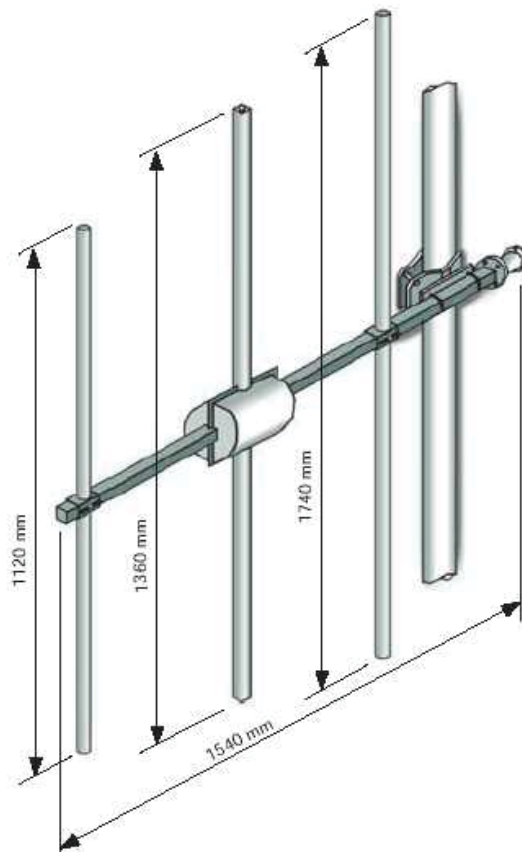


8 Bay TFL3Y 98.1MHz

November 2015



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General data of antenna System

TX station	
Site Name	
System of coordinates	WGS84
Longitude	
Latitude	
Ground level a.s.l. (m)	1.0
Antenna system height (m)	20.0
Transmitter power(Watt)	1.000
Carrier wave frequency (MHz)	98.100
Antenna system central frequency (MHz)	98.100
Antenna base diagrams type 1	TFL3Y
Polarization (H/V/C/X)	V
Transmitting cable attenuation (dB)	0.0
Additional attenuations(dB)	0.0
Base diagrams sectors (T = All, F = Front)	T
Velocity factor of cables to Antennas (0÷1)	1.00
Coordinate System(C = cartesian, P = polar)	P
Mast side / diameter(cm)	0.0
Mast cross section (T/Q/C)	Q
Structure rotation w.r.t. North (°)	0.0
Mast rotation w.r.t. North (°)	0.0

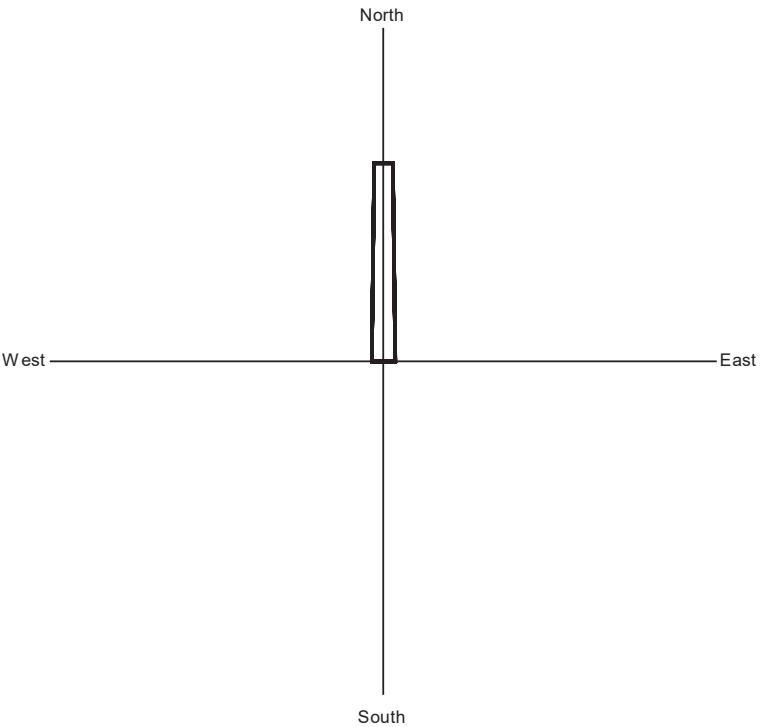
Information about antennas used in the System

	Antenna
Manufacturer	Telecom
Antenna model	TFL3Y
Band start(MHz)	87
Band stop(MHz)	108
diagrams Frequency(MHz)	98.10
Polariz (H/V/C/X)	V
Vertical dist (cm)	154
Height (cm)	174
Width (cm)	18
Thickness (cm)	154
Weight (Kg)	13.5
Maximum power (KW)	3.5
Gain (dBd)	3.9
North E.C. (cm)	60
East E.C. (cm)	0
Return loss (dB)	0
R.C.Phase (°)	0

