

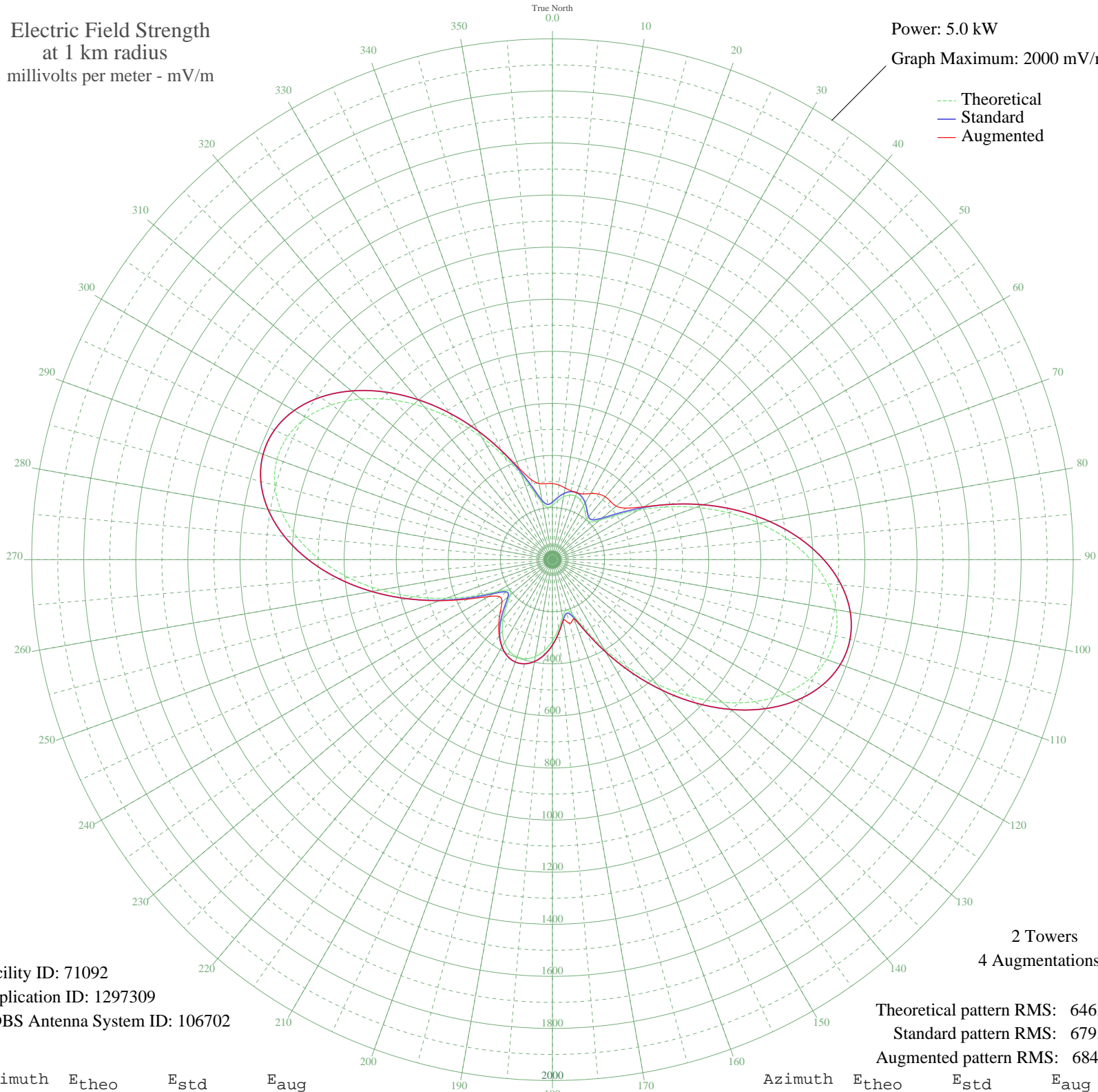
WTTN COLUMBUS, WI BL-20090213GY 1580 kHz

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: 71092
Application ID: 1297309
CDBS Antenna System ID: 106702

2 Towers
4 Augmentations
Theoretical pattern RMS: 646.50
Standard pattern RMS: 679.30
Augmented pattern RMS: 684.60

Azimuth	E _{theo}	E _{std}	E _{aug}
0	208.98	220.68	292.21
5	227.18	239.69	287.47
10	245.08	258.40	279.58
15	256.73	270.59	273.81
20	259.55	273.54	273.54
25	253.04	266.73	278.44
30	238.43	251.45	292.87
35	219.44	231.60	307.52
40	203.93	215.41	315.16
45	204.94	216.46	315.88
50	234.84	247.70	319.82
55	295.24	310.89	345.25
60	379.09	398.74	406.66
65	478.43	502.90	502.90
70	586.57	616.35	616.35
75	697.59	732.85	732.85
80	805.86	846.48	846.48
85	905.84	951.42	951.42
90	992.26	1042.13	1042.13
95	1060.31	1113.57	1113.57
100	1106.03	1161.57	1161.57
105	1126.57	1183.13	1183.13
110	1120.44	1176.70	1176.70
115	1087.67	1142.30	1142.30
120	1029.82	1081.57	1081.57
125	949.83	997.60	997.60
130	851.84	894.74	894.74
135	740.86	778.26	778.26
140	622.58	654.13	654.13
145	503.22	528.91	528.91
150	389.90	410.06	410.06
155	291.91	307.40	307.40
160	223.52	235.87	241.76
165	201.55	212.92	253.43
170	223.90	236.26	236.95
175	266.81	281.13	281.13

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

Azimuth	E _{theo}	E _{std}	E _{aug}
180	311.62	328.04	328.04
185	349.73	367.96	367.96
190	377.56	397.14	397.14
195	393.64	413.99	413.99
200	397.38	417.91	417.91
205	388.67	408.78	408.78
210	367.78	386.89	387.06
215	335.58	353.14	356.52
220	294.18	309.78	320.34
225	248.65	262.14	282.83
230	211.04	222.83	253.28
235	204.16	215.66	248.18
240	246.15	259.52	283.15
245	328.50	345.72	357.89
250	433.99	456.29	460.59
255	550.67	578.68	579.31
260	670.39	704.30	704.30
265	786.46	826.12	826.12
270	892.89	937.83	937.83
275	984.25	1033.73	1033.73
280	1055.82	1108.85	1108.85
285	1103.91	1159.34	1159.34
290	1126.12	1182.66	1182.66
295	1121.50	1177.81	1177.81
300	1090.63	1145.41	1145.41
305	1035.57	1087.60	1087.60
310	959.64	1007.89	1007.89
315	867.19	910.85	910.85
320	763.24	801.74	801.74
325	653.20	686.26	686.26
330	542.65	570.26	570.26
335	437.29	459.75	460.61
340	343.27	361.20	373.37
345	267.79	282.16	319.40
350	219.02	231.17	297.17
355	201.60	212.98	293.04