

## FIGURE 1-A

### Proposed Daytime Directional Antenna Information

#### Station Information:

Call: KTNO.P (B)  
Freq: 1440 kHz  
UNIVERSITY PARK, TX, US  
Lat: 32-45-02 N  
Lng: 096-43-22 W  
Power: 50 kW  
Theo RMS: 2393 mV/m @ 1km

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swrch	TL Swrch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	124.8	0	0	0.0	0.0	0.0	0.0
2	1.280	17.8	127.9	84.0	119.8	0	0	0.0	0.0	0.0	0.0
3	2.720	132.4	137.3	154.9	90.0	0	0	0.0	0.0	0.0	0.0
4	2.030	-86.6	226.0	154.7	119.8	0	0	0.0	0.0	0.0	0.0
5	0.700	8.2	147.6	222.4	123.0	0	0	0.0	0.0	0.0	0.0

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 Loss Resistance: 1.0 Ohm      K-factor: 711.9 mV/m@1km  
 Theoretical RMS: 2393 mV/m@1km      Erss: 2725 mV/m@1km  
 Standard RMS: 2514 mV/m@1km      Q-factor: 70.7 mV/m@1km

## FIGURE 1-B

### Proposed Daytime Standard Horizontal Plane Pattern (AT ONE KM)

#### AM Radiation Report

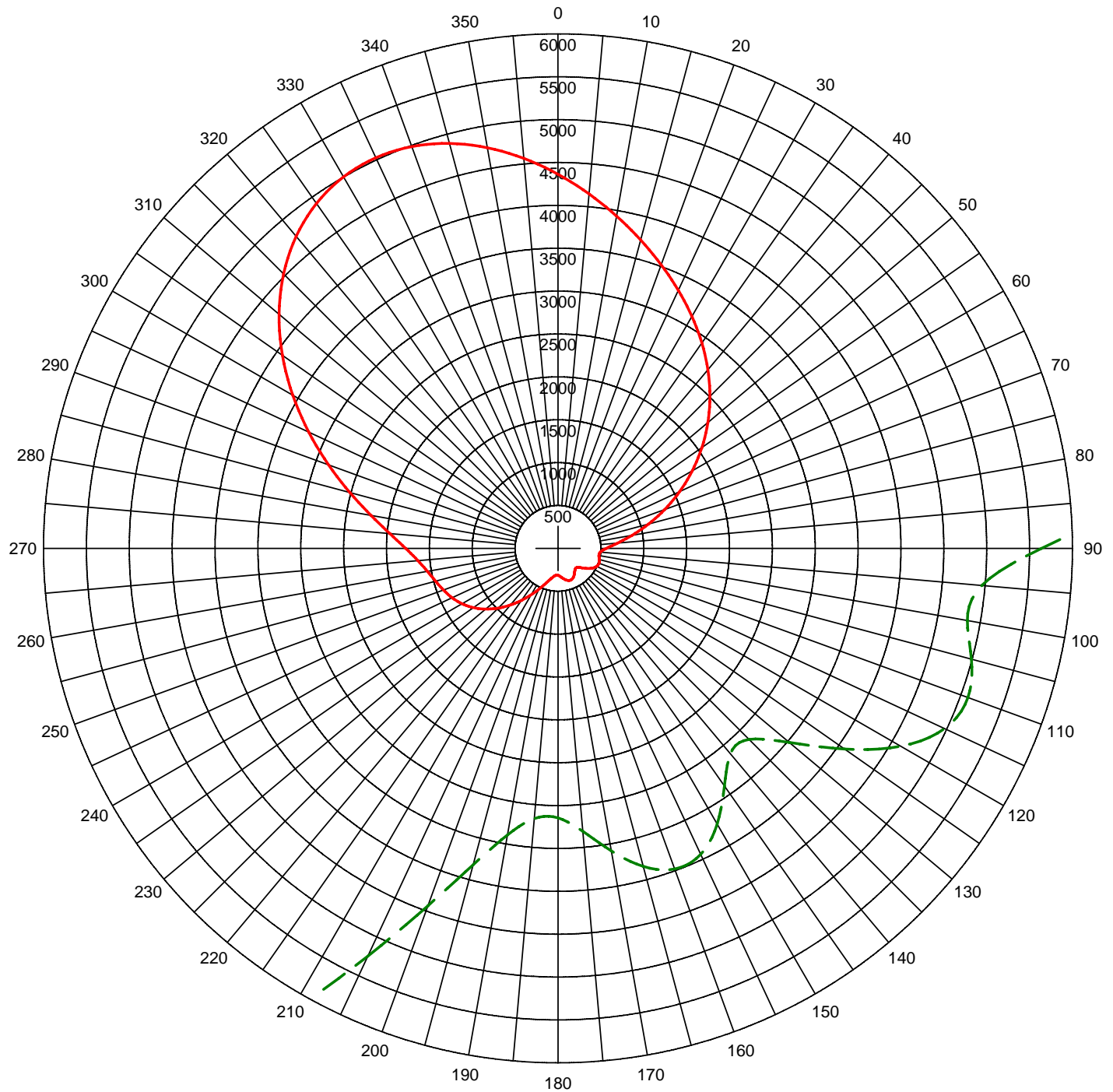
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Freq: 1440 kHz  
UNIVERSITY PARK, TX, US  
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#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
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3	2.720	132.4	137.3	154.9	90.0	0	0	0.0	0.0	0.0	0.0
4	2.030	-86.6	226.0	154.7	119.8	0	0	0.0	0.0	0.0	0.0
5	0.700	8.2	147.6	222.4	123.0	0	0	0.0	0.0	0.0	0.0

