

**Exhibit E-41**

This exhibit contains the data for the proposed directional antenna. All data required under Section 73.625(c) of the Commission's Rules have been included. The proposed antenna would be rotated to an azimuth of 200 degrees true relative to the manufacturer's directional pattern.



# Antenna Specifications

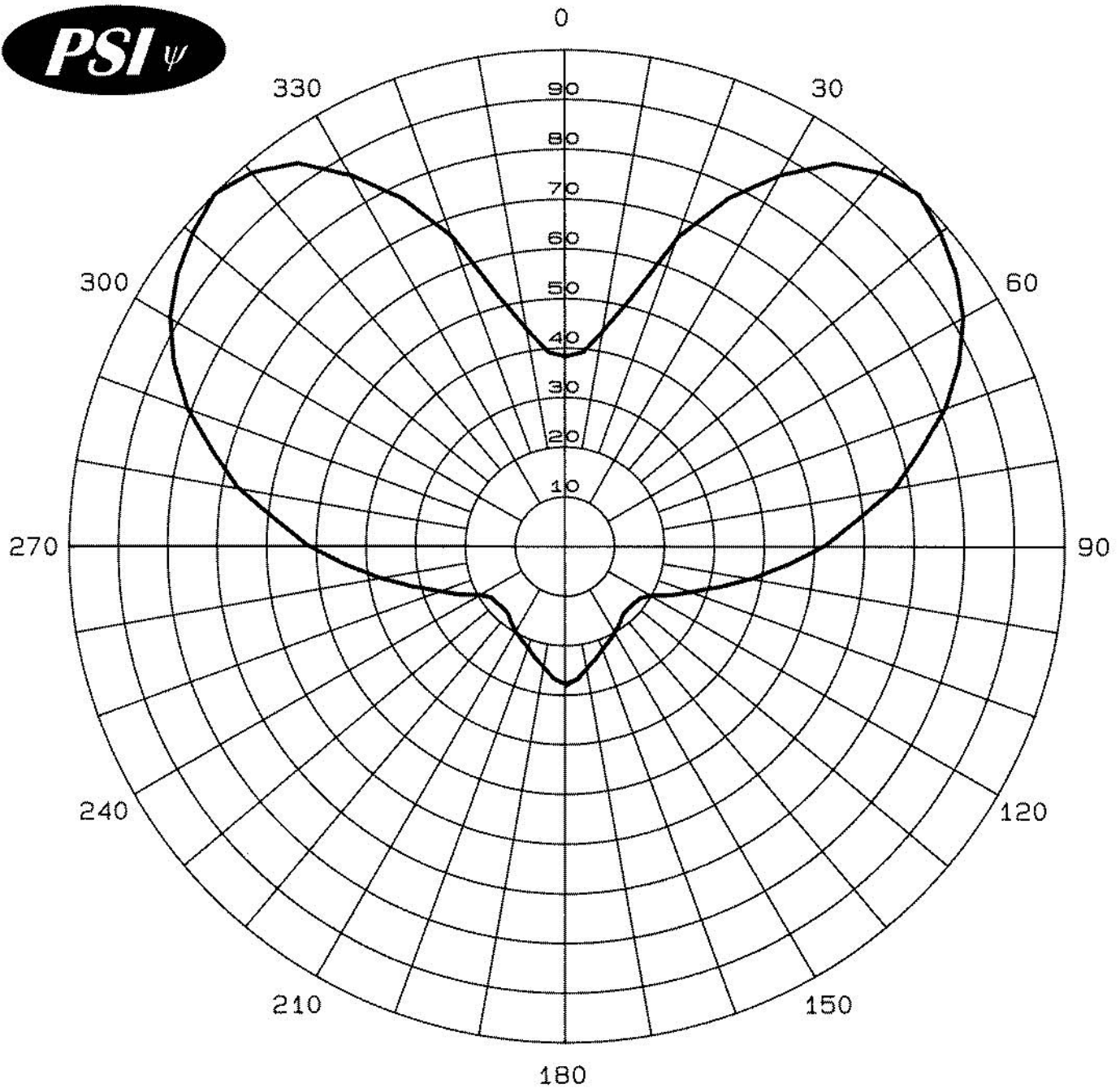
PROPOSAL NUMBER:	P22806-1	DATE:	3/15/2006
CUSTOMER:	Sunbelt Communications	ANTENNA TYPE:	PSILP10BE-41
CALL LETTERS:	New	CHANNEL:	41
LOCATION:	Unknown	REVISION:	1.0

