

**Table II**

**Computation of Signal Level  
on the Ground  
from Proposed W219BA on CH 293D  
Ridge, NY**

**July, 2010**

Depression Angle, Degrees	Relative Field	ERP Watts	dBk	Distance to the Ground in Kilometers	Free Space Signal
90	0.001	0.0001	-71.5	0.1350	52.8
85	0.096	0.6451	-31.9	0.1355	92.4
80	0.186	2.4217	-26.2	0.1371	98.0
75	0.273	5.2170	-22.8	0.1398	101.2
70	0.357	8.9214	-20.5	0.1437	103.3
65	0.437	13.3678	-18.7	0.1490	104.7
60	0.514	18.4937	-17.3	0.1559	105.7
55	0.586	24.0377	-16.2	0.1648	106.4
50	0.654	29.9401	-15.2	0.1762	106.8
45	0.717	35.9862	-14.4	0.1909	106.9
40	0.774	41.9353	-13.8	0.2100	106.7
35	0.826	47.7593	-13.2	0.2354	106.3
30	0.871	53.1049	-12.7	0.2700	105.5
25	0.910	57.9670	-12.4	0.3194	104.5
20	0.942	62.1155	-12.1	0.3947	102.9
15	0.967	65.4562	-11.8	0.5216	100.7
10	0.985	67.9158	-11.7	0.7774	97.4
5	0.996	69.4411	-11.6	1.5490	91.5

**Notes:**

Antenna radiation center above ground (meters): 135  
Maximum ERP (watts) at 0° Depression angle: 70  
Free Space Signal =  $106.92 - 20 \cdot \log(\text{distance in km}) + \text{dBk}$   
Relative field based on one bay antenna.