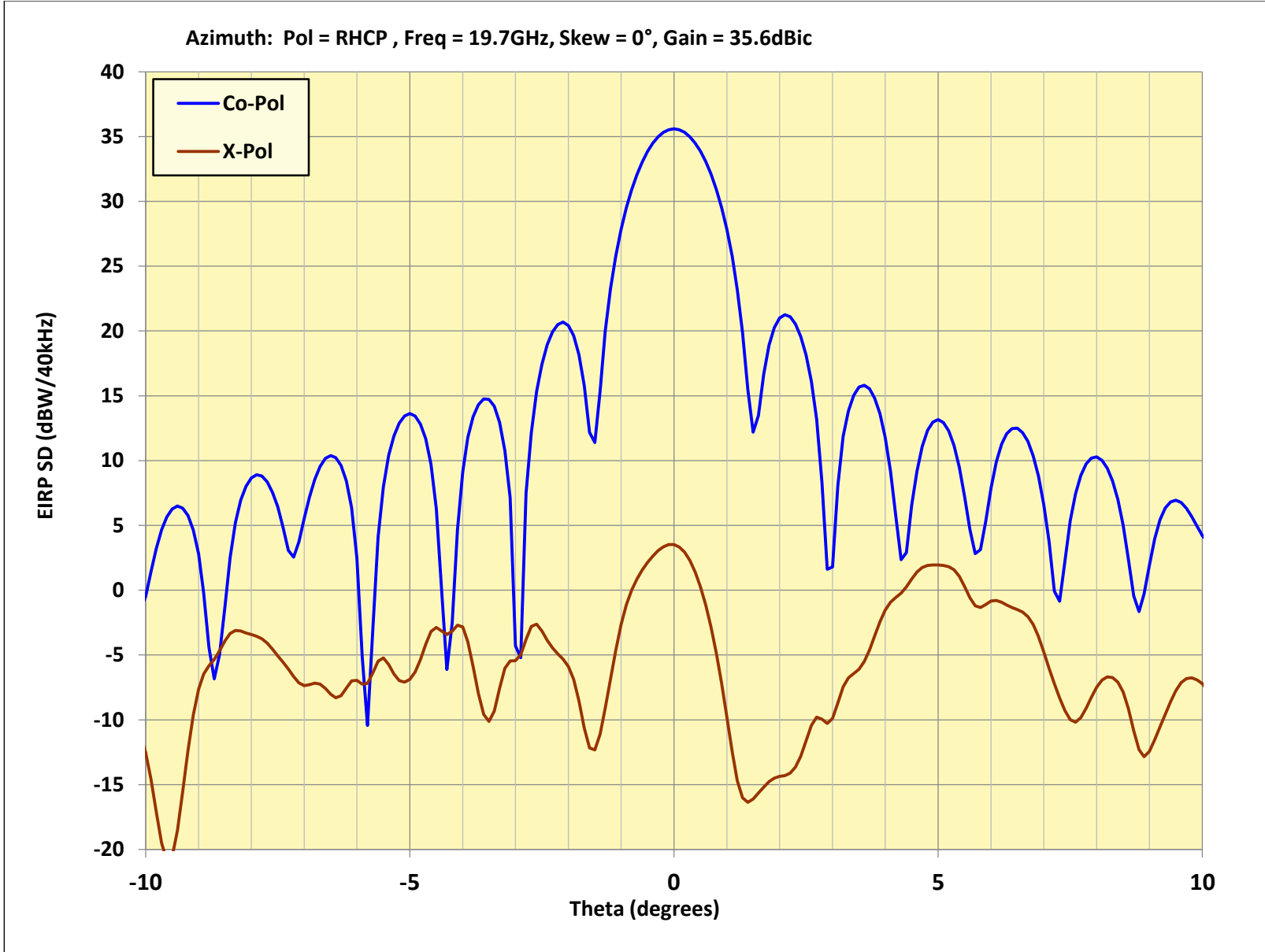
## **19.7 GHz at 0° Skew Angle**



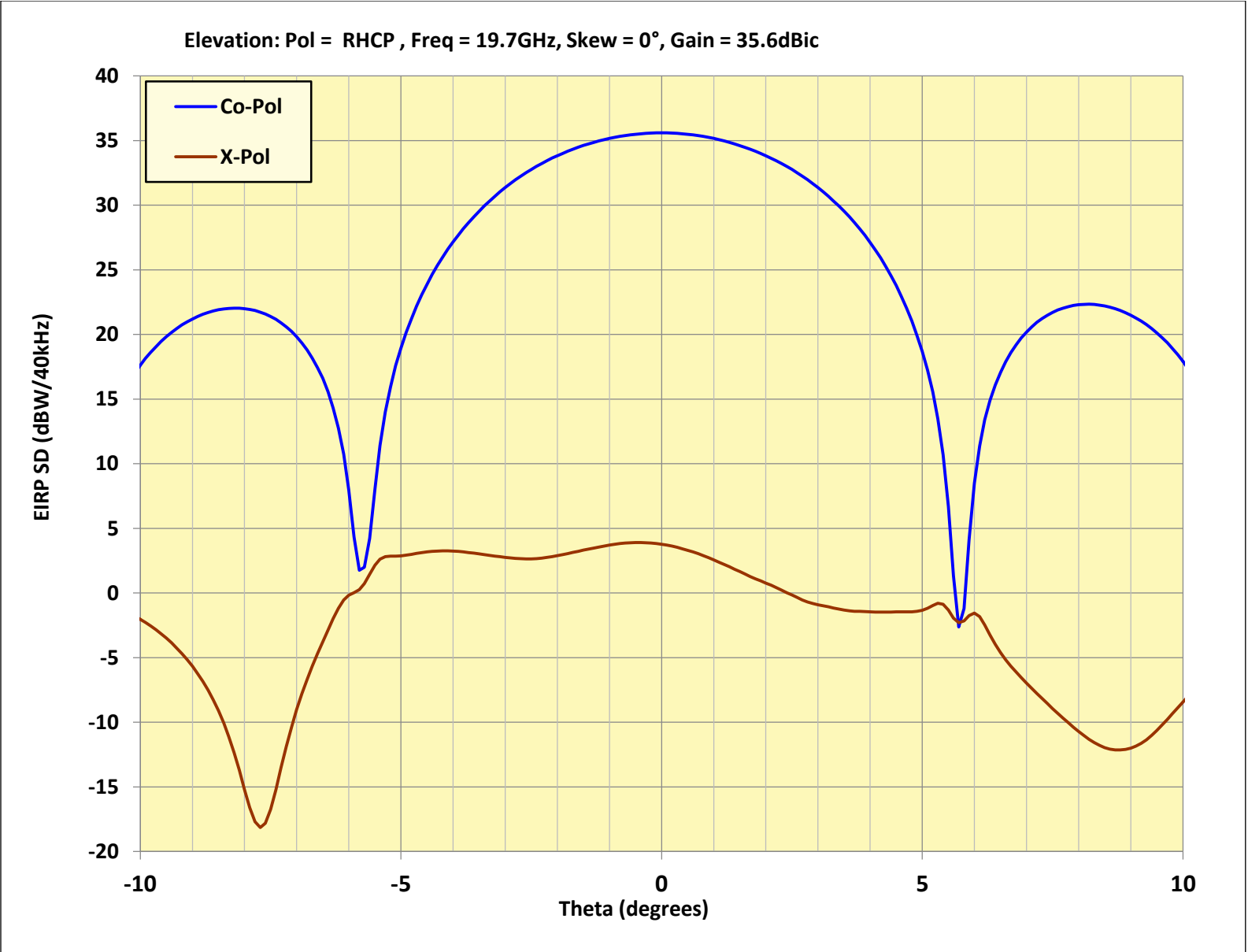


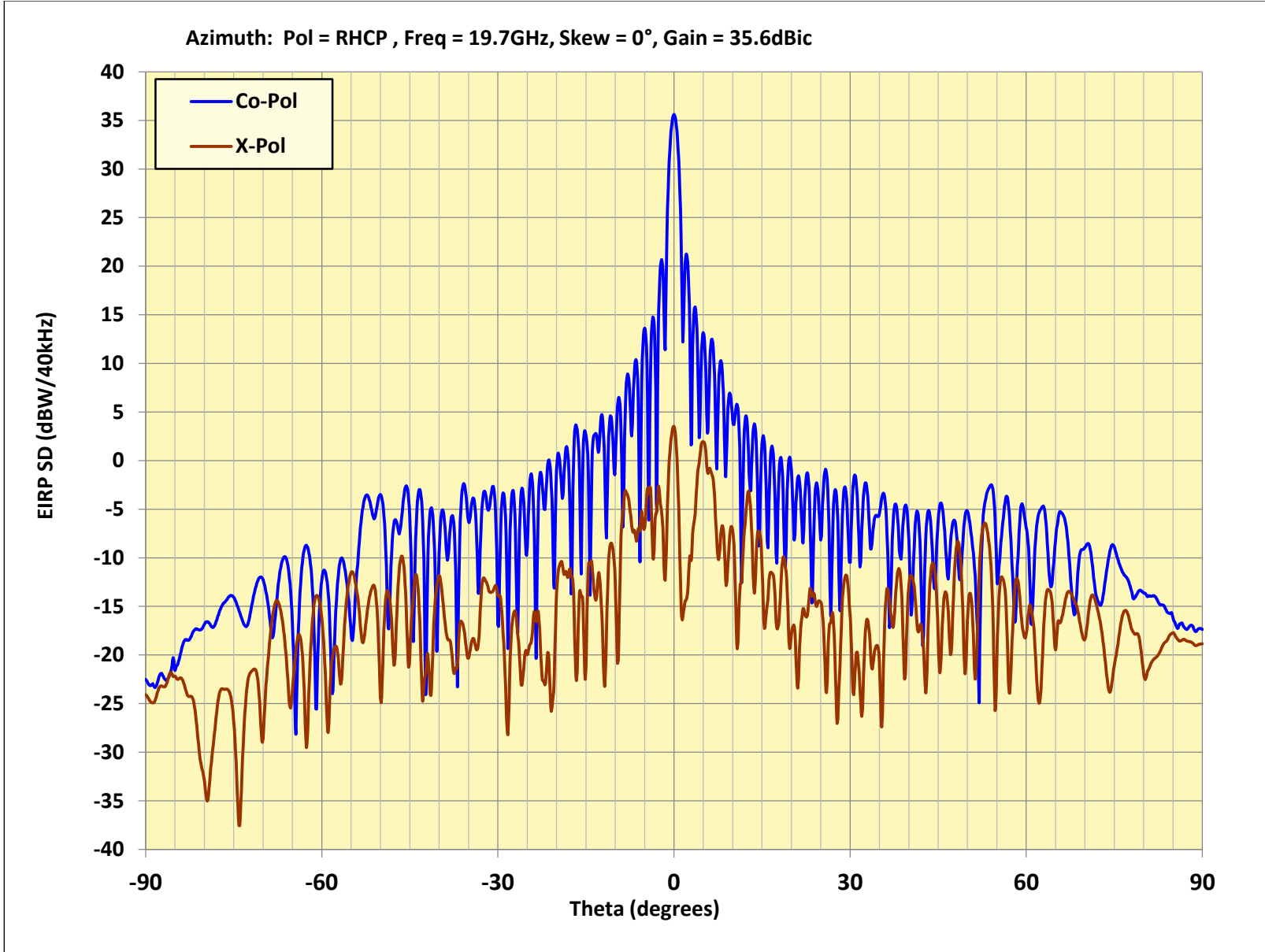


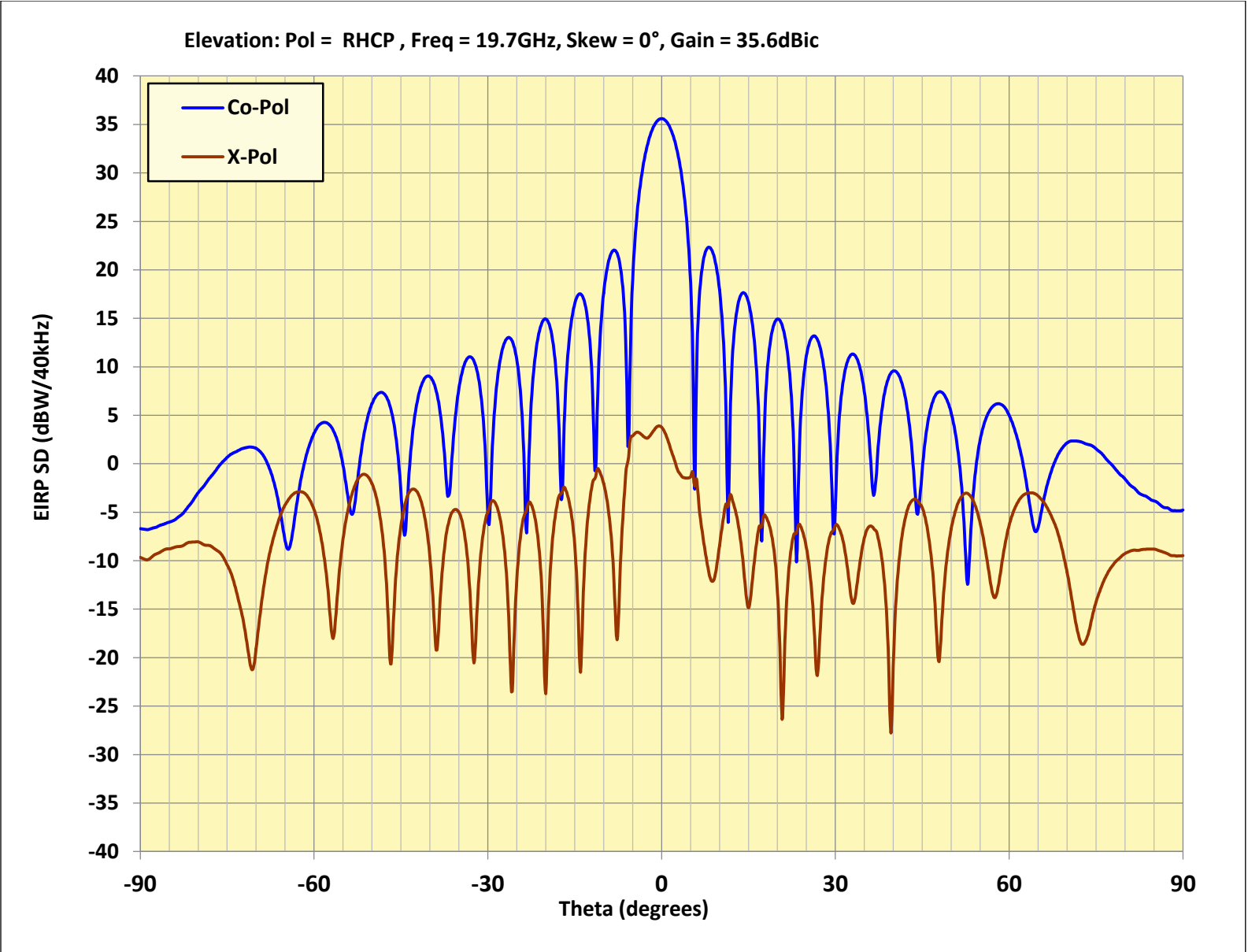




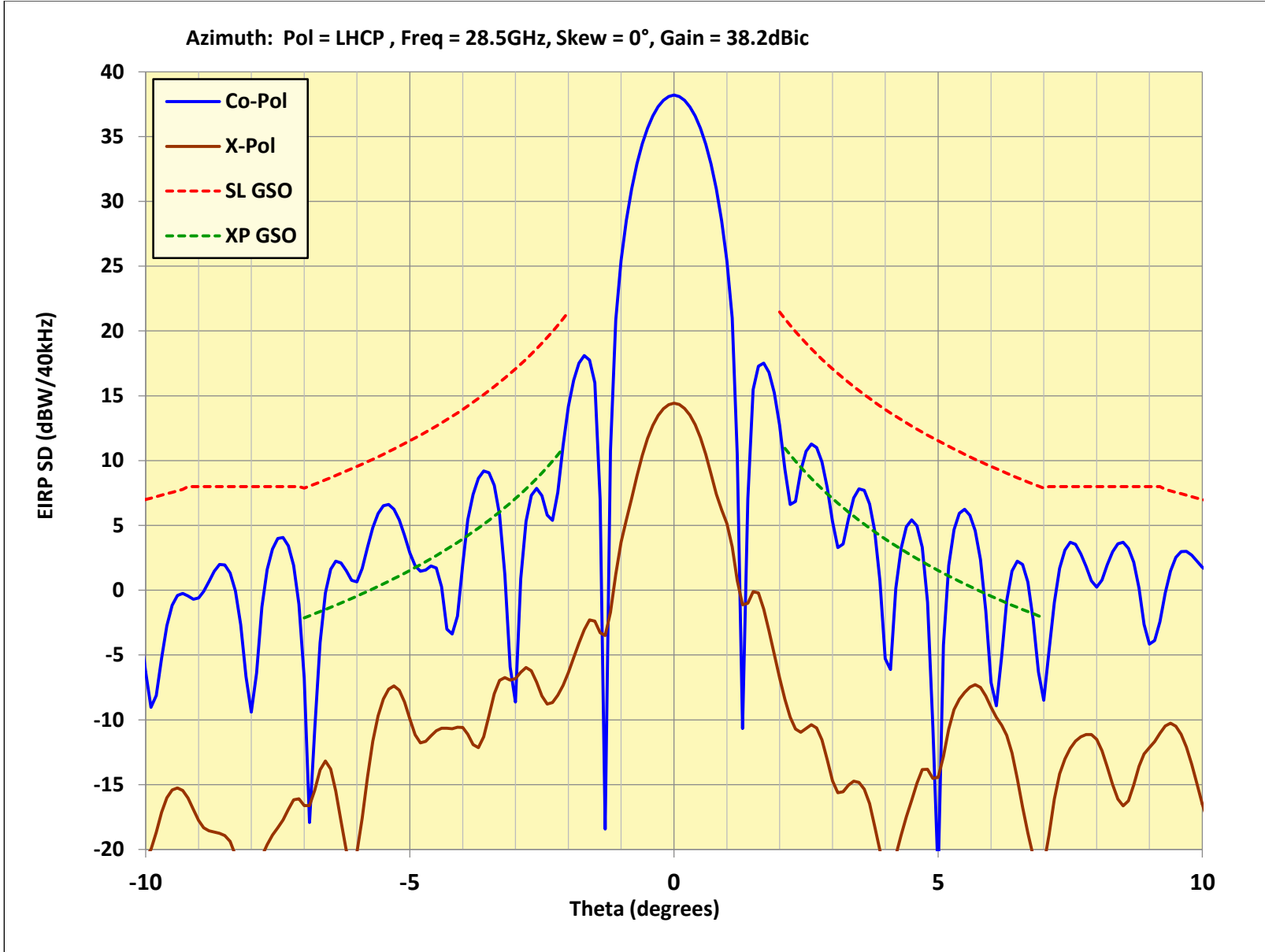


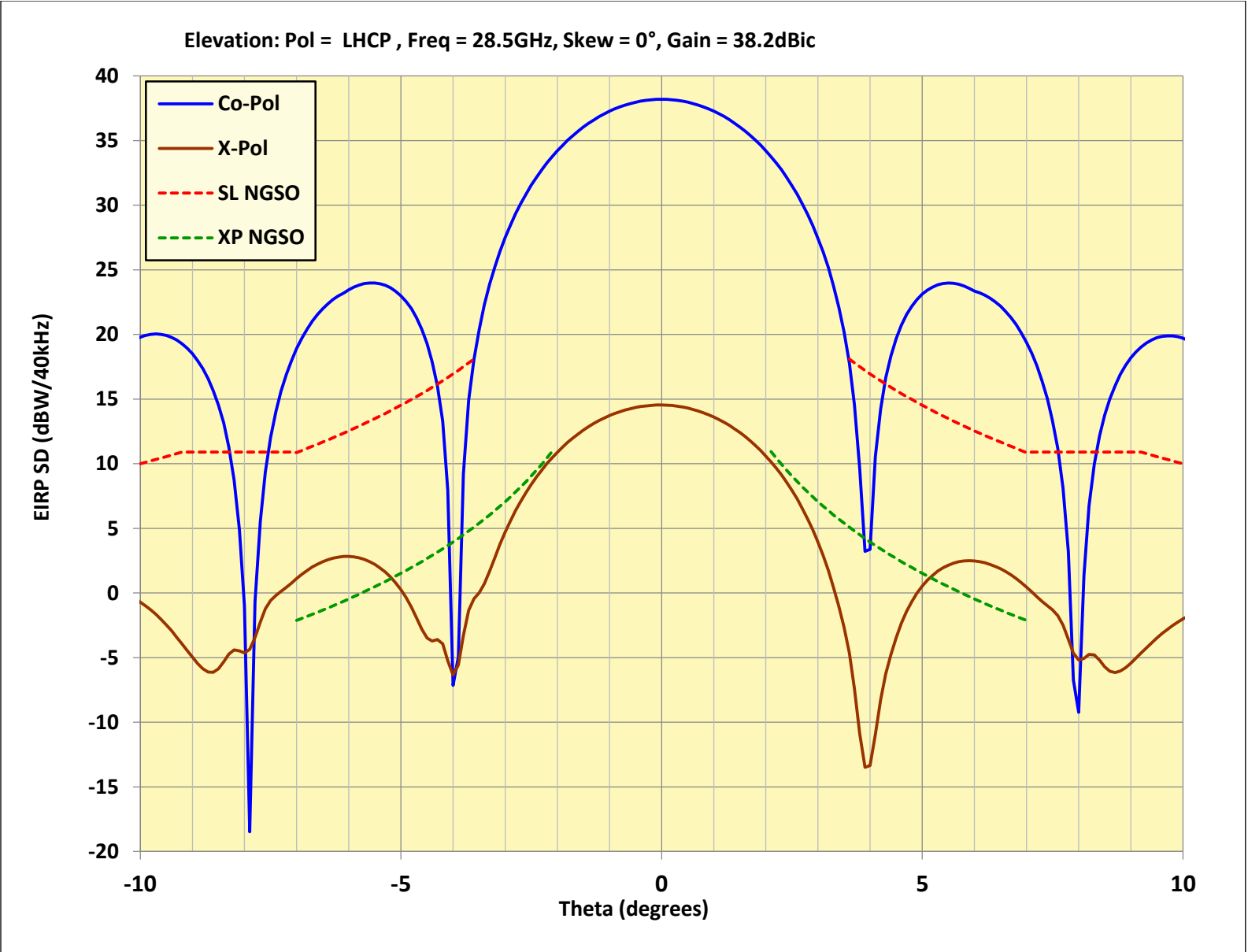


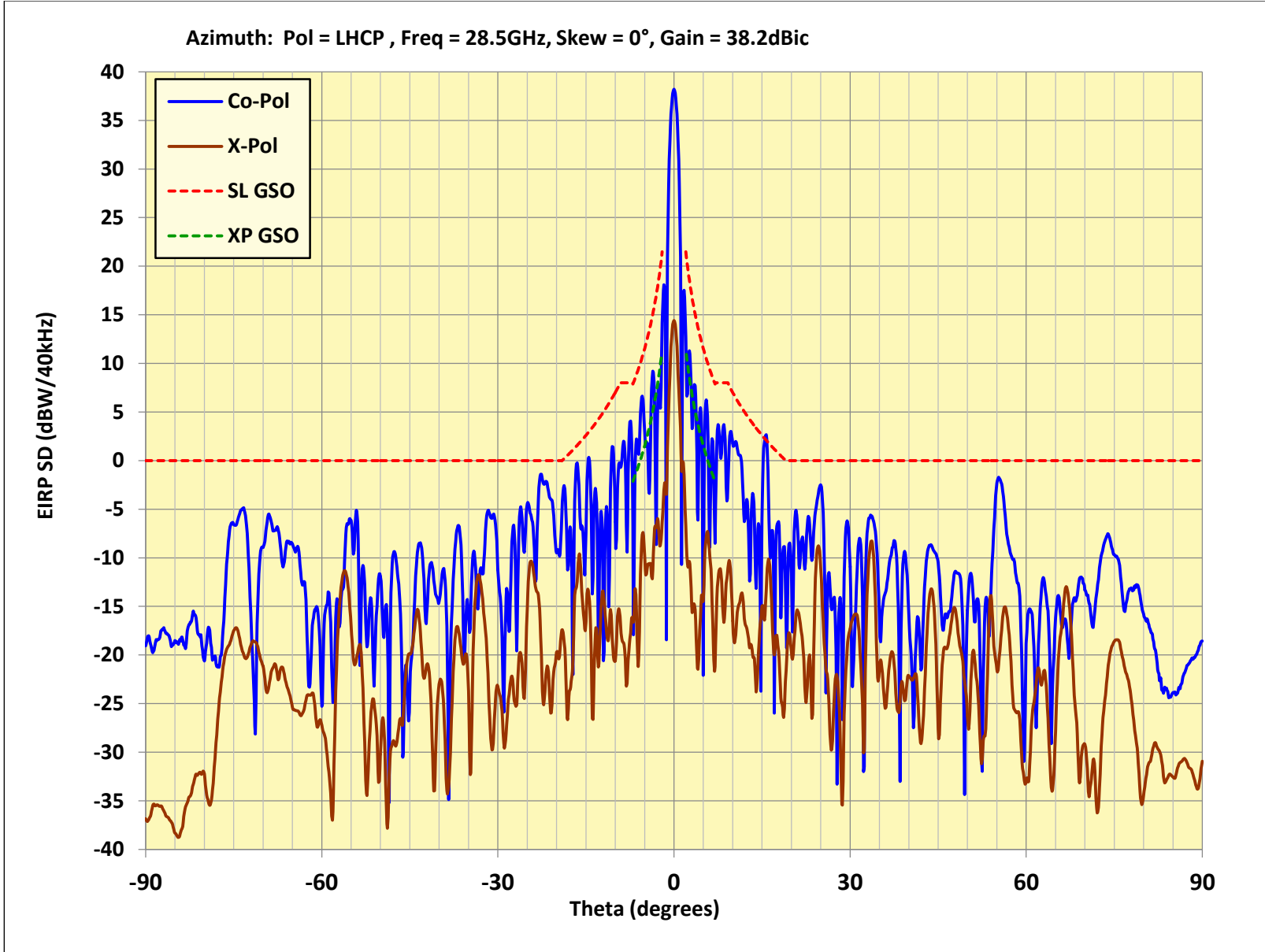


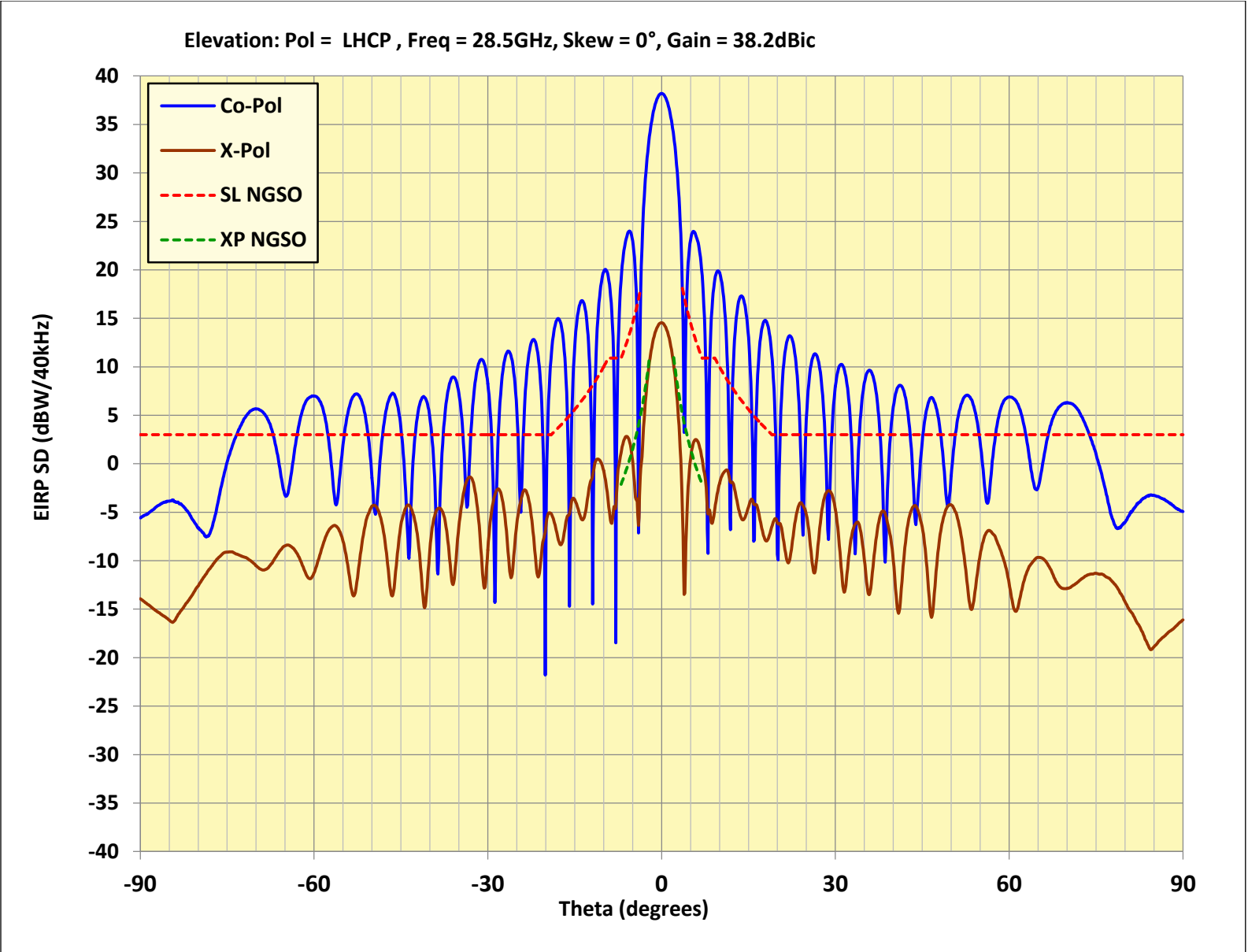


## **28.5 GHz at 0° Skew Angle**

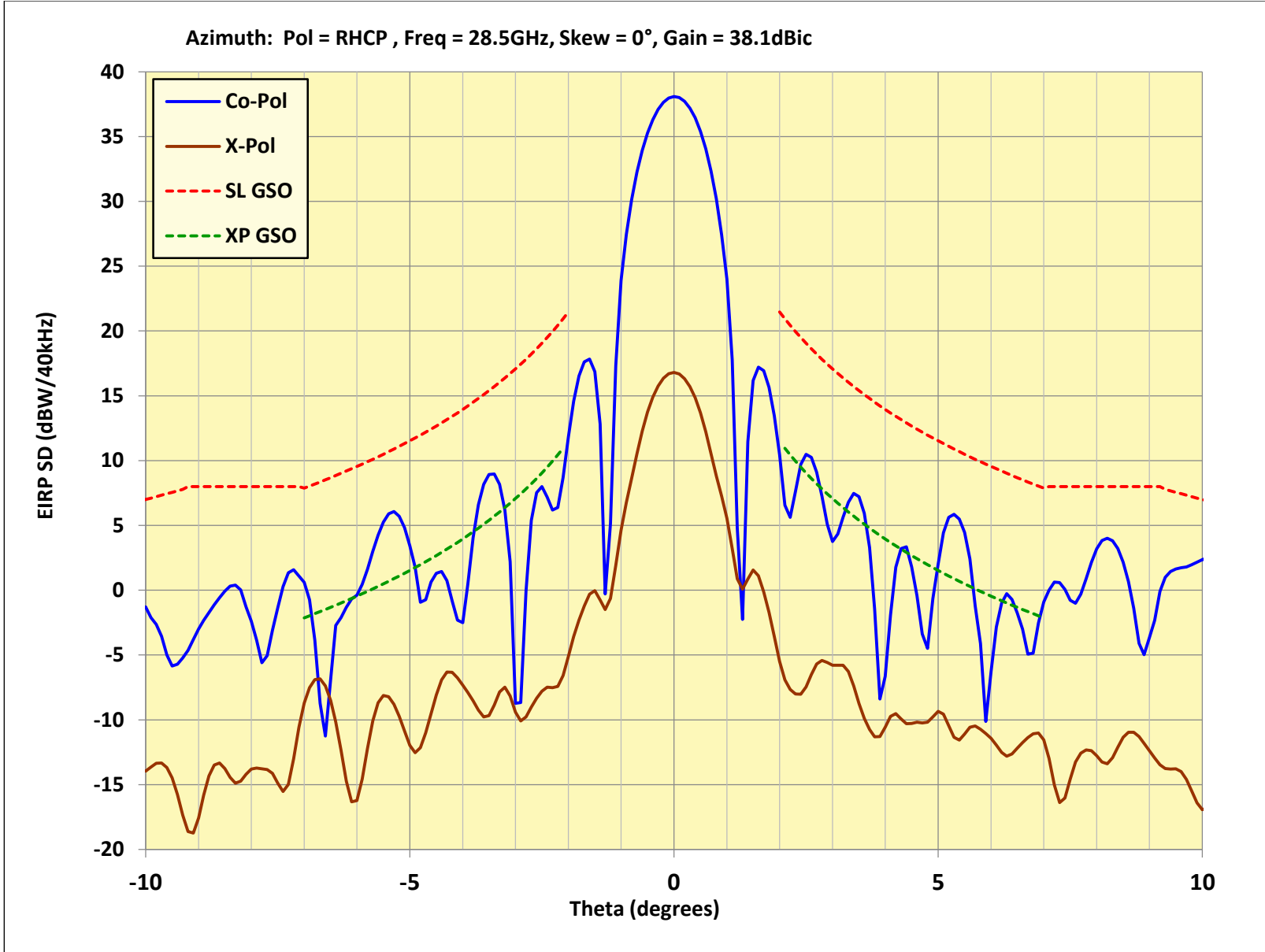


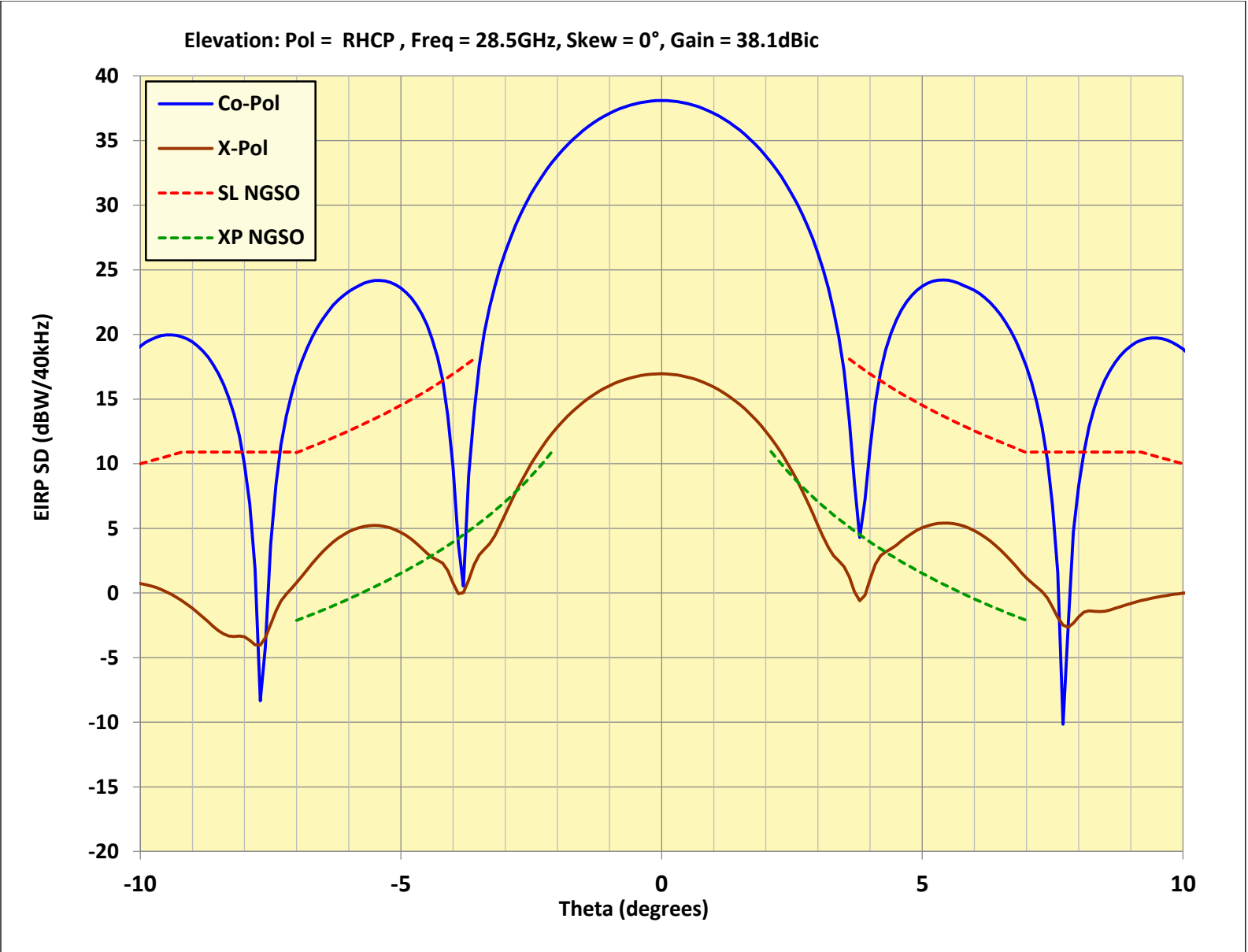


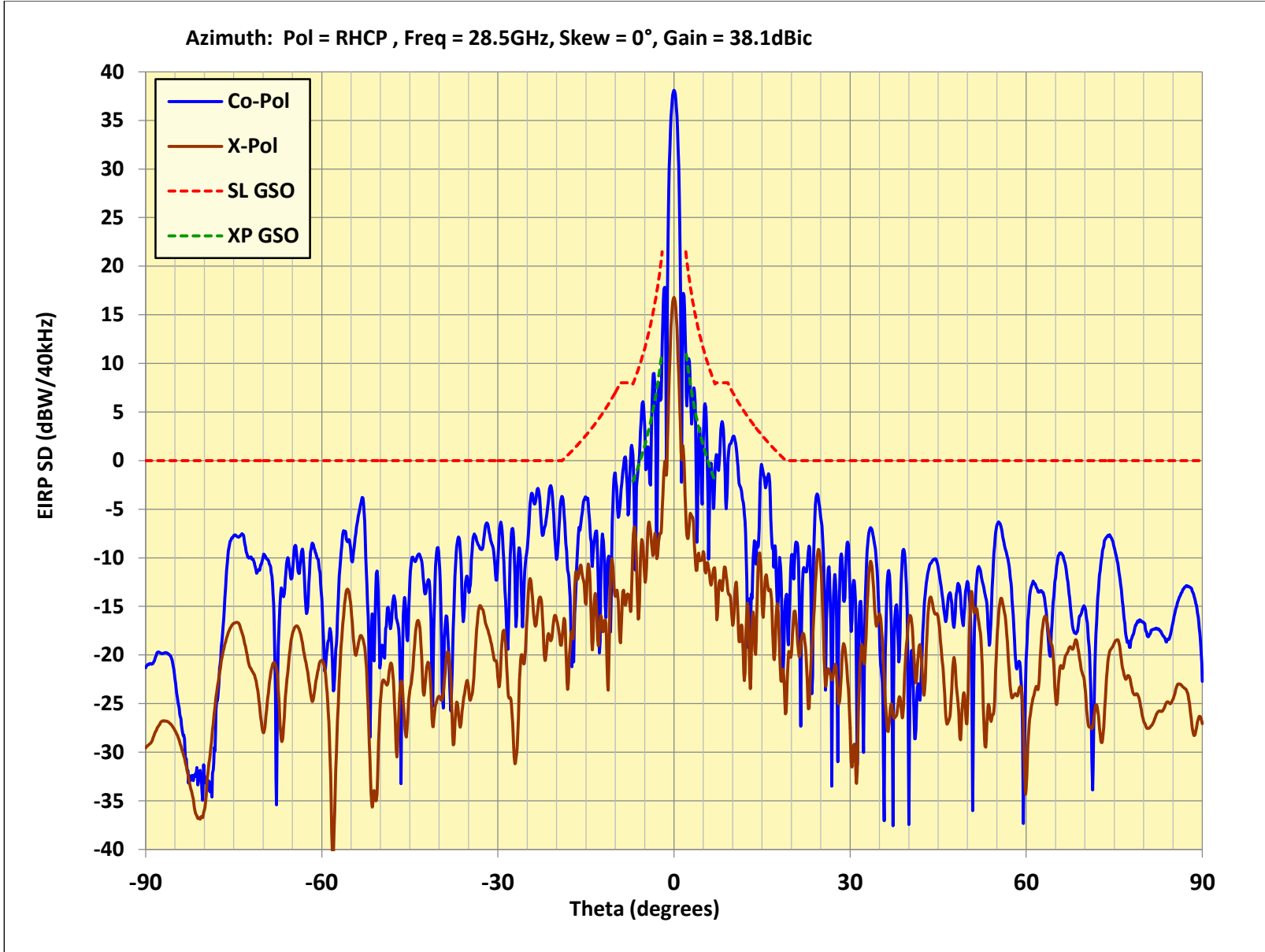


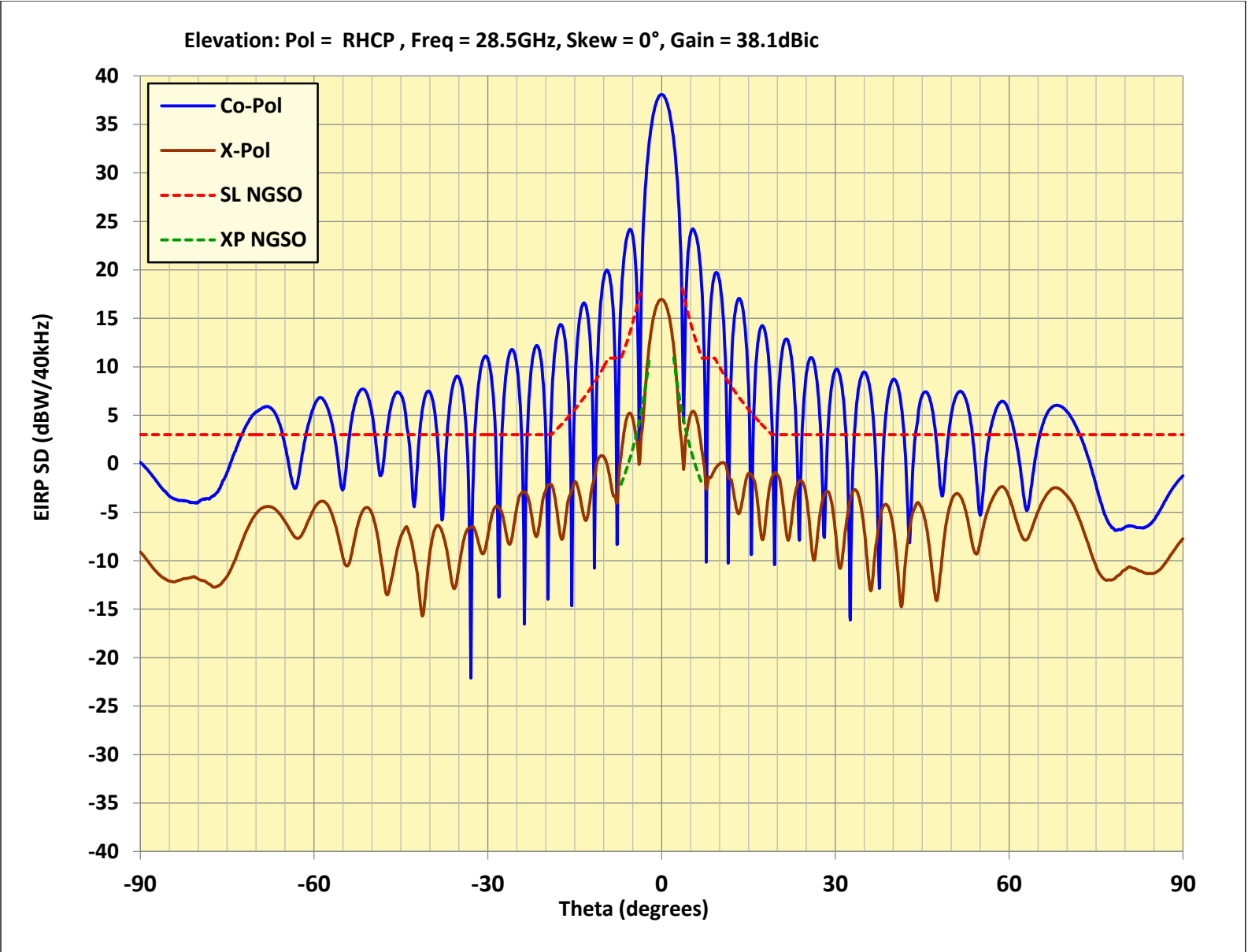




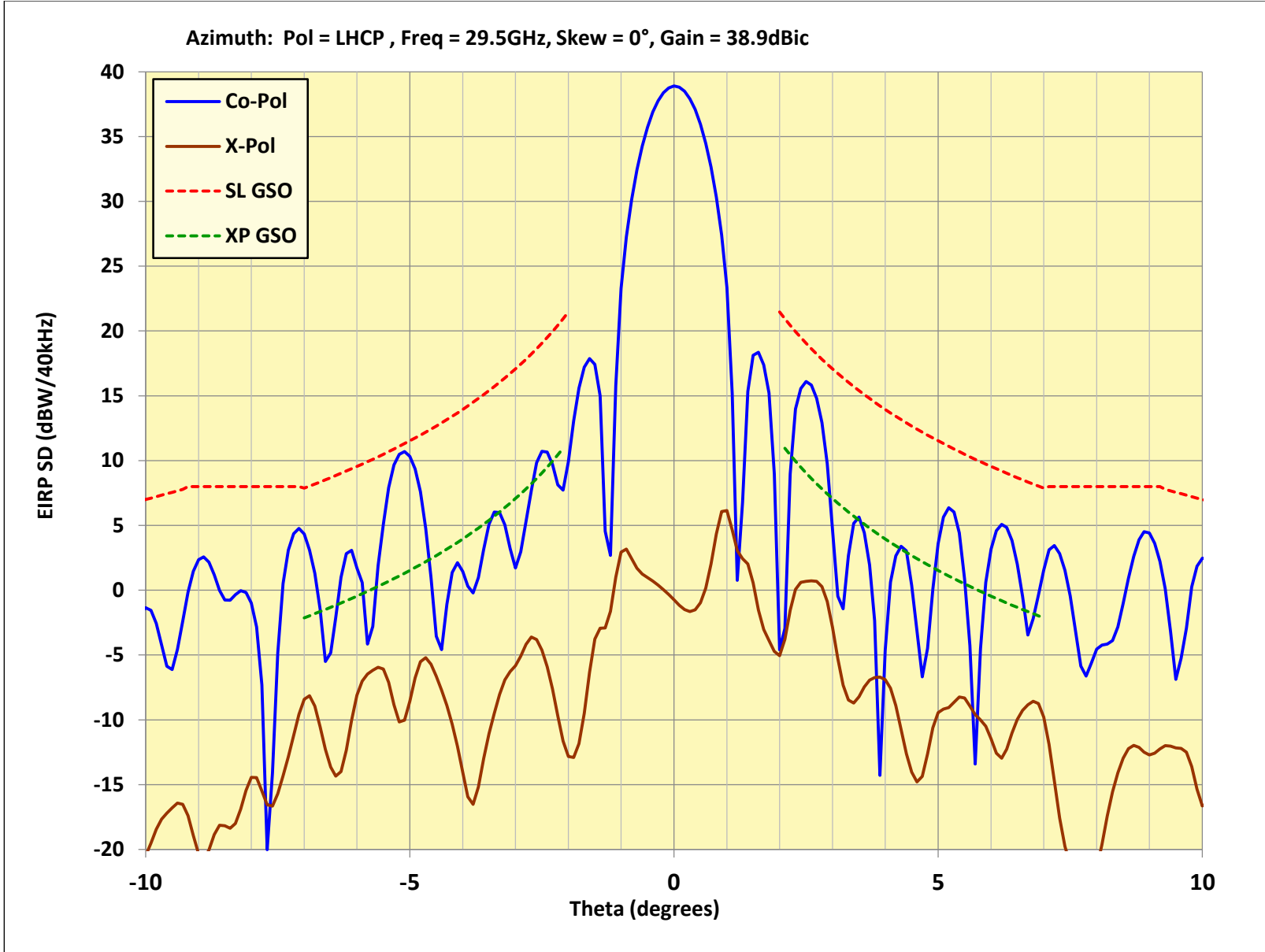


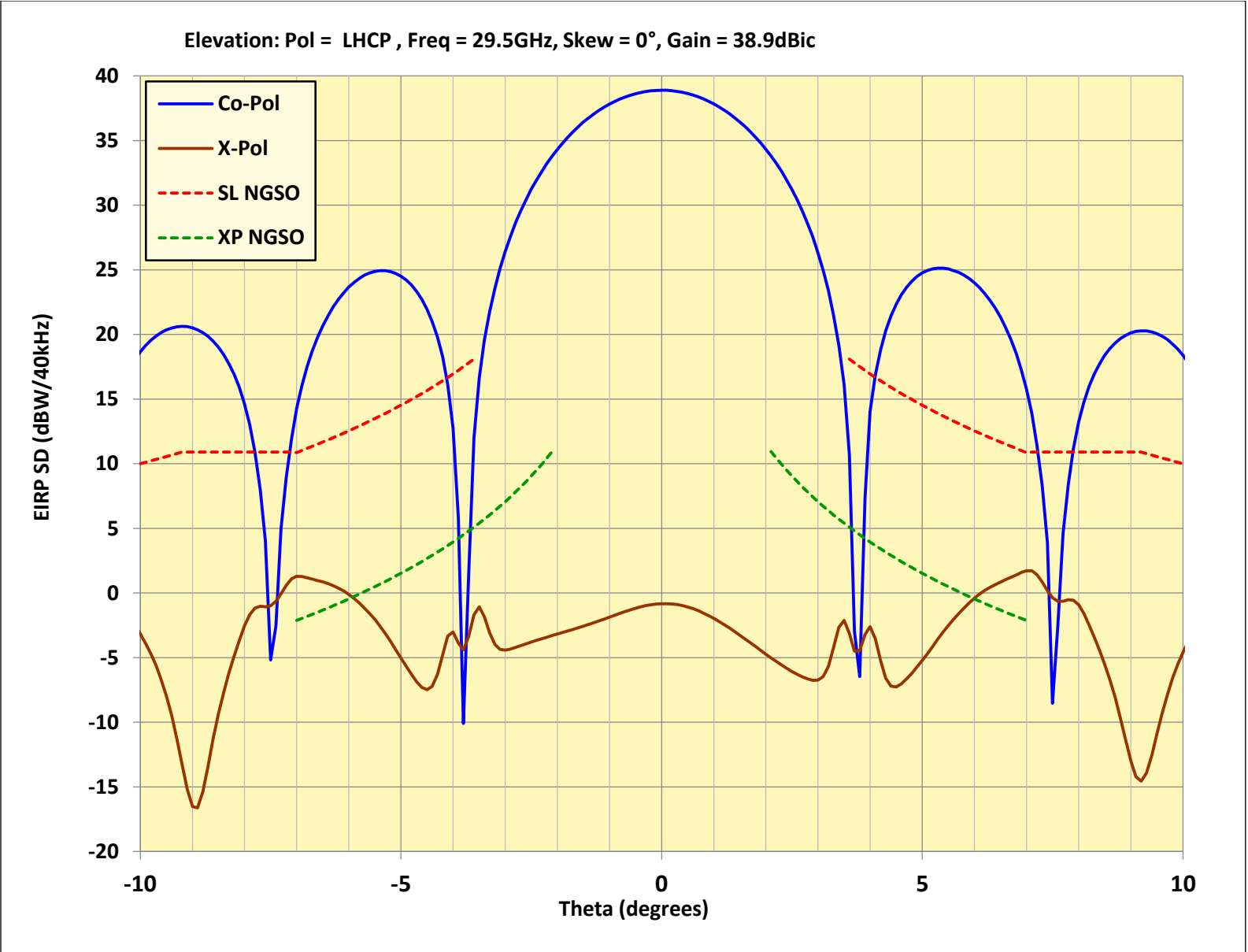


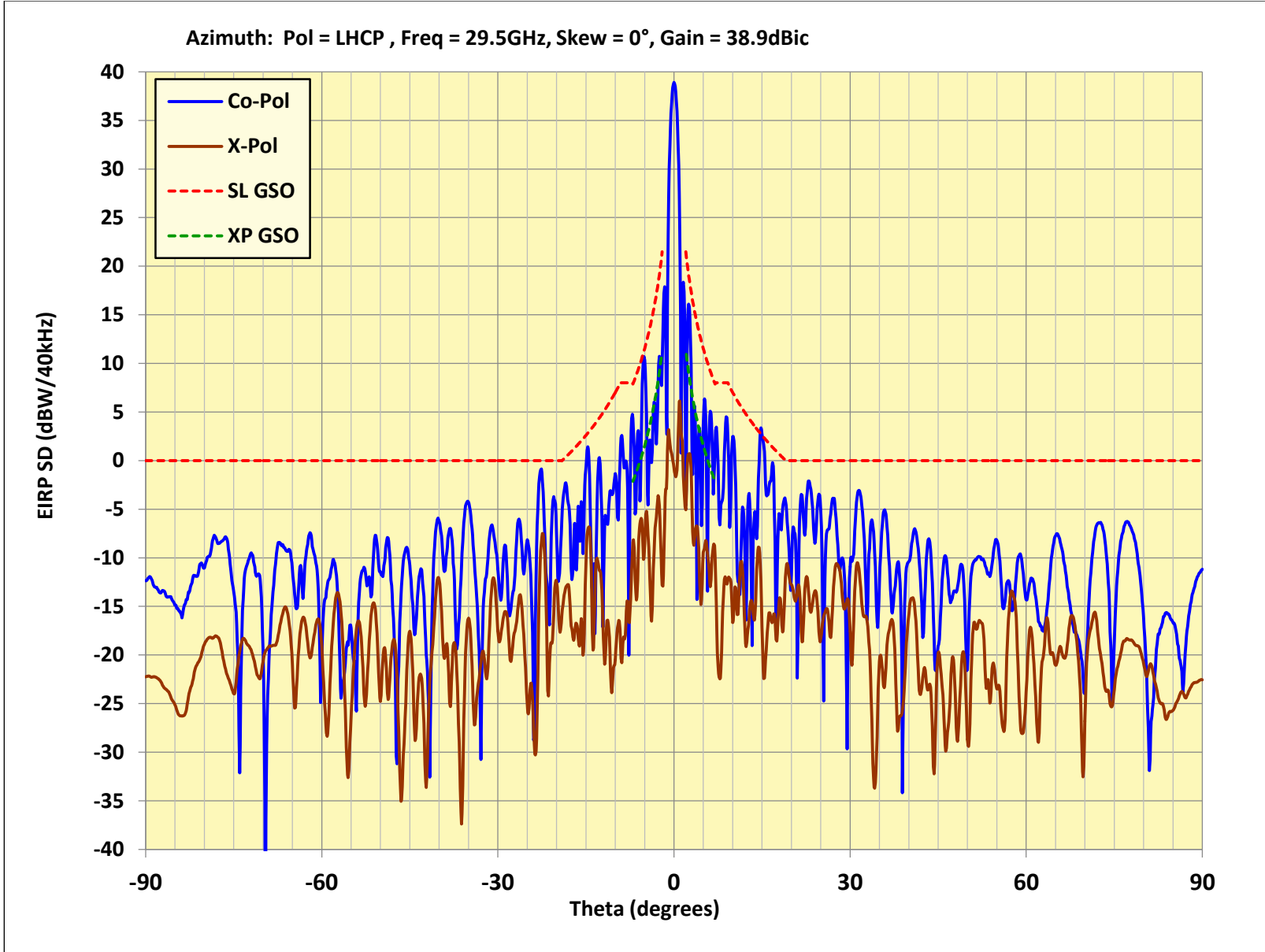




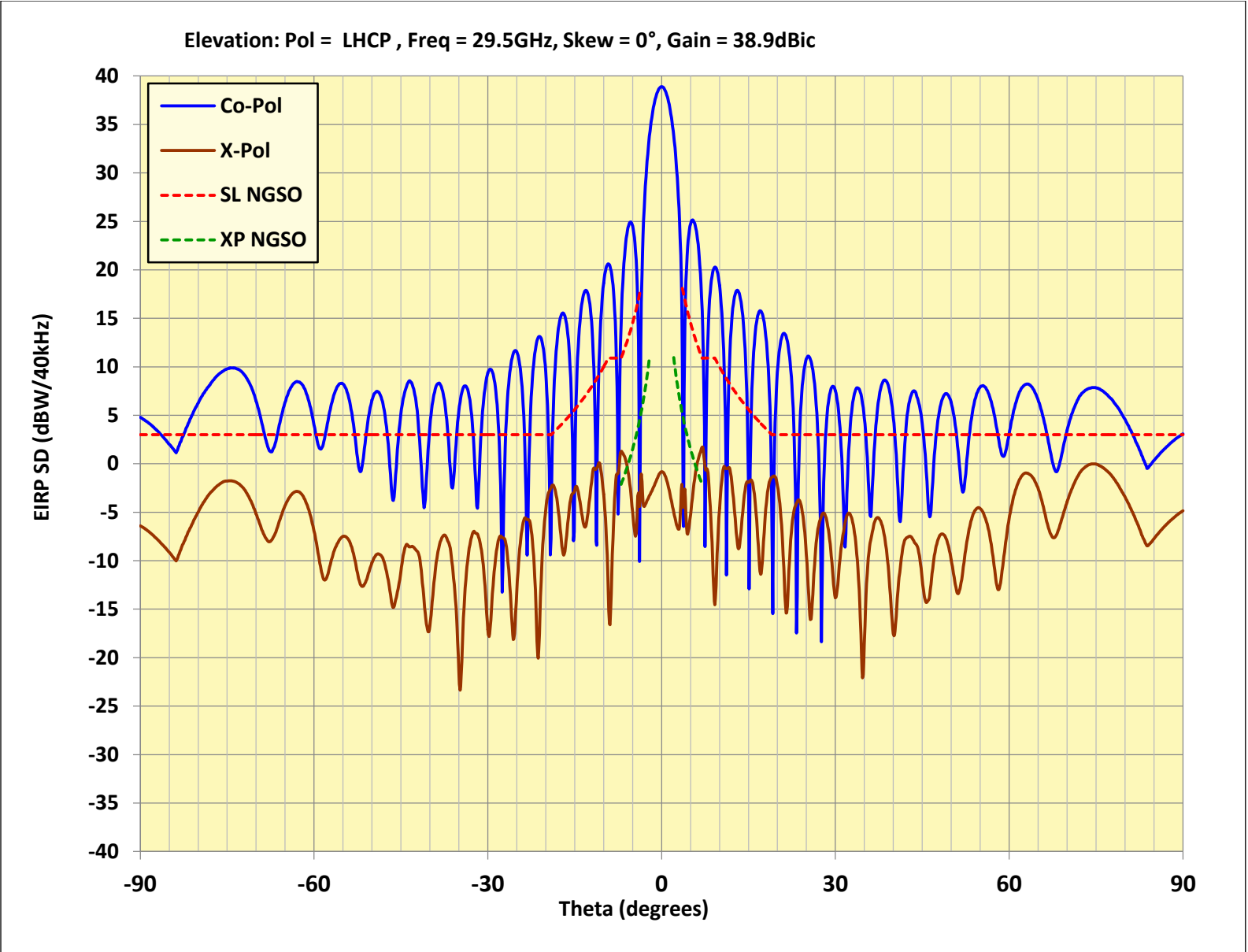
## **29.5 GHz at 0° Skew Angle**

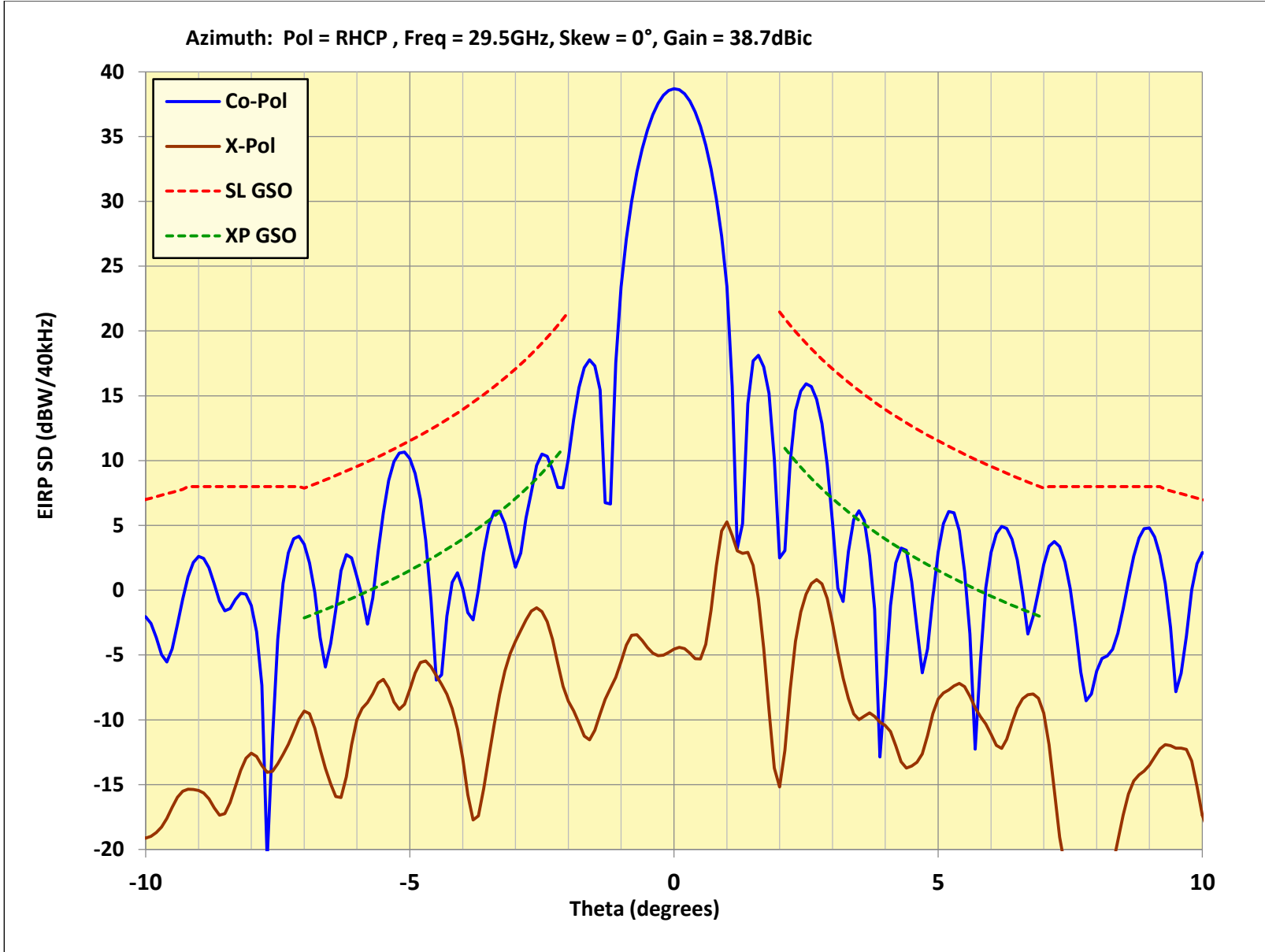


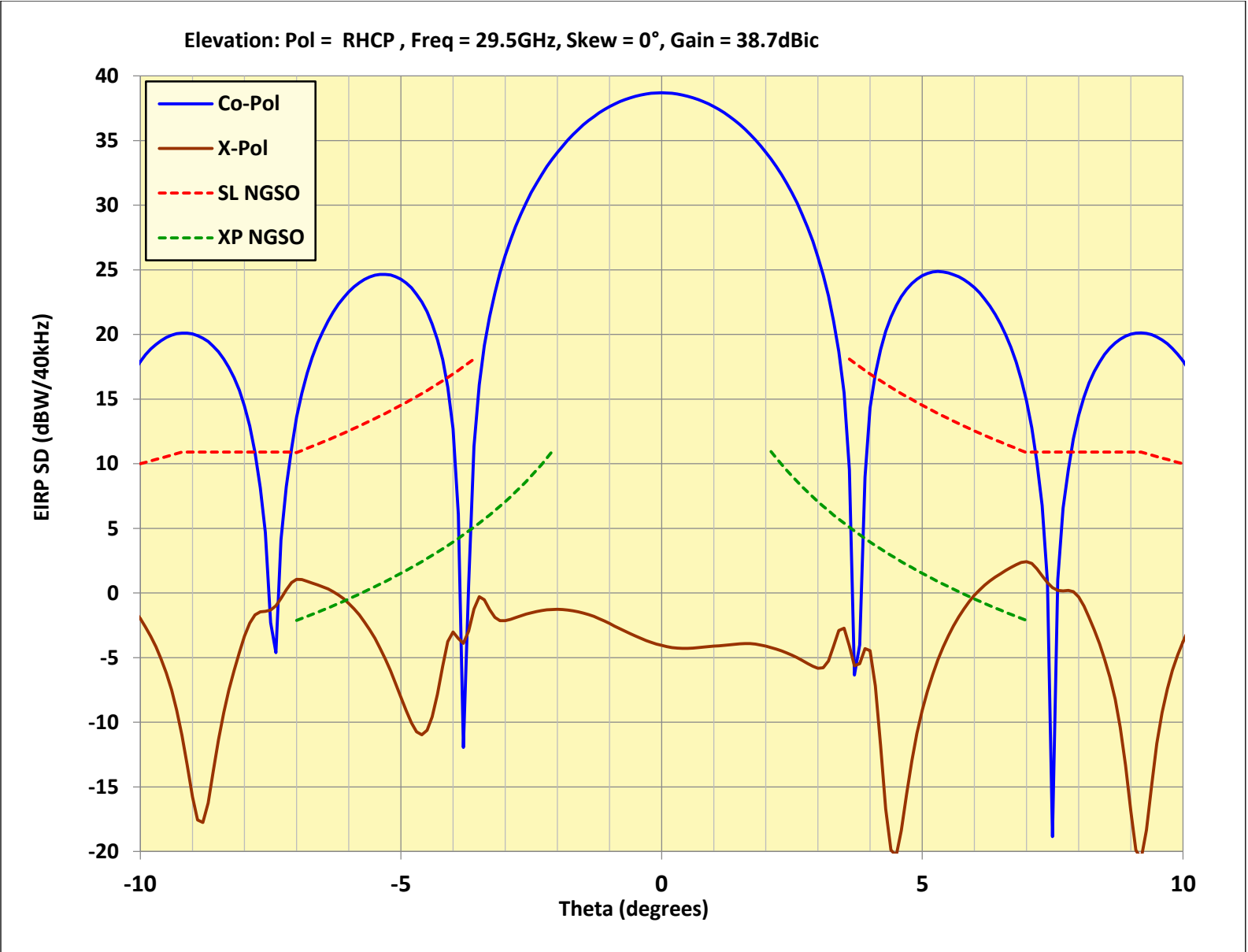


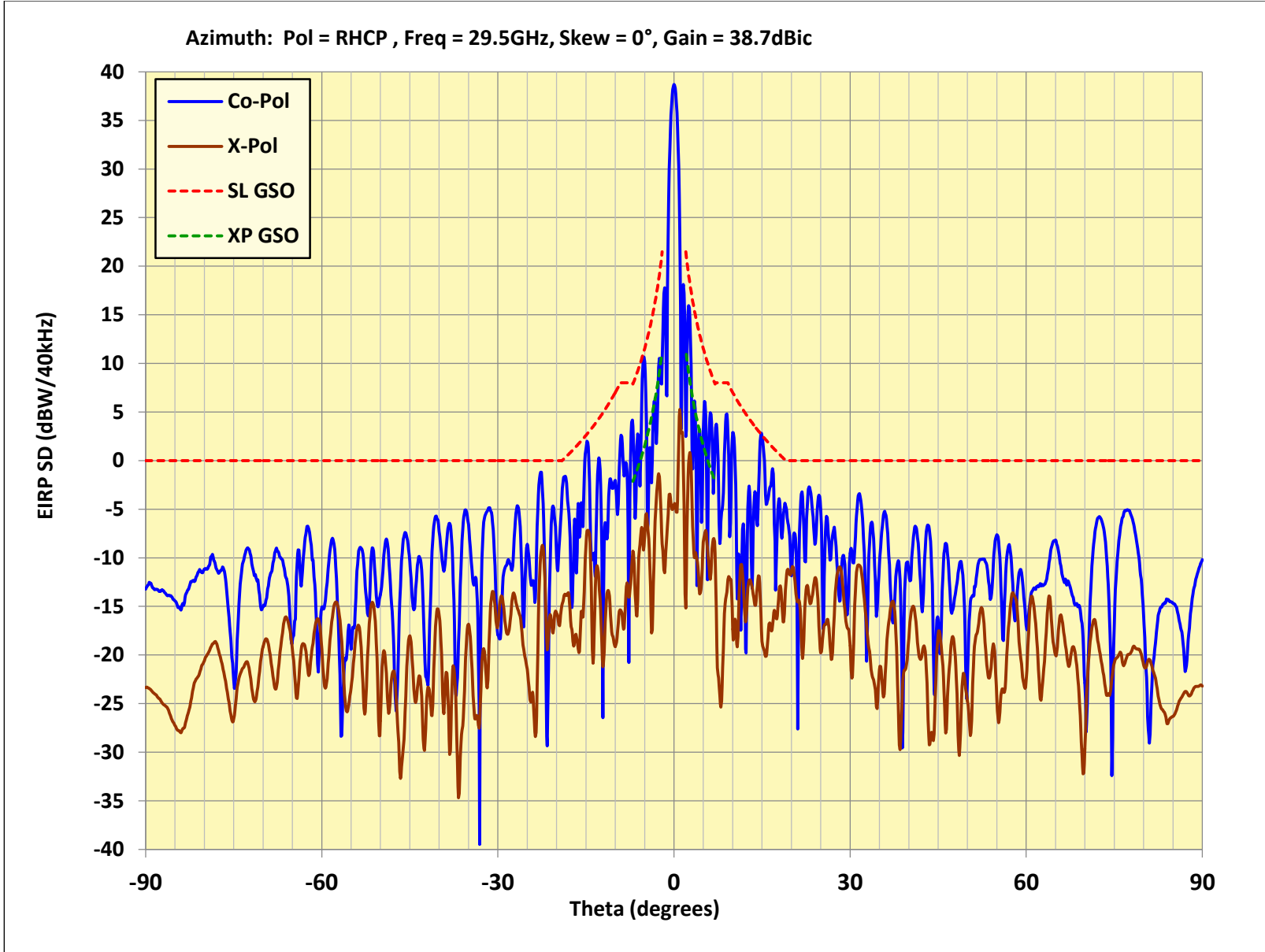


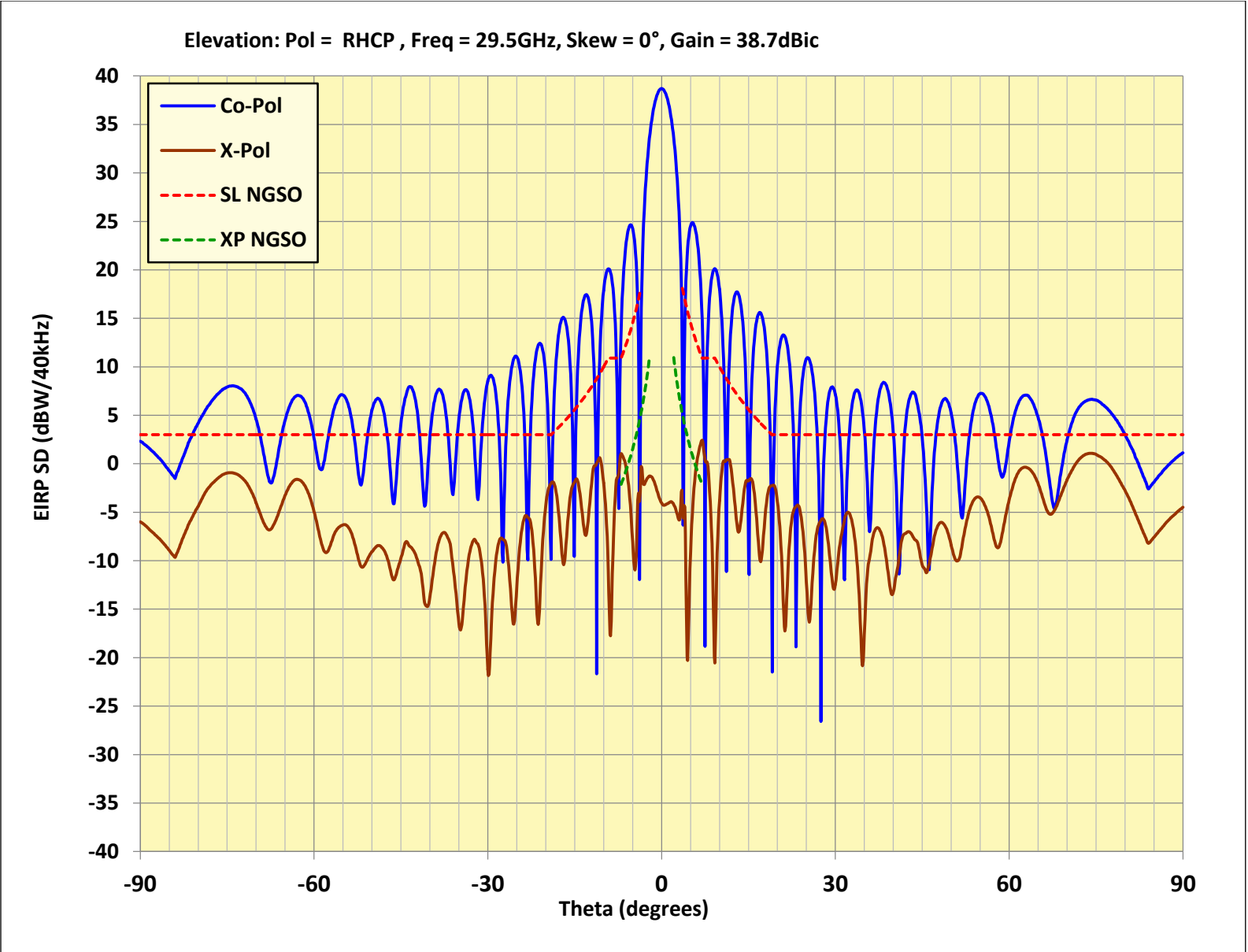




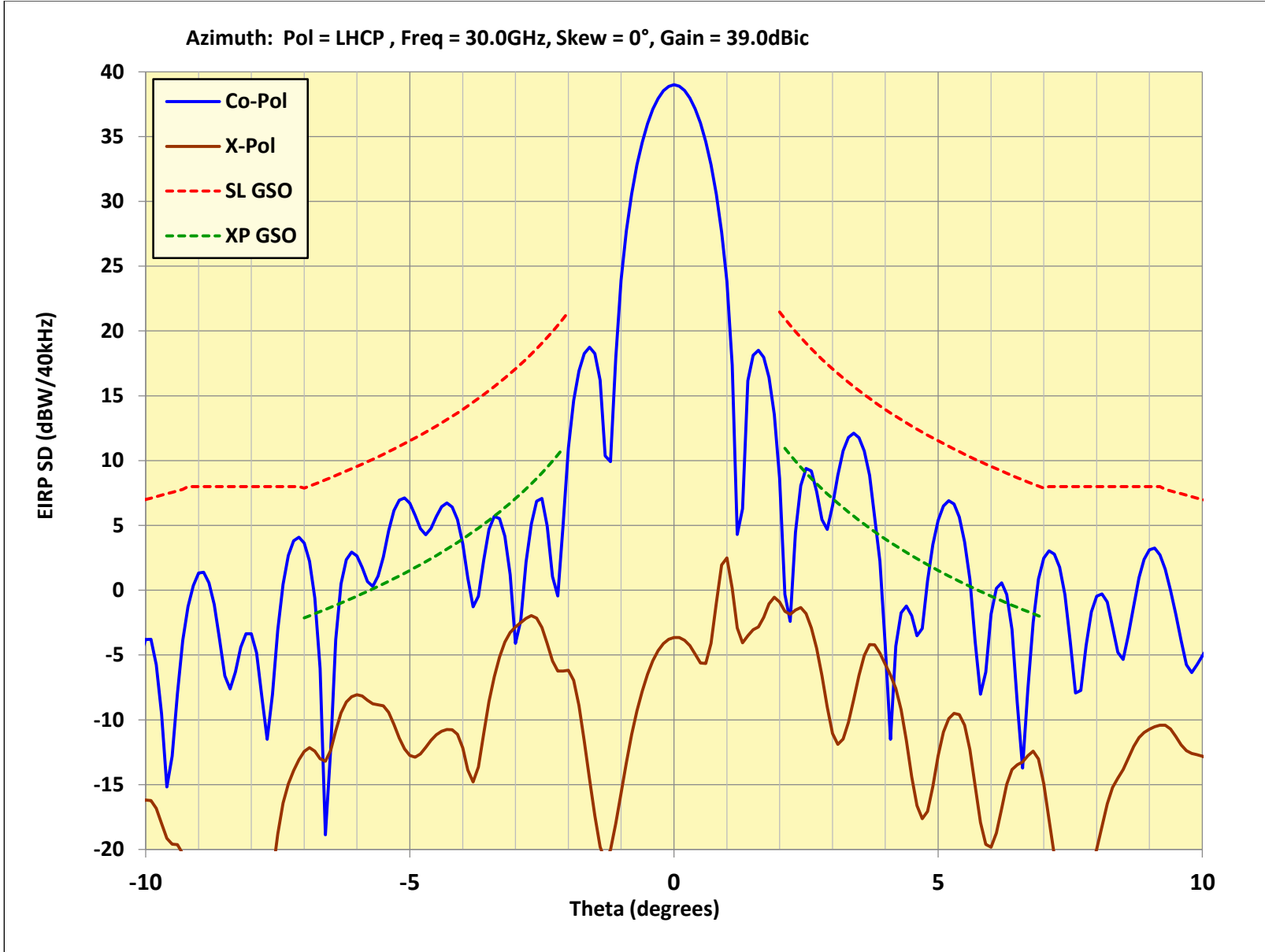


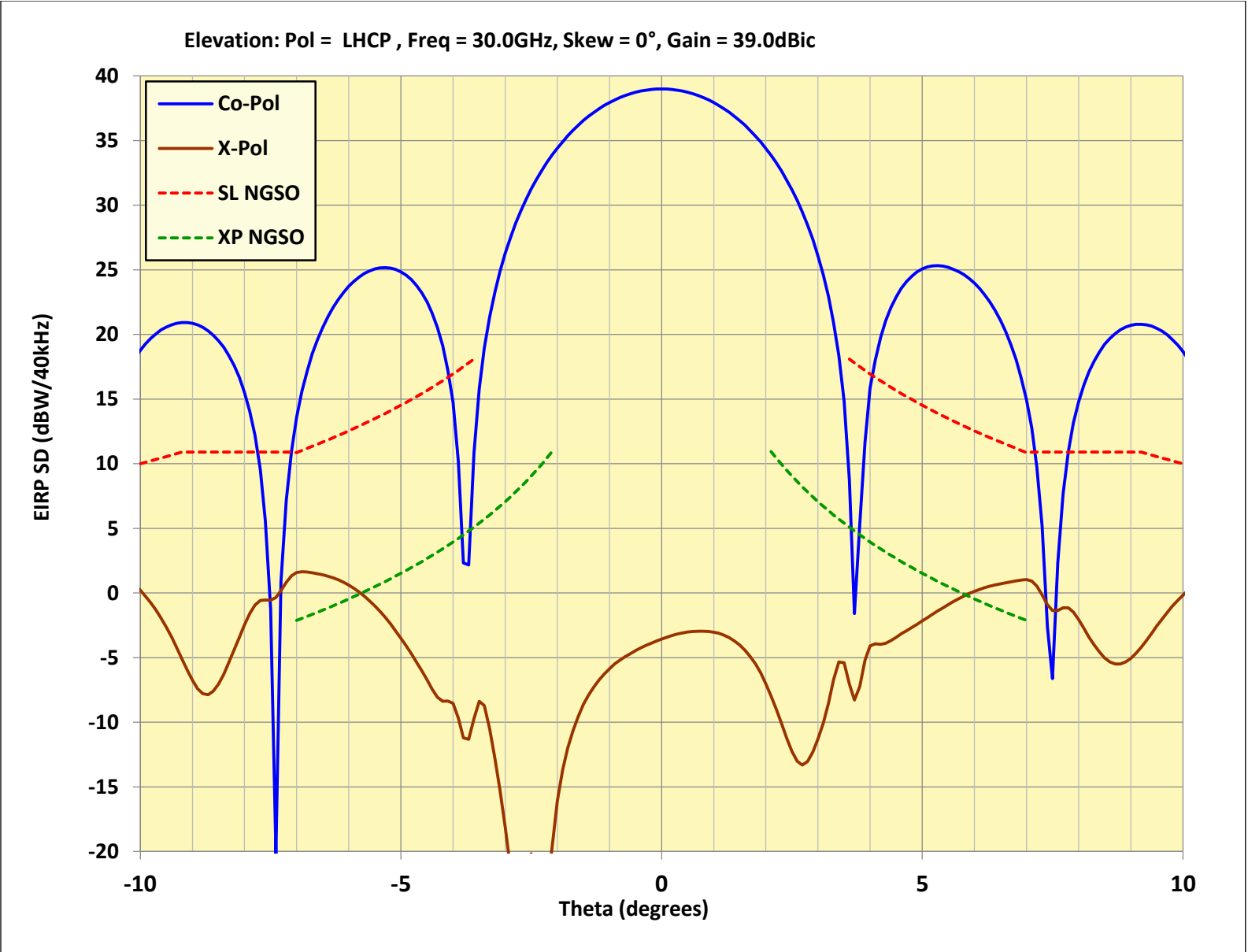




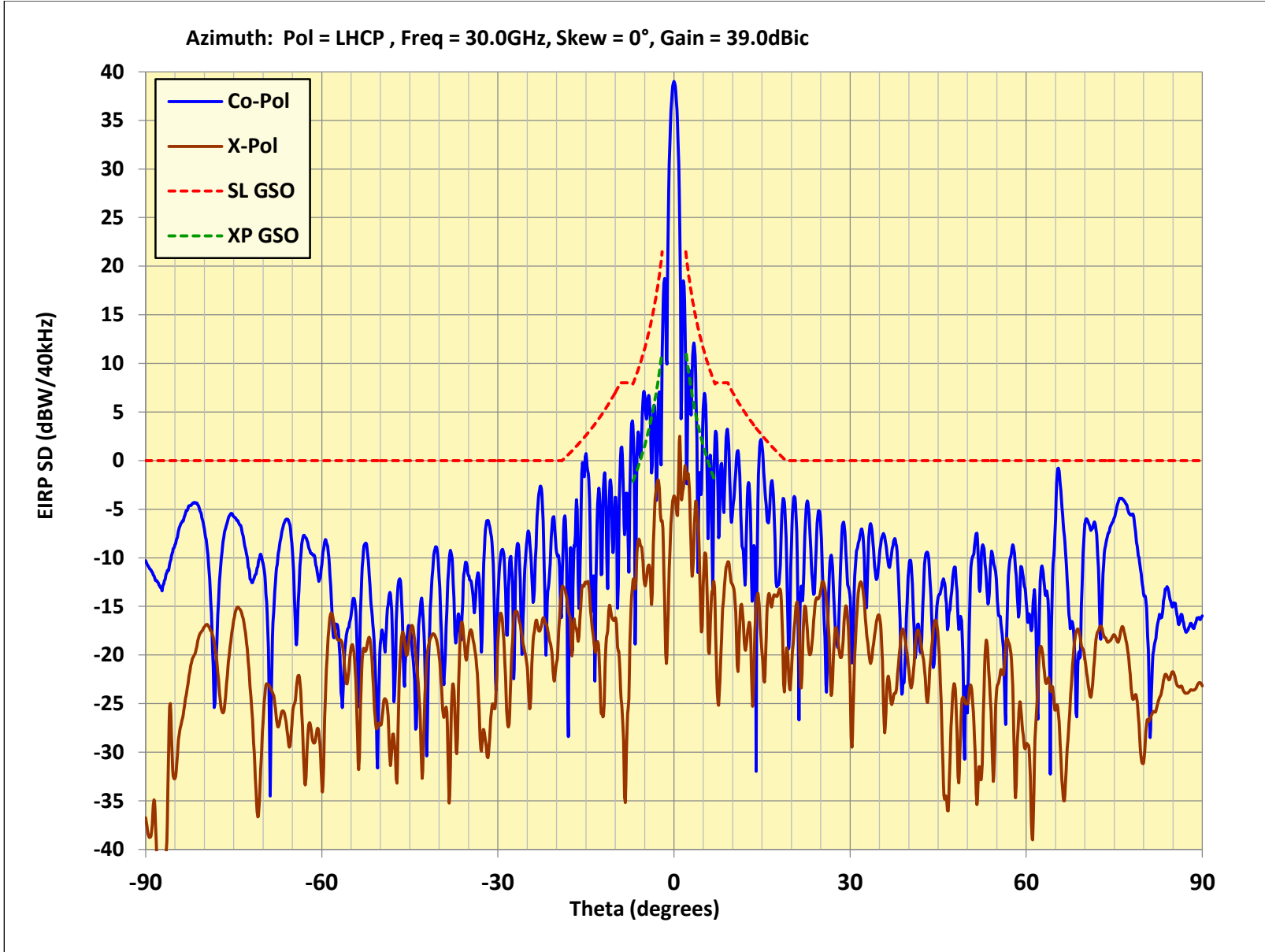


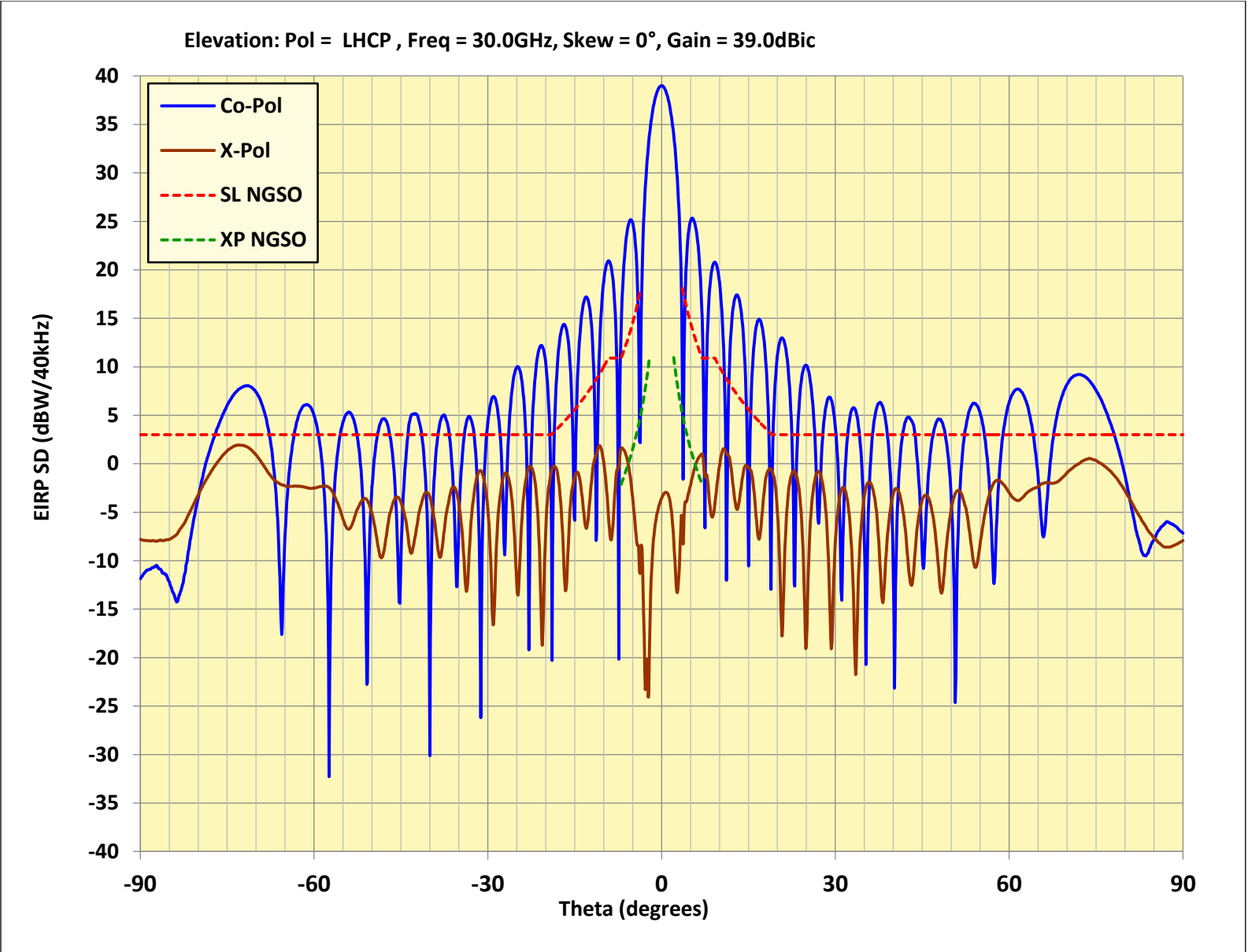
## **30 GHz at 0° Skew Angle**

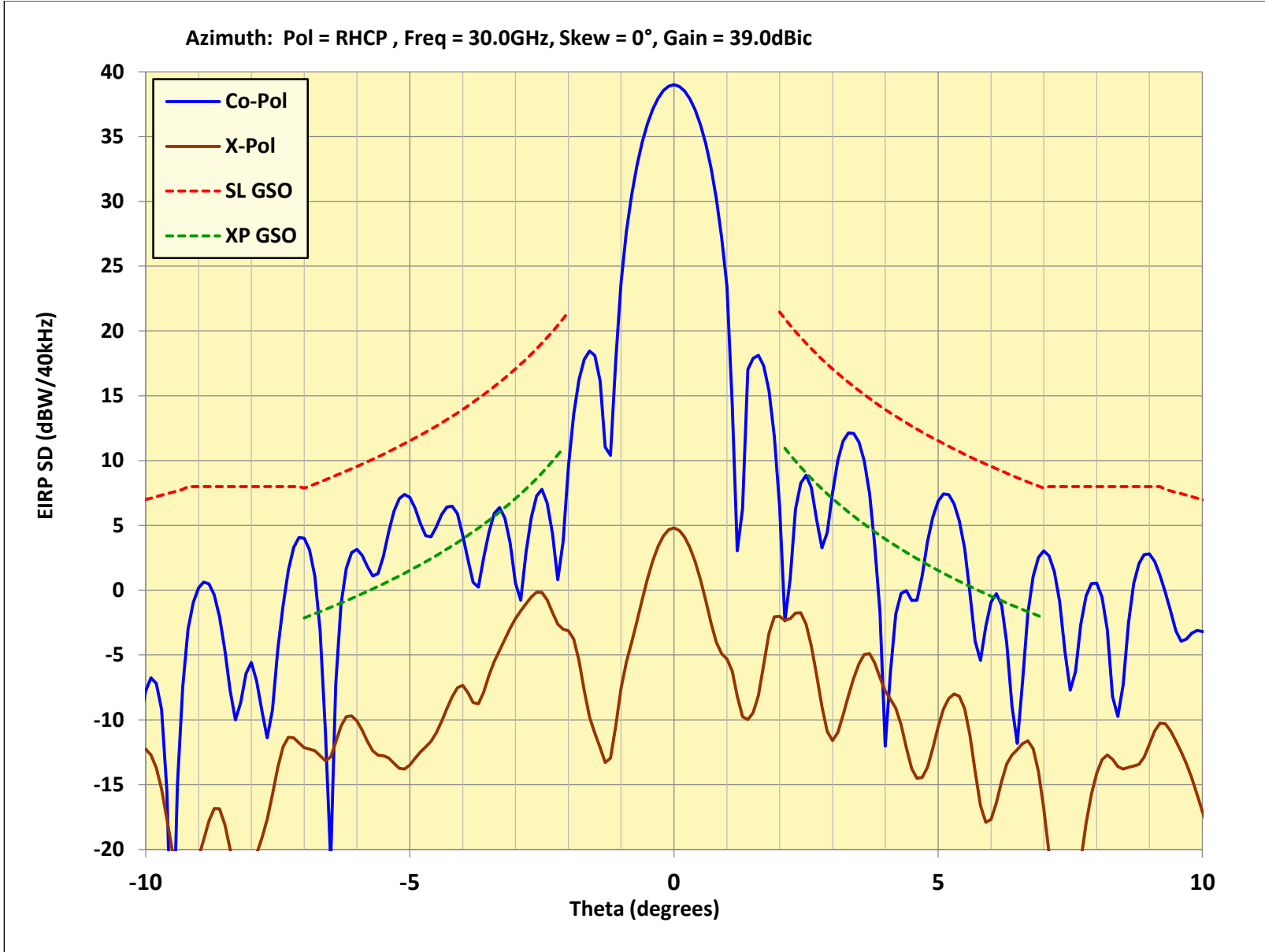


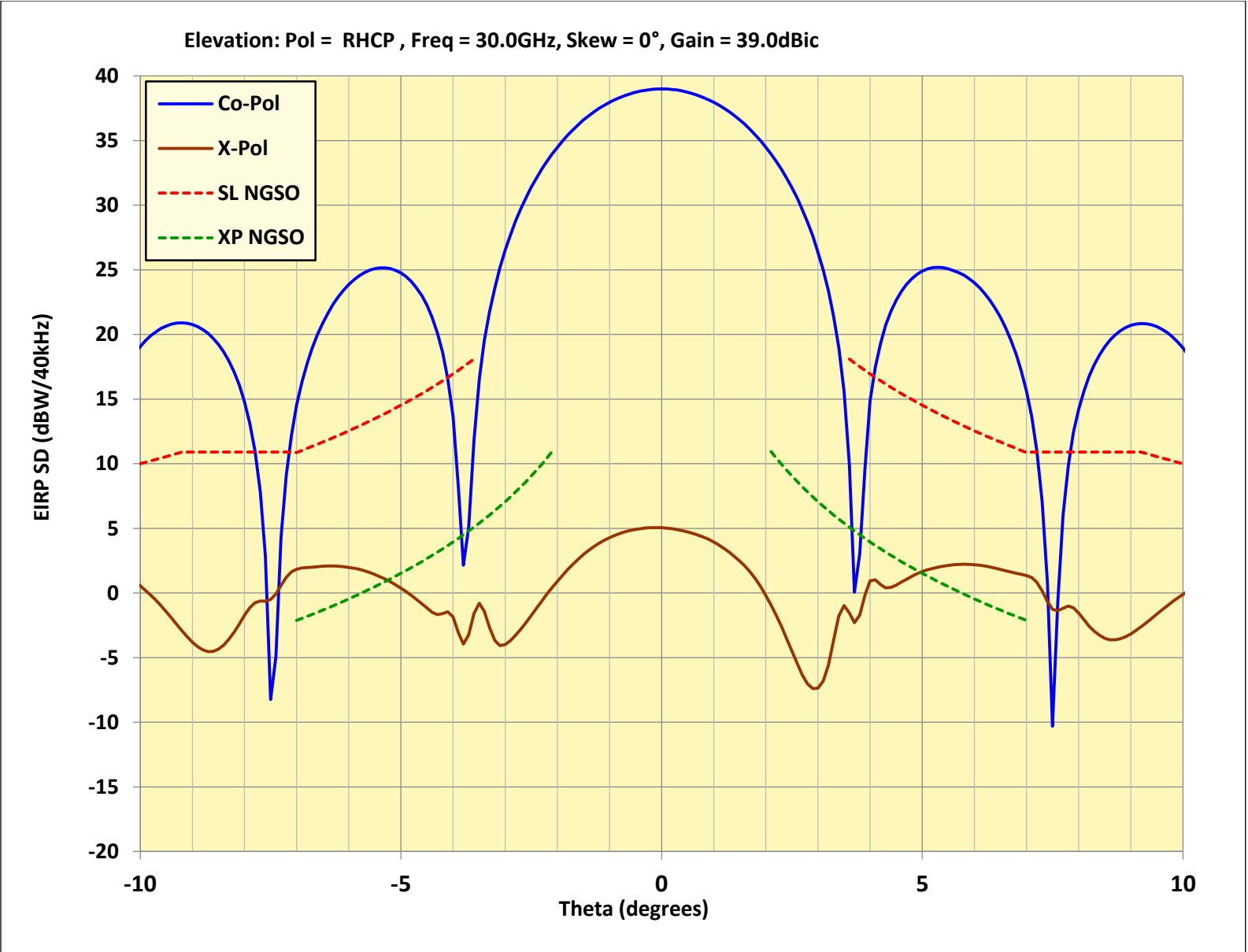


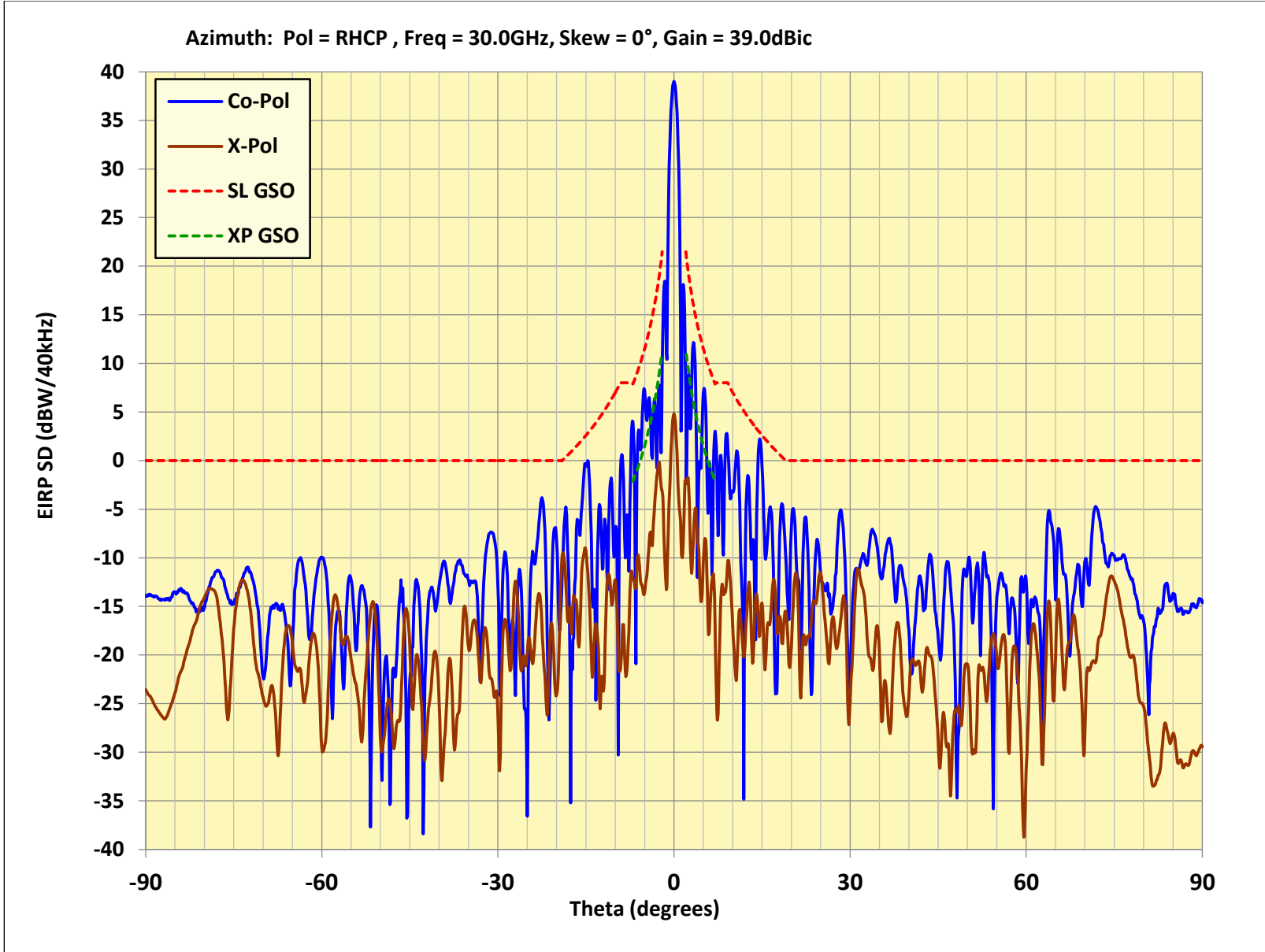


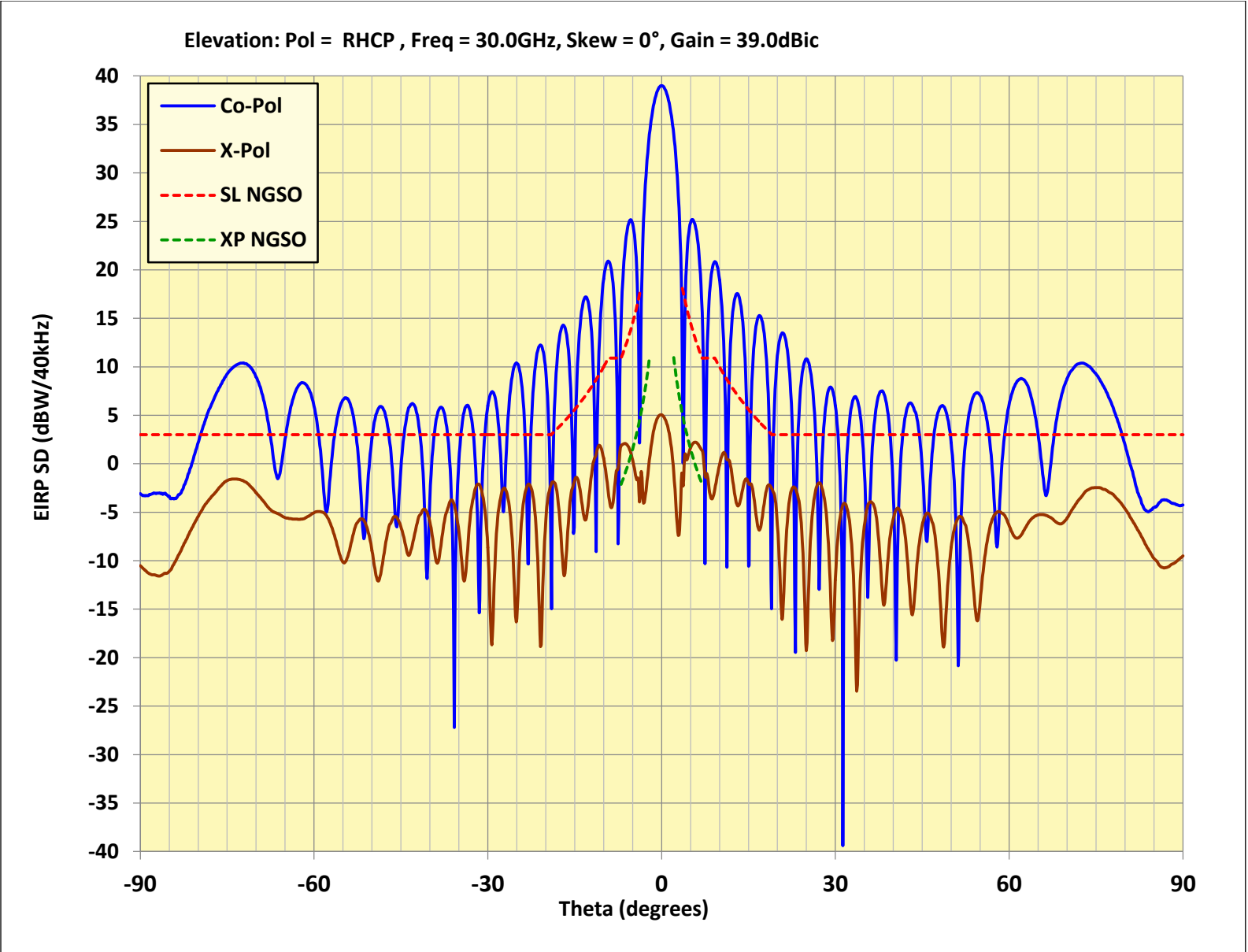












## **19.7 GHz Raw Data**

## LHCP, Co-Pol, Azimuth

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-21.05	-29.69	-27.46	-30.71	-31.86	-36.62	-37.67	-33.55	-29.31	-34.44	-31.82	-38.30	-42.89	-40.98	-32.95	-37.63	-33.10	-26.76	-5.37
-80.00	-13.94	-23.10	-36.24	-35.48	-32.11	-33.16	-38.32	-27.95	-41.15	-41.22	-29.98	-30.21	-35.24	-34.39	-34.95	-35.66	-28.18	-26.08	-2.12
-70.00	-11.51	-24.96	-23.38	-30.87	-21.95	-34.90	-24.98	-25.44	-38.64	-26.33	-30.36	-31.39	-34.06	-25.64	-31.69	-35.26	-27.52	-22.93	2.23
-60.00	-8.91	-17.69	-24.55	-25.21	-22.08	-33.36	-31.51	-23.63	-30.69	-24.41	-36.93	-36.20	-22.70	-23.19	-26.39	-23.54	-23.91	-27.55	3.99
-50.00	-3.72	-13.09	-16.00	-26.78	-22.90	-20.56	-27.76	-24.67	-31.11	-31.09	-20.79	-22.27	-23.55	-35.28	-26.73	-24.83	-22.59	-10.89	6.67
-40.00	-8.14	-10.58	-20.26	-15.75	-18.57	-20.62	-33.79	-23.97	-21.37	-24.10	-18.74	-18.90	-28.33	-26.44	-28.04	-14.85	-14.46	-26.60	9.24
-30.00	-15.90	-23.45	-24.72	-15.26	-23.33	-22.94	-20.17	-21.58	-26.43	-26.89	-18.38	-21.72	-26.37	-20.85	-17.93	-22.92	-17.54	-16.16	-4.88
-20.00	0.08	-0.31	-3.68	-16.75	-27.38	-13.80	-21.47	-26.45	-16.58	-15.57	-16.92	-19.66	-23.05	-24.88	-13.10	-8.29	-5.28	-3.71	15.18
-10.00	0.55	0.80	1.69	2.20	-0.01	-10.27	-12.55	-15.36	-14.87	-13.62	-3.38	-13.78	-0.54	-7.97	0.02	-0.08	-0.79	12.86	17.84
-9.00	3.42	1.82	-3.43	-10.36	-1.73	1.45	-1.65	-8.78	-11.26	-8.78	-15.72	-1.51	-7.17	1.79	-6.03	6.62	-3.91	17.36	21.39
-8.00	9.34	9.24	8.75	7.31	3.99	-0.78	0.47	-0.13	-7.86	-20.07	-10.72	-9.01	-3.11	0.58	-0.44	8.02	1.90	18.98	22.18
-7.00	5.95	6.26	7.21	8.14	8.33	6.55	0.53	-12.96	-1.58	-2.97	-12.18	-10.70	-7.87	-7.34	4.12	4.21	5.80	17.47	20.01
-6.00	3.98	2.46	-1.82	-14.75	-0.38	6.43	8.35	7.28	1.52	-12.85	-2.09	-4.89	-7.71	-1.55	-0.12	-2.80	-4.01	5.53	8.19
-5.00	13.77	13.63	13.16	12.18	10.06	5.13	-9.59	1.30	7.36	7.37	1.40	-3.08	7.15	8.02	3.08	7.18	14.93	18.10	19.03
-4.00	9.28	9.53	10.72	11.93	12.87	13.07	12.18	9.07	-2.65	3.51	12.06	14.69	13.98	8.44	11.73	20.01	24.34	26.58	27.27
-3.00	-0.27	-1.08	-4.28	-1.47	6.91	11.89	15.08	17.35	18.59	18.75	17.42	13.40	9.43	18.38	23.99	27.51	29.80	31.08	31.47
-2.00	20.77	20.73	20.53	20.17	19.46	18.40	16.59	13.37	10.48	14.27	19.67	23.63	26.72	29.03	30.84	32.20	33.19	33.76	33.93
-1.00	27.95	27.96	28.21	28.52	28.99	29.51	30.05	30.68	31.32	31.93	32.53	33.10	33.65	34.12	34.51	34.84	35.09	35.23	35.27
0.00	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70
1.00	27.89	28.03	28.29	28.59	28.97	29.51	30.12	30.70	31.31	31.96	32.59	33.16	33.67	34.15	34.55	34.87	35.08	35.22	35.27
2.00	21.01	20.98	20.84	20.51	19.95	18.95	17.26	14.46	11.36	14.21	19.65	23.75	26.73	29.11	30.92	32.27	33.19	33.75	33.93
3.00	1.44	0.14	-0.79	1.99	7.73	12.64	15.91	18.07	19.39	19.70	18.60	14.84	7.95	17.65	23.87	27.56	29.81	31.07	31.46
4.00	12.21	12.48	13.08	13.86	14.45	14.52	13.46	10.22	-0.48	5.93	13.74	16.43	16.00	10.65	8.83	19.65	24.30	26.59	27.24
5.00	12.83	12.68	12.24	11.22	9.01	4.02	0.81	6.36	9.60	8.95	1.47	1.48	10.02	11.27	5.67	3.99	14.56	18.07	18.86
6.00	7.72	7.04	4.97	2.46	2.72	5.87	7.75	6.32	-0.37	-5.54	1.15	-3.73	-6.20	0.77	-0.71	-3.35	-2.52	4.17	8.10
7.00	6.76	7.28	8.26	9.25	9.46	7.96	3.34	-3.74	-1.29	-3.81	-14.82	-23.61	-4.85	-4.48	-5.36	0.82	7.38	17.17	20.17
8.00	9.85	9.74	9.07	7.20	2.81	-3.51	-0.02	-0.07	-6.52	-15.41	-13.70	-10.57	-1.51	2.79	-10.51	5.84	4.41	18.78	22.30
9.00	1.95	1.36	-0.10	0.13	2.75	3.50	0.07	-11.74	-17.47	-8.46	-17.68	-3.17	-7.80	3.42	-1.69	5.13	-0.61	17.18	21.50
10.00	3.90	3.58	3.25	2.86	0.72	-4.83	-7.81	-13.26	-20.76	-9.84	-1.67	-12.26	-2.06	-5.19	2.07	-1.76	-0.69	12.71	17.91
20.00	-1.78	-1.79	-5.02	-16.67	-16.87	-12.05	-26.52	-36.76	-16.91	-15.19	-20.00	-21.94	-16.97	-26.18	-11.33	-9.31	-6.43	-3.90	15.03
30.00	-8.61	-10.53	-19.57	-15.11	-22.30	-18.97	-17.35	-22.69	-20.17	-24.63	-20.24	-29.51	-22.70	-16.25	-21.70	-22.62	-14.28	-19.98	-5.56
40.00	-7.45	-9.14	-20.04	-23.72	-24.68	-24.75	-23.53	-19.62	-26.29	-24.61	-22.02	-21.27	-18.17	-19.99	-28.11	-15.69	-13.57	-19.21	9.29
50.00	-4.76	-12.83	-19.29	-25.17	-21.97	-19.44	-33.60	-33.20	-32.56	-25.16	-27.88	-27.06	-23.86	-25.34	-29.57	-24.29	-30.14	-13.26	5.20
60.00	-7.82	-15.21	-22.43	-28.94	-32.01	-23.45	-33.78	-25.72	-29.83	-26.29	-39.05	-30.42	-37.20	-21.98	-31.45	-29.45	-25.75	-26.09	4.77
70.00	-9.73	-22.23	-28.20	-32.42	-28.35	-27.47	-24.72	-25.90	-28.89	-32.38	-28.80	-40.16	-37.42	-24.63	-31.79	-38.70	-23.73	-24.18	1.46
80.00	-16.00	-29.32	-27.08	-26.29	-28.31	-33.56	-34.92	-31.03	-40.58	-32.40	-37.01	-34.17	-31.39	-28.97	-30.97	-32.73	-30.77	-23.39	-1.53
90.00	-19.42	-31.49	-29.38	-31.14	-38.26	-36.68	-39.98	-30.94	-37.00	-39.75	-36.01	-35.10	-32.69	-34.36	-37.21	-36.97	-30.45	-25.61	-4.97



## LHCP, Co-Pol, Elevation

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-5.37	-26.76	-33.10	-37.63	-32.95	-40.98	-42.89	-38.30	-31.82	-34.44	-29.31	-33.55	-37.67	-36.62	-31.86	-30.71	-27.46	-29.69	-21.05
-80.00	-2.12	-26.08	-28.18	-35.66	-34.95	-34.39	-35.24	-30.21	-29.98	-41.22	-41.15	-27.95	-38.32	-33.16	-32.11	-35.48	-36.24	-23.10	-13.94
-70.00	2.23	-22.93	-27.52	-35.26	-31.69	-25.64	-34.06	-31.39	-30.36	-26.33	-38.64	-25.44	-24.98	-34.90	-21.95	-30.87	-23.38	-24.96	-11.51
-60.00	3.99	-27.55	-23.91	-23.54	-26.39	-23.19	-22.70	-36.20	-36.93	-24.41	-30.69	-23.63	-31.51	-33.36	-22.08	-25.21	-24.55	-17.69	-8.91
-50.00	6.67	-10.89	-22.59	-24.83	-26.73	-35.28	-23.55	-22.27	-20.79	-31.09	-31.11	-24.67	-27.76	-20.56	-22.90	-26.78	-16.00	-13.09	-3.72
-40.00	9.24	-26.60	-14.46	-14.85	-28.04	-26.44	-28.33	-18.90	-18.74	-24.10	-21.37	-23.97	-33.79	-20.62	-18.57	-15.75	-20.26	-10.58	-8.14
