

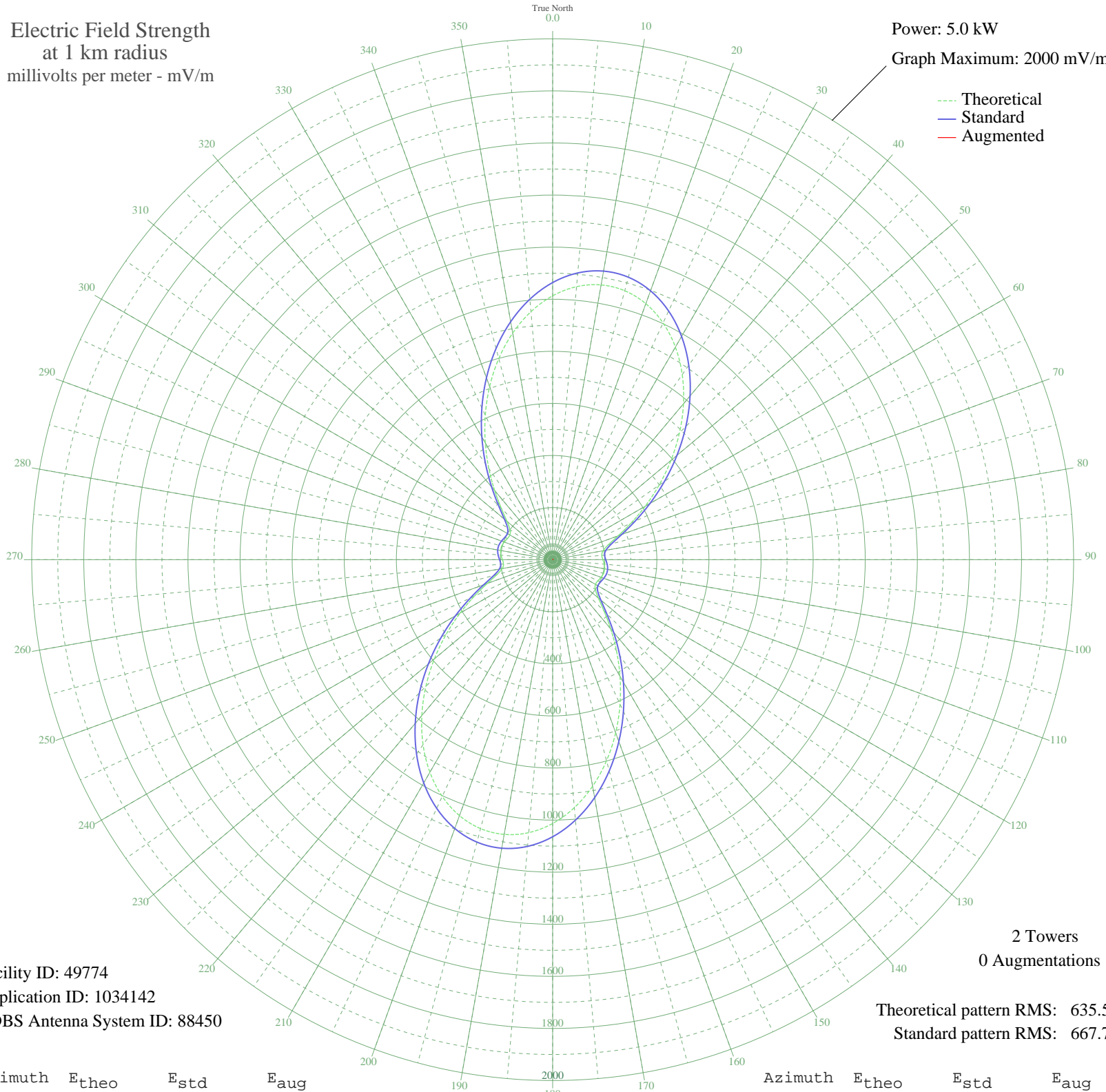
KNWC SIOUX FALLS, SD BL-20041202AGN 1270 kHz

Daytime

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

Power: 5.0 kW
Graph Maximum: 2000 mV/m

--- Theoretical
— Standard
— Augmented



Facility ID: 49774
Application ID: 1034142
CDBS Antenna System ID: 88450

2 Towers
0 Augmentations

Theoretical pattern RMS: 635.54
Standard pattern RMS: 667.73

Azimuth	E _{theo}	E _{std}	E _{aug}
0	1013.16	1064.07	
5	1052.29	1105.15	
10	1071.29	1125.10	
15	1069.16	1122.87	
20	1046.02	1098.57	
25	1003.07	1053.49	
30	942.52	989.93	
35	867.40	911.07	
40	781.35	820.76	
45	688.40	723.20	
50	592.73	622.81	
55	498.56	524.01	
60	410.06	431.20	
65	331.48	348.85	
70	267.21	281.55	
75	221.48	233.74	
80	196.47	207.63	
85	189.36	200.21	
90	192.72	203.71	
95	198.87	210.13	
100	202.80	214.23	
105	202.33	213.74	
110	197.70	208.91	
115	191.61	202.55	
120	189.68	200.54	
125	199.87	211.17	
130	228.99	241.58	
135	278.71	293.58	
140	346.19	364.26	
145	427.10	449.07	
150	517.07	543.43	
155	611.88	642.90	
160	707.34	743.08	
165	799.25	839.54	
170	883.42	927.89	
175	955.91	1003.98	

Azimuth	E _{theo}	E _{std}	E _{aug}
180	1013.16	1064.07	
185	1052.29	1105.15	
190	1071.29	1125.10	
195	1069.16	1122.87	
200	1046.02	1098.57	
205	1003.07	1053.49	
210	942.52	989.93	
215	867.40	911.07	
220	781.35	820.76	
225	688.40	723.20	
230	592.73	622.81	
235	498.56	524.01	
240	410.06	431.20	
245	331.48	348.84	
250	267.21	281.55	
255	221.48	233.74	
260	196.47	207.63	
265	189.36	200.21	
270	192.72	203.71	
275	198.87	210.13	
280	202.80	214.23	
285	202.33	213.74	
290	197.70	208.91	
295	191.61	202.55	
300	189.68	200.54	
305	199.87	211.17	
310	228.99	241.58	
315	278.71	293.58	
320	346.19	364.26	
325	427.10	449.07	
330	517.07	543.43	
335	611.88	642.90	
340	707.34	743.08	
345	799.25	839.54	
350	883.42	927.89	
355	955.91	1003.98	

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.

04 Jul 2009

Prepared by Audio Division, Media Bureau
Federal Communications Commission