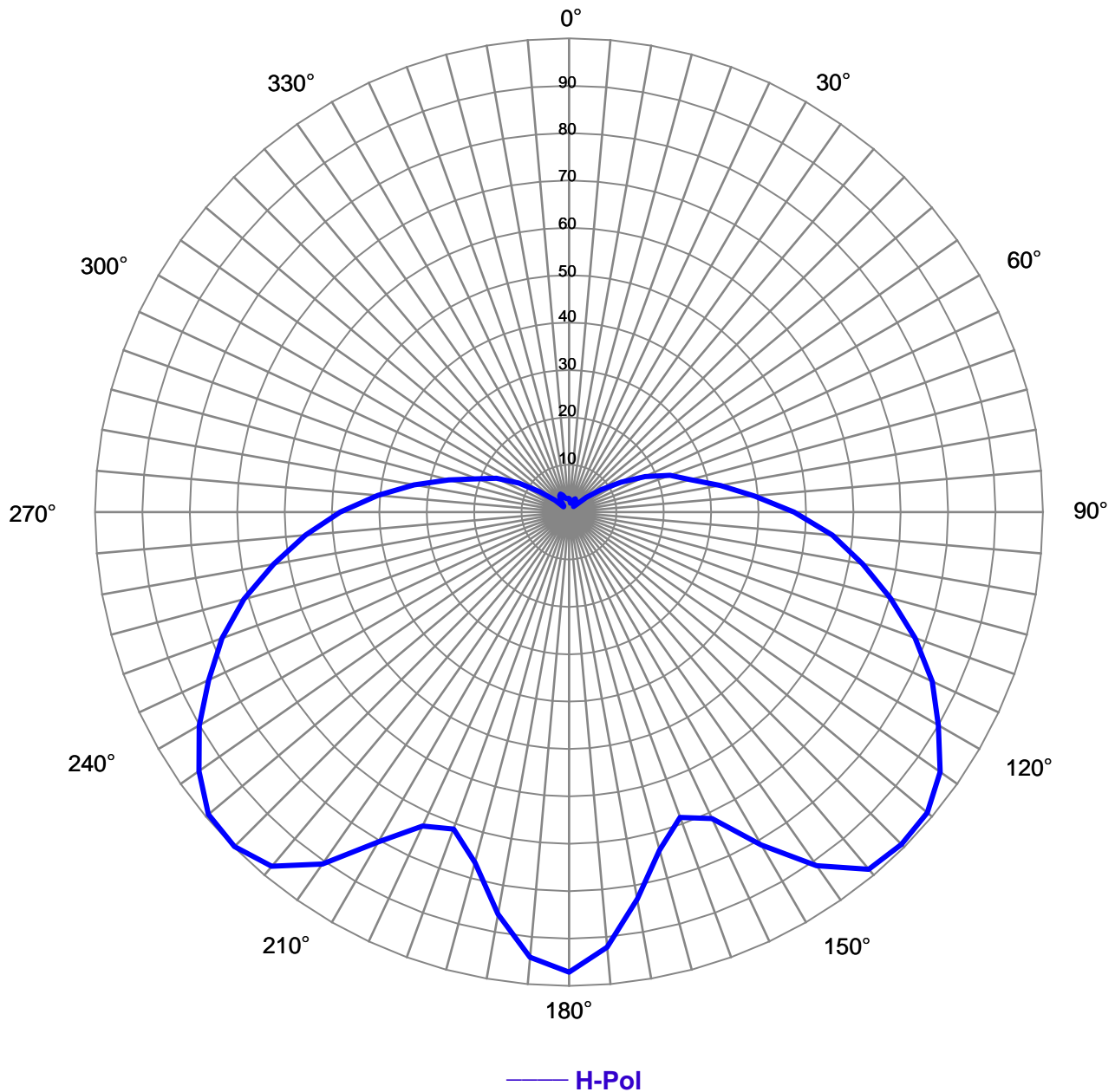




## Relative Field Azimuth Plane Pattern



Pattern Type:	<b>Relative Field</b>
Antenna Model:	<b>PSIUP6NC-15/16 Custom</b>
Polarization:	<b>Horizontal</b>
Gain:	<b>28.77 (14.59 db)</b>
Channels:	<b>15-16</b>

Type:	<b>UHF Panel</b>
Orientation:	<b>180 Degrees</b>
Pattern:	<b>Narrow Cardioid</b>
Reference:	<b>W16CW &amp; WUSP-LD</b>
Date:	<b>6/8/2023</b>