-30.00	-4.88	-16.16	-17.54	-22.92	-17.93	-20.85	-26.37	-21.72	-18.38	-26.89	-26.43	-21.58	-20.17	-22.94	-23.33	-15.26	-24.72	-23.45	-15.90
-20.00	15.18	-3.71	-5.28	-8.29	-13.10	-24.88	-23.05	-19.66	-16.92	-15.57	-16.58	-26.45	-21.47	-13.80	-27.38	-16.75	-3.68	-0.31	0.08
-10.00	17.84	12.86	-0.79	-0.08	0.02	-7.97	-0.54	-13.78	-3.38	-13.62	-14.87	-15.36	-12.55	-10.27	-0.01	2.20	1.69	0.80	0.55
-9.00	21.39	17.36	-3.91	6.62	-6.03	1.79	-7.17	-1.51	-15.72	-8.78	-11.26	-8.78	-1.65	1.45	-1.73	-10.36	-3.43	1.82	3.42
-8.00	22.18	18.98	1.90	8.02	-0.44	0.58	-3.11	-9.01	-10.72	-20.07	-7.86	-0.13	0.47	-0.78	3.99	7.31	8.75	9.24	9.34
-7.00	20.01	17.47	5.80	4.21	4.12	-7.34	-7.87	-10.70	-12.18	-2.97	-1.58	-12.96	0.53	6.55	8.33	8.14	7.21	6.26	5.95
-6.00	8.19	5.53	-4.01	-2.80	-0.12	-1.55	-7.71	-4.89	-2.09	-12.85	1.52	7.28	8.35	6.43	-0.38	-14.75	-1.82	2.46	3.98
-5.00	19.03	18.10	14.93	7.18	3.08	8.02	7.15	-3.08	1.40	7.37	7.36	1.30	-9.59	5.13	10.06	12.18	13.16	13.63	13.77
-4.00	27.27	26.58	24.34	20.01	11.73	8.44	13.98	14.69	12.06	3.51	-2.65	9.07	12.18	13.07	12.87	11.93	10.72	9.53	9.28
-3.00	31.47	31.08	29.80	27.51	23.99	18.38	9.43	13.40	17.42	18.75	18.59	17.35	15.08	11.89	6.91	-1.47	-4.28	-1.08	-0.27
-2.00	33.93	33.76	33.19	32.20	30.84	29.03	26.72	23.63	19.67	14.27	10.48	13.37	16.59	18.40	19.46	20.17	20.53	20.73	20.77
-1.00	35.27	35.23	35.09	34.84	34.51	34.12	33.65	33.10	32.53	31.93	31.32	30.68	30.05	29.51	28.99	28.52	28.21	27.96	27.95
0.00	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70	35.70
1.00	35.27	35.22	35.08	34.87	34.55	34.15	33.67	33.16	32.59	31.96	31.31	30.70	30.12	29.51	28.97	28.59	28.29	28.03	27.89
2.00	33.93	33.75	33.19	32.27	30.92	29.11	26.73	23.75	19.65	14.21	11.36	14.46	17.26	18.95	19.95	20.51	20.84	20.98	21.01
3.00	31.46	31.07	29.81	27.56	23.87	17.65	7.95	14.84	18.60	19.70	19.39	18.07	15.91	12.64	7.73	1.99	-0.79	0.14	1.44
4.00	27.24	26.59	24.30	19.65	8.83	10.65	16.00	16.43	13.74	5.93	-0.48	10.22	13.46	14.52	14.45	13.86	13.08	12.48	12.21
5.00	18.86	18.07	14.56	3.99	5.67	11.27	10.02	1.48	1.47	8.95	9.60	6.36	0.81	4.02	9.01	11.22	12.24	12.68	12.83
6.00	8.10	4.17	-2.52	-3.35	-0.71	0.77	-6.20	-3.73	1.15	-5.54	-0.37	6.32	7.75	5.87	2.72	2.46	4.97	7.04	7.72
7.00	20.17	17.17	7.38	0.82	-5.36	-4.48	-4.85	-23.61	-14.82	-3.81	-1.29	-3.74	3.34	7.96	9.46	9.25	8.26	7.28	6.76
8.00	22.30	18.78	4.41	5.84	-10.51	2.79	-1.51	-10.57	-13.70	-15.41	-6.52	-0.07	-0.02	-3.51	2.81	7.20	9.07	9.74	9.85
9.00	21.50	17.18	-0.61	5.13	-1.69	3.42	-7.80	-3.17	-17.68	-8.46	-17.47	-11.74	0.07	3.50	2.75	0.13	-0.10	1.36	1.95
10.00	17.91	12.71	-0.69	-1.76	2.07	-5.19	-2.06	-12.26	-1.67	-9.84	-20.76	-13.26	-7.81	-4.83	0.72	2.86	3.25	3.58	3.90
20.00	15.03	-3.90	-6.43	-9.31	-11.33	-26.18	-16.97	-21.94	-20.00	-15.19	-16.91	-36.76	-26.52	-12.05	-16.87	-16.67	-5.02	-1.79	-1.78
30.00	-5.56	-19.98	-14.28	-22.62	-21.70	-16.25	-22.70	-29.51	-20.24	-24.63	-20.17	-22.69	-17.35	-18.97	-22.30	-15.11	-19.57	-10.53	-8.61
40.00	9.29	-19.21	-13.57	-15.69	-28.11	-19.99	-18.17	-21.27	-22.02	-24.61	-26.29	-19.62	-23.53	-24.75	-24.68	-23.72	-20.04	-9.14	-7.45
50.00	5.20	-13.26	-30.14	-24.29	-29.57	-25.34	-23.86	-27.06	-27.88	-25.16	-32.56	-33.20	-33.60	-19.44	-21.97	-25.17	-19.29	-12.83	-4.76
60.00	4.77	-26.09	-25.75	-29.45	-31.45	-21.98	-37.20	-30.42	-39.05	-26.29	-29.83	-25.72	-33.78	-23.45	-32.01	-28.94	-22.43	-15.21	-7.82
70.00	1.46	-24.18	-23.73	-38.70	-31.79	-24.63	-37.42	-40.16	-28.80	-32.38	-28.89	-25.90	-24.72	-27.47	-28.35	-32.42	-28.20	-22.23	-9.73
80.00	-1.53	-23.39	-30.77	-32.73	-30.97	-28.97	-31.39	-34.17	-37.01	-32.40	-40.58	-31.03	-34.92	-33.56	-28.31	-26.29	-27.08	-29.32	-16.00
90.00	-4.97	-25.61	-30.45	-36.97	-37.21	-34.36	-32.69	-35.10	-36.01	-39.75	-37.00	-30.94	-39.98	-36.68	-38.26	-31.14	-29.38	-31.49	-19.42

## LHCP, Cross-Pol, Azimuth

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-24.96	-37.15	-39.36	-36.31	-36.74	-43.06	-41.93	-41.93	-37.60	-48.47	-44.38	-44.34	-41.89	-45.80	-39.24	-43.05	-34.83	-33.99	-9.89
-80.00	-23.15	-35.40	-40.70	-43.49	-37.05	-47.16	-43.98	-41.71	-44.24	-49.00	-42.00	-40.21	-37.76	-44.24	-31.87	-39.81	-43.03	-36.50	-8.50
-70.00	-32.53	-30.55	-27.53	-38.87	-30.48	-38.14	-36.17	-30.68	-46.95	-32.78	-32.80	-35.11	-39.79	-32.75	-36.93	-44.89	-34.66	-34.71	-16.53
-60.00	-19.24	-30.27	-33.23	-29.24	-37.54	-27.85	-46.39	-32.00	-37.05	-30.83	-32.11	-41.58	-27.69	-29.99	-33.50	-29.95	-30.02	-30.11	-6.22
-50.00	-23.48	-25.35	-25.53	-32.20	-30.26	-28.79	-27.49	-39.11	-39.84	-35.51	-35.07	-33.09	-27.72	-41.43	-39.73	-27.49	-28.40	-25.32	-3.25
-40.00	-16.57	-20.92	-27.04	-29.00	-31.37	-39.26	-30.87	-24.92	-26.63	-26.28	-25.38	-33.55	-37.28	-25.44	-29.20	-25.09	-25.59	-32.99	-12.00
-30.00	-17.36	-21.75	-29.92	-29.02	-33.93	-32.04	-26.38	-28.73	-31.40	-29.15	-29.06	-28.41	-34.04	-35.31	-31.84	-31.87	-27.35	-22.45	-5.29
-20.00	-24.02	-21.46	-22.64	-28.86	-42.73	-29.69	-23.74	-26.11	-31.27	-22.37	-27.86	-28.89	-29.08	-27.58	-21.75	-22.14	-24.02	-26.88	-14.23
-10.00	-15.32	-16.36	-19.21	-23.84	-25.03	-27.78	-20.86	-25.72	-23.88	-20.54	-19.62	-22.25	-20.18	-18.95	-31.59	-18.45	-25.38	-9.33	-4.03
-9.00	-9.69	-9.98	-11.07	-14.48	-13.45	-17.27	-22.13	-25.08	-20.85	-21.40	-22.29	-18.89	-18.94	-21.14	-18.68	-17.59	-19.77	-10.24	-7.44
-8.00	-9.16	-10.16	-11.08	-13.19	-13.80	-13.56	-15.13	-21.17	-22.58	-25.36	-19.88	-19.68	-14.48	-13.98	-15.97	-14.88	-17.87	-9.14	-7.96
-7.00	-7.63	-7.40	-7.37	-8.38	-11.08	-15.70	-17.24	-18.90	-16.35	-18.05	-19.55	-17.63	-12.55	-12.78	-15.33	-11.17	-12.65	-6.04	-4.08
-6.00	-9.92	-9.31	-10.27	-11.61	-9.83	-8.73	-8.75	-9.73	-11.89	-16.07	-14.08	-13.96	-13.76	-10.61	-9.73	-10.07	-9.59	-2.04	0.06
-5.00	-5.98	-5.32	-4.81	-4.99	-5.35	-7.39	-11.04	-11.37	-12.45	-11.55	-13.31	-12.72	-9.08	-7.45	-9.39	-4.88	-5.62	-1.49	1.78
-4.00	-6.78	-7.23	-8.00	-10.73	-12.56	-12.68	-11.04	-9.60	-13.16	-12.80	-10.94	-7.75	-6.41	-8.18	-9.14	-9.95	-4.01	-1.07	1.31
-3.00	-12.38	-9.54	-9.56	-10.13	-9.05	-8.48	-8.13	-9.97	-9.61	-8.15	-7.71	-9.49	-13.10	-14.14	-7.96	-3.74	-0.93	0.64	1.63
-2.00	-9.45	-8.84	-8.31	-8.89	-9.52	-10.65	-11.35	-14.07	-17.23	-16.22	-13.52	-8.88	-4.42	-1.70	0.14	1.25	2.48	3.37	3.56
-1.00	-5.82	-6.35	-6.39	-6.29	-5.12	-3.46	-2.66	-1.11	0.18	1.28	2.53	3.23	3.92	4.30	4.58	4.79	5.13	5.38	5.37
0.00	5.79	5.81	5.82	5.85	5.88	5.89	5.91	5.93	5.94	5.95	5.97	5.98	5.99	6.00	6.03	6.03	6.03	6.04	6.04
1.00	-2.88	-1.90	-1.21	-0.56	-0.10	0.21	0.91	1.19	1.60	1.99	2.32	2.72	3.17	3.64	4.30	4.89	5.21	5.47	5.77
2.00	-9.49	-9.55	-10.16	-10.51	-11.31	-12.11	-12.91	-13.36	-12.21	-10.81	-7.49	-4.25	-2.46	-0.81	0.75	2.04	3.08	3.85	4.54
3.00	-11.69	-11.69	-12.99	-13.02	-12.57	-11.25	-9.77	-11.20	-12.69	-14.29	-15.43	-15.14	-12.01	-6.54	-3.21	-0.88	0.69	1.82	2.36
4.00	-7.81	-7.84	-6.96	-7.21	-7.57	-9.02	-9.85	-8.88	-9.76	-10.94	-12.81	-15.70	-15.54	-12.63	-7.79	-3.99	-1.63	0.06	-0.36
