



Antenna Specifications

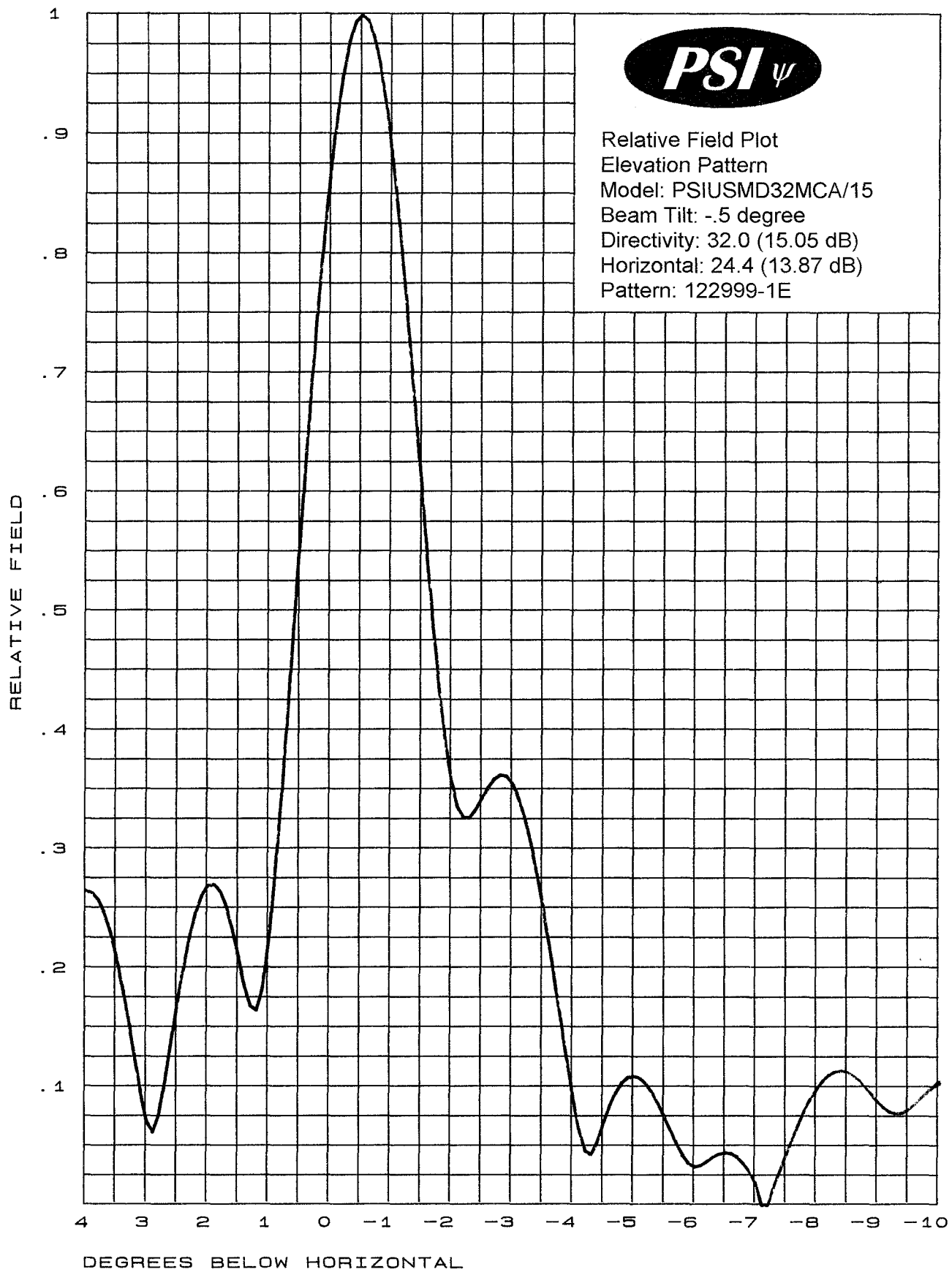
PROPOSAL NUMBER:	92399-1	DATE:	12/29/99
CUSTOMER:	Star Broadcasting	ANTENNA TYPE:	PSIUSMD32MCA/15
CALL LETTERS:	New	CHANNEL:	15
LOCATION:	Abilene, TX	REVISION:	B

