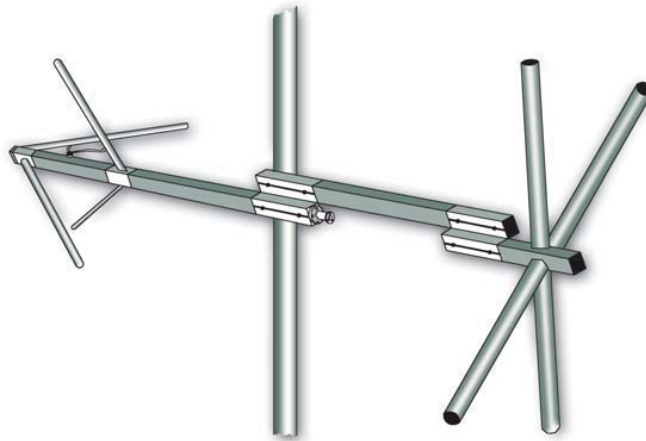


5 Bay TFC2K-D 98.1MHz

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

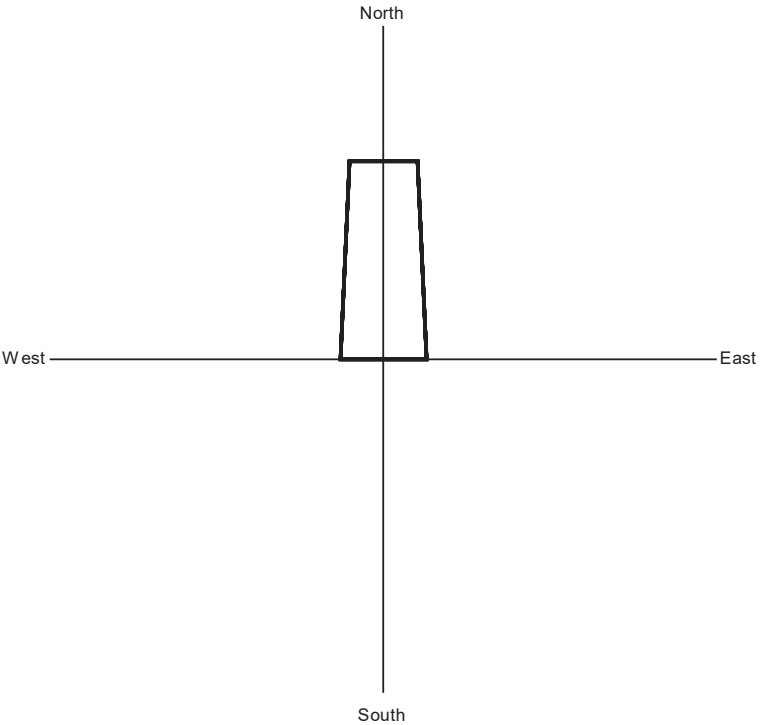
Information about antennas used in the System

	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.</i> (°/N)	<i>Phase</i> (°)	<i>V dist.</i> (m)	<i>Scr-d</i> (cm)	<i>Scr-Az</i> (°/N)	<i>Rot.</i> (1÷4)	<i>Type</i> (1÷2)	<i>L cables</i> (cm)	<i>Car. phase</i> (°)
1	20.000	0	0	0 +0.0	5.20	0.0	0.0	1	1	0.0	0.0
2	20.000	0	0	0 +0.0	2.60	0.0	0.0	1	1	0.0	0.0
3	20.000	0	0	0 +0.0	0.00	0.0	0.0	1	1	0.0	0.0
4	20.000	0	0	0 +0.0	-2.60	0.0	0.0	1	1	0.0	0.0
5	20.000	0	0	0 +0.0	-5.20	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	5
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)	5.30
G. Distribution losses (dB)	0.00
H. Nominal max gain F - G (dBd)	5.30
I. Compensation losses (dB)	0.50
J. Effec. max gain H - I (dBd)	4.80
K. Effec. max gain (times)	3.02
L. Effec. max power E * K (KW)	0.0030
M. Max power depr. angle (°)	0.9
N. Max power az. angle (°)	291

