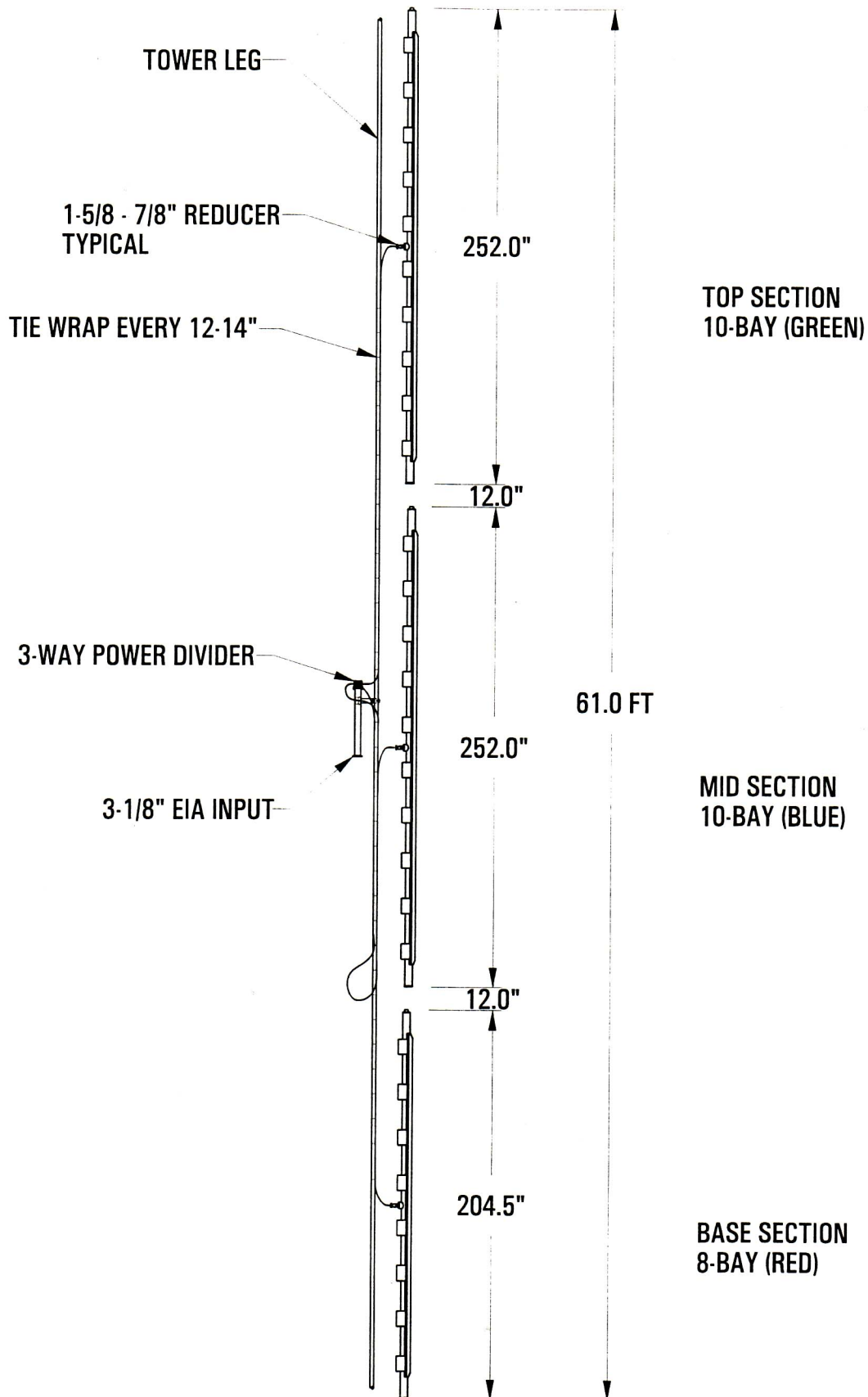
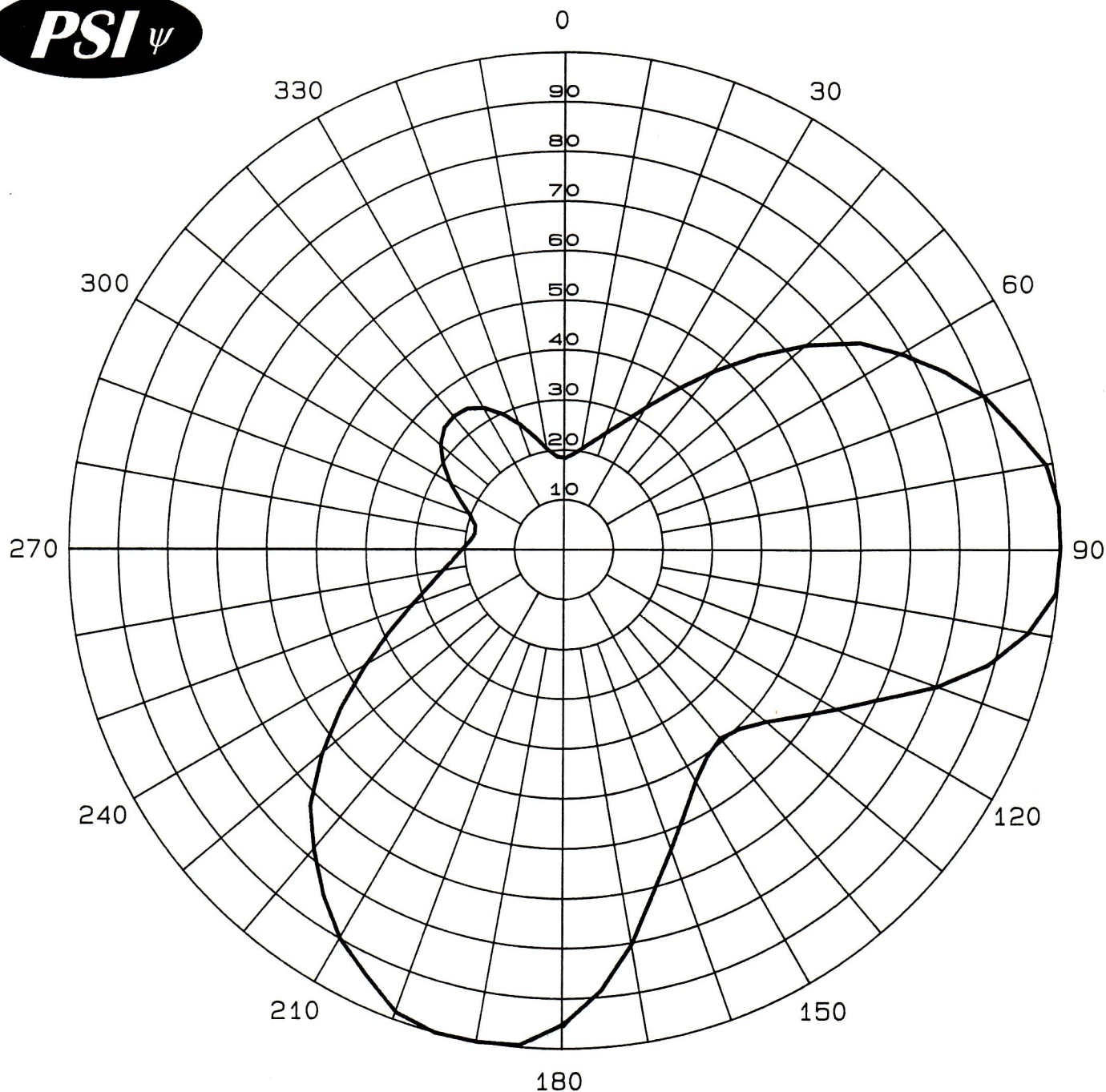


