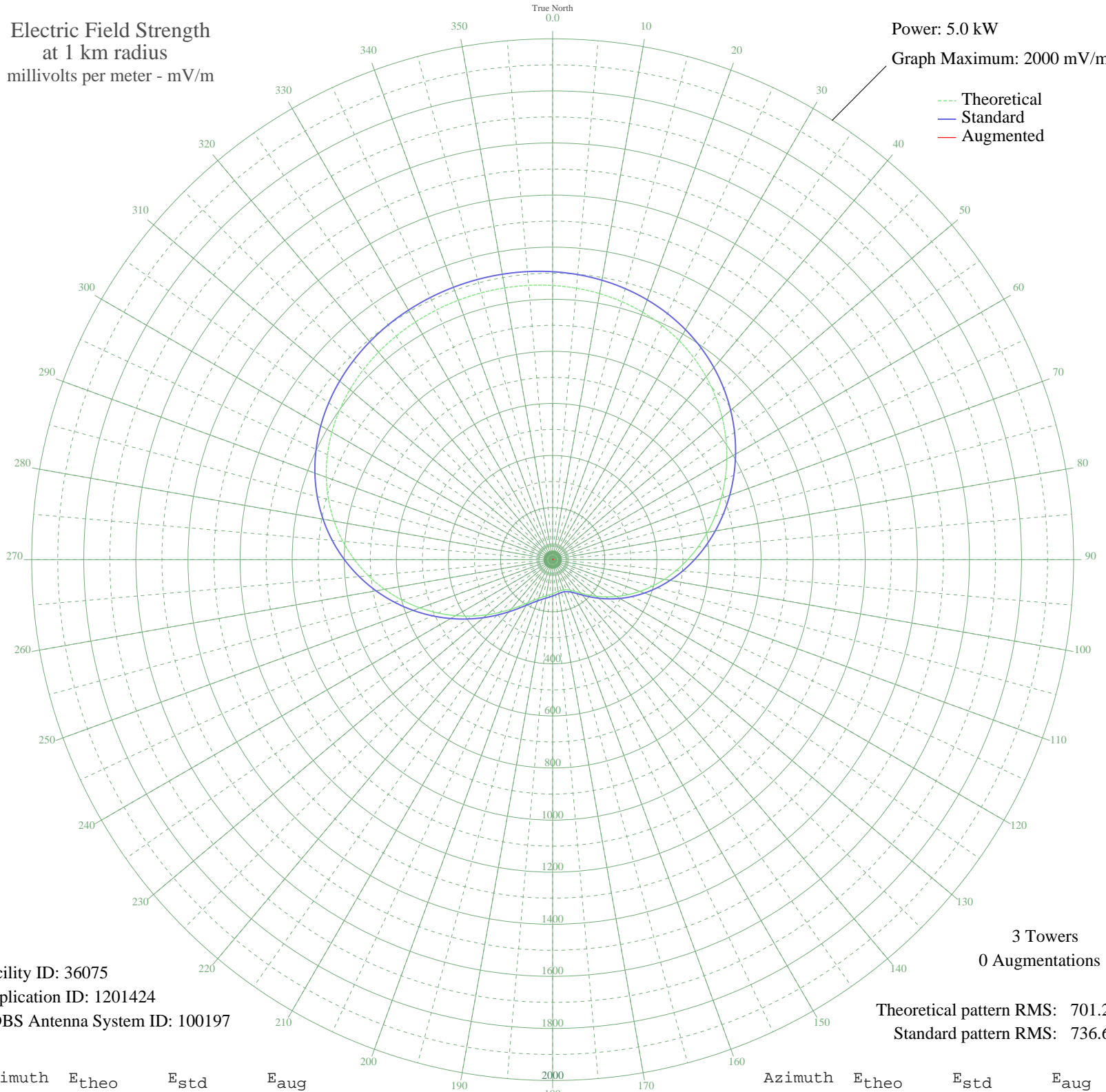


# WGNZ FAIRBORN, OH BP-20060620ABF 1110 kHz

Daytime

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

Power: 5.0 kW  
Graph Maximum: 2000 mV/m



Facility ID: 36075  
Application ID: 1201424  
CDBS Antenna System ID: 100197

3 Towers  
0 Augmentations

Theoretical pattern RMS: 701.20  
Standard pattern RMS: 736.60

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	1052.85	1105.74	
5	1046.36	1098.93	
10	1037.43	1089.56	
15	1025.73	1077.27	
20	1010.92	1061.72	
25	992.74	1042.64	
30	971.01	1019.83	
35	945.67	993.23	
40	916.78	962.91	
45	884.57	929.10	
50	849.37	892.15	
55	811.64	852.54	
60	771.89	810.82	
65	730.67	767.56	
70	688.50	723.30	
75	645.84	678.53	
80	603.06	633.65	
85	560.46	588.95	
90	518.23	544.64	
95	476.53	500.91	
100	435.52	457.90	
105	395.37	415.80	
110	356.30	374.85	
115	318.62	335.37	
120	282.72	297.78	
125	249.08	262.59	
130	218.27	230.38	
135	190.90	201.82	
140	167.63	177.57	
145	149.05	158.25	
150	135.51	144.21	
155	126.98	135.38	
160	122.87	131.13	
165	122.21	130.45	
170	123.89	132.19	
175	126.98	135.38	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	130.92	139.46	
185	135.56	144.26	
190	141.17	150.08	
195	148.46	157.64	
200	158.46	168.03	
205	172.40	182.54	
210	191.46	202.40	
215	216.49	228.52	
220	247.89	261.34	
225	285.56	300.76	
230	329.03	346.28	
235	377.49	397.06	
240	429.93	452.04	
245	485.19	509.99	
250	542.02	569.60	
255	599.17	629.57	
260	655.44	688.61	
265	709.72	745.57	
270	761.05	799.45	
275	808.67	849.43	
280	852.03	894.94	
285	890.78	935.62	
290	924.78	971.30	
295	954.06	1002.04	
300	978.83	1028.04	
305	999.40	1049.63	
310	1016.15	1067.22	
315	1029.53	1081.26	
320	1039.97	1092.22	
325	1047.90	1100.54	
330	1053.67	1106.60	
335	1057.59	1110.71	
340	1059.85	1113.09	
345	1060.56	1113.83	
350	1059.71	1112.95	
355	1057.21	1110.32	

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.

15 Mar 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission