



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

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

PROPAGATION SYSTEMS INC.

Antenna Model: PSILP12BG-36

Gain: 38.1 (15.81 dB)

Angle	Relative Field	Power Gain	Gain dB
0	0.360	4.94	6.94
10	0.390	5.80	7.63
20	0.390	5.80	7.63
30	0.400	6.10	7.85
40	0.510	9.91	9.96
50	0.790	23.78	13.76
60	0.930	32.95	15.18
70	0.990	37.34	15.72
75	1.000	38.10	15.81
80	0.980	36.59	15.63
90	0.890	30.18	14.80
100	0.690	18.14	12.59
110	0.510	9.91	9.96
120	0.370	5.22	7.17
130	0.270	2.78	4.44
140	0.200	1.52	1.83
150	0.180	1.23	0.91
160	0.190	1.38	1.38
170	0.200	1.52	1.83
180	0.210	1.68	2.25
190	0.200	1.52	1.83
200	0.190	1.38	1.38
210	0.180	1.23	0.91
220	0.200	1.52	1.83
230	0.270	2.78	4.44
240	0.370	5.22	7.17
250	0.510	9.91	9.96
260	0.690	18.14	12.59
270	0.890	30.18	14.80
280	0.980	36.59	15.63
285	1.000	38.10	15.81
290	0.990	37.34	15.72
300	0.930	32.95	15.18
310	0.790	23.78	13.76
320	0.510	9.91	9.96
330	0.400	6.10	7.85
340	0.390	5.80	7.63
350	0.390	5.80	7.63

Propagation Systems Inc.Relative Field Tabulation
Standard 12-Bay Elevation Pattern

Antenna Model: PSILP12

Beam Tilt: -1.0 degree

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-90	0.001	-60.0	-50	0.025	-31.9	-10	0.096	-20.4
-89	0.002	-55.6	-49	0.045	-27.0	-9	0.185	-14.7
-88	0.005	-46.6	-48	0.056	-25.1	-8	0.235	-12.6
-87	0.009	-41.3	-47	0.057	-24.9	-7	0.214	-13.4
-86	0.013	-37.7	-46	0.047	-26.6	-6	0.159	-16.0
-85	0.018	-35.0	-45	0.027	-31.3	-5	0.262	-11.6
-84	0.022	-33.0	-44	0.002	-54.8	-4	0.502	-6.0
-83	0.027	-31.3	-43	0.025	-32.2	-3	0.749	-2.5
-82	0.031	-30.1	-42	0.046	-26.8	-2	0.932	-0.6
-81	0.035	-29.1	-41	0.057	-24.9	-1	1.000	0.0
-80	0.038	-28.4	-40	0.055	-25.2	0	0.935	-0.6
-79	0.040	-28.1	-39	0.040	-28.1	1	0.752	-2.5
-78	0.040	-28.0	-38	0.013	-37.4	2	0.493	-6.1
-77	0.039	-28.3	-37	0.017	-35.6	3	0.216	-13.3
-76	0.036	-29.0	-36	0.043	-27.2	4	0.019	-34.6
-75	0.031	-30.2	-35	0.059	-24.5	5	0.169	-15.5
-74	0.025	-32.1	-34	0.059	-24.6	6	0.218	-13.2
-73	0.018	-35.0	-33	0.042	-27.5	7	0.180	-14.9
-72	0.013	-37.9	-32	0.012	-38.5	8	0.086	-21.3
-71	0.015	-36.2	-31	0.023	-32.8	9	0.020	-34.0
-70	0.025	-32.2	-30	0.052	-25.6	10	0.100	-20.0
-69	0.035	-29.1	-29	0.067	-23.5	11	0.131	-17.7
-68	0.045	-26.9	-28	0.060	-24.4	12	0.110	-19.2
-67	0.053	-25.4	-27	0.034	-29.4	13	0.052	-25.7
-66	0.059	-24.6	-26	0.005	-45.3	14	0.018	-35.0
-65	0.060	-24.4	-25	0.046	-26.8	15	0.074	-22.6
-64	0.058	-24.8	-24	0.073	-22.7	16	0.098	-20.2
-63	0.050	-26.0	-23	0.077	-22.3	17	0.085	-21.4
-62	0.038	-28.4	-22	0.053	-25.5	18	0.043	-27.3
-61	0.023	-32.9	-21	0.009	-41.1	19	0.010	-40.1
-60	0.007	-42.6	-20	0.043	-27.4	20	0.055	-25.1
-59	0.018	-34.9	-19	0.083	-21.6	21	0.078	-22.1
-58	0.036	-28.9	-18	0.096	-20.4	22	0.073	-22.7
-57	0.050	-26.0	-17	0.073	-22.8	23	0.043	-27.2
-56	0.059	-24.5	-16	0.018	-35.0	24	0.001	-58.3
-55	0.061	-24.3	-15	0.052	-25.7	25	0.039	-28.2
-54	0.055	-25.2	-14	0.112	-19.0	26	0.065	-23.8
-53	0.041	-27.7	-13	0.137	-17.2	27	0.068	-23.3
-52	0.021	-33.5	-12	0.115	-18.8	28	0.050	-26.0
-51	0.003	-51.8	-11	0.061	-24.3	29	0.017	-35.4
						30	0.020	-34.1