Geometrical and electrical data of antenna System

	<i>Power (%)</i>	<i>Tilt (°)</i>	<i>Az. (°/N)</i>	<i>Phase (°)</i>	<i>V dist. (m)</i>	<i>Scr-d (cm)</i>	<i>Scr-Az (°/N)</i>	<i>Rot. (1÷4)</i>	<i>Type (1÷2)</i>	<i>L cables (cm)</i>	<i>Car. phase (°)</i>
1	12.500	0	0	0 +0.0	9.10	0.0	0.0	1	1	0.0	0.0
2	12.500	0	0	0 +0.0	6.50	0.0	0.0	1	1	0.0	0.0
3	12.500	0	0	0 +0.0	3.90	0.0	0.0	1	1	0.0	0.0
4	12.500	0	0	0 +0.0	1.30	0.0	0.0	1	1	0.0	0.0
5	12.500	0	0	0 +0.0	-1.30	0.0	0.0	1	1	0.0	0.0
6	12.500	0	0	0 +0.0	-3.90	0.0	0.0	1	1	0.0	0.0
7	12.500	0	0	0 +0.0	-6.50	0.0	0.0	1	1	0.0	0.0
8	12.500	0	0	0 +0.0	-9.10	0.0	0.0	1	1	0.0	0.0

Plan of antenna system



Side of antenna system



Antennas arrays data

Note: calculation of single antennas arrays data (without taking into account mutual effects)

A. Antennas array azimuth (°/N)	0
B. Number of antennas	8
