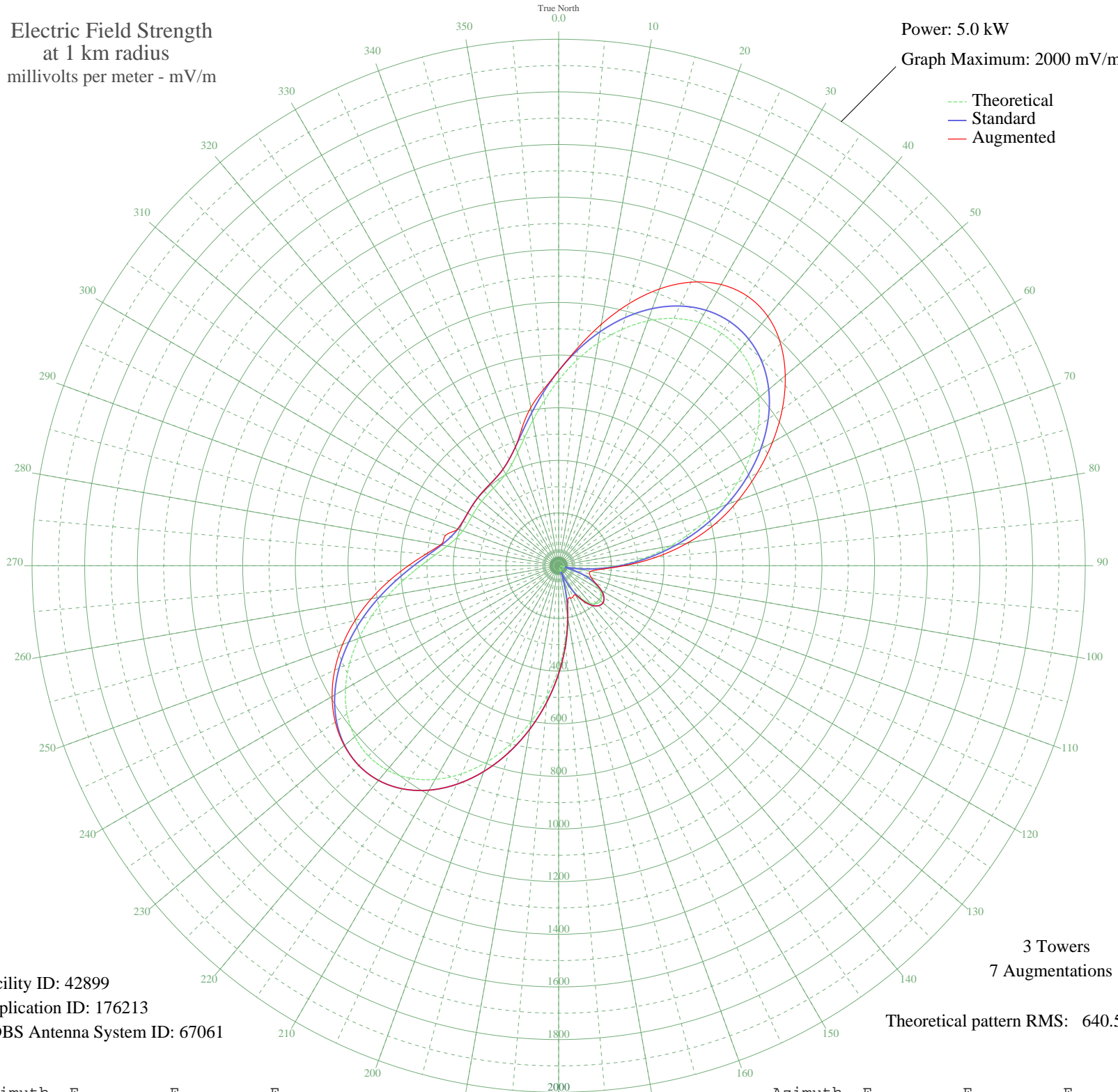


# KTOE MANKATO, MN BL-19920818AF 1420 kHz

Nighttime

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

Power: 5.0 kW  
Graph Maximum: 2000 mV/m



Facility ID: 42899  
Application ID: 176213  
CDBS Antenna System ID: 67061

3 Towers  
7 Augmentations  
Theoretical pattern RMS: 640.52

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	704.95	740.57	740.57
5	782.68	822.15	830.54
10	858.83	902.08	930.86
15	929.16	975.90	1030.20
20	989.59	1039.34	1118.71
25	1036.48	1088.56	1188.45
30	1066.78	1120.36	1233.51
35	1078.23	1132.38	1250.00
40	1069.54	1123.26	1236.15
45	1040.46	1092.73	1192.28
50	991.75	1041.60	1123.53
55	925.17	971.72	1036.95
60	843.29	885.76	937.65
65	749.28	787.09	831.41
70	646.71	679.45	725.00
75	539.29	566.74	615.67
80	430.63	452.77	496.86
85	324.08	341.09	372.08
90	222.59	234.89	248.76
95	128.64	137.10	158.04
100	44.36	52.16	123.32
105	30.30	39.54	121.54
110	91.53	98.93	131.95
115	140.43	149.31	153.66
120	176.28	186.58	186.58
125	198.79	210.04	210.04
130	207.82	219.47	219.47
135	203.34	214.79	214.79
140	185.36	196.04	196.04
145	153.98	163.38	163.38
150	109.47	117.31	128.17
155	52.36	59.78	129.66
160	19.11	30.88	130.58
165	98.50	106.05	133.92
170	188.60	199.41	199.41
175	286.51	301.75	301.75

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	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	389.73	409.89	409.89
185	495.34	520.63	520.63
190	600.00	630.44	630.44
195	700.12	735.50	735.50
200	792.01	831.94	831.94
205	872.13	916.03	916.03
210	937.30	984.44	984.44
215	984.96	1034.48	1034.48
220	1013.40	1064.33	1064.33
225	1021.83	1073.18	1073.18
230	1010.52	1061.31	1062.75
235	980.79	1030.10	1035.64
240	934.89	981.92	993.51
245	875.90	919.99	938.47
250	807.50	848.20	873.02
255	733.81	770.86	800.00
260	659.13	692.49	722.67
265	587.78	617.62	644.82
270	523.78	550.47	570.88
275	470.50	494.59	506.03
280	430.12	452.23	455.61
285	403.01	423.81	445.00
290	387.58	407.64	407.64
295	380.82	400.55	400.55
300	379.26	398.91	398.91
305	380.02	399.71	399.71
310	381.33	401.08	401.08
315	382.74	402.56	402.56
320	385.14	405.08	405.08
325	390.65	410.86	410.86
330	402.32	423.09	423.09
335	423.44	445.23	445.23
340	456.59	480.00	480.00
345	502.83	528.49	539.78
350	561.36	589.90	610.00
355	629.86	661.77	670.82