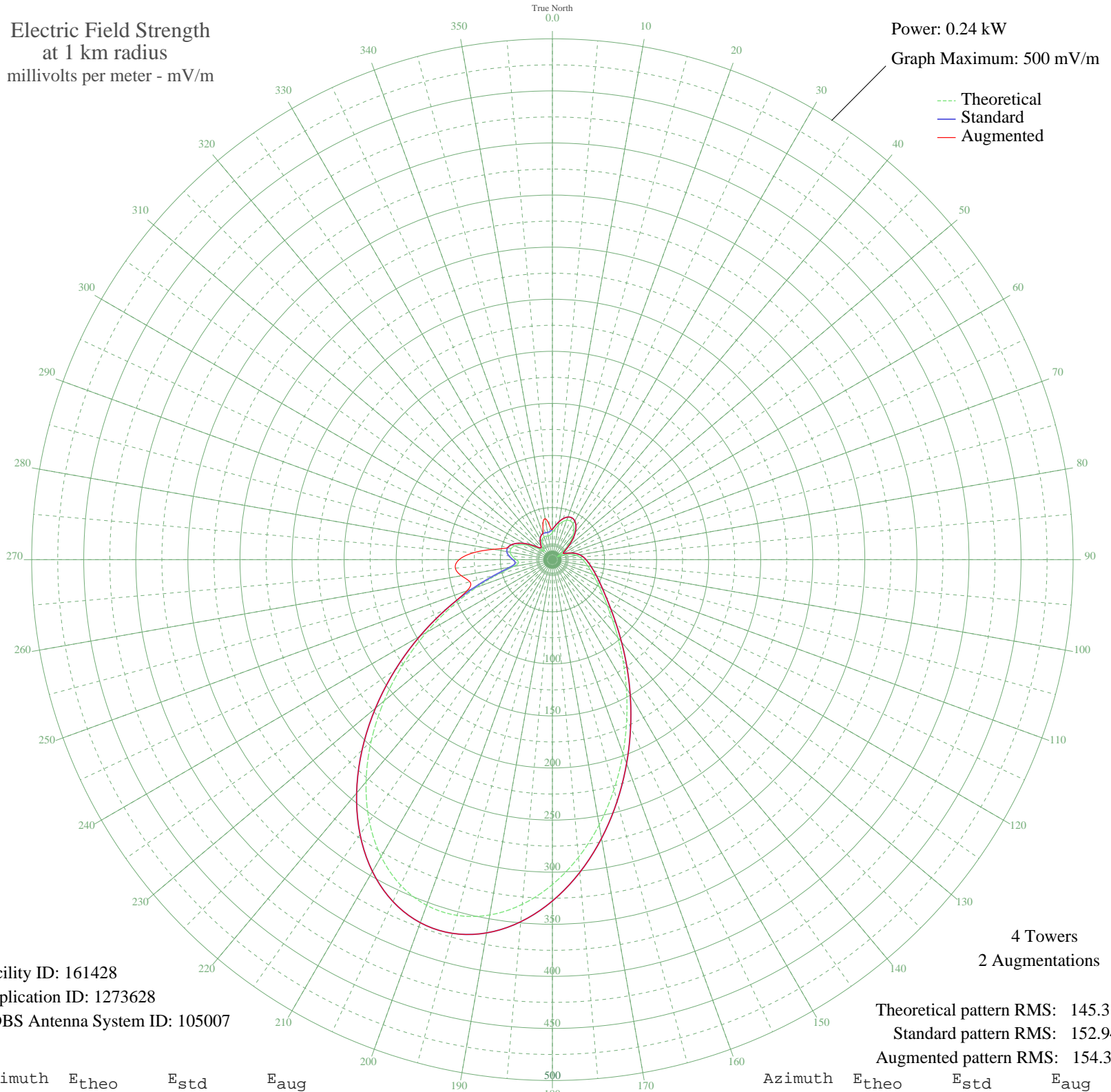


# WMIN SAUK RAPIDS, MN BL-20081006AJB 1010 kHz

Nighttime

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

Power: 0.24 kW  
Graph Maximum: 500 mV/m



Facility ID: 161428  
Application ID: 1273628  
CDBS Antenna System ID: 105007

Theoretical pattern RMS: 145.31  
Standard pattern RMS: 152.94  
Augmented pattern RMS: 154.37

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	26.00	29.25	29.25
5	29.63	32.84	32.84
10	33.86	37.07	37.07
15	37.67	40.93	40.93
20	40.24	43.54	43.54
25	40.99	44.31	44.31
30	39.64	42.93	42.93
35	36.18	39.42	39.42
40	30.86	34.06	34.06
45	24.12	27.42	27.42
50	16.62	20.37	20.37
55	9.35	14.37	14.37
60	5.57	12.02	12.02
65	9.42	14.42	14.42
70	14.87	18.81	18.81
75	19.63	23.13	23.13
80	23.46	26.77	26.77
85	26.50	29.74	29.74
90	29.11	32.32	32.32
95	31.66	34.86	34.86
100	34.47	37.69	37.69
105	37.75	41.01	41.01
110	41.62	44.95	44.95
115	46.24	49.67	49.67
120	51.91	55.51	55.51
125	59.19	63.04	63.04
130	68.82	73.02	73.02
135	81.52	86.24	86.24
140	97.87	103.30	103.30
145	118.06	124.41	124.41
150	141.92	149.39	149.39
155	168.90	177.66	177.66
160	198.13	208.30	208.30
165	228.47	240.12	240.12
170	258.54	271.68	271.68
175	286.87	301.39	301.39

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	311.89	327.65	327.65
185	332.15	348.91	348.91
190	346.35	363.82	363.82
195	353.52	371.35	371.35
200	353.06	370.86	370.86
205	344.79	362.18	362.18
210	329.03	345.64	345.64
215	306.51	322.00	322.00
220	278.35	292.46	292.46
225	245.97	258.49	258.49
230	210.96	221.76	221.76
235	174.99	184.03	184.03
240	139.68	147.04	147.04
245	106.62	112.45	112.45
250	77.36	81.90	81.90
255	53.65	57.30	57.30
260	37.95	41.21	41.21
265	32.53	35.73	35.73
270	34.73	37.95	37.95
275	38.69	41.96	41.96
280	41.13	44.45	44.45
285	41.10	44.41	44.41
290	38.57	41.83	41.83
295	33.94	37.15	37.15
300	27.83	31.05	31.05
305	21.05	24.47	24.47
310	14.83	18.78	18.78
315	11.39	15.91	15.91
320	12.62	16.90	16.90
325	16.30	20.08	20.08
330	19.85	23.34	23.34
335	22.25	25.61	25.61
340	23.31	26.64	26.64
345	23.36	26.68	26.68
350	23.18	26.50	26.50
355	23.81	27.11	27.11

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.

10 Nov 2011

Prepared by Audio Division, Media Bureau  
Federal Communications Commission