C. Nominal power supply (W)	1.00
D. Losses (addit. + cables) (dB)	0.0
E. Effective power supply (W)	1.00
F. Theor. maximum gain (dBd)	12.93
G. Distribution losses (dB)	0.00
H. Nominal max gain F - G (dBd)	12.93
I. Compensation losses (dB)	0.20
J. Effec. max gain H - I (dBd)	12.74
K. Effec. max gain (times)	18.77
L. Effec. max power E * K (KW)	0.0188
M. Max power depr. angle (°)	0.2
N. Max power az. angle (°)	358

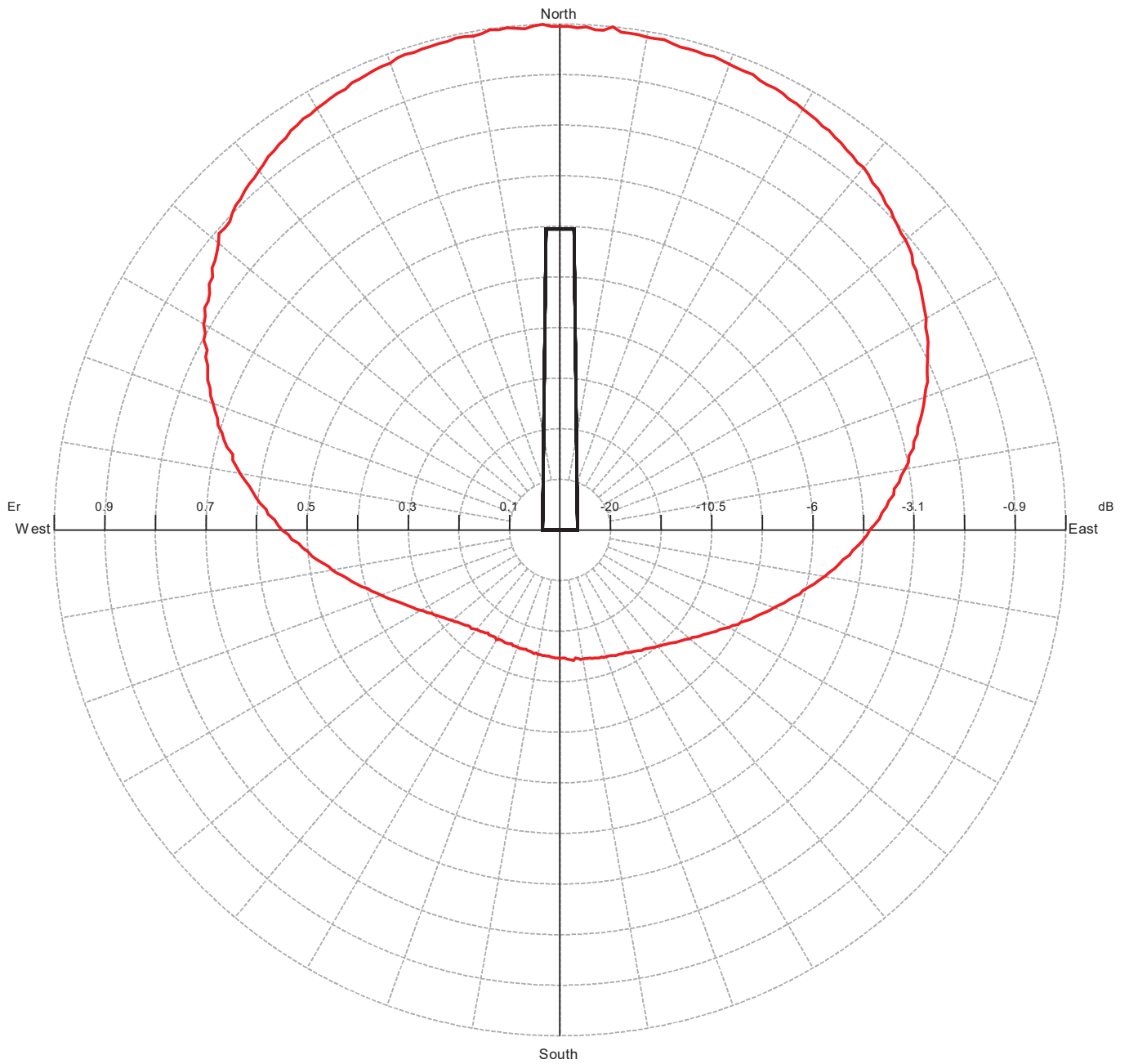
Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	-17.3	90	-21.5	180	-29.2	270	-22.5
10	-17.4	100	-22.8	190	-29.3	280	-21.1
20	-17.4	110	-24.2	200	-29.4	290	-20.0
30	-17.6	120	-25.6	210	-29.3	300	-19.1
40	-17.9	130	-26.8	220	-29.1	310	-18.4
50	-18.3	140	-27.7	230	-28.4	320	-17.9
60	-18.8	150	-28.4	240	-27.2	330	-17.6
70	-19.6	160	-28.7	250	-25.7	340	-17.4
80	-20.5	170	-29.0	260	-24.1	350	-17.3

