TABLE I

Computation of Signal Level
on the Ground
W234AY CP MOD
HIGHLAND, NY

JULY, 2007

Depression Angle, Degrees	Relative Field	ERP Watts	dBk	Distance to the Ground in Kilometers	Free Space Signal
90	0.001	0.0000	-80.0	0.0259	58.7
85	0.096	0.0922	-40.4	0.0260	98.3
80	0.186	0.3460	-34.6	0.0263	103.9
75	0.273	0.7453	-31.3	0.0268	107.1
70	0.357	1.2745	-28.9	0.0276	109.2
65	0.437	1.9097	-27.2	0.0286	110.6
60	0.514	2.6420	-25.8	0.0299	111.6
55	0.586	3.4340	-24.6	0.0316	112.3
50	0.654	4.2772	-23.7	0.0338	112.7
45	0.717	5.1409	-22.9	0.0366	112.8
40	0.774	5.9908	-22.2	0.0403	112.6
35	0.826	6.8228	-21.7	0.0452	112.2
30	0.871	7.5864	-21.2	0.0518	111.4
25	0.910	8.2810	-20.8	0.0613	110.4
20	0.942	8.8736	-20.5	0.0757	108.8
15	0.967	9.3509	-20.3	0.1001	106.6
10	0.985	9.7023	-20.1	0.1492	103.3
5	0.996	9.9202	-20.0	0.2972	97.4

Notes:

Antenna radiation center above ground (meters):   25.9

Maximum ERP (watts) at 0° Depression angle: 10

Free Space Signal = 106.92 -20*log(distance in km) + dBk

Relative field based on one bay antenna.