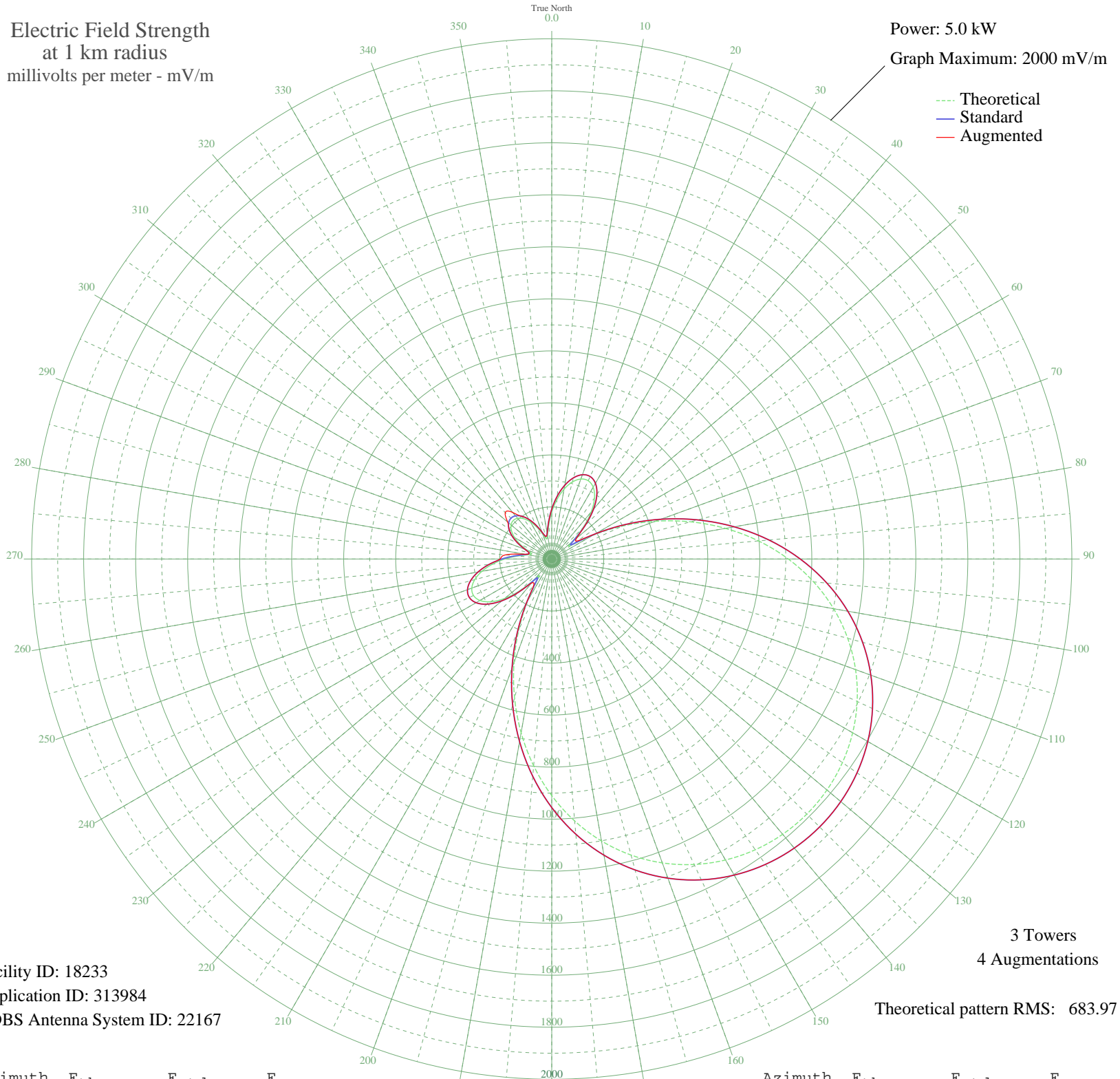


# WSAN ALLENTOWN, PA BL-- 1470 kHz

Nighttime

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

Power: 5.0 kW  
Graph Maximum: 2000 mV/m



Facility ID: 18233  
Application ID: 313984  
CDBS Antenna System ID: 22167

3 Towers  
4 Augmentations  
Theoretical pattern RMS: 683.97

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	180.18	191.45	191.45
5	229.15	242.39	242.39
10	272.64	287.76	287.76
15	306.46	323.11	323.11
20	327.16	344.77	344.77
25	331.94	349.77	349.77
30	318.79	336.01	336.01
35	286.71	302.47	302.47
40	236.04	249.57	249.57
45	169.63	180.51	180.51
50	99.78	108.79	124.48
55	92.26	101.21	121.50
60	181.25	192.56	193.08
65	298.54	314.84	314.84
70	424.50	446.69	446.69
75	552.47	580.84	580.84
80	678.11	712.62	712.62
85	798.04	838.45	838.45
90	909.64	955.57	955.57
95	1010.99	1061.94	1061.94
100	1100.79	1156.20	1156.20
105	1178.32	1237.59	1237.59
110	1243.32	1305.81	1305.81
115	1295.84	1360.95	1360.95
120	1336.15	1403.27	1403.27
125	1364.60	1433.13	1433.13
130	1381.52	1450.89	1450.89
135	1387.13	1456.78	1456.78
140	1381.52	1450.89	1450.89
145	1364.60	1433.13	1433.13
150	1336.15	1403.27	1403.27
155	1295.84	1360.95	1360.95
160	1243.32	1305.81	1305.81
165	1178.32	1237.59	1237.59
170	1100.79	1156.20	1156.20
175	1010.99	1061.94	1061.94

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.

10 Nov 2011

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	909.64	955.57	955.57
185	798.04	838.45	838.45
190	678.11	712.62	712.62
195	552.47	580.84	580.84
200	424.50	446.69	446.69
205	298.54	314.84	314.84
210	181.25	192.56	192.56
215	92.26	101.21	119.22
220	99.78	108.79	120.34
225	169.63	180.51	180.51
230	236.04	249.57	249.57
235	286.71	302.47	302.47
240	318.79	336.01	336.01
245	331.94	349.77	349.77
250	327.16	344.77	344.77
255	306.46	323.11	323.11
260	272.64	287.76	287.76
265	229.15	242.39	242.39
270	180.18	191.45	198.41
275	131.31	140.95	179.59
280	92.29	101.24	104.73
285	80.84	89.81	89.81
290	101.49	110.53	110.53
295	133.97	143.69	143.69
300	164.89	175.60	175.60
305	189.06	200.67	200.67
310	204.25	216.45	221.58
315	209.41	221.82	252.88
320	204.25	216.45	233.48
325	189.06	200.67	200.67
330	164.89	175.60	175.60
335	133.97	143.69	143.69
340	101.49	110.53	110.53
345	80.84	89.81	89.81
350	92.29	101.24	101.24
355	131.31	140.95	140.95