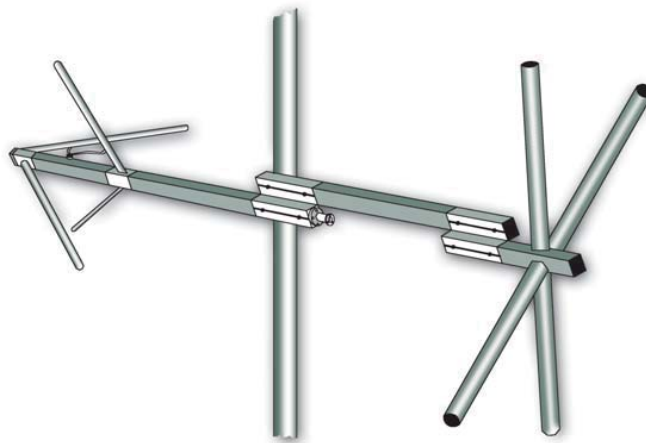


## 8 Bay TFC2K-D 98.1MHz

November 2015



### 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	TFC2K-D
Polarization (H/V/C/X)	C
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

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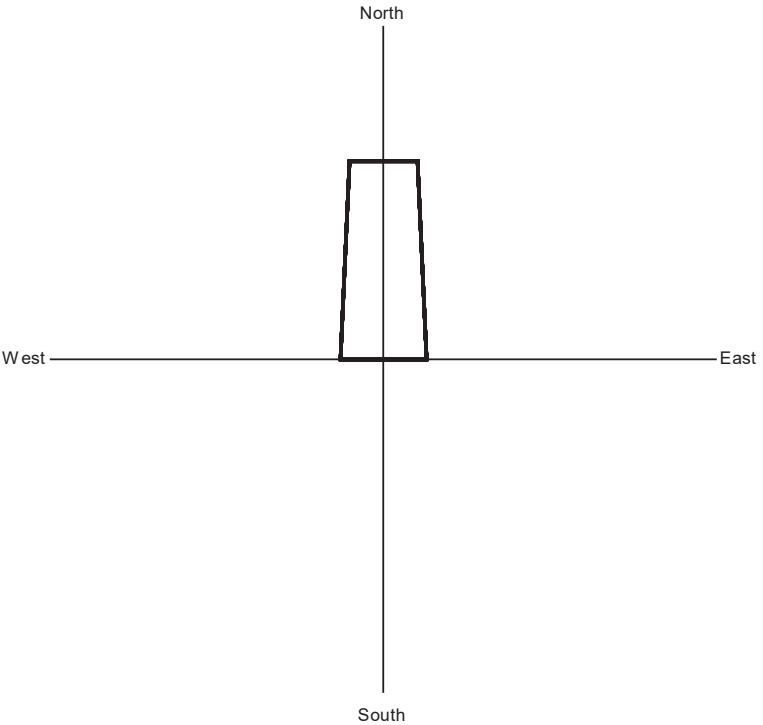
### Information about antennas used in the System

	Antenna
Manufacturer	Telecom
Antenna model	TFC2K-D
Band start(MHz)	87
Band stop(MHz)	108
diagrams Frequency(MHz)	98.10
Polariz (H/V/C/X)	C
Vertical dist (cm)	260
Height (cm)	95
Width (cm)	95
Thickness (cm)	220
Weight (Kg)	20
Maximum power (KW)	3
Gain (dBd)	-1.69
North E.C. (cm)	0
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)	7.34
G. Distribution losses (dB)	0.00
H. Nominal max gain F - G (dBd)	7.34
I. Compensation losses (dB)	0.54
J. Effec. max gain H - I (dBd)	6.80
K. Effec. max gain (times)	4.79
L. Effec. max power E * K (KW)	0.0048
M. Max power depr. angle (°)	0.3
N. Max power az. angle (°)	291

