



Base Station and Remote Antenna Information

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WiLine Networks, Inc.
San Francisco, CA

Hub Antenna Elevation	
Maximum Radiation Pattern Envelope	
Breakpoints for Antenna Relative Field change	
Elevation (degrees)	Relative Field
-89	0.100
-30	0.100
-20	0.100
-10	0.100
-8	0.269
-7	0.359
-6	0.468
-5	0.589
-4	0.708
-3	0.827
-2	0.920
-1	0.981
0	1.000
1	0.981
2	0.920
3	0.827
4	0.708
5	0.589
6	0.468
7	0.359
8	0.269
10	0.100
20	0.100
30	0.100
89	0.100

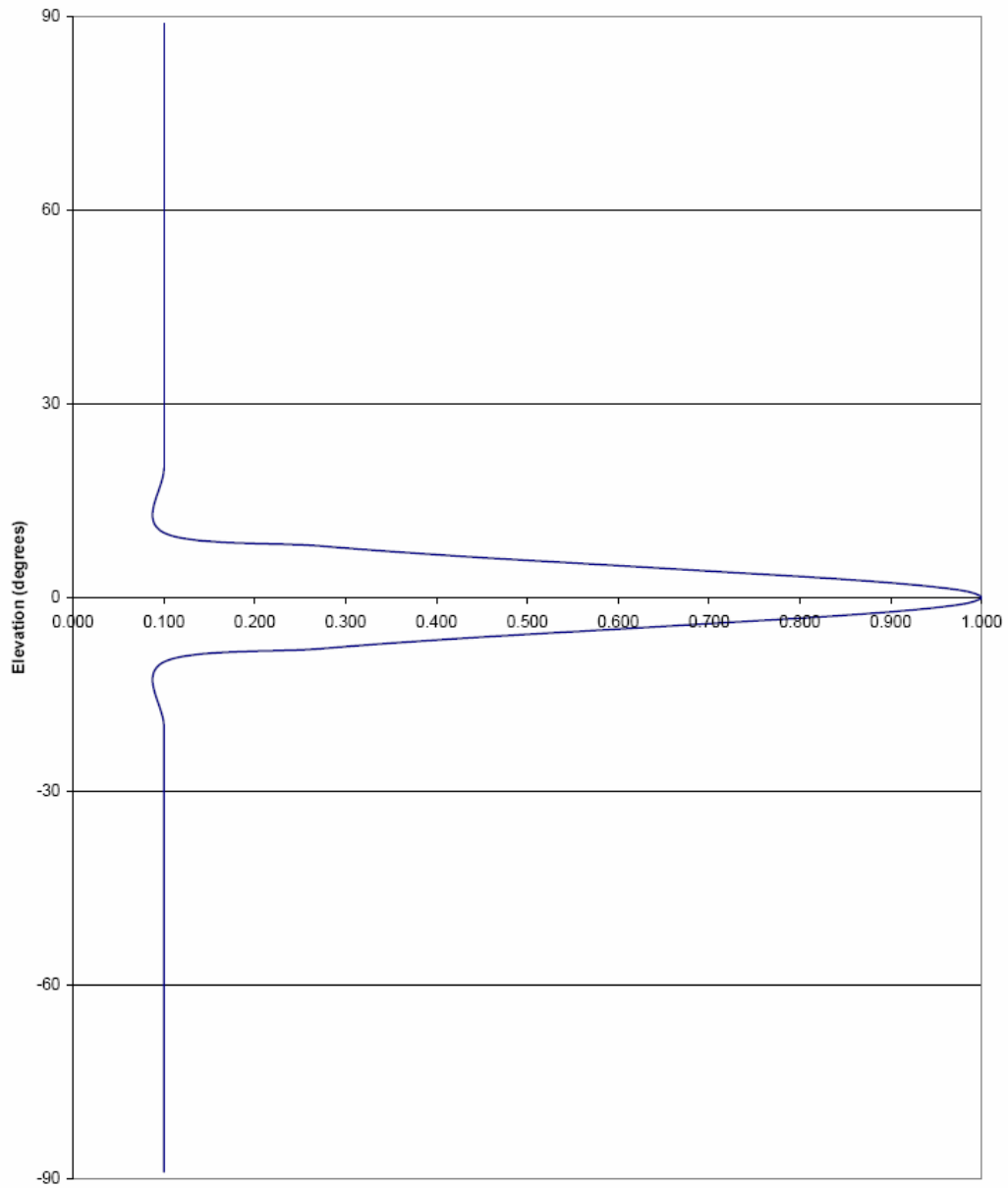


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WiLine Networks, Inc.
San Francisco, CA

Hub Antenna Elevation Plot
Relative Field





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WiLine Networks, Inc.
San Francisco, CA

Aperto Customer Terminal Antenna				
Maximum Radiation Pattern Envelope				
Breakpoints for Antenna Relative Field Change				
Azimuth	Relative Field		Elevation	Relative Field
-180	0.0158		89	0.0316
-178	0.0158		75	0.0316
-176	0.0126		70	0.0562
-161	0.0126		35	0.1000
-158	0.0089		25	0.1000
-134	0.0089		5	1.0000
-133	0.0112		0	1.0000
-111	0.0112		-5	1.0000
-105	0.0224		-25	0.1000
-67	0.0224		-35	0.1000
-64	0.0316		-70	0.0562
-46	0.0316		-75	0.0316
-36	0.1000		-89	0.0316
-24	0.1000			
-19	0.3160			
-18	0.3550			
-13	0.6310			
-12	0.6680			
-5	1.0000			
0	1.0000			
4	1.0000			
5	0.9440			
12	0.6680			
13	0.6310			
18	0.3550			
19	0.3160			
23	0.1260			
24	0.1000			
36	0.1000			
37	0.0891			
46	0.0316			
64	0.0316			
65	0.0282			
66	0.0251			
67	0.0224			



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105	0.0224			
106	0.0200			
111	0.0112			
133	0.0112			
134	0.0089			
158	0.0089			
161	0.0126			
176	0.0126			
178	0.0158			
180	0.0158			

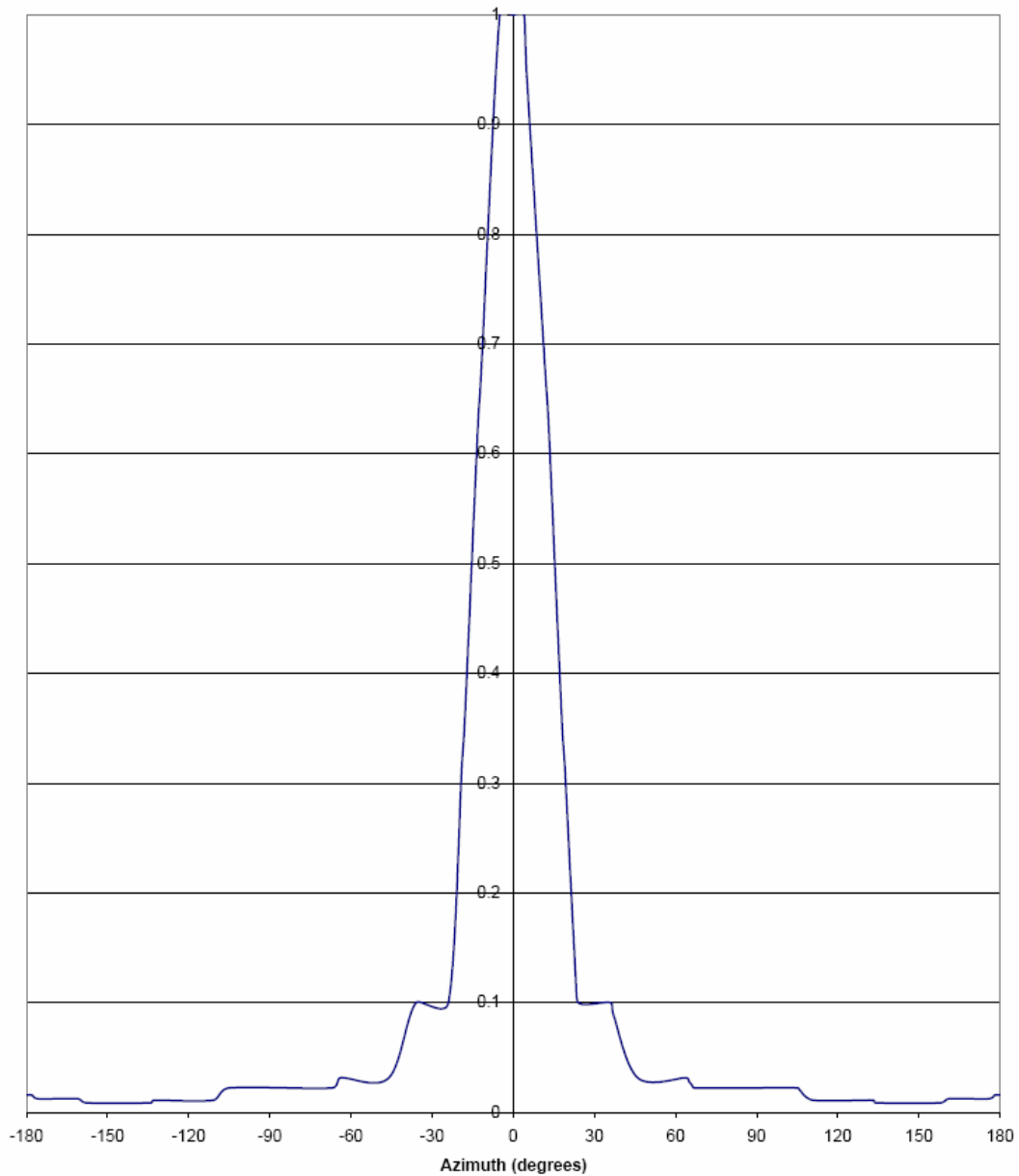


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WiLine Networks, Inc.
San Francisco, CA

Aperto Customer Terminal Antenna
Relative Field Plot
Horizontal Plane





Aperto Customer Terminal Antenna
Elevation Pattern

