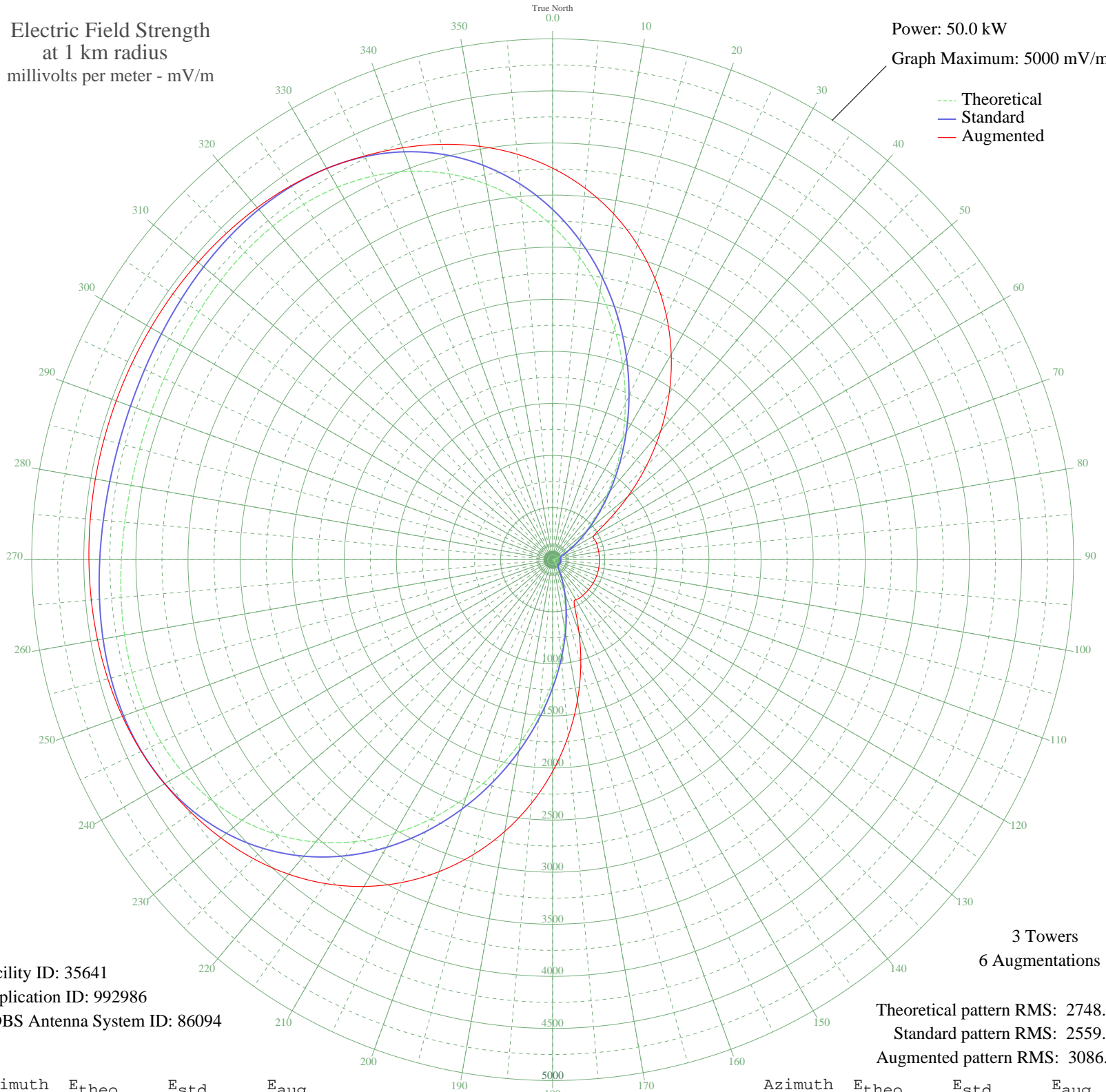


**KSTP ST. PAUL, MN BL-20040503AHC 1500 kHz**

**Nighttime**

Electric Field Strength  
at 1 km radius  
millivolts per meter - mV/m

Power: 50.0 kW  
Graph Maximum: 5000 mV/m



Facility ID: 35641  
Application ID: 992986  
CDBS Antenna System ID: 86094

3 Towers  
6 Augmentations

Theoretical pattern RMS: 2748.76  
Standard pattern RMS: 2559.55  
Augmented pattern RMS: 3086.12