Electrical Specifications

RMS GAIN MAIN LOBE	32.0	15.05	dB
RMS GAIN AT HORIZONTAL	24.4	13.87	dB
AZIMUTH DIRECTIVITY	1.92	2.83	dB
PEAK DIRECTIONAL GAIN	61.44	17.88	dB
ELEVATION PATTERN	122999-1E		
AZIMUTH PATTERN	122999-1D		
BEAM TILT	.5 Degree		
PEAK INPUT POWER (10% AURAL)	80 kW		
INPUT SIZE	6-1/8" EIA center fed		
INPUT IMPEDANCE	50 Ohm		

Mechanical Specifications

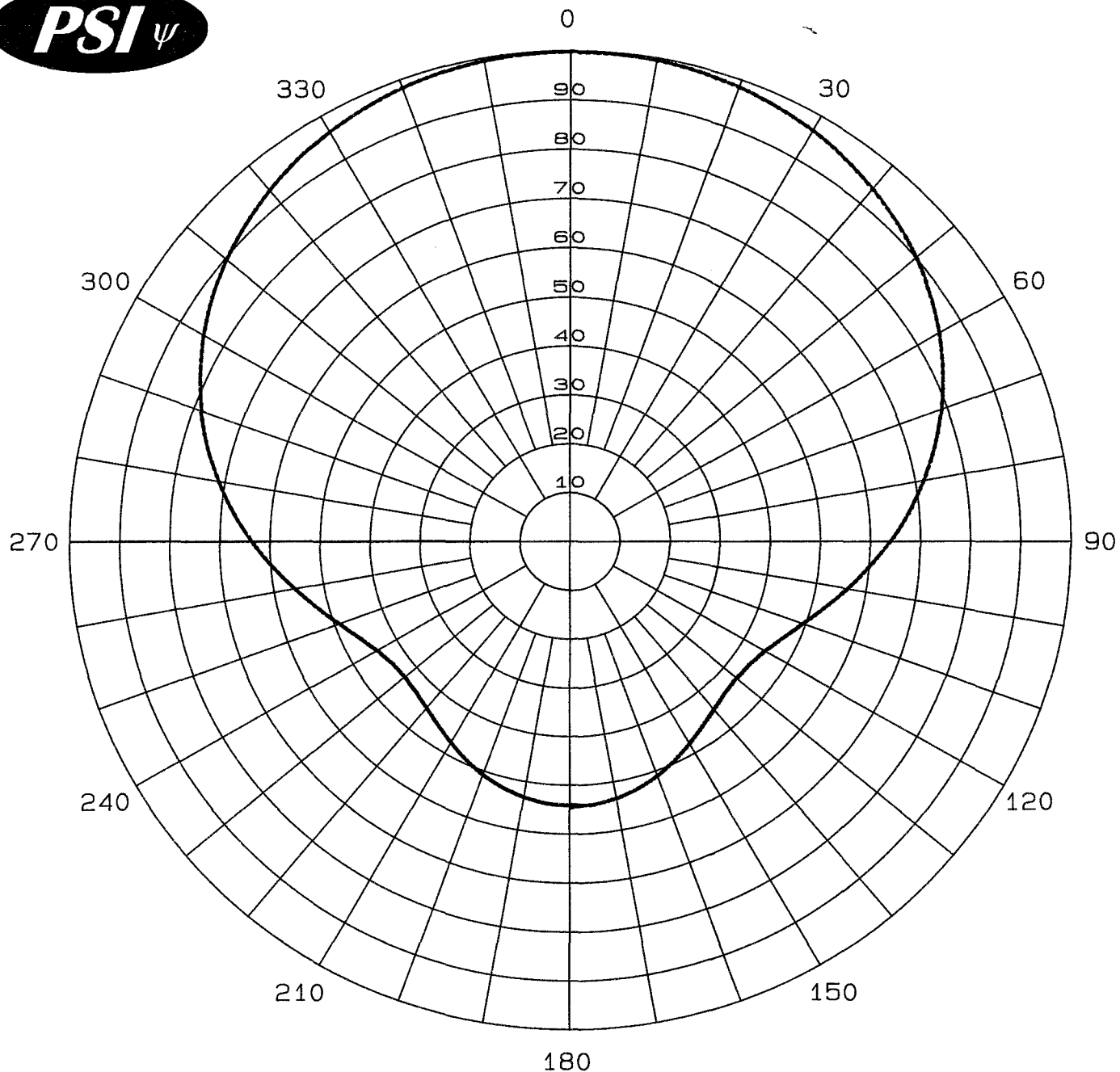
HEIGHT WITH LIGHTNING PROTECTION	NA	Ft	NA	M
ANTENNA LENGTH	74.34	Ft	22.7	M
CENTER OF RADIATION	37.2	Ft	11.3	M
WIND FORCE (50/33 PSF)	2950	LB	1338	Kg
OVERTURN MOMENT	NA	Ft LB	NA	Kg M
WEIGHT	1500	LB	680	Kg



PROPAGATION SYSTEMS INC.

