

Azimuth Plane Pattern
Composite Relative Field
Antenna Model: PSIFMT-1A-3DB
Type: Directional Translator
Polarization: Circular
Number of Bays: One
Gain: .71 (-1.47 dB)
Date: 11-1-2011

Propagation Systems Inc.
PO Box 113
Ebensburg, PA 15931



Composite Azimuth Pattern Tabulation

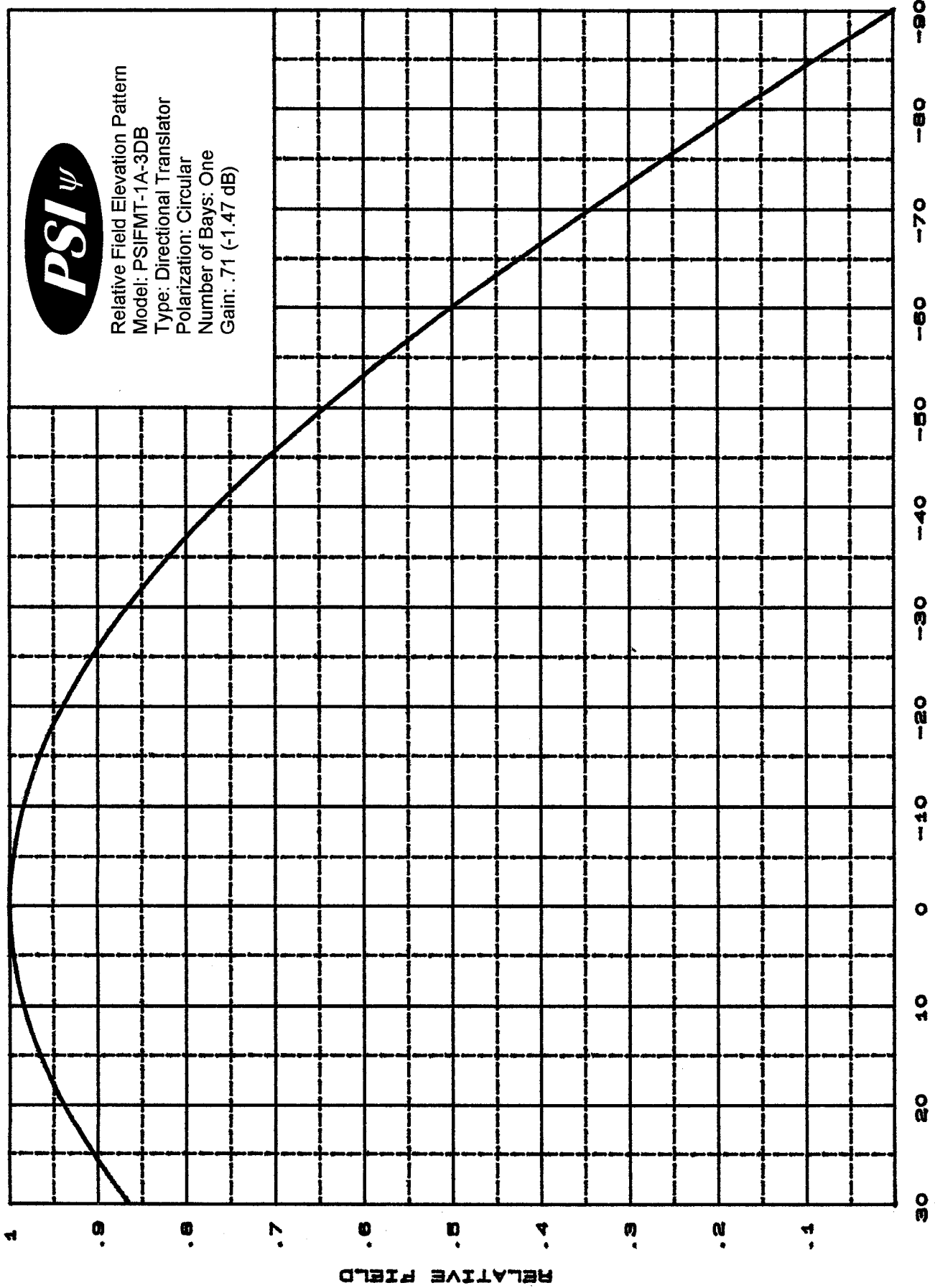
Antenna Model: PSIFMT-1A-3DB

Gain: .71 (-1.47 dB)

Angle	Relative Field	Power Gain	Gain (dBd)
0	0.949	0.64	-1.94
10	0.965	0.66	-1.80
20	0.968	0.67	-1.77
30	0.957	0.65	-1.87
40	0.962	0.66	-1.82
50	0.967	0.66	-1.78
60	0.977	0.68	-1.69
70	0.975	0.67	-1.71
80	0.969	0.67	-1.76
90	0.932	0.62	-2.10
100	0.822	0.48	-3.19
110	0.730	0.38	-4.22
120	0.620	0.27	-5.64
130	0.501	0.18	-7.49
140	0.446	0.14	-8.50
150	0.436	0.13	-8.70
160	0.521	0.19	-7.15
170	0.662	0.31	-5.07
180	0.699	0.35	-4.60
190	0.644	0.29	-5.31
200	0.523	0.19	-7.12
210	0.449	0.14	-8.44
220	0.489	0.17	-7.70
230	0.556	0.22	-6.59
240	0.644	0.29	-5.31
250	0.784	0.44	-3.60
260	0.893	0.57	-2.47
270	0.964	0.66	-1.81
280	0.996	0.70	-1.52
290	0.993	0.70	-1.55
300	1.000	0.71	-1.49
310	0.991	0.70	-1.57
320	0.973	0.67	-1.73
330	0.954	0.65	-1.90
340	0.938	0.62	-2.04
350	0.935	0.62	-2.07



