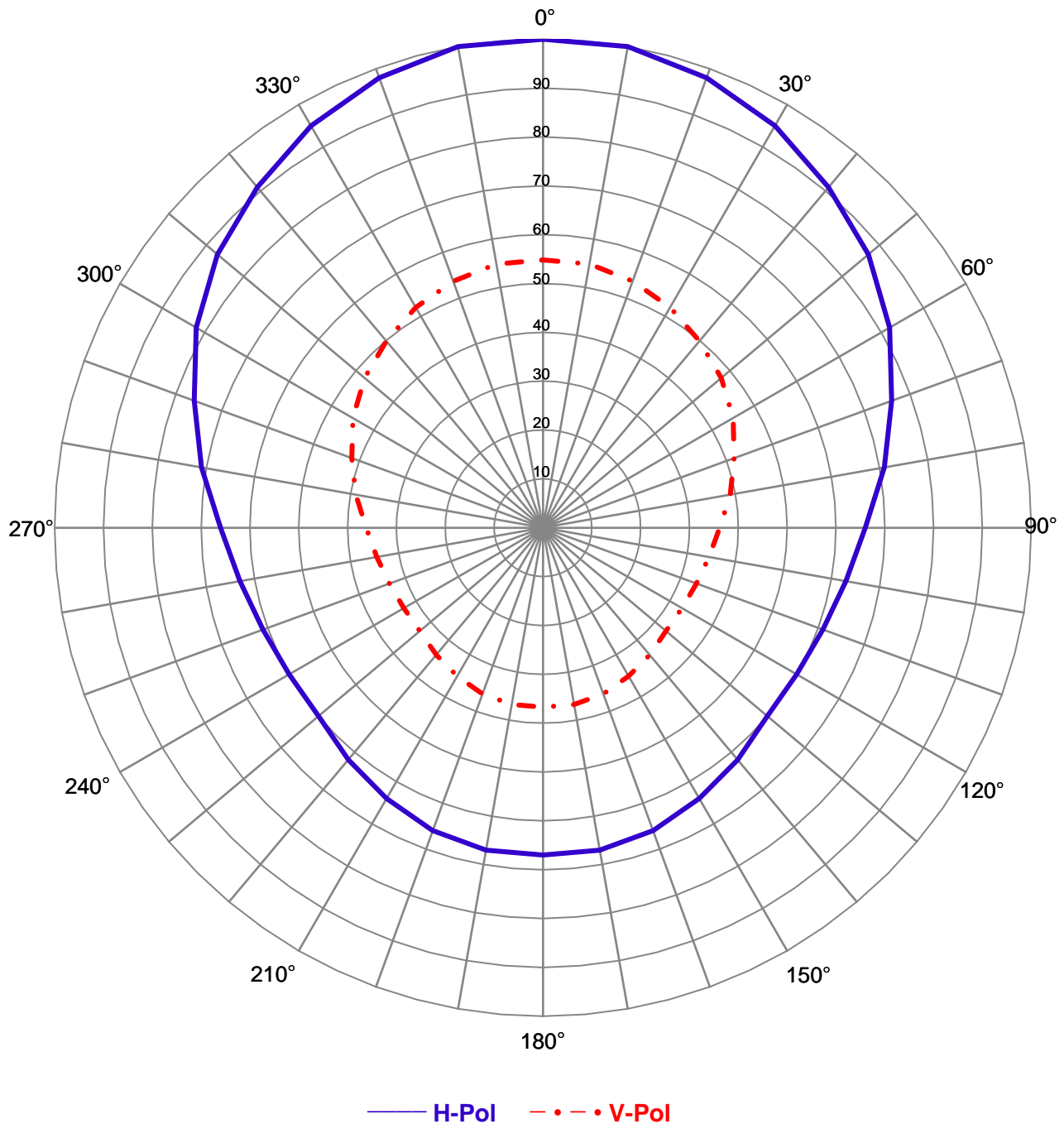




## Relative Field Azimuth Plane Pattern



Pattern Type:	Relative Field	Type:	8-Bay UHF Slot
Antenna Model:	PSILP8OI-34-EP	Pattern:	OI
Polarization:	Elliptical	Channel:	34
Gain (h-pol):	12.16 (10.85 dB)	Reference:	WIVM-LD
Gain (v-pol):	3.65 (5.63 dB)	Date:	8/23/2023



