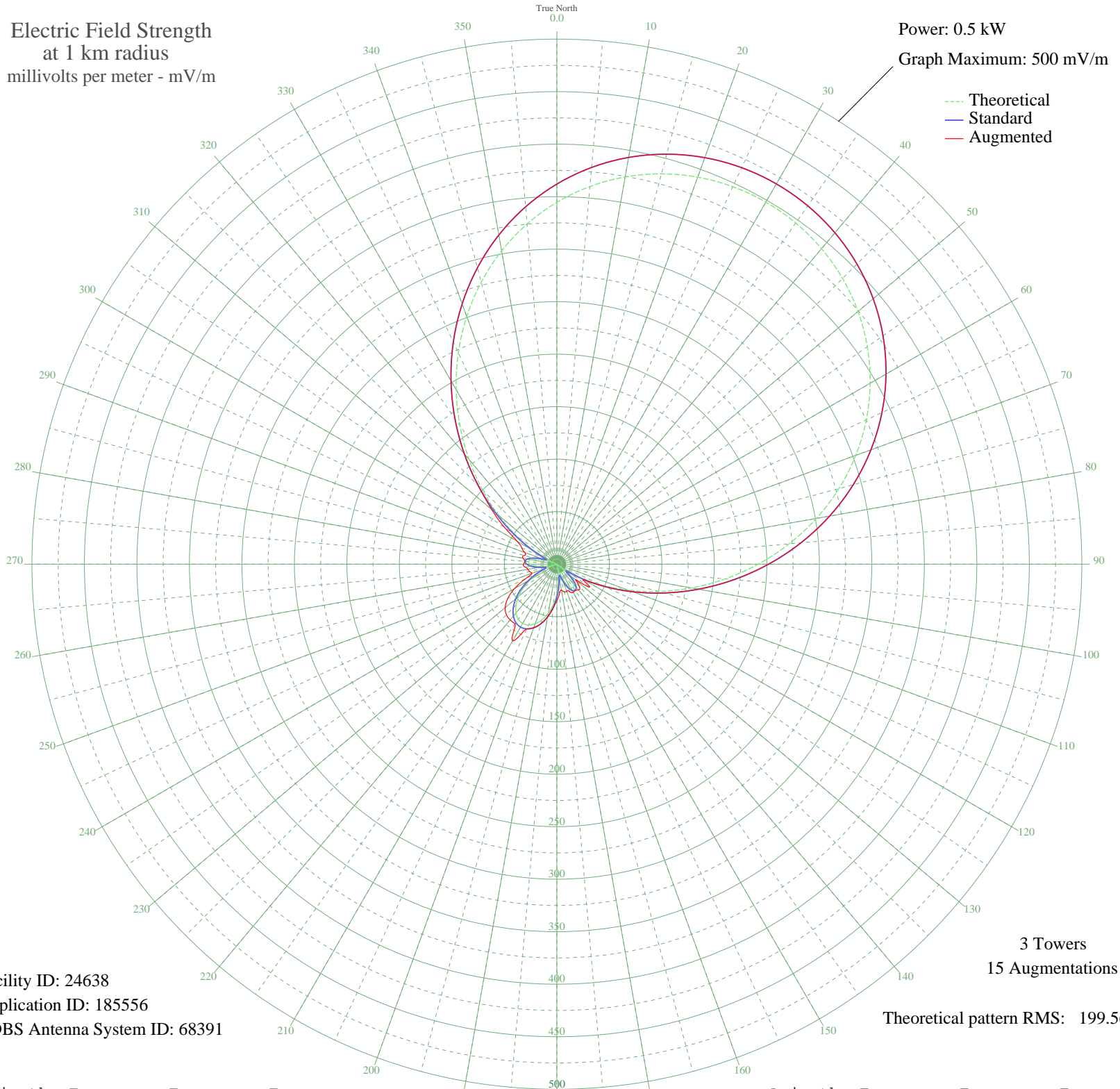


# WVFN EAST LANSING, MI BL-19930420AA 730 kHz

Daytime

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

Power: 0.5 kW  
Graph Maximum: 500 mV/m



Facility ID: 24638  
Application ID: 185556  
CDBS Antenna System ID: 68391

3 Towers  
15 Augmentations  
Theoretical pattern RMS: 199.56

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	344.59	361.97	361.97
5	361.02	379.22	379.22
10	374.44	393.30	393.30
15	384.83	404.21	404.21
20	392.22	411.96	411.96
25	396.63	416.60	416.60
30	398.10	418.14	418.14
35	396.63	416.60	416.60
40	392.22	411.96	411.96
45	384.83	404.21	404.21
50	374.44	393.30	393.30
55	361.02	379.22	379.22
60	344.59	361.97	361.97
65	325.20	341.62	341.62
70	302.97	318.29	318.29
75	278.13	292.23	292.23
80	251.00	263.76	263.76
85	222.04	233.38	233.38
90	191.79	201.66	201.66
95	160.94	169.31	169.31
100	130.22	137.14	137.14
105	100.44	105.99	105.99
110	72.40	76.74	76.74
115	46.86	50.31	50.31
120	24.48	27.76	29.99
125	5.81	12.14	38.14
130	8.78	13.97	23.13
135	19.11	22.65	30.58
140	25.18	28.45	32.02
145	27.21	30.44	30.58
150	25.55	28.81	31.02
155	20.73	24.16	28.97
160	13.34	17.50	27.28
165	4.06	11.33	27.36
170	6.43	12.48	25.06
175	17.43	21.10	28.17

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

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	28.32	31.54	34.77
185	38.53	41.80	41.89
190	47.56	51.03	51.03
195	55.00	58.70	58.70
200	60.54	64.43	64.43
205	63.95	67.97	67.97
210	65.11	69.16	84.33
215	63.95	67.97	69.31
220	60.54	64.43	69.28
225	55.00	58.70	68.00
230	47.56	51.03	64.25
235	38.53	41.80	57.19
240	28.32	31.54	46.61
245	17.43	21.10	33.08
250	6.43	12.48	25.29
255	4.06	11.33	26.99
260	13.34	17.50	27.97
265	20.73	24.16	30.58
270	25.55	28.81	31.78
275	27.21	30.44	30.58
280	25.18	28.45	32.79
285	19.11	22.65	32.19
290	8.78	13.97	32.64
295	5.81	12.14	36.93
300	24.48	27.76	43.72
305	46.86	50.31	60.63
310	72.40	76.74	81.20
315	100.44	105.99	106.11
320	130.22	137.14	137.14
325	160.94	169.31	169.31
330	191.79	201.66	201.66
335	222.04	233.38	233.38
340	251.00	263.76	263.76
345	278.13	292.23	292.23
350	302.97	318.29	318.29
355	325.20	341.62	341.62