## Electrical Specifications

RMS GAIN MAIN LOBE	10.5	10.21	dB
RMS GAIN AT HORIZONTAL	9.58	9.81	dB
AZIMUTH DIRECTIVITY	1.70	2.30	dB
PEAK DIRECTIONAL GAIN	31.6	15.0	dB
ELEVATION PATTERN	P22801-1A		
AZIMUTH PATTERN	"BE"		
BEAM TILT	1.0 Degree		
PEAK INPUT POWER (10% AURAL)	5 kW		
INPUT SIZE	1-5/8" EIA end fed		
INPUT IMPEDANCE	50 Ohm		

## Mechanical Specifications

HEIGHT WITH LIGHTNING PROTECTION	NA	Ft	NA	M
ANTENNA LENGTH	17.1	Ft	5.2	M
CENTER OF RADIATION	8.6	Ft	2.6	M
WIND AREA (CaAa) No Ice	20.66	Sq. Ft	1.92	Sq. M
OVERTURN MOMENT	NA	Ft LB	NA	Kg M
WEIGHT	86	LB	39	Kg



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

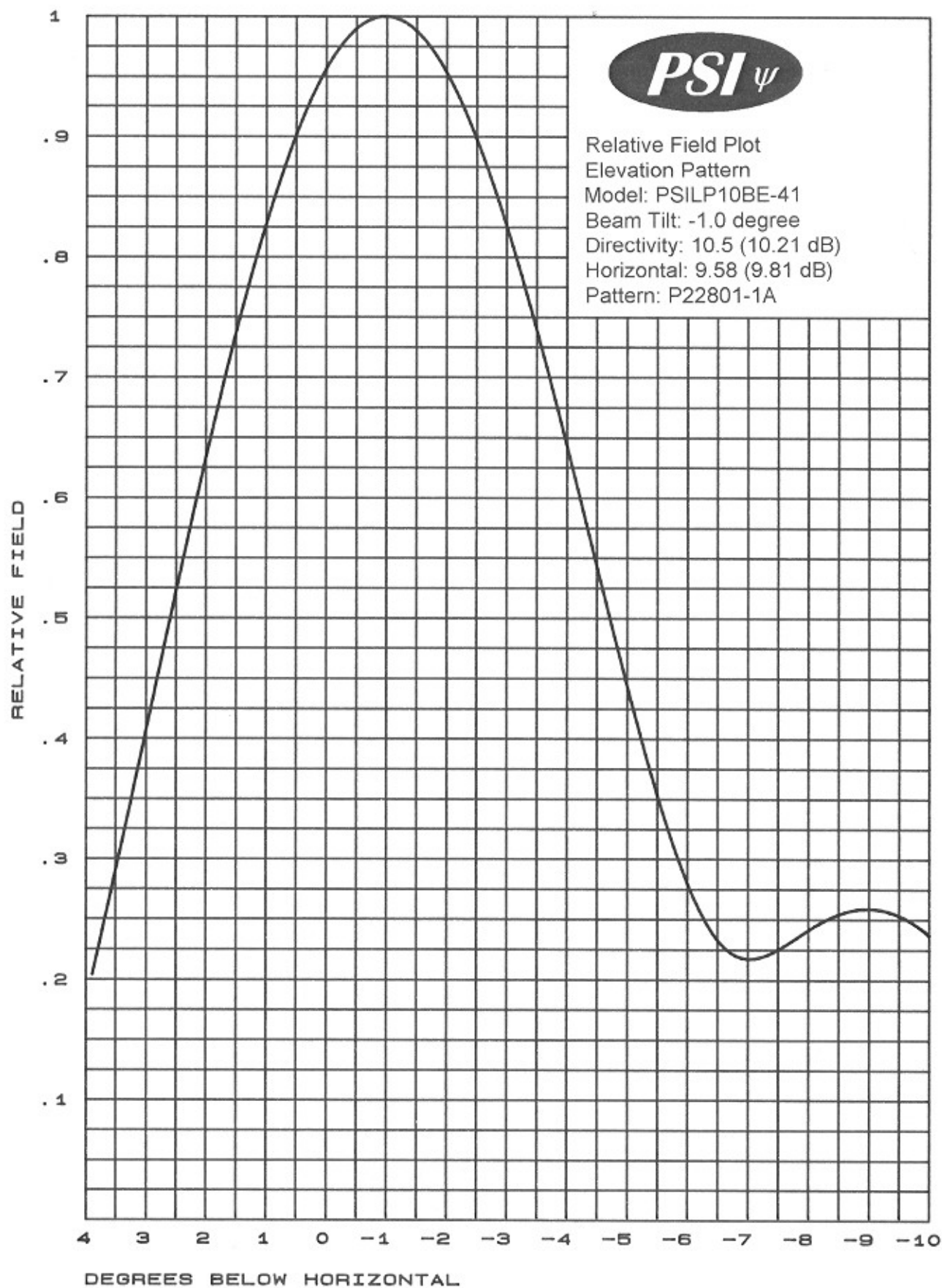
**PROPAGATION SYSTEMS, INC.**  
**PO BOX 113**  
**EBENSBURG, PA. 15931**