**PROPAGATION SYSTEMS INC.**

Relative Field Tabulation

Antenna Model: PSIUP6NC-15/16 Custom

Gain: 28.77 (14.59 dBd)

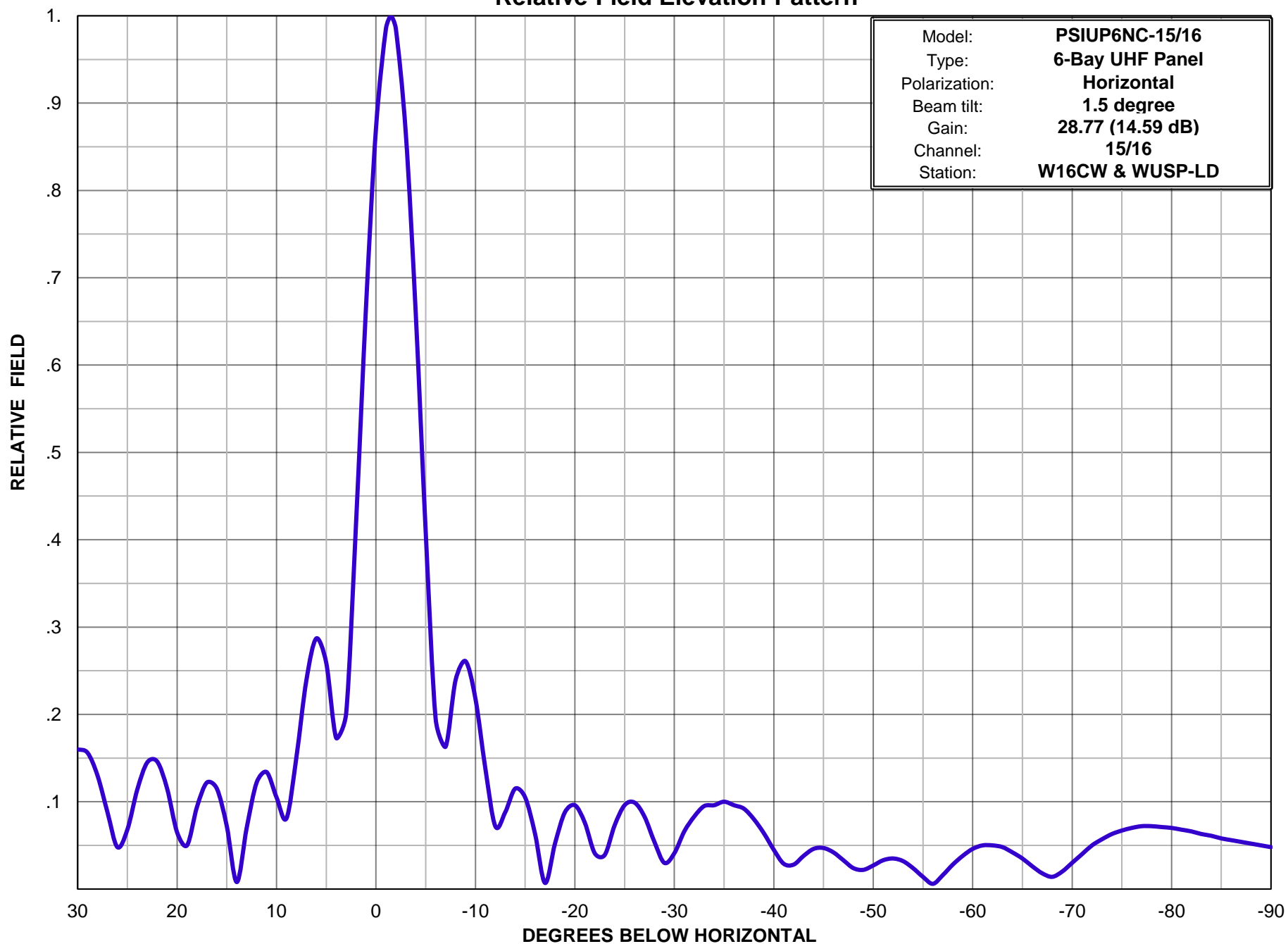
Station: W16CW &amp; WUSP-LD

Angle	Relative Field	Power Gain	Gain dB	Angle	Relative Field	Power Gain	Gain dB
0	0.028	0.02	-16.47	180	0.971	27.13	14.33
5	0.024	0.02	-17.81	185	0.943	25.58	14.08
10	0.019	0.01	-19.84	190	0.862	21.38	13.30
15	0.021	0.01	-18.97	195	0.766	16.88	12.27
20	0.027	0.02	-16.78	200	0.712	14.58	11.64
25	0.031	0.03	-15.58	205	0.731	15.37	11.87
30	0.029	0.02	-16.16	210	0.804	18.60	12.69
35	0.021	0.01	-18.97	215	0.907	23.67	13.74
40	0.015	0.01	-21.89	220	0.976	27.41	14.38
45	0.024	0.02	-17.81	225	0.998	28.66	14.57
50	0.048	0.07	-11.79	230	0.993	28.37	14.53
55	0.083	0.20	-7.03	235	0.953	26.13	14.17
60	0.127	0.46	-3.33	240	0.901	23.36	13.68
65	0.177	0.90	-0.45	245	0.839	20.25	13.06
70	0.227	1.48	1.71	250	0.779	17.46	12.42
75	0.265	2.02	3.05	255	0.710	14.50	11.61
80	0.324	3.02	4.80	260	0.633	11.53	10.62
