

AS-SAL-30 Operating Points											
Frequency: 1.8 MHz											
Loop Base Height: 44.5"; Loop Base Length: 360"; Loop Base Orientation: HORIZONTAL; Apex Height: 400.5"											
Primary Direction (In-Line NE/SE/SW/NW)											
Coupler Distance from Mast (in)	Delay (ns)	Length (in) (RG-6 Quad Shield vf = 79%)	RDF	Fwd Gain (Total Gain dB)	Low Angle F/B (Total Gain dB)	F/S (Total Gain dB)	F/S (Vert Gain dB)	Take-off Angle (deg)	3dB Beamwidth (Total Gain degrees)	3dB Beamwidth (Vertical Gain degrees)	Max Frequency (Approx)
127	10	99	9.66	-22	17	10	15	30	75	60	8
130	5	49	10.00	-24	8	11	12	25	70	60	9
147	19	181	9.24	-18	30	11	30	30	90	75	8
147	22	214	9.00	-17	25	10	30	30	90	75	8
158	26	247	8.87	-16	25	9	18	30	95	85	8
189	34	329	8.71	-13	30	8	13	30	100	90	7
240	51	494	8.38	-10	25	7	8	30	120	110	5
309	75	724	8.15	-7	30	6	8	30	125	115	4
351	94	905	8.06	-6	30	6	8	30	130	120	3
Secondary Direction (Off-Axis N/E/S/W)											
Coupler Distance from Mast (in)	Delay (ns)	Length (in) (RG-6 Quad Shield vf = 79%)	RDF	Fwd Gain (Total Gain dB)	Low Angle F/B (Total Gain dB)	F/S (Total Gain dB)	F/S (Vert Gain dB)	Take-off Angle (deg)	3dB Beamwidth (Total Gain degrees)	3dB Beamwidth (Vertical Gain degrees)	
127	10	99	7.54	-24	12	5	8	35	135	120	
130	5	49	7.68	-28	20	4	5	30	150	135	
147	19	181	7.71	-18	20	7	7	30	135	120	
147	22	214	7.64	-17	15	6	8	30	135	120	
158	26	247	7.69	-15	15	5	8	30	140	125	
189	34	329	7.72	-12	15	5	7	30	145	130	
240	51	494	7.61	-8	16	5	6	30	150	135	
309	75	724	7.58	-6	15	4	5	30	150	140	
351	94	905	7.62	-5	17	4	5	30	150	140	

Note: Simulation run on 4NEC2 (Ver 5.8.11)