WTSO MADISON, WI BP-20160328ABF 1070 kHz

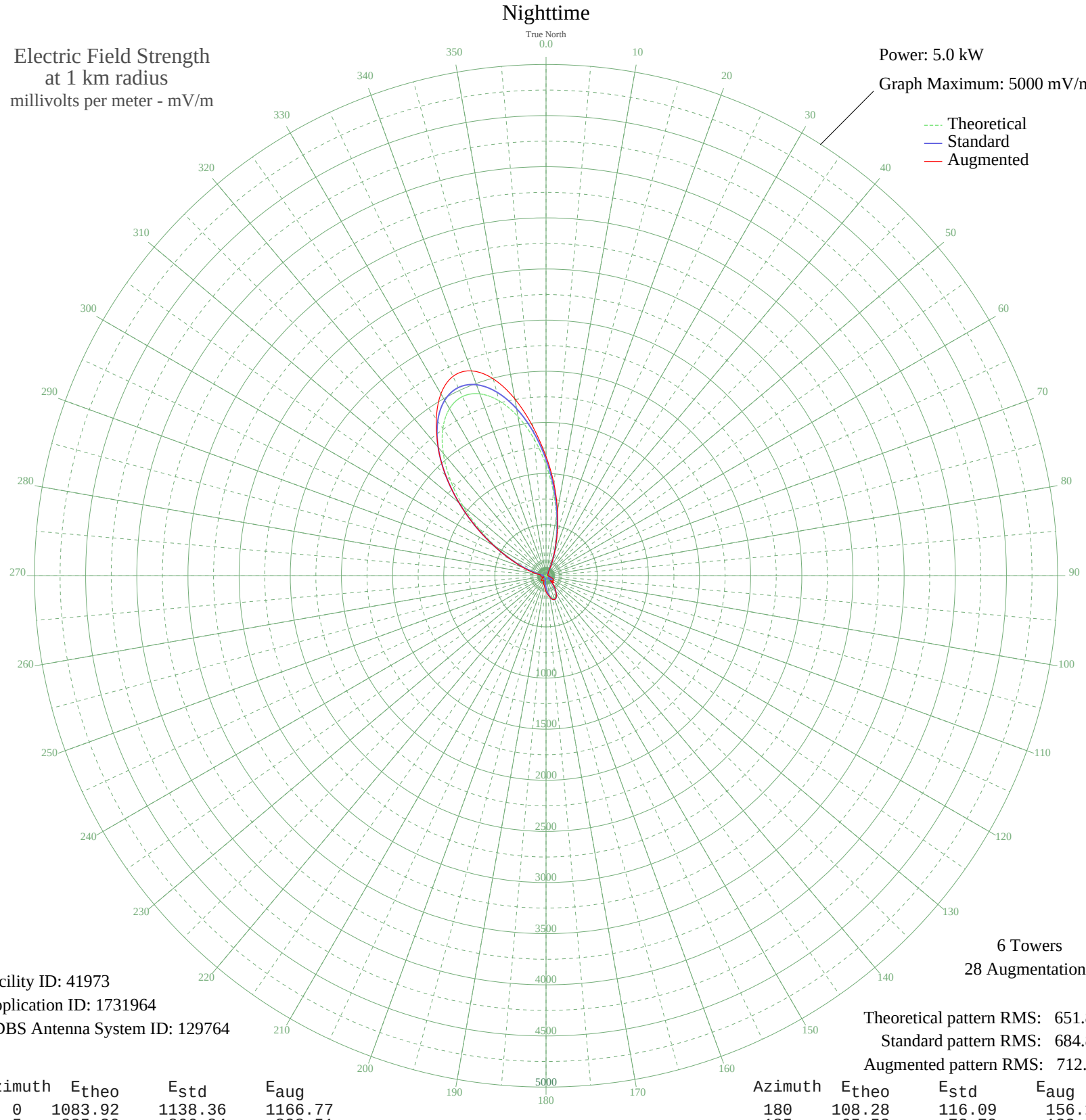
Nighttime

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

Power: 5.0 kW

Graph Maximum: 5000 mV/m

Theoretical
Standard
Augmented



6 Towers
28 Augmentations

Facility ID: 41973
Application ID: 1731964
CDBS Antenna System ID: 129764

Theoretical pattern RMS: 651.80
Standard pattern RMS: 684.80
Augmented pattern RMS: 712.20

Azimuth	E_{theo}	E_{std}	E_{aug}
0	1083.92	1138.36	1166.77
5	825.26	866.84	898.51
10	587.74	617.57	643.54
15	385.68	405.65	417.30
20	226.81	239.31	239.31
25	112.52	120.46	120.46
30	39.08	47.28	52.64
35	0.74	23.49	38.64
40	15.88	28.80	34.79
45	15.42	28.52	26.93
50	7.42	24.74	25.74
55	1.88	23.56	19.15
60	8.39	25.08	16.14
65	10.19	25.80	20.06
70	7.34	24.71	20.49
75	1.44	23.53	19.08
80	4.94	24.05	16.07
85	8.87	25.26	16.48
90	7.81	24.87	19.22
95	0.31	23.48	23.48
100	13.42	27.38	27.38
105	31.17	40.28	40.28
110	48.85	56.41	56.41
115	61.12	68.34	77.79
120	62.47	69.67	84.58
125	48.63	56.21	84.53
130	17.96	30.11	98.11
135	27.72	37.40	73.82
140	82.97	90.22	101.16
145	139.62	148.47	155.36
150	188.51	199.32	199.32
155	221.55	233.81	233.81
160	233.62	246.42	246.42
165	223.72	236.08	238.61
170	195.04	206.13	211.50
175	153.94	163.33	183.86

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.

3 Feb 2017

Prepared by Audio Division, Media Bureau
Federal Communications Commission

Azimuth	E_{theo}	E_{std}	E_{aug}
180	108.28	116.09	156.10
185	65.53	72.70	122.49
190	31.21	40.31	97.20
195	8.10	24.97	86.73
200	3.85	23.82	65.16
205	6.86	24.56	48.28
210	4.34	23.92	47.24
215	0.12	23.48	50.95
220	3.68	23.79	60.95
225	4.68	23.99	63.86
230	2.85	23.67	57.60
235	0.89	23.50	45.21
240	4.86	24.03	30.99
245	7.13	24.64	25.16
250	6.15	24.35	37.08
255	1.44	23.53	47.22
260	5.90	24.28	49.11
265	12.69	26.99	50.87
270	13.47	27.41	48.65
275	0.64	23.49	50.43
280	34.89	43.52	68.46
285	102.62	110.27	145.67
290	210.68	222.46	243.62
295	363.95	382.87	385.80
300	562.07	590.64	590.64
305	797.99	838.22	838.22
310	1057.57	1110.70	1110.70
315	1320.46	1386.68	1386.68
320	1562.34	1640.62	1640.62
325	1758.36	1846.42	1869.84
330	1887.02	1981.51	2055.11
335	1933.76	2030.58	2151.84
340	1893.38	1988.19	2132.38
345	1770.93	1859.63	1993.73
350	1580.69	1659.90	1756.44
355	1343.63	1411.01	1460.77