

WBGX REV
ANTENNA ARRAY PROGRAM

5000.0 WATTS

1570.0 KHZ.

TOWER	FIELD RATIO	PHASE DEGREES	SPACING DEGREES	BEARING DEGREES	HEIGHT DEGREES	TOP-LOADING DEGREES
1	1.000	.00	.00	.00	86.50	.00
2	1.690	1.10	207.80	135.70	86.50	.00
3	.813	6.30	410.00	135.00	86.50	.00
4	.950	-99.70	80.00	48.80	86.50	.00
5	1.484	-88.50	231.60	111.30	86.50	.00
6	.923	-86.20	426.30	124.30	86.50	.00

RADIATION VALUES COMPUTED BELOW ARE AT A DISTANCE OF ONE KILOMETER

ERMS THEORETICAL	=	633.53	MV/M	ERMS STANDARD	=	665.62	MV/M
K NO LOSS	=	293.93	MV/M	K WITH LOSSES	=	287.37	MV/M
ERSS NO LOSS	=	855.61	MV/M	ERSS WITH LOSSES	=	836.52	MV/M
GROUND LOSS	=	1.00	OHMS	GROUND LOSSES	=	230.84	WATTS
ARRAY Q	=	22.36		ERSS/ERMS	=	1.32	

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STANDARD PATTERN RADIATION AT .0 DEGREES ELEVATION

BEARING DEGREES	FIELD MV/M	BEARING DEGREES	FIELD MV/M	BEARING DEGREES	FIELD MV/M	BEARING DEGREES	FIELD MV/M
.0	173.44	90.0	95.69	180.0	92.12	270.0	68.15
5.0	320.09	95.0	119.28	185.0	92.33	275.0	74.65
10.0	534.24	100.0	148.25	190.0	106.48	280.0	78.14
15.0	800.48	105.0	153.29	195.0	124.43	285.0	77.24
20.0	1098.43	110.0	141.84	200.0	135.54	290.0	72.01
25.0	1400.93	115.0	125.20	205.0	134.30	295.0	64.29
30.0	1676.22	120.0	111.76	210.0	120.43	300.0	57.53
35.0	1892.35	125.0	103.64	215.0	97.91	305.0	54.84
40.0	2022.43	130.0	97.81	220.0	73.79	310.0	55.86
45.0	2049.40	135.0	91.33	225.0	55.96	315.0	57.19
50.0	1969.23	140.0	85.12	230.0	48.21	320.0	56.53
55.0	1791.68	145.0	83.77	235.0	46.14	325.0	55.98
60.0	1538.46	150.0	90.68	240.0	44.37	330.0	61.90
65.0	1239.24	155.0	103.08	245.0	42.62	335.0	77.12
70.0	926.59	160.0	114.45	250.0	43.18	340.0	95.31
75.0	630.97	165.0	119.21	255.0	47.00	345.0	106.64
80.0	377.40	170.0	114.88	260.0	53.11	350.0	105.50
85.0	186.59	175.0	103.34	265.0	60.48	355.0	108.89