5.00	-0.27	-0.64	-1.12	-2.29	-3.57	-6.54	-9.27	-9.96	-12.74	-14.19	-14.44	-15.09	-13.96	-12.88	-10.27	-8.34	-3.64	-0.46	-1.46
6.00	-3.62	-3.28	-3.00	-4.01	-4.69	-5.34	-6.89	-8.83	-13.09	-14.46	-16.69	-21.84	-24.45	-11.44	-9.79	-10.07	-9.44	-5.45	-1.15
7.00	-7.58	-6.84	-5.82	-5.58	-5.59	-6.82	-8.06	-10.47	-13.96	-24.12	-20.07	-19.79	-18.44	-26.55	-14.26	-11.08	-9.04	-6.74	-3.93
8.00	-11.91	-10.85	-11.06	-13.50	-16.05	-16.09	-14.13	-15.38	-16.49	-23.40	-18.09	-13.99	-20.71	-22.21	-20.83	-10.85	-11.43	-11.28	-5.54
9.00	-15.21	-15.90	-16.46	-15.30	-12.64	-15.22	-20.71	-16.83	-19.37	-17.18	-25.76	-13.08	-15.94	-23.71	-20.59	-14.52	-15.88	-16.30	-8.00
10.00	-12.24	-11.86	-11.85	-14.62	-20.72	-23.08	-15.83	-17.94	-23.33	-19.80	-17.50	-22.64	-13.30	-19.03	-20.63	-22.43	-15.43	-14.53	-9.48
20.00	-16.44	-18.66	-25.43	-27.52	-24.49	-26.07	-30.69	-34.94	-34.33	-21.62	-25.36	-26.96	-28.58	-34.42	-30.22	-17.99	-28.44	-17.47	-11.66
30.00	-18.04	-18.20	-23.40	-26.76	-28.95	-35.64	-31.87	-31.42	-28.98	-28.87	-29.02	-28.93	-33.52	-27.36	-38.15	-30.55	-28.36	-25.27	-6.92
40.00	-15.81	-22.13	-26.02	-28.71	-24.01	-28.69	-29.43	-30.72	-33.97	-24.28	-31.35	-32.83	-40.68	-28.81	-25.00	-24.69	-26.18	-30.82	-21.06
50.00	-20.52	-26.42	-23.03	-30.69	-29.06	-27.23	-25.32	-41.34	-45.14	-29.83	-31.52	-32.49	-34.34	-31.28	-33.90	-27.14	-36.85	-26.29	-7.86
60.00	-26.95	-36.99	-27.34	-34.06	-33.94	-35.32	-42.32	-32.17	-33.10	-30.70	-45.12	-34.79	-36.30	-29.14	-34.77	-36.08	-41.45	-33.69	-7.58
70.00	-22.87	-26.30	-30.19	-35.49	-31.19	-34.80	-30.15	-36.46	-38.27	-39.35	-34.66	-39.72	-34.11	-30.78	-35.56	-40.79	-30.79	-30.72	-12.19
80.00	-29.91	-32.93	-33.56	-48.51	-44.23	-41.27	-41.08	-41.09	-43.41	-40.98	-39.88	-49.70	-38.44	-36.88	-39.88	-40.40	-46.88	-34.15	-10.44
90.00	-24.25	-37.69	-35.58	-38.66	-42.66	-41.59	-46.34	-38.87	-42.09	-47.43	-45.85	-41.05	-40.93	-40.22	-42.89	-39.96	-38.26	-40.19	-10.70

## LHCP, Cross-Pol, Elevation

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-9.89	-33.99	-34.83	-43.05	-39.24	-45.80	-41.89	-44.34	-44.38	-48.47	-37.60	-41.93	-41.93	-43.06	-36.74	-36.31	-39.36	-37.15	-24.96
-80.00	-8.50	-36.50	-43.03	-39.81	-31.87	-44.24	-37.76	-40.21	-42.00	-49.00	-44.24	-41.71	-43.98	-47.16	-37.05	-43.49	-40.70	-35.40	-23.15
-70.00	-16.53	-34.71	-34.66	-44.89	-36.93	-32.75	-39.79	-35.11	-32.80	-32.78	-46.95	-30.68	-36.17	-38.14	-30.48	-38.87	-27.53	-30.55	-32.53
-60.00	-6.22	-30.11	-30.02	-29.95	-33.50	-29.99	-27.69	-41.58	-32.11	-30.83	-37.05	-32.00	-46.39	-27.85	-37.54	-29.24	-33.23	-30.27	-19.24
-50.00	-3.25	-25.32	-28.40	-27.49	-39.73	-41.43	-27.72	-33.09	-35.07	-35.51	-39.84	-39.11	-27.49	-28.79	-30.26	-32.20	-25.53	-25.35	-23.48
-40.00	-12.00	-32.99	-25.59	-25.09	-29.20	-25.44	-37.28	-33.55	-25.38	-26.28	-26.63	-24.92	-30.87	-39.26	-31.37	-29.00	-27.04	-20.92	-16.57
-30.00	-5.29	-22.45	-27.35	-31.87	-31.84	-35.31	-34.04	-28.41	-29.06	-29.15	-31.40	-28.73	-26.38	-32.04	-33.93	-29.02	-29.92	-21.75	-17.36
-20.00	-14.23	-26.88	-24.02	-22.14	-21.75	-27.58	-29.08	-28.89	-27.86	-22.37	-31.27	-26.11	-23.74	-29.69	-42.73	-28.86	-22.64	-21.46	-24.02
-10.00	-4.03	-9.33	-25.38	-18.45	-31.59	-18.95	-20.18	-22.25	-19.62	-20.54	-23.88	-25.72	-20.86	-27.78	-25.03	-23.84	-19.21	-16.36	-15.32
-9.00	-7.44	-10.24	-19.77	-17.59	-18.68	-21.14	-18.94	-18.89	-22.29	-21.40	-20.85	-25.08	-22.13	-17.27	-13.45	-14.48	-11.07	-9.98	-9.69
-8.00	-7.96	-9.14	-17.87	-14.88	-15.97	-13.98	-14.48	-19.68	-19.88	-25.36	-22.58	-21.17	-15.13	-13.56	-13.80	-13.19	-11.08	-10.16	-9.16
-7.00	-4.08	-6.04	-12.65	-11.17	-15.33	-12.78	-12.55	-17.63	-19.55	-18.05	-16.35	-18.90	-17.24	-15.70	-11.08	-8.38	-7.37	-7.40	-7.63
-6.00	0.06	-2.04	-9.59	-10.07	-9.73	-10.61	-13.76	-13.96	-14.08	-16.07	-11.89	-9.73	-8.75	-8.73	-9.83	-11.61	-10.27	-9.31	-9.92
-5.00	1.78	-1.49	-5.62	-4.88	-9.39	-7.45	-9.08	-12.72	-13.31	-11.55	-12.45	-11.37	-11.04	-7.39	-5.35	-4.99	-4.81	-5.32	-5.98
-4.00	1.31	-1.07	-4.01	-9.95	-9.14	-8.18	-6.41	-7.75	-10.94	-12.80	-13.16	-9.60	-11.04	-12.68	-12.56	-10.73	-8.00	-7.23	-6.78
-3.00	1.63	0.64	-0.93	-3.74	-7.96	-14.14	-13.10	-9.49	-7.71	-8.15	-9.61	-9.97	-8.13	-8.48	-9.05	-10.13	-9.56	-9.54	-12.38
-2.00	3.56	3.37	2.48	1.25	0.14	-1.70	-4.42	-8.88	-13.52	-16.22	-17.23	-14.07	-11.35	-10.65	-9.52	-8.89	-8.31	-8.84	-9.45
-1.00	5.37	5.38	5.13	4.79	4.58	4.30	3.92	3.23	2.53	1.28	0.18	-1.11	-2.66	-3.46	-5.12	-6.29	-6.39	-6.35	-5.82
0.00	6.04	6.04	6.03	6.03	6.03	6.00	5.99	5.98	5.97	5.95	5.94	5.93	5.91	5.89	5.88	5.85	5.82	5.81	5.79
1.00	5.77	5.47	5.21	4.89	4.30	3.64	3.17	2.72	2.32	1.99	1.60	1.19	0.91	0.21	-0.10	-0.56	-1.21	-1.90	-2.88
2.00	4.54	3.85	3.08	2.04	0.75	-0.81	-2.46	-4.25	-7.49	-10.81	-12.21	-13.36	-12.91	-12.11	-11.31	-10.51	-10.16	-9.55	-9.49
3.00	2.36	1.82	0.69	-0.88	-3.21	-6.54	-12.01	-15.14	-15.43	-14.29	-12.69	-11.20	-9.77	-11.25	-12.57	-13.02	-12.99	-11.69	-11.69
4.00	-0.36	0.06	-1.63	-3.99	-7.79	-12.63	-15.54	-15.70	-12.81	-10.94	-9.76	-8.88	-9.85	-9.02	-7.57	-7.21	-6.96	-7.84	-7.81
5.00	-1.46	-0.46	-3.64	-8.34	-10.27	-12.88	-13.96	-15.09	-14.44	-14.19	-12.74	-9.96	-9.27	-6.54	-3.57	-2.29	-1.12	-0.64	-0.27
6.00	-1.15	-5.45	-9.44	-10.07	-9.79	-11.44	-24.45	-21.84	-16.69	-14.46	-13.09	-8.83	-6.89	-5.34	-4.69	-4.01	-3.00	-3.28	-3.62
7.00	-3.93	-6.74	-9.04	-11.08	-14.26	-26.55	-18.44	-19.79	-20.07	-24.12	-13.96	-10.47	-8.06	-6.82	-5.59	-5.58	-5.82	-6.84	-7.58
8.00	-5.54	-11.28	-11.43	-10.85	-20.83	-22.21	-20.71	-13.99	-18.09	-23.40	-16.49	-15.38	-14.13	-16.09	-16.05	-13.50	-11.06	-10.85	-11.91
9.00	-8.00	-16.30	-15.88	-14.52	-20.59	-23.71	-15.94	-13.08	-25.76	-17.18	-19.37	-16.83	-20.71	-15.22	-12.64	-15.30	-16.46	-15.90	-15.21
10.00	-9.48	-14.53	-15.43	-22.43	-20.63	-19.03	-13.30	-22.64	-17.50	-19.80	-23.33	-17.94	-15.83	-23.08	-20.72	-14.62	-11.85	-11.86	-12.24
20.00	-11.66	-17.47	-28.44	-17.99	-30.22	-34.42	-28.58	-26.96	-25.36	-21.62	-34.33	-34.94	-30.69	-26.07	-24.49	-27.52	-25.43	-18.66	-16.44
30.00	-6.92	-25.27	-28.36	-30.55	-38.15	-27.36	-33.52	-28.93	-29.02	-28.87	-28.98	-31.42	-31.87	-35.64	-28.95	-26.76	-23.40	-18.20	-18.04
40.00	-21.06	-30.82	-26.18	-24.69	-25.00	-28.81	-40.68	-32.83	-31.35	-24.28	-33.97	-30.72	-29.43	-28.69	-24.01	-28.71	-26.02	-22.13	-15.81
50.00	-7.86	-26.29	-36.85	-27.14	-33.90	-31.28	-34.34	-32.49	-31.52	-29.83	-45.14	-41.34	-25.32	-27.23	-29.06	-30.69	-23.03	-26.42	-20.52
60.00	-7.58	-33.69	-41.45	-36.08	-34.77	-29.14	-36.30	-34.79	-45.12	-30.70	-33.10	-32.17	-42.32	-35.32	-33.94	-34.06	-27.34	-36.99	-26.95
70.00	-12.19	-30.72	-30.79	-40.79	-35.56	-30.78	-34.11	-39.72	-34.66	-39.35	-38.27	-36.46	-30.15	-34.80	-31.19	-35.49	-30.19	-26.30	-22.87
80.00	-10.44	-34.15	-46.88	-40.40	-39.88	-36.88	-38.44	-49.70	-39.88	-40.98	-43.41	-41.09	-41.08	-41.27	-44.23	-48.51	-33.56	-32.93	-29.91
90.00	-10.70	-40.19	-38.26	-39.96	-42.89	-40.22	-40.93	-41.05	-45.85	-47.43	-42.09	-38.87	-46.34	-41.59	-42.66	-38.66	-35.58	-37.69	-24.25

## RHCP, Co-Pol, Azimuth

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-22.51	-40.38	-33.51	-38.97	-34.51	-35.31	-36.39	-35.66	-35.37	-43.29	-36.72	-33.22	-38.64	-30.03	-40.21	-31.50	-35.58	-25.19	-6.70
-80.00	-16.85	-27.86	-39.75	-42.50	-31.09	-31.10	-30.14	-26.51	-32.57	-38.49	-34.82	-32.16	-27.64	-23.57	-35.26	-32.02	-30.02	-21.91	-2.97
-70.00	-12.26	-28.34	-24.19	-32.88	-22.99	-26.89	-27.27	-31.64	-28.18	-28.86	-30.82	-26.41	-30.62	-24.26	-23.83	-32.69	-40.50	-25.40	1.58
-60.00	-12.27	-21.53	-29.86	-29.43	-28.68	-24.13	-36.49	-23.09	-27.78	-28.22	-32.89	-27.76	-28.30	-29.71	-36.78	-26.73	-24.34	-30.68	3.14
-50.00	-3.50	-16.59	-19.14	-26.93	-21.03	-27.11	-24.48	-34.59	-24.63	-26.95	-19.89	-25.83	-23.00	-30.27	-20.32	-21.24	-21.99	-13.13	6.20
-40.00	-9.59	-10.86	-18.23	-20.81	-23.17	-19.89	-36.68	-24.11	-25.24	-19.67	-28.67	-20.10	-24.51	-24.66	-21.83	-19.27	-18.55	-22.79	8.98
-30.00	-16.86	-18.60	-23.53	-15.64	-23.00	-20.83	-20.02	-22.00	-25.74	-29.47	-20.80	-24.71	-26.36	-23.63	-19.05	-19.31	-23.46	-13.36	-5.29
-20.00	-0.98	-1.05	-4.33	-18.09	-23.22	-15.26	-19.55	-28.25	-15.17	-20.81	-15.73	-24.41	-22.42	-28.07	-14.44	-9.17	-5.43	-4.61	14.94
-10.00	-0.48	-0.32	0.55	1.06	-1.16	-11.91	-11.32	-15.00	-16.12	-14.79	-4.67	-15.17	-0.74	-9.87	0.05	-1.26	-1.93	12.66	17.62
-9.00	2.80	1.33	-3.74	-8.71	-2.44	0.90	-2.49	-9.94	-11.71	-11.52	-17.68	-1.41	-8.96	2.06	-5.40	5.88	-5.55	17.24	21.20
-8.00	8.65	8.50	7.98	6.40	2.73	-0.94	0.38	-0.19	-8.41	-21.21	-11.98	-10.03	-1.42	1.51	-2.09	7.34	2.11	18.88	22.00
-7.00	5.54	5.98	6.91	7.76	7.85	6.04	-0.55	-14.65	-2.45	-3.76	-11.08	-7.79	-5.00	-6.31	3.01	3.21	5.96	17.38	19.83
-6.00	2.47	1.18	-4.14	-10.40	-0.42	6.40	8.26	7.13	1.54	-11.02	-2.88	-6.27	-5.73	-1.03	-0.20	-2.78	-5.15	5.39	7.98
-5.00	13.62	13.51	13.06	12.11	10.14	5.50	-6.61	0.83	6.85	6.92	0.70	-1.69	7.36	8.09	3.35	6.91	14.69	17.96	18.94
-4.00	9.14	9.36	10.57	11.72	12.58	12.79	11.94	8.97	-1.64	3.85	11.85	14.40	13.70	8.37	11.54	19.91	24.23	26.48	27.16
-3.00	-4.30	-3.33	-3.46	-3.05	6.19	11.44	14.79	16.96	18.20	18.36	17.03	13.09	9.59	18.31	23.89	27.44	29.71	30.99	31.37
-2.00	20.41	20.35	20.14	19.75	19.08	17.97	16.08	12.87	10.25	14.26	19.60	23.55	26.63	28.95	30.74	32.12	33.10	33.67	33.83
-1.00	27.83	27.84	28.11	28.43	28.88	29.36	29.95	30.53	31.17	31.82	32.44	33.01	33.56	34.02	34.41	34.74	34.99	35.14	35.17
0.00	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60
1.00	27.82	27.98	28.14	28.50	28.92	29.44	30.01	30.66	31.29	31.90	32.51	33.11	33.60	34.08	34.47	34.77	34.99	35.12	35.17
2.00	21.00	20.97	20.85	20.52	19.96	18.95	17.30	14.44	11.41	14.04	19.53	23.68	26.67	29.03	30.85	32.18	33.09	33.64	33.83
3.00	1.79	1.05	-0.12	2.46	8.28	12.74	15.88	18.13	19.45	19.74	18.65	14.97	8.09	17.51	23.81	27.46	29.70	30.96	31.36
4.00	11.79	12.08	12.75	13.61	14.30	14.39	13.36	10.13	-0.54	6.18	13.83	16.53	16.12	10.93	8.64	19.53	24.20	26.48	27.13
5.00	13.17	13.02	12.56	11.54	9.36	4.66	-0.98	5.68	9.46	8.89	1.80	1.53	10.25	11.44	6.15	4.08	14.50	17.96	18.69
6.00	7.89	7.40	5.76	3.22	2.59	5.69	7.77	6.56	-0.07	-7.30	1.13	-3.53	-6.50	0.03	0.35	-2.64	-1.84	4.03	8.48
7.00	6.61	7.43	8.52	9.67	9.95	8.46	4.01	-3.43	-1.49	-3.94	-14.05	-18.22	-4.76	-5.04	-6.31	0.65	7.35	17.04	20.19
8.00	10.29	10.23	9.58	7.70	3.13	-3.57	0.46	0.50	-6.68	-18.36	-13.83	-8.87	-1.84	2.56	-11.11	6.01	4.50	18.63	22.30
9.00	1.91	1.13	-1.32	-1.44	2.97	3.79	0.06	-11.73	-19.65	-8.60	-15.67	-3.08	-8.25	3.11	-2.46	5.31	0.15	17.01	21.49
10.00	4.22	4.27	4.19	3.70	1.30	-5.21	-8.50	-13.99	-18.67	-10.83	-2.12	-12.52	-1.39	-6.40	1.89	-1.42	0.57	12.48	17.93
20.00	-1.03	-1.19	-4.16	-14.30	-21.78	-12.91	-26.35	-23.77	-18.72	-14.86	-19.33	-19.65	-18.61	-23.27	-10.23	-10.41	-5.08	-3.53	14.94
30.00	-10.45	-11.69	-16.68	-15.90	-16.88	-24.41	-14.67	-17.46	-17.44	-27.58	-14.58	-24.90	-20.28	-23.65	-15.73	-33.92	-14.76	-20.30	-4.57
40.00	-8.18	-9.87	-22.78	-24.45	-21.98	-21.14	-26.08	-16.67	-20.50	-22.88	-23.55	-18.99	-20.33	-36.64	-28.64	-17.52	-13.43	-17.03	9.57
50.00	-5.22	-13.32	-22.69	-25.52	-26.31	-26.44	-31.08	-26.13	-27.18	-21.19	-29.82	-25.85	-25.50	-24.48	-21.14	-19.94	-18.08	-14.48	5.23
60.00	-6.86	-15.04	-22.51	-25.84	-24.14	-25.30	-28.63	-23.18	-28.97	-38.88	-26.80	-25.28	-26.24	-26.16	-23.58	-25.28	-22.53	-26.41	5.00
70.00	-8.96	-20.81	-26.39	-28.09	-24.96	-30.14	-23.56	-31.59	-33.37	-32.61	-37.60	-28.87	-30.97	-23.70	-36.11	-34.90	-27.27	-25.15	2.15
80.00	-13.60	-31.38	-31.78	-28.84	-28.95	-30.43	-44.22	-23.00	-34.46	-37.19	-33.49	-35.44	-36.28	-29.60	-33.33	-34.89	-23.65	-22.39	-1.57
90.00	-17.36	-28.30	-30.92	-34.46	-31.61	-33.76	-38.06	-33.96	-45.22	-38.57	-39.27	-31.53	-37.63	-34.68	-31.58	-33.98	-28.91	-26.17	-4.78

## RHCP, Co-Pol, Elevation

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-6.70	-25.19	-35.58	-31.50	-40.21	-30.03	-38.64	-33.22	-36.72	-43.29	-35.37	-35.66	-36.39	-35.31	-34.51	-38.97	-33.51	-40.38	-22.51
-80.00	-2.97	-21.91	-30.02	-32.02	-35.26	-23.57	-27.64	-32.16	-34.82	-38.49	-32.57	-26.51	-30.14	-31.10	-31.09	-42.50	-39.75	-27.86	-16.85
-70.00	1.58	-25.40	-40.50	-32.69	-23.83	-24.26	-30.62	-26.41	-30.82	-28.86	-28.18	-31.64	-27.27	-26.89	-22.99	-32.88	-24.19	-28.34	-12.26
-60.00	3.14	-30.68	-24.34	-26.73	-36.78	-29.71	-28.30	-27.76	-32.89	-28.22	-27.78	-23.09	-36.49	-24.13	-28.68	-29.43	-29.86	-21.53	-12.27
-50.00	6.20	-13.13	-21.99	-21.24	-20.32	-30.27	-23.00	-25.83	-19.89	-26.95	-24.63	-34.59	-24.48	-27.11	-21.03	-26.93	-19.14	-16.59	-3.50
-40.00	8.98	-22.79	-18.55	-19.27	-21.83	-24.66	-24.51	-20.10	-28.67	-19.67	-25.24	-24.11	-36.68	-19.89	-23.17	-20.81	-18.23	-10.86	-9.59
-30.00	-5.29	-13.36	-23.46	-19.31	-19.05	-23.63	-26.36	-24.71	-20.80	-29.47	-25.74	-22.00	-20.02	-20.83	-23.00	-15.64	-23.53	-18.60	-16.86
-20.00	14.94	-4.61	-5.43	-9.17	-14.44	-28.07	-22.42	-24.41	-15.73	-20.81	-15.17	-28.25	-19.55	-15.26	-23.22	-18.09	-4.33	-1.05	-0.98
-10.00	17.62	12.66	-1.93	-1.26	0.05	-9.87	-0.74	-15.17	-4.67	-14.79	-16.12	-15.00	-11.32	-11.91	-1.16	1.06	0.55	-0.32	-0.48
-9.00	21.20	17.24	-5.55	5.88	-5.40	2.06	-8.96	-1.41	-17.68	-11.52	-11.71	-9.94	-2.49	0.90	-2.44	-8.71	-3.74	1.33	2.80
-8.00	22.00	18.88	2.11	7.34	-2.09	1.51	-1.42	-10.03	-11.98	-21.21	-8.41	-0.19	0.38	-0.94	2.73	6.40	7.98	8.50	8.65
-7.00	19.83	17.38	5.96	3.21	3.01	-6.31	-5.00	-7.79	-11.08	-3.76	-2.45	-14.65	-0.55	6.04	7.85	7.76	6.91	5.98	5.54
-6.00	7.98	5.39	-5.15	-2.78	-0.20	-1.03	-5.73	-6.27	-2.88	-11.02	1.54	7.13	8.26	6.40	-0.42	-10.40	-4.14	1.18	2.47
-5.00	18.94	17.96	14.69	6.91	3.35	8.09	7.36	-1.69	0.70	6.92	6.85	0.83	-6.61	5.50	10.14	12.11	13.06	13.51	13.62
-4.00	27.16	26.48	24.23	19.91	11.54	8.37	13.70	14.40	11.85	3.85	-1.64	8.97	11.94	12.79	12.58	11.72	10.57	9.36	9.14
-3.00	31.37	30.99	29.71	27.44	23.89	18.31	9.59	13.09	17.03	18.36	18.20	16.96	14.79	11.44	6.19	-3.05	-3.46	-3.33	-4.30
-2.00	33.83	33.67	33.10	32.12	30.74	28.95	26.63	23.55	19.60	14.26	10.25	12.87	16.08	17.97	19.08	19.75	20.14	20.35	20.41
-1.00	35.17	35.14	34.99	34.74	34.41	34.02	33.56	33.01	32.44	31.82	31.17	30.53	29.95	29.36	28.88	28.43	28.11	27.84	27.83
0.00	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60
1.00	35.17	35.12	34.99	34.77	34.47	34.08	33.60	33.11	32.51	31.90	31.29	30.66	30.01	29.44	28.92	28.50	28.14	27.98	27.82
2.00	33.83	33.64	33.09	32.18	30.85	29.03	26.67	23.68	19.53	14.04	11.41	14.44	17.30	18.95	19.96	20.52	20.85	20.97	21.00
3.00	31.36	30.96	29.70	27.46	23.81	17.51	8.09	14.97	18.65	19.74	19.45	18.13	15.88	12.74	8.28	2.46	-0.12	1.05	1.79
4.00	27.13	26.48	24.20	19.53	8.64	10.93	16.12	16.53	13.83	6.18	-0.54	10.13	13.36	14.39	14.30	13.61	12.75	12.08	11.79
5.00	18.69	17.96	14.50	4.08	6.15	11.44	10.25	1.53	1.80	8.89	9.46	5.68	-0.98	4.66	9.36	11.54	12.56	13.02	13.17
6.00	8.48	4.03	-1.84	-2.64	0.35	0.03	-6.50	-3.53	1.13	-7.30	-0.07	6.56	7.77	5.69	2.59	3.22	5.76	7.40	7.89
7.00	20.19	17.04	7.35	0.65	-6.31	-5.04	-4.76	-18.22	-14.05	-3.94	-1.49	-3.43	4.01	8.46	9.95	9.67	8.52	7.43	6.61
8.00	22.30	18.63	4.50	6.01	-11.11	2.56	-1.84	-8.87	-13.83	-18.36	-6.68	0.50	0.46	-3.57	3.13	7.70	9.58	10.23	10.29
9.00	21.49	17.01	0.15	5.31	-2.46	3.11	-8.25	-3.08	-15.67	-8.60	-19.65	-11.73	0.06	3.79	2.97	-1.44	-1.32	1.13	1.91
10.00	17.93	12.48	0.57	-1.42	1.89	-6.40	-1.39	-12.52	-2.12	-10.83	-18.67	-13.99	-8.50	-5.21	1.30	3.70	4.19	4.27	4.22
20.00	14.94	-3.53	-5.08	-10.41	-10.23	-23.27	-18.61	-19.65	-19.33	-14.86	-18.72	-23.77	-26.35	-12.91	-21.78	-14.30	-4.16	-1.19	-1.03
30.00	-4.57	-20.30	-14.76	-33.92	-15.73	-23.65	-20.28	-24.90	-14.58	-27.58	-17.44	-17.46	-14.67	-24.41	-16.88	-15.90	-16.68	-11.69	-10.45
40.00	9.57	-17.03	-13.43	-17.52	-28.64	-36.64	-20.33	-18.99	-23.55	-22.88	-20.50	-16.67	-26.08	-21.14	-21.98	-24.45	-22.78	-9.87	-8.18
50.00	5.23	-14.48	-18.08	-19.94	-21.14	-24.48	-25.50	-25.85	-29.82	-21.19	-27.18	-26.13	-31.08	-26.44	-26.31	-25.52	-22.69	-13.32	-5.22
60.00	5.00	-26.41	-22.53	-25.28	-23.58	-26.16	-26.24	-25.28	-26.80	-38.88	-28.97	-23.18	-28.63	-25.30	-24.14	-25.84	-22.51	-15.04	-6.86
70.00	2.15	-25.15	-27.27	-34.90	-36.11	-23.70	-30.97	-28.87	-37.60	-32.61	-33.37	-31.59	-23.56	-30.14	-24.96	-28.09	-26.39	-20.81	-8.96
80.00	-1.57	-22.39	-23.65	-34.89	-33.33	-29.60	-36.28	-35.44	-33.49	-37.19	-34.46	-23.00	-44.22	-30.43	-28.95	-28.84	-31.78	-31.38	-13.60
90.00	-4.78	-26.17	-28.91	-33.98	-31.58	-34.68	-37.63	-31.53	-39.27	-38.57	-45.22	-33.96	-38.06	-33.76	-31.61	-34.46	-30.92	-28.30	-17.36

## RHCP, Cross-Pol, Azimuth

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-24.09	-42.85	-37.63	-41.92	-40.84	-39.39	-34.75	-39.82	-36.53	-45.83	-36.47	-37.04	-45.66	-36.95	-43.42	-37.55	-37.93	-31.69	-9.67
-80.00	-32.91	-35.75	-37.13	-38.90	-31.90	-34.52	-30.73	-31.58	-42.21	-41.62	-36.70	-37.15	-47.26	-31.17	-39.41	-38.96	-34.66	-29.95	-8.05
-70.00	-28.54	-30.34	-26.76	-35.66	-26.11	-33.86	-40.41	-32.62	-33.39	-26.54	-32.38	-31.75	-34.17	-28.55	-28.90	-33.39	-32.98	-31.81	-19.09
-60.00	-16.22	-24.65	-29.35	-35.79	-31.25	-34.78	-29.74	-27.17	-32.91	-28.83	-30.81	-29.75	-34.77	-35.06	-33.37	-32.62	-34.74	-36.88	-4.73
-50.00	-24.31	-30.96	-24.51	-23.94	-25.34	-28.47	-25.65	-38.61	-29.04	-29.60	-23.07	-28.64	-26.35	-35.47	-28.99	-27.80	-30.57	-20.11	-2.05
-40.00	-11.82	-16.96	-23.98	-36.30	-22.33	-22.34	-28.68	-25.22	-29.45	-23.75	-31.56	-23.64	-28.52	-31.16	-29.15	-24.40	-26.79	-33.07	-9.62
-30.00	-13.80	-15.71	-25.53	-29.99	-21.82	-24.56	-29.81	-31.16	-27.81	-27.27	-20.73	-24.51	-20.94	-27.63	-25.49	-27.17	-16.87	-18.75	-4.99
-20.00	-13.63	-14.95	-17.34	-26.95	-22.96	-21.09	-22.41	-35.93	-27.58	-24.86	-30.98	-27.93	-23.72	-29.57	-29.05	-18.28	-25.51	-21.84	-23.73
-10.00	-12.53	-13.53	-16.31	-21.21	-24.57	-27.13	-18.45	-20.15	-26.20	-20.89	-22.64	-21.49	-20.51	-16.54	-19.57	-14.15	-21.32	-7.47	-2.04
-9.00	-7.64	-8.06	-7.78	-8.37	-6.37	-8.91	-11.78	-18.72	-23.55	-19.23	-20.63	-20.07	-18.35	-18.67	-14.58	-11.77	-23.94	-9.26	-5.67
-8.00	-3.42	-3.72	-3.81	-4.94	-5.61	-10.33	-13.20	-18.03	-14.08	-19.96	-14.99	-16.40	-15.62	-12.76	-10.88	-10.27	-18.82	-11.91	-15.20
-7.00	-7.37	-8.13	-8.18	-8.56	-9.16	-11.88	-11.01	-14.43	-13.38	-12.62	-13.09	-13.17	-9.48	-9.98	-7.92	-8.73	-13.20	-8.84	-9.02
-6.00	-6.95	-7.31	-8.23	-9.47	-7.82	-10.13	-12.27	-11.41	-9.08	-10.80	-11.78	-11.37	-10.54	-9.13	-8.78	-10.43	-9.19	-2.12	-0.16
-5.00	-6.87	-8.31	-8.95	-10.44	-9.22	-7.85	-7.82	-6.77	-8.78	-9.59	-10.44	-10.14	-11.68	-13.59	-12.17	-2.46	-3.28	-0.16	2.87
-4.00	-2.84	-3.03	-3.90	-5.30	-6.75	-9.16	-9.88	-9.01	-13.93	-11.40	-11.02	-11.34	-11.54	-12.16	-3.58	-4.74	-2.39	0.24	3.24
-3.00	-5.44	-8.33	-8.17	-8.61	-6.73	-5.51	-5.82	-7.21	-7.94	-8.29	-9.28	-11.99	-9.74	-5.65	-5.57	-3.07	-1.54	0.39	2.76
-2.00	-5.90	-7.03	-6.81	-8.29	-9.91	-12.05	-14.42	-15.72	-16.68	-14.99	-10.82	-6.76	-6.39	-3.52	-2.84	-0.78	0.17	1.49	2.89
-1.00	-2.66	-1.05	-0.37	0.32	1.01	0.99	0.98	0.87	0.76	0.38	-0.19	0.00	-0.46	0.99	1.38	2.29	2.65	3.15	3.71
0.00	3.53	3.58	3.65	3.67	3.70	3.72	3.73	3.75	3.73	3.72	3.71	3.71	3.70	3.72	3.72	3.74	3.75	3.77	3.77
1.00	-9.81	-8.31	-4.66	-3.39	-1.40	-0.28	0.79	1.71	1.40	1.64	1.61	1.25	2.01	1.63	2.18	2.53	2.92	3.04	2.57
2.00	-14.36	-11.97	-9.93	-9.74	-9.98	-10.63	-10.86	-11.37	-11.40	-9.66	-6.00	-4.78	-3.36	-3.24	-1.62	-0.09	1.43	1.73	0.77
3.00	-9.90	-9.41	-10.03	-10.93	-7.91	-6.54	-3.76	-4.39	-5.98	-7.39	-9.20	-9.83	-9.83	-8.69	-6.51	-2.73	0.11	1.17	-0.91
4.00	-1.54	-1.79	-1.76	-3.54	-4.67	-7.69	-8.77	-8.04	-8.40	-7.92	-8.18	-9.37	-8.46	-8.28	-7.90	-5.94	-1.01	1.06	-1.45
5.00	1.94	1.52	1.57	0.28	-0.04	-3.23	-5.73	-5.01	-9.47	-14.39	-18.61	-14.03	-11.12	-7.64	-8.40	-9.61	-2.96	0.64	-1.34
6.00	-0.84	-1.69	-1.82	-3.34	-2.76	-2.65	-3.67	-6.94	-12.21	-11.56	-15.49	-24.89	-19.90	-6.48	-9.14	-9.95	-7.98	-4.46	-1.56
7.00	-4.75	-5.20	-4.75	-5.23	-4.85	-6.20	-7.13	-8.77	-11.54	-20.72	-16.80	-16.52	-21.41	-15.49	-13.91	-11.72	-10.82	-8.17	-6.97
8.00	-7.47	-8.08	-8.48	-10.14	-9.47	-10.56	-10.33	-11.18	-10.34	-16.31	-15.55	-11.13	-15.77	-17.17	-18.60	-17.03	-16.86	-19.06	-10.72
9.00	-12.44	-12.50	-12.09	-9.84	-9.04	-11.73	-11.82	-13.16	-15.93	-13.27	-18.47	-10.31	-11.58	-15.68	-13.69	-26.20	-19.39	-16.05	-12.00
10.00	-7.21	-8.08	-8.71	-11.15	-13.62	-14.87	-12.32	-14.45	-19.44	-20.26	-13.10	-16.28	-12.03	-14.98	-16.30	-32.59	-18.69	-10.51	-8.43
20.00	-17.88	-19.66	-23.66	-21.04	-26.02	-27.06	-20.40	-26.01	-26.30	-21.02	-21.22	-25.08	-22.10	-19.75	-20.87	-16.98	-30.00	-22.32	-13.13
30.00	-15.89	-16.82	-20.81	-18.09	-23.85	-35.15	-24.54	-35.50	-22.77	-30.01	-19.63	-24.27	-21.36	-27.60	-35.36	-24.72	-19.21	-22.54	-6.36
40.00	-12.88	-19.03	-27.35	-24.38	-19.97	-25.43	-26.24	-18.82	-22.08	-23.38	-24.04	-26.74	-23.44	-44.75	-35.32	-28.07	-25.26	-24.31	-20.79
50.00	-16.50	-25.95	-24.61	-28.93	-26.49	-28.35	-29.86	-31.53	-24.62	-29.53	-31.86	-29.21	-34.79	-29.18	-30.14	-27.42	-26.76	-19.75	-6.72
60.00	-17.90	-22.43	-22.53	-32.46	-28.89	-32.77	-35.58	-37.54	-29.94	-36.67	-31.96	-34.32	-28.25	-27.54	-27.97	-27.04	-24.72	-26.53	-6.35
70.00	-18.38	-26.47	-28.92	-33.42	-26.08	-32.57	-31.15	-34.27	-36.81	-32.64	-35.22	-32.62	-34.08	-37.04	-37.61	-37.41	-28.87	-32.27	-11.18
80.00	-21.81	-40.06	-33.04	-32.18	-30.98	-32.32	-47.69	-32.81	-36.09	-35.96	-43.70	-40.28	-36.70	-33.85	-38.96	-38.80	-36.31	-32.94	-9.26
90.00	-18.84	-36.32	-35.06	-42.47	-38.51	-41.37	-39.14	-38.37	-40.05	-42.05	-45.28	-34.68	-41.14	-42.62	-38.71	-40.02	-38.66	-33.13	-9.47



## RHCP, Cross-Pol, Elevation

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-9.67	-31.69	-37.93	-37.55	-43.42	-36.95	-45.66	-37.04	-36.47	-45.83	-36.53	-39.82	-34.75	-39.39	-40.84	-41.92	-37.63	-42.85	-24.09
-80.00	-8.05	-29.95	-34.66	-38.96	-39.41	-31.17	-47.26	-37.15	-36.70	-41.62	-42.21	-31.58	-30.73	-34.52	-31.90	-38.90	-37.13	-35.75	-32.91
-70.00	-19.09	-31.81	-32.98	-33.39	-28.90	-28.55	-34.17	-31.75	-32.38	-26.54	-33.39	-32.62	-40.41	-33.86	-26.11	-35.66	-26.76	-30.34	-28.54
-60.00	-4.73	-36.88	-34.74	-32.62	-33.37	-35.06	-34.77	-29.75	-30.81	-28.83	-32.91	-27.17	-29.74	-34.78	-31.25	-35.79	-29.35	-24.65	-16.22
-50.00	-2.05	-20.11	-30.57	-27.80	-28.99	-35.47	-26.35	-28.64	-23.07	-29.60	-29.04	-38.61	-25.65	-28.47	-25.34	-23.94	-24.51	-30.96	-24.31
-40.00	-9.62	-33.07	-26.79	-24.40	-29.15	-31.16	-28.52	-23.64	-31.56	-23.75	-29.45	-25.22	-28.68	-22.34	-22.33	-36.30	-23.98	-16.96	-11.82
-30.00	-4.99	-18.75	-16.87	-27.17	-25.49	-27.63	-20.94	-24.51	-20.73	-27.27	-27.81	-31.16	-29.81	-24.56	-21.82	-29.99	-25.53	-15.71	-13.80
-20.00	-23.73	-21.84	-25.51	-18.28	-29.05	-29.57	-23.72	-27.93	-30.98	-24.86	-27.58	-35.93	-22.41	-21.09	-22.96	-26.95	-17.34	-14.95	-13.63
-10.00	-2.04	-7.47	-21.32	-14.15	-19.57	-16.54	-20.51	-21.49	-22.64	-20.89	-26.20	-20.15	-18.45	-27.13	-24.57	-21.21	-16.31	-13.53	-12.53
-9.00	-5.67	-9.26	-23.94	-11.77	-14.58	-18.67	-18.35	-20.07	-20.63	-19.23	-23.55	-18.72	-11.78	-8.91	-6.37	-8.37	-7.78	-8.06	-7.64
-8.00	-15.20	-11.91	-18.82	-10.27	-10.88	-12.76	-15.62	-16.40	-14.99	-19.96	-14.08	-18.03	-13.20	-10.33	-5.61	-4.94	-3.81	-3.72	-3.42
-7.00	-9.02	-8.84	-13.20	-8.73	-7.92	-9.98	-9.48	-13.17	-13.09	-12.62	-13.38	-14.43	-11.01	-11.88	-9.16	-8.56	-8.18	-8.13	-7.37
-6.00	-0.16	-2.12	-9.19	-10.43	-8.78	-9.13	-10.54	-11.37	-11.78	-10.80	-9.08	-11.41	-12.27	-10.13	-7.82	-9.47	-8.23	-7.31	-6.95
-5.00	2.87	-0.16	-3.28	-2.46	-12.17	-13.59	-11.68	-10.14	-10.44	-9.59	-8.78	-6.77	-7.82	-7.85	-9.22	-10.44	-8.95	-8.31	-6.87
-4.00	3.24	0.24	-2.39	-4.74	-3.58	-12.16	-11.54	-11.34	-11.02	-11.40	-13.93	-9.01	-9.88	-9.16	-6.75	-5.30	-3.90	-3.03	-2.84
-3.00	2.76	0.39	-1.54	-3.07	-5.57	-5.65	-9.74	-11.99	-9.28	-8.29	-7.94	-7.21	-5.82	-5.51	-6.73	-8.61	-8.17	-8.33	-5.44
-2.00	2.89	1.49	0.17	-0.78	-2.84	-3.52	-6.39	-6.76	-10.82	-14.99	-16.68	-15.72	-14.42	-12.05	-9.91	-8.29	-6.81	-7.03	-5.90
-1.00	3.71	3.15	2.65	2.29	1.38	0.99	-0.46	0.00	-0.19	0.38	0.76	0.87	0.98	0.99	1.01	0.32	-0.37	-1.05	-2.66
0.00	3.77	3.77	3.75	3.74	3.72	3.72	3.70	3.71	3.71	3.72	3.73	3.75	3.73	3.72	3.70	3.67	3.65	3.58	3.53
1.00	2.57	3.04	2.92	2.53	2.18	1.63	2.01	1.25	1.61	1.64	1.40	1.71	0.79	-0.28	-1.40	-3.39	-4.66	-8.31	-9.81
2.00	0.77	1.73	1.43	-0.09	-1.62	-3.24	-3.36	-4.78	-6.00	-9.66	-11.40	-11.37	-10.86	-10.63	-9.98	-9.74	-9.93	-11.97	-14.36
3.00	-0.91	1.17	0.11	-2.73	-6.51	-8.69	-9.83	-9.83	-9.20	-7.39	-5.98	-4.39	-3.76	-6.54	-7.91	-10.93	-10.03	-9.41	-9.90
4.00	-1.45	1.06	-1.01	-5.94	-7.90	-8.28	-8.46	-9.37	-8.18	-7.92	-8.40	-8.04	-8.77	-7.69	-4.67	-3.54	-1.76	-1.79	-1.54
5.00	-1.34	0.64	-2.96	-9.61	-8.40	-7.64	-11.12	-14.03	-18.61	-14.39	-9.47	-5.01	-5.73	-3.23	-0.04	0.28	1.57	1.52	1.94
6.00	-1.56	-4.46	-7.98	-9.95	-9.14	-6.48	-19.90	-24.89	-15.49	-11.56	-12.21	-6.94	-3.67	-2.65	-2.76	-3.34	-1.82	-1.69	-0.84
7.00	-6.97	-8.17	-10.82	-11.72	-13.91	-15.49	-21.41	-16.52	-16.80	-20.72	-11.54	-8.77	-7.13	-6.20	-4.85	-5.23	-4.75	-5.20	-4.75
8.00	-10.72	-19.06	-16.86	-17.03	-18.60	-17.17	-15.77	-11.13	-15.55	-16.31	-10.34	-11.18	-10.33	-10.56	-9.47	-10.14	-8.48	-8.08	-7.47
9.00	-12.00	-16.05	-19.39	-26.20	-13.69	-15.68	-11.58	-10.31	-18.47	-13.27	-15.93	-13.16	-11.82	-11.73	-9.04	-9.84	-12.09	-12.50	-12.44
10.00	-8.43	-10.51	-18.69	-32.59	-16.30	-14.98	-12.03	-16.28	-13.10	-20.26	-19.44	-14.45	-12.32	-14.87	-13.62	-11.15	-8.71	-8.08	-7.21
20.00	-13.13	-22.32	-30.00	-16.98	-20.87	-19.75	-22.10	-25.08	-21.22	-21.02	-26.30	-26.01	-20.40	-27.06	-26.02	-21.04	-23.66	-19.66	-17.88
30.00	-6.36	-22.54	-19.21	-24.72	-35.36	-27.60	-21.36	-24.27	-19.63	-30.01	-22.77	-35.50	-24.54	-35.15	-23.85	-18.09	-20.81	-16.82	-15.89
40.00	-20.79	-24.31	-25.26	-28.07	-35.32	-44.75	-23.44	-26.74	-24.04	-23.38	-22.08	-18.82	-26.24	-25.43	-19.97	-24.38	-27.35	-19.03	-12.88
50.00	-6.72	-19.75	-26.76	-27.42	-30.14	-29.18	-34.79	-29.21	-31.86	-29.53	-24.62	-31.53	-29.86	-28.35	-26.49	-28.93	-24.61	-25.95	-16.50
60.00	-6.35	-26.53	-24.72	-27.04	-27.97	-27.54	-28.25	-34.32	-31.96	-36.67	-29.94	-37.54	-35.58	-32.77	-28.89	-32.46	-22.53	-22.43	-17.90
70.00	-11.18	-32.27	-28.87	-37.41	-37.61	-37.04	-34.08	-32.62	-35.22	-32.64	-36.81	-34.27	-31.15	-32.57	-26.08	-33.42	-28.92	-26.47	-18.38
80.00	-9.26	-32.94	-36.31	-38.80	-38.96	-33.85	-36.70	-40.28	-43.70	-35.96	-36.09	-32.81	-47.69	-32.32	-30.98	-32.18	-33.04	-40.06	-21.81
90.00	-9.47	-33.13	-38.66	-40.02	-38.71	-42.62	-41.14	-34.68	-45.28	-42.05	-40.05	-38.37	-39.14	-41.37	-38.51	-42.47	-35.06	-36.32	-18.84

## **28.5 GHz Raw Data**



### LHCP, Co-Pol, Azimuth

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-19.05	-32.50	-26.71	-33.78	-32.62	-30.44	-28.98	-33.95	-37.78	-35.76	-39.88	-36.60	-33.75	-36.50	-36.60	-41.36	-44.73	-32.31	-5.59
-80.00	-20.61	-26.59	-22.68	-30.41	-30.97	-28.22	-30.43	-31.34	-43.33	-30.30	-38.01	-43.64	-35.76	-39.61	-36.75	-32.53	-48.65	-31.27	-6.67
-70.00	-8.92	-17.92	-26.07	-36.40	-28.79	-37.81	-31.11	-29.35	-30.23	-36.35	-31.06	-28.55	-38.97	-23.80	-34.56	-24.72	-24.01	-32.44	5.66
-60.00	-25.27	-17.13	-36.28	-22.78	-33.01	-21.60	-20.68	-23.05	-31.03	-35.11	-20.42	-24.55	-23.31	-23.22	-23.98	-34.26	-25.23	-35.34	6.97
-50.00	-11.90	-21.98	-22.12	-26.41	-21.74	-29.33	-37.31	-20.82	-27.79	-28.72	-28.27	-25.04	-24.04	-34.33	-26.59	-22.39	-24.26	-25.13	-1.44
-40.00	-14.49	-12.23	-24.40	-18.39	-18.58	-31.99	-15.79	-26.25	-24.37	-23.28	-25.54	-20.67	-19.99	-17.51	-18.09	-19.35	-17.23	-15.39	4.72
-30.00	-11.25	-12.00	-20.01	-15.05	-24.34	-23.87	-22.42	-19.82	-19.37	-15.33	-28.97	-17.54	-28.49	-30.12	-24.74	-30.19	-30.10	-17.66	8.25
-20.00	-9.49	-12.08	-15.35	-20.01	-12.42	-28.47	-19.35	-13.04	-22.52	-18.47	-11.83	-21.22	-21.92	-34.80	-23.61	-13.29	-14.27	-11.78	-10.93
-10.00	-6.31	-7.13	-8.66	-16.43	-11.81	-9.76	-5.41	-7.77	-10.87	-14.55	-15.03	-18.66	-23.01	-13.91	-16.43	-7.13	-0.35	11.77	19.80
-9.00	-0.60	-1.16	-2.74	-7.47	-6.72	-11.44	-8.86	-8.03	-11.49	-14.55	-15.40	-16.84	-14.68	-19.23	-52.28	-17.06	-3.50	12.62	18.51
-8.00	-9.41	-8.18	-9.57	-9.55	-3.52	-5.77	-10.91	-8.29	-17.22	-7.80	-8.11	-19.08	-15.14	-11.90	-28.68	-21.71	-40.37	-1.17	-0.98
-7.00	-6.77	-8.50	-9.98	-11.60	-9.10	-8.64	-11.04	-10.81	-5.11	-10.28	-9.97	-14.60	-3.34	-13.41	-10.82	-2.34	-4.21	15.32	18.92
-6.00	0.65	0.57	-0.45	0.16	2.14	-3.67	-3.18	-9.59	-23.48	-8.91	-9.09	-5.03	-5.57	-9.96	-5.00	1.53	11.51	21.79	23.47
-5.00	2.88	1.79	0.87	-2.29	-0.39	-4.59	-8.51	-4.46	0.68	1.43	-0.27	-15.26	-11.79	-13.56	-2.37	-3.65	16.27	21.99	22.99
-4.00	2.01	1.85	3.97	2.42	6.68	8.11	4.00	5.80	1.43	-6.91	-20.90	-10.33	-3.99	1.44	1.50	0.65	5.59	4.00	-7.14
-3.00	-8.64	-11.43	-9.10	-8.20	5.93	1.40	7.84	1.47	-0.31	4.42	8.23	10.18	11.35	1.61	10.04	19.53	24.01	26.53	27.51
-2.00	14.17	14.27	14.29	15.26	15.32	15.95	16.13	15.79	14.08	7.95	-5.70	12.10	19.90	25.25	28.74	31.25	32.94	33.87	34.21
-1.00	25.43	25.32	25.65	26.00	27.05	27.94	29.15	30.14	31.18	32.23	33.20	33.90	34.66	35.45	36.08	36.60	36.99	37.20	37.27
0.00	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20
1.00	25.39	25.17	25.58	25.91	26.93	27.72	29.14	30.06	31.13	32.17	33.17	33.79	34.70	35.48	36.10	36.60	36.92	37.18	37.28
2.00	12.73	12.70	13.42	13.96	14.60	15.09	15.12	14.71	12.92	5.73	-2.89	13.27	19.92	25.27	28.76	31.23	32.85	33.85	34.21
3.00	5.30	5.21	4.42	4.41	6.84	7.18	11.05	9.73	6.14	2.53	6.66	9.10	10.62	-0.12	10.91	19.78	24.28	26.54	27.44
4.00	-5.29	-5.93	-4.62	-2.25	3.12	3.98	4.02	0.96	-0.04	2.07	0.88	-12.16	-4.10	-1.25	-1.88	0.79	1.71	0.03	3.38
5.00	-22.09	-32.99	-15.02	-7.97	1.58	2.79	-4.27	-15.79	-8.12	-9.60	-20.24	-5.03	-8.61	-15.97	-0.14	-3.20	13.58	21.79	23.12
6.00	-7.12	-6.64	-8.34	-9.27	0.60	-1.84	-2.74	-15.31	-18.93	-13.70	-21.15	-9.55	-12.37	-3.10	-5.39	3.68	7.71	21.62	23.36
7.00	-8.50	-8.62	-9.81	-8.36	-7.38	-24.43	-8.75	-12.37	-11.58	-18.00	-5.81	-17.63	-6.68	-14.37	-6.14	-1.33	-9.77	15.20	19.39
8.00	0.23	-0.57	-2.01	-5.44	-7.65	-16.58	-27.60	-12.89	-15.78	-3.90	-8.97	-12.56	-23.14	-13.29	-22.62	-19.48	-25.71	-2.30	-9.23
9.00	-4.15	-4.26	-4.07	-5.93	-7.10	-12.29	-11.03	-9.22	-16.78	-20.40	-8.22	-13.24	-22.51	-13.15	-12.26	-11.39	-2.65	12.41	18.18
10.00	1.78	0.44	0.40	-2.83	-10.05	-8.82	-6.70	-9.04	-8.00	-19.72	-21.81	-19.51	-24.10	-10.62	-7.93	-5.15	-1.73	11.82	19.71
20.00	-11.57	-14.68	-15.34	-14.96	-13.27	-14.67	-31.70	-13.53	-16.44	-29.26	-18.28	-34.53	-14.03	-14.27	-18.92	-17.89	-20.29	-46.71	-9.34
30.00	-10.90	-12.51	-19.44	-18.38	-19.87	-17.63	-25.00	-20.63	-25.62	-16.93	-18.30	-19.14	-20.10	-21.72	-29.01	-30.88	-35.69	-11.74	7.96
40.00	-16.04	-11.10	-24.94	-21.55	-25.50	-19.05	-12.75	-19.11	-22.95	-30.42	-18.58	-19.19	-21.75	-32.22	-18.98	-26.40	-26.59	-17.34	5.86
50.00	-15.41	-19.52	-20.02	-22.77	-27.28	-20.27	-23.98	-26.55	-29.93	-16.19	-21.60	-29.88	-21.18	-21.50	-22.08	-26.98	-22.06	-23.26	-1.23
60.00	-18.80	-29.76	-23.48	-38.71	-17.38	-33.80	-26.46	-28.91	-23.13	-29.07	-17.01	-29.91	-22.28	-32.80	-35.21	-24.13	-32.60	-17.11	6.90
70.00	-13.30	-19.28	-22.64	-28.80	-33.14	-24.89	-25.03	-31.89	-35.74	-25.62	-28.57	-25.19	-38.53	-31.07	-28.41	-30.97	-22.63	-31.47	6.29
80.00	-15.76	-26.64	-34.32	-29.59	-36.15	-39.17	-42.15	-55.76	-34.44	-39.16	-31.38	-35.29	-48.42	-34.76	-30.02	-33.18	-37.92	-27.14	-6.03
90.00	-18.56	-30.37	-35.62	-31.56	-32.37	-38.96	-38.54	-40.55	-35.97	-37.38	-32.52	-35.42	-39.31	-37.31	-34.85	-31.17	-42.13	-28.27	-4.93

## LHCP, Co-Pol, Elevation

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-5.59	-32.31	-44.73	-41.36	-36.60	-36.50	-33.75	-36.60	-39.88	-35.76	-37.78	-33.95	-28.98	-30.44	-32.62	-33.78	-26.71	-32.50	-19.05
-80.00	-6.67	-31.27	-48.65	-32.53	-36.75	-39.61	-35.76	-43.64	-38.01	-30.30	-43.33	-31.34	-30.43	-28.22	-30.97	-30.41	-22.68	-26.59	-20.61
-70.00	5.66	-32.44	-24.01	-24.72	-34.56	-23.80	-38.97	-28.55	-31.06	-36.35	-30.23	-29.35	-31.11	-37.81	-28.79	-36.40	-26.07	-17.92	-8.92
-60.00	6.97	-35.34	-25.23	-34.26	-23.98	-23.22	-23.31	-24.55	-20.42	-35.11	-31.03	-23.05	-20.68	-21.60	-33.01	-22.78	-36.28	-17.13	-25.27
-50.00	-1.44	-25.13	-24.26	-22.39	-26.59	-34.33	-24.04	-25.04	-28.27	-28.72	-27.79	-20.82	-37.31	-29.33	-21.74	-26.41	-22.12	-21.98	-11.90
-40.00	4.72	-15.39	-17.23	-19.35	-18.09	-17.51	-19.99	-20.67	-25.54	-23.28	-24.37	-26.25	-15.79	-31.99	-18.58	-18.39	-24.40	-12.23	-14.49
-30.00	8.25	-17.66	-30.10	-30.19	-24.74	-30.12	-28.49	-17.54	-28.97	-15.33	-19.37	-19.82	-22.42	-23.87	-24.34	-15.05	-20.01	-12.00	-11.25
-20.00	-10.93	-11.78	-14.27	-13.29	-23.61	-34.80	-21.92	-21.22	-11.83	-18.47	-22.52	-13.04	-19.35	-28.47	-12.42	-20.01	-15.35	-12.08	-9.49
-10.00	19.80	11.77	-0.35	-7.13	-16.43	-13.91	-23.01	-18.66	-15.03	-14.55	-10.87	-7.77	-5.41	-9.76	-11.81	-16.43	-8.66	-7.13	-6.31
-9.00	18.51	12.62	-3.50	-17.06	-52.28	-19.23	-14.68	-16.84	-15.40	-14.55	-11.49	-8.03	-8.86	-11.44	-6.72	-7.47	-2.74	-1.16	-0.60
-8.00	-0.98	-1.17	-40.37	-21.71	-28.68	-11.90	-15.14	-19.08	-8.11	-7.80	-17.22	-8.29	-10.91	-5.77	-3.52	-9.55	-9.57	-8.18	-9.41
-7.00	18.92	15.32	-4.21	-2.34	-10.82	-13.41	-3.34	-14.60	-9.97	-10.28	-5.11	-10.81	-11.04	-8.64	-9.10	-11.60	-9.98	-8.50	-6.77
-6.00	23.47	21.79	11.51	1.53	-5.00	-9.96	-5.57	-5.03	-9.09	-8.91	-23.48	-9.59	-3.18	-3.67	2.14	0.16	-0.45	0.57	0.65
-5.00	22.99	21.99	16.27	-3.65	-2.37	-13.56	-11.79	-15.26	-0.27	1.43	0.68	-4.46	-8.51	-4.59	-0.39	-2.29	0.87	1.79	2.88
-4.00	-7.14	4.00	5.59	0.65	1.50	1.44	-3.99	-10.33	-20.90	-6.91	1.43	5.80	4.00	8.11	6.68	2.42	3.97	1.85	2.01
-3.00	27.51	26.53	24.01	19.53	10.04	1.61	11.35	10.18	8.23	4.42	-0.31	1.47	7.84	1.40	5.93	-8.20	-9.10	-11.43	-8.64
-2.00	34.21	33.87	32.94	31.25	28.74	25.25	19.90	12.10	-5.70	7.95	14.08	15.79	16.13	15.95	15.32	15.26	14.29	14.27	14.17
-1.00	37.27	37.20	36.99	36.60	36.08	35.45	34.66	33.90	33.20	32.23	31.18	30.14	29.15	27.94	27.05	26.00	25.65	25.32	25.43
0.00	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20	38.20
1.00	37.28	37.18	36.92	36.60	36.10	35.48	34.70	33.79	33.17	32.17	31.13	30.06	29.14	27.72	26.93	25.91	25.58	25.17	25.39
2.00	34.21	33.85	32.85	31.23	28.76	25.27	19.92	13.27	-2.89	5.73	12.92	14.71	15.12	15.09	14.60	13.96	13.42	12.70	12.73
3.00	27.44	26.54	24.28	19.78	10.91	-0.12	10.62	9.10	6.66	2.53	6.14	9.73	11.05	7.18	6.84	4.41	4.42	5.21	5.30
4.00	3.38	0.03	1.71	0.79	-1.88	-1.25	-4.10	-12.16	0.88	2.07	-0.04	0.96	4.02	3.98	3.12	-2.25	-4.62	-5.93	-5.29
5.00	23.12	21.79	13.58	-3.20	-0.14	-15.97	-8.61	-5.03	-20.24	-9.60	-8.12	-15.79	-4.27	2.79	1.58	-7.97	-15.02	-32.99	-22.09
6.00	23.36	21.62	7.71	3.68	-5.39	-3.10	-12.37	-9.55	-21.15	-13.70	-18.93	-15.31	-2.74	-1.84	0.60	-9.27	-8.34	-6.64	-7.12
7.00	19.39	15.20	-9.77	-1.33	-6.14	-14.37	-6.68	-17.63	-5.81	-18.00	-11.58	-12.37	-8.75	-24.43	-7.38	-8.36	-9.81	-8.62	-8.50
8.00	-9.23	-2.30	-25.71	-19.48	-22.62	-13.29	-23.14	-12.56	-8.97	-3.90	-15.78	-12.89	-27.60	-16.58	-7.65	-5.44	-2.01	-0.57	0.23
9.00	18.18	12.41	-2.65	-11.39	-12.26	-13.15	-22.51	-13.24	-8.22	-20.40	-16.78	-9.22	-11.03	-12.29	-7.10	-5.93	-4.07	-4.26	-4.15
10.00	19.71	11.82	-1.73	-5.15	-7.93	-10.62	-24.10	-19.51	-21.81	-19.72	-8.00	-9.04	-6.70	-8.82	-10.05	-2.83	0.40	0.44	1.78
20.00	-9.34	-46.71	-20.29	-17.89	-18.92	-14.27	-14.03	-34.53	-18.28	-29.26	-16.44	-13.53	-31.70	-14.67	-13.27	-14.96	-15.34	-14.68	-11.57
30.00	7.96	-11.74	-35.69	-30.88	-29.01	-21.72	-20.10	-19.14	-18.30	-16.93	-25.62	-20.63	-25.00	-17.63	-19.87	-18.38	-19.44	-12.51	-10.90
40.00	5.86	-17.34	-26.59	-26.40	-18.98	-32.22	-21.75	-19.19	-18.58	-30.42	-22.95	-19.11	-12.75	-19.05	-25.50	-21.55	-24.94	-11.10	-16.04
50.00	-1.23	-23.26	-22.06	-26.98	-22.08	-21.50	-21.18	-29.88	-21.60	-16.19	-29.93	-26.55	-23.98	-20.27	-27.28	-22.77	-20.02	-19.52	-15.41
60.00	6.90	-17.11	-32.60	-24.13	-35.21	-32.80	-22.28	-29.91	-17.01	-29.07	-23.13	-28.91	-26.46	-33.80	-17.38	-38.71	-23.48	-29.76	-18.80
70.00	6.29	-31.47	-22.63	-30.97	-28.41	-31.07	-38.53	-25.19	-28.57	-25.62	-35.74	-31.89	-25.03	-24.89	-33.14	-28.80	-22.64	-19.28	-13.30
80.00	-6.03	-27.14	-37.92	-33.18	-30.02	-34.76	-48.42	-35.29	-31.38	-39.16	-34.44	-55.76	-42.15	-39.17	-36.15	-29.59	-34.32	-26.64	-15.76
90.00	-4.93	-28.27	-42.13	-31.17	-34.85	-37.31	-39.31	-35.42	-32.52	-37.38	-35.97	-40.55	-38.54	-38.96	-32.37	-31.56	-35.62	-30.37	-18.56

