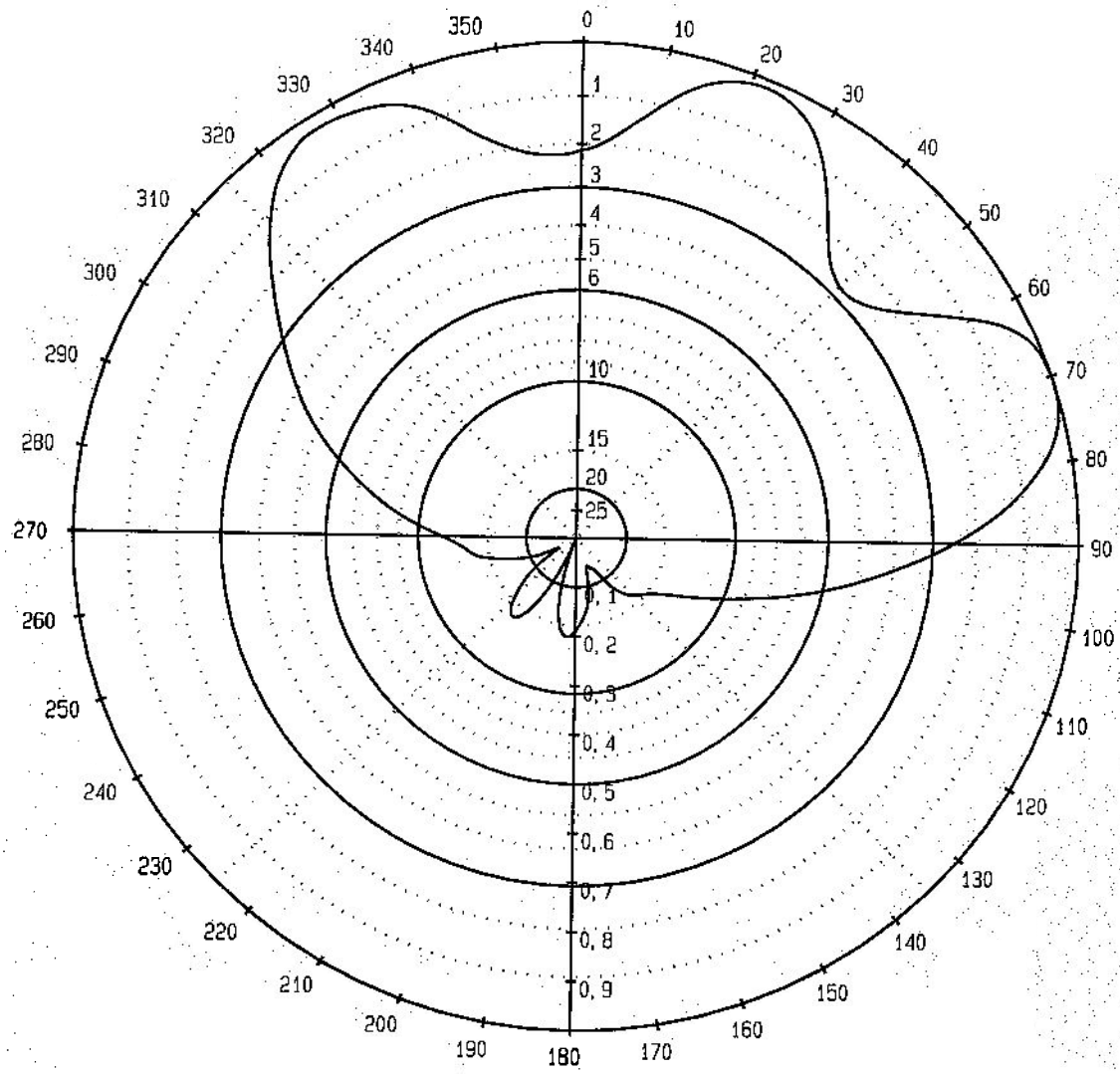


frequency in MHz 181.250
down-tilt in ° 3.0
max / mean in dB 4.34

Wyoming Public Television

S C A L A Medford Oregon	2 x 2 K52 33 57 Panel Array	Typ Nr.
MB 3.6. 8 11:23	Channel - 8	Bl.:

simulation with typical exactness of +/- 8% of max signal

Azimuth Radiation Pattern in % and dB at downtilt: 3.0

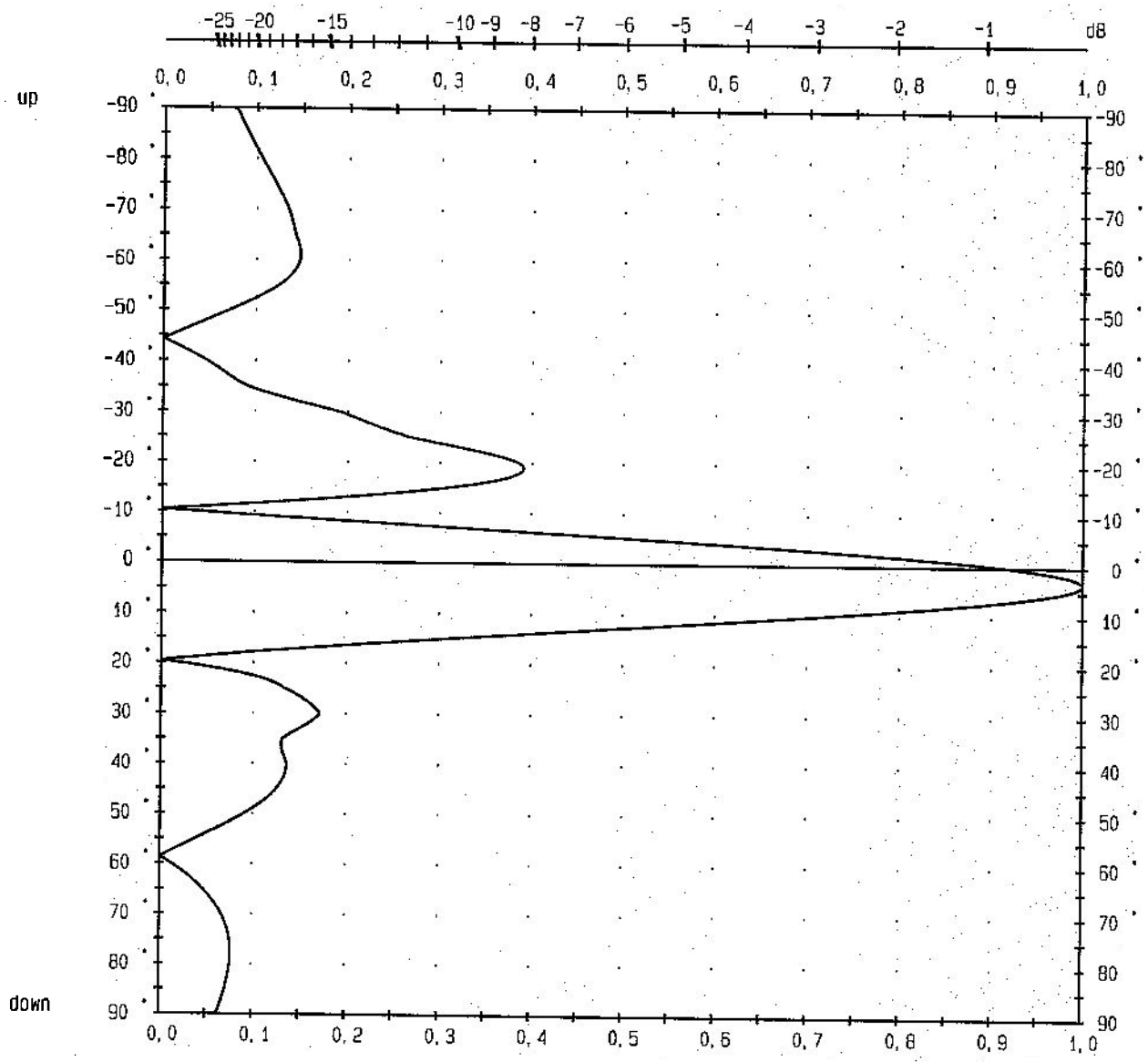
f = 181.250MHz

azimuth	%	dB	azimuth	%	dB
0	78.1	-2.1	180	18.9	-14.5
5	81.7	-1.8	185	20.1	-14.0
10	88.4	-1.1	190	18.2	-14.8
15	94.9	-.5	195	12.4	-18.2
20	98.0	-.2	200	3.4	-29.5
25	97.6	-.2	205	6.0	-24.4
30	93.3	-.6	210	14.7	-16.6
35	85.0	-1.4	215	19.7	-14.1
40	76.6	-2.3	220	20.2	-13.9
45	72.8	-2.8	225	17.2	-15.3
50	74.3	-2.6	230	13.2	-17.6
55	80.7	-1.9	235	8.3	-21.6
60	90.5	-.9	240	3.9	-28.2
65	98.1	-.2	245	8.9	-21.0
70	99.9	.0	250	12.7	-17.9
75	99.0	-.1	255	17.0	-15.4
80	94.0	-.5	260	20.8	-13.6
85	85.7	-1.3	265	23.0	-12.8
90	75.0	-2.5	270	26.9	-11.4
95	63.5	-3.9	275	33.1	-9.6
100	53.1	-5.5	280	39.7	-8.0
105	43.4	-7.3	285	46.2	-6.7
110	34.7	-9.2	290	53.2	-5.5
115	28.0	-11.1	295	60.1	-4.4
120	22.8	-12.8	300	66.3	-3.6
125	19.3	-14.3	305	72.8	-2.8
130	17.5	-15.1	310	80.0	-1.9
135	16.2	-15.8	315	87.4	-1.2
140	14.4	-16.8	320	93.6	-.6
145	11.4	-18.9	325	97.0	-.3
150	7.6	-22.4	330	96.9	-.3
155	6.8	-23.4	335	95.3	-.4
160	6.0	-24.4	340	91.2	-.8
165	9.4	-20.6	345	84.2	-1.5
170	13.8	-17.2	350	79.4	-2.0
175	16.5	-15.6	355	77.4	-2.2
180	18.9	-14.5	360	78.1	-2.1

maximum fieldstrength was found at:
azimuth 71.
downtilt 3.