Relative Field Tabulation
Elevation Pattern
Antenna: PSIU3MD32MCA-15
Channel: 15
Abilene, TX

Angle	Relative Field	Angle	Relative Field	Angle	Relative Field
-90	0.001	-50	0.037	-10	0.095
-89	0.002	-49	0.011	-9	0.102
-88	0.005	-48	0.009	-8	0.102
-87	0.009	-47	0.006	-7	0.018
-86	0.013	-46	0.020	-6	0.027
-85	0.017	-45	0.016	-5	0.106
-84	0.021	-44	0.016	-4	0.098
-83	0.022	-43	0.040	-3	0.331
-82	0.022	-42	0.033	-2	0.400
-81	0.020	-41	0.037	-1	0.931
-80	0.015	-40	0.038	0	0.873
-79	0.011	-39	0.010	1	0.143
-78	0.014	-38	0.010	2	0.270
-77	0.023	-37	0.010	3	0.065
-76	0.032	-36	0.022	4	0.252
-75	0.036	-35	0.006	5	0.150
-74	0.034	-34	0.039	6	0.170
-73	0.023	-33	0.035	7	0.023
-72	0.006	-32	0.040	8	0.024
-71	0.020	-31	0.037	9	0.057
-70	0.041	-30	0.001	10	0.011
-69	0.054	-29	0.008	11	0.089
-68	0.055	-28	0.022	12	0.066
-67	0.046	-27	0.011	13	0.083
-66	0.039	-26	0.037	14	0.035
-65	0.047	-25	0.044	15	0.017
-64	0.053	-24	0.044	16	0.022
-63	0.044	-23	0.045	17	0.026
-62	0.022	-22	0.000	18	0.039
-61	0.000	-21	0.008	19	0.055
-60	0.011	-20	0.030	20	0.048
-59	0.007	-19	0.005	21	0.049
-58	0.017	-18	0.058	22	0.000
-57	0.024	-17	0.049	23	0.008
-56	0.011	-16	0.069	24	0.025
-55	0.019	-15	0.036	25	0.007
-54	0.041	-14	0.017	26	0.041
-53	0.040	-13	0.025	27	0.040
-52	0.032	-12	0.037	28	0.042
-51	0.042	-11	0.060	29	0.038
				30	0.001



Calculated Relative Field
Azimuth Plane Pattern
Antenna: PSIUSMD32MCA/15
Type: Side Mount Directional Slot
Directivity: 1.92 (2.83 dB)
Peak Gain: 61.44 (17.88 dB)
Pattern: 122999-1D
Ref. Abilene, TX

Propagation Systems Inc.
PO Box 113
Ebensburg, PA 15931

PROPAGATION SYSTEMS INC.
Relative Field Tabulation
Antenna Model: PSIUSMD32MCA/15
Gain: 61.44 (17.88 dBd)
Ref. P122999 Rev. B
Channel: 15

Angle	Relative Field	Gain	Gain dB
0	1.000	61.44	17.88
10	0.996	60.95	17.85
20	0.984	59.49	17.74
30	0.964	57.10	17.57
40	0.934	53.60	17.29
50	0.895	49.21	16.92
60	0.843	43.66	16.40
70	0.780	37.38	15.73
80	0.706	30.62	14.86
90	0.628	24.23	13.84
100	0.551	18.65	12.71
110	0.485	14.45	11.60
120	0.443	12.06	10.81
130	0.432	11.47	10.59
140	0.448	12.33	10.91
150	0.478	14.04	11.47
160	0.511	16.04	12.05
170	0.532	17.39	12.40
180	0.540	17.92	12.53
190	0.532	17.39	12.40
200	0.511	16.04	12.05
210	0.478	14.04	11.47
220	0.448	12.33	10.91
230	0.432	11.47	10.59
240	0.443	12.06	10.81
250	0.485	14.45	11.60
260	0.551	18.65	12.71
270	0.628	24.23	13.84
280	0.706	30.62	14.86
290	0.780	37.38	15.73
300	0.843	43.66	16.40
310	0.895	49.21	16.92
320	0.934	53.60	17.29
330	0.964	57.10	17.57
340	0.984	59.49	17.74
350	0.996	60.95	17.85