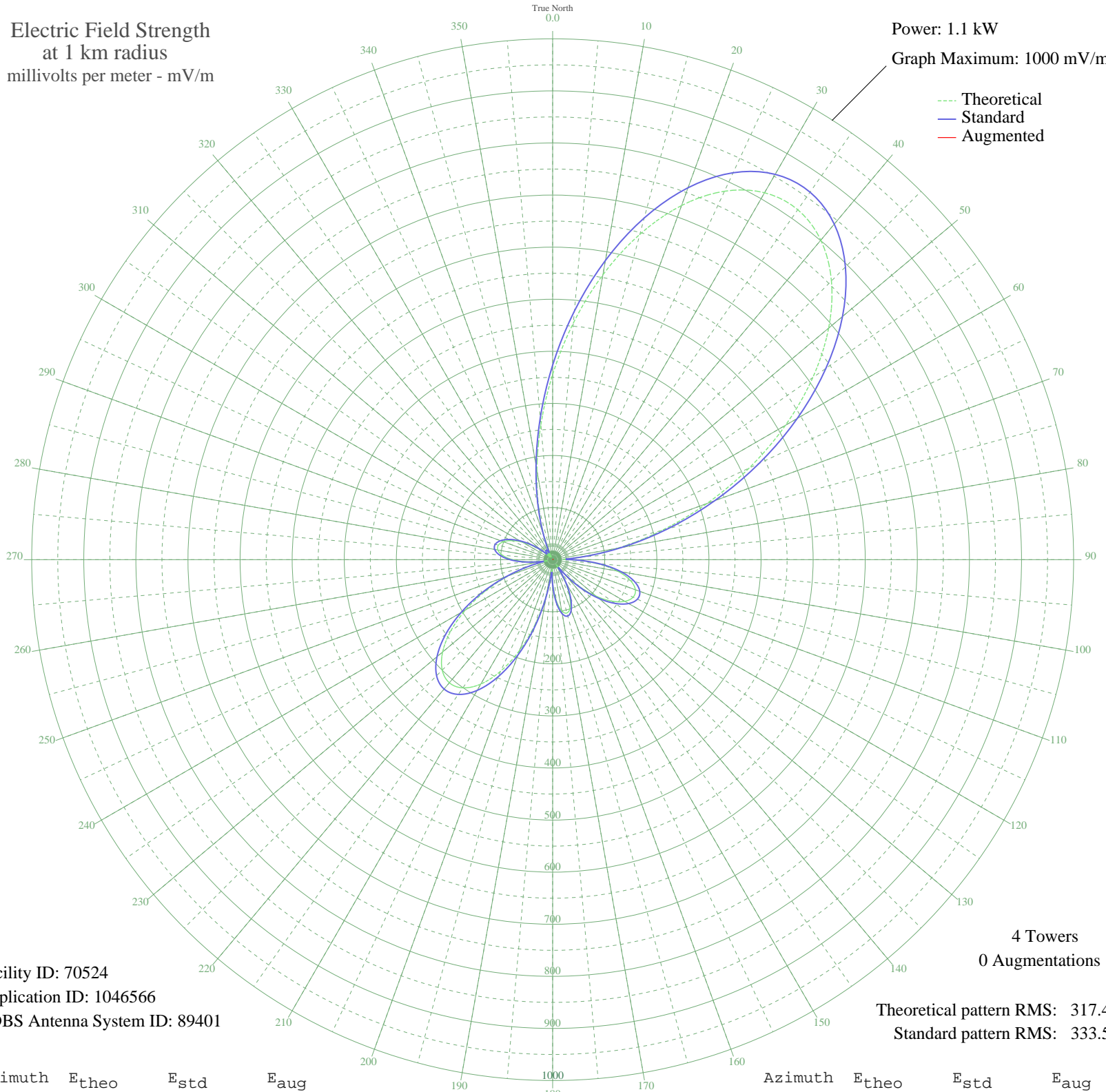


WTCM TRAVERSE CITY, MI BL-20050131BNA 580 kHz

Nighttime

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

Power: 1.1 kW
Graph Maximum: 1000 mV/m



Facility ID: 70524
Application ID: 1046566
CDBS Antenna System ID: 89401

4 Towers
0 Augmentations

Theoretical pattern RMS: 317.40
Standard pattern RMS: 333.50

Azimuth	E _{theo}	E _{std}	E _{aug}
0	355.51	373.53	
5	456.12	479.12	
10	555.43	583.36	
15	646.73	679.20	
20	723.58	759.88	
25	780.48	819.61	
30	813.42	854.19	
35	820.24	861.35	
40	800.79	840.93	
45	756.80	794.75	
50	691.60	726.31	
55	609.67	640.29	
60	516.12	542.09	
65	416.26	437.27	
70	315.13	331.16	
75	217.29	228.55	
80	126.71	133.72	
85	48.07	52.22	
90	32.89	37.04	
95	84.79	90.03	
100	126.43	133.43	
105	154.52	162.79	
110	168.99	177.95	
115	170.46	179.49	
120	159.96	168.49	
125	138.92	146.48	
130	109.23	115.47	
135	73.28	78.10	
140	34.44	38.56	
145	13.99	19.88	
150	46.82	50.96	
155	77.13	82.08	
160	97.89	103.65	
165	106.03	112.13	
170	99.64	105.48	
175	78.26	83.26	

Azimuth	E _{theo}	E _{std}	E _{aug}
180	43.76	47.86	
185	20.44	25.30	
190	68.12	72.77	
195	127.18	134.20	
200	185.14	194.86	
205	236.23	248.41	
210	275.80	289.90	
215	300.51	315.82	
220	308.55	324.26	
225	299.82	315.09	
230	275.70	289.80	
235	238.86	251.16	
240	192.80	202.89	
245	141.46	149.13	
250	88.79	94.19	
255	38.80	42.88	
260	13.17	19.25	
265	47.75	51.90	
270	76.87	81.82	
275	96.68	102.39	
280	106.87	113.01	
285	107.87	114.05	
290	100.61	106.49	
295	86.51	91.82	
300	67.39	72.02	
305	45.47	49.59	
310	23.51	28.08	
315	6.89	15.22	
320	12.95	19.09	
325	17.75	22.95	
330	11.62	18.12	
335	12.28	18.59	
340	48.86	53.02	
345	103.42	109.41	
350	174.55	183.76	
355	259.88	273.21	

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.

03 Jul 2009

Prepared by Audio Division, Media Bureau
Federal Communications Commission