

Maximum Envelope
Azimuth Plane Pattern
Antenna: PSIFMP-2-DA Custom
Type: 2-Bay Directional FM Antenna
ERP: .2 kW (-6.99 dBk)
RMS Envelope: .530
Frequency: 100.7 MHz
W264BT Edison, NJ

Propagation Systems Inc.
PO Box 113
Ebensburg, PA 15931

Maximum Envelope Tabulation

Antenna: PSIFMP-2-DA Custom

Rahul Walia

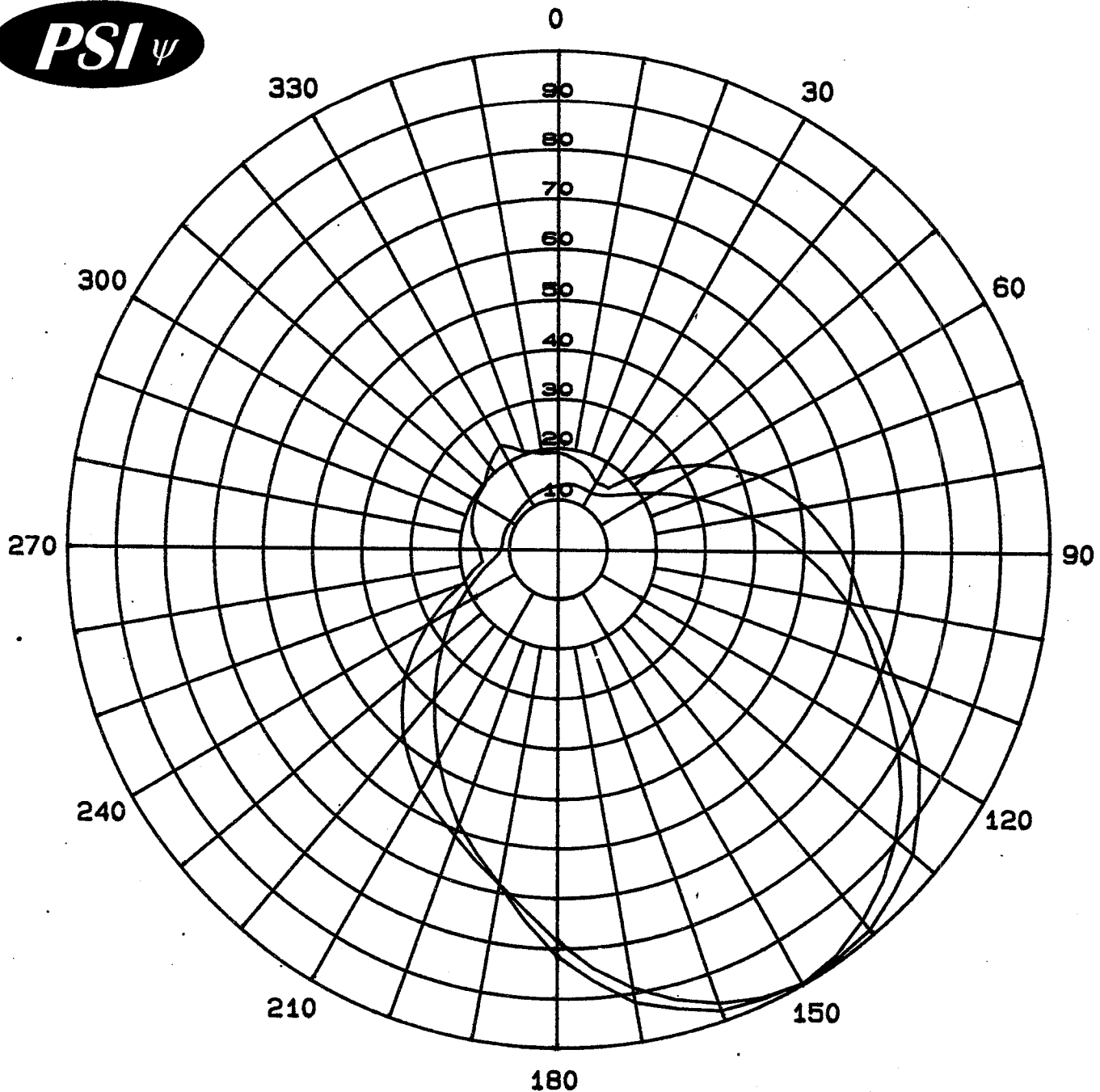
Station: W264BT

Frequency: 100.7 MHz

Location: Edison, NJ

Maximum ERP: .20 kW (-6.99 dBk)

