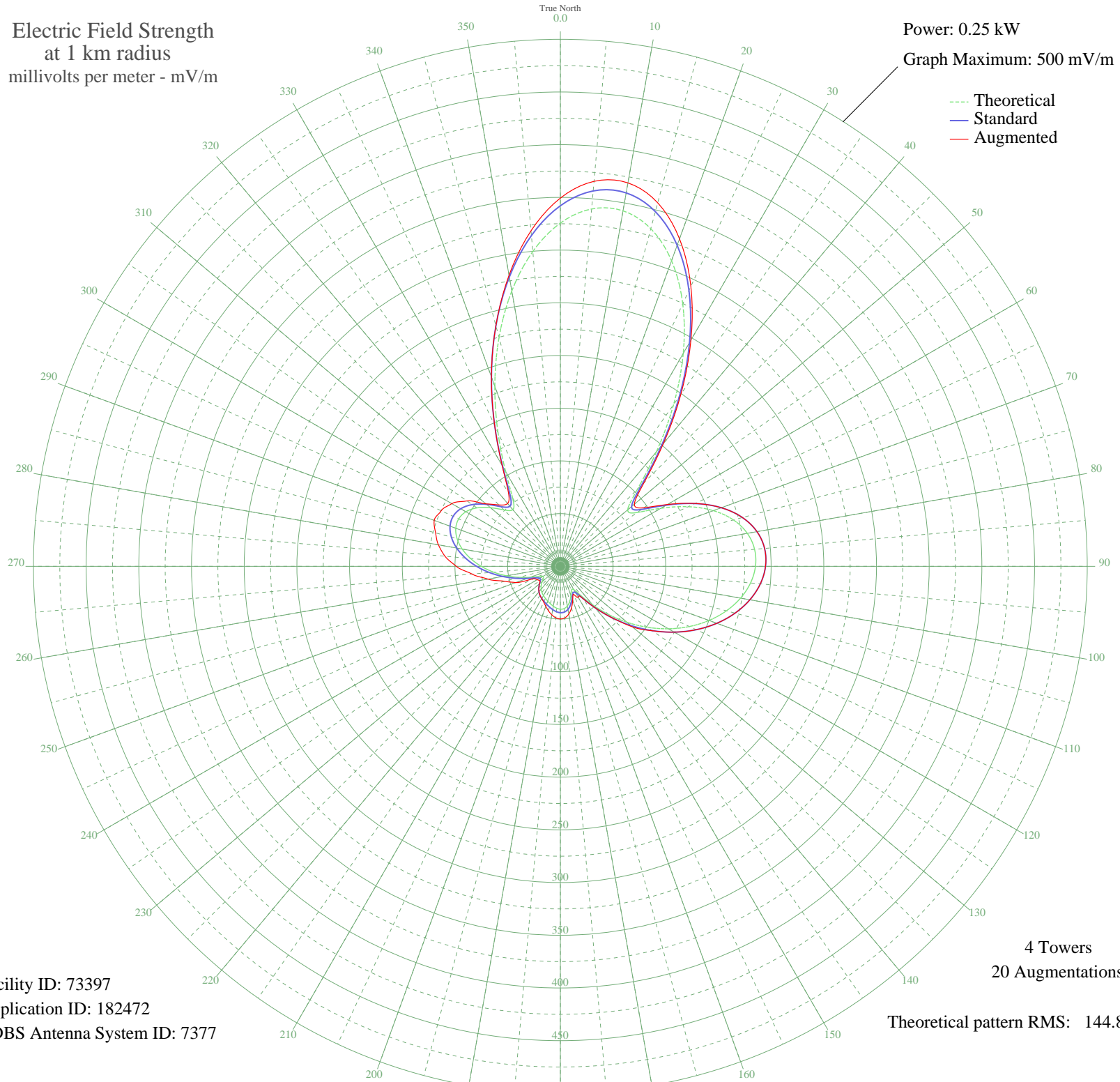


WCAR LIVONIA, MI BL-19930309AB 1090 kHz

Daytime

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

Power: 0.25 kW
Graph Maximum: 500 mV/m



Facility ID: 73397
Application ID: 182472
CDBS Antenna System ID: 7377

4 Towers
20 Augmentations
Theoretical pattern RMS: 144.84

Azimuth	Etheo	Estd	Eaug
0	325.62	342.06	349.33
5	340.31	357.48	366.61
10	342.45	359.73	369.36
15	331.63	348.37	357.01
20	308.52	324.12	330.62
25	274.85	288.78	293.04
30	233.28	245.17	247.82
35	187.38	197.03	199.54
40	141.81	149.27	152.23
45	103.47	109.15	112.41
50	83.40	88.20	91.64
55	89.03	94.07	96.88
60	110.12	116.10	117.30
65	133.86	140.94	141.11
70	154.50	162.57	162.57
75	170.08	178.89	178.89
80	180.18	189.48	189.48
85	185.04	194.58	194.58
90	185.17	194.71	194.71
95	181.17	190.52	190.52
100	173.65	182.63	182.63
105	163.15	171.63	171.63
110	150.15	158.01	158.01
115	135.12	142.26	142.26
120	118.50	124.87	124.87
125	100.78	106.34	106.52
130	82.56	87.32	89.41
135	64.56	68.59	68.59
140	47.80	51.27	51.27
145	33.86	37.07	37.07
150	25.45	28.71	33.90
155	24.85	28.13	29.15
160	29.28	32.49	34.22
165	34.40	37.62	40.82
170	38.22	41.49	46.00
175	40.27	43.56	49.05

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.

03 Jul 2009

Prepared by Audio Division, Media Bureau
Federal Communications Commission

Azimuth	Etheo	Estd	Eaug
180	40.68	43.99	49.94
185	39.89	43.19	49.01
190	38.42	41.68	46.72
195	36.70	39.94	43.64
200	35.03	38.25	40.36
205	33.51	36.72	37.44
210	32.05	35.25	35.27
215	30.42	33.62	33.62
220	28.34	31.56	31.56
225	25.65	28.90	28.90
230	22.45	25.81	25.81
235	19.57	23.08	23.83
240	18.95	22.50	25.37
245	22.61	25.96	27.52
250	30.28	33.48	45.06
255	40.42	43.72	54.72
260	51.80	55.39	69.78
265	63.56	67.56	84.12
270	75.03	79.48	98.81
275	85.57	90.46	109.92
280	94.58	99.86	117.50
285	101.46	107.05	122.58
290	105.61	111.38	127.40
295	106.44	112.26	124.74
300	103.52	109.20	118.95
305	96.68	102.06	108.15
310	86.57	91.51	92.15
315	75.66	80.13	82.38
320	70.13	74.38	77.82
325	78.78	83.38	86.04
330	103.86	109.55	110.52
335	140.06	147.44	147.51
340	181.82	191.20	191.20
345	224.78	236.25	236.31
350	265.24	278.70	280.41
355	299.83	315.00	319.51