### Diagram in dBK calculated at horizon

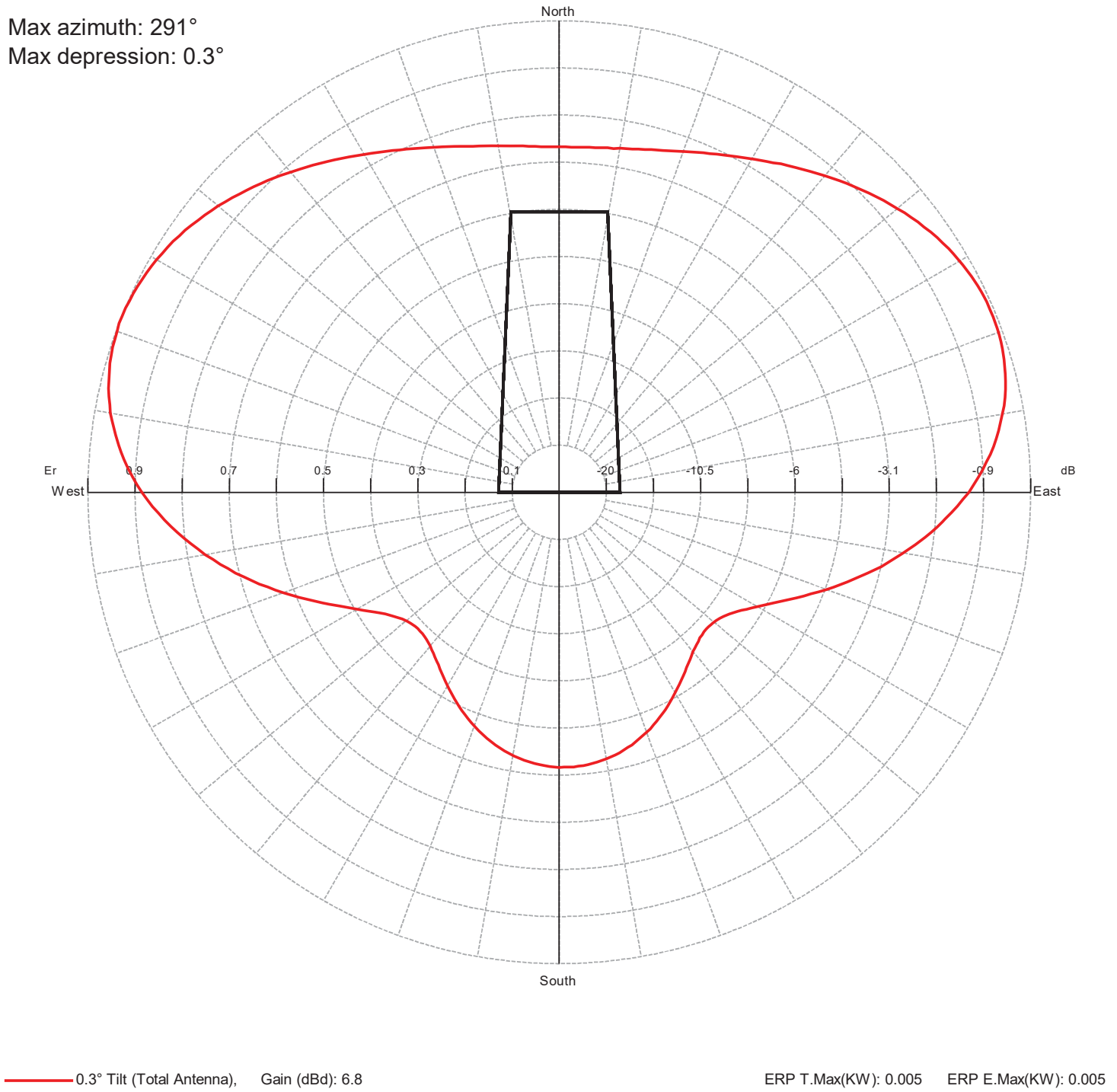
Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	-25.9	90	-24.4	180	-27.9	270	-24.3
10	-25.8	100	-25.8	190	-28.1	280	-23.5
20	-25.5	110	-27.6	200	-28.7	290	-23.2
30	-25.0	120	-29.5	210	-29.7	300	-23.3
40	-24.4	130	-30.6	220	-30.6	310	-23.7
50	-23.8	140	-30.3	230	-30.7	320	-24.3
60	-23.4	150	-29.4	240	-29.3	330	-24.9
70	-23.3	160	-28.5	250	-27.3	340	-25.4
80	-23.6	170	-28.0	260	-25.6	350	-25.8

### 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	-25.9	90	-24.4	180	-27.9	270	-24.3
10	-25.8	100	-25.8	190	-28.1	280	-23.5
20	-25.5	110	-27.6	200	-28.7	290	-23.2
30	-25.0	120	-29.5	210	-29.7	300	-23.3
40	-24.4	130	-30.6	220	-30.6	310	-23.7
50	-23.8	140	-30.3	230	-30.7	320	-24.3
60	-23.4	150	-29.4	240	-29.3	330	-24.9
70	-23.3	160	-28.5	250	-27.3	340	-25.4
80	-23.6	170	-28.0	260	-25.6	350	-25.8

