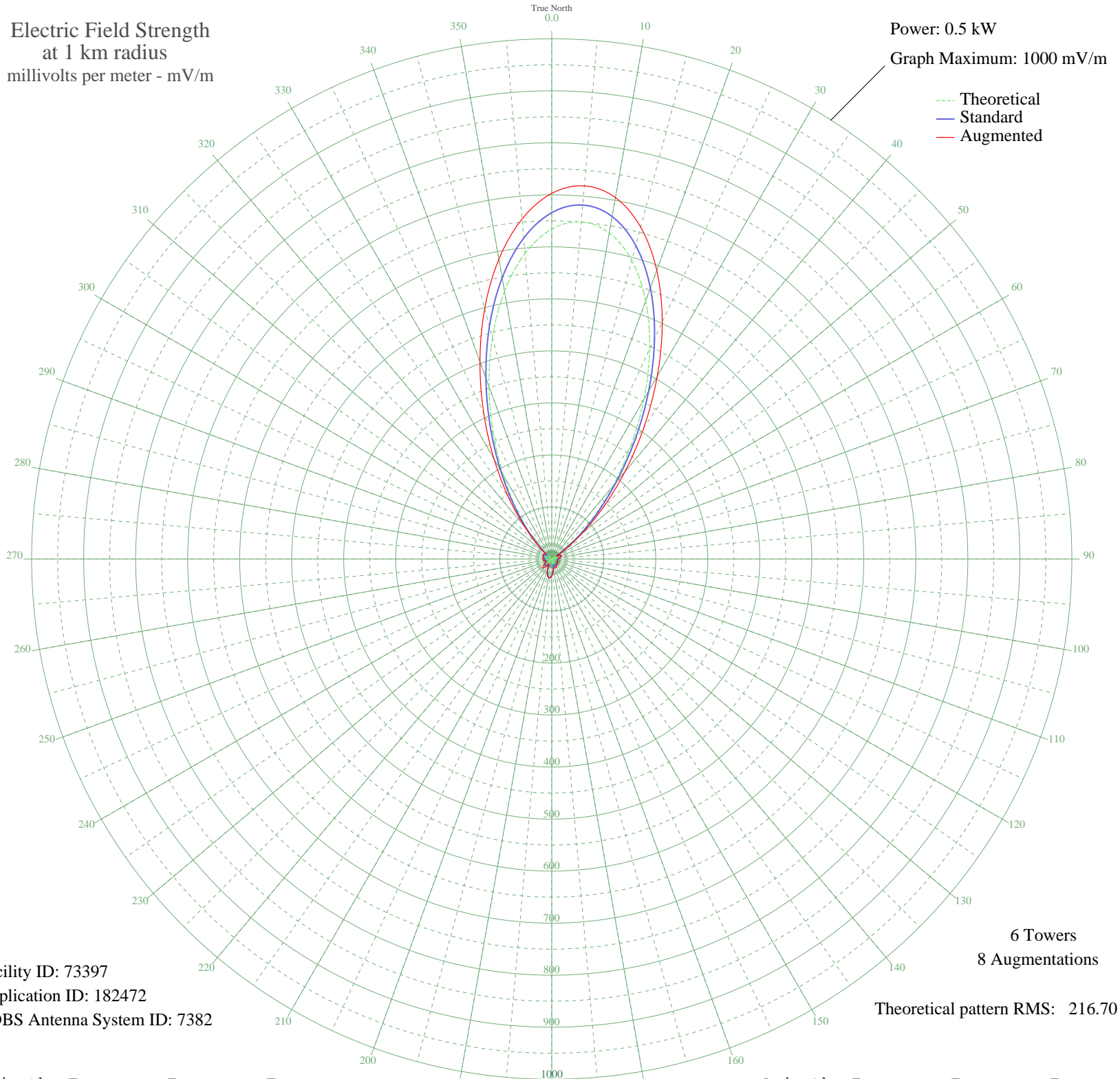


WCAR LIVONIA, MI BL-19930309AB 1090 kHz

Nighttime

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

Power: 0.5 kW
Graph Maximum: 1000 mV/m



Facility ID: 73397
Application ID: 182472
CDBS Antenna System ID: 7382

6 Towers
8 Augmentations
Theoretical pattern RMS: 216.70

Azimuth	Etheo	Estd	Eaug
0	634.01	665.79	702.76
5	650.43	683.04	720.00
10	636.69	668.61	705.43
15	594.25	624.05	660.56
20	527.97	554.47	590.43
25	445.27	467.66	502.64
30	354.82	372.71	406.01
35	265.12	278.58	309.07
40	183.35	192.80	218.77
45	114.51	120.69	139.71
50	61.14	65.04	74.16
55	23.48	26.80	26.80
60	0.64	10.52	10.52
65	12.12	16.50	16.50
70	15.96	19.78	19.78
75	14.73	18.69	18.72
80	11.10	15.69	15.82
85	7.09	12.87	13.21
90	4.01	11.31	11.87
95	2.43	10.81	11.52
100	2.34	10.78	11.52
105	3.34	11.07	11.78
110	4.77	11.63	12.43
115	5.90	12.19	13.17
120	6.04	12.27	13.52
125	4.78	11.64	13.22
130	2.15	10.74	12.63
135	2.18	10.75	12.62
140	6.20	12.35	13.80
145	9.57	14.53	16.06
150	11.03	15.63	18.14
155	9.68	14.61	18.60
160	5.18	11.83	17.54
165	2.93	10.94	17.15
170	11.91	16.33	20.29
175	21.27	24.68	26.46

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.

13 Nov 2009

Prepared by Audio Division, Media Bureau
Federal Communications Commission

Azimuth	Etheo	Estd	Eaug
180	28.88	32.09	32.65
185	33.09	36.30	36.34
190	32.92	36.12	36.12
195	28.33	31.54	31.54
200	20.24	23.71	23.71
205	10.27	15.05	15.05
210	0.70	10.53	10.53
215	7.98	13.43	15.05
220	13.29	17.47	21.42
225	15.25	19.15	24.00
230	14.13	18.18	22.03
235	10.73	15.40	17.02
240	6.15	12.33	12.87
245	1.56	10.63	11.47
250	2.89	10.93	11.77
255	5.82	12.15	13.38
260	7.64	13.21	15.45
265	8.57	13.83	17.01
270	9.06	14.17	17.70
275	9.64	14.58	17.57
280	10.66	15.35	17.08
285	12.20	16.56	17.05
290	13.86	17.94	17.94
295	14.65	18.62	18.62
300	12.94	17.17	18.46
305	6.50	12.52	16.69
310	7.57	13.17	16.48
315	31.83	35.03	35.26
320	69.01	73.22	81.42
325	120.67	127.14	145.31
330	186.85	196.48	222.02
335	265.52	279.00	309.45
340	352.32	370.08	403.60
345	440.71	462.86	498.18
350	522.64	548.87	585.18
355	589.61	619.18	655.97