**PROPAGATION SYSTEMS INC.**

Relative Field Tabulation

Antenna Model: PSILP8OI-34-EP

Peak Gain (h-pol): 12.16 (10.85 dBd)

Angle	Relative Field	Power Gain	Gain dB
0	1.000	12.16	10.85
10	1.000	12.16	10.85
20	0.980	11.68	10.67
30	0.950	10.97	10.40
40	0.910	10.07	10.03
50	0.870	9.20	9.64
60	0.820	8.18	9.13
70	0.760	7.02	8.47
80	0.710	6.13	7.87
90	0.660	5.30	7.24
100	0.630	4.83	6.84
110	0.610	4.52	6.56
120	0.600	4.38	6.41
130	0.600	4.38	6.41
140	0.620	4.67	6.70
150	0.640	4.98	6.97
160	0.660	5.30	7.24
170	0.670	5.46	7.37
180	0.670	5.46	7.37
190	0.670	5.46	7.37
200	0.660	5.30	7.24
210	0.640	4.98	6.97
220	0.620	4.67	6.70
230	0.600	4.38	6.41
240	0.600	4.38	6.41
250	0.610	4.52	6.56
260	0.630	4.83	6.84
270	0.660	5.30	7.24
280	0.710	6.13	7.87
290	0.760	7.02	8.47
300	0.820	8.18	9.13
310	0.870	9.20	9.64
320	0.910	10.07	10.03
330	0.950	10.97	10.40
340	0.980	11.68	10.67
350	1.000	12.16	10.85



**PROPAGATION SYSTEMS INC.**

Relative Field Tabulation

Antenna Model: PSILP8OI-34-EP

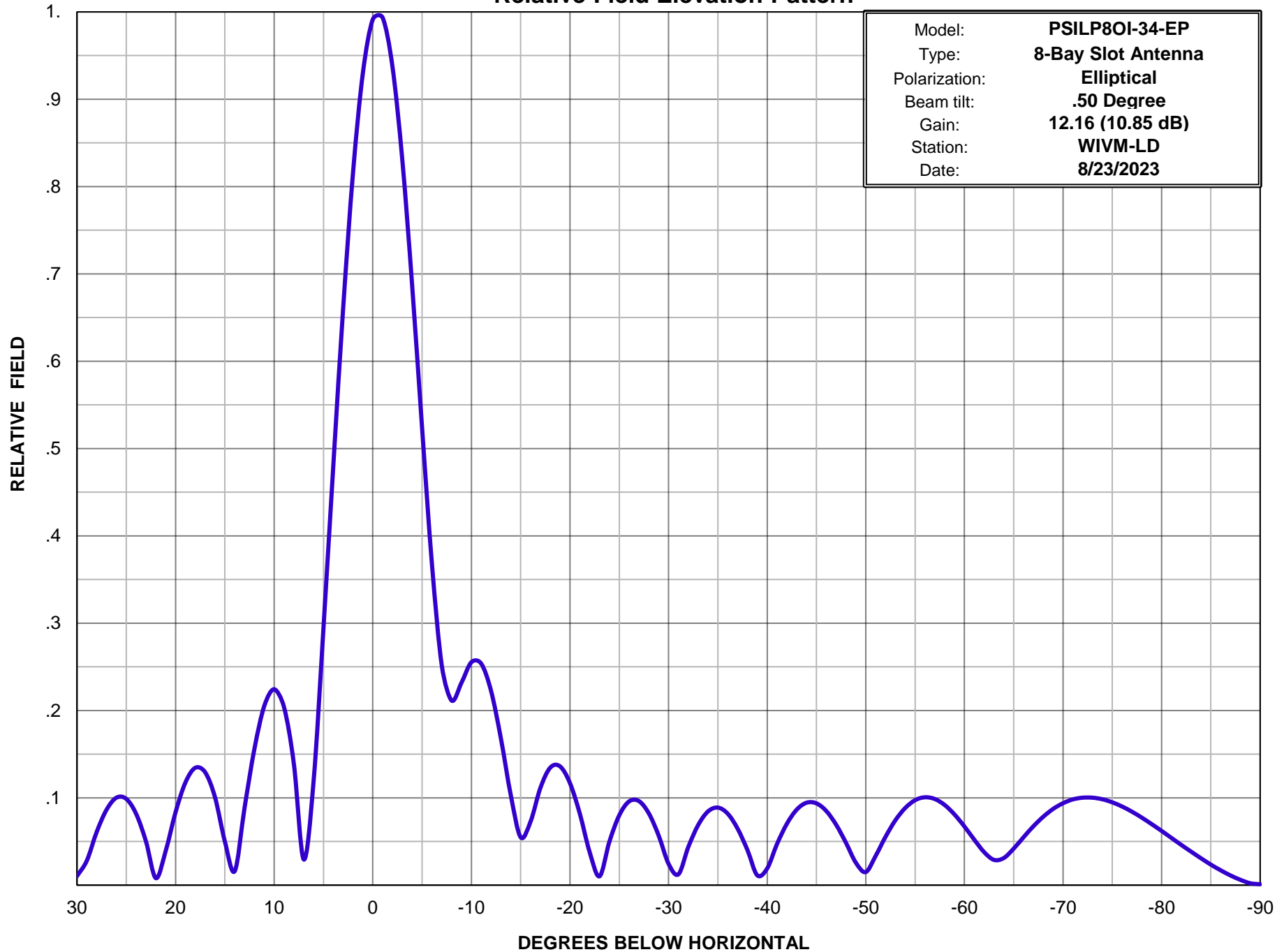
Peak Gain (v-pol): 3.65 (5.63 dBd)

Angle	Relative Field	Power Gain	Gain dB
0	0.548	3.65	5.63
10	0.548	3.65	5.63
20	0.537	3.51	5.45
30	0.521	3.30	5.18
40	0.499	3.03	4.81
50	0.477	2.77	4.42
60	0.450	2.46	3.90
70	0.417	2.11	3.24
80	0.389	1.84	2.65
90	0.362	1.59	2.02
100	0.345	1.45	1.61
110	0.334	1.36	1.33
120	0.329	1.32	1.19
130	0.329	1.32	1.19
140	0.340	1.40	1.48
150	0.351	1.50	1.75
160	0.362	1.59	2.02
170	0.367	1.64	2.15
180	0.367	1.64	2.15
190	0.367	1.64	2.15
200	0.362	1.59	2.02
210	0.351	1.50	1.75
220	0.340	1.40	1.48
230	0.329	1.32	1.19
240	0.329	1.32	1.19
250	0.334	1.36	1.33
260	0.345	1.45	1.61
270	0.362	1.59	2.02
280	0.389	1.84	2.65
290	0.417	2.11	3.24
300	0.450	2.46	3.90
310	0.477	2.77	4.42
320	0.499	3.03	4.81
330	0.521	3.30	5.18
340	0.537	3.51	5.45
350	0.548	3.65	5.63



**Propagation Systems, Inc.**

### Relative Field Elevation Pattern





# Propagation Systems Inc.

Elevation Pattern Tabulation

Antenna: PSILP8OI-34-EP

Gain: 12.16 (10.85 dB)