Diagram in dBK calculated at horizon (without -20dB's lower limit vs maximum power)

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	-17.3	90	-21.5	180	-29.2	270	-22.5
10	-17.4	100	-22.8	190	-29.3	280	-21.1
20	-17.4	110	-24.2	200	-29.4	290	-20.0
30	-17.6	120	-25.6	210	-29.3	300	-19.1
40	-17.9	130	-26.8	220	-29.1	310	-18.4
50	-18.3	140	-27.7	230	-28.4	320	-17.9
60	-18.8	150	-28.4	240	-27.2	330	-17.6
70	-19.6	160	-28.7	250	-25.7	340	-17.4
80	-20.5	170	-29.0	260	-24.1	350	-17.3

Horizontal diagram at 0.0° tilt (Total Antenna)



— 0.0° Tilt (Total Antenna), Gain (dBd): 12.73

ERP T.Max(KW): 0.019 ERP E.Max(KW): 0.019

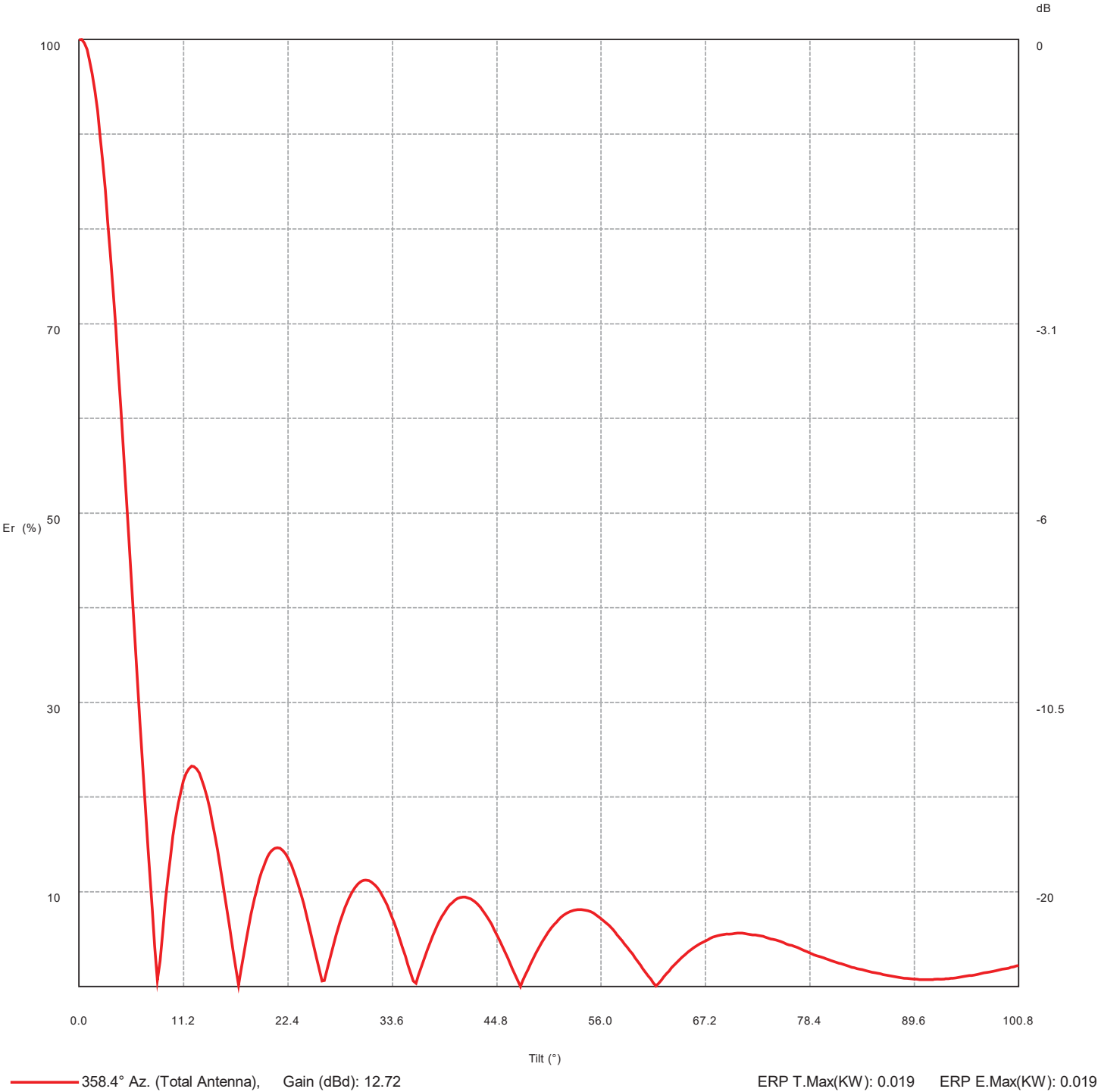
Horizontal diagram at 0.0° tilt (Total Antenna)

