

Calculated Relative Field
Azimuth Plane Pattern
Low Power UHF Slot
Antenna Type: PSILP
Pattern Type: BH
Directivity: 3.0 (4.7 dB)
Date: 7/1/97
Rev. 0

PROPAGATION SYSTEMS, INC.
PO BOX 113
EBENSBURG, PA. 15931



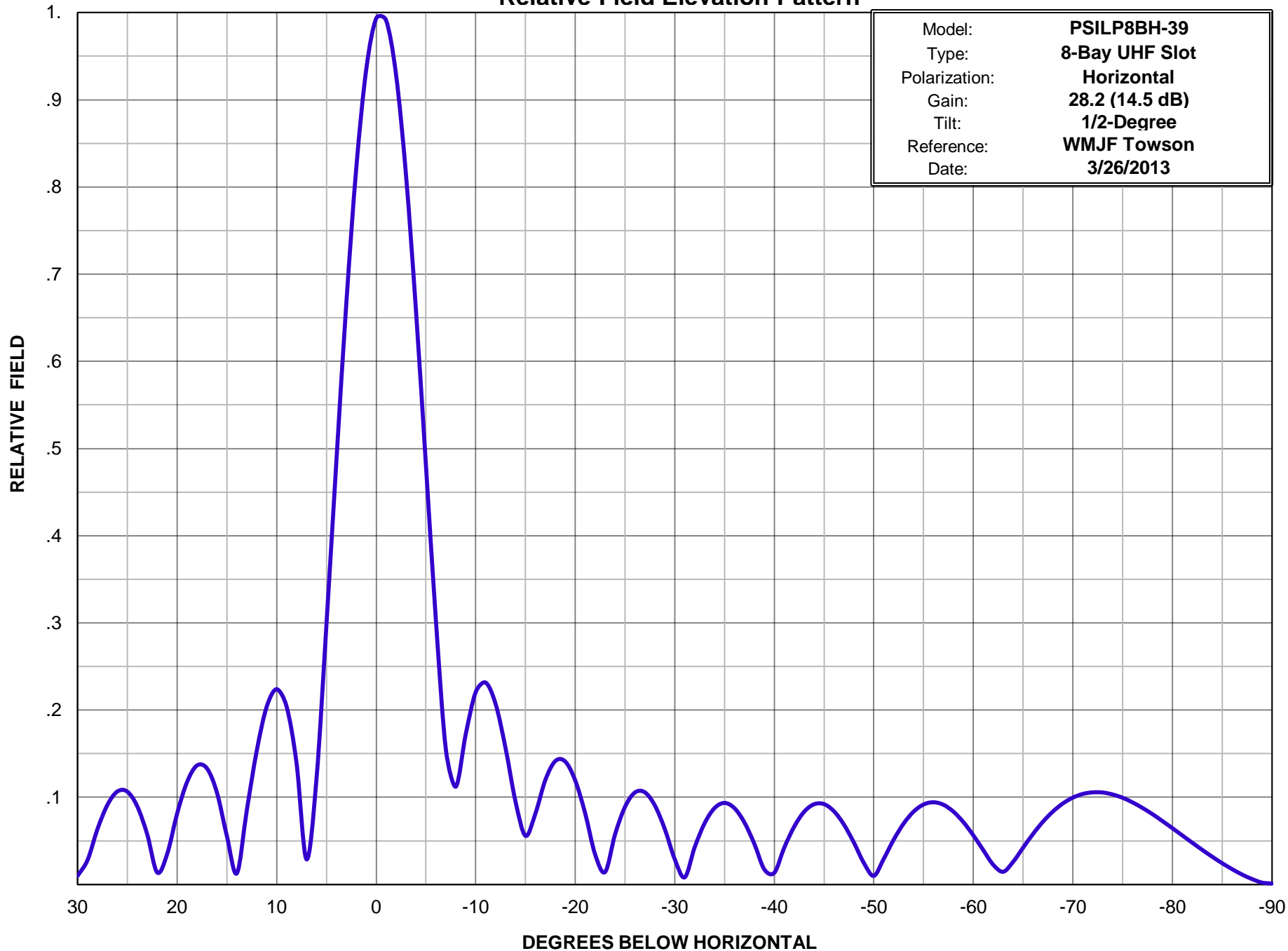
LPTV ANTENNA

Antenna Pattern: BH

Angle	Field	8-BAY		16-BAY		24-BAY	
		Gain	dB	Gain	dB	Gain	dB
0	0.360	3.65	5.63	7.31	8.64	10.30	10.13
10	0.390	4.29	6.32	8.58	9.33	12.09	10.82
20	0.390	4.29	6.32	8.58	9.33	12.09	10.82
30	0.380	4.07	6.10	8.14	9.11	11.48	10.60
40	0.360	3.65	5.63	7.31	8.64	10.30	10.13
50	0.430	5.21	7.17	10.43	10.18	14.70	11.67
60	0.620	10.84	10.35	21.68	13.36	30.56	14.85
70	0.830	19.43	12.88	38.85	15.89	54.77	17.39
80	0.960	25.99	14.15	51.98	17.16	73.27	18.65
90	1.000	28.20	14.50	56.40	17.51	79.50	19.00
100	0.960	25.99	14.15	51.98	17.16	73.27	18.65
110	0.800	18.05	12.56	36.10	15.57	50.88	17.07
120	0.600	10.15	10.07	20.30	13.08	28.62	14.57
130	0.400	4.51	6.54	9.02	9.55	12.72	11.04
140	0.290	2.37	3.75	4.74	6.76	6.69	8.25
150	0.230	1.49	1.74	2.98	4.75	4.21	6.24
160	0.200	1.13	0.52	2.26	3.53	3.18	5.02
170	0.200	1.13	0.52	2.26	3.53	3.18	5.02
180	0.210	1.24	0.95	2.49	3.96	3.51	5.45
190	0.200	1.13	0.52	2.26	3.53	3.18	5.02
200	0.200	1.13	0.52	2.26	3.53	3.18	5.02
210	0.230	1.49	1.74	2.98	4.75	4.21	6.24
220	0.290	2.37	3.75	4.74	6.76	6.69	8.25
230	0.400	4.51	6.54	9.02	9.55	12.72	11.04
240	0.600	10.15	10.07	20.30	13.08	28.62	14.57
250	0.800	18.05	12.56	36.10	15.57	50.88	17.07
260	0.960	25.99	14.15	51.98	17.16	73.27	18.65
270	1.000	28.20	14.50	56.40	17.51	79.50	19.00
280	0.960	25.99	14.15	51.98	17.16	73.27	18.65
290	0.830	19.43	12.88	38.85	15.89	54.77	17.39
300	0.620	10.84	10.35	21.68	13.36	30.56	14.85
310	0.430	5.21	7.17	10.43	10.18	14.70	11.67
320	0.360	3.65	5.63	7.31	8.64	10.30	10.13
330	0.380	4.07	6.10	8.14	9.11	11.48	10.60
340	0.390	4.29	6.32	8.58	9.33	12.09	10.82
350	0.390	4.29	6.32	8.58	9.33	12.09	10.82



Relative Field Elevation Pattern





Propagation Systems Inc.

Elevation Pattern Tabulation

Antenna: PSILP8BH-39

Ref. WMJF Towson

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-90.0	0.001	-60.000	-50.0	0.010	-40.133	-10.0	0.221	-13.128
-89.0	0.002	-53.468	-49.0	0.025	-32.147	-9.0	0.172	-15.268