Beam tilt: -.50 Degree

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-90.0	0.001	-60.000	-50.0	0.015	-36.478	-10.0	0.255	-11.859
-89.0	0.002	-53.468	-49.0	0.026	-31.833	-9.0	0.232	-12.697
-88.0	0.006	-44.350	-48.0	0.048	-26.315	-8.0	0.211	-13.499
-87.0	0.011	-39.124	-47.0	0.069	-23.212	-7.0	0.252	-11.989
-86.0	0.017	-35.407	-46.0	0.085	-21.427	-6.0	0.368	-8.686
-85.0	0.023	-32.584	-45.0	0.094	-20.571	-5.0	0.524	-5.619
-84.0	0.031	-30.241	-44.0	0.094	-20.501	-4.0	0.686	-3.275
-83.0	0.038	-28.328	-43.0	0.087	-21.258	-3.0	0.830	-1.618
-82.0	0.046	-26.733	-42.0	0.070	-23.061	-2.0	0.937	-0.564
-81.0	0.054	-25.338	-41.0	0.047	-26.536	-1.0	0.993	-0.057
-80.0	0.062	-24.135	-40.0	0.019	-34.383	0.0	0.991	-0.075
-79.0	0.070	-23.117	-39.0	0.011	-39.006	1.0	0.930	-0.628
-78.0	0.077	-22.239	-38.0	0.040	-27.926	2.0	0.816	-1.762
-77.0	0.084	-21.505	-37.0	0.065	-23.782	3.0	0.661	-3.593
-76.0	0.090	-20.915	-36.0	0.082	-21.743	4.0	0.481	-6.356
-75.0	0.095	-20.459	-35.0	0.089	-21.033	5.0	0.294	-10.621
-74.0	0.098	-20.146	-34.0	0.084	-21.474	6.0	0.119	-18.471
-73.0	0.100	-19.987	-33.0	0.069	-23.250	7.0	0.029	-30.635
-72.0	0.100	-19.987	-32.0	0.044	-27.203	8.0	0.139	-17.162
-71.0	0.098	-20.159	-31.0	0.012	-38.115	9.0	0.204	-13.816
-70.0	0.094	-20.557	-30.0	0.024	-32.254	10.0	0.224	-12.980
-69.0	0.087	-21.182	-29.0	0.057	-24.933	11.0	0.205	-13.752
-68.0	0.078	-22.121	-28.0	0.082	-21.711	12.0	0.156	-16.126
-67.0	0.067	-23.424	-27.0	0.096	-20.335	13.0	0.089	-21.033
-66.0	0.055	-25.217	-26.0	0.096	-20.363	14.0	0.016	-35.885
-65.0	0.042	-27.573	-25.0	0.080	-21.938	15.0	0.050	-26.021
-64.0	0.031	-30.156	-24.0	0.050	-26.047	16.0	0.101	-19.948
-63.0	0.029	-30.770	-23.0	0.010	-39.869	17.0	0.129	-17.772
-62.0	0.038	-28.432	-22.0	0.038	-28.467	18.0	0.134	-17.432
-61.0	0.052	-25.660	-21.0	0.082	-21.743	19.0	0.118	-18.594
-60.0	0.067	-23.443	-20.0	0.117	-18.650	20.0	0.083	-21.568
-59.0	0.081	-21.840	-19.0	0.136	-17.335	21.0	0.039	-28.125
-58.0	0.092	-20.741	-18.0	0.135	-17.423	22.0	0.008	-41.905
-57.0	0.099	-20.119	-17.0	0.111	-19.065	23.0	0.050	-26.021
-56.0	0.101	-19.948	-16.0	0.073	-22.766	24.0	0.082	-21.759
-55.0	0.097	-20.240	-15.0	0.055	-25.217	25.0	0.099	-20.106
-54.0	0.088	-21.078	-14.0	0.103	-19.753	26.0	0.100	-19.987
-53.0	0.074	-22.587	-13.0	0.168	-15.508	27.0	0.086	-21.273
-52.0	0.055	-25.145	-12.0	0.222	-13.062	28.0	0.061	-24.306
-51.0	0.033	-29.503	-11.0	0.254	-11.916	29.0	0.028	-31.047