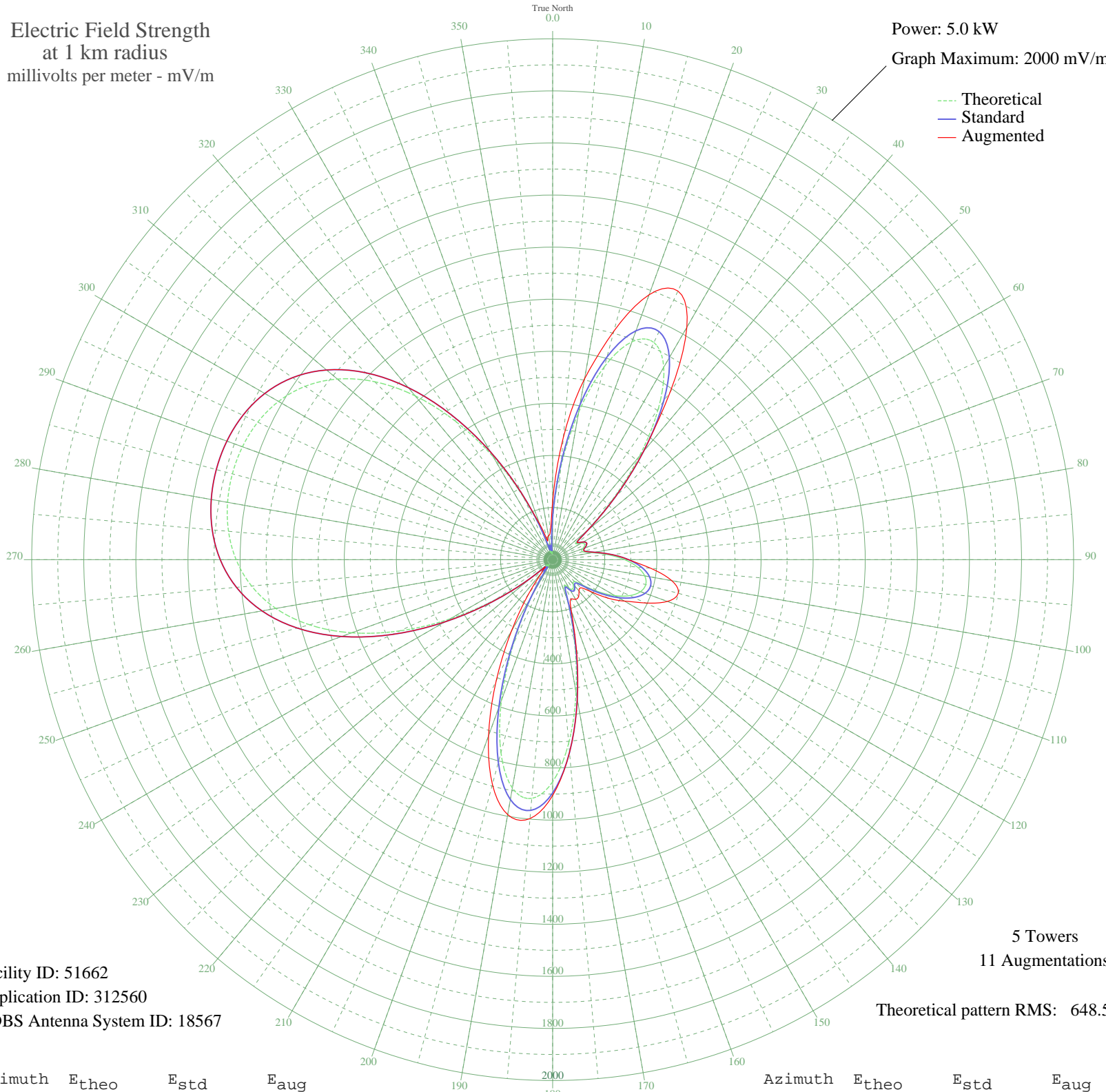


# KWLO WATERLOO, IA BL-- 1330 kHz

Nighttime

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

Power: 5.0 kW  
Graph Maximum: 2000 mV/m



Facility ID: 51662  
Application ID: 312560  
CDBS Antenna System ID: 18567

5 Towers  
11 Augmentations

Theoretical pattern RMS: 648.57

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	155.66	165.12	224.79
5	355.56	374.07	471.29
10	575.00	604.20	705.17
15	767.05	805.74	908.79
20	890.47	935.29	1082.45
25	920.14	966.43	1138.11
30	852.91	895.86	1030.34
35	707.18	742.91	787.36
40	516.75	543.09	543.09
45	322.20	339.12	339.12
50	166.88	176.79	176.79
55	107.21	114.99	114.99
60	127.40	135.82	135.82
65	135.98	144.69	144.69
70	122.66	130.92	130.92
75	118.64	126.76	126.76
80	154.22	163.62	163.62
85	214.76	226.72	226.72
90	276.59	291.36	291.36
95	326.80	343.94	377.70
100	358.93	377.61	464.42
105	369.94	389.14	498.90
110	358.93	377.61	468.78
115	326.80	343.94	393.54
120	276.59	291.36	318.09
125	214.76	226.72	255.82
130	154.22	163.62	190.59
135	118.64	126.76	152.89
140	122.66	130.92	157.33
145	135.98	144.69	173.35
150	127.40	135.82	175.75
155	107.21	114.99	166.73
160	166.88	176.79	209.03
165	322.20	339.12	349.70
170	516.75	543.09	545.05
175	707.18	742.91	742.91

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.

14 Nov 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	852.91	895.86	905.53
185	920.14	966.43	997.94
190	890.47	935.29	994.10
195	767.05	805.74	893.42
200	575.00	604.20	719.44
205	355.56	374.07	512.30
210	155.66	165.12	315.70
215	24.38	34.73	161.14
220	49.86	57.37	66.09
225	28.97	38.42	41.10
230	102.68	110.34	110.34
235	264.71	278.94	278.94
240	455.06	478.39	478.39
245	646.93	679.68	679.68
250	821.07	862.45	862.45
255	966.33	1014.92	1014.92
260	1078.89	1133.07	1133.07
265	1160.29	1218.53	1218.53
270	1215.19	1276.16	1276.16
275	1249.19	1311.86	1311.86
280	1267.33	1330.90	1330.90
285	1272.98	1336.84	1336.84
290	1267.33	1330.90	1330.90
295	1249.19	1311.86	1311.86
300	1215.19	1276.16	1276.16
305	1160.29	1218.53	1218.53
310	1078.89	1133.07	1133.07
315	966.33	1014.92	1014.92
320	821.07	862.44	862.44
325	646.93	679.68	679.68
330	455.05	478.38	478.38
335	264.71	278.93	278.93
340	102.68	110.34	144.19
345	28.97	38.42	73.77
350	49.86	57.37	93.28
355	24.38	34.74	106.79