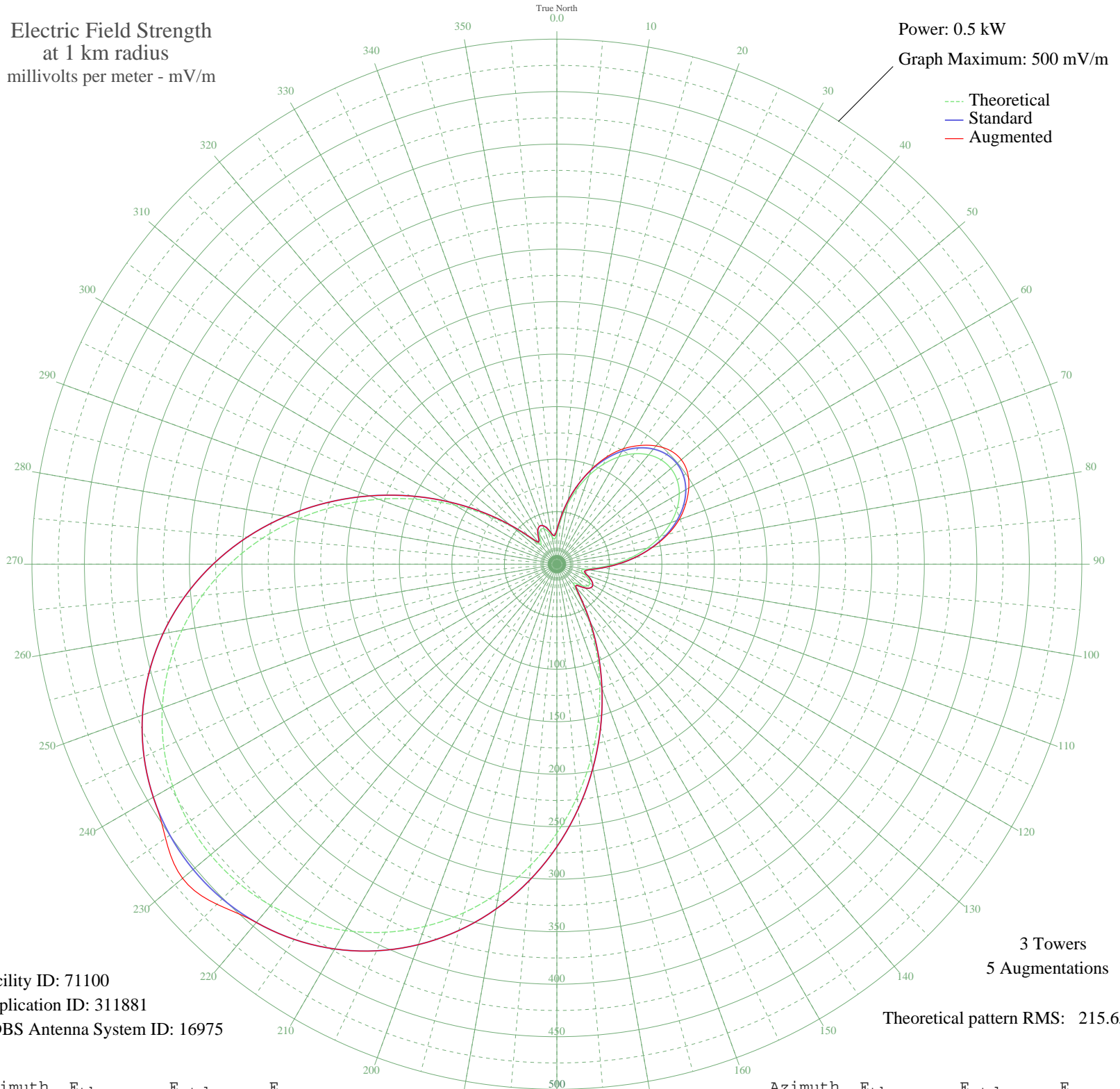


# WATO OAK RIDGE, TN BL-- 1290 kHz

Nighttime

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

Power: 0.5 kW  
Graph Maximum: 500 mV/m



Facility ID: 71100  
Application ID: 311881  
CDBS Antenna System ID: 16975

3 Towers  
5 Augmentations  
Theoretical pattern RMS: 215.65

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	29.48	32.69	32.69
5	41.93	45.27	45.27
10	57.56	61.35	61.35
15	74.11	78.52	78.53
20	90.25	95.34	96.15
25	105.08	110.84	112.86
30	117.95	124.30	126.95
35	128.36	135.19	137.97
40	135.94	143.12	146.97
45	140.45	147.84	152.91
50	141.75	149.21	154.72
55	139.80	147.16	151.93
60	134.66	141.78	145.07
65	126.49	133.23	135.43
70	115.56	121.79	123.90
75	102.25	107.88	109.33
80	87.10	92.06	92.52
85	70.80	75.08	75.08
90	54.31	57.99	57.99
95	39.08	42.37	42.37
100	27.69	30.92	30.92
105	23.97	27.28	27.28
110	27.59	30.83	30.83
115	32.95	36.16	36.16
120	36.26	39.50	39.50
125	36.00	39.24	39.24
130	31.98	35.20	35.20
135	25.96	29.22	29.22
140	24.81	28.10	28.10
145	36.95	40.20	40.20
150	59.30	63.15	63.15
155	87.40	92.38	92.38
160	119.08	125.48	125.48
165	152.91	160.90	160.90
170	187.70	197.37	197.37
175	222.40	233.76	233.76

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	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	256.07	269.08	269.08
185	287.94	302.52	302.52
190	317.35	333.39	333.39
195	343.84	361.18	361.18
200	367.05	385.54	385.54
205	386.76	406.23	406.23
210	402.86	423.13	423.13
215	415.29	436.19	436.19
220	424.06	445.38	445.38
225	429.16	450.74	457.97
230	430.61	452.27	465.41
235	428.43	449.97	455.04
240	422.60	443.85	443.85
245	413.10	433.88	433.88
250	399.93	420.06	420.06
255	383.10	402.40	402.40
260	362.68	380.96	380.96
265	338.79	355.89	355.89
270	311.69	327.45	327.45
275	281.74	296.02	296.02
280	249.46	262.14	262.14
285	215.51	226.53	226.53
290	180.72	190.04	190.04
295	146.03	153.69	153.69
300	112.53	118.63	118.63
305	81.44	86.16	86.16
310	54.28	57.95	57.95
315	33.51	36.72	36.72
320	24.10	27.41	27.41
325	27.11	30.35	30.50
330	33.05	36.27	36.47
335	36.36	39.61	39.66
340	35.85	39.09	39.09
345	31.96	35.18	35.18
350	26.55	29.80	29.80
355	23.99	27.30	27.30