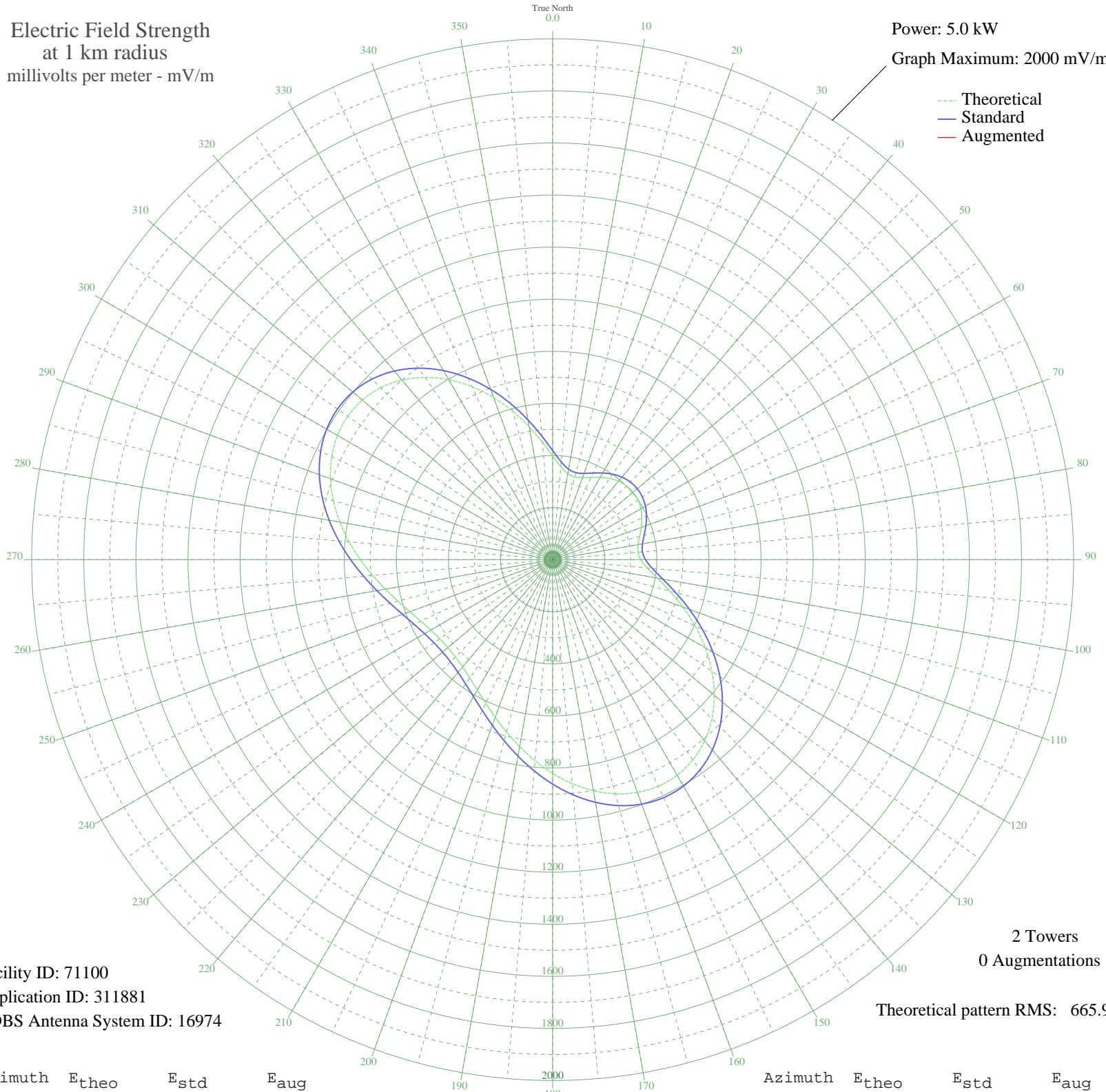


# WATO OAK RIDGE, TN BL-- 1290 kHz

Daytime

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

Power: 5.0 kW  
Graph Maximum: 2000 mV/m



Facility ID: 71100  
Application ID: 311881  
CDBS Antenna System ID: 16974

2 Towers  
0 Augmentations

Theoretical pattern RMS: 665.95

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	398.31	418.88	
5	358.19	376.83	
10	335.16	352.70	
15	328.65	345.88	
20	334.93	352.46	
25	348.76	366.95	
30	365.28	384.26	
35	380.89	400.62	
40	393.22	413.55	
45	400.86	421.56	
50	403.10	423.91	
55	399.75	420.40	
60	391.09	411.32	
65	377.97	397.56	
70	361.95	380.78	
75	345.64	363.68	
80	332.90	350.33	
85	328.77	346.01	
90	338.37	356.07	
95	364.89	383.85	
100	408.20	429.25	
105	465.36	489.19	
110	532.08	559.18	
115	603.88	634.51	
120	676.55	710.77	
125	746.32	783.99	
130	809.88	850.70	
135	864.44	907.97	
140	907.84	953.53	
145	938.60	985.81	
150	955.94	1004.01	
155	959.85	1008.12	
160	951.00	998.82	
165	930.67	977.49	
170	900.68	946.00	
175	863.17	906.63	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	820.49	861.84	
185	775.06	814.16	
190	729.19	766.01	
195	684.97	719.60	
200	644.17	676.79	
205	608.22	639.06	
210	578.11	607.47	
215	554.51	582.71	
220	537.74	565.11	
225	527.94	554.83	
230	525.14	551.90	
235	529.34	556.30	
240	540.54	568.05	
245	558.69	587.09	
250	583.63	613.26	
255	614.97	646.14	
260	651.99	684.99	
265	693.59	728.65	
270	738.30	775.57	
275	784.26	823.81	
280	829.32	871.11	
285	871.16	915.02	
290	907.35	953.01	
295	935.58	982.63	
300	953.73	1001.70	
305	960.12	1008.40	
310	953.56	1001.51	
315	933.51	980.46	
320	900.14	945.44	
325	854.36	897.39	
330	797.81	838.02	
335	732.77	769.76	
340	662.14	695.64	
345	589.32	619.23	
350	518.19	544.60	
355	453.02	476.25	

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.

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10 Nov 2011

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Prepared by Audio Division, Media Bureau  
Federal Communications Commission