Horizontal diagram of Maxima

Max azimuth: 291°  
Max depression: 0.3°



## Horizontal diagram of Maxima

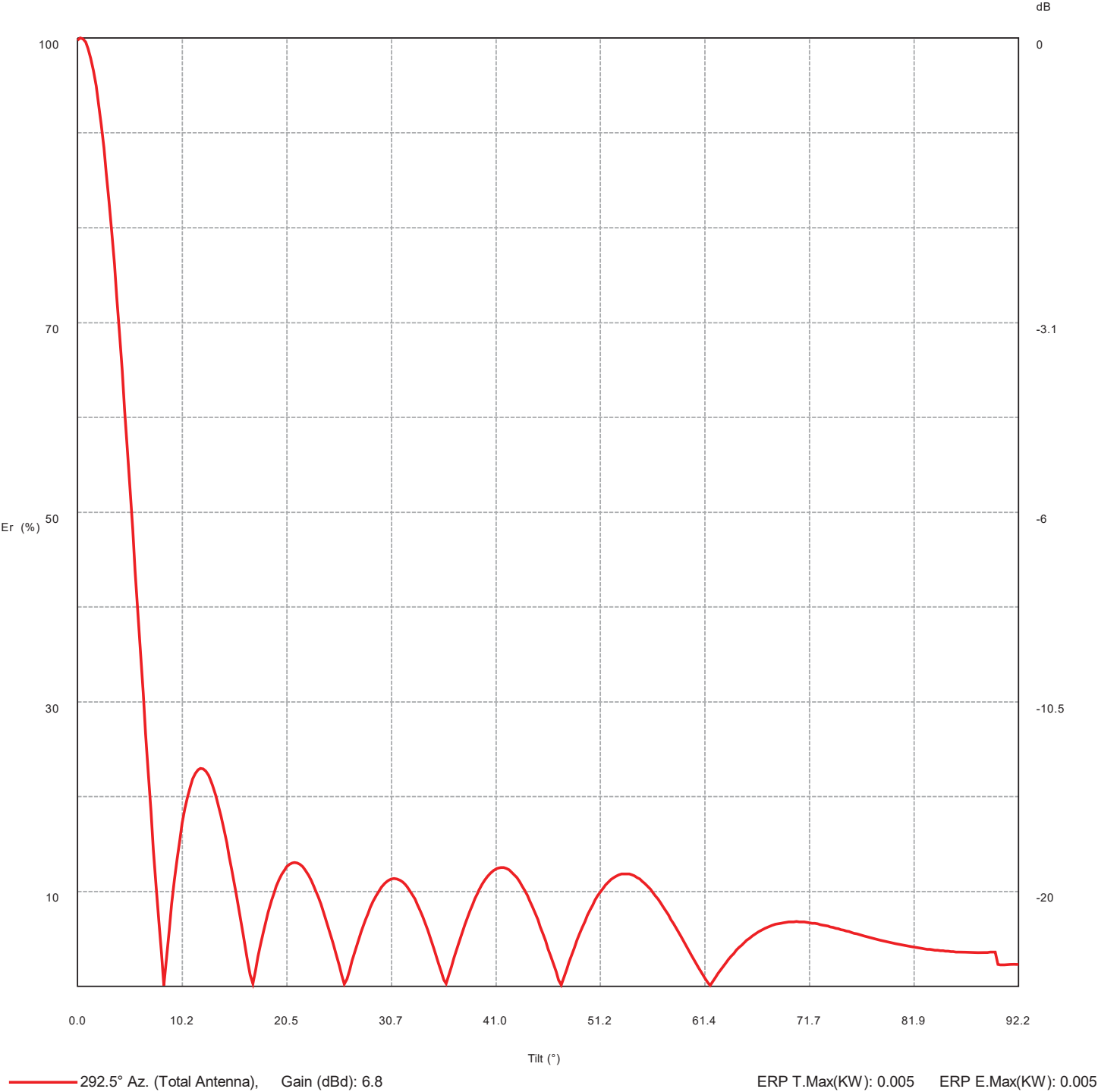
Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)
0.0	0.5	73.2	2.6	60.0	0.5	98.1	4.6	120.0	0.5	48.5	1.1
1.0	0.5	73.2	2.6	61.0	0.5	98.3	4.6	121.0	0.5	47.6	1.1
2.0	0.5	73.2	2.6	62.0	0.5	98.6	4.7	122.0	0.0	46.8	1.0
3.0	0.5	73.2	2.6	63.0	0.5	98.8	4.7	123.0	0.0	46.0	1.0
4.0	0.5	73.3	2.6	64.0	0.5	99.0	4.7	124.0	0.0	45.3	1.0
5.0	0.5	73.4	2.6	65.0	0.5	99.1	4.7	125.0	0.0	44.7	1.0
6.0	0.5	73.5	2.6	66.0	0.5	99.2	4.7	126.0	0.0	44.2	0.9
7.0	0.5	73.6	2.6	67.0	0.5	99.2	4.7	127.0	0.0	43.7	0.9
8.0	0.5	73.7	2.6	68.0	0.5	99.2	4.7	128.0	0.0	43.3	0.9
9.0	0.5	73.8	2.6	69.0	0.5	99.2	4.7	129.0	0.0	43.0	0.9
10.0	0.5	74.1	2.6	70.0	0.5	99.1	4.7	130.0	0.0	42.8	0.9
11.0	0.5	74.3	2.6	71.0	0.5	99.0	4.7	131.0	0.0	42.7	0.9
12.0	0.5	74.4	2.7	72.0	0.5	98.8	4.7	132.0	0.0	42.6	0.9
13.0	0.5	74.7	2.7	73.0	0.5	98.6	4.7	133.0	0.0	42.6	0.9
14.0	0.5	74.9	2.7	74.0	0.5	98.2	4.6	134.0	0.0	42.7	0.9
15.0	0.5	75.2	2.7	75.0	0.5	97.9	4.6	135.0	0.0	42.8	0.9
16.0	0.5	75.5	2.7	76.0	0.5	97.5	4.6	136.0	0.0	43.0	0.9
17.0	0.5	75.8	2.8	77.0	0.5	97.1	4.5	137.0	0.0	43.2	0.9
18.0	0.5	76.2	2.8	78.0	0.5	96.7	4.5	138.0	0.0	43.5	0.9
19.0	0.5	76.5	2.8	79.0	0.5	96.1	4.4	139.0	0.0	43.8	0.9
20.0	0.5	77.0	2.8	80.0	0.5	95.4	4.4	140.0	0.0	44.2	0.9
21.0	0.5	77.3	2.9	81.0	0.5	94.8	4.3	141.0	0.0	44.6	1.0
22.0	0.5	77.8	2.9	82.0	0.5	94.1	4.2	142.0	0.0	45.0	1.0
23.0	0.5	78.2	2.9	83.0	0.5	93.4	4.2	143.0	0.0	45.5	1.0
24.0	0.5	78.7	3.0	84.0	0.5	92.6	4.1	144.0	0.0	46.0	1.0
25.0	0.5	79.1	3.0	85.0	0.5	91.8	4.0	145.0	0.0	46.5	1.0
26.0	0.5	79.6	3.0	86.0	0.5	90.8	4.0	146.0	0.0	47.0	1.1
27.0	0.5	80.0	3.1	87.0	0.5	89.9	3.9	147.0	0.0	47.5	1.1