## LHCP, Cross-Pol, Azimuth

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-36.84	-35.45	-34.70	-37.34	-40.87	-39.46	-42.70	-47.12	-46.55	-46.31	-41.12	-42.36	-49.36	-38.26	-37.15	-40.77	-44.10	-42.86	-13.93
-80.00	-32.24	-33.70	-32.16	-37.72	-38.23	-37.83	-43.29	-50.61	-52.28	-40.75	-42.18	-40.86	-49.79	-40.34	-38.35	-45.43	-41.65	-43.41	-12.59
-70.00	-21.15	-31.37	-33.36	-43.91	-33.44	-45.87	-36.01	-44.25	-41.38	-37.36	-35.26	-36.52	-47.34	-38.79	-38.86	-43.56	-32.17	-35.18	-10.52
-60.00	-27.23	-31.98	-32.83	-40.87	-36.61	-31.42	-43.76	-38.78	-32.69	-39.95	-30.53	-31.81	-27.22	-34.86	-26.78	-34.14	-31.28	-31.50	-11.27
-50.00	-30.22	-28.04	-30.75	-30.54	-28.38	-33.50	-32.14	-31.60	-35.09	-33.18	-40.62	-34.34	-35.22	-30.07	-32.14	-41.94	-34.44	-34.34	-4.38
-40.00	-22.99	-32.68	-28.73	-36.92	-38.70	-34.76	-22.55	-35.50	-37.17	-31.09	-30.47	-30.81	-27.71	-29.96	-34.68	-31.26	-26.48	-29.24	-8.84
-30.00	-23.27	-25.97	-27.19	-30.59	-34.19	-23.74	-26.10	-32.49	-28.56	-25.26	-28.49	-22.77	-31.31	-27.69	-27.48	-21.07	-26.47	-23.42	-8.90
-20.00	-19.72	-22.37	-27.32	-23.36	-23.04	-33.21	-30.72	-30.27	-40.90	-26.73	-21.75	-23.83	-25.86	-35.37	-34.86	-25.99	-25.05	-22.98	-6.56
-10.00	-20.61	-18.54	-18.88	-25.26	-30.19	-24.69	-25.97	-21.80	-23.57	-35.40	-31.31	-30.53	-28.73	-31.80	-18.33	-18.72	-20.81	-10.28	-0.72
-9.00	-17.76	-18.96	-19.70	-18.89	-21.79	-27.62	-25.26	-27.70	-30.55	-32.11	-29.73	-27.96	-28.61	-24.34	-16.31	-24.25	-24.06	-10.40	-4.97
-8.00	-22.91	-22.16	-18.59	-18.14	-20.63	-18.60	-26.81	-27.05	-28.16	-20.10	-18.93	-21.19	-23.50	-22.50	-21.24	-21.42	-24.35	-7.05	-4.64
-7.00	-16.61	-15.86	-16.26	-19.16	-22.89	-29.06	-32.43	-24.93	-17.59	-17.58	-19.93	-21.24	-27.28	-22.92	-19.99	-17.76	-15.80	-2.55	1.12
-6.00	-20.24	-19.76	-18.36	-16.73	-16.48	-19.82	-26.68	-21.89	-23.54	-23.10	-23.81	-33.49	-18.17	-13.90	-16.65	-12.89	-8.63	0.27	2.83
-5.00	-9.93	-11.02	-13.35	-15.84	-17.03	-16.71	-18.01	-16.23	-13.42	-15.47	-16.10	-14.84	-13.87	-16.38	-10.26	-11.25	-6.23	-1.07	0.26
-4.00	-10.59	-12.05	-12.86	-12.32	-11.66	-10.87	-8.46	-6.04	-9.19	-13.75	-18.93	-21.80	-19.04	-13.89	-10.45	-9.86	-16.34	-11.99	-6.35
-3.00	-6.83	-6.94	-7.15	-7.42	-8.07	-9.06	-10.92	-14.49	-18.13	-17.55	-14.08	-12.20	-11.01	-7.47	-2.32	-1.90	1.08	3.35	4.71
-2.00	-6.35	-6.55	-6.53	-6.55	-6.13	-5.98	-5.94	-5.76	-5.42	-5.14	-4.70	0.40	0.68	2.85	5.63	7.84	9.38	10.37	10.89
-1.00	3.70	3.65	4.08	4.12	3.55	4.45	4.85	6.05	7.08	8.16	9.17	10.18	11.02	11.84	12.46	12.97	13.33	13.58	13.72
0.00	14.42	14.42	14.42	14.42	14.43	14.43	14.44	14.45	14.46	14.48	14.49	14.50	14.51	14.52	14.53	14.54	14.54	14.55	14.54
1.00	5.13	4.63	4.73	5.04	4.85	5.81	5.60	6.00	6.88	7.97	9.01	10.01	10.97	11.76	12.45	12.99	13.38	13.61	13.62
2.00	-6.77	-6.50	-6.42	-6.06	-5.45	-4.63	-3.90	-3.00	-1.99	-2.65	-4.51	-2.12	-0.11	2.58	5.63	7.96	9.57	10.48	10.60
3.00	-14.71	-14.12	-12.24	-10.41	-9.38	-8.93	-9.46	-10.29	-10.71	-12.30	-13.25	-10.05	-5.90	-7.51	-3.97	-1.33	1.92	3.88	3.94
4.00	-21.36	-21.64	-22.90	-18.84	-17.30	-17.67	-17.49	-17.68	-13.11	-7.80	-5.86	-9.01	-15.23	-17.29	-10.88	-9.99	-8.86	-8.32	-13.35
5.00	-14.44	-15.95	-19.08	-21.68	-20.47	-19.99	-20.86	-25.90	-24.75	-28.21	-21.08	-15.93	-15.78	-17.81	-20.88	-15.77	-6.15	-1.58	0.53
6.00	-9.04	-8.82	-8.57	-8.47	-9.37	-13.26	-20.10	-20.51	-20.54	-18.70	-26.20	-25.09	-20.55	-16.70	-21.27	-16.47	-10.27	-0.66	2.48
7.00	-21.21	-23.37	-27.38	-26.03	-21.21	-17.84	-20.11	-24.13	-25.40	-22.28	-21.88	-24.86	-22.88	-18.12	-19.52	-20.25	-18.61	-3.84	0.45
8.00	-11.50	-11.42	-11.29	-11.67	-14.63	-21.54	-23.29	-24.93	-26.39	-18.73	-23.92	-25.55	-33.77	-22.92	-20.08	-27.61	-29.26	-9.76	-5.18
9.00	-12.14	-12.69	-14.90	-18.97	-24.02	-25.15	-29.14	-24.02	-20.48	-29.59	-20.77	-29.80	-29.21	-28.47	-23.11	-22.29	-24.16	-12.62	-5.43
10.00	-16.50	-16.31	-17.70	-22.19	-26.37	-30.69	-22.68	-24.37	-23.86	-23.05	-27.72	-28.75	-26.21	-30.60	-29.29	-20.29	-20.79	-11.86	-2.01
20.00	-19.66	-23.90	-28.88	-26.15	-29.75	-40.35	-28.47	-24.74	-30.85	-31.14	-24.24	-28.45	-25.40	-31.02	-33.87	-29.37	-27.74	-25.28	-6.09
30.00	-17.32	-29.86	-26.73	-22.54	-28.79	-29.93	-26.68	-24.90	-23.44	-27.91	-27.94	-22.94	-35.26	-31.35	-33.37	-28.99	-29.39	-26.00	-4.70
40.00	-22.14	-24.86	-27.74	-32.98	-24.75	-27.92	-26.82	-28.03	-23.39	-40.64	-29.76	-31.70	-26.39	-25.26	-24.14	-32.56	-30.63	-26.65	-9.95
50.00	-26.26	-27.87	-26.15	-30.16	-36.28	-34.98	-35.85	-33.24	-35.92	-31.61	-37.39	-37.81	-31.27	-32.48	-32.39	-31.19	-30.57	-30.88	-4.24
60.00	-32.88	-24.84	-39.30	-36.71	-34.28	-33.56	-32.21	-42.93	-36.22	-31.62	-30.19	-35.53	-33.94	-34.10	-40.42	-32.05	-34.55	-38.91	-12.35
70.00	-29.20	-28.05	-36.27	-41.22	-38.52	-37.67	-31.02	-33.71	-36.12	-38.07	-34.56	-38.93	-33.25	-31.82	-39.07	-31.82	-40.01	-25.95	-12.87
80.00	-34.47	-32.65	-37.98	-39.54	-43.18	-37.19	-45.22	-45.08	-43.22	-41.87	-43.49	-42.30	-44.02	-37.62	-39.55	-38.87	-47.76	-41.27	-14.25
90.00	-30.92	-36.63	-43.66	-38.07	-43.22	-41.38	-43.95	-44.82	-44.13	-40.94	-42.24	-43.30	-49.21	-39.43	-40.92	-40.01	-44.40	-42.46	-16.09

## LHCP, Cross-Pol, Elevation

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-13.93	-42.86	-44.10	-40.77	-37.15	-38.26	-49.36	-42.36	-41.12	-46.31	-46.55	-47.12	-42.70	-39.46	-40.87	-37.34	-34.70	-35.45	-36.84
-80.00	-12.59	-43.41	-41.65	-45.43	-38.35	-40.34	-49.79	-40.86	-42.18	-40.75	-52.28	-50.61	-43.29	-37.83	-38.23	-37.72	-32.16	-33.70	-32.24
-70.00	-10.52	-35.18	-32.17	-43.56	-38.86	-38.79	-47.34	-36.52	-35.26	-37.36	-41.38	-44.25	-36.01	-45.87	-33.44	-43.91	-33.36	-31.37	-21.15
-60.00	-11.27	-31.50	-31.28	-34.14	-26.78	-34.86	-27.22	-31.81	-30.53	-39.95	-32.69	-38.78	-43.76	-31.42	-36.61	-40.87	-32.83	-31.98	-27.23
-50.00	-4.38	-34.34	-34.44	-41.94	-32.14	-30.07	-35.22	-34.34	-40.62	-33.18	-35.09	-31.60	-32.14	-33.50	-28.38	-30.54	-30.75	-28.04	-30.22
-40.00	-8.84	-29.24	-26.48	-31.26	-34.68	-29.96	-27.71	-30.81	-30.47	-31.09	-37.17	-35.50	-22.55	-34.76	-38.70	-36.92	-28.73	-32.68	-22.99
-30.00	-8.90	-23.42	-26.47	-21.07	-27.48	-27.69	-31.31	-22.77	-28.49	-25.26	-28.56	-32.49	-26.10	-23.74	-34.19	-30.59	-27.19	-25.97	-23.27
-20.00	-6.56	-22.98	-25.05	-25.99	-34.86	-35.37	-25.86	-23.83	-21.75	-26.73	-40.90	-30.27	-30.72	-33.21	-23.04	-23.36	-27.32	-22.37	-19.72
-10.00	-0.72	-10.28	-20.81	-18.72	-18.33	-31.80	-28.73	-30.53	-31.31	-35.40	-23.57	-21.80	-25.97	-24.69	-30.19	-25.26	-18.88	-18.54	-20.61
-9.00	-4.97	-10.40	-24.06	-24.25	-16.31	-24.34	-28.61	-27.96	-29.73	-32.11	-30.55	-27.70	-25.26	-27.62	-21.79	-18.89	-19.70	-18.96	-17.76
-8.00	-4.64	-7.05	-24.35	-21.42	-21.24	-22.50	-23.50	-21.19	-18.93	-20.10	-28.16	-27.05	-26.81	-18.60	-20.63	-18.14	-18.59	-22.16	-22.91
-7.00	1.12	-2.55	-15.80	-17.76	-19.99	-22.92	-27.28	-21.24	-19.93	-17.58	-17.59	-24.93	-32.43	-29.06	-22.89	-19.16	-16.26	-15.86	-16.61
-6.00	2.83	0.27	-8.63	-12.89	-16.65	-13.90	-18.17	-33.49	-23.81	-23.10	-23.54	-21.89	-26.68	-19.82	-16.48	-16.73	-18.36	-19.76	-20.24
-5.00	0.26	-1.07	-6.23	-11.25	-10.26	-16.38	-13.87	-14.84	-16.10	-15.47	-13.42	-16.23	-18.01	-16.71	-17.03	-15.84	-13.35	-11.02	-9.93
-4.00	-6.35	-11.99	-16.34	-9.86	-10.45	-13.89	-19.04	-21.80	-18.93	-13.75	-9.19	-6.04	-8.46	-10.87	-11.66	-12.32	-12.86	-12.05	-10.59
-3.00	4.71	3.35	1.08	-1.90	-2.32	-7.47	-11.01	-12.20	-14.08	-17.55	-18.13	-14.49	-10.92	-9.06	-8.07	-7.42	-7.15	-6.94	-6.83
-2.00	10.89	10.37	9.38	7.84	5.63	2.85	0.68	0.40	-4.70	-5.14	-5.42	-5.76	-5.94	-5.98	-6.13	-6.55	-6.53	-6.55	-6.35
-1.00	13.72	13.58	13.33	12.97	12.46	11.84	11.02	10.18	9.17	8.16	7.08	6.05	4.85	4.45	3.55	4.12	4.08	3.65	3.70
0.00	14.54	14.55	14.54	14.54	14.53	14.52	14.51	14.50	14.49	14.48	14.46	14.45	14.44	14.43	14.43	14.42	14.42	14.42	14.42
1.00	13.62	13.61	13.38	12.99	12.45	11.76	10.97	10.01	9.01	7.97	6.88	6.00	5.60	5.81	4.85	5.04	4.73	4.63	5.13
2.00	10.60	10.48	9.57	7.96	5.63	2.58	-0.11	-2.12	-4.51	-2.65	-1.99	-3.00	-3.90	-4.63	-5.45	-6.06	-6.42	-6.50	-6.77
3.00	3.94	3.88	1.92	-1.33	-3.97	-7.51	-5.90	-10.05	-13.25	-12.30	-10.71	-10.29	-9.46	-8.93	-9.38	-10.41	-12.24	-14.12	-14.71
4.00	-13.35	-8.32	-8.86	-9.99	-10.88	-17.29	-15.23	-9.01	-5.86	-7.80	-13.11	-17.68	-17.49	-17.67	-17.30	-18.84	-22.90	-21.64	-21.36
5.00	0.53	-1.58	-6.15	-15.77	-20.88	-17.81	-15.78	-15.93	-21.08	-28.21	-24.75	-25.90	-20.86	-19.99	-20.47	-21.68	-19.08	-15.95	-14.44
6.00	2.48	-0.66	-10.27	-16.47	-21.27	-16.70	-20.55	-25.09	-26.20	-18.70	-20.54	-20.51	-20.10	-13.26	-9.37	-8.47	-8.57	-8.82	-9.04
7.00	0.45	-3.84	-18.61	-20.25	-19.52	-18.12	-22.88	-24.86	-21.88	-22.28	-25.40	-24.13	-20.11	-17.84	-21.21	-26.03	-27.38	-23.37	-21.21
8.00	-5.18	-9.76	-29.26	-27.61	-20.08	-22.92	-33.77	-25.55	-23.92	-18.73	-26.39	-24.93	-23.29	-21.54	-14.63	-11.67	-11.29	-11.42	-11.50
9.00	-5.43	-12.62	-24.16	-22.29	-23.11	-28.47	-29.21	-29.80	-20.77	-29.59	-20.48	-24.02	-29.14	-25.15	-24.02	-18.97	-14.90	-12.69	-12.14
10.00	-2.01	-11.86	-20.79	-20.29	-29.29	-30.60	-26.21	-28.75	-27.72	-23.05	-23.86	-24.37	-22.68	-30.69	-26.37	-22.19	-17.70	-16.31	-16.50
20.00	-6.09	-25.28	-27.74	-29.37	-33.87	-31.02	-25.40	-28.45	-24.24	-31.14	-30.85	-24.74	-28.47	-40.35	-29.75	-26.15	-28.88	-23.90	-19.66
30.00	-4.70	-26.00	-29.39	-28.99	-33.37	-31.35	-35.26	-22.94	-27.94	-27.91	-23.44	-24.90	-26.68	-29.93	-28.79	-22.54	-26.73	-29.86	-17.32
40.00	-9.95	-26.65	-30.63	-32.56	-24.14	-25.26	-26.39	-31.70	-29.76	-40.64	-23.39	-28.03	-26.82	-27.92	-24.75	-32.98	-27.74	-24.86	-22.14
50.00	-4.24	-30.88	-30.57	-31.19	-32.39	-32.48	-31.27	-37.81	-37.39	-31.61	-35.92	-33.24	-35.85	-34.98	-36.28	-30.16	-26.15	-27.87	-26.26
60.00	-12.35	-38.91	-34.55	-32.05	-40.42	-34.10	-33.94	-35.53	-30.19	-31.62	-36.22	-42.93	-32.21	-33.56	-34.28	-36.71	-39.30	-24.84	-32.88
70.00	-12.87	-25.95	-40.01	-31.82	-39.07	-31.82	-33.25	-38.93	-34.56	-38.07	-36.12	-33.71	-31.02	-37.67	-38.52	-41.22	-36.27	-28.05	-29.20
80.00	-14.25	-41.27	-47.76	-38.87	-39.55	-37.62	-44.02	-42.30	-43.49	-41.87	-43.22	-45.08	-45.22	-37.19	-43.18	-39.54	-37.98	-32.65	-34.47
90.00	-16.09	-42.46	-44.40	-40.01	-40.92	-39.43	-49.21	-43.30	-42.24	-40.94	-44.13	-44.82	-43.95	-41.38	-43.22	-38.07	-43.66	-36.63	-30.92

## RHCP, Co-Pol, Azimuth

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-21.32	-32.99	-25.39	-34.91	-31.97	-29.66	-36.33	-27.37	-29.55	-33.23	-30.31	-24.40	-28.37	-33.01	-34.21	-34.85	-43.94	-31.63	0.14
-80.00	-32.83	-24.47	-24.52	-33.18	-28.05	-33.99	-43.46	-30.80	-31.09	-43.83	-33.71	-21.83	-30.94	-40.28	-33.51	-39.31	-35.84	-26.98	-3.91
-70.00	-9.97	-30.20	-36.33	-31.17	-32.25	-28.14	-30.35	-23.87	-32.41	-28.84	-29.66	-25.36	-26.49	-25.84	-27.73	-25.53	-38.87	-35.47	5.34
-60.00	-14.25	-21.16	-27.05	-27.61	-20.53	-26.96	-30.59	-48.81	-26.65	-22.95	-23.42	-25.85	-27.23	-29.15	-26.59	-28.07	-27.55	-19.17	5.97
-50.00	-20.91	-19.59	-20.68	-32.20	-26.01	-17.02	-31.03	-30.29	-32.87	-22.73	-33.93	-55.23	-34.15	-24.15	-27.32	-27.20	-22.83	-25.39	5.18
-40.00	-10.15	-21.55	-24.83	-20.89	-19.57	-30.58	-28.36	-31.10	-20.08	-24.90	-26.15	-62.42	-20.24	-21.41	-31.37	-16.90	-23.18	-30.16	7.38
-30.00	-10.33	-10.71	-21.19	-14.44	-12.22	-28.51	-19.94	-28.85	-17.98	-40.15	-28.31	-40.00	-15.29	-20.77	-16.20	-16.27	-19.19	-16.38	10.82
-20.00	-10.16	-10.96	-14.66	-20.21	-19.00	-23.84	-20.70	-15.26	-16.23	-30.26	-32.43	-19.37	-22.63	-12.75	-26.73	-17.19	-20.42	-12.55	2.96
-10.00	-1.30	-2.94	-6.00	-13.30	-14.24	-6.45	-5.34	-10.26	-13.42	-14.97	-16.48	-12.99	-20.82	-10.02	-15.53	-9.13	-4.39	9.94	19.09
-9.00	-2.98	-3.74	-6.49	-12.49	-22.34	-14.03	-7.23	-9.27	-10.12	-14.52	-14.69	-14.60	-19.72	-15.88	-23.95	-9.76	-1.88	12.11	19.42
-8.00	-2.39	-3.35	-8.12	-27.61	-12.76	-16.09	-8.50	-7.19	-13.07	-9.31	-7.02	-19.19	-16.77	-11.40	-20.99	-15.84	-7.96	4.96	9.97
-7.00	0.60	-0.43	-3.78	-11.35	-16.20	-9.55	-11.96	-12.18	-5.09	-7.82	-18.19	-19.35	-7.83	-14.11	-11.24	-4.23	-9.91	12.09	16.78
-6.00	-0.38	-0.72	-1.80	-2.63	-3.76	2.23	-8.94	-7.43	-13.98	-9.53	-9.54	-20.00	-22.02	-4.54	-8.74	1.42	6.37	20.52	23.33
-5.00	3.43	1.59	-1.57	-6.60	-10.92	-10.46	-9.30	-3.88	0.72	1.37	0.04	-0.44	-5.07	-14.06	-1.77	-13.98	12.87	21.71	23.59
-4.00	-2.51	-2.22	-2.25	-0.49	2.02	-1.17	4.76	5.76	1.93	-3.84	-11.60	-8.93	-1.67	-2.49	-4.37	-0.33	2.87	8.88	9.74
-3.00	-8.73	-6.49	-7.66	-14.29	-19.07	4.35	1.12	1.51	0.00	4.07	7.60	8.14	11.24	1.26	9.16	18.23	23.09	25.41	26.37
-2.00	11.83	11.93	12.26	13.02	14.19	15.31	16.51	15.72	14.06	8.82	-3.95	13.29	18.71	24.50	28.20	30.68	32.39	33.44	33.81
-1.00	23.90	23.80	24.11	24.65	25.52	26.69	28.72	30.12	31.15	32.17	33.12	33.79	34.41	35.23	35.87	36.38	36.75	37.02	37.10
0.00	38.10	38.10	38.10	38.10	38.10	38.10	38.08	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10
1.00	23.99	23.96	24.14	24.58	25.54	26.77	28.31	29.94	30.92	31.89	32.86	33.70	34.45	35.27	35.93	36.46	36.84	37.03	37.11
2.00	10.45	10.65	11.40	12.35	12.44	13.67	14.36	14.22	12.53	6.12	-4.89	13.43	18.97	24.56	28.20	30.74	32.49	33.45	33.81
3.00	3.76	3.06	2.24	2.49	4.18	4.69	10.10	9.14	6.55	4.20	6.86	8.92	9.79	1.83	8.26	17.97	22.67	25.53	26.28
4.00	-6.64	-8.70	-17.45	-10.49	-3.41	0.30	3.96	1.30	-0.94	1.69	2.28	-16.74	-7.17	-4.45	-1.40	4.43	9.93	9.71	11.17
5.00	2.00	1.68	-0.37	-5.99	-4.19	-0.18	-1.21	-11.16	-8.03	-8.60	-15.40	-5.24	-2.41	-25.18	-2.09	-5.62	16.10	21.87	23.73
6.00	-6.27	-6.29	-7.64	-16.20	-4.03	-5.30	-4.42	-18.32	-13.69	-7.32	-8.64	-6.18	-9.23	-2.85	-11.31	0.52	9.83	20.69	23.42
7.00	-0.90	-2.10	-4.70	-8.88	-11.35	-21.73	-12.65	-23.20	-13.32	-17.68	-3.14	-13.37	-7.82	-9.84	-4.99	-6.33	-10.35	12.66	17.49
8.00	3.19	1.77	-1.11	-7.25	-20.10	-16.00	-13.83	-8.81	-16.05	-4.98	-13.39	-13.78	-19.34	-20.88	-11.17	-20.26	-16.79	2.17	8.28
9.00	-3.67	-2.06	-4.23	-11.40	-13.73	-17.41	-13.74	-11.13	-17.01	-14.94	-9.16	-18.35	-27.74	-11.68	-9.18	-10.17	-4.83	10.63	19.12
10.00	2.36	1.39	-1.70	-6.06	-13.66	-11.98	-10.46	-10.19	-7.70	-20.42	-18.99	-23.74	-19.58	-10.52	-8.17	-5.08	-4.42	7.65	18.87
20.00	-9.81	-6.88	-11.96	-20.39	-16.26	-19.65	-23.34	-10.99	-23.78	-20.94	-16.45	-17.03	-19.78	-27.63	-36.80	-22.36	-19.09	-18.94	4.98
30.00	-14.07	-16.50	-22.82	-25.37	-18.59	-43.83	-19.31	-24.25	-18.58	-25.58	-28.68	-18.95	-22.57	-25.73	-27.19	-19.58	-23.13	-18.01	9.65
40.00	-37.44	-19.86	-23.42	-28.00	-33.22	-22.27	-12.49	-23.32	-23.75	-18.63	-23.72	-21.95	-21.83	-27.57	-35.28	-24.62	-28.76	-16.09	8.72
50.00	-12.45	-19.11	-26.31	-21.64	-35.25	-24.58	-26.18	-26.24	-31.21	-24.69	-24.24	-21.22	-22.33	-20.75	-29.68	-30.25	-16.94	-25.57	5.01
60.00	-20.45	-15.52	-27.20	-21.14	-30.15	-29.94	-22.90	-26.02	-30.06	-25.75	-15.81	-22.31	-19.35	-27.67	-27.48	-25.87	-25.14	-19.70	5.32
70.00	-15.12	-32.34	-26.71	-37.64	-37.07	-30.48	-22.38	-24.12	-27.61	-27.35	-27.45	-23.93	-36.87	-30.73	-29.38	-54.24	-24.03	-21.74	5.37
80.00	-16.62	-32.41	-24.88	-24.81	-33.73	-32.67	-32.63	-49.42	-37.34	-32.94	-33.16	-27.06	-36.50	-34.02	-36.19	-39.86	-33.96	-46.59	-6.55
90.00	-22.71	-27.64	-25.79	-28.31	-36.01	-29.16	-27.87	-34.11	-37.06	-34.12	-33.11	-26.85	-38.36	-29.30	-31.46	-42.50	-28.89	-35.02	-1.24

## RHCP, Co-Pol, Elevation

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	0.14	-31.63	-43.94	-34.85	-34.21	-33.01	-28.37	-24.40	-30.31	-33.23	-29.55	-27.37	-36.33	-29.66	-31.97	-34.91	-25.39	-32.99	-21.32
-80.00	-3.91	-26.98	-35.84	-39.31	-33.51	-40.28	-30.94	-21.83	-33.71	-43.83	-31.09	-30.80	-43.46	-33.99	-28.05	-33.18	-24.52	-24.47	-32.83
-70.00	5.34	-35.47	-38.87	-25.53	-27.73	-25.84	-26.49	-25.36	-29.66	-28.84	-32.41	-23.87	-30.35	-28.14	-32.25	-31.17	-36.33	-30.20	-9.97
-60.00	5.97	-19.17	-27.55	-28.07	-26.59	-29.15	-27.23	-25.85	-23.42	-22.95	-26.65	-48.81	-30.59	-26.96	-20.53	-27.61	-27.05	-21.16	-14.25
-50.00	5.18	-25.39	-22.83	-27.20	-27.32	-24.15	-34.15	-55.23	-33.93	-22.73	-32.87	-30.29	-31.03	-17.02	-26.01	-32.20	-20.68	-19.59	-20.91
-40.00	7.38	-30.16	-23.18	-16.90	-31.37	-21.41	-20.24	-62.42	-26.15	-24.90	-20.08	-31.10	-28.36	-30.58	-19.57	-20.89	-24.83	-21.55	-10.15
-30.00	10.82	-16.38	-19.19	-16.27	-16.20	-20.77	-15.29	-40.00	-28.31	-40.15	-17.98	-28.85	-19.94	-28.51	-12.22	-14.44	-21.19	-10.71	-10.33
-20.00	2.96	-12.55	-20.42	-17.19	-26.73	-12.75	-22.63	-19.37	-32.43	-30.26	-16.23	-15.26	-20.70	-23.84	-19.00	-20.21	-14.66	-10.96	-10.16
-10.00	19.09	9.94	-4.39	-9.13	-15.53	-10.02	-20.82	-12.99	-16.48	-14.97	-13.42	-10.26	-5.34	-6.45	-14.24	-13.30	-6.00	-2.94	-1.30
-9.00	19.42	12.11	-1.88	-9.76	-23.95	-15.88	-19.72	-14.60	-14.69	-14.52	-10.12	-9.27	-7.23	-14.03	-22.34	-12.49	-6.49	-3.74	-2.98
-8.00	9.97	4.96	-7.96	-15.84	-20.99	-11.40	-16.77	-19.19	-7.02	-9.31	-13.07	-7.19	-8.50	-16.09	-12.76	-27.61	-8.12	-3.35	-2.39
-7.00	16.78	12.09	-9.91	-4.23	-11.24	-14.11	-7.83	-19.35	-18.19	-7.82	-5.09	-12.18	-11.96	-9.55	-16.20	-11.35	-3.78	-0.43	0.60
-6.00	23.33	20.52	6.37	1.42	-8.74	-4.54	-22.02	-20.00	-9.54	-9.53	-13.98	-7.43	-8.94	2.23	-3.76	-2.63	-1.80	-0.72	-0.38
-5.00	23.59	21.71	12.87	-13.98	-1.77	-14.06	-5.07	-0.44	0.04	1.37	0.72	-3.88	-9.30	-10.46	-10.92	-6.60	-1.57	1.59	3.43
-4.00	9.74	8.88	2.87	-0.33	-4.37	-2.49	-1.67	-8.93	-11.60	-3.84	1.93	5.76	4.76	-1.17	2.02	-0.49	-2.25	-2.22	-2.51
-3.00	26.37	25.41	23.09	18.23	9.16	1.26	11.24	8.14	7.60	4.07	0.00	1.51	1.12	4.35	-19.07	-14.29	-7.66	-6.49	-8.73
-2.00	33.81	33.44	32.39	30.68	28.20	24.50	18.71	13.29	-3.95	8.82	14.06	15.72	16.51	15.31	14.19	13.02	12.26	11.93	11.83
-1.00	37.10	37.02	36.75	36.38	35.87	35.23	34.41	33.79	33.12	32.17	31.15	30.12	28.72	26.69	25.52	24.65	24.11	23.80	23.90
0.00	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.10	38.08	38.10	38.10	38.10	38.10	38.10	38.10
1.00	37.11	37.03	36.84	36.46	35.93	35.27	34.45	33.70	32.86	31.89	30.92	29.94	28.31	26.77	25.54	24.58	24.14	23.96	23.99
2.00	33.81	33.45	32.49	30.74	28.20	24.56	18.97	13.43	-4.89	6.12	12.53	14.22	14.36	13.67	12.44	12.35	11.40	10.65	10.45
3.00	26.28	25.53	22.67	17.97	8.26	1.83	9.79	8.92	6.86	4.20	6.55	9.14	10.10	4.69	4.18	2.49	2.24	3.06	3.76
4.00	11.17	9.71	9.93	4.43	-1.40	-4.45	-7.17	-16.74	2.28	1.69	-0.94	1.30	3.96	0.30	-3.41	-10.49	-17.45	-8.70	-6.64
5.00	23.73	21.87	16.10	-5.62	-2.09	-25.18	-2.41	-5.24	-15.40	-8.60	-8.03	-11.16	-1.21	-0.18	-4.19	-5.99	-0.37	1.68	2.00
6.00	23.42	20.69	9.83	0.52	-11.31	-2.85	-9.23	-6.18	-8.64	-7.32	-13.69	-18.32	-4.42	-5.30	-4.03	-16.20	-7.64	-6.29	-6.27
7.00	17.49	12.66	-10.35	-6.33	-4.99	-9.84	-7.82	-13.37	-3.14	-17.68	-13.32	-23.20	-12.65	-21.73	-11.35	-8.88	-4.70	-2.10	-0.90
8.00	8.28	2.17	-16.79	-20.26	-11.17	-20.88	-19.34	-13.78	-13.39	-4.98	-16.05	-8.81	-13.83	-16.00	-20.10	-7.25	-1.11	1.77	3.19
9.00	19.12	10.63	-4.83	-10.17	-9.18	-11.68	-27.74	-18.35	-9.16	-14.94	-17.01	-11.13	-13.74	-17.41	-13.73	-11.40	-4.23	-2.06	-3.67
10.00	18.87	7.65	-4.42	-5.08	-8.17	-10.52	-19.58	-23.74	-18.99	-20.42	-7.70	-10.19	-10.46	-11.98	-13.66	-6.06	-1.70	1.39	2.36
20.00	4.98	-18.94	-19.09	-22.36	-36.80	-27.63	-19.78	-17.03	-16.45	-20.94	-23.78	-10.99	-23.34	-19.65	-16.26	-20.39	-11.96	-6.88	-9.81
30.00	9.65	-18.01	-23.13	-19.58	-27.19	-25.73	-22.57	-18.95	-28.68	-25.58	-18.58	-24.25	-19.31	-43.83	-18.59	-25.37	-22.82	-16.50	-14.07
40.00	8.72	-16.09	-28.76	-24.62	-35.28	-27.57	-21.83	-21.95	-23.72	-18.63	-23.75	-23.32	-12.49	-22.27	-33.22	-28.00	-23.42	-19.86	-37.44
50.00	5.01	-25.57	-16.94	-30.25	-29.68	-20.75	-22.33	-21.22	-24.24	-24.69	-31.21	-26.24	-26.18	-24.58	-35.25	-21.64	-26.31	-19.11	-12.45
60.00	5.32	-19.70	-25.14	-25.87	-27.48	-27.67	-19.35	-22.31	-15.81	-25.75	-30.06	-26.02	-22.90	-29.94	-30.15	-21.14	-27.20	-15.52	-20.45
70.00	5.37	-21.74	-24.03	-54.24	-29.38	-30.73	-36.87	-23.93	-27.45	-27.35	-27.61	-24.12	-22.38	-30.48	-37.07	-37.64	-26.71	-32.34	-15.12
80.00	-6.55	-46.59	-33.96	-39.86	-36.19	-34.02	-36.50	-27.06	-33.16	-32.94	-37.34	-49.42	-32.63	-32.67	-33.73	-24.81	-24.88	-32.41	-16.62
90.00	-1.24	-35.02	-28.89	-42.50	-31.46	-29.30	-38.36	-26.85	-33.11	-34.12	-37.06	-34.11	-27.87	-29.16	-36.01	-28.31	-25.79	-27.64	-22.71



## RHCP, Cross-Pol, Azimuth

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-29.54	-32.92	-34.31	-40.24	-39.58	-37.17	-36.47	-38.17	-39.38	-41.67	-39.90	-36.95	-36.93	-38.25	-44.18	-40.30	-42.37	-41.95	-9.11
-80.00	-35.93	-34.11	-31.20	-45.06	-36.79	-37.15	-40.28	-41.91	-41.19	-49.96	-44.30	-37.26	-37.30	-40.84	-46.44	-44.19	-45.77	-38.23	-11.89
-70.00	-27.94	-27.36	-37.85	-36.92	-41.03	-36.53	-34.29	-33.04	-40.71	-38.70	-34.89	-33.67	-34.72	-32.54	-38.02	-39.89	-39.44	-37.96	-5.14
-60.00	-20.56	-32.82	-30.55	-35.69	-29.10	-35.17	-37.71	-37.91	-41.80	-31.11	-34.38	-31.99	-34.74	-37.99	-34.48	-34.26	-38.11	-36.75	-4.63
-50.00	-24.82	-32.97	-35.38	-34.00	-37.08	-29.08	-34.23	-35.83	-32.83	-33.38	-35.89	-29.03	-28.74	-26.23	-35.51	-33.49	-32.69	-35.16	-5.15
-40.00	-24.24	-27.04	-31.66	-28.28	-31.64	-30.36	-36.84	-38.63	-30.60	-32.00	-30.21	-33.13	-29.04	-28.68	-32.38	-32.41	-37.00	-41.20	-9.20
-30.00	-22.25	-24.59	-33.85	-26.65	-29.45	-28.56	-34.44	-26.23	-28.50	-31.19	-25.51	-32.11	-23.84	-24.81	-34.56	-26.57	-28.01	-27.55	-7.44
-20.00	-16.35	-19.58	-29.00	-30.67	-27.94	-31.43	-30.46	-27.31	-26.04	-33.00	-25.11	-19.73	-36.74	-23.28	-32.99	-25.96	-28.29	-21.54	-2.73
-10.00	-13.95	-14.43	-16.25	-22.65	-22.50	-20.98	-20.09	-18.29	-20.36	-29.13	-26.61	-20.21	-23.59	-19.05	-28.77	-26.36	-20.35	-8.61	0.73
-9.00	-17.57	-15.74	-15.42	-15.90	-19.15	-19.42	-19.78	-20.99	-26.01	-25.01	-21.93	-23.92	-29.20	-23.87	-22.94	-22.43	-15.60	-8.60	-1.19
-8.00	-13.80	-15.31	-17.63	-16.28	-14.76	-16.42	-20.60	-22.69	-19.54	-17.12	-19.72	-22.52	-20.34	-27.22	-29.69	-29.91	-20.26	-5.10	-3.39
-7.00	-8.70	-8.62	-9.67	-12.56	-14.84	-18.26	-22.80	-21.17	-15.29	-17.64	-18.71	-14.54	-22.73	-27.06	-27.11	-22.23	-19.56	-4.09	0.81
-6.00	-16.23	-16.64	-17.58	-17.40	-19.14	-22.62	-22.19	-20.55	-24.22	-18.36	-16.06	-20.59	-18.16	-21.17	-20.15	-14.36	-12.39	1.40	4.73
-5.00	-11.98	-13.01	-12.58	-12.04	-13.40	-14.23	-15.16	-14.91	-14.15	-12.50	-13.76	-13.09	-16.62	-20.89	-9.65	-14.82	-4.13	3.67	4.69
-4.00	-7.32	-7.48	-7.56	-6.55	-6.38	-7.18	-8.67	-6.08	-7.71	-11.48	-16.22	-22.56	-23.61	-18.85	-12.72	-8.27	-1.14	1.65	0.76
-3.00	-9.41	-10.54	-11.66	-10.39	-9.46	-8.42	-9.56	-13.22	-17.03	-17.44	-14.72	-12.98	-10.33	-6.38	-1.76	1.05	3.08	4.72	6.09
-2.00	-5.10	-4.34	-3.72	-3.25	-2.95	-2.82	-3.15	-3.39	-3.20	-2.92	-3.37	0.00	1.32	3.63	6.34	8.96	10.83	12.08	12.82
-1.00	4.63	4.87	5.78	6.31	7.12	7.52	7.98	8.16	9.01	9.88	10.87	11.82	12.78	13.61	14.24	15.05	15.54	15.84	16.04
0.00	16.81	16.81	16.82	16.83	16.84	16.86	16.86	16.87	16.88	16.89	16.90	16.91	16.92	16.93	16.93	16.95	16.95	16.96	16.96
1.00	5.55	6.19	6.47	6.90	7.19	7.40	7.88	8.32	9.11	10.03	10.90	11.82	12.71	13.62	14.49	15.00	15.51	15.85	15.93
2.00	-5.49	-4.60	-4.06	-3.44	-2.95	-2.62	-2.65	-2.58	-1.48	-0.93	-1.93	-0.33	1.84	3.46	6.23	8.69	10.77	12.09	12.49
3.00	-5.78	-5.80	-6.00	-5.82	-5.25	-5.41	-6.72	-8.60	-10.07	-10.35	-10.45	-9.30	-5.71	-6.61	-3.63	-0.56	2.79	4.86	5.24
4.00	-10.57	-10.91	-12.49	-12.05	-11.65	-12.23	-13.33	-14.01	-11.19	-7.75	-5.87	-7.68	-12.10	-13.19	-12.39	-9.78	-2.45	1.04	1.06
5.00	-9.36	-10.49	-12.58	-16.78	-17.05	-16.19	-20.35	-23.37	-19.64	-26.20	-22.84	-15.80	-13.46	-13.99	-14.24	-13.11	-6.29	2.79	5.05
6.00	-11.43	-12.94	-14.23	-11.26	-10.12	-13.59	-16.86	-18.06	-20.29	-17.11	-25.64	-21.84	-18.75	-17.50	-16.75	-13.62	-12.59	0.71	4.82
7.00	-11.54	-11.46	-13.61	-16.54	-16.55	-18.61	-21.17	-27.16	-31.55	-23.45	-21.26	-22.42	-22.41	-18.30	-23.51	-17.11	-23.68	-4.23	1.17
8.00	-12.77	-13.90	-14.65	-14.53	-17.05	-25.52	-23.18	-21.84	-29.31	-19.39	-24.24	-25.52	-27.39	-27.48	-28.61	-25.31	-19.02	-8.20	-1.84
9.00	-12.38	-14.06	-16.20	-16.53	-18.53	-26.97	-24.35	-21.52	-18.35	-24.33	-20.55	-28.56	-28.18	-24.15	-21.95	-21.00	-16.85	-10.68	-0.81
10.00	-16.94	-16.74	-17.77	-19.85	-22.57	-23.31	-23.05	-23.23	-20.84	-28.67	-25.27	-24.05	-22.97	-25.82	-22.39	-19.63	-20.43	-11.69	-0.02
20.00	-19.86	-20.06	-23.81	-27.99	-33.40	-33.36	-30.05	-24.70	-27.79	-33.79	-29.54	-26.95	-25.56	-30.88	-35.38	-29.09	-32.15	-24.88	-1.16
30.00	-27.50	-27.28	-35.57	-35.78	-25.16	-25.81	-27.78	-24.68	-25.60	-27.67	-32.44	-26.38	-27.93	-34.32	-32.72	-24.10	-30.07	-23.26	-6.94
40.00	-16.34	-23.32	-33.72	-26.88	-26.41	-28.37	-23.37	-26.33	-32.25	-23.55	-28.84	-24.74	-28.62	-24.29	-27.25	-30.24	-27.61	-26.49	-6.56
50.00	-26.02	-27.48	-31.52	-30.69	-31.38	-35.28	-31.23	-34.24	-38.80	-37.81	-33.58	-37.78	-33.41	-33.50	-41.39	-44.77	-33.62	-35.51	-3.90
60.00	-33.82	-22.87	-30.08	-34.77	-30.62	-32.84	-33.02	-40.11	-34.69	-32.47	-27.99	-36.30	-30.41	-33.44	-37.23	-33.09	-30.87	-32.45	-3.46
70.00	-23.17	-24.88	-33.31	-47.33	-34.29	-36.08	-36.44	-33.35	-39.24	-35.90	-31.96	-49.84	-40.61	-36.29	-38.81	-47.64	-43.21	-32.50	-3.31
80.00	-26.76	-36.35	-35.03	-35.75	-41.31	-40.53	-47.91	-45.07	-44.09	-42.10	-41.85	-37.21	-46.42	-45.29	-38.90	-47.30	-38.55	-47.48	-10.93
90.00	-27.06	-33.78	-34.77	-37.14	-39.03	-41.75	-41.39	-41.29	-43.44	-38.49	-38.52	-39.34	-42.46	-42.46	-39.61	-44.76	-41.42	-39.81	-7.73