Az (°)	Er (%)	ERP (W)	Az (°)	Er (%)	ERP (W)	Az (°)	Er (%)	ERP (W)
0.0	99.5	18.6	60.0	83.6	13.1	120.0	38.5	2.8
1.0	99.5	18.6	61.0	82.6	12.8	121.0	37.8	2.7
2.0	99.3	18.5	62.0	82.2	12.7	122.0	37.2	2.6
3.0	99.5	18.6	63.0	81.7	12.5	123.0	36.8	2.5
4.0	99.1	18.4	64.0	80.9	12.3	124.0	36.2	2.5
5.0	99.1	18.4	65.0	80.2	12.1	125.0	35.7	2.4
6.0	100.0	18.8	66.0	79.4	11.8	126.0	35.1	2.3
7.0	99.1	18.4	67.0	78.9	11.7	127.0	34.8	2.3
8.0	99.1	18.4	68.0	78.3	11.5	128.0	34.4	2.2
9.0	99.1	18.4	69.0	77.4	11.2	129.0	33.8	2.1
10.0	98.9	18.3	70.0	76.7	11.0	130.0	33.4	2.1
11.0	98.9	18.3	71.0	76.0	10.8	131.0	33.0	2.0
12.0	99.1	18.4	72.0	75.3	10.6	132.0	32.6	2.0
13.0	98.6	18.2	73.0	74.5	10.4	133.0	32.3	2.0
14.0	98.4	18.2	74.0	73.6	10.2	134.0	31.9	1.9
15.0	98.4	18.2	75.0	73.1	10.0	135.0	31.5	1.9
16.0	98.4	18.2	76.0	72.1	9.8	136.0	31.2	1.8
17.0	98.2	18.1	77.0	71.7	9.6	137.0	30.9	1.8
18.0	98.4	18.2	78.0	70.6	9.3	138.0	30.6	1.8
19.0	98.2	18.1	79.0	70.2	9.2	139.0	30.3	1.7
20.0	97.9	18.0	80.0	69.3	9.0	140.0	30.0	1.7
21.0	97.7	17.9	81.0	68.3	8.8	141.0	29.8	1.7
22.0	97.7	17.9	82.0	67.7	8.6	142.0	29.5	1.6
23.0	97.7	17.9	83.0	66.6	8.3	143.0	29.3	1.6
24.0	97.3	17.7	84.0	66.3	8.2	144.0	29.1	1.6
25.0	97.1	17.7	85.0	65.2	8.0	145.0	28.8	1.6
26.0	97.1	17.7	86.0	64.6	7.8	146.0	28.7	1.5
27.0	96.8	17.6	87.0	63.8	7.6	147.0	28.5	1.5
28.0	96.4	17.4	88.0	63.2	7.5	148.0	28.2	1.5
29.0	96.4	17.4	89.0	62.3	7.3	149.0	28.1	1.5
30.0	96.1	17.3	90.0	61.2	7.0	150.0	27.9	1.5
31.0	95.8	17.2	91.0	60.7	6.9	151.0	27.8	1.4
32.0	95.6	17.1	92.0	59.9	6.7	152.0	27.5	1.4
33.0	95.2	17.0	93.0	59.0	6.5	153.0	27.5	1.4
34.0	95.2	17.0	94.0	58.0	6.3	154.0	27.3	1.4
35.0	94.7	16.8	95.0	57.4	6.2	155.0	27.2	1.4
36.0	94.5	16.8	96.0	56.3	5.9	156.0	27.2	1.4
37.0	94.1	16.6	97.0	55.6	5.8	157.0	26.9	1.4
38.0	93.9	16.5	98.0	54.8	5.6	158.0	26.8	1.4
39.0	93.4	16.4	99.0	53.9	5.4	159.0	26.7	1.3
40.0	93.4	16.4	100.0	53.2	5.3	160.0	26.7	1.3
41.0	93.0	16.2	101.0	52.1	5.1	161.0	26.7	1.3
42.0	92.4	16.0	102.0	51.4	5.0	162.0	26.5	1.3
43.0	92.2	15.9	103.0	50.4	4.8	163.0	26.5	1.3
44.0	91.7	15.8	104.0	49.5	4.6	164.0	26.4	1.3
45.0	91.1	15.6	105.0	49.1	4.5	165.0	26.3	1.3
46.0	90.9	15.5	106.0	48.0	4.3	166.0	26.2	1.3
47.0	90.3	15.3	107.0	47.2	4.2	167.0	26.0	1.3
48.0	89.8	15.1	108.0	46.6	4.1	168.0	26.0	1.3
49.0	89.3	15.0	109.0	45.8	3.9	169.0	25.9	1.3
50.0	89.1	14.9	110.0	45.0	3.8	170.0	25.9	1.3
51.0	88.7	14.8	111.0	44.4	3.7	171.0	26.0	1.3
52.0	88.3	14.6	112.0	43.6	3.6	172.0	25.7	1.2
53.0	87.3	14.3	113.0	42.9	3.4	173.0	25.5	1.2
54.0	87.1	14.2	114.0	42.3	3.4	174.0	26.0	1.3
55.0	86.3	14.0	115.0	41.7	3.3	175.0	25.8	1.2
56.0	85.9	13.8	116.0	40.9	3.1	176.0	25.6	1.2
57.0	85.3	13.6	117.0	40.2	3.0	177.0	25.6	1.2
58.0	84.7	13.5	118.0	39.8	3.0	178.0	25.3	1.2
59.0	84.1	13.3	119.0	38.9	2.8	179.0	25.3	1.2