85	0.393	4.44	6.48	265	0.558	8.96	9.52
90	0.475	6.49	8.12	270	0.483	6.71	8.27
95	0.558	8.96	9.52	275	0.405	4.72	6.74
100	0.629	11.38	10.56	280	0.332	3.17	5.01
105	0.702	14.18	11.52	285	0.263	1.99	2.99
110	0.777	17.37	12.40	290	0.205	1.21	0.82
115	0.846	20.59	13.14	295	0.169	0.82	-0.85
120	0.900	23.30	13.67	300	0.123	0.44	-3.61
125	0.956	26.29	14.20	305	0.076	0.17	-7.79
130	0.987	28.03	14.48	310	0.039	0.04	-13.59
135	0.992	28.31	14.52	315	0.016	0.01	-21.33
140	0.984	27.86	14.45	320	0.017	0.01	-20.80
145	0.911	23.88	13.78	325	0.030	0.03	-15.87
150	0.811	18.92	12.77	330	0.039	0.04	-13.59
155	0.714	14.67	11.66	335	0.042	0.05	-12.95
160	0.686	13.54	11.32	340	0.038	0.04	-13.81
165	0.739	15.71	11.96	345	0.031	0.03	-15.58
170	0.829	19.77	12.96	350	0.029	0.02	-16.16
175	0.922	24.46	13.88	355	0.029	0.02	-16.16



**Propagation Systems, Inc.**

**Relative Field Elevation Pattern**





**Propagation Systems Inc.**  
Elevation Pattern Tabulation  
Antenna: PSIUP6NC-15/16 Custom  
Channel: 15/16  
W16CW & WUSP-LD

