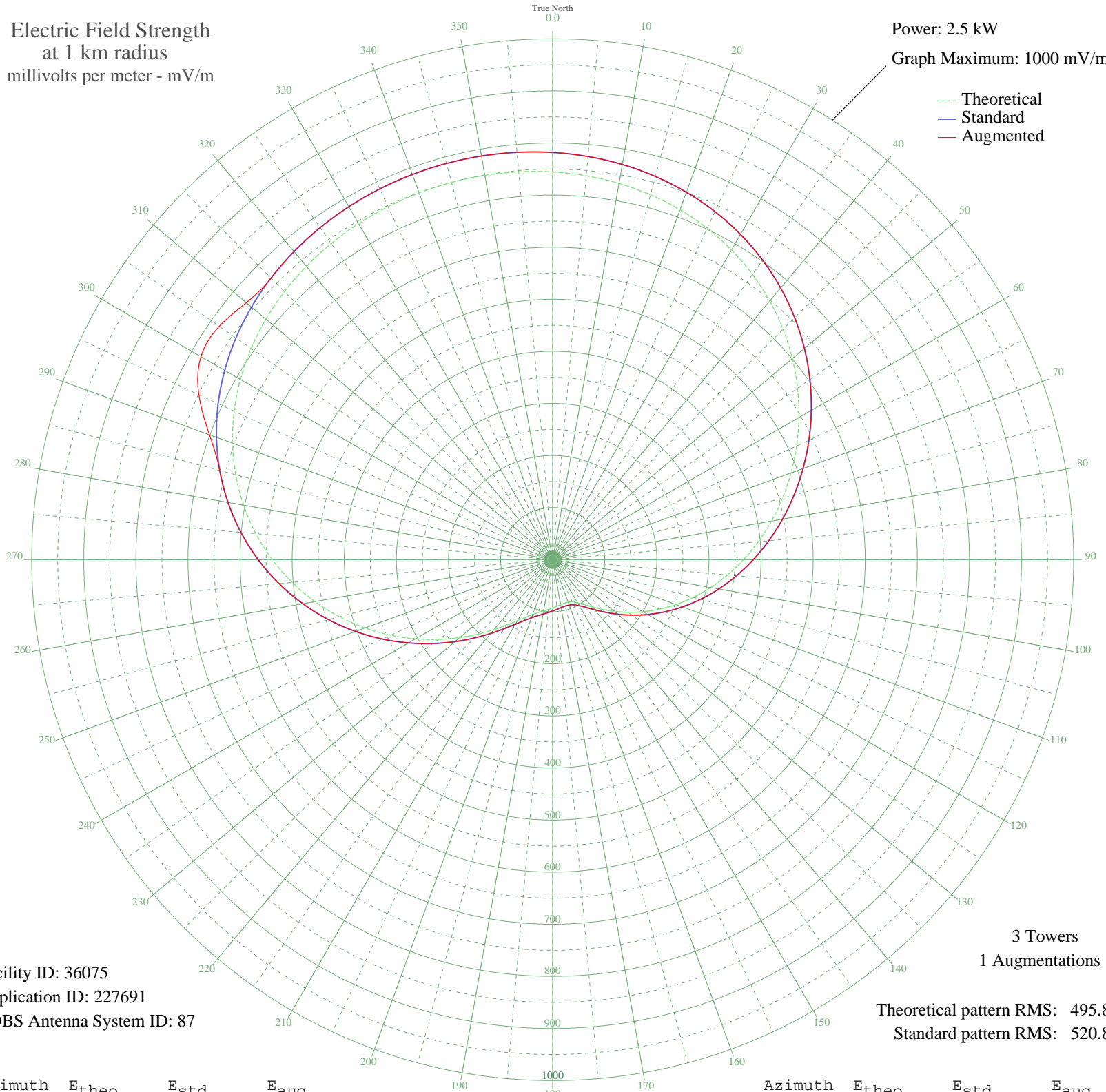


# WGNZ FAIRBORN, OH BL-19960607AB 1110 kHz

Daytime

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

Power: 2.5 kW  
Graph Maximum: 1000 mV/m



--- Theoretical  
— Standard  
— Augmented

Facility ID: 36075  
Application ID: 227691  
CDBS Antenna System ID: 87

3 Towers  
1 Augmentations

Theoretical pattern RMS: 495.80  
Standard pattern RMS: 520.85

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	744.44	781.84	781.84
5	739.86	777.03	777.03
10	733.54	770.40	770.40
15	725.26	761.71	761.71
20	714.79	750.72	750.72
25	701.94	737.22	737.22
30	686.58	721.10	721.10
35	668.66	702.29	702.29
40	648.23	680.85	680.85
45	625.46	656.94	656.94
50	600.57	630.81	630.81
55	573.89	602.81	602.81
60	545.78	573.31	573.31
65	516.64	542.72	542.72
70	486.82	511.43	511.43
75	456.65	479.77	479.77
80	426.41	448.04	448.04
85	396.28	416.43	416.43
90	366.42	385.10	385.10
95	336.94	354.18	354.18
100	307.95	323.77	323.77
105	279.55	294.00	294.00
110	251.93	265.05	265.05
115	225.29	237.13	237.13
120	199.90	210.55	210.55
125	176.12	185.67	185.67
130	154.33	162.90	162.90
135	134.98	142.70	142.70
140	118.53	125.56	125.56
145	105.39	111.89	111.89
150	95.81	101.97	101.97
155	89.78	95.72	95.72
160	86.88	92.72	92.72
165	86.41	92.24	92.24
170	87.60	93.47	93.47
175	89.79	95.73	95.73

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	92.57	98.61	98.61
185	95.85	102.00	102.00
190	99.82	106.12	106.12
195	104.97	111.46	111.46
200	112.04	118.81	118.81
205	121.90	129.07	129.07
210	135.38	143.11	143.11
215	153.07	161.58	161.58
220	175.27	184.78	184.78
225	201.91	212.66	212.66
230	232.65	244.84	244.84
235	266.91	280.75	280.75
240	303.99	319.62	319.62
245	343.06	360.60	360.60
250	383.25	402.75	402.75
255	423.66	445.15	445.15
260	463.44	486.90	486.90
265	501.82	527.17	527.17
270	538.12	565.27	565.27
275	571.79	600.61	600.61
280	602.45	632.79	632.79
285	629.85	661.55	661.55
290	653.89	686.78	701.08
295	674.59	708.52	749.36
300	692.11	726.90	779.60
305	706.65	742.17	781.25
310	718.49	754.60	767.64
315	727.95	764.53	764.53
320	735.34	772.28	772.28
325	740.94	778.16	778.16
330	745.02	782.45	782.45
335	747.79	785.36	785.36
340	749.39	787.04	787.04
345	749.89	787.56	787.56
350	749.29	786.93	786.93
355	747.52	785.08	785.08

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