**PROPAGATION SYSTEMS INC.****Relative Field Tabulation**

Antenna Model: PSILP10BE-41

Gain: 31.6 (15.0 dBd)

Angle	Relative Field	Power Gain	Gain dB
0	0.380	4.56	6.59
10	0.440	6.12	7.87
20	0.660	13.76	11.39
30	0.860	23.37	13.69
40	0.980	30.35	14.82
50	0.980	30.35	14.82
60	0.920	26.75	14.27
70	0.810	20.73	13.17
80	0.670	14.19	11.52
90	0.520	8.54	9.32
100	0.380	4.56	6.59
110	0.270	2.30	3.62
120	0.200	1.26	1.02
130	0.180	1.02	0.10
140	0.180	1.02	0.10
150	0.200	1.26	1.02
160	0.220	1.53	1.85
170	0.250	1.98	2.96
180	0.280	2.48	3.94
190	0.250	1.98	2.96
200	0.220	1.53	1.85
210	0.200	1.26	1.02
220	0.180	1.02	0.10
230	0.180	1.02	0.10
240	0.200	1.26	1.02
250	0.270	2.30	3.62
260	0.380	4.56	6.59
270	0.520	8.54	9.32
280	0.670	14.19	11.52
290	0.810	20.73	13.17
300	0.920	26.75	14.27
310	0.980	30.35	14.82
320	0.980	30.35	14.82
330	0.860	23.37	13.69
340	0.660	13.76	11.39
350	0.440	6.12	7.87



STANDARD MOUNTING BRACKETS  
FOR 1½" TO 4" LEG DIAMETER

WHITE FIBERGLASS  
RADOMES

17.1 Ft.

TOWER LEG

1½" E.I.A. INPUT

APPROXIMATE SPECIFICATIONS	
MODEL:	PSILP10BE-41
CHANNEL:	41
GAIN:	31.62 (15.0 dB)
LENGTH:	17.1 Ft.
WEIGHT:	86.0 Lbs
WIND AREA:	20.66 Sq. Ft.
(CaAa) NO ICE	

A		D.G. Kellar	3/15/06	CHANGE FROM 8 BAY TO 10 BAY
REV.	MADE BY	CHECKED BY	DATE	CHANGE
This drawing is loaned subject to the express understanding and agreement that the drawing and information therein contained are, and shall remain the property of PSI, and will not be otherwise utilized or disposed of, directly or indirectly, and will not be used in whole or in part or assist in making or finish any information for the making of drawings, prints or other reproductions hereof, or for the design or making of any item, parts, object, apparatus or parts thereof, except upon the written permissions of PSI first obtained. The acceptance of this drawing will be construed as an acceptance of the forgoing agreement.				

SIZE  
A



**PROPAGATION SYSTEMS, INC.**

Ebensburg, Pennsylvania USA (814) 472-5540

TITLE:

ANTENNA OUTLINE

MODEL:	PSILP8BE-41	CHANNEL/ FREQUENCY:	CHAN. 41	DATE:	3/02/06
SCALE:	1: 20	DRAWN BY:	D.G. Kellar	APPROVED:	
DRAWING NO.:	PR1214-A	REV.	A		