<u>Angle</u>	<u>Field</u>	<u>dB</u>	<u>Angle</u>	<u>Field</u>	<u>dB</u>	<u>Angle</u>	<u>Field</u>	<u>dB</u>
-90.0	0.048	-26.375	-30.0	0.041	-27.744	30.0	0.160	-15.918
-89.0	0.050	-26.021	-29.0	0.030	-30.458	31.0	0.150	-16.478
-88.0	0.052	-25.680	-28.0	0.054	-25.352	32.0	0.125	-18.062
-87.0	0.054	-25.352	-27.0	0.083	-21.618	33.0	0.102	-19.828
-86.0	0.056	-25.036	-26.0	0.099	-20.087	34.0	0.074	-22.615
-85.0	0.058	-24.731	-25.0	0.096	-20.355	35.0	0.054	-25.352
-84.0	0.061	-24.293	-24.0	0.073	-22.734	36.0	0.034	-29.370
-83.0	0.063	-24.013	-23.0	0.039	-28.179	37.0	0.020	-33.979
-82.0	0.066	-23.609	-22.0	0.041	-27.744	38.0	0.018	-34.895
-81.0	0.068	-23.350	-21.0	0.076	-22.384	39.0	0.026	-31.701
-80.0	0.070	-23.098	-20.0	0.096	-20.355	40.0	0.033	-29.630
-79.0	0.071	-22.975	-19.0	0.088	-21.110	41.0	0.035	-29.119
-78.0	0.072	-22.853	-18.0	0.052	-25.680	42.0	0.032	-29.897
-77.0	0.072	-22.853	-17.0	0.007	-43.098	43.0	0.025	-32.041
-76.0	0.070	-23.098	-16.0	0.063	-24.013	44.0	0.020	-33.979
-75.0	0.067	-23.479	-15.0	0.105	-19.576	45.0	0.022	-33.152
-74.0	0.063	-24.013	-14.0	0.115	-18.786	46.0	0.028	-31.057
-73.0	0.057	-24.883	-13.0	0.088	-21.110	47.0	0.032	-29.897
-72.0	0.050	-26.021	-12.0	0.072	-22.853	48.0	0.031	-30.173
-71.0	0.040	-27.959	-11.0	0.138	-17.202	49.0	0.025	-32.041
-70.0	0.030	-30.458	-10.0	0.218	-13.231	50.0	0.015	-36.478
-69.0	0.020	-33.979	-9.0	0.261	-11.667	51.0	0.007	-43.098
-68.0	0.014	-37.077	-8.0	0.239	-12.432	52.0	0.018	-34.895
-67.0	0.018	-34.895	-7.0	0.163	-15.756	53.0	0.032	-29.897
-66.0	0.026	-31.701	-6.0	0.195	-14.199	54.0	0.044	-27.131
-65.0	0.035	-29.119	-5.0	0.409	-7.766	55.0	0.051	-25.849
-64.0	0.042	-27.535	-4.0	0.659	-3.622	56.0	0.054	-25.352
-63.0	0.048	-26.375	-3.0	0.865	-1.260	57.0	0.052	-25.680
-62.0	0.050	-26.021	-2.0	0.985	-0.131	58.0	0.045	-26.936
-61.0	0.050	-26.021	-1.0	0.985	-0.131	59.0	0.034	-29.370
-60.0	0.046	-26.745	0.0	0.871	-1.200	60.0	0.023	-32.765
-59.0	0.038	-28.404	1.0	0.667	-3.517	61.0	0.017	-35.391
-58.0	0.028	-31.057	2.0	0.420	-7.535	62.0	0.025	-32.041
-57.0	0.016	-35.918	3.0	0.201	-13.936	63.0	0.040	-27.959
-56.0	0.006	-44.437	4.0	0.173	-15.239	64.0	0.056	-25.036
-55.0	0.014	-37.077	5.0	0.259	-11.734	65.0	0.070	-23.098
-54.0	0.024	-32.396	6.0	0.287	-10.842	66.0	0.082	-21.724
-53.0	0.032	-29.897	7.0	0.239	-12.432	67.0	0.090	-20.915
-52.0	0.035	-29.119	8.0	0.151	-16.420	68.0	0.094	-20.537
-51.0	0.033	-29.630	9.0	0.081	-21.830	69.0	0.094	-20.537
-50.0	0.027	-31.373	10.0	0.105	-19.576	70.0	0.091	-20.819
-49.0	0.022	-33.152	11.0	0.134	-17.458	71.0	0.085	-21.412
-48.0	0.024	-32.396	12.0	0.122	-18.273	72.0	0.078	-22.158
-47.0	0.033	-29.630	13.0	0.070	-23.098	73.0	0.069	-23.223
-46.0	0.042	-27.535	14.0	0.008	-41.938	74.0	0.060	-24.437
-45.0	0.047	-26.558	15.0	0.072	-22.853	75.0	0.050	-26.021
-44.0	0.046	-26.745	16.0	0.115	-18.786	76.0	0.042	-27.535
-43.0	0.038	-28.404	17.0	0.122	-18.273	77.0	0.034	-29.370
-42.0	0.028	-31.057	18.0	0.094	-20.537	78.0	0.029	-30.752
-41.0	0.029	-30.752	19.0	0.050	-26.021	79.0	0.026	-31.701
-40.0	0.045	-26.936	20.0	0.065	-23.742	80.0	0.026	-31.701
-39.0	0.064	-23.876	21.0	0.115	-18.786	81.0	0.028	-31.057
-38.0	0.080	-21.938	22.0	0.146	-16.713	82.0	0.031	-30.173
-37.0	0.092	-20.724	23.0	0.145	-16.773	83.0	0.034	-29.370
-36.0	0.096	-20.355	24.0	0.114	-18.862	84.0	0.037	-28.636
-35.0	0.100	-20.000	25.0	0.068	-23.350	85.0	0.039	-28.179
-34.0	0.096	-20.355	26.0	0.048	-26.375	86.0	0.041	-27.744
-33.0	0.095	-20.446	27.0	0.088	-21.110	87.0	0.042	-27.535
-32.0	0.083	-21.618	28.0	0.130	-17.721	88.0	0.042	-27.535
-31.0	0.066	-23.609	29.0	0.156	-16.138	89.0	0.041	-27.744
						90.0	0.040	-27.959