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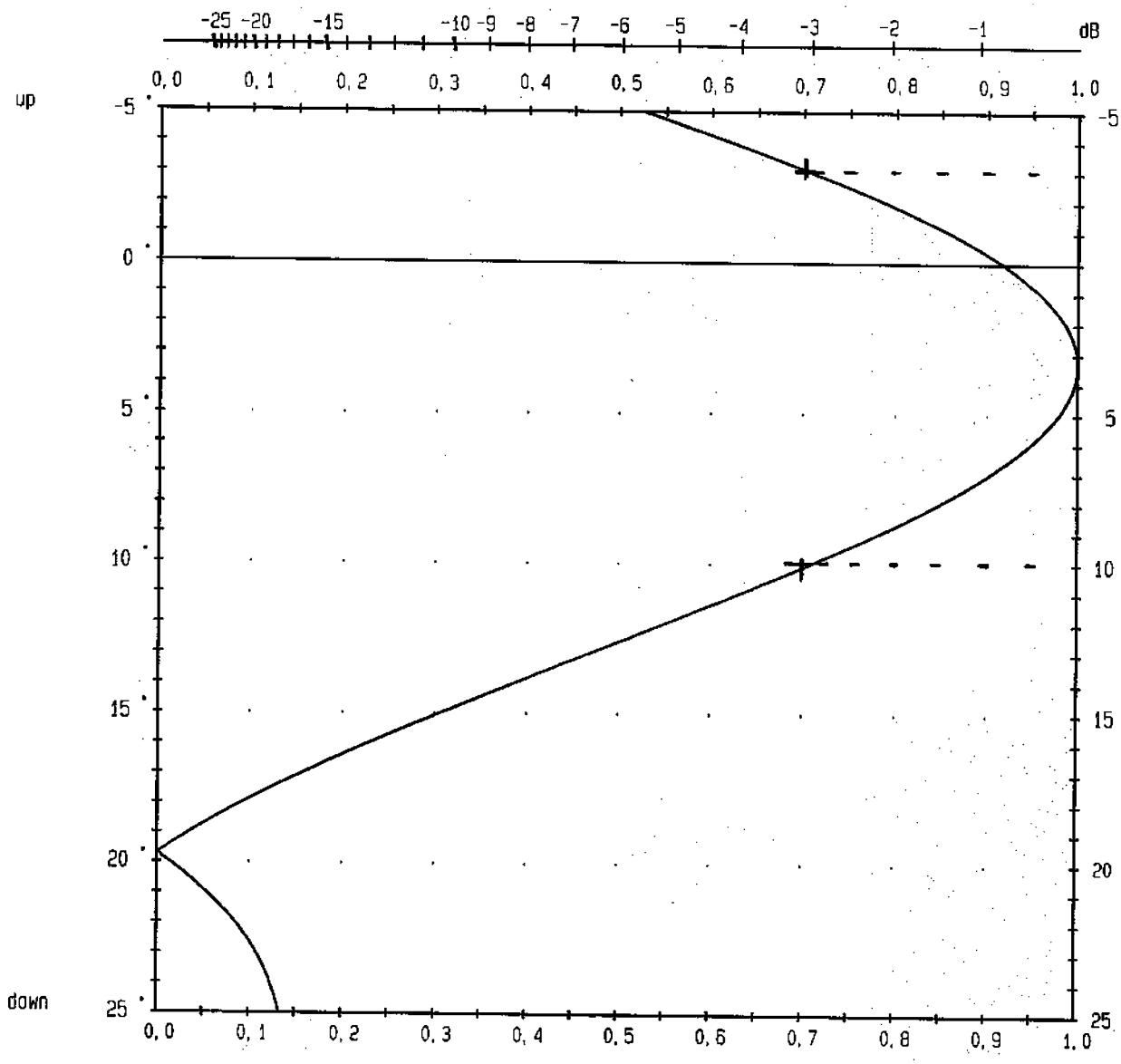
S C A L A Medford Oregon	2 x 2 K52 33 57 Panel Array	Typ Nr.
MB 3.6. 8 11:23	Channel - 8	Bl.:



frequency in MHz 181.250
azimut in ° 22.0
omni-dir in dBd 6.50

Wyoming Public Television

S C A L A Medford Oregon	2 x 2 K52 33 57 Panel Array	Typ Nr.
MB 3.6. 8 11:21	Channel - 8	Bl.:



frequency in MHz 181.250
azimut in ° 22.0
omni-dir in dBd

Wyoming Public Television

S C A L A Medford Oregon	2 x 2 K52 33 57 Panel Array	Typ Nr.
MB 3.6. 8 11:23	Channel - 8	Bl.:

EXPANDED VERTICAL PLANE PATTERN

Dimensions and Feeding of Antenna System
antenna type: K52335. 4 straigth dipole panel 174-230 MHz

operating f in MHz	181.250	.000	.000	.000	.000
operating channels	8	0	0	0	0

database f in MHz : 181
max. azimut angle 180 max. declination 90 cable design frequency: 183.000 MHz

compensation in % :	99.13	.00	.00	.00	.00

bay	height	v-feed power	cab-ph	fix-ph	panel	azipos	azidir	radius	tanoff	radoff	tilt	power	cab-ph	fix-ph
2	3200	1.0	55	0	1	339.0	339.0	700.0	-300.5	.0	.0	1.0	0	0
					2	65.0	65.0	700.0	-300.5	.0	.0	1.0	90	0
bay	height	v-feed power	cab-ph	fix-ph	panel	azipos	azidir	radius	tanoff	radoff	tilt	power	cab-ph	fix-ph
1	0	1.0	0	0	1	339.0	339.0	700.0	-300.5	.0	.0	1.0	0	0
					2	65.0	65.0	700.0	-300.5	.0	.0	1.0	90	0

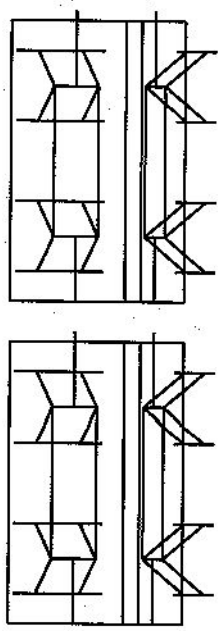
Directivity from HRP and zoomed VRP

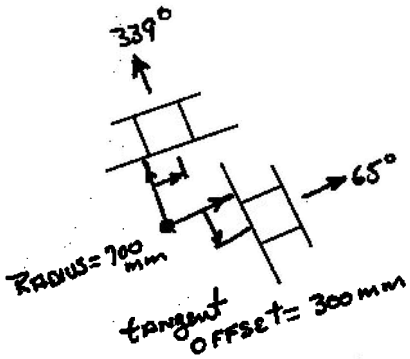
operating f in MHz :	181.250	.000	.000	.000	.000
operating channel :	8	0	0	0	0
HRP max/mean in dB :	4.34	.00	.00	.00	.00
VRP omnidir in dB :	6.50	.00	.00	.00	.00
directivity in dB :	10.84	.00	.00	.00	.00
harness losses :	.00	.00	.00	.00	.00
gain in dB :	10.84	.00	.00	.00	.00

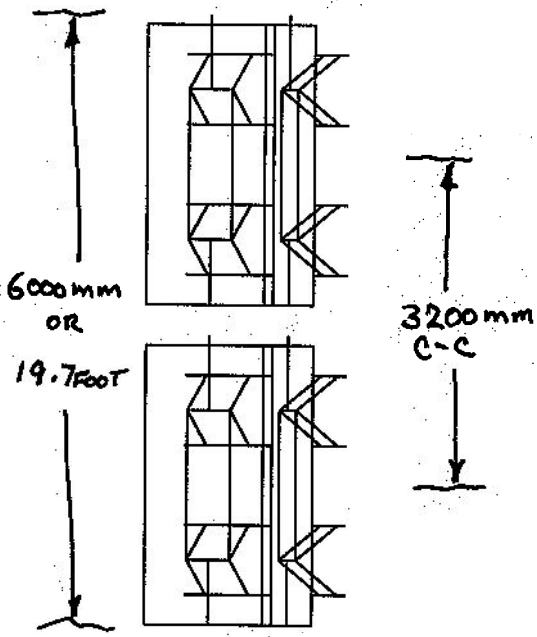
allow +-0.5 dB tolerance for pattern variations
harness parameters at cable design frequency:
bay feeder : .0 m áAAα@└@ (a = .00 dB)
antenna cable: .0 m áAAα@└@ (a = .00 dB)

Wyoming Public Television

S C A L A Medford Oregon	2 x 2 K52 33 57 Panel Array	Typ Nr.
MB 3.6. 8 11:23	Channel - 8	Bl.:







1 meter
mast size in mm 100. direction 0.
offset north 0. east 0.

Wyoming Public Television

S C A L A Medford Oregon	2 x 2 K52 33 57 Panel Array	Typ Nr.
MB 3.6. 8 11:23	Channel - 8	Bl.: