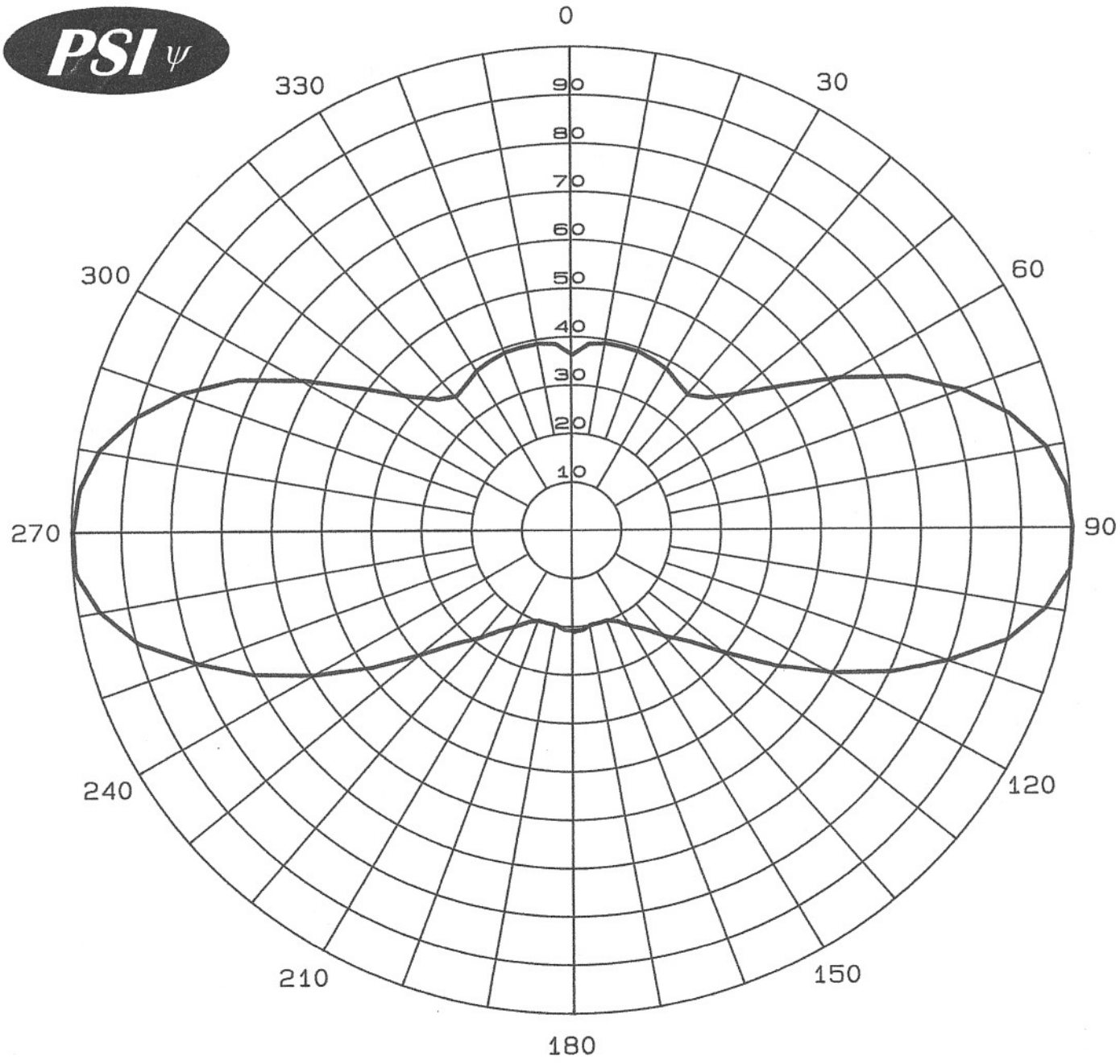


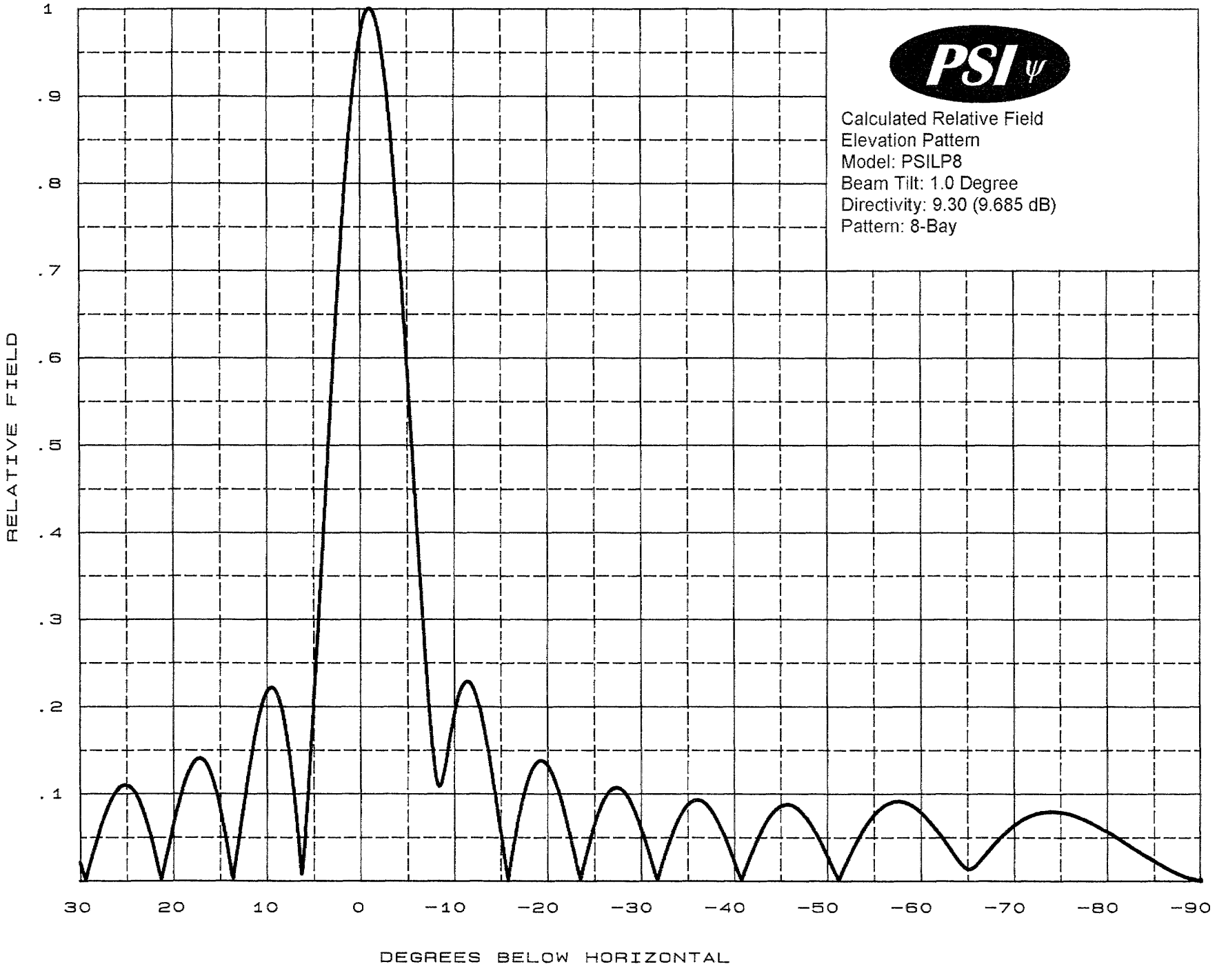
Calculated Relative Field
Azimuth Plane Pattern
Low Power UHF Slot
Antenna Type: PSILP
Pattern Type: BH
Directivity: 3.0 (4.7 dB)
Date: 7/1/97
Rev. 0

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

PROPAGATION SYSTEMS INC.

Relative Field Tabulation
Antenna Model: PSILP8BH-21-CP
Gain: 14.1 (11.49 dBd)

Angle	Relative Field	Power Gain	Gain dB
0	0.360	1.83	2.62
10	0.390	2.14	3.31
20	0.390	2.14	3.31
30	0.380	2.04	3.09
40	0.360	1.83	2.62
50	0.430	2.61	4.16
60	0.620	5.42	7.34
70	0.830	9.71	9.87
80	0.960	12.99	11.14
90	1.000	14.10	11.49
100	0.960	12.99	11.14
110	0.800	9.02	9.55
120	0.600	5.08	7.06
130	0.400	2.26	3.53
140	0.290	1.19	0.74
150	0.230	0.75	-1.27
160	0.200	0.56	-2.49
170	0.200	0.56	-2.49
180	0.210	0.62	-2.06
190	0.200	0.56	-2.49
200	0.200	0.56	-2.49
210	0.230	0.75	-1.27
220	0.290	1.19	0.74
230	0.400	2.26	3.53
240	0.600	5.08	7.06
250	0.800	9.02	9.55
260	0.960	12.99	11.14
270	1.000	14.10	11.49
280	0.960	12.99	11.14
290	0.830	9.71	9.87
300	0.620	5.42	7.34
310	0.430	2.61	4.16
320	0.360	1.83	2.62
330	0.380	2.04	3.09
340	0.390	2.14	3.31
350	0.390	2.14	3.31