Angle	Relative Field	ERP (kW)	ERP (dBk)
0	0.191	0.007	-21.37
10	0.182	0.007	-21.79
20	0.171	0.006	-22.33
30	0.153	0.005	-23.30
40	0.159	0.005	-22.96
50	0.233	0.011	-19.64
60	0.339	0.023	-16.39
70	0.434	0.038	-14.24
80	0.509	0.052	-12.86
90	0.575	0.066	-11.80
100	0.629	0.079	-11.02
110	0.722	0.104	-9.82
120	0.849	0.144	-8.41
130	0.944	0.178	-7.49
140	0.991	0.196	-7.07
150	1.000	0.200	-6.99
160	0.982	0.193	-7.15
170	0.922	0.170	-7.70
180	0.816	0.133	-8.76
190	0.683	0.093	-10.30
200	0.611	0.075	-11.27
210	0.557	0.062	-12.07
220	0.489	0.048	-13.20
230	0.407	0.033	-14.80
240	0.305	0.019	-17.30
250	0.204	0.008	-20.80
260	0.155	0.005	-23.18
270	0.159	0.005	-22.96
280	0.176	0.006	-22.08
290	0.186	0.007	-21.60
300	0.192	0.007	-21.32
310	0.195	0.008	-21.19
320	0.217	0.009	-20.26
330	0.236	0.011	-19.53
340	0.204	0.008	-20.80
350	0.191	0.007	-21.37



Maximum Envelope and
Composite Pattern

Antenna: PSIFMP-2-DA Custom
Type: 2-Bay Directional FM Antenna

ERP: .2 kW (-6.99 dBk)