-88.0	0.006	-44.135	-48.0	0.048	-26.370	-8.0	0.112	-19.006
-87.0	0.011	-38.890	-47.0	0.069	-23.269	-7.0	0.155	-16.202
-86.0	0.018	-35.102	-46.0	0.084	-21.521	-6.0	0.303	-10.375
-85.0	0.024	-32.254	-45.0	0.092	-20.713	-5.0	0.481	-6.364
-84.0	0.032	-29.946	-44.0	0.092	-20.727	-4.0	0.658	-3.637
-83.0	0.040	-28.025	-43.0	0.083	-21.584	-3.0	0.813	-1.798
-82.0	0.048	-26.397	-42.0	0.066	-23.581	-2.0	0.928	-0.645
-81.0	0.056	-25.003	-41.0	0.042	-27.510	-1.0	0.991	-0.078
-80.0	0.065	-23.803	-40.0	0.013	-37.501	0.0	0.993	-0.058
-79.0	0.073	-22.766	-39.0	0.017	-35.253	1.0	0.935	-0.585
-78.0	0.081	-21.873	-38.0	0.047	-26.648	2.0	0.822	-1.704
-77.0	0.088	-21.137	-37.0	0.071	-22.967	3.0	0.667	-3.522
-76.0	0.094	-20.529	-36.0	0.087	-21.167	4.0	0.486	-6.274
-75.0	0.099	-20.053	-35.0	0.093	-20.585	5.0	0.298	-10.528
-74.0	0.103	-19.728	-34.0	0.088	-21.152	6.0	0.121	-18.351
-73.0	0.105	-19.539	-33.0	0.070	-23.079	7.0	0.029	-30.816
-72.0	0.106	-19.526	-32.0	0.043	-27.417	8.0	0.139	-17.153
-71.0	0.104	-19.677	-31.0	0.008	-41.743	9.0	0.204	-13.810
-70.0	0.100	-20.040	-30.0	0.029	-30.770	10.0	0.224	-12.997
-69.0	0.093	-20.642	-29.0	0.063	-23.947	11.0	0.204	-13.810
-68.0	0.084	-21.552	-28.0	0.091	-20.857	12.0	0.153	-16.279
-67.0	0.072	-22.857	-27.0	0.106	-19.526	13.0	0.085	-21.396
-66.0	0.058	-24.750	-26.0	0.105	-19.539	14.0	0.013	-37.905
-65.0	0.042	-27.510	-25.0	0.089	-21.018	15.0	0.055	-25.145
-64.0	0.026	-31.731	-24.0	0.057	-24.841	16.0	0.105	-19.551
-63.0	0.015	-36.745	-23.0	0.014	-36.928	17.0	0.133	-17.521
-62.0	0.023	-32.927	-22.0	0.034	-29.270	18.0	0.137	-17.296
-61.0	0.039	-28.091	-21.0	0.082	-21.775	19.0	0.118	-18.594
-60.0	0.056	-24.980	-20.0	0.119	-18.471	20.0	0.081	-21.791
-59.0	0.072	-22.912	-19.0	0.141	-17.021	21.0	0.035	-29.119
-58.0	0.083	-21.568	-18.0	0.142	-16.984	22.0	0.014	-37.306
-57.0	0.091	-20.785	-17.0	0.120	-18.427	23.0	0.057	-24.864
-56.0	0.094	-20.515	-16.0	0.081	-21.791	24.0	0.089	-20.974
-55.0	0.092	-20.756	-15.0	0.056	-25.074	25.0	0.106	-19.464
-54.0	0.083	-21.568	-14.0	0.095	-20.446	26.0	0.107	-19.439
-53.0	0.070	-23.117	-13.0	0.156	-16.117	27.0	0.091	-20.785
-52.0	0.051	-25.787	-12.0	0.207	-13.682	28.0	0.064	-23.926
-51.0	0.029	-30.635	-11.0	0.232	-12.708	29.0	0.028	-31.047