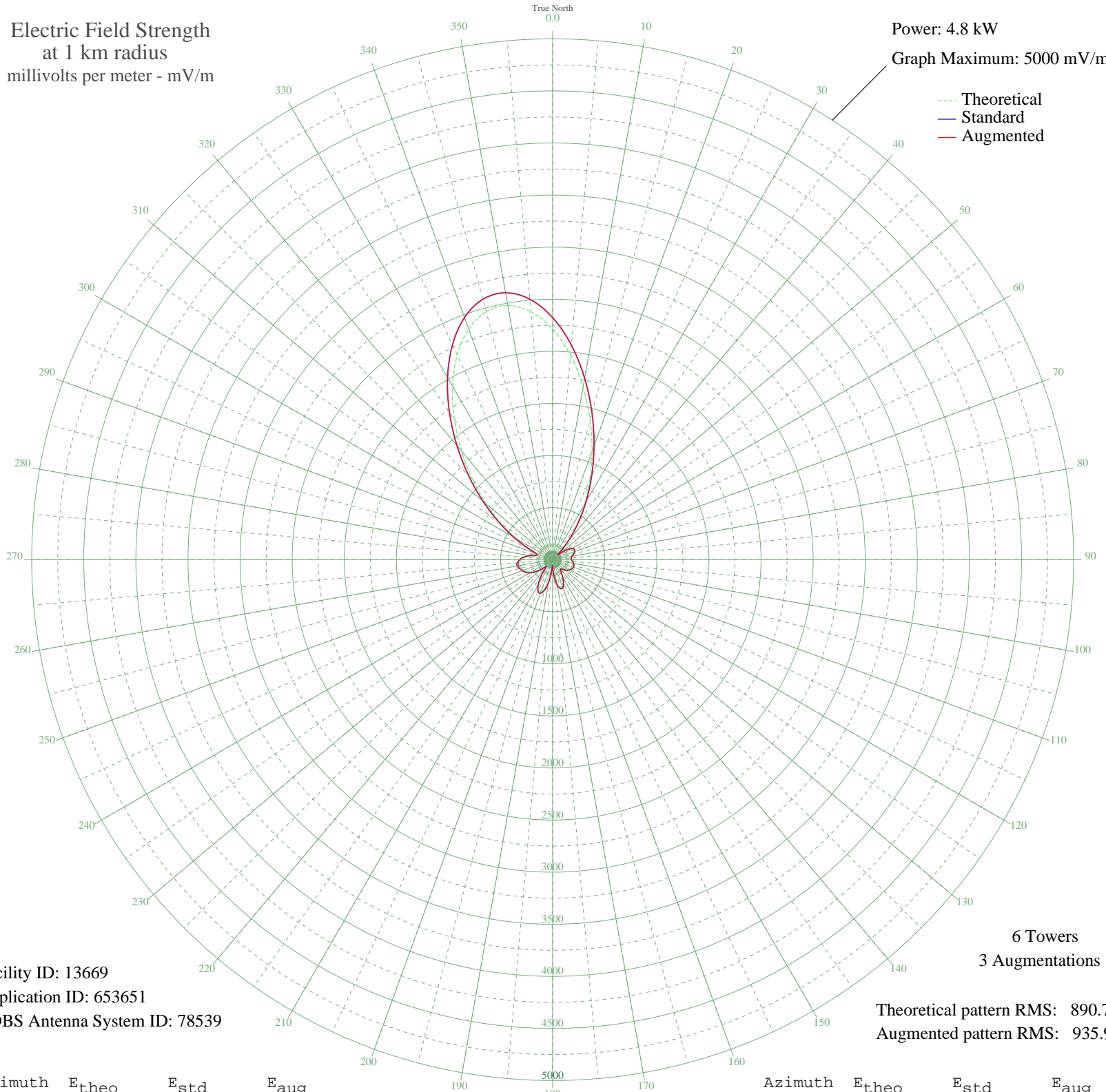


WNIO YOUNGSTOWN, OH BL-20030317MYA 1390 kHz

Nighttime

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

Power: 4.8 kW
Graph Maximum: 5000 mV/m



--- Theoretical
— Standard
— Augmented

Facility ID: 13669
Application ID: 653651
CDBS Antenna System ID: 78539

6 Towers
3 Augmentations

Theoretical pattern RMS: 890.70
Augmented pattern RMS: 935.93

Azimuth	Etheo	Estd	Eaug
0	2212.97	2323.81	2323.81
5	1968.06	2066.68	2066.68
10	1684.06	1768.51	1768.51
15	1389.25	1459.02	1459.02
20	1105.12	1160.76	1160.76
25	843.44	886.11	886.11
30	607.97	639.07	639.07
35	399.19	420.21	420.21
40	219.21	232.10	232.10
45	80.62	89.76	89.76
50	82.41	91.54	91.54
55	155.26	165.73	165.73
60	201.50	213.67	213.67
65	218.63	231.49	231.49
70	213.37	226.02	226.02
75	195.83	207.77	207.77
80	177.58	188.83	188.83
85	168.50	179.43	179.43
90	171.64	182.68	182.68
95	182.14	193.57	193.57
100	192.91	204.74	204.74
105	199.23	211.31	211.31
110	199.44	211.53	211.53
115	193.76	205.63	205.63
120	182.79	194.24	194.24
125	166.38	177.23	177.23
130	144.11	154.24	154.24
135	119.13	128.60	128.60
140	106.63	115.88	115.88
145	129.54	139.26	139.26
150	180.80	192.18	192.18
155	234.80	248.34	248.34
160	270.35	285.44	285.44
165	272.11	287.27	287.27
170	231.90	245.32	245.32
175	151.27	161.61	162.98

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.

14 Nov 2009

Prepared by Audio Division, Media Bureau
Federal Communications Commission

Azimuth	Etheo	Estd	Eaug
180	47.87	58.47	70.39
185	94.38	103.50	109.06
190	205.00	217.31	217.51
195	287.12	302.95	302.95
200	325.22	342.78	342.78
205	315.03	332.12	332.12
210	262.47	277.20	277.20
215	181.88	193.30	193.79
220	97.07	106.21	117.68
225	73.19	82.45	100.68
230	132.24	142.03	145.38
235	192.95	204.78	204.78
240	238.93	252.65	252.65
245	271.25	286.37	286.37
250	293.90	310.03	310.03
255	309.58	326.43	330.39
260	317.92	335.15	348.31
265	315.78	332.91	343.14
270	299.04	315.40	316.22
275	264.57	279.40	279.40
280	213.18	225.83	225.83
285	158.62	169.20	169.20
290	155.49	165.98	165.98
295	250.67	264.89	264.89
300	407.78	429.21	429.21
305	603.49	634.37	634.37
310	830.65	872.70	872.70
315	1084.94	1139.58	1139.58
320	1359.95	1428.26	1428.26
325	1644.47	1726.95	1726.95
330	1921.07	2017.34	2017.34
335	2166.73	2275.26	2275.26
340	2355.75	2473.72	2473.72
345	2464.57	2587.98	2587.98
350	2477.28	2601.32	2601.32
355	2390.06	2509.74	2509.74