#### Standard Horizontal Plane Pattern

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	4362.99	120.0	461.69	240.0	1291.75
5.0	4149.80	125.0	408.08	245.0	1362.35
10.0	3934.70	130.0	352.11	250.0	1421.51
15.0	3723.74	135.0	315.18	255.0	1478.25
20.0	3519.31	140.0	312.78	260.0	1545.86
25.0	3320.43	145.0	338.49	265.0	1640.42
30.0	3123.72	150.0	371.28	270.0	1777.53
35.0	2924.78	155.0	393.77	275.0	1967.99
40.0	2719.56	160.0	397.98	280.0	2214.61
45.0	2505.37	165.0	384.03	285.0	2511.89
50.0	2281.28	170.0	358.27	290.0	2847.92
55.0	2048.18	175.0	331.17	295.0	3206.89
60.0	1808.40	180.0	314.43	300.0	3571.25
65.0	1565.55	185.0	316.43	305.0	3923.27
70.0	1324.54	190.0	339.41	310.0	4246.30
75.0	1092.12	195.0	382.01	315.0	4525.71
80.0	877.94	200.0	443.60	320.0	4749.72
85.0	695.89	205.0	524.72	325.0	4910.06
90.0	563.97	210.0	624.58	330.0	5002.39
95.0	496.23	215.0	739.40	335.0	5026.49
100.0	484.85	220.0	862.55	340.0	4986.16
105.0	499.11	225.0	986.06	345.0	4888.73
110.0	508.81	230.0	1102.25	350.0	4744.38
115.0	497.50	235.0	1205.19	355.0	4565.01

# DAYTIME STANDARD HORIZONTAL PLANE PATTERN



Theo RMS: 2393 mV/m@1km  
 Std RMS: 2514 mV/m@1km  
 Q: 70.7 mV/m@1km

Standard Horizontal Plane Pattern

— Pattern (mV/m @ 1km)  
 - - - Pattern X10

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	124.8	0	0	0.0	0.0	0.0	0.0
2	1.280	17.8	127.9	84.0	119.8	0	0	0.0	0.0	0.0	0.0
3	2.720	132.4	137.3	154.9	90.0	0	0	0.0	0.0	0.0	0.0
4	2.030	-86.6	226.0	154.7	119.8	0	0	0.0	0.0	0.0	0.0
5	0.700	8.2	147.6	222.4	123.0	0	0	0.0	0.0	0.0	0.0

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 Freq: 1440 kHz  
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 Theo RMS: 2393 mV/m @ 1km



**FIGURE 1-C**  
**JUNE 2005**