Horizontal diagram at 0.0° tilt (Total Antenna)

Az (°)	Er (%)	ERP (W)	Az (°)	Er (%)	ERP (W)	Az (°)	Er (%)	ERP (W)
180.0	25.4	1.2	240.0	31.9	1.9	300.0	81.3	12.4
181.0	25.3	1.2	241.0	32.4	2.0	301.0	81.8	12.6
182.0	25.4	1.2	242.0	32.8	2.0	302.0	82.8	12.9
183.0	25.3	1.2	243.0	33.4	2.1	303.0	83.0	12.9
184.0	25.2	1.2	244.0	33.9	2.2	304.0	83.6	13.1
185.0	25.1	1.2	245.0	34.4	2.2	305.0	84.7	13.5
186.0	25.1	1.2	246.0	34.9	2.3	306.0	84.9	13.5
187.0	25.0	1.2	247.0	35.7	2.4	307.0	86.1	13.9
188.0	25.1	1.2	248.0	36.4	2.5	308.0	86.5	14.0
189.0	25.0	1.2	249.0	37.0	2.6	309.0	87.3	14.3
190.0	25.0	1.2	250.0	37.7	2.7	310.0	88.1	14.6
191.0	24.8	1.2	251.0	38.3	2.7	311.0	89.3	15.0
192.0	25.0	1.2	252.0	39.2	2.9	312.0	89.1	14.9
193.0	24.8	1.2	253.0	39.7	3.0	313.0	89.3	15.0
194.0	24.7	1.1	254.0	40.8	3.1	314.0	90.1	15.2
195.0	24.7	1.1	255.0	41.6	3.2	315.0	90.7	15.4
196.0	24.6	1.1	256.0	42.3	3.4	316.0	90.9	15.5
197.0	24.7	1.1	257.0	43.0	3.5	317.0	91.5	15.7
198.0	24.7	1.1	258.0	43.9	3.6	318.0	91.9	15.9
199.0	24.7	1.1	259.0	44.9	3.8	319.0	92.2	15.9
200.0	24.6	1.1	260.0	45.7	3.9	320.0	92.6	16.1
201.0	24.7	1.1	261.0	46.3	4.0	321.0	93.0	16.2
202.0	24.7	1.1	262.0	47.4	4.2	322.0	93.6	16.4
203.0	24.5	1.1	263.0	48.4	4.4	323.0	93.9	16.5
204.0	24.6	1.1	264.0	49.3	4.6	324.0	94.3	16.7
205.0	24.7	1.1	265.0	50.0	4.7	325.0	94.5	16.8
206.0	24.8	1.2	266.0	51.0	4.9	326.0	95.2	17.0
207.0	24.7	1.1	267.0	51.7	5.0	327.0	95.4	17.1
208.0	24.7	1.1	268.0	53.1	5.3	328.0	95.8	17.2
209.0	24.7	1.1	269.0	53.7	5.4	329.0	95.8	17.2
210.0	25.1	1.2	270.0	55.0	5.7	330.0	96.2	17.3
211.0	24.7	1.1	271.0	55.7	5.8	331.0	96.4	17.4
212.0	24.8	1.2	272.0	56.5	6.0	332.0	96.6	17.5
213.0	24.9	1.2	273.0	57.7	6.3	333.0	96.8	17.6
214.0	25.0	1.2	274.0	58.3	6.4	334.0	96.8	17.6
215.0	24.9	1.2	275.0	59.5	6.6	335.0	97.5	17.8
216.0	25.1	1.2	276.0	60.3	6.8	336.0	97.5	17.8
217.0	25.3	1.2	277.0	61.2	7.0	337.0	97.7	17.9
218.0	25.5	1.2	278.0	62.0	7.2	338.0	97.9	18.0
219.0	25.6	1.2	279.0	63.2	7.5	339.0	98.2	18.1
220.0	25.7	1.2	280.0	64.2	7.7	340.0	98.2	18.1
221.0	25.9	1.3	281.0	65.1	7.9	341.0	98.6	18.2
222.0	26.2	1.3	282.0	66.1	8.2	342.0	98.9	18.3
223.0	26.2	1.3	283.0	66.5	8.3	343.0	98.6	18.2
224.0	26.3	1.3	284.0	67.8	8.6	344.0	98.9	18.3
225.0	26.6	1.3	285.0	68.8	8.9	345.0	98.9	18.3
226.0	26.8	1.3	286.0	69.6	9.1	346.0	99.1	18.4
227.0	27.1	1.4	287.0	70.7	9.4	347.0	99.1	18.4
228.0	27.3	1.4	288.0	71.2	9.5	348.0	99.3	18.5
229.0	27.6	1.4	289.0	72.1	9.8	349.0	99.3	18.5
230.0	27.8	1.4	290.0	72.9	10.0	350.0	99.1	18.4
231.0	28.2	1.5	291.0	74.0	10.3	351.0	99.3	18.5
232.0	28.5	1.5	292.0	74.6	10.4	352.0	99.8	18.7
233.0	28.8	1.6	293.0	75.7	10.7	353.0	99.5	18.6
234.0	29.2	1.6	294.0	76.2	10.9	354.0	99.8	18.7
235.0	29.5	1.6	295.0	76.9	11.1	355.0	99.5	18.6
236.0	30.0	1.7	296.0	78.0	11.4	356.0	99.3	18.5
237.0	30.3	1.7	297.0	78.3	11.5	357.0	99.8	18.7
238.0	30.9	1.8	298.0	79.8	11.9	358.0	100.0	18.8
239.0	31.2	1.8	299.0	80.2	12.1	359.0	99.5	18.6