28.0	0.5	80.6	3.1	88.0	0.5	88.9	3.8	148.0	0.0	48.0	1.1
29.0	0.5	81.1	3.2	89.0	0.5	87.8	3.7	149.0	0.0	48.6	1.1
30.0	0.5	81.7	3.2	90.0	0.5	86.8	3.6	150.0	0.0	49.1	1.2
31.0	0.5	82.2	3.2	91.0	0.5	85.6	3.5	151.0	0.0	49.7	1.2
32.0	0.5	82.7	3.3	92.0	0.5	84.5	3.4	152.0	0.0	50.2	1.2
33.0	0.5	83.3	3.3	93.0	0.5	83.3	3.3	153.0	0.0	50.8	1.2
34.0	0.5	84.0	3.4	94.0	0.5	82.0	3.2	154.0	0.0	51.3	1.3
35.0	0.5	84.6	3.4	95.0	0.5	80.8	3.1	155.0	0.0	51.8	1.3
36.0	0.5	85.2	3.5	96.0	0.5	79.5	3.0	156.0	0.0	52.3	1.3
37.0	0.5	85.7	3.5	97.0	0.5	78.2	2.9	157.0	0.0	52.8	1.3
38.0	0.5	86.3	3.6	98.0	0.5	76.8	2.8	158.0	0.0	53.3	1.4
39.0	0.5	87.0	3.6	99.0	0.5	75.5	2.7	159.0	0.0	53.7	1.4
40.0	0.5	87.6	3.7	100.0	0.5	74.1	2.6	160.0	0.0	54.1	1.4
41.0	0.5	88.2	3.7	101.0	0.5	72.7	2.5	161.0	0.0	54.6	1.4
42.0	0.5	88.9	3.8	102.0	0.5	71.4	2.4	162.0	0.0	55.0	1.4
43.0	0.5	89.5	3.8	103.0	0.5	70.1	2.4	163.0	0.0	55.4	1.5
44.0	0.5	90.1	3.9	104.0	0.5	68.7	2.3	164.0	0.0	55.7	1.5
45.0	0.5	90.7	3.9	105.0	0.5	67.2	2.2	165.0	0.0	56.0	1.5
46.0	0.5	91.4	4.0	106.0	0.5	65.8	2.1	166.0	0.0	56.4	1.5
47.0	0.5	91.9	4.0	107.0	0.5	64.4	2.0	167.0	0.0	56.7	1.5
48.0	0.5	92.5	4.1	108.0	0.5	63.0	1.9	168.0	0.0	57.0	1.6
49.0	0.5	93.0	4.1	109.0	0.5	61.7	1.8	169.0	0.0	57.2	1.6
50.0	0.5	93.6	4.2	110.0	0.5	60.3	1.7	170.0	0.0	57.4	1.6
51.0	0.5	94.2	4.3	111.0	0.5	58.9	1.7	171.0	0.0	57.6	1.6
52.0	0.5	94.7	4.3	112.0	0.5	57.6	1.6	172.0	0.0	57.8	1.6
53.0	0.5	95.2	4.3	113.0	0.5	56.3	1.5	173.0	0.0	57.9	1.6
54.0	0.5	95.7	4.4	114.0	0.5	55.0	1.5	174.0	0.0	58.1	1.6
55.0	0.5	96.2	4.4	115.0	0.5	53.8	1.4	175.0	0.0	58.2	1.6
56.0	0.5	96.7	4.5	116.0	0.5	52.7	1.3	176.0	0.0	58.2	1.6
57.0	0.5	97.0	4.5	117.0	0.5	51.5	1.3	177.0	0.0	58.3	1.6
58.0	0.5	97.4	4.5	118.0	0.5	50.5	1.2	178.0	0.0	58.3	1.6
59.0	0.5	97.8	4.6	119.0	0.5	49.5	1.2	179.0	0.0	58.3	1.6

