

Eight FMV half-wave dipoles
 Vertical Pol, 4 each at 90 & 270 deg
 Gain: 3.9 dBd.

Eight FMV half-wave dipoles
 Horizontal Pol, 4 each at 0 & 180 deg
 Gain: 3.8 dBd
 Horizontal plane Pattern

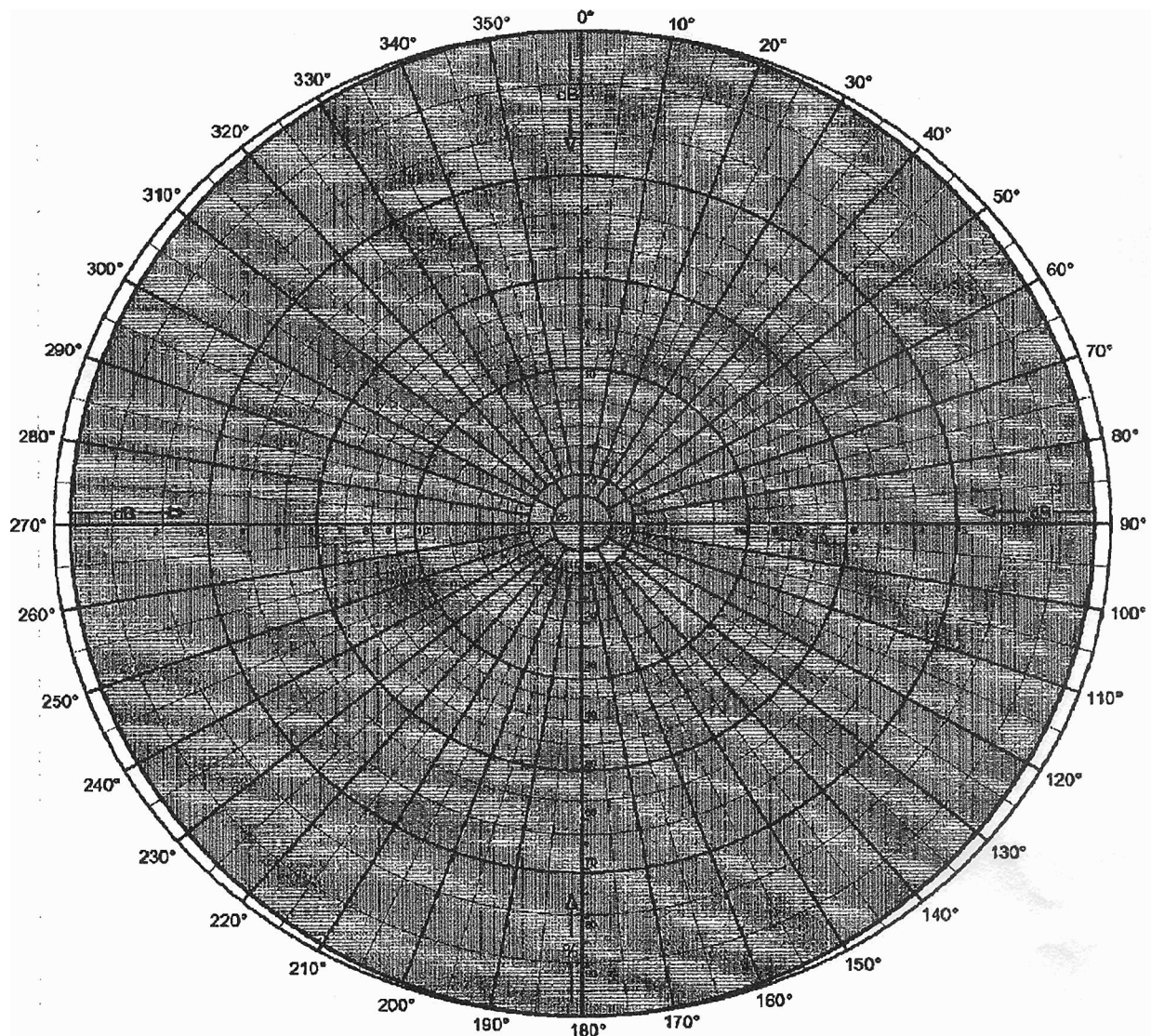




Four FMV Vertical Half-wave dipoles
oriented two each at 90 and 270 deg
Spaced 20" off 2.375 OD pipe/mast
Gain: 3.9 dBd.

Vertical Polarization
Horizontal plane Pattern

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	1.000	-0.00	3.90	2.45	180	1.000	-0.00	3.90	2.45
5	1.000	-0.00	3.90	2.45	185	1.000	-0.00	3.90	2.45
10	0.998	-0.02	3.88	2.44	190	0.998	-0.02	3.88	2.44
15	0.996	-0.04	3.86	2.43	195	0.996	-0.04	3.86	2.43
20	0.993	-0.07	3.83	2.42	200	0.993	-0.07	3.83	2.42
25	0.988	-0.10	3.80	2.40	205	0.988	-0.10	3.80	2.40
30	0.985	-0.13	3.77	2.38	210	0.985	-0.13	3.77	2.38
35	0.981	-0.17	3.73	2.36	215	0.981	-0.17	3.73	2.36
40	0.978	-0.19	3.71	2.35	220	0.978	-0.19	3.71	2.35
45	0.976	-0.21	3.69	2.34	225	0.976	-0.21	3.69	2.34
50	0.973	-0.24	3.66	2.32	230	0.973	-0.24	3.66	2.32
55	0.971	-0.25	3.65	2.32	235	0.971	-0.25	3.65	2.32
60	0.970	-0.26	3.64	2.31	240	0.970	-0.26	3.64	2.31
65	0.969	-0.27	3.63	2.31	245	0.969	-0.27	3.63	2.31
70	0.969	-0.27	3.63	2.31	250	0.969	-0.27	3.63	2.31
75	0.969	-0.28	3.62	2.30	255	0.969	-0.28	3.62	2.30
80	0.969	-0.27	3.63	2.30	260	0.969	-0.27	3.63	2.30
85	0.969	-0.28	3.62	2.30	265	0.969	-0.28	3.62	2.30
90	0.969	-0.28	3.62	2.30	270	0.969	-0.28	3.62	2.30
95	0.969	-0.28	3.62	2.30	275	0.969	-0.28	3.62	2.30
100	0.969	-0.27	3.63	2.30	280	0.969	-0.27	3.63	2.30
105	0.969	-0.28	3.62	2.30	285	0.969	-0.28	3.62	2.30
110	0.969	-0.27	3.63	2.31	290	0.969	-0.27	3.63	2.31
115	0.969	-0.27	3.63	2.31	295	0.969	-0.27	3.63	2.31
120	0.970	-0.26	3.64	2.31	300	0.970	-0.26	3.64	2.31
125	0.971	-0.25	3.65	2.32	305	0.971	-0.25	3.65	2.32
130	0.973	-0.24	3.66	2.32	310	0.973	-0.24	3.66	2.32
135	0.976	-0.21	3.69	2.34	315	0.976	-0.21	3.69	2.34
140	0.978	-0.19	3.71	2.35	320	0.978	-0.19	3.71	2.35
145	0.981	-0.17	3.73	2.36	325	0.981	-0.17	3.73	2.36
150	0.985	-0.13	3.77	2.38	330	0.985	-0.13	3.77	2.38
155	0.988	-0.10	3.80	2.40	335	0.988	-0.10	3.80	2.40
160	0.993	-0.07	3.83	2.42	340	0.993	-0.07	3.83	2.42
165	0.996	-0.04	3.86	2.43	345	0.996	-0.04	3.86	2.43
170	0.998	-0.02	3.88	2.44	350	0.998	-0.02	3.88	2.44
175	1.000	-0.00	3.90	2.45	355	1.000	-0.00	3.90	2.45

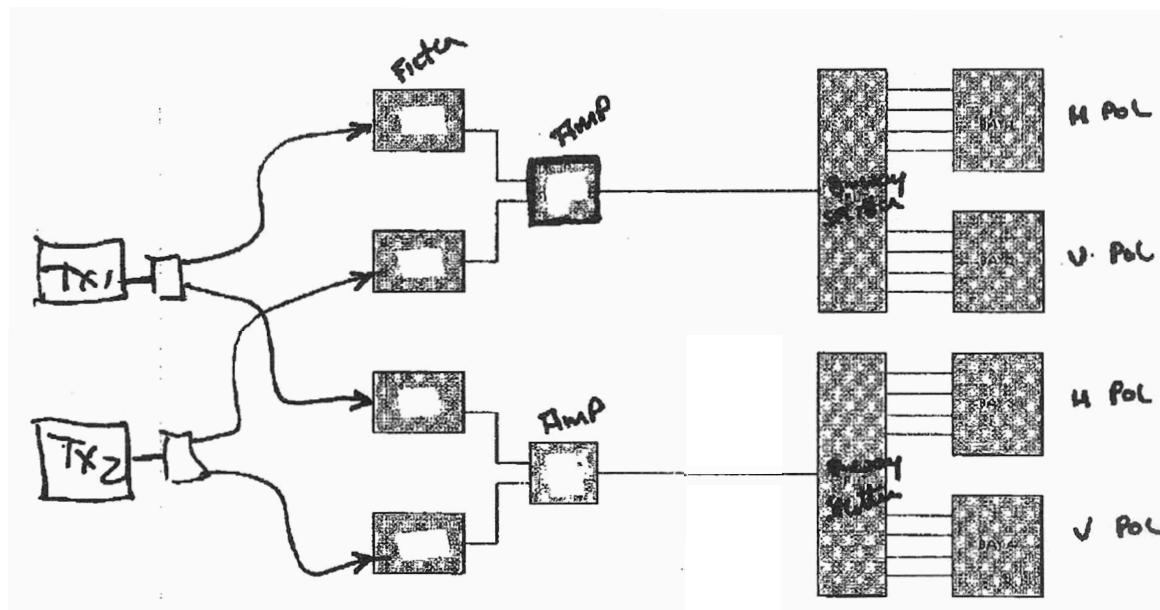


Four FMV Vertical Half-wave dipoles
oriented two each at 90 and 270 deg
Spaced 20" off 2.375 OD pipe/mast
Gain: 3.9 dBd.

Vertical Polarization
Horizontal plane Pattern



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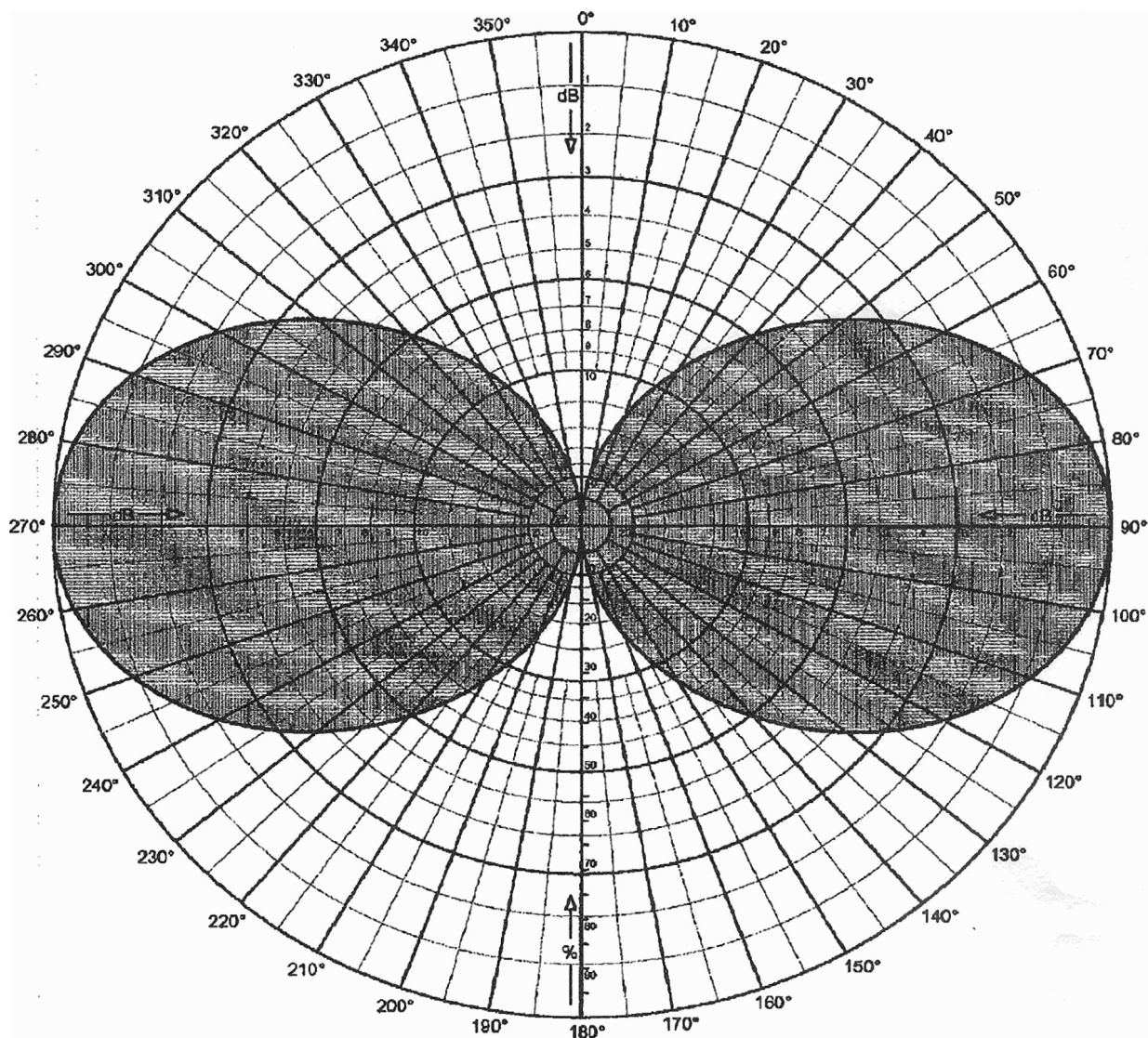




Four FMV half-wave dipole Antennas
 Oriented two each at 90 and 270 degrees
 spaced 20 inches from 1" OD horiz pipe
 Gain: 3.8 dBd.