Vertical diagram at an azimuth of 358.4°



Vertical diagram at an azimuth of 358.4°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
0.0	100.0	18.7	16.8	1.9	0.0	33.6	7.2	0.1
0.3	100.0	18.7	17.1	0.1	0.0	33.9	6.5	0.1
0.6	99.7	18.6	17.4	1.6	0.0	34.2	5.7	0.1
0.8	99.0	18.3	17.6	3.3	0.0	34.4	4.9	0.0
1.1	97.9	17.9	17.9	4.9	0.0	34.7	4.0	0.0
1.4	96.4	17.4	18.2	6.4	0.1	35.0	3.2	0.0
1.7	94.6	16.7	18.5	7.8	0.1	35.3	2.3	0.0
2.0	92.5	16.0	18.8	9.1	0.2	35.6	1.4	0.0
2.2	90.0	15.1	19.0	10.2	0.2	35.8	0.6	0.0
2.5	87.2	14.2	19.3	11.3	0.2	36.1	0.3	0.0
2.8	84.1	13.2	19.6	12.2	0.3	36.4	1.1	0.0
3.1	80.8	12.2	19.9	12.9	0.3	36.7	2.0	0.0
3.4	77.3	11.2	20.2	13.5	0.3	37.0	2.8	0.0
3.6	73.5	10.1	20.4	14.0	0.4	37.2	3.6	0.0
3.9	69.5	9.0	20.7	14.4	0.4	37.5	4.3	0.0
4.2	65.3	8.0	21.0	14.6	0.4	37.8	5.0	0.0
4.5	61.0	7.0	21.3	14.7	0.4	38.1	5.7	0.1
4.8	56.6	6.0	21.6	14.6	0.4	38.4	6.3	0.1
5.0	52.1	5.1	21.8	14.3	0.4	38.6	6.9	0.1
5.3	47.5	4.2	22.1	14.0	0.4	38.9	7.4	0.1
5.6	43.0	3.5	22.4	13.6	0.3	39.2	7.8	0.1
5.9	38.4	2.8	22.7	13.0	0.3	39.5	8.2	0.1
6.2	33.8	2.1	23.0	12.3	0.3	39.8	8.6	0.1
6.4	29.2	1.6	23.2	11.5	0.2	40.0	8.9	0.1
6.7	24.8	1.1	23.5	10.7	0.2	40.3	9.1	0.2
7.0	20.4	0.8	23.8	9.7	0.2	40.6	9.3	0.2
7.3	16.1	0.5	24.1	8.7	0.1	40.9	9.4	0.2
7.6	12.0	0.3	24.4	7.6	0.1	41.2	9.4	0.2
7.8	8.0	0.1	24.6	6.5	0.1	41.4	9.4	0.2
8.1	4.3	0.0	24.9	5.3	0.1	41.7	9.4	0.2
8.4	0.7	0.0	25.2	4.1	0.0	42.0	9.2	0.2
8.7	2.7	0.0	25.5	3.0	0.0	42.3	9.1	0.2
9.0	5.8	0.1	25.8	1.8	0.0	42.6	8.8	0.1
9.2	8.8	0.1	26.0	0.6	0.0	42.8	8.6	0.1
9.5	11.4	0.2	26.3	0.6	0.0	43.1	8.3	0.1
9.8	13.8	0.4	26.6	1.8	0.0	43.4	7.9	0.1
10.1	15.9	0.5	26.9	2.9	0.0	43.7	7.5	0.1
10.4	17.8	0.6	27.2	4.0	0.0	44.0	7.0	0.1
10.6	19.4	0.7	27.4	5.0	0.0	44.2	6.5	0.1
10.9	20.7	0.8	27.7	5.9	0.1	44.5	6.0	0.1
11.2	21.7	0.9	28.0	6.8	0.1	44.8	5.5	0.1
11.5	22.5	0.9	28.3	7.7	0.1	45.1	4.9	0.0
11.8	23.0	1.0	28.6	8.4	0.1	45.4	4.3	0.0
12.0	23.2	1.0	28.8	9.1	0.2	45.6	3.7	0.0
12.3	23.2	1.0	29.1	9.6	0.2	45.9	3.1	0.0
12.6	23.0	1.0	29.4	10.1	0.2	46.2	2.5	0.0
12.9	22.5	0.9	29.7	10.6	0.2	46.5	1.9	0.0
13.2	21.9	0.9	30.0	10.9	0.2	46.8	1.2	0.0
13.4	21.0	0.8	30.2	11.1	0.2	47.0	0.6	0.0
13.7	20.0	0.7	30.5	11.2	0.2	47.3	0.0	0.0
14.0	18.8	0.7	30.8	11.2	0.2	47.6	0.6	0.0
14.3	17.5	0.6	31.1	11.2	0.2	47.9	1.2	0.0
14.6	16.0	0.5	31.4	11.0	0.2	48.2	1.8	0.0
14.8	14.4	0.4	31.6	10.8	0.2	48.4	2.4	0.0
15.1	12.7	0.3	31.9	10.5	0.2	48.7	3.0	0.0
15.4	11.0	0.2	32.2	10.1	0.2	49.0	3.5	0.0
15.7	9.2	0.2	32.5	9.7	0.2	49.3	4.0	0.0
16.0	7.4	0.1	32.8	9.2	0.2	49.6	4.5	0.0
16.2	5.6	0.1	33.0	8.6	0.1	49.8	5.0	0.0
16.5	3.7	0.0	33.3	7.9	0.1	50.1	5.4	0.1