Azimuth	Etheo	Estd	Eaug
0	3200.77	3361.63	3757.98
5	2921.03	3067.98	3579.37
10	2616.77	2748.61	3371.02
15	2296.82	2412.80	3134.09
20	1971.11	2071.00	2870.78
25	1649.99	1734.08	2583.80
30	1343.37	1412.49	2276.00
35	1060.01	1115.49	1950.38
40	806.90	850.50	1613.78
45	588.86	622.74	1273.57
50	408.32	435.12	940.72
55	265.44	288.43	641.09
60	158.30	182.04	453.51
65	83.31	114.73	447.02
70	35.69	83.17	450.00
75	9.99	74.98	448.58
80	0.51	74.25	448.53
85	1.78	74.27	448.64
90	8.86	74.83	448.85
95	17.61	76.51	449.25
100	24.83	78.69	449.71
105	28.45	80.03	449.98
110	27.52	79.67	449.91
115	22.28	77.85	449.53
120	14.14	75.72	449.07
125	5.62	74.48	448.75
130	0.32	74.25	448.59
135	2.72	74.30	448.51
140	18.01	76.62	448.84
145	51.79	92.03	450.12
150	109.73	137.07	444.02
155	197.06	219.83	501.46
160	318.15	342.21	737.09
165	475.97	505.25	1043.35
170	671.65	709.14	1371.40
175	904.15	952.26	1703.90

The theoretical pattern is used to create the standard pattern. Augmentations (if any) expand the standard pattern in specified directions. See Sections 73.150 and 73.152 of the FCC's Rules.

AM coverage may not mirror the pattern shown here. Additional factors such as ground conductivity or skywave propagation affect how far the AM signal will travel.

Patterns for stations outside the USA are based on notified parameters.

AM directional patterns created before 1982 used units of 1 mV/m at 1 mile, not one kilometer. The pattern values on such plots at 1 mile will be 0.62137 of the values listed here. Measured pattern values may vary from values shown here.

Plot is best printed on 11" by 17" or larger paper.

17 Oct 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	Etheo	Estd	Eaug
180	1170.07	1230.81	2032.42
185	1463.68	1538.66	2349.19
190	1777.23	1867.57	2649.27
195	2101.42	2207.74	2929.66
200	2426.06	2548.44	3187.21
205	2740.88	2878.88	3418.93
210	3036.30	3188.98	3622.44
215	3304.15	3470.15	3796.58
220	3538.23	3715.88	3941.78
225	3734.64	3922.08	4060.28
230	3891.91	4087.18	4156.05
235	4010.84	4212.03	4234.31
240	4094.24	4299.60	4300.78
245	4146.49	4354.44	4356.66
250	4172.98	4382.25	4394.92
255	4179.67	4389.28	4419.71
260	4172.60	4381.86	4435.28
265	4157.47	4365.98	4444.93
270	4139.36	4346.96	4450.94
275	4122.47	4329.23	4454.69
280	4110.00	4316.14	4456.89
285	4104.06	4309.90	4457.83
290	4105.57	4311.48	4457.59
295	4114.30	4320.65	4456.17
300	4128.85	4335.93	4453.40
305	4146.67	4354.64	4448.87
310	4164.15	4372.99	4441.61
315	4176.71	4386.17	4429.93
320	4178.98	4388.56	4411.12
325	4165.10	4373.98	4381.50
330	4129.00	4336.08	4336.50
335	4064.89	4268.78	4275.76
340	3967.72	4166.77	4207.72
345	3833.69	4026.06	4127.48
350	3660.75	3844.50	4029.05
355	3448.96	3622.16	3907.17