Horizontal Polarization
 Horizontal plane Pattern

Angle	Field	Rel.dB	dBd	PwrMult	Angle	Field	Rel.dB	dBd	PwrMult
0	0.033	-29.74	-25.94	0.00	180	0.033	-29.74	-25.94	0.00
5	0.056	-25.06	-21.26	0.01	185	0.056	-25.06	-21.26	0.01
10	0.113	-18.97	-15.17	0.03	190	0.113	-18.97	-15.17	0.03
15	0.171	-15.33	-11.53	0.07	195	0.171	-15.33	-11.53	0.07
20	0.232	-12.67	-8.87	0.13	200	0.232	-12.67	-8.87	0.13
25	0.297	-10.56	-6.76	0.21	205	0.297	-10.56	-6.76	0.21
30	0.364	-8.78	-4.98	0.32	210	0.364	-8.78	-4.98	0.32
35	0.434	-7.25	-3.45	0.45	215	0.434	-7.25	-3.45	0.45
40	0.507	-5.90	-2.10	0.62	220	0.507	-5.90	-2.10	0.62
45	0.580	-4.73	-0.93	0.81	225	0.580	-4.73	-0.93	0.81
50	0.653	-3.70	0.10	1.02	230	0.653	-3.70	0.10	1.02
55	0.723	-2.82	0.98	1.25	235	0.723	-2.82	0.98	1.25
60	0.789	-2.06	1.74	1.49	240	0.789	-2.06	1.74	1.49
65	0.849	-1.42	2.38	1.73	245	0.849	-1.42	2.38	1.73
70	0.901	-0.91	2.89	1.95	250	0.901	-0.91	2.89	1.95
75	0.943	-0.51	3.29	2.13	255	0.943	-0.51	3.29	2.13
80	0.975	-0.22	3.58	2.28	260	0.975	-0.22	3.58	2.28
85	0.993	-0.06	3.74	2.37	265	0.993	-0.06	3.74	2.37
90	1.000	-0.00	3.80	2.40	270	1.000	-0.00	3.80	2.40
95	0.993	-0.06	3.74	2.37	275	0.993	-0.06	3.74	2.37
100	0.975	-0.22	3.58	2.28	280	0.975	-0.22	3.58	2.28
105	0.943	-0.51	3.29	2.13	285	0.943	-0.51	3.29	2.13
110	0.901	-0.91	2.89	1.95	290	0.901	-0.91	2.89	1.95
115	0.849	-1.42	2.38	1.73	295	0.849	-1.42	2.38	1.73
120	0.789	-2.06	1.74	1.49	300	0.789	-2.06	1.74	1.49
125	0.723	-2.82	0.98	1.25	305	0.723	-2.82	0.98	1.25
130	0.653	-3.70	0.10	1.02	310	0.653	-3.70	0.10	1.02
135	0.580	-4.73	-0.93	0.81	315	0.580	-4.73	-0.93	0.81
140	0.507	-5.90	-2.10	0.62	320	0.507	-5.90	-2.10	0.62
145	0.434	-7.25	-3.45	0.45	325	0.434	-7.25	-3.45	0.45
150	0.364	-8.78	-4.98	0.32	330	0.364	-8.78	-4.98	0.32
155	0.297	-10.56	-6.76	0.21	335	0.297	-10.56	-6.76	0.21
160	0.232	-12.67	-8.87	0.13	340	0.232	-12.67	-8.87	0.13
165	0.171	-15.33	-11.53	0.07	345	0.171	-15.33	-11.53	0.07
170	0.113	-18.97	-15.17	0.03	350	0.113	-18.97	-15.17	0.03
175	0.056	-25.06	-21.26	0.01	355	0.056	-25.06	-21.26	0.01



Four FMV half-wave dipole Antennas
 Oriented two each at 90 and 270 degrees
 spaced 20 inches from 1" OD horiz pipe
 Gain: 3.8 dBd.

Horizontal Polarization
 Horizontal plane Pattern



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