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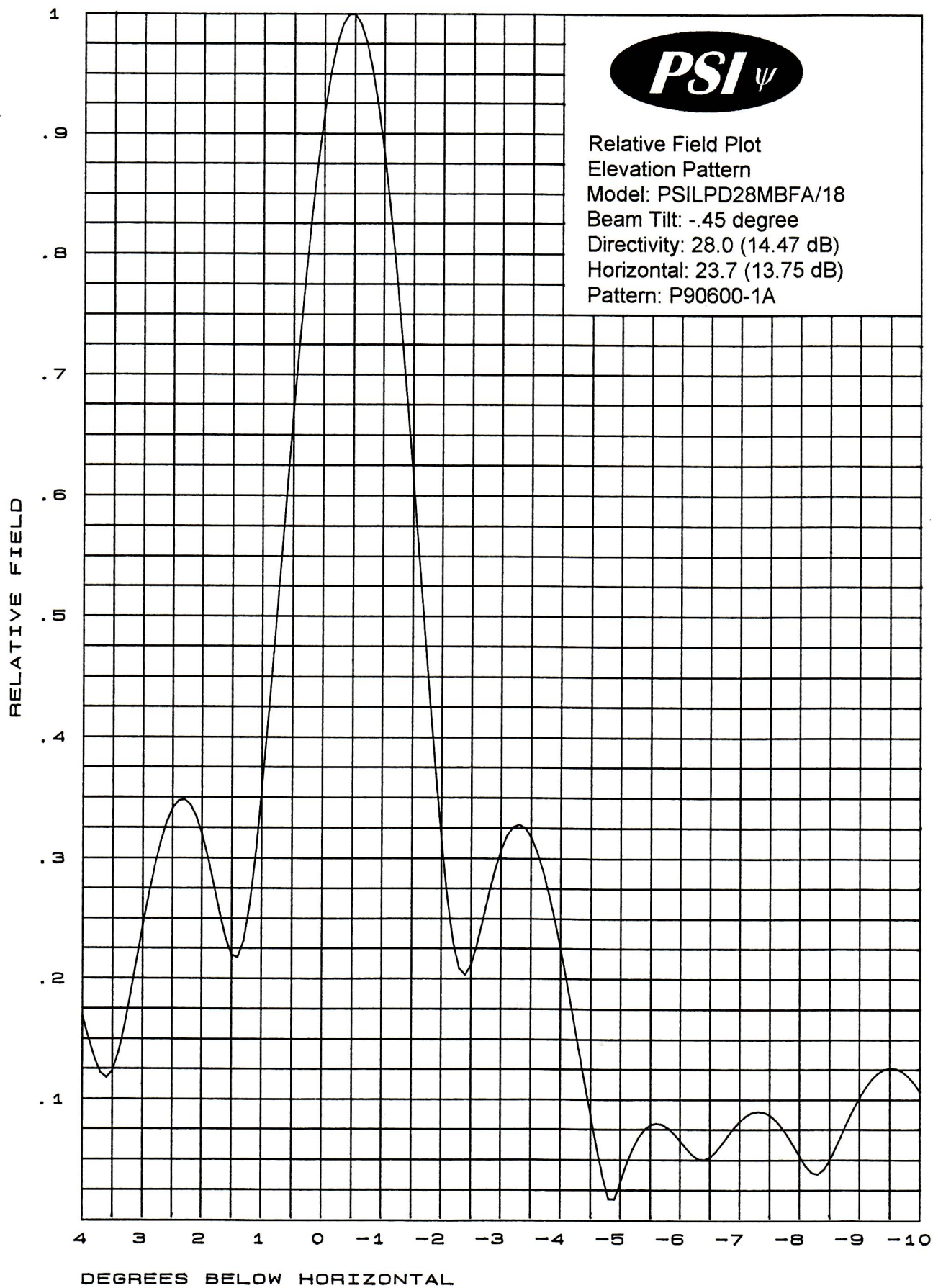


MATERIAL		<i>PROPAGATION SYSTEMS INC.</i>			
		EBENSBURG, PENNSYLVANIA		U.S.A.	
