

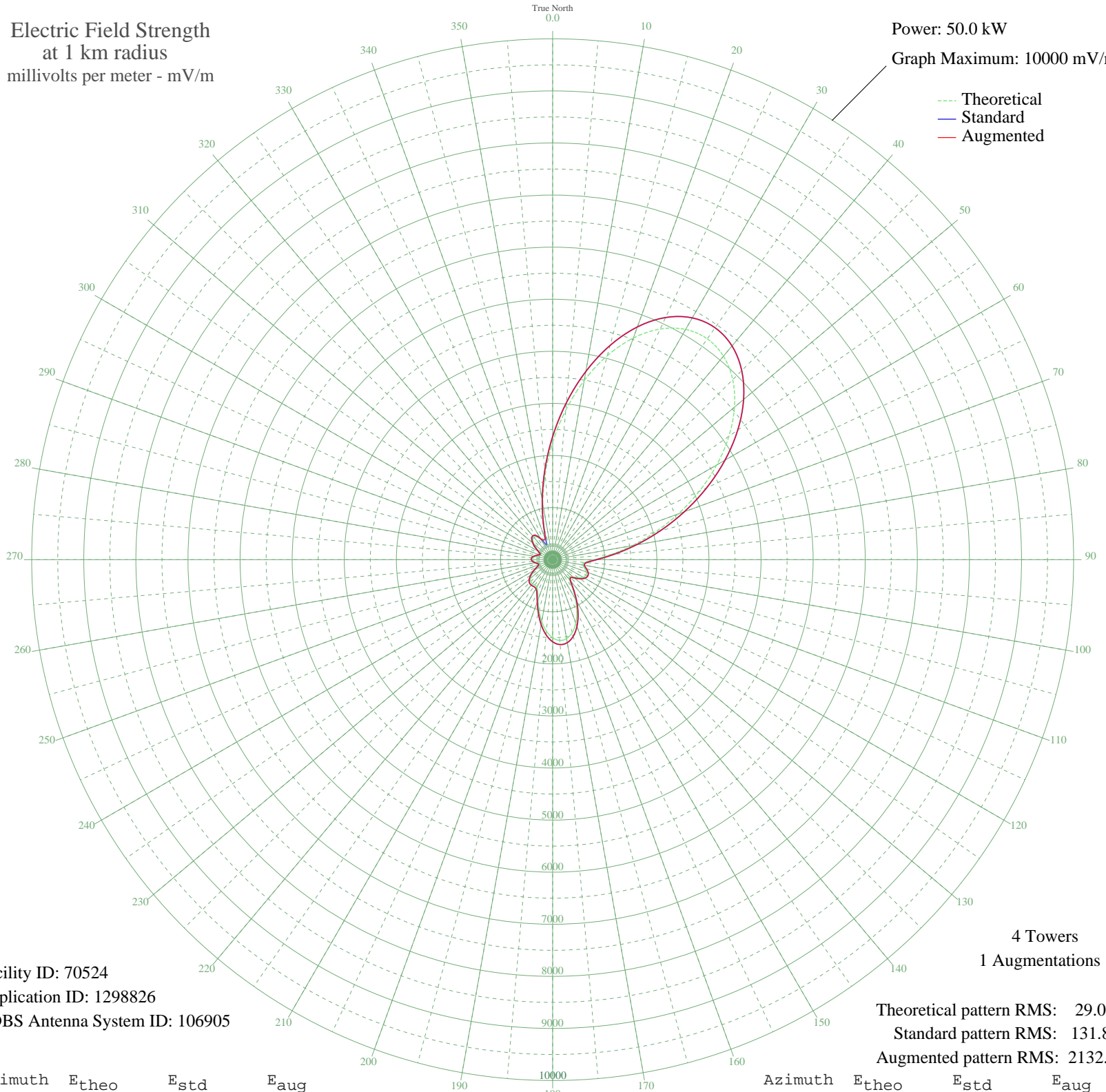
WTCM TRAVERSE CITY, MI BL-20090226ACO 580 kHz

Daytime

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

Power: 50.0 kW
Graph Maximum: 10000 mV/m

--- Theoretical
— Standard
— Augmented



Facility ID: 70524
Application ID: 1298826
CDBS Antenna System ID: 106905

4 Towers
1 Augmentations

Theoretical pattern RMS: 29.07
Standard pattern RMS: 131.82
Augmented pattern RMS: 2132.23

Azimuth	E _{theo}	E _{std}	E _{aug}
0	2250.11	2363.78	2363.78
5	2879.48	3024.37	3024.37
10	3493.52	3668.95	3668.95
15	4054.74	4258.12	4258.12
20	4528.22	4755.21	4755.21
25	4884.94	5129.73	5129.73
30	5104.39	5360.12	5360.12
35	5176.21	5435.53	5435.53
40	5100.71	5356.26	5356.26
45	4888.02	5132.96	5132.96
50	4556.45	4784.85	4784.85
55	4130.15	4337.30	4337.30
60	3636.64	3819.20	3819.20
65	3104.49	3260.56	3260.56
70	2561.55	2690.65	2690.65
75	2034.01	2137.00	2137.00
80	1546.63	1625.66	1625.66
85	1125.04	1183.62	1183.62
90	801.32	844.66	844.66
95	616.88	651.97	651.97
100	583.79	617.46	617.46
105	633.71	669.53	669.53
110	686.85	725.00	725.00
115	704.29	743.22	743.22
120	675.02	712.65	712.65
125	604.32	638.86	638.86
130	514.83	545.65	545.65
135	458.44	487.06	487.06
140	505.24	535.68	535.68
145	662.10	699.16	699.16
150	875.18	921.94	921.94
155	1097.37	1154.63	1154.63
160	1296.60	1363.46	1363.46
165	1449.52	1523.81	1523.81
170	1539.46	1618.14	1618.14
175	1556.87	1636.40	1636.40

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	1500.34	1577.10	1577.10
185	1377.37	1448.15	1448.15
190	1204.64	1267.05	1267.05
195	1007.62	1060.60	1060.60
200	819.71	863.89	863.89
205	678.14	715.91	715.91
210	607.87	642.56	642.56
215	596.95	631.18	631.18
220	604.58	639.14	639.14
225	595.70	629.88	629.88
230	554.88	587.34	587.34
235	483.01	512.57	512.57
240	392.82	419.09	419.09
245	307.86	331.67	331.67
250	261.62	284.56	284.56
255	273.45	296.56	296.56
260	318.50	342.57	342.57
265	361.79	387.07	387.07
270	384.18	410.16	410.16
275	378.76	404.57	404.57
280	346.58	371.41	371.41
285	296.44	319.99	319.99
290	249.20	271.99	271.99
295	241.14	263.86	263.86
300	292.87	316.35	316.35
305	379.97	405.82	405.82
310	469.43	498.47	498.47
315	536.93	568.65	568.65
320	563.46	596.27	596.27
325	533.93	565.52	565.52
330	441.25	469.23	470.03
335	311.59	335.48	416.91
340	324.77	349.00	427.86
345	629.83	665.48	666.05
350	1090.62	1147.55	1147.55
355	1642.35	1726.07	1726.07