WWJZ HORSHAM TOWNSHIP, PA BMJP-20040129AHX 640 kHz

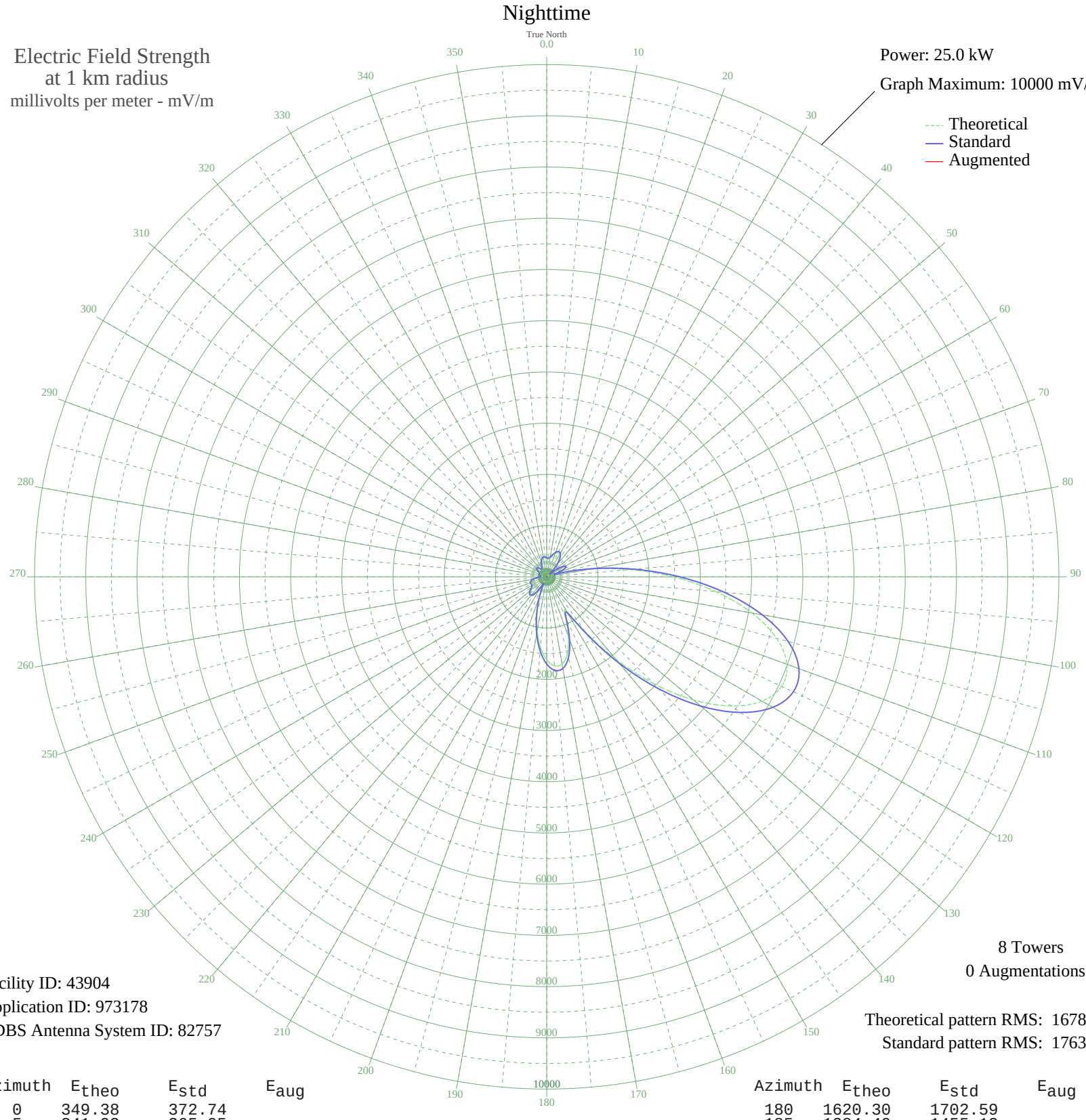
Nighttime

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

Power: 25.0 kW

Graph Maximum: 10000 mV/m

Theoretical
Standard
Augmented



8 Towers
0 Augmentations

Facility ID: 43904
Application ID: 973178
CDBS Antenna System ID: 82757

Theoretical pattern RMS: 1678.40
Standard pattern RMS: 1763.60

Azimuth	E_{theo}	E_{std}	E_{aug}
0	349.38	372.74	
5	341.93	365.05	
10	367.27	391.25	
15	422.36	448.36	
20	481.43	509.79	
25	515.63	545.42	
30	502.31	531.54	
35	427.90	454.12	
40	290.67	312.27	
45	103.62	127.27	
50	104.36	127.94	
55	288.46	310.00	
60	395.18	420.16	
65	371.11	395.22	
70	188.75	208.89	
75	289.10	310.65	
80	874.11	920.19	
85	1628.40	1711.09	
90	2472.05	2596.50	
95	3316.75	3483.21	
100	4070.11	4274.12	
105	4648.84	4881.73	
110	4990.23	5240.16	
115	5059.65	5313.04	
120	4853.18	5096.26	
125	4395.91	4616.18	
130	3737.09	3924.50	
135	2943.98	3091.88	
140	2098.00	2203.89	
145	1304.47	1371.28	
150	775.52	816.97	
155	858.17	903.50	
160	1238.87	1302.49	
165	1556.90	1636.08	
170	1728.71	1816.35	
175	1744.64	1833.07	

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 Jun 2007

Prepared by Audio Division, Media Bureau
Federal Communications Commission

Azimuth	E_{theo}	E_{std}	E_{aug}
180	1620.30	1702.59	
185	1384.40	1455.12	
190	1073.13	1128.72	
195	726.31	765.47	
200	385.74	410.37	
205	121.96	144.08	
210	215.95	236.17	
215	369.34	393.39	
220	446.07	473.01	
225	448.92	475.97	
230	401.63	426.85	
235	342.38	365.52	
240	310.69	332.84	
245	313.71	335.95	
250	320.03	342.46	
255	300.26	322.12	
260	246.48	267.09	
265	169.60	189.92	
270	97.95	122.22	
275	83.17	109.49	
280	111.52	134.43	
285	126.60	148.42	
290	124.46	146.42	
295	130.26	151.88	
300	163.20	183.64	
305	206.11	226.26	
310	233.46	253.87	
315	230.99	251.37	
320	199.09	219.22	
325	158.91	179.45	
330	159.10	179.63	
335	216.48	236.70	
340	288.54	310.07	
345	343.88	367.07	
350	369.83	393.89	
355	367.08	391.04	