## RHCP, Cross-Pol, Elevation

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-9.11	-41.95	-42.37	-40.30	-44.18	-38.25	-36.93	-36.95	-39.90	-41.67	-39.38	-38.17	-36.47	-37.17	-39.58	-40.24	-34.31	-32.92	-29.54
-80.00	-11.89	-38.23	-45.77	-44.19	-46.44	-40.84	-37.30	-37.26	-44.30	-49.96	-41.19	-41.91	-40.28	-37.15	-36.79	-45.06	-31.20	-34.11	-35.93
-70.00	-5.14	-37.96	-39.44	-39.89	-38.02	-32.54	-34.72	-33.67	-34.89	-38.70	-40.71	-33.04	-34.29	-36.53	-41.03	-36.92	-37.85	-27.36	-27.94
-60.00	-4.63	-36.75	-38.11	-34.26	-34.48	-37.99	-34.74	-31.99	-34.38	-31.11	-41.80	-37.91	-37.71	-35.17	-29.10	-35.69	-30.55	-32.82	-20.56
-50.00	-5.15	-35.16	-32.69	-33.49	-35.51	-26.23	-28.74	-29.03	-35.89	-33.38	-32.83	-35.83	-34.23	-29.08	-37.08	-34.00	-35.38	-32.97	-24.82
-40.00	-9.20	-41.20	-37.00	-32.41	-32.38	-28.68	-29.04	-33.13	-30.21	-32.00	-30.60	-38.63	-36.84	-30.36	-31.64	-28.28	-31.66	-27.04	-24.24
-30.00	-7.44	-27.55	-28.01	-26.57	-34.56	-24.81	-23.84	-32.11	-25.51	-31.19	-28.50	-26.23	-34.44	-28.56	-29.45	-26.65	-33.85	-24.59	-22.25
-20.00	-2.73	-21.54	-28.29	-25.96	-32.99	-23.28	-36.74	-19.73	-25.11	-33.00	-26.04	-27.31	-30.46	-31.43	-27.94	-30.67	-29.00	-19.58	-16.35
-10.00	0.73	-8.61	-20.35	-26.36	-28.77	-19.05	-23.59	-20.21	-26.61	-29.13	-20.36	-18.29	-20.09	-20.98	-22.50	-22.65	-16.25	-14.43	-13.95
-9.00	-1.19	-8.60	-15.60	-22.43	-22.94	-23.87	-29.20	-23.92	-21.93	-25.01	-26.01	-20.99	-19.78	-19.42	-19.15	-15.90	-15.42	-15.74	-17.57
-8.00	-3.39	-5.10	-20.26	-29.91	-29.69	-27.22	-20.34	-22.52	-19.72	-17.12	-19.54	-22.69	-20.60	-16.42	-14.76	-16.28	-17.63	-15.31	-13.80
-7.00	0.81	-4.09	-19.56	-22.23	-27.11	-27.06	-22.73	-14.54	-18.71	-17.64	-15.29	-21.17	-22.80	-18.26	-14.84	-12.56	-9.67	-8.62	-8.70
-6.00	4.73	1.40	-12.39	-14.36	-20.15	-21.17	-18.16	-20.59	-16.06	-18.36	-24.22	-20.55	-22.19	-22.62	-19.14	-17.40	-17.58	-16.64	-16.23
-5.00	4.69	3.67	-4.13	-14.82	-9.65	-20.89	-16.62	-13.09	-13.76	-12.50	-14.15	-14.91	-15.16	-14.23	-13.40	-12.04	-12.58	-13.01	-11.98
-4.00	0.76	1.65	-1.14	-8.27	-12.72	-18.85	-23.61	-22.56	-16.22	-11.48	-7.71	-6.08	-8.67	-7.18	-6.38	-6.55	-7.56	-7.48	-7.32
-3.00	6.09	4.72	3.08	1.05	-1.76	-6.38	-10.33	-12.98	-14.72	-17.44	-17.03	-13.22	-9.56	-8.42	-9.46	-10.39	-11.66	-10.54	-9.41
-2.00	12.82	12.08	10.83	8.96	6.34	3.63	1.32	0.00	-3.37	-2.92	-3.20	-3.39	-3.15	-2.82	-2.95	-3.25	-3.72	-4.34	-5.10
-1.00	16.04	15.84	15.54	15.05	14.24	13.61	12.78	11.82	10.87	9.88	9.01	8.16	7.98	7.52	7.12	6.31	5.78	4.87	4.63
0.00	16.96	16.96	16.95	16.95	16.93	16.93	16.92	16.91	16.90	16.89	16.88	16.87	16.86	16.86	16.84	16.83	16.82	16.81	16.81
1.00	15.93	15.85	15.51	15.00	14.49	13.62	12.71	11.82	10.90	10.03	9.11	8.32	7.88	7.40	7.19	6.90	6.47	6.19	5.55
2.00	12.49	12.09	10.77	8.69	6.23	3.46	1.84	-0.33	-1.93	-0.93	-1.48	-2.58	-2.65	-2.62	-2.95	-3.44	-4.06	-4.60	-5.49
3.00	5.24	4.86	2.79	-0.56	-3.63	-6.61	-5.71	-9.30	-10.45	-10.35	-10.07	-8.60	-6.72	-5.41	-5.25	-5.82	-6.00	-5.80	-5.78
4.00	1.06	1.04	-2.45	-9.78	-12.39	-13.19	-12.10	-7.68	-5.87	-7.75	-11.19	-14.01	-13.33	-12.23	-11.65	-12.05	-12.49	-10.91	-10.57
5.00	5.05	2.79	-6.29	-13.11	-14.24	-13.99	-13.46	-15.80	-22.84	-26.20	-19.64	-23.37	-20.35	-16.19	-17.05	-16.78	-12.58	-10.49	-9.36
6.00	4.82	0.71	-12.59	-13.62	-16.75	-17.50	-18.75	-21.84	-25.64	-17.11	-20.29	-18.06	-16.86	-13.59	-10.12	-11.26	-14.23	-12.94	-11.43
7.00	1.17	-4.23	-23.68	-17.11	-23.51	-18.30	-22.41	-22.42	-21.26	-23.45	-31.55	-27.16	-21.17	-18.61	-16.55	-16.54	-13.61	-11.46	-11.54
8.00	-1.84	-8.20	-19.02	-25.31	-28.61	-27.48	-27.39	-25.52	-24.24	-19.39	-29.31	-21.84	-23.18	-25.52	-17.05	-14.53	-14.65	-13.90	-12.77
9.00	-0.81	-10.68	-16.85	-21.00	-21.95	-24.15	-28.18	-28.56	-20.55	-24.33	-18.35	-21.52	-24.35	-26.97	-18.53	-16.53	-16.20	-14.06	-12.38
10.00	-0.02	-11.69	-20.43	-19.63	-22.39	-25.82	-22.97	-24.05	-25.27	-28.67	-20.84	-23.23	-23.05	-23.31	-22.57	-19.85	-17.77	-16.74	-16.94
20.00	-1.16	-24.88	-32.15	-29.09	-35.38	-30.88	-25.56	-26.95	-29.54	-33.79	-27.79	-24.70	-30.05	-33.36	-33.40	-27.99	-23.81	-20.06	-19.86
30.00	-6.94	-23.26	-30.07	-24.10	-32.72	-34.32	-27.93	-26.38	-32.44	-27.67	-25.60	-24.68	-27.78	-25.81	-25.16	-35.78	-35.57	-27.28	-27.50
40.00	-6.56	-26.49	-27.61	-30.24	-27.25	-24.29	-28.62	-24.74	-28.84	-23.55	-32.25	-26.33	-23.37	-28.37	-26.41	-26.88	-33.72	-23.32	-16.34
50.00	-3.90	-35.51	-33.62	-44.77	-41.39	-33.50	-33.41	-37.78	-33.58	-37.81	-38.80	-34.24	-31.23	-35.28	-31.38	-30.69	-31.52	-27.48	-26.02
60.00	-3.46	-32.45	-30.87	-33.09	-37.23	-33.44	-30.41	-36.30	-27.99	-32.47	-34.69	-40.11	-33.02	-32.84	-30.62	-34.77	-30.08	-22.87	-33.82
70.00	-3.31	-32.50	-43.21	-47.64	-38.81	-36.29	-40.61	-49.84	-31.96	-35.90	-39.24	-33.35	-36.44	-36.08	-34.29	-47.33	-33.31	-24.88	-23.17
80.00	-10.93	-47.48	-38.55	-47.30	-38.90	-45.29	-46.42	-37.21	-41.85	-42.10	-44.09	-45.07	-47.91	-40.53	-41.31	-35.75	-35.03	-36.35	-26.76
90.00	-7.73	-39.81	-41.42	-44.76	-39.61	-42.46	-42.46	-39.34	-38.52	-38.49	-43.44	-41.29	-41.39	-41.75	-39.03	-37.14	-34.77	-33.78	-27.06



## **29.5 GHz Raw Data**

### LHCP, Co-Pol, Azimuth

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-12.35	-32.50	-33.37	-30.92	-23.41	-34.21	-41.83	-32.02	-39.18	-37.88	-35.68	-39.52	-38.30	-33.73	-34.89	-32.83	-40.27	-24.43	4.80
-80.00	-11.04	-33.88	-29.73	-28.68	-22.50	-38.64	-43.25	-31.23	-46.00	-37.91	-39.55	-32.38	-43.85	-32.99	-30.06	-29.41	-47.10	-22.06	6.28
-70.00	-19.72	-27.79	-18.27	-23.66	-32.45	-25.91	-28.93	-27.93	-34.08	-32.23	-31.03	-32.47	-29.74	-35.00	-40.39	-28.77	-36.04	-24.17	6.48
-60.00	-20.39	-25.96	-30.13	-26.39	-27.33	-25.34	-32.24	-26.38	-30.30	-24.99	-24.25	-42.02	-28.82	-30.52	-32.11	-42.79	-26.84	-25.45	4.01
-50.00	-11.42	-25.04	-46.40	-33.97	-25.90	-24.10	-17.68	-43.55	-31.54	-29.59	-36.17	-36.50	-29.60	-37.26	-40.11	-43.54	-19.81	-21.89	6.56
-40.00	-6.23	-16.40	-27.15	-24.24	-31.26	-24.83	-17.35	-23.97	-44.17	-26.56	-30.26	-25.93	-34.02	-21.38	-32.66	-17.78	-26.10	-21.30	3.87
-30.00	-11.14	-16.87	-19.46	-19.09	-27.44	-33.86	-16.51	-21.40	-25.13	-29.97	-32.65	-24.68	-34.35	-26.94	-23.77	-20.45	-19.35	-16.53	9.36
-20.00	-7.51	-7.73	-12.07	-21.09	-29.36	-33.34	-21.10	-18.56	-22.73	-26.72	-27.99	-31.71	-24.04	-33.70	-16.35	-15.27	-23.18	-10.55	9.42
-10.00	-1.35	-3.00	-6.80	-15.13	-20.62	-18.18	-10.77	-19.45	-21.11	-17.11	-22.47	-22.01	-6.98	-15.04	-6.76	-8.05	-3.32	10.43	18.65
-9.00	2.35	1.55	-1.03	-6.00	-18.08	-17.62	-16.91	-9.39	-6.04	-16.48	-13.52	-15.09	-23.60	-13.11	-11.64	-8.93	-1.63	13.54	20.51
-8.00	-0.98	-1.08	-2.58	-6.19	-9.46	-10.58	-8.21	-8.40	-9.18	-8.12	-4.08	-15.90	-14.97	-17.93	-18.60	-18.90	-12.77	8.48	14.66
-7.00	4.34	3.03	0.15	-5.12	-19.78	-8.50	-9.61	-12.09	-5.51	-2.37	-13.14	-9.86	-8.99	-19.64	-6.30	-7.30	-13.18	11.57	14.25
-6.00	1.71	1.91	0.77	-1.08	-3.46	-3.87	-6.86	-15.54	-11.83	-12.80	-12.74	-7.63	-23.73	-1.81	-9.09	1.66	7.62	21.24	23.67
-5.00	10.33	9.51	7.84	4.74	-1.21	-8.60	-5.38	-5.88	-15.76	-23.50	-24.23	-23.10	-3.68	-5.32	-1.82	-4.15	14.50	22.95	24.52
-4.00	1.45	1.94	1.65	0.52	-0.54	-0.29	1.88	2.48	0.29	-2.96	-1.97	-2.50	-0.65	1.86	-0.84	-3.62	5.39	13.15	12.75
-3.00	1.72	2.75	3.61	4.15	4.97	6.04	7.45	7.95	7.09	4.87	5.01	7.50	11.81	3.82	10.21	19.67	23.48	25.55	26.41
-2.00	9.91	10.37	10.90	11.89	13.08	14.14	15.04	15.43	15.01	12.47	-2.48	11.96	19.46	25.10	28.82	31.45	33.00	34.00	34.32
-1.00	23.28	23.67	24.01	24.78	25.87	26.94	28.10	29.28	30.59	31.79	32.92	34.10	34.96	35.84	36.54	37.16	37.51	37.77	37.83
0.00	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90
1.00	23.35	23.57	23.92	24.87	25.94	26.85	28.04	29.28	30.64	31.85	32.97	34.08	35.06	35.94	36.63	37.16	37.55	37.75	37.84
2.00	-4.60	-2.83	-0.12	6.09	9.79	11.93	13.66	14.27	14.31	12.04	1.80	10.85	19.08	25.03	28.84	31.44	33.05	33.99	34.33
3.00	4.65	4.30	4.32	5.29	7.65	8.82	9.70	9.76	8.10	3.10	1.14	5.37	12.59	8.68	9.23	19.36	23.34	25.53	26.32
4.00	-4.62	-3.47	-3.88	-7.36	-6.72	-2.38	0.60	-0.07	-4.17	-6.33	-1.71	1.11	-7.04	1.01	2.28	-0.94	8.14	12.55	14.04
5.00	3.60	2.60	0.55	-3.61	-15.88	-9.18	-5.43	-8.97	-28.63	-14.08	-18.65	-2.12	-3.39	-10.73	-0.47	-11.85	15.64	22.81	24.76
6.00	3.17	2.87	1.27	-2.51	-9.49	-12.92	-9.32	-13.44	-17.05	-9.33	-11.23	-17.59	-6.74	2.71	-21.22	3.27	8.91	21.20	24.01
7.00	1.55	1.43	-0.49	-3.77	-11.10	-12.66	-19.10	-14.70	-26.01	-16.56	-11.21	-6.63	-9.16	-6.21	-1.54	-2.98	-15.10	12.18	15.75
8.00	-4.54	-4.55	-6.53	-8.54	-7.23	-8.46	-19.67	-13.74	-11.01	-14.56	-14.40	-12.21	-13.26	-18.76	-13.89	-15.90	-13.48	5.53	13.24
9.00	4.42	3.09	0.72	-3.62	-11.82	-17.15	-11.24	-21.29	-7.84	-23.27	-22.91	-21.72	-14.55	-15.62	-30.06	-6.82	-1.00	11.41	20.12
10.00	2.45	1.06	-2.07	-7.31	-11.08	-25.59	-14.60	-17.34	-23.69	-13.82	-24.27	-23.58	-18.39	-13.64	-12.60	-6.05	-1.15	7.28	18.40
20.00	-11.75	-13.48	-18.37	-32.41	-16.72	-27.05	-30.93	-28.24	-25.11	-20.10	-23.01	-26.63	-19.73	-22.90	-40.31	-25.76	-28.52	-15.92	9.48
30.00	-10.93	-22.05	-18.53	-19.63	-16.43	-26.23	-21.93	-34.41	-32.13	-20.06	-23.11	-21.24	-24.95	-20.37	-19.57	-23.11	-19.69	-15.02	7.55
40.00	-10.37	-15.94	-26.06	-25.91	-30.32	-24.85	-35.62	-19.19	-25.16	-20.56	-25.52	-18.36	-19.20	-24.68	-21.87	-26.60	-28.23	-17.65	4.79
50.00	-21.51	-30.50	-25.16	-34.84	-27.82	-25.89	-25.10	-30.23	-34.70	-27.27	-30.86	-22.38	-20.39	-42.46	-22.11	-34.51	-21.74	-41.52	6.32
60.00	-14.32	-29.10	-35.62	-26.69	-26.41	-23.51	-23.66	-31.09	-30.01	-24.68	-36.62	-31.10	-35.07	-29.98	-26.10	-42.91	-25.89	-23.83	3.07
70.00	-22.95	-28.24	-25.10	-21.88	-30.68	-27.55	-32.62	-27.38	-33.57	-38.79	-29.79	-35.78	-38.24	-25.80	-27.32	-24.19	-29.31	-22.23	3.45
80.00	-16.10	-21.31	-30.55	-30.84	-23.17	-32.59	-40.91	-37.19	-32.24	-33.85	-31.91	-36.55	-37.21	-35.73	-28.72	-25.78	-29.56	-28.15	4.59
90.00	-11.19	-26.02	-28.15	-31.28	-23.27	-38.63	-39.01	-36.87	-39.61	-32.59	-35.67	-33.57	-46.94	-35.50	-30.09	-27.50	-29.50	-32.07	3.08

## LHCP, Co-Pol, Elevation

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	4.80	-24.43	-40.27	-32.83	-34.89	-33.73	-38.30	-39.52	-35.68	-37.88	-39.18	-32.02	-41.83	-34.21	-23.41	-30.92	-33.37	-32.50	-12.35
-80.00	6.28	-22.06	-47.10	-29.41	-30.06	-32.99	-43.85	-32.38	-39.55	-37.91	-46.00	-31.23	-43.25	-38.64	-22.50	-28.68	-29.73	-33.88	-11.04
-70.00	6.48	-24.17	-36.04	-28.77	-40.39	-35.00	-29.74	-32.47	-31.03	-32.23	-34.08	-27.93	-28.93	-25.91	-32.45	-23.66	-18.27	-27.79	-19.72
-60.00	4.01	-25.45	-26.84	-42.79	-32.11	-30.52	-28.82	-42.02	-24.25	-24.99	-30.30	-26.38	-32.24	-25.34	-27.33	-26.39	-30.13	-25.96	-20.39
-50.00	6.56	-21.89	-19.81	-43.54	-40.11	-37.26	-29.60	-36.50	-36.17	-29.59	-31.54	-43.55	-17.68	-24.10	-25.90	-33.97	-46.40	-25.04	-11.42
-40.00	3.87	-21.30	-26.10	-17.78	-32.66	-21.38	-34.02	-25.93	-30.26	-26.56	-44.17	-23.97	-17.35	-24.83	-31.26	-24.24	-27.15	-16.40	-6.23
-30.00	9.36	-16.53	-19.35	-20.45	-23.77	-26.94	-34.35	-24.68	-32.65	-29.97	-25.13	-21.40	-16.51	-33.86	-27.44	-19.09	-19.46	-16.87	-11.14
-20.00	9.42	-10.55	-23.18	-15.27	-16.35	-33.70	-24.04	-31.71	-27.99	-26.72	-22.73	-18.56	-21.10	-33.34	-29.36	-21.09	-12.07	-7.73	-7.51
-10.00	18.65	10.43	-3.32	-8.05	-6.76	-15.04	-6.98	-22.01	-22.47	-17.11	-21.11	-19.45	-10.77	-18.18	-20.62	-15.13	-6.80	-3.00	-1.35
-9.00	20.51	13.54	-1.63	-8.93	-11.64	-13.11	-23.60	-15.09	-13.52	-16.48	-6.04	-9.39	-16.91	-17.62	-18.08	-6.00	-1.03	1.55	2.35
-8.00	14.66	8.48	-12.77	-18.90	-18.60	-17.93	-14.97	-15.90	-4.08	-8.12	-9.18	-8.40	-8.21	-10.58	-9.46	-6.19	-2.58	-1.08	-0.98
-7.00	14.25	11.57	-13.18	-7.30	-6.30	-19.64	-8.99	-9.86	-13.14	-2.37	-5.51	-12.09	-9.61	-8.50	-19.78	-5.12	0.15	3.03	4.34
-6.00	23.67	21.24	7.62	1.66	-9.09	-1.81	-23.73	-7.63	-12.74	-12.80	-11.83	-15.54	-6.86	-3.87	-3.46	-1.08	0.77	1.91	1.71
-5.00	24.52	22.95	14.50	-4.15	-1.82	-5.32	-3.68	-23.10	-24.23	-23.50	-15.76	-5.88	-5.38	-8.60	-1.21	4.74	7.84	9.51	10.33
-4.00	12.75	13.15	5.39	-3.62	-0.84	1.86	-0.65	-2.50	-1.97	-2.96	0.29	2.48	1.88	-0.29	-0.54	0.52	1.65	1.94	1.45
-3.00	26.41	25.55	23.48	19.67	10.21	3.82	11.81	7.50	5.01	4.87	7.09	7.95	7.45	6.04	4.97	4.15	3.61	2.75	1.72
-2.00	34.32	34.00	33.00	31.45	28.82	25.10	19.46	11.96	-2.48	12.47	15.01	15.43	15.04	14.14	13.08	11.89	10.90	10.37	9.91
-1.00	37.83	37.77	37.51	37.16	36.54	35.84	34.96	34.10	32.92	31.79	30.59	29.28	28.10	26.94	25.87	24.78	24.01	23.67	23.28
0.00	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90	38.90
1.00	37.84	37.75	37.55	37.16	36.63	35.94	35.06	34.08	32.97	31.85	30.64	29.28	28.04	26.85	25.94	24.87	23.92	23.57	23.35
2.00	34.33	33.99	33.05	31.44	28.84	25.03	19.08	10.85	1.80	12.04	14.31	14.27	13.66	11.93	9.79	6.09	-0.12	-2.83	-4.60
3.00	26.32	25.53	23.34	19.36	9.23	8.68	12.59	5.37	1.14	3.10	8.10	9.76	9.70	8.82	7.65	5.29	4.32	4.30	4.65
4.00	14.04	12.55	8.14	-0.94	2.28	1.01	-7.04	1.11	-1.71	-6.33	-4.17	-0.07	0.60	-2.38	-6.72	-7.36	-3.88	-3.47	-4.62
5.00	24.76	22.81	15.64	-11.85	-0.47	-10.73	-3.39	-2.12	-18.65	-14.08	-28.63	-8.97	-5.43	-9.18	-15.88	-3.61	0.55	2.60	3.60
6.00	24.01	21.20	8.91	3.27	-21.22	2.71	-6.74	-17.59	-11.23	-9.33	-17.05	-13.44	-9.32	-12.92	-9.49	-2.51	1.27	2.87	3.17
7.00	15.75	12.18	-15.10	-2.98	-1.54	-6.21	-9.16	-6.63	-11.21	-16.56	-26.01	-14.70	-19.10	-12.66	-11.10	-3.77	-0.49	1.43	1.55
8.00	13.24	5.53	-13.48	-15.90	-13.89	-18.76	-13.26	-12.21	-14.40	-14.56	-11.01	-13.74	-19.67	-8.46	-7.23	-8.54	-6.53	-4.55	-4.54
9.00	20.12	11.41	-1.00	-6.82	-30.06	-15.62	-14.55	-21.72	-22.91	-23.27	-7.84	-21.29	-11.24	-17.15	-11.82	-3.62	0.72	3.09	4.42
10.00	18.40	7.28	-1.15	-6.05	-12.60	-13.64	-18.39	-23.58	-24.27	-13.82	-23.69	-17.34	-14.60	-25.59	-11.08	-7.31	-2.07	1.06	2.45
20.00	9.48	-15.92	-28.52	-25.76	-40.31	-22.90	-19.73	-26.63	-23.01	-20.10	-25.11	-28.24	-30.93	-27.05	-16.72	-32.41	-18.37	-13.48	-11.75
30.00	7.55	-15.02	-19.69	-23.11	-19.57	-20.37	-24.95	-21.24	-23.11	-20.06	-32.13	-34.41	-21.93	-26.23	-16.43	-19.63	-18.53	-22.05	-10.93
40.00	4.79	-17.65	-28.23	-26.60	-21.87	-24.68	-19.20	-18.36	-25.52	-20.56	-25.16	-19.19	-35.62	-24.85	-30.32	-25.91	-26.06	-15.94	-10.37
50.00	6.32	-41.52	-21.74	-34.51	-22.11	-42.46	-20.39	-22.38	-30.86	-27.27	-34.70	-30.23	-25.10	-25.89	-27.82	-34.84	-25.16	-30.50	-21.51
60.00	3.07	-23.83	-25.89	-42.91	-26.10	-29.98	-35.07	-31.10	-36.62	-24.68	-30.01	-31.09	-23.66	-23.51	-26.41	-26.69	-35.62	-29.10	-14.32
70.00	3.45	-22.23	-29.31	-24.19	-27.32	-25.80	-38.24	-35.78	-29.79	-38.79	-33.57	-27.38	-32.62	-27.55	-30.68	-21.88	-25.10	-28.24	-22.95
80.00	4.59	-28.15	-29.56	-25.78	-28.72	-35.73	-37.21	-36.55	-31.91	-33.85	-32.24	-37.19	-40.91	-32.59	-23.17	-30.84	-30.55	-21.31	-16.10
90.00	3.08	-32.07	-29.50	-27.50	-30.09	-35.50	-46.94	-33.57	-35.67	-32.59	-39.61	-36.87	-39.01	-38.63	-23.27	-31.28	-28.15	-26.02	-11.19

## LHCP, Cross-Pol, Azimuth

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-22.26	-33.90	-41.71	-36.66	-38.29	-41.65	-44.93	-39.52	-47.18	-42.74	-41.05	-40.32	-41.30	-39.11	-36.76	-38.80	-37.69	-30.02	-6.41
-80.00	-18.90	-40.55	-34.93	-35.08	-39.28	-39.15	-42.82	-38.44	-47.39	-42.25	-38.90	-39.55	-41.66	-41.02	-35.67	-41.02	-38.04	-29.05	-4.97
-70.00	-20.65	-31.38	-25.92	-37.01	-41.21	-34.90	-47.63	-41.95	-39.63	-32.56	-39.66	-30.11	-41.23	-33.25	-35.51	-44.43	-35.56	-30.30	-5.17
-60.00	-19.16	-39.57	-38.76	-32.19	-32.86	-39.78	-41.84	-36.17	-31.61	-35.71	-33.11	-44.43	-30.09	-42.58	-31.63	-37.36	-35.39	-29.80	-6.92
-50.00	-24.75	-35.29	-38.55	-34.81	-27.42	-35.56	-24.47	-36.37	-35.39	-37.18	-39.38	-34.02	-28.60	-35.74	-26.02	-30.94	-28.88	-32.54	-10.21
-40.00	-12.24	-23.67	-38.41	-31.28	-39.25	-32.55	-29.92	-30.73	-35.66	-41.47	-39.09	-42.36	-34.13	-26.32	-36.83	-35.88	-33.52	-30.14	-16.72
-30.00	-17.53	-22.02	-29.98	-37.18	-36.19	-36.58	-27.15	-34.17	-27.20	-41.54	-35.90	-37.48	-30.93	-35.30	-37.88	-23.06	-40.91	-27.85	-17.09
-20.00	-12.47	-17.24	-35.83	-25.28	-25.35	-28.74	-31.18	-35.96	-31.11	-33.53	-30.56	-33.78	-24.60	-30.35	-32.51	-30.04	-24.66	-23.17	-4.71
-10.00	-20.49	-20.50	-20.53	-19.79	-21.66	-21.78	-30.64	-30.93	-24.15	-27.07	-29.59	-29.46	-30.04	-27.70	-26.28	-16.46	-23.56	-6.70	-3.17
-9.00	-20.35	-22.98	-22.49	-20.06	-21.67	-31.98	-28.64	-24.21	-23.86	-19.87	-24.00	-34.78	-30.80	-28.14	-25.21	-19.37	-25.81	-13.29	-16.53
-8.00	-14.45	-16.33	-20.99	-19.12	-14.89	-17.99	-22.95	-18.53	-16.09	-22.94	-28.70	-26.89	-29.82	-23.43	-32.09	-29.64	-23.33	-8.24	-2.55
-7.00	-8.41	-7.91	-9.68	-14.38	-17.47	-19.60	-19.42	-20.79	-24.61	-28.92	-19.84	-25.09	-20.50	-20.29	-23.67	-18.72	-20.80	-2.79	1.29
-6.00	-8.10	-8.07	-9.43	-12.58	-12.05	-13.41	-18.45	-18.82	-16.58	-18.36	-22.63	-24.92	-16.85	-17.82	-19.52	-22.24	-9.56	-1.84	-0.12
-5.00	-8.56	-8.91	-8.70	-9.39	-12.37	-17.72	-19.27	-17.68	-19.77	-21.72	-25.61	-27.45	-22.21	-21.93	-18.80	-16.45	-9.22	-5.51	-5.02
-4.00	-14.05	-15.22	-17.30	-18.28	-16.51	-14.71	-12.62	-11.22	-11.83	-12.64	-13.93	-17.15	-24.35	-15.17	-11.41	-14.69	-13.91	-3.91	-3.01
-3.00	-5.82	-5.14	-5.18	-5.03	-4.51	-4.66	-5.66	-7.79	-11.00	-14.97	-18.86	-13.04	-9.06	-10.21	-8.42	-16.10	-11.98	-7.42	-4.42
-2.00	-12.82	-13.17	-14.16	-15.01	-16.11	-17.00	-16.01	-13.12	-9.83	-7.72	-7.33	-9.31	-8.00	-11.03	-10.69	-7.56	-5.71	-4.55	-3.18
-1.00	2.94	2.85	1.59	1.66	0.78	0.85	-0.44	-1.33	-2.79	-3.86	-4.78	-5.07	-4.78	-4.44	-3.29	-2.70	-2.34	-1.98	-1.87
0.00	-0.74	-0.62	-0.83	-0.58	-0.70	-0.80	-0.91	-0.66	-0.74	-0.79	-0.85	-0.82	-0.68	-0.78	-0.60	-0.69	-0.77	-0.61	-0.82
1.00	6.15	5.42	4.38	2.52	2.15	1.53	-0.42	-1.22	-2.78	-3.82	-4.53	-5.30	-4.69	-4.56	-3.52	-2.69	-2.44	-1.94	-1.96
2.00	-5.05	-4.77	-5.18	-6.17	-5.44	-4.73	-4.46	-4.51	-4.17	-1.75	-0.38	-2.56	-4.26	-5.32	-5.99	-5.53	-5.19	-4.38	-4.73
3.00	-2.87	-2.57	-1.69	-0.46	-2.10	-2.01	-2.26	-2.95	-4.91	-9.31	-12.39	-8.33	-3.12	-2.36	-7.70	-6.37	-6.06	-5.81	-6.74
4.00	-6.89	-7.05	-7.68	-8.10	-8.50	-10.16	-11.88	-11.91	-8.38	-6.08	-7.15	-11.08	-17.46	-11.49	-10.48	-7.32	-4.66	-3.04	-2.61
5.00	-9.45	-9.80	-11.89	-15.97	-18.05	-17.10	-15.83	-15.05	-18.15	-20.90	-21.86	-23.15	-23.69	-21.73	-18.38	-13.49	-5.56	-5.10	-5.22
6.00	-11.47	-12.23	-13.50	-14.93	-14.02	-14.62	-17.98	-21.15	-23.82	-23.68	-27.56	-26.58	-18.49	-17.78	-24.37	-19.72	-8.66	-2.08	-0.40
7.00	-9.79	-9.80	-10.78	-13.39	-15.53	-20.67	-30.75	-33.85	-22.64	-25.83	-22.96	-24.02	-24.65	-17.42	-22.62	-20.04	-23.04	-2.05	1.73
8.00	-21.49	-21.15	-16.84	-14.60	-15.18	-17.96	-23.50	-19.81	-24.94	-23.64	-26.92	-25.56	-24.95	-22.49	-28.83	-22.93	-15.34	-9.75	-0.91
9.00	-12.70	-11.76	-13.07	-16.00	-15.20	-19.33	-21.24	-20.66	-18.41	-23.43	-36.88	-27.03	-23.45	-21.19	-26.20	-22.63	-15.60	-21.44	-12.99
10.00	-16.63	-18.86	-20.82	-21.49	-20.93	-26.73	-26.94	-24.69	-22.74	-23.30	-28.61	-23.85	-26.12	-21.29	-30.20	-21.45	-17.05	-13.99	-4.59
20.00	-12.75	-14.01	-19.85	-32.93	-29.15	-34.55	-23.77	-32.29	-29.34	-27.57	-35.42	-36.56	-33.61	-27.17	-37.42	-29.48	-29.48	-19.73	-2.23
30.00	-17.57	-29.74	-23.58	-36.53	-27.75	-28.12	-25.34	-31.47	-31.45	-27.99	-25.74	-28.54	-29.57	-26.58	-26.75	-27.32	-29.82	-22.88	-13.81
40.00	-15.82	-31.09	-27.87	-34.15	-32.02	-25.56	-28.72	-26.11	-31.72	-26.76	-30.06	-34.92	-31.33	-24.03	-26.82	-25.23	-31.88	-27.71	-17.53
50.00	-28.66	-29.37	-34.22	-37.03	-34.98	-35.65	-28.20	-32.47	-42.82	-37.81	-42.85	-31.91	-33.38	-35.61	-24.25	-41.28	-25.50	-40.27	-9.91
60.00	-23.84	-31.73	-38.26	-37.82	-30.75	-37.88	-31.73	-36.28	-27.64	-36.43	-37.55	-35.56	-41.51	-29.61	-32.58	-32.19	-38.89	-33.20	-5.66
70.00	-26.82	-31.00	-26.93	-29.89	-34.90	-39.25	-39.85	-50.42	-37.19	-44.75	-44.06	-35.86	-38.56	-33.31	-34.81	-32.10	-34.20	-28.79	-3.94
80.00	-20.84	-36.07	-37.98	-36.88	-46.94	-45.48	-48.52	-36.13	-44.55	-41.92	-44.11	-46.12	-44.96	-40.03	-35.89	-41.79	-45.69	-33.48	-3.42
90.00	-22.54	-34.98	-38.29	-39.07	-40.35	-42.87	-45.08	-39.58	-48.94	-44.89	-40.21	-46.32	-47.38	-39.79	-38.17	-38.66	-44.64	-36.48	-4.85

## LHCP, Cross-Pol, Elevation

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-6.41	-30.02	-37.69	-38.80	-36.76	-39.11	-41.30	-40.32	-41.05	-42.74	-47.18	-39.52	-44.93	-41.65	-38.29	-36.66	-41.71	-33.90	-22.26
-80.00	-4.97	-29.05	-38.04	-41.02	-35.67	-41.02	-41.66	-39.55	-38.90	-42.25	-47.39	-38.44	-42.82	-39.15	-39.28	-35.08	-34.93	-40.55	-18.90
-70.00	-5.17	-30.30	-35.56	-44.43	-35.51	-33.25	-41.23	-30.11	-39.66	-32.56	-39.63	-41.95	-47.63	-34.90	-41.21	-37.01	-25.92	-31.38	-20.65
-60.00	-6.92	-29.80	-35.39	-37.36	-31.63	-42.58	-30.09	-44.43	-33.11	-35.71	-31.61	-36.17	-41.84	-39.78	-32.86	-32.19	-38.76	-39.57	-19.16
-50.00	-10.21	-32.54	-28.88	-30.94	-26.02	-35.74	-28.60	-34.02	-39.38	-37.18	-35.39	-36.37	-24.47	-35.56	-27.42	-34.81	-38.55	-35.29	-24.75
-40.00	-16.72	-30.14	-33.52	-35.88	-36.83	-26.32	-34.13	-42.36	-39.09	-41.47	-35.66	-30.73	-29.92	-32.55	-39.25	-31.28	-38.41	-23.67	-12.24
-30.00	-17.09	-27.85	-40.91	-23.06	-37.88	-35.30	-30.93	-37.48	-35.90	-41.54	-27.20	-34.17	-27.15	-36.58	-36.19	-37.18	-29.98	-22.02	-17.53
-20.00	-4.71	-23.17	-24.66	-30.04	-32.51	-30.35	-24.60	-33.78	-30.56	-33.53	-31.11	-35.96	-31.18	-28.74	-25.35	-25.28	-35.83	-17.24	-12.47
-10.00	-3.17	-6.70	-23.56	-16.46	-26.28	-27.70	-30.04	-29.46	-29.59	-27.07	-24.15	-30.93	-30.64	-21.78	-21.66	-19.79	-20.53	-20.50	-20.49
-9.00	-16.53	-13.29	-25.81	-19.37	-25.21	-28.14	-30.80	-34.78	-24.00	-19.87	-23.86	-24.21	-28.64	-31.98	-21.67	-20.06	-22.49	-22.98	-20.35
-8.00	-2.55	-8.24	-23.33	-29.64	-32.09	-23.43	-29.82	-26.89	-28.70	-22.94	-16.09	-18.53	-22.95	-17.99	-14.89	-19.12	-20.99	-16.33	-14.45
-7.00	1.29	-2.79	-20.80	-18.72	-23.67	-20.29	-20.50	-25.09	-19.84	-28.92	-24.61	-20.79	-19.42	-19.60	-17.47	-14.38	-9.68	-7.91	-8.41
-6.00	-0.12	-1.84	-9.56	-22.24	-19.52	-17.82	-16.85	-24.92	-22.63	-18.36	-16.58	-18.82	-18.45	-13.41	-12.05	-12.58	-9.43	-8.07	-8.10
-5.00	-5.02	-5.51	-9.22	-16.45	-18.80	-21.93	-22.21	-27.45	-25.61	-21.72	-19.77	-17.68	-19.27	-17.72	-12.37	-9.39	-8.70	-8.91	-8.56
-4.00	-3.01	-3.91	-13.91	-14.69	-11.41	-15.17	-24.35	-17.15	-13.93	-12.64	-11.83	-11.22	-12.62	-14.71	-16.51	-18.28	-17.30	-15.22	-14.05
-3.00	-4.42	-7.42	-11.98	-16.10	-8.42	-10.21	-9.06	-13.04	-18.86	-14.97	-11.00	-7.79	-5.66	-4.66	-4.51	-5.03	-5.18	-5.14	-5.82
-2.00	-3.18	-4.55	-5.71	-7.56	-10.69	-11.03	-8.00	-9.31	-7.33	-7.72	-9.83	-13.12	-16.01	-17.00	-16.11	-15.01	-14.16	-13.17	-12.82
-1.00	-1.87	-1.98	-2.34	-2.70	-3.29	-4.44	-4.78	-5.07	-4.78	-3.86	-2.79	-1.33	-0.44	0.85	0.78	1.66	1.59	2.85	2.94
0.00	-0.82	-0.61	-0.77	-0.69	-0.60	-0.78	-0.68	-0.82	-0.85	-0.79	-0.74	-0.66	-0.91	-0.80	-0.70	-0.58	-0.83	-0.62	-0.74
1.00	-1.96	-1.94	-2.44	-2.69	-3.52	-4.56	-4.69	-5.30	-4.53	-3.82	-2.78	-1.22	-0.42	1.53	2.15	2.52	4.38	5.42	6.15
2.00	-4.73	-4.38	-5.19	-5.53	-5.99	-5.32	-4.26	-2.56	-0.38	-1.75	-4.17	-4.51	-4.46	-4.73	-5.44	-6.17	-5.18	-4.77	-5.05
3.00	-6.74	-5.81	-6.06	-6.37	-7.70	-2.36	-3.12	-8.33	-12.39	-9.31	-4.91	-2.95	-2.26	-2.01	-2.10	-0.46	-1.69	-2.57	-2.87
4.00	-2.61	-3.04	-4.66	-7.32	-10.48	-11.49	-17.46	-11.08	-7.15	-6.08	-8.38	-11.91	-11.88	-10.16	-8.50	-8.10	-7.68	-7.05	-6.89
5.00	-5.22	-5.10	-5.56	-13.49	-18.38	-21.73	-23.69	-23.15	-21.86	-20.90	-18.15	-15.05	-15.83	-17.10	-18.05	-15.97	-11.89	-9.80	-9.45
6.00	-0.40	-2.08	-8.66	-19.72	-24.37	-17.78	-18.49	-26.58	-27.56	-23.68	-23.82	-21.15	-17.98	-14.62	-14.02	-14.93	-13.50	-12.23	-11.47
7.00	1.73	-2.05	-23.04	-20.04	-22.62	-17.42	-24.65	-24.02	-22.96	-25.83	-22.64	-33.85	-30.75	-20.67	-15.53	-13.39	-10.78	-9.80	-9.79
8.00	-0.91	-9.75	-15.34	-22.93	-28.83	-22.49	-24.95	-25.56	-26.92	-23.64	-24.94	-19.81	-23.50	-17.96	-15.18	-14.60	-16.84	-21.15	-21.49
9.00	-12.99	-21.44	-15.60	-22.63	-26.20	-21.19	-23.45	-27.03	-36.88	-23.43	-18.41	-20.66	-21.24	-19.33	-15.20	-16.00	-13.07	-11.76	-12.70
10.00	-4.59	-13.99	-17.05	-21.45	-30.20	-21.29	-26.12	-23.85	-28.61	-23.30	-22.74	-24.69	-26.94	-26.73	-20.93	-21.49	-20.82	-18.86	-16.63
20.00	-2.23	-19.73	-29.48	-29.48	-37.42	-27.17	-33.61	-36.56	-35.42	-27.57	-29.34	-32.29	-23.77	-34.55	-29.15	-32.93	-19.85	-14.01	-12.75
30.00	-13.81	-22.88	-29.82	-27.32	-26.75	-26.58	-29.57	-28.54	-25.74	-27.99	-31.45	-31.47	-25.34	-28.12	-27.75	-36.53	-23.58	-29.74	-17.57
40.00	-17.53	-27.71	-31.88	-25.23	-26.82	-24.03	-31.33	-34.92	-30.06	-26.76	-31.72	-26.11	-28.72	-25.56	-32.02	-34.15	-27.87	-31.09	-15.82
50.00	-9.91	-40.27	-25.50	-41.28	-24.25	-35.61	-33.38	-31.91	-42.85	-37.81	-42.82	-32.47	-28.20	-35.65	-34.98	-37.03	-34.22	-29.37	-28.66
60.00	-5.66	-33.20	-38.89	-32.19	-32.58	-29.61	-41.51	-35.56	-37.55	-36.43	-27.64	-36.28	-31.73	-37.88	-30.75	-37.82	-38.26	-31.73	-23.84
70.00	-3.94	-28.79	-34.20	-32.10	-34.81	-33.31	-38.56	-35.86	-44.06	-44.75	-37.19	-50.42	-39.85	-39.25	-34.90	-29.89	-26.93	-31.00	-26.82
80.00	-3.42	-33.48	-45.69	-41.79	-35.89	-40.03	-44.96	-46.12	-44.11	-41.92	-44.55	-36.13	-48.52	-45.48	-46.94	-36.88	-37.98	-36.07	-20.84
90.00	-4.85	-36.48	-44.64	-38.66	-38.17	-39.79	-47.38	-46.32	-40.21	-44.89	-48.94	-39.58	-45.08	-42.87	-40.35	-39.07	-38.29	-34.98	-22.54

## RHCP, Co-Pol, Azimuth

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-13.23	-30.09	-31.43	-31.23	-23.99	-35.48	-33.91	-29.66	-36.05	-35.06	-32.00	-39.23	-36.25	-37.55	-38.42	-26.49	-43.22	-28.93	2.32
-80.00	-11.15	-32.70	-32.46	-33.19	-22.88	-40.97	-34.39	-28.06	-40.24	-43.29	-32.84	-37.91	-29.38	-39.32	-36.37	-24.99	-33.15	-25.88	4.20
-70.00	-15.04	-19.72	-23.30	-26.58	-27.54	-29.40	-27.20	-36.79	-36.22	-27.69	-34.42	-25.51	-40.95	-32.72	-25.71	-42.37	-37.11	-22.19	4.60
-60.00	-15.08	-27.27	-24.93	-26.71	-30.34	-26.38	-23.22	-28.54	-40.80	-32.75	-38.73	-29.38	-31.89	-37.50	-30.56	-21.47	-23.33	-27.35	2.63
-50.00	-13.79	-25.70	-35.88	-34.94	-23.08	-29.01	-22.32	-33.88	-33.12	-21.44	-30.39	-25.22	-44.10	-26.66	-22.52	-32.93	-31.19	-22.51	5.55
-40.00	-7.26	-14.72	-22.45	-19.90	-28.66	-40.39	-25.05	-29.37	-44.34	-33.81	-23.65	-25.04	-23.47	-29.94	-21.38	-25.29	-28.71	-26.46	2.68
-30.00	-17.91	-12.34	-31.50	-20.35	-18.55	-20.83	-24.73	-30.30	-20.86	-49.53	-23.19	-39.13	-22.18	-16.91	-20.68	-26.79	-21.18	-14.35	8.53
-20.00	-9.78	-15.62	-17.98	-14.58	-17.98	-23.05	-18.71	-18.46	-16.25	-29.54	-24.08	-18.06	-20.39	-23.72	-21.67	-23.06	-19.69	-9.67	9.15
-10.00	-2.05	-4.03	-7.62	-13.12	-24.03	-12.06	-9.57	-14.18	-24.48	-24.74	-21.06	-13.51	-8.24	-11.20	-9.75	-12.42	-3.65	7.14	17.90
-9.00	2.60	1.17	-2.33	-10.92	-13.92	-13.67	-17.15	-18.98	-16.44	-11.45	-16.24	-27.87	-14.09	-17.09	-14.93	-10.63	-0.43	11.39	20.05
-8.00	-1.19	-1.43	-4.45	-10.22	-21.21	-19.43	-38.77	-18.87	-9.18	-17.10	-4.44	-15.12	-18.39	-21.02	-19.67	-16.85	-7.00	7.21	14.48
-7.00	3.54	2.76	0.86	-3.29	-13.72	-13.80	-17.18	-30.89	-6.27	-1.80	-8.25	-17.17	-11.11	-10.67	-6.87	-7.04	-7.57	10.19	13.61
-6.00	1.04	0.35	-2.28	-6.14	-7.71	-4.43	-1.86	-3.84	-4.20	-8.27	-10.91	-4.42	-8.81	-4.22	-5.06	3.71	7.72	20.21	23.30
-5.00	10.16	9.60	8.36	5.63	0.67	-12.64	-7.68	-6.13	-8.85	-11.17	-12.79	-24.59	-11.17	-11.80	0.39	-1.40	14.79	22.16	24.27
-4.00	0.11	0.81	0.05	-2.05	-4.57	-5.65	-1.66	-3.33	-9.00	-9.06	-2.79	-0.61	-4.60	-3.66	-4.56	-7.16	8.61	12.33	12.69
-3.00	1.77	3.08	3.32	3.99	4.63	5.59	6.30	7.16	6.79	5.47	6.22	7.92	10.59	4.59	9.87	19.19	22.70	25.17	26.12
-2.00	10.15	10.73	11.55	12.53	13.39	14.44	14.81	15.28	14.75	12.05	-0.40	11.07	19.05	24.84	28.47	30.96	32.68	33.71	34.09
-1.00	23.40	23.50	23.82	24.54	25.43	26.68	27.86	29.11	30.36	31.58	32.74	33.80	34.79	35.65	36.32	36.84	37.28	37.53	37.62
0.00	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70
1.00	23.43	23.43	23.72	24.70	25.54	26.77	27.79	29.11	30.49	31.74	32.93	33.98	34.84	35.72	36.40	36.97	37.31	37.54	37.64
2.00	2.49	1.95	3.05	5.94	8.40	11.19	12.57	13.77	13.76	11.37	-3.53	10.43	18.82	24.78	28.46	31.08	32.70	33.69	34.11
3.00	5.20	4.59	4.87	6.20	7.10	9.08	10.17	10.62	9.40	5.46	0.90	5.59	12.43	8.14	8.50	18.00	22.66	24.96	25.99
4.00	-7.40	-4.52	-4.22	-4.99	-4.87	-1.60	-0.19	-0.67	-6.88	-5.27	-0.17	-1.28	-4.84	1.57	2.29	4.97	9.53	13.97	14.33
5.00	2.93	2.00	-0.52	-4.85	-13.11	-6.64	-4.95	-6.88	-22.77	-18.93	-23.10	-19.87	-2.06	-6.43	-2.61	-10.85	14.99	22.79	24.55
6.00	2.93	3.10	1.94	-1.10	-7.29	-11.39	-9.27	-12.87	-15.88	-9.95	-13.06	-10.58	-7.00	3.52	-8.68	2.25	7.34	20.81	23.63
7.00	1.98	1.76	-0.56	-2.62	-6.72	-7.79	-15.51	-14.25	-20.13	-20.31	-11.29	-9.03	-7.91	-5.78	-0.18	-6.07	-9.53	10.85	14.85
8.00	-6.24	-7.58	-11.47	-12.68	-11.00	-13.54	-17.77	-13.40	-9.67	-11.86	-15.93	-23.35	-22.13	-22.29	-15.08	-17.04	-9.38	6.85	13.74
9.00	4.80	3.98	2.05	-1.42	-7.12	-12.41	-13.29	-18.13	-7.61	-13.56	-17.38	-22.04	-22.97	-18.35	-20.23	-6.90	0.70	11.25	20.02
10.00	2.89	1.69	-1.56	-10.73	-24.09	-17.87	-13.24	-25.62	-28.47	-16.02	-17.83	-19.92	-16.59	-16.16	-12.72	-3.89	-1.06	6.31	17.96
20.00	-11.84	-14.56	-24.98	-22.34	-35.49	-23.80	-25.91	-29.63	-22.39	-20.54	-46.06	-18.85	-25.92	-35.11	-19.83	-23.77	-23.99	-15.62	10.06
30.00	-9.55	-11.55	-28.52	-29.60	-24.53	-21.57	-23.89	-20.98	-21.33	-20.76	-19.73	-18.50	-26.11	-21.99	-20.64	-14.93	-22.82	-14.75	7.16
40.00	-11.45	-18.10	-44.23	-26.88	-38.61	-49.46	-24.47	-23.63	-25.57	-24.77	-32.71	-22.24	-24.52	-19.19	-24.06	-27.85	-18.98	-19.24	3.23
50.00	-22.60	-25.88	-24.54	-25.05	-26.50	-20.83	-20.36	-28.38	-28.35	-26.12	-41.73	-31.76	-23.71	-34.96	-29.67	-39.28	-30.64	-26.22	5.22
60.00	-16.94	-21.27	-26.05	-30.11	-32.19	-35.98	-28.08	-33.02	-28.40	-23.99	-31.18	-32.28	-31.42	-27.88	-34.13	-28.44	-47.68	-22.78	2.27
70.00	-22.86	-26.67	-22.96	-26.23	-30.58	-37.17	-49.93	-34.50	-38.39	-31.49	-33.02	-34.65	-34.68	-38.11	-33.87	-36.68	-32.53	-29.76	2.46
80.00	-15.84	-26.61	-25.34	-28.80	-31.81	-35.00	-43.10	-35.98	-37.25	-42.35	-32.91	-36.96	-29.53	-41.33	-32.41	-26.81	-31.89	-32.06	3.03
90.00	-10.20	-28.28	-27.68	-29.65	-33.56	-37.68	-38.84	-32.93	-40.74	-37.60	-34.31	-34.52	-39.29	-34.19	-35.89	-30.76	-30.26	-35.58	1.14

## RHCP, Co-Pol, Elevation

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	2.32	-28.93	-43.22	-26.49	-38.42	-37.55	-36.25	-39.23	-32.00	-35.06	-36.05	-29.66	-33.91	-35.48	-23.99	-31.23	-31.43	-30.09	-13.23
-80.00	4.20	-25.88	-33.15	-24.99	-36.37	-39.32	-29.38	-37.91	-32.84	-43.29	-40.24	-28.06	-34.39	-40.97	-22.88	-33.19	-32.46	-32.70	-11.15
-70.00	4.60	-22.19	-37.11	-42.37	-25.71	-32.72	-40.95	-25.51	-34.42	-27.69	-36.22	-36.79	-27.20	-29.40	-27.54	-26.58	-23.30	-19.72	-15.04
-60.00	2.63	-27.35	-23.33	-21.47	-30.56	-37.50	-31.89	-29.38	-38.73	-32.75	-40.80	-28.54	-23.22	-26.38	-30.34	-26.71	-24.93	-27.27	-15.08
-50.00	5.55	-22.51	-31.19	-32.93	-22.52	-26.66	-44.10	-25.22	-30.39	-21.44	-33.12	-33.88	-22.32	-29.01	-23.08	-34.94	-35.88	-25.70	-13.79
-40.00	2.68	-26.46	-28.71	-25.29	-21.38	-29.94	-23.47	-25.04	-23.65	-33.81	-44.34	-29.37	-25.05	-40.39	-28.66	-19.90	-22.45	-14.72	-7.26
-30.00	8.53	-14.35	-21.18	-26.79	-20.68	-16.91	-22.18	-39.13	-23.19	-49.53	-20.86	-30.30	-24.73	-20.83	-18.55	-20.35	-31.50	-12.34	-17.91
-20.00	9.15	-9.67	-19.69	-23.06	-21.67	-23.72	-20.39	-18.06	-24.08	-29.54	-16.25	-18.46	-18.71	-23.05	-17.98	-14.58	-17.98	-15.62	-9.78
-10.00	17.90	7.14	-3.65	-12.42	-9.75	-11.20	-8.24	-13.51	-21.06	-24.74	-24.48	-14.18	-9.57	-12.06	-24.03	-13.12	-7.62	-4.03	-2.05
-9.00	20.05	11.39	-0.43	-10.63	-14.93	-17.09	-14.09	-27.87	-16.24	-11.45	-16.44	-18.98	-17.15	-13.67	-13.92	-10.92	-2.33	1.17	2.60
-8.00	14.48	7.21	-7.00	-16.85	-19.67	-21.02	-18.39	-15.12	-4.44	-17.10	-9.18	-18.87	-38.77	-19.43	-21.21	-10.22	-4.45	-1.43	-1.19
-7.00	13.61	10.19	-7.57	-7.04	-6.87	-10.67	-11.11	-17.17	-8.25	-1.80	-6.27	-30.89	-17.18	-13.80	-13.72	-3.29	0.86	2.76	3.54
-6.00	23.30	20.21	7.72	3.71	-5.06	-4.22	-8.81	-4.42	-10.91	-8.27	-4.20	-3.84	-1.86	-4.43	-7.71	-6.14	-2.28	0.35	1.04
-5.00	24.27	22.16	14.79	-1.40	0.39	-11.80	-11.17	-24.59	-12.79	-11.17	-8.85	-6.13	-7.68	-12.64	0.67	5.63	8.36	9.60	10.16
-4.00	12.69	12.33	8.61	-7.16	-4.56	-3.66	-4.60	-0.61	-2.79	-9.06	-9.00	-3.33	-1.66	-5.65	-4.57	-2.05	0.05	0.81	0.11
-3.00	26.12	25.17	22.70	19.19	9.87	4.59	10.59	7.92	6.22	5.47	6.79	7.16	6.30	5.59	4.63	3.99	3.32	3.08	1.77
-2.00	34.09	33.71	32.68	30.96	28.47	24.84	19.05	11.07	-0.40	12.05	14.75	15.28	14.81	14.44	13.39	12.53	11.55	10.73	10.15
-1.00	37.62	37.53	37.28	36.84	36.32	35.65	34.79	33.80	32.74	31.58	30.36	29.11	27.86	26.68	25.43	24.54	23.82	23.50	23.40
0.00	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70	38.70
1.00	37.64	37.54	37.31	36.97	36.40	35.72	34.84	33.98	32.93	31.74	30.49	29.11	27.79	26.77	25.54	24.70	23.72	23.43	23.43
2.00	34.11	33.69	32.70	31.08	28.46	24.78	18.82	10.43	-3.53	11.37	13.76	13.77	12.57	11.19	8.40	5.94	3.05	1.95	2.49
3.00	25.99	24.96	22.66	18.00	8.50	8.14	12.43	5.59	0.90	5.46	9.40	10.62	10.17	9.08	7.10	6.20	4.87	4.59	5.20
4.00	14.33	13.97	9.53	4.97	2.29	1.57	-4.84	-1.28	-0.17	-5.27	-6.88	-0.67	-0.19	-1.60	-4.87	-4.99	-4.22	-4.52	-7.40
5.00	24.55	22.79	14.99	-10.85	-2.61	-6.43	-2.06	-19.87	-23.10	-18.93	-22.77	-6.88	-4.95	-6.64	-13.11	-4.85	-0.52	2.00	2.93
6.00	23.63	20.81	7.34	2.25	-8.68	3.52	-7.00	-10.58	-13.06	-9.95	-15.88	-12.87	-9.27	-11.39	-7.29	-1.10	1.94	3.10	2.93
7.00	14.85	10.85	-9.53	-6.07	-0.18	-5.78	-7.91	-9.03	-11.29	-20.31	-20.13	-14.25	-15.51	-7.79	-6.72	-2.62	-0.56	1.76	1.98
8.00	13.74	6.85	-9.38	-17.04	-15.08	-22.29	-22.13	-23.35	-15.93	-11.86	-9.67	-13.40	-17.77	-13.54	-11.00	-12.68	-11.47	-7.58	-6.24
9.00	20.02	11.25	0.70	-6.90	-20.23	-18.35	-22.97	-22.04	-17.38	-13.56	-7.61	-18.13	-13.29	-12.41	-7.12	-1.42	2.05	3.98	4.80
10.00	17.96	6.31	-1.06	-3.89	-12.72	-16.16	-16.59	-19.92	-17.83	-16.02	-28.47	-25.62	-13.24	-17.87	-24.09	-10.73	-1.56	1.69	2.89
20.00	10.06	-15.62	-23.99	-23.77	-19.83	-35.11	-25.92	-18.85	-46.06	-20.54	-22.39	-29.63	-25.91	-23.80	-35.49	-22.34	-24.98	-14.56	-11.84
30.00	7.16	-14.75	-22.82	-14.93	-20.64	-21.99	-26.11	-18.50	-19.73	-20.76	-21.33	-20.98	-23.89	-21.57	-24.53	-29.60	-28.52	-11.55	-9.55
40.00	3.23	-19.24	-18.98	-27.85	-24.06	-19.19	-24.52	-22.24	-32.71	-24.77	-25.57	-23.63	-24.47	-49.46	-38.61	-26.88	-44.23	-18.10	-11.45
50.00	5.22	-26.22	-30.64	-39.28	-29.67	-34.96	-23.71	-31.76	-41.73	-26.12	-28.35	-28.38	-20.36	-20.83	-26.50	-25.05	-24.54	-25.88	-22.60
60.00	2.27	-22.78	-47.68	-28.44	-34.13	-27.88	-31.42	-32.28	-31.18	-23.99	-28.40	-33.02	-28.08	-35.98	-32.19	-30.11	-26.05	-21.27	-16.94
70.00	2.46	-29.76	-32.53	-36.68	-33.87	-38.11	-34.68	-34.65	-33.02	-31.49	-38.39	-34.50	-49.93	-37.17	-30.58	-26.23	-22.96	-26.67	-22.86
80.00	3.03	-32.06	-31.89	-26.81	-32.41	-41.33	-29.53	-36.96	-32.91	-42.35	-37.25	-35.98	-43.10	-35.00	-31.81	-28.80	-25.34	-26.61	-15.84
90.00	1.14	-35.58	-30.26	-30.76	-35.89	-34.19	-39.29	-34.52	-34.31	-37.60	-40.74	-32.93	-38.84	-37.68	-33.56	-29.65	-27.68	-28.28	-10.20



## RHCP, Cross-Pol, Azimuth

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-23.36	-42.65	-43.61	-42.84	-32.91	-39.55	-42.44	-41.29	-43.90	-42.34	-40.27	-42.63	-44.64	-42.89	-40.89	-39.22	-48.25	-36.97	-6.00
-80.00	-20.57	-39.80	-37.59	-40.09	-30.52	-41.25	-44.12	-39.05	-48.81	-52.97	-38.70	-44.57	-41.94	-40.71	-40.78	-39.79	-42.22	-36.75	-4.37
-70.00	-19.15	-33.46	-37.59	-39.66	-37.76	-35.96	-35.10	-38.21	-48.15	-41.38	-44.63	-30.58	-35.00	-36.95	-35.20	-32.02	-37.23	-32.19	-4.03
-60.00	-19.40	-34.93	-41.25	-33.99	-39.74	-34.97	-34.65	-44.57	-51.52	-41.79	-45.69	-33.75	-34.41	-39.56	-37.56	-32.95	-34.70	-30.11	-4.94
-50.00	-26.78	-35.16	-41.25	-38.72	-41.65	-31.27	-29.28	-35.22	-41.75	-29.03	-40.30	-32.34	-31.80	-33.94	-28.69	-31.07	-37.51	-32.85	-9.07
-40.00	-15.86	-26.09	-36.65	-32.70	-32.87	-35.52	-36.62	-38.06	-36.74	-33.66	-36.58	-36.00	-31.15	-29.82	-35.02	-30.55	-35.49	-31.70	-13.74
-30.00	-16.96	-22.06	-27.85	-30.50	-28.42	-35.86	-32.26	-34.27	-32.77	-31.67	-33.20	-46.93	-29.83	-32.84	-38.01	-28.55	-33.32	-29.93	-21.21
-20.00	-15.68	-19.44	-31.33	-26.41	-32.03	-30.72	-27.78	-32.22	-26.21	-35.31	-35.29	-30.02	-34.13	-27.98	-30.59	-28.07	-25.93	-21.46	-4.32
-10.00	-19.13	-18.78	-21.00	-25.97	-30.00	-33.13	-22.71	-24.43	-33.77	-26.13	-30.31	-28.13	-27.18	-26.47	-21.99	-21.14	-27.99	-6.10	-1.98
-9.00	-15.45	-16.38	-17.78	-22.94	-32.29	-27.93	-26.18	-34.85	-20.11	-18.39	-24.62	-27.71	-31.90	-23.52	-22.05	-20.73	-24.26	-12.83	-15.78
-8.00	-12.57	-12.83	-14.02	-16.03	-18.19	-19.81	-22.51	-16.65	-16.63	-23.90	-25.27	-28.30	-39.31	-21.21	-25.16	-29.97	-20.08	-7.00	-3.35
-7.00	-9.32	-9.21	-10.07	-11.96	-15.62	-18.76	-17.23	-18.16	-22.33	-25.83	-20.66	-20.88	-19.66	-17.58	-22.56	-18.65	-18.11	-2.41	1.05
-6.00	-9.98	-10.34	-10.51	-9.85	-9.57	-10.96	-14.42	-22.60	-24.59	-19.04	-18.24	-18.76	-16.57	-18.29	-14.57	-19.50	-10.03	-1.99	-0.81
-5.00	-7.65	-7.93	-7.95	-8.30	-10.12	-16.06	-22.39	-19.46	-18.96	-18.31	-19.61	-25.72	-27.49	-16.81	-15.75	-17.97	-11.94	-8.96	-8.06
-4.00	-12.99	-12.52	-12.87	-13.91	-14.67	-15.53	-14.42	-12.88	-11.22	-11.63	-13.78	-18.21	-20.80	-12.86	-10.38	-10.78	-6.02	-3.30	-3.02
-3.00	-3.94	-3.48	-2.86	-2.50	-2.24	-2.62	-3.09	-4.93	-8.54	-12.34	-16.29	-15.76	-10.52	-6.04	-2.31	-3.61	-3.81	-3.98	-2.14
-2.00	-8.56	-9.70	-10.49	-11.42	-12.11	-12.96	-13.85	-14.47	-10.71	-8.12	-6.13	-1.52	-1.64	-2.19	-1.53	-1.48	-1.58	-1.78	-1.26
-1.00	-5.51	-4.86	-1.01	-1.10	-2.33	-7.83	-7.34	-5.86	-7.81	-7.82	-6.51	-5.15	-3.31	-1.88	-1.41	-1.79	-2.80	-2.56	-2.36
0.00	-4.55	-4.07	-4.20	-4.29	-4.17	-4.42	-4.41	-4.42	-4.15	-4.02	-4.50	-4.13	-4.37	-4.10	-4.17	-4.13	-4.51	-4.03	-4.06
1.00	5.27	4.13	4.04	1.94	2.17	2.31	1.75	0.70	-0.22	-1.56	-3.43	-5.01	-6.65	-7.05	-7.43	-6.92	-5.88	-4.43	-4.11
2.00	-15.17	-16.21	-11.78	-10.00	-7.83	-4.09	-1.50	-1.37	-1.21	-0.37	-0.61	-2.65	-4.57	-8.66	-12.43	-9.40	-6.15	-4.00	-4.11
3.00	-2.57	-1.99	-0.92	-0.11	0.60	0.93	0.06	-2.12	-5.03	-10.46	-10.53	-7.90	-4.78	-2.91	-13.56	-16.81	-9.28	-5.29	-5.82
4.00	-10.43	-9.81	-8.98	-8.96	-9.66	-11.50	-13.27	-12.12	-8.68	-6.63	-9.23	-16.77	-26.97	-10.54	-11.06	-12.22	-6.49	-4.04	-4.46
5.00	-8.39	-8.66	-9.56	-11.23	-15.33	-21.37	-22.57	-19.22	-18.65	-19.47	-18.65	-20.33	-18.83	-20.44	-21.92	-14.11	-5.97	-6.91	-9.09
6.00	-11.12	-10.86	-10.09	-10.04	-11.37	-13.19	-17.82	-24.84	-27.21	-25.58	-28.38	-22.20	-17.57	-16.80	-15.10	-18.05	-8.49	-2.50	-0.18
7.00	-9.48	-9.41	-9.09	-10.46	-12.76	-17.84	-24.42	-28.36	-24.43	-30.59	-21.94	-27.29	-24.92	-18.62	-24.35	-20.66	-21.62	-2.74	2.43
8.00	-25.37	-24.41	-25.57	-24.77	-26.31	-21.72	-26.60	-22.41	-27.43	-20.07	-28.14	-21.01	-23.13	-26.80	-23.43	-27.04	-16.38	-10.70	-0.31
9.00	-13.51	-13.78	-15.72	-17.20	-16.69	-21.01	-20.15	-22.31	-21.20	-25.36	-31.56	-27.93	-24.84	-24.49	-20.46	-21.55	-16.23	-19.48	-16.88
10.00	-17.35	-18.00	-17.48	-18.55	-23.69	-31.28	-33.89	-32.60	-23.64	-32.14	-29.39	-31.25	-30.73	-32.63	-23.82	-22.03	-15.76	-12.57	-3.78
20.00	-11.36	-14.55	-25.95	-36.07	-33.69	-27.13	-27.88	-29.12	-23.61	-34.35	-31.03	-34.77	-27.41	-35.98	-28.39	-26.40	-24.50	-22.54	-3.88
30.00	-19.03	-23.69	-25.34	-27.67	-29.24	-28.53	-25.97	-26.57	-27.13	-28.11	-25.69	-29.12	-28.72	-26.85	-30.31	-22.19	-32.70	-29.28	-12.47
40.00	-18.23	-30.84	-32.90	-32.26	-38.99	-34.77	-32.71	-31.76	-32.85	-29.30	-36.30	-32.96	-31.58	-27.42	-28.78	-31.75	-34.84	-31.05	-13.24
50.00	-24.70	-34.35	-34.91	-29.71	-38.55	-34.08	-39.82	-38.92	-40.88	-31.40	-37.48	-37.30	-32.91	-37.50	-29.80	-39.57	-29.34	-39.56	-8.40
60.00	-22.64	-34.80	-37.13	-35.78	-40.27	-33.31	-37.41	-37.78	-37.23	-46.79	-37.53	-40.75	-29.33	-36.17	-36.95	-35.35	-37.42	-35.36	-3.74
70.00	-29.63	-29.99	-30.01	-31.46	-37.43	-31.91	-40.44	-43.27	-49.85	-47.69	-46.04	-31.03	-42.40	-33.16	-41.06	-45.01	-40.18	-34.35	-1.66
80.00	-21.00	-34.08	-33.41	-35.59	-35.70	-42.45	-47.00	-34.20	-48.61	-46.79	-43.73	-41.81	-41.56	-39.84	-35.65	-35.47	-41.34	-49.65	-2.76
90.00	-23.20	-33.83	-37.67	-36.72	-37.73	-43.52	-45.62	-35.12	-45.95	-46.88	-43.66	-41.51	-47.12	-40.28	-36.30	-35.43	-39.17	-44.97	-4.49



## RHCP, Cross-Pol, Elevation

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-6.00	-36.97	-48.25	-39.22	-40.89	-42.89	-44.64	-42.63	-40.27	-42.34	-43.90	-41.29	-42.44	-39.55	-32.91	-42.84	-43.61	-42.65	-23.36
-80.00	-4.37	-36.75	-42.22	-39.79	-40.78	-40.71	-41.94	-44.57	-38.70	-52.97	-48.81	-39.05	-44.12	-41.25	-30.52	-40.09	-37.59	-39.80	-20.57
-70.00	-4.03	-32.19	-37.23	-32.02	-35.20	-36.95	-35.00	-30.58	-44.63	-41.38	-48.15	-38.21	-35.10	-35.96	-37.76	-39.66	-37.59	-33.46	-19.15
-60.00	-4.94	-30.11	-34.70	-32.95	-37.56	-39.56	-34.41	-33.75	-45.69	-41.79	-51.52	-44.57	-34.65	-34.97	-39.74	-33.99	-41.25	-34.93	-19.40
-50.00	-9.07	-32.85	-37.51	-31.07	-28.69	-33.94	-31.80	-32.34	-40.30	-29.03	-41.75	-35.22	-29.28	-31.27	-41.65	-38.72	-41.25	-35.16	-26.78
-40.00	-13.74	-31.70	-35.49	-30.55	-35.02	-29.82	-31.15	-36.00	-36.58	-33.66	-36.74	-38.06	-36.62	-35.52	-32.87	-32.70	-36.65	-26.09	-15.86
-30.00	-21.21	-29.93	-33.32	-28.55	-38.01	-32.84	-29.83	-46.93	-33.20	-31.67	-32.77	-34.27	-32.26	-35.86	-28.42	-30.50	-27.85	-22.06	-16.96
-20.00	-4.32	-21.46	-25.93	-28.07	-30.59	-27.98	-34.13	-30.02	-35.29	-35.31	-26.21	-32.22	-27.78	-30.72	-32.03	-26.41	-31.33	-19.44	-15.68
-10.00	-1.98	-6.10	-27.99	-21.14	-21.99	-26.47	-27.18	-28.13	-30.31	-26.13	-33.77	-24.43	-22.71	-33.13	-30.00	-25.97	-21.00	-18.78	-19.13
-9.00	-15.78	-12.83	-24.26	-20.73	-22.05	-23.52	-31.90	-27.71	-24.62	-18.39	-20.11	-34.85	-26.18	-27.93	-32.29	-22.94	-17.78	-16.38	-15.45
-8.00	-3.35	-7.00	-20.08	-29.97	-25.16	-21.21	-39.31	-28.30	-25.27	-23.90	-16.63	-16.65	-22.51	-19.81	-18.19	-16.03	-14.02	-12.83	-12.57
-7.00	1.05	-2.41	-18.11	-18.65	-22.56	-17.58	-19.66	-20.88	-20.66	-25.83	-22.33	-18.16	-17.23	-18.76	-15.62	-11.96	-10.07	-9.21	-9.32
-6.00	-0.81	-1.99	-10.03	-19.50	-14.57	-18.29	-16.57	-18.76	-18.24	-19.04	-24.59	-22.60	-14.42	-10.96	-9.57	-9.85	-10.51	-10.34	-9.98
-5.00	-8.06	-8.96	-11.94	-17.97	-15.75	-16.81	-27.49	-25.72	-19.61	-18.31	-18.96	-19.46	-22.39	-16.06	-10.12	-8.30	-7.95	-7.93	-7.65
-4.00	-3.02	-3.30	-6.02	-10.78	-10.38	-12.86	-20.80	-18.21	-13.78	-11.63	-11.22	-12.88	-14.42	-15.53	-14.67	-13.91	-12.87	-12.52	-12.99
-3.00	-2.14	-3.98	-3.81	-3.61	-2.31	-6.04	-10.52	-15.76	-16.29	-12.34	-8.54	-4.93	-3.09	-2.62	-2.24	-2.50	-2.86	-3.48	-3.94
-2.00	-1.26	-1.78	-1.58	-1.48	-1.53	-2.19	-1.64	-1.52	-6.13	-8.12	-10.71	-14.47	-13.85	-12.96	-12.11	-11.42	-10.49	-9.70	-8.56
-1.00	-2.36	-2.56	-2.80	-1.79	-1.41	-1.88	-3.31	-5.15	-6.51	-7.82	-7.81	-5.86	-7.34	-7.83	-2.33	-1.10	-1.01	-4.86	-5.51
0.00	-4.06	-4.03	-4.51	-4.13	-4.17	-4.10	-4.37	-4.13	-4.50	-4.02	-4.15	-4.42	-4.41	-4.42	-4.17	-4.29	-4.20	-4.07	-4.55
1.00	-4.11	-4.43	-5.88	-6.92	-7.43	-7.05	-6.65	-5.01	-3.43	-1.56	-0.22	0.70	1.75	2.31	2.17	1.94	4.04	4.13	5.27
2.00	-4.11	-4.00	-6.15	-9.40	-12.43	-8.66	-4.57	-2.65	-0.61	-0.37	-1.21	-1.37	-1.50	-4.09	-7.83	-10.00	-11.78	-16.21	-15.17
3.00	-5.82	-5.29	-9.28	-16.81	-13.56	-2.91	-4.78	-7.90	-10.53	-10.46	-5.03	-2.12	0.06	0.93	0.60	-0.11	-0.92	-1.99	-2.57
4.00	-4.46	-4.04	-6.49	-12.22	-11.06	-10.54	-26.97	-16.77	-9.23	-6.63	-8.68	-12.12	-13.27	-11.50	-9.66	-8.96	-8.98	-9.81	-10.43
5.00	-9.09	-6.91	-5.97	-14.11	-21.92	-20.44	-18.83	-20.33	-18.65	-19.47	-18.65	-19.22	-22.57	-21.37	-15.33	-11.23	-9.56	-8.66	-8.39
6.00	-0.18	-2.50	-8.49	-18.05	-15.10	-16.80	-17.57	-22.20	-28.38	-25.58	-27.21	-24.84	-17.82	-13.19	-11.37	-10.04	-10.09	-10.86	-11.12
7.00	2.43	-2.74	-21.62	-20.66	-24.35	-18.62	-24.92	-27.29	-21.94	-30.59	-24.43	-28.36	-24.42	-17.84	-12.76	-10.46	-9.09	-9.41	-9.48
8.00	-0.31	-10.70	-16.38	-27.04	-23.43	-26.80	-23.13	-21.01	-28.14	-20.07	-27.43	-22.41	-26.60	-21.72	-26.31	-24.77	-25.57	-24.41	-25.37
9.00	-16.88	-19.48	-16.23	-21.55	-20.46	-24.49	-24.84	-27.93	-31.56	-25.36	-21.20	-22.31	-20.15	-21.01	-16.69	-17.20	-15.72	-13.78	-13.51
10.00	-3.78	-12.57	-15.76	-22.03	-23.82	-32.63	-30.73	-31.25	-29.39	-32.14	-23.64	-32.60	-33.89	-31.28	-23.69	-18.55	-17.48	-18.00	-17.35
20.00	-3.88	-22.54	-24.50	-26.40	-28.39	-35.98	-27.41	-34.77	-31.03	-34.35	-23.61	-29.12	-27.88	-27.13	-33.69	-36.07	-25.95	-14.55	-11.36
30.00	-12.47	-29.28	-32.70	-22.19	-30.31	-26.85	-28.72	-29.12	-25.69	-28.11	-27.13	-26.57	-25.97	-28.53	-29.24	-27.67	-25.34	-23.69	-19.03
40.00	-13.24	-31.05	-34.84	-31.75	-28.78	-27.42	-31.58	-32.96	-36.30	-29.30	-32.85	-31.76	-32.71	-34.77	-38.99	-32.26	-32.90	-30.84	-18.23
50.00	-8.40	-39.56	-29.34	-39.57	-29.80	-37.50	-32.91	-37.30	-37.48	-31.40	-40.88	-38.92	-39.82	-34.08	-38.55	-29.71	-34.91	-34.35	-24.70
60.00	-3.74	-35.36	-37.42	-35.35	-36.95	-36.17	-29.33	-40.75	-37.53	-46.79	-37.23	-37.78	-37.41	-33.31	-40.27	-35.78	-37.13	-34.80	-22.64
70.00	-1.66	-34.35	-40.18	-45.01	-41.06	-33.16	-42.40	-31.03	-46.04	-47.69	-49.85	-43.27	-40.44	-31.91	-37.43	-31.46	-30.01	-29.99	-29.63
80.00	-2.76	-49.65	-41.34	-35.47	-35.65	-39.84	-41.56	-41.81	-43.73	-46.79	-48.61	-34.20	-47.00	-42.45	-35.70	-35.59	-33.41	-34.08	-21.00
90.00	-4.49	-44.97	-39.17	-35.43	-36.30	-40.28	-47.12	-41.51	-43.66	-46.88	-45.95	-35.12	-45.62	-43.52	-37.73	-36.72	-37.67	-33.83	-23.20

# **30 GHz Raw Data**

# LHCP, Co-Pol, Azimuth

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-10.30	-20.42	-31.28	-38.12	-41.88	-37.11	-39.19	-39.48	-42.42	-30.24	-35.37	-30.01	-41.22	-36.72	-43.38	-21.10	-28.87	-32.57	-11.86
-80.00	-7.06	-25.78	-25.85	-30.60	-25.83	-43.39	-32.76	-40.13	-46.72	-35.93	-44.77	-30.50	-33.18	-28.11	-31.73	-19.95	-26.45	-20.53	-3.48
-70.00	-10.60	-23.28	-17.51	-26.60	-27.31	-32.01	-30.82	-32.57	-32.08	-21.13	-31.75	-40.91	-43.32	-23.73	-23.47	-26.94	-34.33	-21.90	7.38
-60.00	-10.68	-20.88	-26.69	-19.74	-27.48	-23.67	-27.31	-45.20	-21.05	-32.90	-33.28	-39.38	-42.12	-36.51	-38.16	-24.48	-27.85	-32.89	4.99
-50.00	-18.76	-23.05	-24.52	-22.01	-24.08	-27.76	-20.06	-44.84	-28.24	-24.89	-32.58	-26.30	-25.17	-34.09	-19.97	-24.25	-19.65	-23.26	-2.45
-40.00	-11.95	-28.96	-28.57	-28.56	-18.39	-27.15	-23.17	-15.24	-30.23	-47.23	-25.86	-33.12	-24.50	-14.38	-23.56	-38.95	-17.35	-20.35	-30.13
-30.00	-14.30	-20.23	-18.37	-29.17	-21.97	-26.93	-20.50	-30.42	-17.28	-27.23	-27.25	-37.55	-23.14	-24.09	-21.35	-16.75	-22.91	-25.80	4.25
-20.00	-9.41	-14.33	-18.62	-19.90	-18.03	-16.37	-28.98	-23.34	-27.56	-24.88	-28.45	-23.99	-22.66	-19.61	-17.24	-22.61	-16.76	-10.49	10.38
-10.00	-3.80	-5.62	-9.14	-11.96	-23.51	-19.54	-16.35	-16.38	-16.02	-20.65	-20.77	-18.25	-13.47	-13.98	-15.14	-3.70	-3.51	7.32	18.78
-9.00	1.32	0.71	-1.19	-5.29	-16.18	-31.56	-20.99	-13.05	-14.77	-13.30	-15.25	-23.77	-19.77	-53.20	-16.40	-5.67	0.50	12.05	20.86
-8.00	-3.36	-4.08	-7.27	-14.77	-7.52	-9.97	-26.14	-17.87	-11.55	-22.36	-8.45	-16.11	-21.70	-24.45	-25.47	-24.44	-6.15	8.13	15.52
-7.00	3.63	2.71	-0.09	-7.12	-8.43	-27.53	-23.85	-13.04	-5.94	-5.54	-15.45	-11.53	-7.46	-8.55	-5.67	-5.13	-11.80	10.15	13.60
-6.00	2.65	2.63	2.11	0.26	-8.20	-4.05	-4.65	-4.32	-6.36	-18.46	-17.87	-12.86	-7.93	1.08	-5.97	3.61	7.58	20.69	23.73
-5.00	6.70	5.30	3.81	1.57	1.46	1.14	-0.56	-2.28	-11.03	-7.14	-5.84	-4.51	-3.55	-4.81	1.24	-7.29	14.73	22.73	24.85
-4.00	3.58	3.21	1.19	-3.19	0.83	0.18	-0.48	2.55	-1.48	-10.09	-15.83	-8.00	-0.30	-1.38	-5.64	-5.67	7.81	13.31	14.76
-3.00	-4.09	-0.75	0.91	1.56	5.38	7.95	8.79	3.61	1.22	1.60	7.00	9.29	11.93	-0.28	10.78	19.47	23.35	25.50	26.28
-2.00	10.97	12.03	12.86	14.03	14.07	15.20	16.20	16.56	15.84	13.07	4.26	12.91	19.73	25.38	29.05	31.51	33.11	34.09	34.41
-1.00	23.91	24.09	24.50	25.23	26.10	27.24	28.41	29.71	30.89	32.10	33.24	34.31	35.19	36.03	36.71	37.24	37.61	37.87	37.95
0.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
1.00	23.82	24.04	24.30	25.10	26.03	27.29	28.46	29.75	31.00	32.14	33.29	34.33	35.21	36.02	36.73	37.28	37.67	37.88	37.94
2.00	8.63	10.01	11.80	13.65	13.69	15.58	14.91	15.50	15.11	12.58	1.76	12.26	19.65	25.32	29.05	31.57	33.17	34.08	34.40
3.00	6.52	6.78	6.52	6.15	4.56	6.44	9.34	9.35	6.47	-8.06	2.06	8.04	11.41	3.49	10.18	18.99	23.15	25.39	26.09
4.00	-4.23	-2.60	1.21	2.93	5.08	6.89	7.93	5.51	-1.97	-6.83	-4.84	-19.63	-2.03	-2.39	-0.08	2.76	10.48	14.11	15.86
5.00	5.39	4.60	3.00	-0.08	-2.43	-6.86	-9.41	-13.77	-10.34	-12.99	-15.71	-5.50	-9.28	-10.74	-0.71	-8.62	16.18	23.20	25.07
6.00	-1.85	-2.77	-6.37	-12.73	-1.99	0.52	-1.90	-15.31	-25.97	-20.26	-5.01	-7.26	-4.56	-3.84	-12.85	2.23	9.07	21.18	23.99
7.00	2.46	1.85	-0.08	-4.79	-38.52	-12.17	-15.05	-19.42	-9.55	-6.96	-22.40	-17.23	-2.73	-9.84	-7.68	-3.88	-10.68	10.88	14.94
8.00	-0.46	-0.75	-2.95	-7.15	-7.76	-8.00	-16.06	-11.99	-8.36	-19.62	-7.21	-16.03	-15.01	-15.36	-18.34	-11.32	-11.36	8.26	14.81
9.00	3.11	2.68	0.65	-3.70	-10.30	-14.27	-18.99	-15.37	-15.56	-11.36	-28.65	-23.02	-17.95	-15.00	-11.37	-9.17	-1.25	12.46	20.71
10.00	-5.07	-4.84	-6.73	-9.31	-11.08	-19.07	-40.90	-16.26	-20.74	-18.66	-29.22	-33.13	-14.83	-17.98	-4.65	-7.60	-2.38	7.81	18.68
20.00	-8.70	-12.09	-21.78	-27.36	-17.73	-28.06	-18.32	-27.57	-15.36	-23.58	-32.28	-33.39	-19.41	-29.35	-39.94	-21.53	-21.86	-8.79	11.18
30.00	-14.06	-18.14	-15.06	-20.55	-24.03	-16.76	-21.44	-22.46	-16.33	-47.13	-26.58	-21.79	-21.69	-18.26	-24.39	-19.20	-27.50	-18.63	3.77
40.00	-11.07	-27.91	-23.16	-20.73	-16.65	-23.08	-18.97	-22.80	-24.77	-19.40	-18.08	-15.35	-26.61	-25.30	-19.76	-24.78	-23.70	-21.71	-11.07
50.00	-25.96	-32.25	-34.32	-27.80	-28.58	-26.52	-23.66	-24.04	-26.84	-24.28	-44.47	-27.82	-27.02	-29.88	-21.10	-29.23	-16.65	-33.60	-3.45
60.00	-14.42	-28.27	-33.64	-31.85	-25.50	-20.21	-25.51	-25.54	-28.36	-27.05	-31.72	-29.73	-30.28	-36.36	-31.84	-19.39	-24.61	-19.90	6.32
70.00	-6.57	-20.77	-22.67	-29.72	-26.51	-29.62	-31.82	-28.92	-38.81	-24.27	-30.46	-28.57	-30.83	-24.88	-30.15	-25.62	-26.67	-26.54	8.18
80.00	-13.71	-25.06	-25.79	-30.27	-25.73	-39.41	-37.76	-45.64	-36.77	-32.61	-35.86	-35.40	-37.91	-24.84	-24.00	-27.95	-26.07	-25.59	-1.22
90.00	-15.98	-25.98	-40.42	-37.21	-41.78	-36.60	-35.64	-44.50	-43.74	-37.12	-31.66	-35.09	-38.06	-35.23	-31.40	-28.97	-27.22	-27.43	-7.17

## LHCP, Co-Pol, Elevation

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-11.86	-32.57	-28.87	-21.10	-43.38	-36.72	-41.22	-30.01	-35.37	-30.24	-42.42	-39.48	-39.19	-37.11	-41.88	-38.12	-31.28	-20.42	-10.30
-80.00	-3.48	-20.53	-26.45	-19.95	-31.73	-28.11	-33.18	-30.50	-44.77	-35.93	-46.72	-40.13	-32.76	-43.39	-25.83	-30.60	-25.85	-25.78	-7.06
-70.00	7.38	-21.90	-34.33	-26.94	-23.47	-23.73	-43.32	-40.91	-31.75	-21.13	-32.08	-32.57	-30.82	-32.01	-27.31	-26.60	-17.51	-23.28	-10.60
-60.00	4.99	-32.89	-27.85	-24.48	-38.16	-36.51	-42.12	-39.38	-33.28	-32.90	-21.05	-45.20	-27.31	-23.67	-27.48	-19.74	-26.69	-20.88	-10.68
-50.00	-2.45	-23.26	-19.65	-24.25	-19.97	-34.09	-25.17	-26.30	-32.58	-24.89	-28.24	-44.84	-20.06	-27.76	-24.08	-22.01	-24.52	-23.05	-18.76
-40.00	-30.13	-20.35	-17.35	-38.95	-23.56	-14.38	-24.50	-33.12	-25.86	-47.23	-30.23	-15.24	-23.17	-27.15	-18.39	-28.56	-28.57	-28.96	-11.95
-30.00	4.25	-25.80	-22.91	-16.75	-21.35	-24.09	-23.14	-37.55	-27.25	-27.23	-17.28	-30.42	-20.50	-26.93	-21.97	-29.17	-18.37	-20.23	-14.30
-20.00	10.38	-10.49	-16.76	-22.61	-17.24	-19.61	-22.66	-23.99	-28.45	-24.88	-27.56	-23.34	-28.98	-16.37	-18.03	-19.90	-18.62	-14.33	-9.41
-10.00	18.78	7.32	-3.51	-3.70	-15.14	-13.98	-13.47	-18.25	-20.77	-20.65	-16.02	-16.38	-16.35	-19.54	-23.51	-11.96	-9.14	-5.62	-3.80
-9.00	20.86	12.05	0.50	-5.67	-16.40	-53.20	-19.77	-23.77	-15.25	-13.30	-14.77	-13.05	-20.99	-31.56	-16.18	-5.29	-1.19	0.71	1.32
-8.00	15.52	8.13	-6.15	-24.44	-25.47	-24.45	-21.70	-16.11	-8.45	-22.36	-11.55	-17.87	-26.14	-9.97	-7.52	-14.77	-7.27	-4.08	-3.36
-7.00	13.60	10.15	-11.80	-5.13	-5.67	-8.55	-7.46	-11.53	-15.45	-5.54	-5.94	-13.04	-23.85	-27.53	-8.43	-7.12	-0.09	2.71	3.63
-6.00	23.73	20.69	7.58	3.61	-5.97	1.08	-7.93	-12.86	-17.87	-18.46	-6.36	-4.32	-4.65	-4.05	-8.20	0.26	2.11	2.63	2.65
-5.00	24.85	22.73	14.73	-7.29	1.24	-4.81	-3.55	-4.51	-5.84	-7.14	-11.03	-2.28	-0.56	1.14	1.46	1.57	3.81	5.30	6.70
-4.00	14.76	13.31	7.81	-5.67	-5.64	-1.38	-0.30	-8.00	-15.83	-10.09	-1.48	2.55	-0.48	0.18	0.83	-3.19	1.19	3.21	3.58
-3.00	26.28	25.50	23.35	19.47	10.78	-0.28	11.93	9.29	7.00	1.60	1.22	3.61	8.79	7.95	5.38	1.56	0.91	-0.75	-4.09
-2.00	34.41	34.09	33.11	31.51	29.05	25.38	19.73	12.91	4.26	13.07	15.84	16.56	16.20	15.20	14.07	14.03	12.86	12.03	10.97
-1.00	37.95	37.87	37.61	37.24	36.71	36.03	35.19	34.31	33.24	32.10	30.89	29.71	28.41	27.24	26.10	25.23	24.50	24.09	23.91
0.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
1.00	37.94	37.88	37.67	37.28	36.73	36.02	35.21	34.33	33.29	32.14	31.00	29.75	28.46	27.29	26.03	25.10	24.30	24.04	23.82
2.00	34.40	34.08	33.17	31.57	29.05	25.32	19.65	12.26	1.76	12.58	15.11	15.50	14.91	15.58	13.69	13.65	11.80	10.01	8.63
3.00	26.09	25.39	23.15	18.99	10.18	3.49	11.41	8.04	2.06	-8.06	6.47	9.35	9.34	6.44	4.56	6.15	6.52	6.78	6.52
4.00	15.86	14.11	10.48	2.76	-0.08	-2.39	-2.03	-19.63	-4.84	-6.83	-1.97	5.51	7.93	6.89	5.08	2.93	1.21	-2.60	-4.23
5.00	25.07	23.20	16.18	-8.62	-0.71	-10.74	-9.28	-5.50	-15.71	-12.99	-10.34	-13.77	-9.41	-6.86	-2.43	-0.08	3.00	4.60	5.39
6.00	23.99	21.18	9.07	2.23	-12.85	-3.84	-4.56	-7.26	-5.01	-20.26	-25.97	-15.31	-1.90	0.52	-1.99	-12.73	-6.37	-2.77	-1.85
7.00	14.94	10.88	-10.68	-3.88	-7.68	-9.84	-2.73	-17.23	-22.40	-6.96	-9.55	-19.42	-15.05	-12.17	-38.52	-4.79	-0.08	1.85	2.46
8.00	14.81	8.26	-11.36	-11.32	-18.34	-15.36	-15.01	-16.03	-7.21	-19.62	-8.36	-11.99	-16.06	-8.00	-7.76	-7.15	-2.95	-0.75	-0.46
9.00	20.71	12.46	-1.25	-9.17	-11.37	-15.00	-17.95	-23.02	-28.65	-11.36	-15.56	-15.37	-18.99	-14.27	-10.30	-3.70	0.65	2.68	3.11
10.00	18.68	7.81	-2.38	-7.60	-4.65	-17.98	-14.83	-33.13	-29.22	-18.66	-20.74	-16.26	-40.90	-19.07	-11.08	-9.31	-6.73	-4.84	-5.07
20.00	11.18	-8.79	-21.86	-21.53	-39.94	-29.35	-19.41	-33.39	-32.28	-23.58	-15.36	-27.57	-18.32	-28.06	-17.73	-27.36	-21.78	-12.09	-8.70
30.00	3.77	-18.63	-27.50	-19.20	-24.39	-18.26	-21.69	-21.79	-26.58	-47.13	-16.33	-22.46	-21.44	-16.76	-24.03	-20.55	-15.06	-18.14	-14.06
40.00	-11.07	-21.71	-23.70	-24.78	-19.76	-25.30	-26.61	-15.35	-18.08	-19.40	-24.77	-22.80	-18.97	-23.08	-16.65	-20.73	-23.16	-27.91	-11.07
50.00	-3.45	-33.60	-16.65	-29.23	-21.10	-29.88	-27.02	-27.82	-44.47	-24.28	-26.84	-24.04	-23.66	-26.52	-28.58	-27.80	-34.32	-32.25	-25.96
60.00	6.32	-19.90	-24.61	-19.39	-31.84	-36.36	-30.28	-29.73	-31.72	-27.05	-28.36	-25.54	-25.51	-20.21	-25.50	-31.85	-33.64	-28.27	-14.42
70.00	8.18	-26.54	-26.67	-25.62	-30.15	-24.88	-30.83	-28.57	-30.46	-24.27	-38.81	-28.92	-31.82	-29.62	-26.51	-29.72	-22.67	-20.77	-6.57
80.00	-1.22	-25.59	-26.07	-27.95	-24.00	-24.84	-37.91	-35.40	-35.86	-32.61	-36.77	-45.64	-37.76	-39.41	-25.73	-30.27	-25.79	-25.06	-13.71
90.00	-7.17	-27.43	-27.22	-28.97	-31.40	-35.23	-38.06	-35.09	-31.66	-37.12	-43.74	-44.50	-35.64	-36.60	-41.78	-37.21	-40.42	-25.98	-15.98

## LHCP, Cross-Pol, Azimuth

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-36.75	-38.21	-38.56	-36.13	-43.96	-45.71	-48.15	-46.26	-45.60	-42.15	-43.87	-41.47	-45.65	-36.38	-40.41	-33.61	-40.63	-40.47	-7.79
-80.00	-17.11	-27.24	-31.19	-31.67	-30.32	-45.77	-44.52	-46.45	-42.34	-39.66	-41.05	-39.89	-46.52	-35.42	-37.81	-32.89	-40.50	-32.71	-3.21
-70.00	-26.85	-29.38	-25.36	-31.04	-36.46	-42.41	-41.53	-35.27	-40.43	-27.70	-36.04	-34.64	-39.10	-33.68	-35.37	-40.07	-36.78	-32.32	0.91
-60.00	-33.27	-29.65	-39.07	-33.52	-34.80	-27.27	-40.58	-40.18	-31.05	-37.70	-30.15	-46.10	-37.24	-40.81	-37.56	-41.40	-35.54	-30.71	-2.51
-50.00	-27.20	-30.90	-35.34	-30.59	-37.78	-40.04	-26.97	-48.48	-36.27	-35.92	-38.04	-34.98	-27.01	-34.43	-31.12	-30.91	-36.62	-39.88	-5.14
-40.00	-20.06	-28.72	-35.55	-34.98	-35.75	-37.94	-28.23	-26.16	-33.96	-40.38	-46.78	-37.41	-35.69	-32.38	-40.16	-46.22	-36.68	-30.18	-3.45
-30.00	-18.71	-20.85	-33.78	-37.41	-35.84	-36.05	-31.39	-38.68	-31.17	-38.06	-42.40	-43.73	-29.08	-35.58	-37.56	-24.24	-32.74	-31.52	-4.67
-20.00	-20.83	-23.16	-36.01	-25.43	-27.30	-25.43	-33.40	-35.71	-26.88	-33.01	-45.60	-33.51	-25.44	-27.69	-27.65	-30.99	-31.21	-29.30	-6.85
-10.00	-16.19	-16.25	-19.68	-26.18	-33.08	-33.23	-33.75	-32.35	-27.86	-27.56	-30.30	-30.17	-25.06	-28.16	-15.73	-15.83	-22.40	-9.09	0.20
-9.00	-24.44	-23.32	-27.75	-32.72	-32.91	-29.70	-27.94	-34.41	-29.32	-25.39	-22.79	-27.94	-35.72	-25.03	-16.53	-18.50	-30.74	-13.38	-6.76
-8.00	-27.50	-23.17	-20.76	-18.88	-16.27	-17.52	-25.87	-28.98	-20.93	-19.09	-22.87	-28.89	-26.61	-33.89	-25.38	-26.48	-28.52	-5.73	-2.46
-7.00	-12.44	-11.86	-12.46	-15.03	-18.53	-20.53	-20.58	-19.92	-16.34	-20.79	-28.18	-24.21	-22.53	-21.94	-20.99	-16.43	-22.76	-4.31	1.58
-6.00	-8.06	-8.89	-9.49	-10.94	-13.73	-16.89	-21.65	-22.17	-25.31	-32.24	-31.35	-20.11	-15.01	-14.24	-13.45	-16.34	-18.17	-4.11	0.61
-5.00	-12.76	-14.00	-15.35	-16.69	-16.78	-14.55	-13.83	-17.23	-23.25	-18.97	-16.55	-15.03	-14.86	-14.35	-13.19	-21.22	-10.78	-5.85	-3.50
-4.00	-12.17	-12.66	-14.64	-16.34	-16.26	-13.68	-9.66	-8.23	-10.03	-15.28	-23.22	-18.26	-14.77	-14.96	-18.98	-13.22	-6.77	-6.70	-8.53
-3.00	-2.83	-2.92	-3.00	-3.23	-4.25	-5.09	-6.28	-7.85	-10.32	-11.74	-17.03	-17.71	-16.41	-14.34	-9.28	-7.90	-9.76	-17.32	-18.10
-2.00	-6.18	-5.76	-7.29	-7.84	-9.13	-11.04	-13.72	-15.47	-13.49	-10.56	-9.28	-5.94	-7.01	-6.38	-7.14	-7.44	-8.61	-10.34	-16.08
-1.00	-15.66	-13.33	-14.21	-12.44	-11.09	-10.09	-4.40	-5.37	-6.06	-6.00	-5.94	-5.46	-5.75	-5.43	-4.53	-3.94	-3.33	-3.77	-5.86
0.00	-3.64	-3.66	-3.81	-3.89	-4.05	-4.10	-4.03	-3.82	-3.64	-3.86	-3.74	-3.98	-4.05	-4.19	-4.09	-3.82	-3.91	-3.81	-3.56
1.00	2.50	-1.16	2.23	1.85	0.94	-0.08	-1.36	-4.61	-6.65	-8.81	-8.62	-11.35	-11.17	-10.79	-14.24	-9.20	-8.00	-5.45	-3.03
2.00	-0.91	-0.83	-1.15	-1.39	-2.11	-3.47	-6.03	-7.01	-6.04	-3.89	-3.95	-5.12	-7.92	-11.63	-21.26	-12.92	-12.21	-9.77	-7.00
3.00	-11.05	-10.36	-8.70	-7.82	-7.37	-6.12	-4.51	-3.85	-5.53	-8.11	-7.52	-8.70	-8.51	-7.09	-11.97	-12.73	-9.36	-9.38	-11.31
4.00	-5.71	-5.33	-5.33	-5.65	-7.00	-10.04	-14.48	-17.97	-17.15	-14.80	-11.22	-14.22	-14.09	-11.07	-13.06	-13.00	-8.31	-3.15	-4.08
5.00	-12.77	-12.93	-13.98	-16.47	-18.35	-16.56	-15.77	-17.22	-24.63	-25.02	-21.97	-23.04	-15.04	-12.69	-15.21	-16.91	-18.36	-5.71	-2.17
6.00	-19.82	-18.36	-17.25	-17.58	-16.43	-16.15	-19.82	-18.10	-18.61	-18.94	-16.89	-15.18	-19.73	-12.21	-12.99	-15.52	-19.21	-3.55	0.13
7.00	-14.93	-14.55	-13.85	-15.12	-18.94	-23.36	-27.89	-27.01	-22.09	-21.07	-17.13	-16.65	-17.28	-22.70	-16.25	-16.76	-23.48	-2.95	1.03
8.00	-19.98	-22.12	-22.37	-19.57	-17.35	-18.32	-22.68	-24.33	-26.83	-32.45	-23.88	-20.95	-20.13	-20.39	-30.82	-25.84	-20.43	-8.88	-2.07
9.00	-10.73	-12.23	-13.77	-15.94	-18.70	-21.88	-23.96	-26.00	-25.68	-28.89	-31.24	-28.38	-24.39	-19.94	-30.33	-18.46	-21.53	-11.76	-5.06
10.00	-12.80	-14.06	-16.39	-21.85	-28.36	-33.82	-31.73	-31.61	-30.12	-27.62	-31.30	-25.69	-21.73	-20.64	-25.14	-16.11	-19.95	-10.86	-0.16
20.00	-21.65	-27.22	-33.11	-32.38	-30.04	-37.24	-27.50	-33.96	-32.02	-30.13	-38.87	-30.91	-35.50	-31.41	-36.13	-29.03	-28.59	-20.18	-4.92
30.00	-22.77	-25.49	-24.57	-42.88	-34.82	-28.05	-27.45	-30.04	-24.34	-31.44	-31.32	-35.22	-31.29	-28.08	-31.24	-26.83	-32.48	-27.98	-8.04
40.00	-21.55	-28.63	-29.38	-31.07	-29.56	-35.29	-33.24	-30.84	-33.35	-32.44	-32.98	-34.50	-37.21	-26.44	-29.01	-28.92	-28.77	-30.73	-3.06
50.00	-25.01	-34.35	-34.00	-35.75	-37.50	-43.72	-37.86	-33.58	-34.16	-41.10	-38.55	-39.00	-33.95	-34.85	-24.82	-32.02	-25.26	-41.78	-4.67
60.00	-29.20	-33.88	-41.22	-33.49	-35.96	-31.62	-38.69	-34.48	-29.07	-39.15	-37.68	-40.74	-39.12	-37.71	-36.82	-30.60	-34.79	-28.40	-2.98
70.00	-20.41	-31.60	-23.15	-33.91	-39.08	-39.10	-38.85	-36.23	-36.34	-29.30	-47.24	-37.49	-37.31	-37.20	-43.20	-38.28	-40.08	-28.96	-0.93
80.00	-31.09	-33.63	-31.80	-42.01	-36.88	-43.21	-38.22	-45.04	-42.05	-41.67	-46.03	-44.69	-40.03	-40.73	-35.55	-29.34	-36.99	-29.93	-2.80
90.00	-23.17	-40.53	-46.30	-44.03	-40.83	-43.55	-44.40	-43.41	-45.84	-42.68	-45.64	-48.20	-45.22	-45.57	-42.79	-29.55	-37.99	-39.13	-7.93