## Horizontal diagram of Maxima

Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)
180.0	0.0	58.3	1.6	240.0	0.5	49.6	1.2	300.0	0.5	98.7	4.7
181.0	0.0	58.3	1.6	241.0	0.5	50.6	1.2	301.0	0.5	98.3	4.6
182.0	0.0	58.2	1.6	242.0	0.5	51.8	1.3	302.0	0.5	98.0	4.6
183.0	0.0	58.1	1.6	243.0	0.5	53.0	1.3	303.0	0.5	97.7	4.6
184.0	0.0	58.0	1.6	244.0	0.5	54.2	1.4	304.0	0.5	97.2	4.5
185.0	0.0	57.8	1.6	245.0	0.5	55.5	1.5	305.0	0.5	96.9	4.5
186.0	0.0	57.6	1.6	246.0	0.5	56.8	1.5	306.0	0.5	96.4	4.5
187.0	0.0	57.4	1.6	247.0	0.5	58.1	1.6	307.0	0.5	95.9	4.4
188.0	0.0	57.2	1.6	248.0	0.5	59.5	1.7	308.0	0.5	95.4	4.4
189.0	0.0	57.0	1.6	249.0	0.5	60.8	1.8	309.0	0.5	94.9	4.3
190.0	0.0	56.7	1.5	250.0	0.5	62.3	1.9	310.0	0.5	94.5	4.3
191.0	0.0	56.4	1.5	251.0	0.5	63.7	1.9	311.0	0.5	93.9	4.2
192.0	0.0	56.1	1.5	252.0	0.5	65.1	2.0	312.0	0.5	93.4	4.2
193.0	0.0	55.7	1.5	253.0	0.5	66.5	2.1	313.0	0.5	92.7	4.1
194.0	0.0	55.4	1.5	254.0	0.5	68.0	2.2	314.0	0.5	92.2	4.1
195.0	0.0	55.0	1.4	255.0	0.5	69.3	2.3	315.0	0.5	91.7	4.0
196.0	0.0	54.6	1.4	256.0	0.5	70.7	2.4	316.0	0.5	91.0	4.0
197.0	0.0	54.1	1.4	257.0	0.5	72.1	2.5	317.0	0.5	90.4	3.9
198.0	0.0	53.7	1.4	258.0	0.5	73.5	2.6	318.0	0.5	89.9	3.9
199.0	0.0	53.3	1.4	259.0	0.5	74.9	2.7	319.0	0.5	89.3	3.8
200.0	0.0	52.8	1.3	260.0	0.5	76.2	2.8	320.0	0.5	88.7	3.8
201.0	0.0	52.3	1.3	261.0	0.5	77.5	2.9	321.0	0.5	88.0	3.7
202.0	0.0	51.8	1.3	262.0	0.5	78.9	3.0	322.0	0.5	87.4	3.7
203.0	0.0	51.2	1.3	263.0	0.5	80.1	3.1	323.0	0.5	86.8	3.6
204.0	0.0	50.7	1.2	264.0	0.5	81.4	3.2	324.0	0.5	86.2	3.6
205.0	0.0	50.2	1.2	265.0	0.5	82.7	3.3	325.0	0.5	85.6	3.5
206.0	0.0	49.6	1.2	266.0	0.5	83.9	3.4	326.0	0.5	85.1	3.5
207.0	0.0	49.0	1.2	267.0	0.5	85.1	3.5	327.0	0.5	84.5	3.4
208.0	0.0	48.5	1.1	268.0	0.5	86.3	3.6	328.0	0.5	83.9	3.4