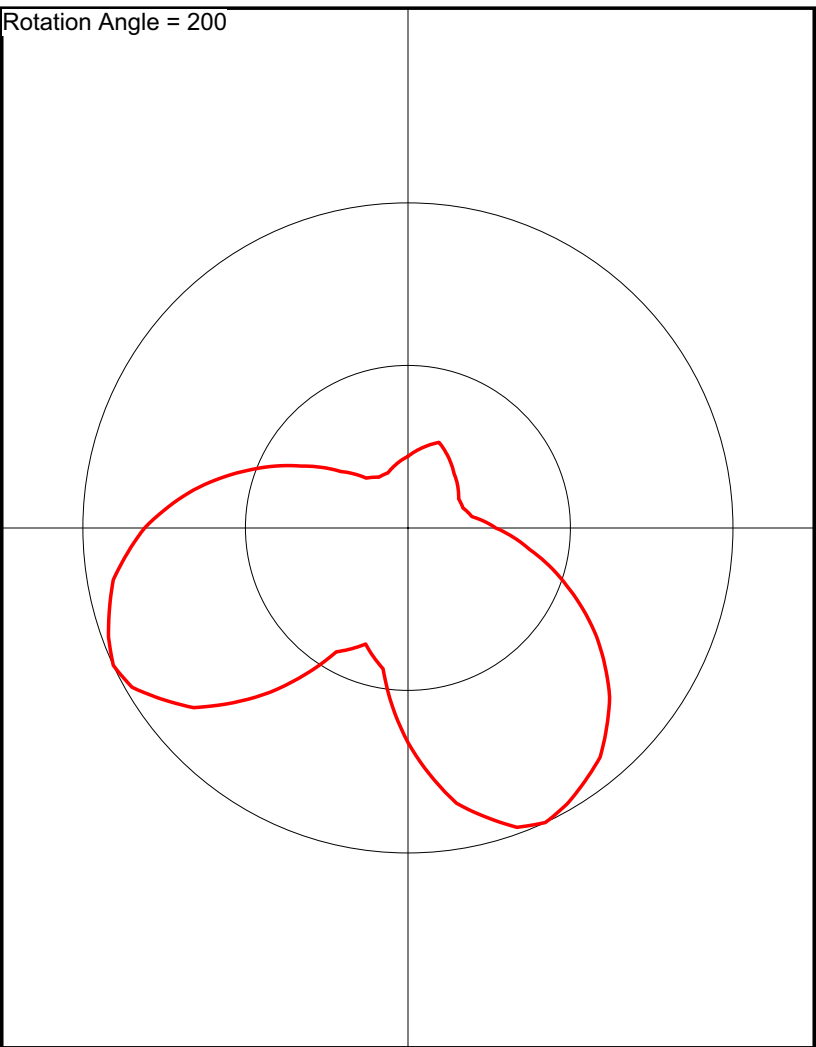
PR1214-A

KYMA-DT - Proposed Directional Antenna Pattern

Pre-Rotation Antenna Pattern....

Azimuth (deg)	Effective Field
0.0	0.380
10.0	0.440
20.0	0.660
30.0	0.860
40.0	0.980
45.0	1.000
50.0	0.980
60.0	0.920
70.0	0.810
80.0	0.670
90.0	0.520
100.0	0.380
110.0	0.270
120.0	0.200
130.0	0.180
140.0	0.180
150.0	0.200
160.0	0.220
170.0	0.250
180.0	0.280
190.0	0.250
200.0	0.220
210.0	0.200
220.0	0.180
230.0	0.180
240.0	0.200
250.0	0.270
260.0	0.380
270.0	0.520
280.0	0.670
290.0	0.810
300.0	0.920
310.0	0.980
315.0	1.000
320.0	0.980
330.0	0.860
340.0	0.660
350.0	0.440

Rotation Angle = 200



# VERTICAL RADIATION PATTERN

Angle	Relative Field	ERP dBk.
-4.00	0.200	-0.52
-3.50	0.295	2.86
-3.00	0.400	5.50
-2.50	0.520	7.78
-2.00	0.620	9.31
-1.50	0.730	10.73
-1.00	0.820	11.74
-0.50	0.900	12.55
0.00	0.945	12.97
0.50	0.990	13.38
1.00	1.000	13.46
1.50	0.990	13.38
2.00	0.960	13.11
2.50	0.900	12.55
3.00	0.820	11.74
3.50	0.730	10.73
4.00	0.638	9.56
4.50	0.539	8.10
5.00	0.438	6.29
5.50	0.360	4.59
6.00	0.282	2.47
6.50	0.228	0.62
7.00	0.215	0.11
7.50	0.220	0.31
8.00	0.236	0.92
8.50	0.242	1.14
9.00	0.246	1.28
9.50	0.242	1.14
10.00	0.230	0.70

Note: Erel Same for all values of azimuth.  
ERP dBK at tip of main lobe.