		ANTENNA ELEVATION			
<div>TOLERANCE UNLESS OTHERWISE NOTED</div> <div>FRACTIONS X/X" +/- 1/16"</div> <div>DECIMALS XX" +/- .01"</div> <div>DECIMALS XXX" +/- .005"</div> <div>ANGLES +/- 3</div>		MODEL: PSILPD28MBFA/18	DWG. BY. P. MCINTOSH	DATE 1-26-01	
		CHANNEL/FREQ.: 18	APP'D. BY.	DATE	
		SCALE: NTS	DWG. NO. J101LP-206-007	REV.	
		SIZE A			



Calculated Relative Field
Azimuth Plane Pattern
Antenna: PSILPD28MBFA/18
Type: 28-Bay Digital Slot
Directivity: 2.65 (4.23 dB)
Peak Gain: 74.2 (18.7 dB)
Channel: 18
Pattern: P90600-1B

Propagation Systems Inc.
PO Box 113
Ebensburg, PA 15931



PROPAGATION SYSTEMS INC.
Relative Field Tabulation
Antenna Model: PSILPD28MBFA/18
Gain: 74.2 (18.7 dBd)
Channel 18
Ref. P90600-1

Angle	Relative Field	Power Gain	Gain dB	Angle	Relative Field	Power Gain	Gain dB
0	0.18	2.5	4.00	180	0.95	67.0	18.26
5	0.19	2.8	4.42	185	1.00	73.5	18.66
10	0.21	3.2	5.07	190	1.00	74.2	18.70
15	0.23	3.8	5.82	195	1.00	74.2	18.70
20	0.25	4.7	6.73	200	0.99	72.0	18.57
25	0.29	6.0	7.80	205	0.94	65.6	18.17
30	0.33	8.2	9.13	210	0.90	60.1	17.79
35	0.39	11.5	10.59	215	0.85	53.0	17.24
40	0.47	16.2	12.09	220	0.79	45.7	16.60
45	0.55	22.5	13.53	225	0.73	39.0	15.91
50	0.64	30.4	14.83	230	0.64	30.4	14.83
55	0.73	39.0	15.91	235	0.55	22.5	13.53
60	0.79	45.7	16.60	240	0.47	16.2	12.09
65	0.85	53.0	17.24	245	0.39	11.5	10.59
70	0.90	60.1	17.79	250	0.33	8.2	9.13
75	0.94	65.6	18.17	255	0.29	6.0	7.80
80	0.99	72.0	18.57	260	0.25	4.7	6.73
85	1.00	74.2	18.70	265	0.23	3.8	5.82
90	1.00	74.2	18.70	270	0.21	3.2	5.07
95	1.00	73.5	18.66	275	0.19	2.8	4.42
100	0.95	67.0	18.26	280	0.18	2.5	4.00
105	0.89	58.1	17.64	285	0.19	2.6	4.14
110	0.80	47.5	16.77	290	0.20	3.1	4.90
115	0.71	36.9	15.67	295	0.23	4.0	6.05
120	0.64	29.9	14.76	300	0.27	5.3	7.27
125	0.58	24.8	13.94	305	0.30	6.7	8.28
130	0.53	21.1	13.24	310	0.33	8.0	9.05
135	0.50	18.8	12.75	315	0.35	8.9	9.49
140	0.49	17.9	12.53	320	0.35	9.1	9.59
145	0.50	18.8	12.75	325	0.35	8.9	9.49
150	0.53	21.1	13.24	330	0.33	8.0	9.05
155	0.58	24.8	13.94	335	0.30	6.7	8.28
160	0.64	29.9	14.76	340	0.27	5.3	7.27
165	0.71	36.9	15.67	345	0.23	4.0	6.05
170	0.80	47.5	16.77	350	0.20	3.1	4.90
175	0.89	58.1	17.64	355	0.19	2.6	4.14