



SYSTEMS WITH RELIABILITY, INC.
Broadcast Antennas and Transmission Systems

WVTV-FM Antenna RMS Comparison

PROPOSED ANTENNA

Azimuth Heading	Relative Field
0	1.000
10	1.000
20	1.000
30	1.000
40	1.000
50	1.000
60	1.000
70	0.900
80	0.900
90	0.900
100	0.900
110	0.800
120	0.800
130	0.700
140	0.600
150	0.550
160	0.550
170	0.550
180	0.550
190	0.550
200	0.600
210	0.700
220	0.800
230	0.900
240	1.000
250	1.000
260	1.000
270	1.000
280	1.000
290	1.000
300	1.000
310	1.000
320	1.000
330	1.000
340	1.000
350	1.000

Sum of Relative Field Squared: 28.183
Sum Divided by 72 (Readings): 0.391
Square Root: 0.626

DESIGNED ANTENNA

Azimuth Heading	Relative Field
0	0.910
10	0.920
20	0.920
30	0.930
40	0.940
50	0.950
60	0.940
70	0.900
80	0.900
90	0.900
100	0.900
110	0.800
120	0.690
130	0.600
140	0.530
150	0.490
160	0.480
170	0.460
180	0.440
190	0.420
200	0.420
210	0.460
220	0.550
230	0.670
240	0.780
250	0.870
260	0.940
270	0.990
280	1.000
290	0.990
300	0.960
310	0.950
320	0.940
330	0.930
340	0.920
350	0.910

Sum of Relative Field Squared: 23.700
Sum Divided by 72 (Readings): 0.329
Square Root: 0.574

Percentage of Construction Permit Antenna Filled :

91.70 %