Relative Field Elevation Pattern
Model: PSIFMT-1A-3DB
Type: Directional Translator
Polarization: Circular
Number of Bays: One
Gain: .71 (-1.47 dB)



DEGREES BELOW HORIZONTAL



Propagation Systems Inc.
Elevation Pattern Tabulation
Antenna Model: PSIFMT-1A-3DB

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-90.0	0.001	-60.000	-50.0	0.643	-3.839	-10.0	0.985	-0.134
-89.0	0.017	-35.177	-49.0	0.656	-3.663	-9.0	0.988	-0.109
-88.0	0.035	-29.156	-48.0	0.669	-3.490	-8.0	0.990	-0.086
-87.0	0.052	-25.634	-47.0	0.682	-3.325	-7.0	0.992	-0.066
-86.0	0.070	-23.136	-46.0	0.695	-3.166	-6.0	0.994	-0.049
-85.0	0.087	-21.198	-45.0	0.707	-3.012	-5.0	0.996	-0.034
-84.0	0.104	-19.626	-44.0	0.719	-2.862	-4.0	0.997	-0.022
-83.0	0.122	-18.286	-43.0	0.731	-2.719	-3.0	0.998	-0.013
-82.0	0.139	-17.134	-42.0	0.743	-2.580	-2.0	0.999	-0.007
-81.0	0.156	-16.117	-41.0	0.755	-2.445	-1.0	1.000	-0.003
-80.0	0.174	-15.207	-40.0	0.766	-2.316	0.0	1.000	0.000
-79.0	0.191	-14.390	-39.0	0.777	-2.190	1.0	1.000	-0.003
-78.0	0.208	-13.644	-38.0	0.788	-2.071	2.0	0.999	-0.007
-77.0	0.225	-12.962	-37.0	0.798	-1.955	3.0	0.998	-0.013
-76.0	0.242	-12.330	-36.0	0.809	-1.842	4.0	0.997	-0.022
-75.0	0.259	-11.741	-35.0	0.819	-1.733	5.0	0.996	-0.034
-74.0	0.276	-11.194	-34.0	0.829	-1.630	6.0	0.994	-0.049
-73.0	0.292	-10.684	-33.0	0.839	-1.529	7.0	0.992	-0.066
-72.0	0.309	-10.203	-32.0	0.848	-1.432	8.0	0.990	-0.086
-71.0	0.325	-9.750	-31.0	0.857	-1.339	9.0	0.988	-0.109
-70.0	0.342	-9.320	-30.0	0.866	-1.251	10.0	0.985	-0.134
-69.0	0.358	-8.914	-29.0	0.875	-1.164	11.0	0.982	-0.162
-68.0	0.375	-8.530	-28.0	0.883	-1.082	12.0	0.978	-0.193
-67.0	0.391	-8.165	-27.0	0.891	-1.003	13.0	0.974	-0.227
-66.0	0.407	-7.815	-26.0	0.899	-0.928	14.0	0.970	-0.263
-65.0	0.423	-7.482	-25.0	0.906	-0.855	15.0	0.966	-0.301
-64.0	0.438	-7.164	-24.0	0.913	-0.786	16.0	0.961	-0.344
-63.0	0.454	-6.860	-23.0	0.920	-0.720	17.0	0.956	-0.389
-62.0	0.469	-6.569	-22.0	0.927	-0.657	18.0	0.951	-0.436
-61.0	0.485	-6.291	-21.0	0.933	-0.598	19.0	0.945	-0.487
-60.0	0.500	-6.023	-20.0	0.940	-0.542	20.0	0.940	-0.540
-59.0	0.515	-5.764	-19.0	0.945	-0.487	21.0	0.933	-0.598
-58.0	0.530	-5.517	-18.0	0.951	-0.437	22.0	0.927	-0.657
-57.0	0.545	-5.279	-17.0	0.956	-0.389	23.0	0.920	-0.720
-56.0	0.559	-5.050	-16.0	0.961	-0.344	24.0	0.913	-0.786
-55.0	0.573	-4.830	-15.0	0.966	-0.301	25.0	0.906	-0.855
-54.0	0.588	-4.616	-14.0	0.970	-0.263	26.0	0.899	-0.927
-53.0	0.602	-4.413	-13.0	0.974	-0.227	27.0	0.891	-1.003
-52.0	0.616	-4.214	-12.0	0.978	-0.193	28.0	0.883	-1.082
-51.0	0.629	-4.024	-11.0	0.982	-0.162	29.0	0.875	-1.164