## LHCP, Cross-Pol, Elevation

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-7.79	-40.47	-40.63	-33.61	-40.41	-36.38	-45.65	-41.47	-43.87	-42.15	-45.60	-46.26	-48.15	-45.71	-43.96	-36.13	-38.56	-38.21	-36.75
-80.00	-3.21	-32.71	-40.50	-32.89	-37.81	-35.42	-46.52	-39.89	-41.05	-39.66	-42.34	-46.45	-44.52	-45.77	-30.32	-31.67	-31.19	-27.24	-17.11
-70.00	0.91	-32.32	-36.78	-40.07	-35.37	-33.68	-39.10	-34.64	-36.04	-27.70	-40.43	-35.27	-41.53	-42.41	-36.46	-31.04	-25.36	-29.38	-26.85
-60.00	-2.51	-30.71	-35.54	-41.40	-37.56	-40.81	-37.24	-46.10	-30.15	-37.70	-31.05	-40.18	-40.58	-27.27	-34.80	-33.52	-39.07	-29.65	-33.27
-50.00	-5.14	-39.88	-36.62	-30.91	-31.12	-34.43	-27.01	-34.98	-38.04	-35.92	-36.27	-48.48	-26.97	-40.04	-37.78	-30.59	-35.34	-30.90	-27.20
-40.00	-3.45	-30.18	-36.68	-46.22	-40.16	-32.38	-35.69	-37.41	-46.78	-40.38	-33.96	-26.16	-28.23	-37.94	-35.75	-34.98	-35.55	-28.72	-20.06
-30.00	-4.67	-31.52	-32.74	-24.24	-37.56	-35.58	-29.08	-43.73	-42.40	-38.06	-31.17	-38.68	-31.39	-36.05	-35.84	-37.41	-33.78	-20.85	-18.71
-20.00	-6.85	-29.30	-31.21	-30.99	-27.65	-27.69	-25.44	-33.51	-45.60	-33.01	-26.88	-35.71	-33.40	-25.43	-27.30	-25.43	-36.01	-23.16	-20.83
-10.00	0.20	-9.09	-22.40	-15.83	-15.73	-28.16	-25.06	-30.17	-30.30	-27.56	-27.86	-32.35	-33.75	-33.23	-33.08	-26.18	-19.68	-16.25	-16.19
-9.00	-6.76	-13.38	-30.74	-18.50	-16.53	-25.03	-35.72	-27.94	-22.79	-25.39	-29.32	-34.41	-27.94	-29.70	-32.91	-32.72	-27.75	-23.32	-24.44
-8.00	-2.46	-5.73	-28.52	-26.48	-25.38	-33.89	-26.61	-28.89	-22.87	-19.09	-20.93	-28.98	-25.87	-17.52	-16.27	-18.88	-20.76	-23.17	-27.50
-7.00	1.58	-4.31	-22.76	-16.43	-20.99	-21.94	-22.53	-24.21	-28.18	-20.79	-16.34	-19.92	-20.58	-20.53	-18.53	-15.03	-12.46	-11.86	-12.44
-6.00	0.61	-4.11	-18.17	-16.34	-13.45	-14.24	-15.01	-20.11	-31.35	-32.24	-25.31	-22.17	-21.65	-16.89	-13.73	-10.94	-9.49	-8.89	-8.06
-5.00	-3.50	-5.85	-10.78	-21.22	-13.19	-14.35	-14.86	-15.03	-16.55	-18.97	-23.25	-17.23	-13.83	-14.55	-16.78	-16.69	-15.35	-14.00	-12.76
-4.00	-8.53	-6.70	-6.77	-13.22	-18.98	-14.96	-14.77	-18.26	-23.22	-15.28	-10.03	-8.23	-9.66	-13.68	-16.26	-16.34	-14.64	-12.66	-12.17
-3.00	-18.10	-17.32	-9.76	-7.90	-9.28	-14.34	-16.41	-17.71	-17.03	-11.74	-10.32	-7.85	-6.28	-5.09	-4.25	-3.23	-3.00	-2.92	-2.83
-2.00	-16.08	-10.34	-8.61	-7.44	-7.14	-6.38	-7.01	-5.94	-9.28	-10.56	-13.49	-15.47	-13.72	-11.04	-9.13	-7.84	-7.29	-5.76	-6.18
-1.00	-5.86	-3.77	-3.33	-3.94	-4.53	-5.43	-5.75	-5.46	-5.94	-6.00	-6.06	-5.37	-4.40	-10.09	-11.09	-12.44	-14.21	-13.33	-15.66
0.00	-3.56	-3.81	-3.91	-3.82	-4.09	-4.19	-4.05	-3.98	-3.74	-3.86	-3.64	-3.82	-4.03	-4.10	-4.05	-3.89	-3.81	-3.66	-3.64
1.00	-3.03	-5.45	-8.00	-9.20	-14.24	-10.79	-11.17	-11.35	-8.62	-8.81	-6.65	-4.61	-1.36	-0.08	0.94	1.85	2.23	-1.16	2.50
2.00	-7.00	-9.77	-12.21	-12.92	-21.26	-11.63	-7.92	-5.12	-3.95	-3.89	-6.04	-7.01	-6.03	-3.47	-2.11	-1.39	-1.15	-0.83	-0.91
3.00	-11.31	-9.38	-9.36	-12.73	-11.97	-7.09	-8.51	-8.70	-7.52	-8.11	-5.53	-3.85	-4.51	-6.12	-7.37	-7.82	-8.70	-10.36	-11.05
4.00	-4.08	-3.15	-8.31	-13.00	-13.06	-11.07	-14.09	-14.22	-11.22	-14.80	-17.15	-17.97	-14.48	-10.04	-7.00	-5.65	-5.33	-5.33	-5.71
5.00	-2.17	-5.71	-18.36	-16.91	-15.21	-12.69	-15.04	-23.04	-21.97	-25.02	-24.63	-17.22	-15.77	-16.56	-18.35	-16.47	-13.98	-12.93	-12.77
6.00	0.13	-3.55	-19.21	-15.52	-12.99	-12.21	-19.73	-15.18	-16.89	-18.94	-18.61	-18.10	-19.82	-16.15	-16.43	-17.58	-17.25	-18.36	-19.82
7.00	1.03	-2.95	-23.48	-16.76	-16.25	-22.70	-17.28	-16.65	-17.13	-21.07	-22.09	-27.01	-27.89	-23.36	-18.94	-15.12	-13.85	-14.55	-14.93
8.00	-2.07	-8.88	-20.43	-25.84	-30.82	-20.39	-20.13	-20.95	-23.88	-32.45	-26.83	-24.33	-22.68	-18.32	-17.35	-19.57	-22.37	-22.12	-19.98
9.00	-5.06	-11.76	-21.53	-18.46	-30.33	-19.94	-24.39	-28.38	-31.24	-28.89	-25.68	-26.00	-23.96	-21.88	-18.70	-15.94	-13.77	-12.23	-10.73
10.00	-0.16	-10.86	-19.95	-16.11	-25.14	-20.64	-21.73	-25.69	-31.30	-27.62	-30.12	-31.61	-31.73	-33.82	-28.36	-21.85	-16.39	-14.06	-12.80
20.00	-4.92	-20.18	-28.59	-29.03	-36.13	-31.41	-35.50	-30.91	-38.87	-30.13	-32.02	-33.96	-27.50	-37.24	-30.04	-32.38	-33.11	-27.22	-21.65
30.00	-8.04	-27.98	-32.48	-26.83	-31.24	-28.08	-31.29	-35.22	-31.32	-31.44	-24.34	-30.04	-27.45	-28.05	-34.82	-42.88	-24.57	-25.49	-22.77
40.00	-3.06	-30.73	-28.77	-28.92	-29.01	-26.44	-37.21	-34.50	-32.98	-32.44	-33.35	-30.84	-33.24	-35.29	-29.56	-31.07	-29.38	-28.63	-21.55
50.00	-4.67	-41.78	-25.26	-32.02	-24.82	-34.85	-33.95	-39.00	-38.55	-41.10	-34.16	-33.58	-37.86	-43.72	-37.50	-35.75	-34.00	-34.35	-25.01
60.00	-2.98	-28.40	-34.79	-30.60	-36.82	-37.71	-39.12	-40.74	-37.68	-39.15	-29.07	-34.48	-38.69	-31.62	-35.96	-33.49	-41.22	-33.88	-29.20
70.00	-0.93	-28.96	-40.08	-38.28	-43.20	-37.20	-37.31	-37.49	-47.24	-29.30	-36.34	-36.23	-38.85	-39.10	-39.08	-33.91	-23.15	-31.60	-20.41
80.00	-2.80	-29.93	-36.99	-29.34	-35.55	-40.73	-40.03	-44.69	-46.03	-41.67	-42.05	-45.04	-38.22	-43.21	-36.88	-42.01	-31.80	-33.63	-31.09
90.00	-7.93	-39.13	-37.99	-29.55	-42.79	-45.57	-45.22	-48.20	-45.64	-42.68	-45.84	-43.41	-44.40	-43.55	-40.83	-44.03	-46.30	-40.53	-23.17

## RHCP, Co-Pol, Azimuth

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-13.94	-25.64	-34.60	-35.91	-34.07	-41.08	-34.35	-38.64	-33.82	-31.91	-45.13	-36.25	-40.78	-37.98	-34.16	-29.69	-33.50	-22.48	-3.09
-80.00	-15.11	-39.41	-23.94	-31.72	-24.88	-30.79	-30.46	-31.52	-35.31	-33.92	-38.93	-38.52	-38.07	-52.58	-31.50	-23.38	-30.44	-18.90	2.22
-70.00	-22.24	-28.35	-20.73	-23.58	-31.69	-35.85	-26.61	-35.49	-26.60	-29.15	-32.96	-27.62	-40.37	-21.97	-25.01	-31.77	-26.66	-17.43	8.96
-60.00	-10.01	-20.82	-30.20	-30.60	-27.75	-20.92	-27.95	-29.22	-29.10	-28.93	-34.48	-24.89	-34.16	-39.28	-35.06	-21.84	-30.35	-26.10	5.95
-50.00	-24.29	-30.91	-26.71	-26.91	-28.55	-30.18	-20.19	-31.16	-30.18	-30.07	-31.96	-22.62	-20.64	-29.72	-23.40	-22.16	-20.22	-31.80	2.63
-40.00	-12.89	-17.43	-21.05	-21.42	-15.32	-24.70	-30.95	-17.62	-36.21	-32.57	-25.70	-22.85	-28.97	-27.78	-23.77	-24.93	-22.13	-18.59	-3.54
-30.00	-12.70	-18.44	-13.89	-19.80	-20.99	-18.21	-25.45	-26.39	-29.98	-24.68	-23.37	-34.11	-22.19	-25.41	-19.89	-26.66	-26.47	-16.70	5.98
-20.00	-8.13	-14.84	-29.61	-33.13	-22.17	-40.86	-23.92	-25.06	-17.72	-33.59	-20.28	-15.03	-26.18	-26.24	-18.57	-16.14	-23.92	-15.32	9.57
-10.00	-7.77	-8.19	-9.50	-13.62	-18.21	-15.72	-13.98	-19.82	-22.88	-23.10	-23.00	-13.69	-10.76	-19.39	-13.71	-10.50	-1.06	8.38	19.08
-9.00	0.17	-0.59	-2.94	-8.56	-13.48	-20.45	-17.62	-9.25	-16.35	-15.75	-21.20	-32.29	-32.51	-25.21	-19.13	-14.89	-0.51	12.15	20.77
-8.00	-5.58	-5.03	-8.80	-17.19	-8.22	-9.94	-27.48	-21.62	-12.08	-14.01	-7.46	-12.48	-21.89	-20.66	-25.07	-14.78	-13.65	6.42	14.80
-7.00	4.01	3.27	1.73	-2.49	-9.12	-18.03	-13.05	-11.83	-5.99	-5.81	-13.67	-13.45	-8.25	-10.63	-7.36	-1.44	-9.84	12.37	14.54
-6.00	3.16	2.33	0.33	-3.55	-5.46	-2.35	-4.19	-9.41	-7.85	-16.37	-23.19	-10.95	-8.07	-1.60	-8.65	4.34	10.00	21.51	23.86
-5.00	7.15	6.73	4.83	2.85	0.20	-0.99	-0.87	-4.29	-8.58	-6.44	-5.64	-3.59	-4.39	-5.59	-0.94	-12.56	16.40	23.21	24.76
-4.00	4.23	3.55	2.67	0.27	1.77	1.88	1.41	-2.36	-0.76	-8.37	-13.24	-6.89	-0.88	1.82	-0.73	-2.54	9.99	13.71	13.67
-3.00	0.55	1.03	1.40	0.08	4.35	7.75	8.91	8.26	1.43	1.65	6.78	8.75	11.91	4.53	9.98	19.39	23.39	25.72	26.53
-2.00	9.48	9.85	10.77	11.96	12.65	14.52	15.68	16.28	15.54	12.48	4.07	13.82	19.84	25.42	29.05	31.55	33.25	34.16	34.48
-1.00	23.73	23.86	24.17	25.07	26.05	27.15	28.43	29.83	30.95	32.26	33.39	34.38	35.23	36.05	36.72	37.25	37.68	37.88	37.96
0.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
1.00	23.47	23.89	24.27	25.05	25.88	27.05	28.44	29.70	31.10	32.33	33.43	34.41	35.28	36.08	36.73	37.29	37.65	37.89	37.96
2.00	6.49	8.22	9.77	11.84	13.51	15.08	15.25	15.73	14.99	11.60	-1.91	13.50	19.85	25.44	29.01	31.55	33.21	34.17	34.49
3.00	7.50	6.94	5.92	4.20	3.17	4.09	5.02	4.66	0.17	-15.79	3.29	7.00	12.12	5.08	9.75	19.09	23.55	25.68	26.36
4.00	-12.03	-10.05	-1.49	0.65	3.30	5.72	7.89	6.89	3.12	-4.58	-9.02	-23.31	-0.30	2.51	-0.23	1.89	7.27	13.88	14.85
5.00	6.86	5.64	3.54	0.59	-3.60	-4.36	-10.79	-16.33	-6.32	-4.78	-7.02	-4.42	-5.37	-5.56	-2.16	-14.63	15.32	23.18	24.90
6.00	-0.91	-1.73	-3.76	-9.55	-7.39	-4.68	-3.73	-13.62	-13.99	-11.19	-20.25	-8.52	-9.63	-0.52	-26.87	2.28	8.84	21.32	24.00
7.00	3.03	2.67	1.26	-4.14	-14.50	-15.86	-14.05	-11.31	-20.44	-12.51	-8.08	-11.77	-3.24	-17.60	-5.57	-6.45	-6.25	11.09	15.60
8.00	0.55	-0.35	-2.80	-9.02	-19.17	-15.72	-12.28	-9.49	-7.26	-21.80	-12.00	-10.46	-16.91	-16.83	-19.44	-19.48	-5.22	9.33	14.22
9.00	2.81	2.81	1.24	-3.28	-12.13	-18.73	-14.81	-9.35	-8.46	-10.46	-16.34	-16.83	-16.85	-12.20	-9.21	-10.53	0.24	13.85	20.70
10.00	-3.19	-2.67	-3.97	-7.78	-11.51	-25.92	-16.56	-19.06	-14.67	-13.11	-20.91	-18.67	-17.50	-22.95	-4.21	-6.62	-3.53	10.37	18.95
20.00	-6.77	-12.46	-21.43	-26.87	-25.14	-22.45	-22.51	-26.02	-26.36	-29.74	-21.58	-27.89	-23.01	-33.76	-26.84	-26.47	-19.59	-12.11	11.17
30.00	-20.89	-17.06	-19.04	-23.06	-21.27	-21.66	-16.02	-17.47	-18.81	-19.08	-18.01	-19.27	-27.50	-24.40	-32.07	-16.88	-16.62	-20.18	6.01
40.00	-17.39	-24.03	-22.75	-20.43	-17.96	-39.04	-21.37	-33.32	-21.59	-17.74	-17.71	-14.43	-18.68	-12.05	-22.09	-37.96	-16.39	-15.22	-3.00
50.00	-11.05	-33.87	-23.79	-22.64	-24.89	-24.92	-17.51	-27.72	-25.63	-44.62	-41.54	-30.68	-22.10	-27.72	-30.13	-28.07	-20.86	-25.03	2.16
60.00	-12.20	-46.55	-40.05	-20.40	-38.01	-28.52	-30.74	-28.03	-24.73	-25.35	-34.69	-38.36	-29.43	-30.51	-31.16	-26.96	-38.22	-26.11	6.13
70.00	-10.44	-22.76	-21.16	-23.09	-33.80	-34.20	-37.81	-29.04	-39.34	-21.13	-38.99	-37.05	-35.35	-22.85	-28.09	-36.68	-21.49	-21.81	8.76
80.00	-16.51	-30.39	-29.99	-30.21	-24.34	-35.63	-46.01	-38.59	-38.63	-33.71	-33.81	-33.92	-36.85	-35.99	-34.28	-25.79	-30.36	-20.38	1.96
90.00	-14.63	-26.21	-31.56	-41.48	-37.21	-34.85	-40.63	-42.29	-39.17	-38.94	-38.16	-51.56	-34.44	-39.31	-44.31	-31.44	-45.20	-28.15	-4.25



## RHCP, Co-Pol, Elevation

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-3.09	-22.48	-33.50	-29.69	-34.16	-37.98	-40.78	-36.25	-45.13	-31.91	-33.82	-38.64	-34.35	-41.08	-34.07	-35.91	-34.60	-25.64	-13.94
-80.00	2.22	-18.90	-30.44	-23.38	-31.50	-52.58	-38.07	-38.52	-38.93	-33.92	-35.31	-31.52	-30.46	-30.79	-24.88	-31.72	-23.94	-39.41	-15.11
-70.00	8.96	-17.43	-26.66	-31.77	-25.01	-21.97	-40.37	-27.62	-32.96	-29.15	-26.60	-35.49	-26.61	-35.85	-31.69	-23.58	-20.73	-28.35	-22.24
-60.00	5.95	-26.10	-30.35	-21.84	-35.06	-39.28	-34.16	-24.89	-34.48	-28.93	-29.10	-29.22	-27.95	-20.92	-27.75	-30.60	-30.20	-20.82	-10.01
-50.00	2.63	-31.80	-20.22	-22.16	-23.40	-29.72	-20.64	-22.62	-31.96	-30.07	-30.18	-31.16	-20.19	-30.18	-28.55	-26.91	-26.71	-30.91	-24.29
-40.00	-3.54	-18.59	-22.13	-24.93	-23.77	-27.78	-28.97	-22.85	-25.70	-32.57	-36.21	-17.62	-30.95	-24.70	-15.32	-21.42	-21.05	-17.43	-12.89
-30.00	5.98	-16.70	-26.47	-26.66	-19.89	-25.41	-22.19	-34.11	-23.37	-24.68	-29.98	-26.39	-25.45	-18.21	-20.99	-19.80	-13.89	-18.44	-12.70
-20.00	9.57	-15.32	-23.92	-16.14	-18.57	-26.24	-26.18	-15.03	-20.28	-33.59	-17.72	-25.06	-23.92	-40.86	-22.17	-33.13	-29.61	-14.84	-8.13
-10.00	19.08	8.38	-1.06	-10.50	-13.71	-19.39	-10.76	-13.69	-23.00	-23.10	-22.88	-19.82	-13.98	-15.72	-18.21	-13.62	-9.50	-8.19	-7.77
-9.00	20.77	12.15	-0.51	-14.89	-19.13	-25.21	-32.51	-32.29	-21.20	-15.75	-16.35	-9.25	-17.62	-20.45	-13.48	-8.56	-2.94	-0.59	0.17
-8.00	14.80	6.42	-13.65	-14.78	-25.07	-20.66	-21.89	-12.48	-7.46	-14.01	-12.08	-21.62	-27.48	-9.94	-8.22	-17.19	-8.80	-5.03	-5.58
-7.00	14.54	12.37	-9.84	-1.44	-7.36	-10.63	-8.25	-13.45	-13.67	-5.81	-5.99	-11.83	-13.05	-18.03	-9.12	-2.49	1.73	3.27	4.01
-6.00	23.86	21.51	10.00	4.34	-8.65	-1.60	-8.07	-10.95	-23.19	-16.37	-7.85	-9.41	-4.19	-2.35	-5.46	-3.55	0.33	2.33	3.16
-5.00	24.76	23.21	16.40	-12.56	-0.94	-5.59	-4.39	-3.59	-5.64	-6.44	-8.58	-4.29	-0.87	-0.99	0.20	2.85	4.83	6.73	7.15
-4.00	13.67	13.71	9.99	-2.54	-0.73	1.82	-0.88	-6.89	-13.24	-8.37	-0.76	-2.36	1.41	1.88	1.77	0.27	2.67	3.55	4.23
-3.00	26.53	25.72	23.39	19.39	9.98	4.53	11.91	8.75	6.78	1.65	1.43	8.26	8.91	7.75	4.35	0.08	1.40	1.03	0.55
-2.00	34.48	34.16	33.25	31.55	29.05	25.42	19.84	13.82	4.07	12.48	15.54	16.28	15.68	14.52	12.65	11.96	10.77	9.85	9.48
-1.00	37.96	37.88	37.68	37.25	36.72	36.05	35.23	34.38	33.39	32.26	30.95	29.83	28.43	27.15	26.05	25.07	24.17	23.86	23.73
0.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00	39.00
1.00	37.96	37.89	37.65	37.29	36.73	36.08	35.28	34.41	33.43	32.33	31.10	29.70	28.44	27.05	25.88	25.05	24.27	23.89	23.47
2.00	34.49	34.17	33.21	31.55	29.01	25.44	19.85	13.50	-1.91	11.60	14.99	15.73	15.25	15.08	13.51	11.84	9.77	8.22	6.49
3.00	26.36	25.68	23.55	19.09	9.75	5.08	12.12	7.00	3.29	-15.79	0.17	4.66	5.02	4.09	3.17	4.20	5.92	6.94	7.50
4.00	14.85	13.88	7.27	1.89	-0.23	2.51	-0.30	-23.31	-9.02	-4.58	3.12	6.89	7.89	5.72	3.30	0.65	-1.49	-10.05	-12.03
5.00	24.90	23.18	15.32	-14.63	-2.16	-5.56	-5.37	-4.42	-7.02	-4.78	-6.32	-16.33	-10.79	-4.36	-3.60	0.59	3.54	5.64	6.86
6.00	24.00	21.32	8.84	2.28	-26.87	-0.52	-9.63	-8.52	-20.25	-11.19	-13.99	-13.62	-3.73	-4.68	-7.39	-9.55	-3.76	-1.73	-0.91
7.00	15.60	11.09	-6.25	-6.45	-5.57	-17.60	-3.24	-11.77	-8.08	-12.51	-20.44	-11.31	-14.05	-15.86	-14.50	-4.14	1.26	2.67	3.03
8.00	14.22	9.33	-5.22	-19.48	-19.44	-16.83	-16.91	-10.46	-12.00	-21.80	-7.26	-9.49	-12.28	-15.72	-19.17	-9.02	-2.80	-0.35	0.55
9.00	20.70	13.85	0.24	-10.53	-9.21	-12.20	-16.85	-16.83	-16.34	-10.46	-8.46	-9.35	-14.81	-18.73	-12.13	-3.28	1.24	2.81	2.81
10.00	18.95	10.37	-3.53	-6.62	-4.21	-22.95	-17.50	-18.67	-20.91	-13.11	-14.67	-19.06	-16.56	-25.92	-11.51	-7.78	-3.97	-2.67	-3.19
20.00	11.17	-12.11	-19.59	-26.47	-26.84	-33.76	-23.01	-27.89	-21.58	-29.74	-26.36	-26.02	-22.51	-22.45	-25.14	-26.87	-21.43	-12.46	-6.77
30.00	6.01	-20.18	-16.62	-16.88	-32.07	-24.40	-27.50	-19.27	-18.01	-19.08	-18.81	-17.47	-16.02	-21.66	-21.27	-23.06	-19.04	-17.06	-20.89
40.00	-3.00	-15.22	-16.39	-37.96	-22.09	-12.05	-18.68	-14.43	-17.71	-17.74	-21.59	-33.32	-21.37	-39.04	-17.96	-20.43	-22.75	-24.03	-17.39
50.00	2.16	-25.03	-20.86	-28.07	-30.13	-27.72	-22.10	-30.68	-41.54	-44.62	-25.63	-27.72	-17.51	-24.92	-24.89	-22.64	-23.79	-33.87	-11.05
60.00	6.13	-26.11	-38.22	-26.96	-31.16	-30.51	-29.43	-38.36	-34.69	-25.35	-24.73	-28.03	-30.74	-28.52	-38.01	-20.40	-40.05	-46.55	-12.20
70.00	8.76	-21.81	-21.49	-36.68	-28.09	-22.85	-35.35	-37.05	-38.99	-21.13	-39.34	-29.04	-37.81	-34.20	-33.80	-23.09	-21.16	-22.76	-10.44
80.00	1.96	-20.38	-30.36	-25.79	-34.28	-35.99	-36.85	-33.92	-33.81	-33.71	-38.63	-38.59	-46.01	-35.63	-24.34	-30.21	-29.99	-30.39	-16.51
90.00	-4.25	-28.15	-45.20	-31.44	-44.31	-39.31	-34.44	-51.56	-38.16	-38.94	-39.17	-42.29	-40.63	-34.85	-37.21	-41.48	-31.56	-26.21	-14.63



## RHCP, Cross-Pol, Azimuth

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-23.53	-37.39	-35.91	-39.21	-36.98	-40.93	-39.43	-49.53	-41.52	-41.36	-47.32	-40.72	-38.24	-46.74	-38.80	-31.34	-41.50	-43.80	-10.51
-80.00	-14.10	-29.91	-33.58	-45.99	-29.11	-39.13	-40.24	-39.81	-42.48	-43.18	-37.90	-45.02	-32.79	-41.73	-41.07	-29.92	-38.53	-34.17	-5.42
-70.00	-24.35	-30.01	-29.64	-34.33	-39.37	-31.22	-40.13	-34.68	-36.75	-31.59	-37.71	-31.27	-37.82	-31.92	-41.16	-31.71	-33.55	-29.61	-2.99
-60.00	-29.57	-32.96	-39.53	-37.87	-33.02	-31.62	-35.48	-40.71	-41.26	-37.32	-39.75	-36.47	-44.52	-36.01	-36.45	-33.12	-40.66	-31.61	-5.05
-50.00	-28.57	-30.38	-37.26	-30.48	-36.99	-33.32	-32.44	-36.19	-39.33	-36.35	-39.38	-34.19	-40.01	-35.05	-31.55	-31.62	-30.46	-34.59	-8.96
-40.00	-24.77	-25.82	-32.67	-28.27	-26.81	-38.29	-37.95	-30.97	-39.76	-41.79	-39.14	-38.34	-30.78	-28.24	-32.64	-31.47	-35.48	-32.83	-6.01
-30.00	-25.92	-31.49	-27.94	-34.44	-28.57	-37.72	-36.64	-36.83	-38.25	-33.54	-33.53	-39.65	-27.25	-36.57	-38.40	-27.59	-45.22	-35.86	-8.66
-20.00	-24.10	-32.00	-32.14	-28.14	-30.52	-32.79	-30.38	-33.50	-26.83	-32.21	-31.23	-34.37	-38.57	-34.23	-31.19	-29.56	-26.09	-23.65	-5.94
-10.00	-12.26	-13.90	-18.92	-29.02	-27.09	-25.35	-25.81	-29.03	-34.81	-34.81	-28.98	-23.74	-25.33	-24.04	-19.31	-20.62	-22.13	-7.18	0.54
-9.00	-20.61	-20.78	-21.51	-24.55	-38.00	-28.30	-28.31	-36.06	-35.83	-22.83	-22.39	-27.94	-28.72	-26.57	-20.52	-23.07	-25.49	-10.87	-3.81
-8.00	-21.38	-20.07	-20.24	-20.54	-20.90	-22.36	-25.89	-24.80	-18.02	-17.97	-20.15	-25.60	-27.35	-24.94	-27.51	-25.68	-26.97	-4.69	-1.74
-7.00	-12.14	-13.04	-14.44	-15.96	-19.63	-21.33	-21.55	-18.46	-15.74	-19.68	-24.80	-24.29	-18.27	-17.85	-21.23	-15.87	-20.84	-3.15	1.85
-6.00	-10.09	-10.91	-11.89	-13.75	-15.98	-18.99	-23.20	-23.65	-23.10	-28.55	-28.21	-17.83	-14.04	-16.16	-14.11	-14.77	-12.81	-0.88	1.98
-5.00	-13.48	-13.32	-13.77	-14.34	-15.12	-15.09	-15.62	-17.68	-20.48	-18.49	-16.49	-13.90	-18.88	-17.13	-14.92	-23.84	-7.19	-0.92	0.38
-4.00	-7.34	-7.94	-8.74	-9.64	-10.38	-9.32	-7.94	-7.85	-8.92	-12.14	-17.05	-18.16	-18.16	-18.67	-17.65	-12.55	-4.24	-1.47	-1.85
-3.00	-2.20	-2.11	-2.19	-2.40	-2.44	-2.81	-3.62	-4.95	-7.24	-9.08	-13.37	-19.20	-18.38	-13.52	-6.79	-5.79	-5.34	-5.82	-3.98
-2.00	-3.13	-2.98	-3.41	-3.77	-4.82	-6.66	-8.99	-11.00	-10.63	-9.44	-8.46	-5.88	-6.22	-5.53	-3.55	-2.56	-1.38	0.05	0.90
-1.00	-7.56	-7.61	-6.18	-5.75	-6.65	-4.50	-2.09	-2.52	-2.10	-1.37	-0.31	0.32	1.27	1.95	2.54	3.05	3.76	4.19	4.27
0.00	4.81	4.85	4.85	4.89	4.89	4.94	4.93	4.97	4.96	4.98	5.05	5.00	5.06	5.04	5.06	5.05	5.09	5.03	5.05
1.00	-5.30	0.27	-0.92	-1.35	-0.91	-1.31	-1.40	-2.22	-1.84	-1.07	-0.11	0.78	1.41	2.15	2.75	3.29	3.63	3.79	3.95
2.00	-2.02	-1.94	-2.09	-2.55	-2.52	-3.54	-5.45	-7.32	-7.17	-7.87	-6.33	-6.78	-8.72	-7.53	-4.77	-2.44	-1.04	-0.25	-0.18
3.00	-11.60	-12.83	-13.67	-13.20	-11.46	-8.56	-6.25	-5.68	-8.13	-10.68	-7.11	-9.04	-13.03	-9.01	-13.52	-12.76	-9.28	-6.02	-7.36
4.00	-7.77	-7.28	-6.64	-6.19	-5.96	-7.07	-10.60	-16.30	-20.40	-15.00	-12.40	-13.56	-10.20	-9.43	-16.45	-16.33	-7.85	-2.18	0.94
5.00	-10.53	-11.16	-12.26	-13.26	-15.67	-18.66	-16.13	-14.93	-18.48	-26.60	-27.43	-19.49	-12.98	-10.66	-15.77	-18.83	-10.74	-1.24	1.65
6.00	-17.69	-18.29	-17.84	-16.90	-17.10	-18.19	-20.05	-17.19	-16.96	-18.81	-18.88	-18.08	-18.44	-13.43	-12.10	-15.15	-14.19	-1.49	2.19
7.00	-16.84	-16.92	-15.73	-16.31	-20.06	-23.79	-27.16	-22.63	-23.21	-23.06	-17.95	-16.61	-16.66	-24.01	-18.23	-18.23	-22.40	-2.64	1.36
8.00	-14.13	-15.07	-18.29	-19.77	-23.12	-24.56	-30.69	-26.71	-21.55	-28.74	-24.54	-20.57	-21.39	-23.41	-25.18	-25.45	-21.72	-9.12	-1.55
9.00	-11.89	-12.50	-14.46	-17.27	-21.30	-26.52	-26.17	-28.38	-25.10	-27.37	-34.98	-28.41	-25.12	-25.80	-21.96	-16.90	-23.90	-12.07	-3.17
10.00	-17.04	-18.01	-18.01	-19.03	-22.91	-26.26	-30.25	-29.33	-30.13	-34.43	-30.94	-34.00	-26.48	-26.24	-24.71	-14.81	-20.33	-11.67	-0.10
20.00	-19.05	-22.80	-28.24	-34.50	-33.25	-31.17	-26.54	-32.88	-22.79	-35.33	-36.68	-33.99	-31.94	-34.75	-31.35	-27.24	-24.71	-23.92	-6.29
30.00	-24.72	-26.61	-30.25	-34.71	-31.53	-36.04	-32.05	-34.97	-27.96	-30.55	-33.25	-38.19	-30.10	-29.17	-39.06	-24.51	-28.96	-32.13	-12.01
40.00	-24.33	-26.52	-33.09	-30.32	-30.27	-30.05	-31.44	-30.48	-34.15	-27.97	-31.42	-36.94	-32.10	-26.48	-27.37	-30.16	-29.82	-25.41	-5.67
50.00	-20.94	-36.13	-31.83	-29.70	-31.77	-32.10	-36.51	-30.57	-40.54	-34.98	-41.42	-34.72	-34.22	-38.11	-28.53	-37.09	-29.79	-38.85	-8.62
60.00	-31.85	-28.87	-35.89	-30.37	-37.05	-39.58	-43.34	-35.08	-31.11	-44.20	-40.22	-37.75	-32.53	-37.99	-40.35	-30.18	-38.94	-31.26	-6.37
70.00	-28.10	-25.78	-28.03	-32.60	-36.20	-38.13	-41.67	-42.27	-38.23	-31.82	-38.87	-36.40	-46.78	-30.46	-33.78	-42.78	-32.96	-28.87	-5.62
80.00	-25.28	-35.74	-32.65	-36.32	-34.30	-38.19	-38.02	-45.33	-43.30	-41.75	-43.41	-38.36	-53.32	-40.49	-37.79	-27.03	-36.00	-31.38	-4.64
90.00	-29.46	-34.23	-40.92	-43.83	-41.84	-47.43	-40.47	-53.75	-46.84	-46.49	-44.94	-42.81	-47.40	-42.12	-40.60	-26.69	-38.41	-37.66	-9.51

## RHCP, Cross-Pol, Elevation

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-90.00	-10.51	-43.80	-41.50	-31.34	-38.80	-46.74	-38.24	-40.72	-47.32	-41.36	-41.52	-49.53	-39.43	-40.93	-36.98	-39.21	-35.91	-37.39	-23.53
-80.00	-5.42	-34.17	-38.53	-29.92	-41.07	-41.73	-32.79	-45.02	-37.90	-43.18	-42.48	-39.81	-40.24	-39.13	-29.11	-45.99	-33.58	-29.91	-14.10
-70.00	-2.99	-29.61	-33.55	-31.71	-41.16	-31.92	-37.82	-31.27	-37.71	-31.59	-36.75	-34.68	-40.13	-31.22	-39.37	-34.33	-29.64	-30.01	-24.35
-60.00	-5.05	-31.61	-40.66	-33.12	-36.45	-36.01	-44.52	-36.47	-39.75	-37.32	-41.26	-40.71	-35.48	-31.62	-33.02	-37.87	-39.53	-32.96	-29.57
-50.00	-8.96	-34.59	-30.46	-31.62	-31.55	-35.05	-40.01	-34.19	-39.38	-36.35	-39.33	-36.19	-32.44	-33.32	-36.99	-30.48	-37.26	-30.38	-28.57
-40.00	-6.01	-32.83	-35.48	-31.47	-32.64	-28.24	-30.78	-38.34	-39.14	-41.79	-39.76	-30.97	-37.95	-38.29	-26.81	-28.27	-32.67	-25.82	-24.77
-30.00	-8.66	-35.86	-45.22	-27.59	-38.40	-36.57	-27.25	-39.65	-33.53	-33.54	-38.25	-36.83	-36.64	-37.72	-28.57	-34.44	-27.94	-31.49	-25.92
-20.00	-5.94	-23.65	-26.09	-29.56	-31.19	-34.23	-38.57	-34.37	-31.23	-32.21	-26.83	-33.50	-30.38	-32.79	-30.52	-28.14	-32.14	-32.00	-24.10
-10.00	0.54	-7.18	-22.13	-20.62	-19.31	-24.04	-25.33	-23.74	-28.98	-34.81	-34.81	-29.03	-25.81	-25.35	-27.09	-29.02	-18.92	-13.90	-12.26
-9.00	-3.81	-10.87	-25.49	-23.07	-20.52	-26.57	-28.72	-27.94	-22.39	-22.83	-35.83	-36.06	-28.31	-28.30	-38.00	-24.55	-21.51	-20.78	-20.61
-8.00	-1.74	-4.69	-26.97	-25.68	-27.51	-24.94	-27.35	-25.60	-20.15	-17.97	-18.02	-24.80	-25.89	-22.36	-20.90	-20.54	-20.24	-20.07	-21.38
-7.00	1.85	-3.15	-20.84	-15.87	-21.23	-17.85	-18.27	-24.29	-24.80	-19.68	-15.74	-18.46	-21.55	-21.33	-19.63	-15.96	-14.44	-13.04	-12.14
-6.00	1.98	-0.88	-12.81	-14.77	-14.11	-16.16	-14.04	-17.83	-28.21	-28.55	-23.10	-23.65	-23.20	-18.99	-15.98	-13.75	-11.89	-10.91	-10.09
-5.00	0.38	-0.92	-7.19	-23.84	-14.92	-17.13	-18.88	-13.90	-16.49	-18.49	-20.48	-17.68	-15.62	-15.09	-15.12	-14.34	-13.77	-13.32	-13.48
-4.00	-1.85	-1.47	-4.24	-12.55	-17.65	-18.67	-18.16	-18.16	-17.05	-12.14	-8.92	-7.85	-7.94	-9.32	-10.38	-9.64	-8.74	-7.94	-7.34
-3.00	-3.98	-5.82	-5.34	-5.79	-6.79	-13.52	-18.38	-19.20	-13.37	-9.08	-7.24	-4.95	-3.62	-2.81	-2.44	-2.40	-2.19	-2.11	-2.20
-2.00	0.90	0.05	-1.38	-2.56	-3.55	-5.53	-6.22	-5.88	-8.46	-9.44	-10.63	-11.00	-8.99	-6.66	-4.82	-3.77	-3.41	-2.98	-3.13
-1.00	4.27	4.19	3.76	3.05	2.54	1.95	1.27	0.32	-0.31	-1.37	-2.10	-2.52	-2.09	-4.50	-6.65	-5.75	-6.18	-7.61	-7.56
0.00	5.05	5.03	5.09	5.05	5.06	5.04	5.06	5.00	5.05	4.98	4.96	4.97	4.93	4.94	4.89	4.89	4.85	4.85	4.81
1.00	3.95	3.79	3.63	3.29	2.75	2.15	1.41	0.78	-0.11	-1.07	-1.84	-2.22	-1.40	-1.31	-0.91	-1.35	-0.92	0.27	-5.30
2.00	-0.18	-0.25	-1.04	-2.44	-4.77	-7.53	-8.72	-6.78	-6.33	-7.87	-7.17	-7.32	-5.45	-3.54	-2.52	-2.55	-2.09	-1.94	-2.02
3.00	-7.36	-6.02	-9.28	-12.76	-13.52	-9.01	-13.03	-9.04	-7.11	-10.68	-8.13	-5.68	-6.25	-8.56	-11.46	-13.20	-13.67	-12.83	-11.60
4.00	0.94	-2.18	-7.85	-16.33	-16.45	-9.43	-10.20	-13.56	-12.40	-15.00	-20.40	-16.30	-10.60	-7.07	-5.96	-6.19	-6.64	-7.28	-7.77
5.00	1.65	-1.24	-10.74	-18.83	-15.77	-10.66	-12.98	-19.49	-27.43	-26.60	-18.48	-14.93	-16.13	-18.66	-15.67	-13.26	-12.26	-11.16	-10.53
6.00	2.19	-1.49	-14.19	-15.15	-12.10	-13.43	-18.44	-18.08	-18.88	-18.81	-16.96	-17.19	-20.05	-18.19	-17.10	-16.90	-17.84	-18.29	-17.69
7.00	1.36	-2.64	-22.40	-18.23	-18.23	-24.01	-16.66	-16.61	-17.95	-23.06	-23.21	-22.63	-27.16	-23.79	-20.06	-16.31	-15.73	-16.92	-16.84
8.00	-1.55	-9.12	-21.72	-25.45	-25.18	-23.41	-21.39	-20.57	-24.54	-28.74	-21.55	-26.71	-30.69	-24.56	-23.12	-19.77	-18.29	-15.07	-14.13
9.00	-3.17	-12.07	-23.90	-16.90	-21.96	-25.80	-25.12	-28.41	-34.98	-27.37	-25.10	-28.38	-26.17	-26.52	-21.30	-17.27	-14.46	-12.50	-11.89
10.00	-0.10	-11.67	-20.33	-14.81	-24.71	-26.24	-26.48	-34.00	-30.94	-34.43	-30.13	-29.33	-30.25	-26.26	-22.91	-19.03	-18.01	-18.01	-17.04
20.00	-6.29	-23.92	-24.71	-27.24	-31.35	-34.75	-31.94	-33.99	-36.68	-35.33	-22.79	-32.88	-26.54	-31.17	-33.25	-34.50	-28.24	-22.80	-19.05
30.00	-12.01	-32.13	-28.96	-24.51	-39.06	-29.17	-30.10	-38.19	-33.25	-30.55	-27.96	-34.97	-32.05	-36.04	-31.53	-34.71	-30.25	-26.61	-24.72
40.00	-5.67	-25.41	-29.82	-30.16	-27.37	-26.48	-32.10	-36.94	-31.42	-27.97	-34.15	-30.48	-31.44	-30.05	-30.27	-30.32	-33.09	-26.52	-24.33
50.00	-8.62	-38.85	-29.79	-37.09	-28.53	-38.11	-34.22	-34.72	-41.42	-34.98	-40.54	-30.57	-36.51	-32.10	-31.77	-29.70	-31.83	-36.13	-20.94
60.00	-6.37	-31.26	-38.94	-30.18	-40.35	-37.99	-32.53	-37.75	-40.22	-44.20	-31.11	-35.08	-43.34	-39.58	-37.05	-30.37	-35.89	-28.87	-31.85
70.00	-5.62	-28.87	-32.96	-42.78	-33.78	-30.46	-46.78	-36.40	-38.87	-31.82	-38.23	-42.27	-41.67	-38.13	-36.20	-32.60	-28.03	-25.78	-28.10
80.00	-4.64	-31.38	-36.00	-27.03	-37.79	-40.49	-53.32	-38.36	-43.41	-41.75	-43.30	-45.33	-38.02	-38.19	-34.30	-36.32	-32.65	-35.74	-25.28
90.00	-9.51	-37.66	-38.41	-26.69	-40.60	-42.12	-47.40	-42.81	-44.94	-46.49	-46.84	-53.75	-40.47	-47.43	-41.84	-43.83	-40.92	-34.23	-29.46