PSI ψ
Calculated Relative Field
Elevation Pattern
Model: PSILP8
Beam Tilt: 1.0 Degree
Directivity: 9.30 (9.685 dB)
Pattern: 8-Bay
RELATIVE FIELD
1
.9
.8
.7
.6
.5
.4
.3
.2
.1
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
DEGREES BELOW HORIZONTAL

Propagation Systems Inc.

Relative Field Tabulation

Standard 8-Bay Elevation Pattern

Antenna Model: PSILP8

Beam Tilt: -1.0 degree

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-90	0.001	-60.0	-50	0.027	-31.4	-10	0.194	-14.3
-89	0.002	-54.1	-49	0.049	-26.3	-9	0.133	-17.5
-88	0.006	-45.0	-48	0.067	-23.5	-8	0.118	-18.6
-87	0.010	-39.6	-47	0.080	-21.9	-7	0.232	-12.7
-86	0.016	-36.0	-46	0.087	-21.3	-6	0.400	-8.0
-85	0.022	-33.2	-45	0.085	-21.4	-5	0.578	-4.8
-84	0.028	-30.9	-44	0.076	-22.4	-4	0.744	-2.6
-83	0.035	-29.0	-43	0.059	-24.5	-3	0.879	-1.1
-82	0.042	-27.5	-42	0.036	-28.9	-2	0.968	-0.3
-81	0.049	-26.2	-41	0.009	-41.3	-1	1.000	0.0
-80	0.056	-25.1	-40	0.020	-33.9	0	0.972	-0.2
-79	0.062	-24.2	-39	0.048	-26.4	1	0.886	-1.0
-78	0.067	-23.4	-38	0.071	-23.0	2	0.753	-2.5
-77	0.072	-22.8	-37	0.087	-21.3	3	0.584	-4.7
-76	0.076	-22.4	-36	0.092	-20.7	4	0.400	-8.0
-75	0.078	-22.2	-35	0.087	-21.2	5	0.216	-13.3
-74	0.079	-22.1	-34	0.071	-23.0	6	0.052	-25.7
-73	0.078	-22.2	-33	0.045	-26.9	7	0.080	-21.9
-72	0.075	-22.5	-32	0.012	-38.3	8	0.170	-15.4
-71	0.070	-23.1	-31	0.024	-32.5	9	0.215	-13.3
-70	0.063	-24.0	-30	0.058	-24.7	10	0.217	-13.3
-69	0.054	-25.3	-29	0.086	-21.3	11	0.183	-14.7
-68	0.044	-27.2	-28	0.103	-19.8	12	0.124	-18.1
-67	0.031	-30.1	-27	0.106	-19.5	13	0.053	-25.6
-66	0.019	-34.5	-26	0.093	-20.6	14	0.019	-34.5
-65	0.013	-37.8	-25	0.065	-23.7	15	0.080	-22.0
-64	0.022	-33.0	-24	0.026	-31.7	16	0.121	-18.3
-63	0.037	-28.6	-23	0.020	-33.8	17	0.139	-17.1
-62	0.052	-25.7	-22	0.067	-23.5	18	0.134	-17.5
-61	0.066	-23.6	-21	0.106	-19.5	19	0.108	-19.4
-60	0.077	-22.2	-20	0.132	-17.6	20	0.067	-23.5
-59	0.086	-21.3	-19	0.137	-17.3	21	0.018	-34.7
-58	0.090	-20.9	-18	0.119	-18.5	22	0.029	-30.6
-57	0.090	-20.9	-17	0.079	-22.1	23	0.070	-23.1
-56	0.085	-21.4	-16	0.020	-34.1	24	0.097	-20.2
-55	0.075	-22.5	-15	0.051	-25.9	25	0.109	-19.2
-54	0.061	-24.3	-14	0.122	-18.3	26	0.104	-19.6
-53	0.042	-27.5	-13	0.183	-14.8	27	0.085	-21.4
-52	0.020	-33.8	-12	0.221	-13.1	28	0.054	-25.3
-51	0.003	-49.9	-11	0.226	-12.9	29	0.017	-35.3