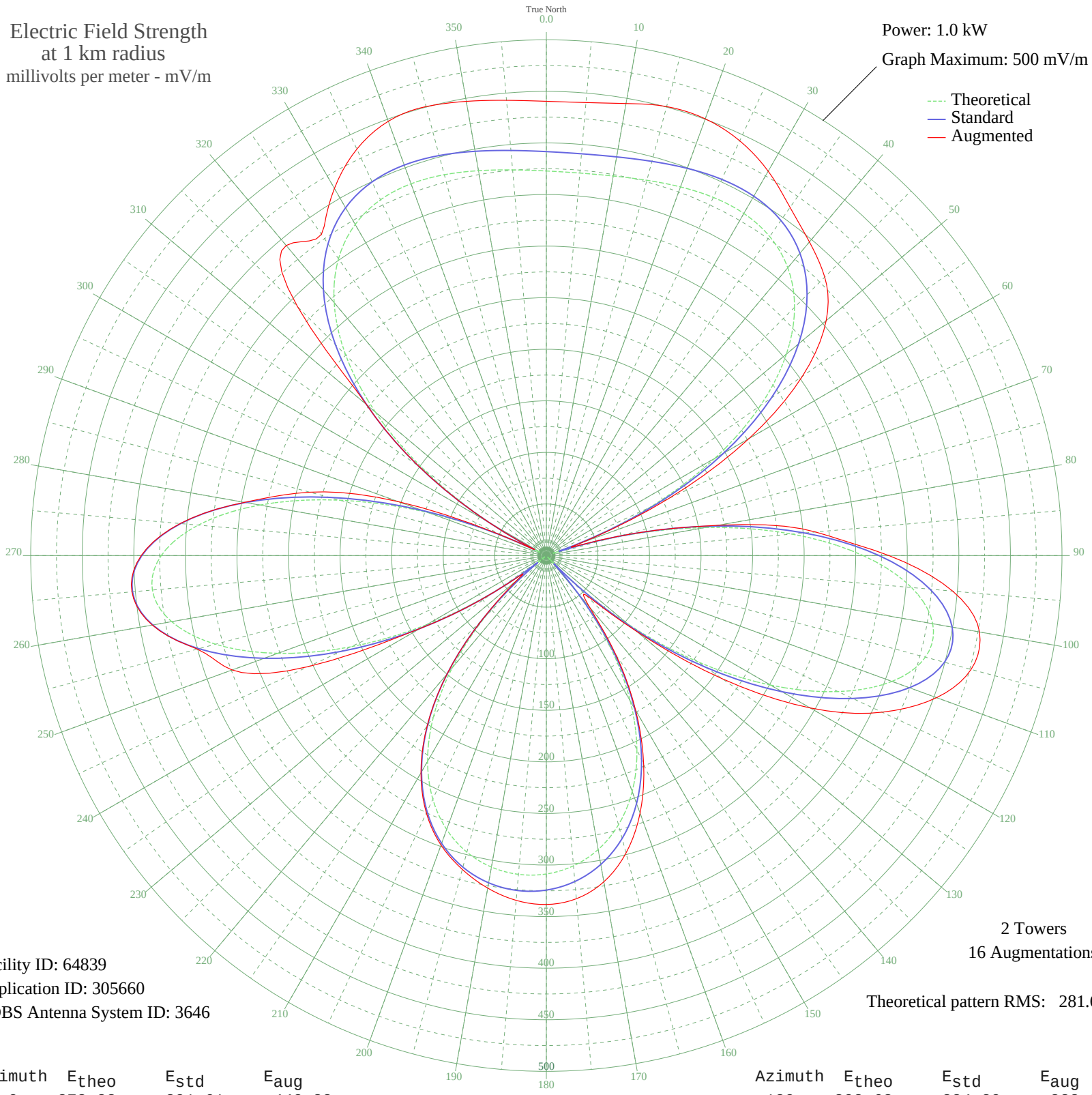
WTAD QUINCY, IL BL-- 930 kHz

Nighttime

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



Power: 1.0 kW

Graph Maximum: 500 mV/m

Theoretical
Standard
Augmented

2 Towers
16 Augmentations

Facility ID: 64839
Application ID: 305660
CDBS Antenna System ID: 3646

Theoretical pattern RMS: 281.64

Azimuth	E_{theo}	E_{std}	E_{aug}
0	372.83	391.61	440.38
5	372.21	390.97	440.83
10	373.62	392.45	444.97
15	376.65	395.63	450.62
20	380.33	399.48	450.56
25	383.12	402.41	443.66
30	383.00	402.29	430.24
35	377.58	396.60	412.03
40	364.22	382.57	396.88
45	340.37	357.54	381.75
50	303.88	319.25	354.20
55	253.43	266.31	303.18
60	188.90	198.62	227.02
65	111.71	117.77	131.13
70	25.01	28.28	36.15
75	66.47	70.58	72.17
80	156.72	164.89	169.15
85	239.10	251.28	262.08
90	307.18	322.71	332.20
95	355.51	373.43	395.52
100	380.43	399.59	426.48
105	380.50	399.67	426.39
110	356.67	374.65	402.69
115	312.02	327.79	359.26
120	251.21	263.98	295.38
125	179.83	189.11	208.16
130	103.56	109.25	114.51
135	27.60	30.82	53.97
140	43.88	47.25	64.78
145	107.90	113.78	117.91
150	162.75	171.21	173.20
155	207.84	218.49	223.32
160	243.41	255.79	265.73
165	270.24	283.95	298.53
170	289.39	304.04	321.12
175	301.92	317.19	333.94

Azimuth	E_{theo}	E_{std}	E_{aug}
180	308.68	324.29	338.25
185	310.21	325.89	335.53
190	306.63	322.13	327.34
195	297.64	312.70	314.95
200	282.58	296.90	298.65
205	260.49	273.71	275.29
210	230.28	242.02	243.18
215	190.98	200.80	201.41
220	141.97	149.44	149.56
225	83.32	88.11	88.20
230	16.04	19.85	36.98
235	57.65	61.44	61.44
240	134.31	141.41	141.41
245	209.28	220.00	254.68
250	277.13	291.17	324.23
255	332.11	348.87	350.39
260	368.92	387.51	387.98
265	383.45	402.76	403.38
270	373.42	392.23	392.85
275	338.83	355.92	356.38
280	282.05	296.33	297.19
285	207.52	218.15	237.39
290	121.18	127.67	152.96
295	29.66	32.87	32.87
300	60.56	64.45	64.45
305	143.94	151.51	151.51
310	216.35	227.41	227.41
315	275.33	289.29	341.11
320	320.10	336.27	392.41
325	351.32	369.03	380.20
330	370.68	389.36	410.98
335	380.55	399.72	434.75
340	383.55	402.86	448.03
345	382.23	401.47	450.62
350	378.87	397.95	447.11
355	375.30	394.20	443.01

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.

20 Nov 2009

Prepared by Audio Division, Media Bureau
Federal Communications Commission