RMS Envelope: .530

RMS Composite: .493

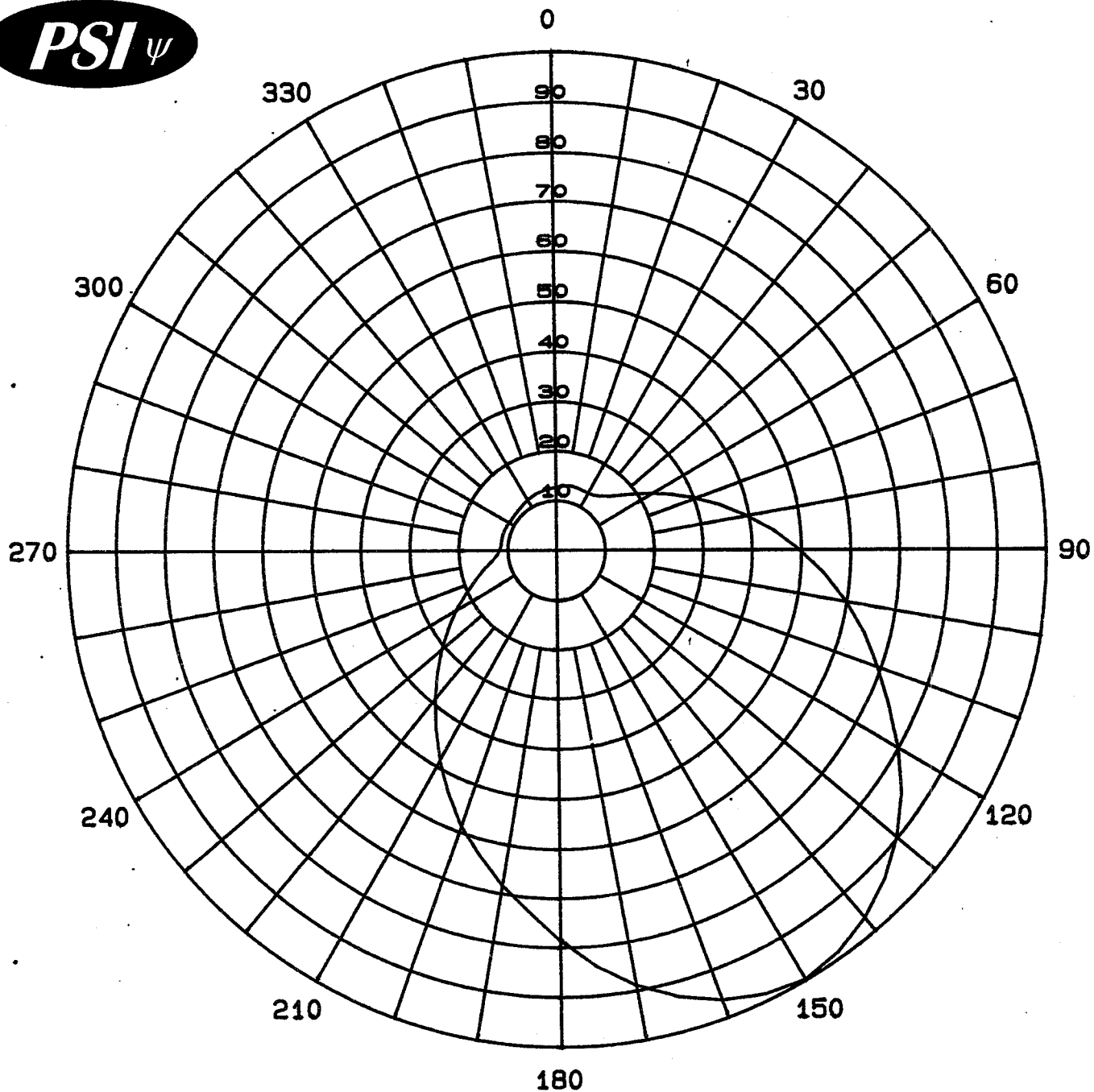
Frequency: 100.7 MHz

Propagation Systems Inc.

PO Box 113

Ebensburg, PA 15931

W264BT Edison, NJ



Calculated Composite
Azimuth Plane Pattern
Antenna: PSIFMP-2-DA Custom
Type: 2-Bay Directional FM Antenna
ERP: .2 kW (-6.99 dBk)
RMS Composite: .493
Frequency: 100.7 MHz
W264BT Edison, NJ

Propagation Systems Inc.
PO Box 113
Ebensburg, PA 15931

Composite Pattern Tabulation

Antenna: PSIFMP-2-DA Custom

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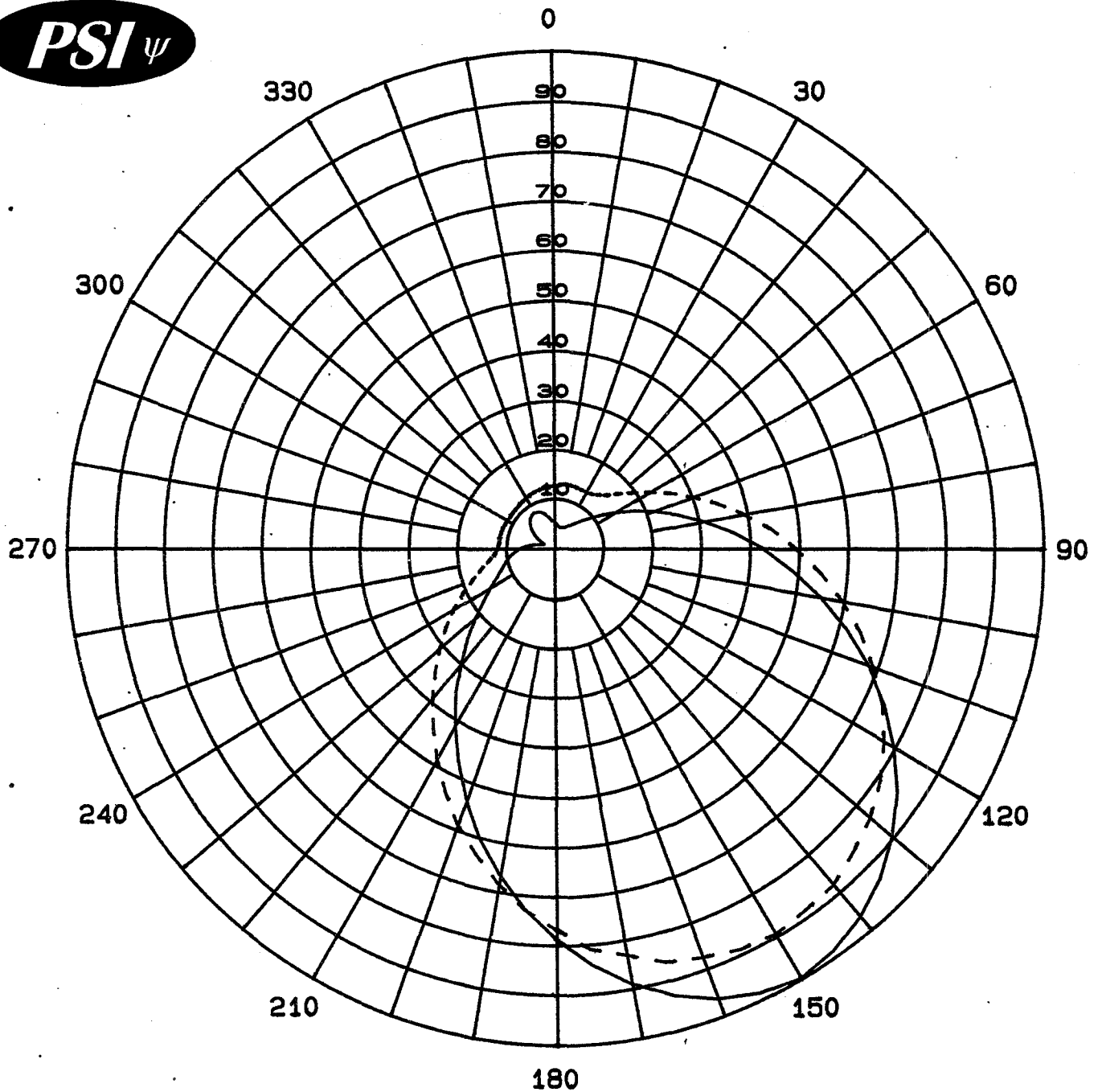
Station: W264BT