Vertical diagram at an azimuth of 358.4°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
50.4	5.8	0.1	67.2	4.8	0.0	84.0	1.8	0.0
50.7	6.2	0.1	67.5	5.0	0.0	84.3	1.7	0.0
51.0	6.5	0.1	67.8	5.1	0.0	84.6	1.6	0.0
51.2	6.8	0.1	68.0	5.2	0.1	84.8	1.5	0.0
51.5	7.1	0.1	68.3	5.3	0.1	85.1	1.5	0.0
51.8	7.4	0.1	68.6	5.4	0.1	85.4	1.4	0.0
52.1	7.6	0.1	68.9	5.4	0.1	85.7	1.4	0.0
52.4	7.8	0.1	69.2	5.5	0.1	86.0	1.3	0.0
52.6	7.9	0.1	69.4	5.5	0.1	86.2	1.3	0.0
52.9	8.0	0.1	69.7	5.5	0.1	86.5	1.2	0.0
53.2	8.1	0.1	70.0	5.5	0.1	86.8	1.1	0.0
53.5	8.1	0.1	70.3	5.6	0.1	87.1	1.1	0.0
53.8	8.1	0.1	70.6	5.6	0.1	87.4	1.0	0.0
54.0	8.1	0.1	70.8	5.6	0.1	87.6	1.0	0.0
54.3	8.0	0.1	71.1	5.6	0.1	87.9	0.9	0.0
54.6	8.0	0.1	71.4	5.6	0.1	88.2	0.9	0.0
54.9	7.9	0.1	71.7	5.5	0.1	88.5	0.9	0.0
55.2	7.7	0.1	72.0	5.5	0.1	88.8	0.8	0.0
55.4	7.6	0.1	72.2	5.5	0.1	89.0	0.8	0.0
55.7	7.4	0.1	72.5	5.4	0.1	89.3	0.8	0.0
56.0	7.1	0.1	72.8	5.4	0.1	89.6	0.8	0.0
56.3	6.9	0.1	73.1	5.4	0.1	89.9	0.7	0.0
56.6	6.7	0.1	73.4	5.3	0.1	90.2	0.7	0.0
56.8	6.4	0.1	73.6	5.2	0.1	90.4	0.7	0.0
57.1	6.1	0.1	73.9	5.1	0.0	90.7	0.7	0.0
57.4	5.8	0.1	74.2	5.0	0.0	91.0	0.7	0.0
57.7	5.5	0.1	74.5	5.0	0.0	91.3	0.7	0.0
58.0	5.1	0.0	74.8	4.9	0.0	91.6	0.7	0.0
58.2	4.8	0.0	75.0	4.8	0.0	91.8	0.7	0.0
58.5	4.5	0.0	75.3	4.7	0.0	92.1	0.7	0.0
58.8	4.1	0.0	75.6	4.6	0.0	92.4	0.8	0.0
59.1	3.8	0.0	75.9	4.5	0.0	92.7	0.8	0.0
59.4	3.4	0.0	76.2	4.4	0.0	93.0	0.8	0.0
59.6	3.0	0.0	76.4	4.3	0.0	93.2	0.8	0.0
59.9	2.6	0.0	76.7	4.2	0.0	93.5	0.8	0.0
60.2	2.2	0.0	77.0	4.1	0.0	93.8	0.9	0.0
60.5	1.9	0.0	77.3	4.0	0.0	94.1	0.9	0.0
60.8	1.5	0.0	77.6	3.9	0.0	94.4	1.0	0.0
61.0	1.1	0.0	77.8	3.8	0.0	94.6	1.0	0.0
61.3	0.7	0.0	78.1	3.6	0.0	94.9	1.0	0.0
61.6	0.4	0.0	78.4	3.5	0.0	95.2	1.1	0.0
61.9	0.0	0.0	78.7	3.4	0.0	95.5	1.1	0.0
62.2	0.3	0.0	79.0	3.3	0.0	95.8	1.2	0.0
62.4	0.7	0.0	79.2	3.2	0.0	96.0	1.2	0.0
62.7	1.0	0.0	79.5	3.1	0.0	96.3	1.3	0.0
63.0	1.3	0.0	79.8	3.0	0.0	96.6	1.3	0.0
63.3	1.6	0.0	80.1	2.9	0.0	96.9	1.4	0.0
63.6	2.0	0.0	80.4	2.8	0.0	97.2	1.4	0.0
63.8	2.3	0.0	80.6	2.7	0.0	97.4	1.5	0.0
64.1	2.5	0.0	80.9	2.6	0.0	97.7	1.5	0.0
64.4	2.8	0.0	81.2	2.5	0.0	98.0	1.6	0.0
64.7	3.1	0.0	81.5	2.5	0.0	98.3	1.6	0.0
65.0	3.3	0.0	81.8	2.4	0.0	98.6	1.7	0.0
65.2	3.5	0.0	82.0	2.3	0.0	98.8	1.8	0.0
65.5	3.8	0.0	82.3	2.2	0.0	99.1	1.8	0.0
65.8	4.0	0.0	82.6	2.1	0.0	99.4	1.9	0.0
66.1	4.2	0.0	82.9	2.0	0.0	99.7	1.9	0.0
66.4	4.4	0.0	83.2	1.9	0.0	100.0	2.0	0.0
66.6	4.5	0.0	83.4	1.9	0.0	100.2	2.1	0.0
66.9	4.7	0.0	83.7	1.8	0.0	100.5	2.1	0.0