209.0	0.0	48.0	1.1	269.0	0.5	87.4	3.7	329.0	0.5	83.3	3.3
210.0	0.0	47.4	1.1	270.0	0.5	88.6	3.8	330.0	0.5	82.7	3.3
211.0	0.0	46.8	1.1	271.0	0.5	89.6	3.8	331.0	0.5	82.3	3.2
212.0	0.0	46.3	1.0	272.0	0.5	90.5	3.9	332.0	0.5	81.7	3.2
213.0	0.0	45.7	1.0	273.0	0.5	91.5	4.0	333.0	0.5	81.1	3.2
214.0	0.0	45.2	1.0	274.0	0.5	92.3	4.1	334.0	0.5	80.7	3.1
215.0	0.0	44.7	1.0	275.0	0.5	93.2	4.2	335.0	0.5	80.1	3.1
216.0	0.0	44.2	0.9	276.0	0.5	93.9	4.2	336.0	0.5	79.7	3.0
217.0	0.0	43.8	0.9	277.0	0.5	94.7	4.3	337.0	0.5	79.2	3.0
218.0	0.0	43.3	0.9	278.0	0.5	95.3	4.4	338.0	0.5	78.7	3.0
219.0	0.0	43.0	0.9	279.0	0.5	96.0	4.4	339.0	0.5	78.3	2.9
220.0	0.0	42.6	0.9	280.0	0.5	96.7	4.5	340.0	0.5	77.8	2.9
221.0	0.0	42.3	0.9	281.0	0.5	97.1	4.5	341.0	0.5	77.5	2.9
222.0	0.0	42.1	0.8	282.0	0.5	97.7	4.6	342.0	0.5	77.0	2.8
223.0	0.0	41.9	0.8	283.0	0.5	98.1	4.6	343.0	0.5	76.7	2.8
224.0	0.0	41.7	0.8	284.0	0.5	98.4	4.6	344.0	0.5	76.3	2.8
225.0	0.0	41.7	0.8	285.0	0.5	98.8	4.7	345.0	0.5	76.0	2.8
226.0	0.0	41.7	0.8	286.0	0.5	99.1	4.7	346.0	0.5	75.6	2.7
227.0	0.0	41.8	0.8	287.0	0.5	99.4	4.7	347.0	0.5	75.4	2.7
228.0	0.0	41.9	0.8	288.0	0.5	99.6	4.7	348.0	0.5	75.1	2.7
229.0	0.0	42.1	0.8	289.0	0.5	99.7	4.8	349.0	0.5	74.9	2.7
230.0	0.0	42.4	0.9	290.0	0.5	99.8	4.8	350.0	0.5	74.6	2.7
231.0	0.0	42.8	0.9	291.0	0.3	100.0	4.8	351.0	0.5	74.3	2.6
232.0	0.0	43.2	0.9	292.0	0.5	99.9	4.8	352.0	0.5	74.2	2.6
233.0	0.0	43.8	0.9	293.0	0.5	99.9	4.8	353.0	0.5	74.0	2.6
234.0	0.0	44.4	0.9	294.0	0.5	99.8	4.8	354.0	0.5	73.8	2.6
235.0	0.0	45.1	1.0	295.0	0.5	99.7	4.8	355.0	0.5	73.7	2.6
236.0	0.0	45.8	1.0	296.0	0.5	99.6	4.7	356.0	0.5	73.6	2.6
237.0	0.0	46.7	1.0	297.0	0.5	99.4	4.7	357.0	0.5	73.4	2.6
238.0	0.0	47.5	1.1	298.0	0.5	99.1	4.7	358.0	0.5	73.3	2.6
239.0	0.5	48.6	1.1	299.0	0.5	98.9	4.7	359.0	0.5	73.3	2.6