Frequency: 100.7 MHz

Location: Edison, NJ

Maximum ERP: .20 kW (-6.99 dBk)

Angle	Relative Field	ERP (kW)	ERP (dBk)
0	0.126	0.003	-24.98
10	0.131	0.003	-24.64
20	0.132	0.003	-24.58
30	0.131	0.003	-24.64
40	0.141	0.004	-24.01
50	0.170	0.006	-22.38
60	0.226	0.010	-19.91
70	0.302	0.018	-17.39
80	0.393	0.031	-15.10
90	0.493	0.049	-13.13
100	0.597	0.071	-11.47
110	0.691	0.095	-10.20
120	0.799	0.128	-8.94
130	0.898	0.161	-7.92
140	0.967	0.187	-7.28
150	1.000	0.200	-6.99
160	0.966	0.187	-7.29
170	0.892	0.159	-7.98
180	0.787	0.124	-9.07
190	0.683	0.093	-10.30
200	0.587	0.069	-11.62
210	0.486	0.047	-13.26
220	0.391	0.031	-15.15
230	0.308	0.019	-17.22
240	0.239	0.011	-19.42
250	0.178	0.006	-21.98
260	0.135	0.004	-24.38
270	0.116	0.003	-25.70
280	0.114	0.003	-25.85
290	0.113	0.003	-25.93
300	0.110	0.002	-26.16
310	0.110	0.002	-26.16
320	0.112	0.003	-26.01
330	0.116	0.003	-25.70
340	0.120	0.003	-25.41
350	0.123	0.003	-25.19



Calculated Relative Field
Azimuth Plane Pattern
Antenna: PSIFMP-2-DA Custom
Type: 2-Bay Directional FM Antenna
Gain H-pol (solid): 4.47 (6.5 dB)
Gain V-pol (dash): 3.59 (5.55 dB)
Frequency: 100.7 MHz
W264BT Edison, NJ

Propagation Systems Inc.
PO Box 113
Ebensburg, PA 15931

Calculated Relative Field Tabulation

Antenna: PSIFMP-2-DA Custom

Rahul Walia

Station: W264BT

Frequency: 100.7 MHz

Location: Edison, NJ

Horizontal Polarization

Angle	Relative Field	Power Gain	Gain (dB)
0	0.055	0.014	-18.69
10	0.045	0.009	-20.43
20	0.044	0.009	-20.63
30	0.049	0.011	-19.69
40	0.065	0.019	-17.24
50	0.094	0.039	-14.03
60	0.143	0.091	-10.39
70	0.216	0.209	-6.81
80	0.311	0.432	-3.64
90	0.426	0.811	-0.91
100	0.553	1.367	1.36
110	0.681	2.073	3.17
120	0.799	2.854	4.55
130	0.898	3.605	5.57
140	0.967	4.180	6.21
150	1.000	4.470	6.50
160	0.966	4.171	6.20
170	0.892	3.557	5.51
180	0.787	2.769	4.42
190	0.664	1.971	2.95
200	0.534	1.275	1.05
210	0.409	0.748	-1.26
220	0.298	0.397	-4.01
230	0.210	0.197	-7.05
240	0.149	0.099	-10.03
250	0.113	0.057	-12.44
260	0.092	0.038	-14.22
270	0.068	0.021	-16.85
280	0.040	0.007	-21.46
290	0.022	0.002	-26.65
300	0.040	0.007	-21.46
310	0.061	0.017	-17.79
320	0.076	0.026	-15.88
330	0.082	0.030	-15.22
340	0.077	0.027	-15.77
350	0.063	0.018	-17.51

Vertical Polarization

Angle	Relative Field	Power Gain	Gain (dB)
0	0.126	0.071	-11.49
10	0.131	0.077	-11.15
20	0.132	0.078	-11.09
30	0.131	0.077	-11.15
40	0.141	0.089	-10.51
50	0.170	0.129	-8.89
60	0.226	0.228	-6.41
70	0.302	0.408	-3.90
80	0.393	0.690	-1.61
90	0.493	1.086	0.36
100	0.597	1.593	2.02
110	0.691	2.134	3.29
120	0.776	2.692	4.30
130	0.840	3.154	4.99
140	0.882	3.477	5.41
150	0.896	3.589	5.55
160	0.877	3.438	5.36
170	0.833	3.102	4.92
180	0.768	2.637	4.21
190	0.683	2.085	3.19
200	0.587	1.540	1.88
210	0.486	1.056	0.24
220	0.391	0.683	-1.65
230	0.308	0.424	-3.73
240	0.239	0.255	-5.93
250	0.178	0.142	-8.49
260	0.135	0.081	-10.89
270	0.116	0.060	-12.21
280	0.114	0.058	-12.36
290	0.113	0.057	-12.44
300	0.110	0.054	-12.67
310	0.110	0.054	-12.67
320	0.112	0.056	-12.51
330	0.116	0.060	-12.21
340	0.120	0.064	-11.91
350	0.123	0.068	-11.70

ERP Tabulation

Antenna: PSIFMP-2-DA Custom

Rahul Walia

Station: W264BT

Frequency: 100.7 MHz

Location: Edison, NJ

Maximum ERP: 20 kW (-6.99 dBk)

Horizontal Polarization

Angle	Relative Field	ERP (kW)	ERP (dBk)
0	0.055	0.001	-32.18
10	0.045	0.000	-33.93
20	0.044	0.000	-34.12
30	0.049	0.000	-33.19
40	0.065	0.001	-30.73
50	0.094	0.002	-27.53
60	0.143	0.004	-23.88
70	0.216	0.009	-20.30
80	0.311	0.019	-17.13
90	0.426	0.036	-14.40
100	0.553	0.061	-12.14
110	0.681	0.093	-10.33
120	0.799	0.128	-8.94
130	0.898	0.161	-7.92
140	0.967	0.187	-7.28
150	1.000	0.200	-6.99
160	0.966	0.187	-7.29
170	0.892	0.159	-7.98
180	0.787	0.124	-9.07
190	0.664	0.088	-10.55
200	0.534	0.057	-12.44
210	0.409	0.033	-14.76
220	0.298	0.018	-17.51
230	0.210	0.009	-20.55
240	0.149	0.004	-23.53
250	0.113	0.003	-25.93
260	0.092	0.002	-27.71
270	0.068	0.001	-30.34
280	0.040	0.000	-34.95
290	0.022	0.000	-40.14
300	0.040	0.000	-34.95
310	0.061	0.001	-31.28
320	0.076	0.001	-29.37
330	0.082	0.001	-28.71
340	0.077	0.001	-29.26
350	0.063	0.001	-31.00

Vertical Polarization

Angle	Relative Field	ERP (kW)	ERP (dBk)
0	0.126	0.003	-24.98
10	0.131	0.003	-24.64
20	0.132	0.003	-24.58
30	0.131	0.003	-24.64
40	0.141	0.004	-24.01
50	0.170	0.006	-22.38
60	0.226	0.010	-19.91
70	0.302	0.018	-17.39
80	0.393	0.031	-15.10
90	0.493	0.049	-13.13
100	0.597	0.071	-11.47
110	0.691	0.095	-10.20
120	0.776	0.120	-9.19
130	0.840	0.141	-8.50
140	0.882	0.156	-8.08
150	0.896	0.161	-7.94
160	0.877	0.154	-8.13
170	0.833	0.139	-8.58
180	0.768	0.118	-9.28
190	0.683	0.093	-10.30
200	0.587	0.069	-11.62
210	0.486	0.047	-13.26
220	0.391	0.031	-15.15
230	0.308	0.019	-17.22
240	0.239	0.011	-19.42
250	0.178	0.006	-21.98
260	0.135	0.004	-24.38
270	0.116	0.003	-25.70
280	0.114	0.003	-25.85
290	0.113	0.003	-25.93
300	0.110	0.002	-26.16
310	0.110	0.002	-26.16
320	0.112	0.003	-26.01
330	0.116	0.003	-25.70
340	0.120	0.003	-25.41
350	0.123	0.003	-25.19