

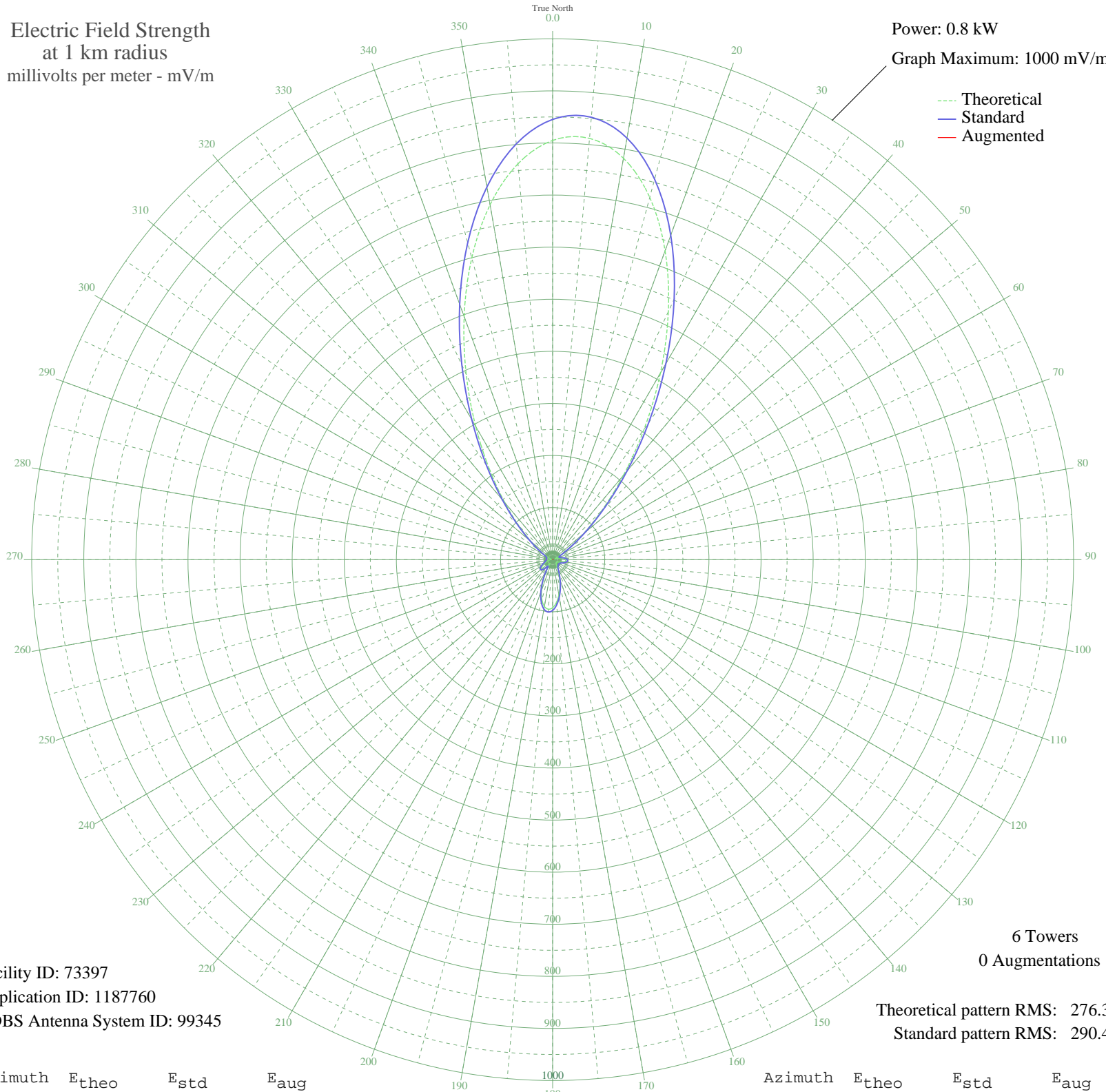
WCAR LIVONIA, MI BP-20050128AMO 1090 kHz

Nighttime

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

Power: 0.8 kW

Graph Maximum: 1000 mV/m



Facility ID: 73397
Application ID: 1187760
CDBS Antenna System ID: 99345

6 Towers
0 Augmentations

Theoretical pattern RMS: 276.30
Standard pattern RMS: 290.40

Azimuth	E _{theo}	E _{std}	E _{aug}
0	804.93	845.25	
5	811.94	852.61	
10	782.66	821.88	
15	720.09	756.18	
20	631.13	662.79	
25	525.45	551.84	
30	413.81	434.65	
35	306.36	321.88	
40	211.26	222.11	
45	133.80	140.95	
50	76.19	80.81	
55	37.87	41.36	
60	16.09	20.38	
65	6.50	13.29	
70	5.34	12.71	
75	10.18	15.63	
80	16.52	20.76	
85	21.89	25.66	
90	24.97	28.59	
95	25.29	28.90	
100	23.04	26.75	
105	18.98	22.96	
110	14.21	18.78	
115	10.17	15.63	
120	8.29	14.35	
125	8.46	14.45	
130	9.09	14.87	
135	9.49	15.15	
140	10.22	15.66	
145	12.54	17.42	
150	17.71	21.81	
155	26.35	29.93	
160	38.45	41.95	
165	53.12	56.93	
170	68.61	72.94	
175	82.50	87.37	

Azimuth	E _{theo}	E _{std}	E _{aug}
180	92.16	97.44	
185	95.44	100.85	
190	91.16	96.39	
195	79.53	84.28	
200	62.12	66.21	
205	41.57	45.12	
210	21.28	25.08	
215	8.16	14.27	
220	15.36	19.75	
225	23.19	26.88	
230	26.36	29.93	
235	25.44	29.04	
240	21.85	25.62	
245	17.18	21.34	
250	12.79	17.62	
255	9.49	15.14	
260	7.31	13.74	
265	5.73	12.90	
270	4.35	12.28	
275	3.13	11.87	
280	2.36	11.67	
285	2.52	11.71	
290	4.12	12.20	
295	8.01	14.17	
300	15.92	20.23	
305	30.34	33.84	
310	54.31	58.16	
315	90.92	96.15	
320	142.75	150.32	
325	211.12	221.97	
330	295.45	310.43	
335	392.61	412.40	
340	496.81	521.77	
345	599.81	629.91	
350	691.88	726.56	
355	763.07	801.31	

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.

06 Nov 2009

Prepared by Audio Division, Media Bureau
Federal Communications Commission