Vertical diagram at an azimuth of 292.5°



### Vertical diagram at an azimuth of 292.5°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
0.0	99.8	4.8	15.4	10.7	0.1	30.7	11.3	0.1
0.3	100.0	4.8	15.6	9.1	0.0	31.0	11.4	0.1
0.5	99.9	4.8	15.9	7.5	0.0	31.2	11.3	0.1
0.8	99.6	4.7	16.1	5.9	0.0	31.5	11.2	0.1
1.0	98.9	4.7	16.4	4.3	0.0	31.7	11.1	0.1
1.3	97.9	4.6	16.6	2.7	0.0	32.0	10.8	0.1
1.5	96.6	4.5	16.9	1.2	0.0	32.3	10.5	0.1
1.8	95.0	4.3	17.2	0.3	0.0	32.5	10.1	0.0
2.0	93.1	4.1	17.4	1.7	0.0	32.8	9.7	0.0
2.3	90.9	4.0	17.7	3.1	0.0	33.0	9.2	0.0
2.6	88.4	3.7	17.9	4.4	0.0	33.3	8.6	0.0
2.8	85.7	3.5	18.2	5.7	0.0	33.5	8.0	0.0
3.1	82.7	3.3	18.4	6.8	0.0	33.8	7.3	0.0
3.3	79.6	3.0	18.7	7.9	0.0	34.0	6.6	0.0
3.6	76.2	2.8	18.9	8.9	0.0	34.3	5.8	0.0
3.8	72.6	2.5	19.2	9.8	0.0	34.6	5.0	0.0
4.1	68.8	2.3	19.5	10.5	0.1	34.8	4.2	0.0
4.4	64.9	2.0	19.7	11.2	0.1	35.1	3.3	0.0
4.6	60.8	1.8	20.0	11.8	0.1	35.3	2.5	0.0
4.9	56.7	1.5	20.2	12.2	0.1	35.6	1.6	0.0
5.1	52.5	1.3	20.5	12.6	0.1	35.8	0.7	0.0
5.4	48.2	1.1	20.7	12.9	0.1	36.1	0.3	0.0
5.6	43.8	0.9	21.0	13.0	0.1	36.4	1.2	0.0
5.9	39.5	0.7	21.2	13.0	0.1	36.6	2.1	0.0
6.1	35.2	0.6	21.5	13.0	0.1	36.9	3.0	0.0
6.4	30.9	0.5	21.8	12.8	0.1	37.1	3.9	0.0
6.7	26.6	0.3	22.0	12.6	0.1	37.4	4.7	0.0
6.9	22.5	0.2	22.3	12.3	0.1	37.6	5.6	0.0
7.2	18.4	0.2	22.5	11.8	0.1	37.9	6.4	0.0
7.4	14.4	0.1	22.8	11.3	0.1	38.1	7.2	0.0
7.7	10.6	0.1	23.0	10.8	0.1	38.4	7.9	0.0
7.9	6.9	0.0	23.3	10.1	0.0	38.7	8.6	0.0
8.2	3.4	0.0	23.6	9.4	0.0	38.9	9.2	0.0
8.4	0.1	0.0	23.8	8.7	0.0	39.2	9.8	0.0
8.7	3.0	0.0	24.1	7.8	0.0	39.4	10.4	0.1
9.0	6.0	0.0	24.3	7.0	0.0	39.7	10.9	0.1
9.2	8.7	0.0	24.6	6.1	0.0	39.9	11.3	0.1
9.5	11.1	0.1	24.8	5.1	0.0	40.2	11.7	0.1
9.7	13.4	0.1	25.1	4.2	0.0	40.4	12.0	0.1
10.0	15.4	0.1	25.3	3.2	0.0	40.7	12.2	0.1
10.2	17.2	0.1	25.6	2.2	0.0	41.0	12.4	0.1
10.5	18.7	0.2	25.9	1.2	0.0	41.2	12.5	0.1
10.8	20.0	0.2	26.1	0.2	0.0	41.5	12.5	0.1
11.0	21.1	0.2	26.4	0.8	0.0	41.7	12.5	0.1
11.3	21.9	0.2	26.6	1.7	0.0	42.0	12.4	0.1
11.5	22.5	0.2	26.9	2.7	0.0	42.2	12.3	0.1
11.8	22.8	0.2	27.1	3.6	0.0	42.5	12.0	0.1
12.0	23.0	0.3	27.4	4.5	0.0	42.8	11.8	0.1
12.3	22.9	0.3	27.6	5.4	0.0	43.0	11.4	0.1
12.5	22.7	0.2	27.9	6.2	0.0	43.3	11.0	0.1
12.8	22.2	0.2	28.2	6.9	0.0	43.5	10.6	0.1
13.1	21.6	0.2	28.4	7.7	0.0	43.8	10.1	0.0
13.3	20.9	0.2	28.7	8.3	0.0	44.0	9.6	0.0
13.6	20.0	0.2	28.9	8.9	0.0	44.3	9.0	0.0
13.8	18.9	0.2	29.2	9.5	0.0	44.5	8.4	0.0
14.1	17.7	0.2	29.4	10.0	0.0	44.8	7.7	0.0
14.3	16.5	0.1	29.7	10.4	0.1	45.1	7.0	0.0
14.6	15.1	0.1	30.0	10.7	0.1	45.3	6.3	0.0
14.8	13.7	0.1	30.2	11.0	0.1	45.6	5.5	0.0
15.1	12.2	0.1	30.5	11.2	0.1	45.8	4.7	0.0

### Vertical diagram at an azimuth of 292.5°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
46.1	4.0	0.0	61.4	0.8	0.0	76.8	5.4	0.0
46.3	3.1	0.0	61.7	0.4	0.0	77.1	5.3	0.0
46.6	2.3	0.0	62.0	0.1	0.0	77.3	5.2	0.0
46.8	1.5	0.0	62.2	0.5	0.0	77.6	5.1	0.0
47.1	0.7	0.0	62.5	0.9	0.0	77.8	5.1	0.0
47.4	0.1	0.0	62.7	1.3	0.0	78.1	5.0	0.0
47.6	1.0	0.0	63.0	1.7	0.0	78.3	4.9	0.0
47.9	1.8	0.0	63.2	2.1	0.0	78.6	4.9	0.0
48.1	2.5	0.0	63.5	2.5	0.0	78.8	4.8	0.0
48.4	3.3	0.0	63.7	2.8	0.0	79.1	4.7	0.0
48.6	4.1	0.0	64.0	3.2	0.0	79.4	4.7	0.0
48.9	4.8	0.0	64.3	3.5	0.0	79.6	4.6	0.0
49.2	5.5	0.0	64.5	3.8	0.0	79.9	4.5	0.0
49.4	6.2	0.0	64.8	4.1	0.0	80.1	4.5	0.0
49.7	6.8	0.0	65.0	4.3	0.0	80.4	4.4	0.0
49.9	7.5	0.0	65.3	4.6	0.0	80.6	4.4	0.0
50.2	8.0	0.0	65.5	4.8	0.0	80.9	4.3	0.0
50.4	8.6	0.0	65.8	5.1	0.0	81.2	4.3	0.0
50.7	9.1	0.0	66.0	5.3	0.0	81.4	4.2	0.0
50.9	9.6	0.0	66.3	5.5	0.0	81.7	4.2	0.0
51.2	10.0	0.0	66.6	5.6	0.0	81.9	4.1	0.0
51.5	10.4	0.1	66.8	5.8	0.0	82.2	4.1	0.0
51.7	10.7	0.1	67.1	6.0	0.0	82.4	4.0	0.0
52.0	11.0	0.1	67.3	6.1	0.0	82.7	4.0	0.0
52.2	11.2	0.1	67.6	6.2	0.0	82.9	3.9	0.0
52.5	11.5	0.1	67.8	6.3	0.0	83.2	3.9	0.0
52.7	11.6	0.1	68.1	6.4	0.0	83.5	3.9	0.0
53.0	11.7	0.1	68.4	6.5	0.0	83.7	3.8	0.0
53.2	11.8	0.1	68.6	6.6	0.0	84.0	3.8	0.0
53.5	11.9	0.1	68.9	6.7	0.0	84.2	3.8	0.0
53.8	11.9	0.1	69.1	6.7	0.0	84.5	3.8	0.0
54.0	11.8	0.1	69.4	6.7	0.0	84.7	3.7	0.0
54.3	11.7	0.1	69.6	6.8	0.0	85.0	3.7	0.0
54.5	11.6	0.1	69.9	6.8	0.0	85.2	3.7	0.0
54.8	11.5	0.1	70.1	6.8	0.0	85.5	3.7	0.0
55.0	11.3	0.1	70.4	6.8	0.0	85.8	3.6	0.0
55.3	11.1	0.1	70.7	6.8	0.0	86.0	3.6	0.0
55.6	10.8	0.1	70.9	6.8	0.0	86.3	3.6	0.0
55.8	10.5	0.1	71.2	6.8	0.0	86.5	3.6	0.0
56.1	10.2	0.1	71.4	6.7	0.0	86.8	3.6	0.0
56.3	9.9	0.0	71.7	6.7	0.0	87.0	3.6	0.0
56.6	9.5	0.0	71.9	6.7	0.0	87.3	3.6	0.0
56.8	9.2	0.0	72.2	6.6	0.0	87.6	3.6	0.0
57.1	8.8	0.0	72.4	6.6	0.0	87.8	3.6	0.0
57.3	8.4	0.0	72.7	6.5	0.0	88.1	3.6	0.0
57.6	7.9	0.0	73.0	6.5	0.0	88.3	3.6	0.0
57.9	7.5	0.0	73.2	6.4	0.0	88.6	3.6	0.0
58.1	7.0	0.0	73.5	6.3	0.0	88.8	3.6	0.0
58.4	6.6	0.0	73.7	6.3	0.0	89.1	3.6	0.0
58.6	6.1	0.0	74.0	6.2	0.0	89.3	3.6	0.0
58.9	5.6	0.0	74.2	6.1	0.0	89.6	3.6	0.0
59.1	5.1	0.0	74.5	6.1	0.0	89.9	3.6	0.0
59.4	4.6	0.0	74.8	6.0	0.0	90.1	2.3	0.0
59.6	4.2	0.0	75.0	5.9	0.0	90.4	2.3	0.0
59.9	3.7	0.0	75.3	5.8	0.0	90.6	2.3	0.0
60.2	3.2	0.0	75.5	5.7	0.0	90.9	2.3	0.0
60.4	2.7	0.0	75.8	5.7	0.0	91.1	2.3	0.0
60.7	2.2	0.0	76.0	5.6	0.0	91.4	2.3	0.0
60.9	1.7	0.0	76.3	5.5	0.0	91.6	2.3	0.0
61.2	1.3	0.0	76.5	5.4	0.0	91.9	2.3	0.0