Diagram in dBK calculated at horizon

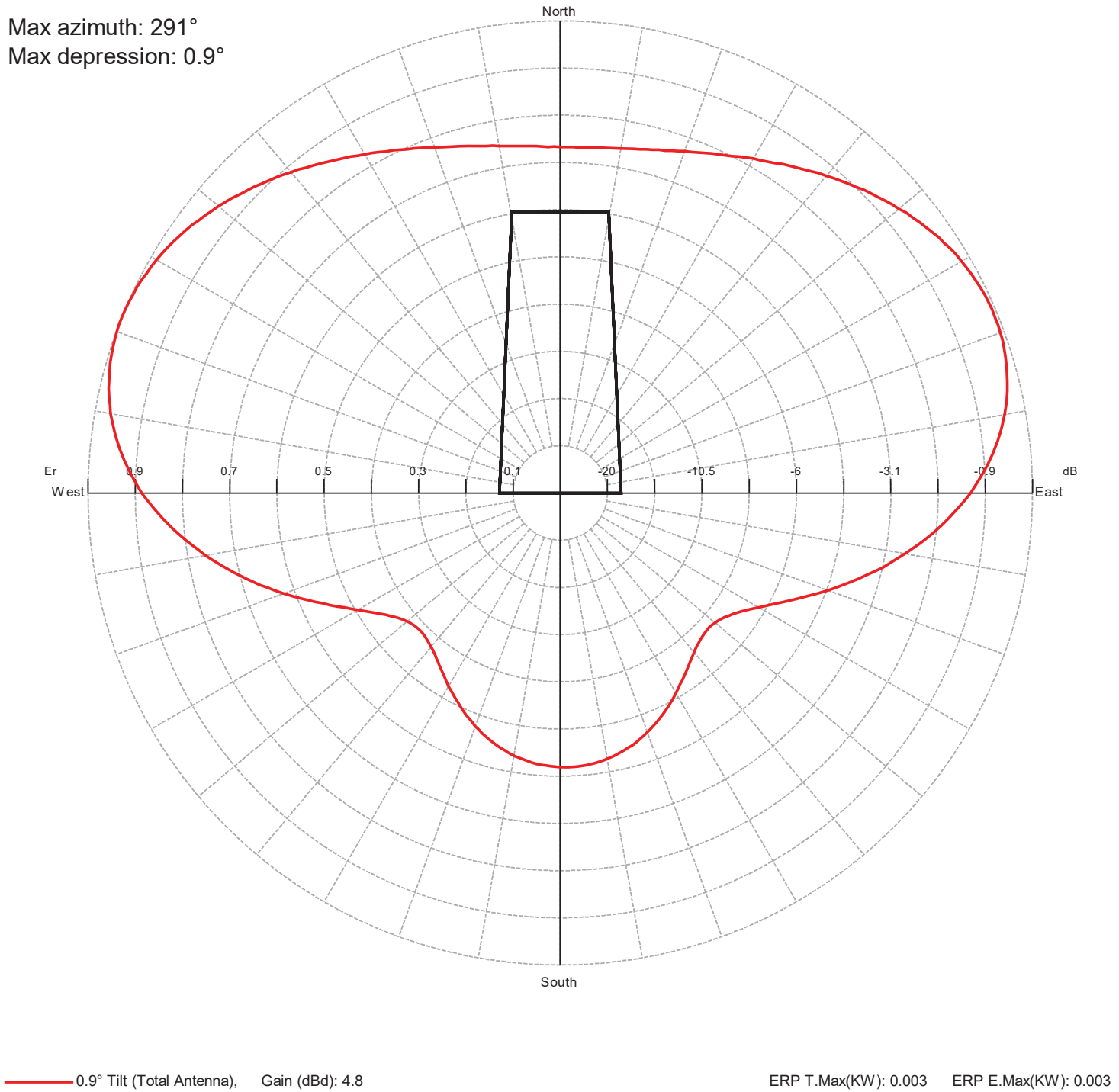
Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	-28.0	90	-26.5	180	-29.9	270	-26.3
10	-27.9	100	-27.9	190	-30.2	280	-25.6
20	-27.5	110	-29.6	200	-30.8	290	-25.3
30	-27.0	120	-31.5	210	-31.7	300	-25.4
40	-26.4	130	-32.6	220	-32.6	310	-25.8
50	-25.8	140	-32.3	230	-32.7	320	-26.3
60	-25.4	150	-31.4	240	-31.3	330	-26.9
70	-25.3	160	-30.6	250	-29.4	340	-27.4
80	-25.7	170	-30.1	260	-27.6	350	-27.8

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	-28.0	90	-26.5	180	-29.9	270	-26.3
10	-27.9	100	-27.9	190	-30.2	280	-25.6
20	-27.5	110	-29.6	200	-30.8	290	-25.3
30	-27.0	120	-31.5	210	-31.7	300	-25.4
40	-26.4	130	-32.6	220	-32.6	310	-25.8
50	-25.8	140	-32.3	230	-32.7	320	-26.3
60	-25.4	150	-31.4	240	-31.3	330	-26.9
70	-25.3	160	-30.6	250	-29.4	340	-27.4
80	-25.7	170	-30.1	260	-27.6	350	-27.8

Horizontal diagram of Maxima

Max azimuth: 291°
Max depression: 0.9°



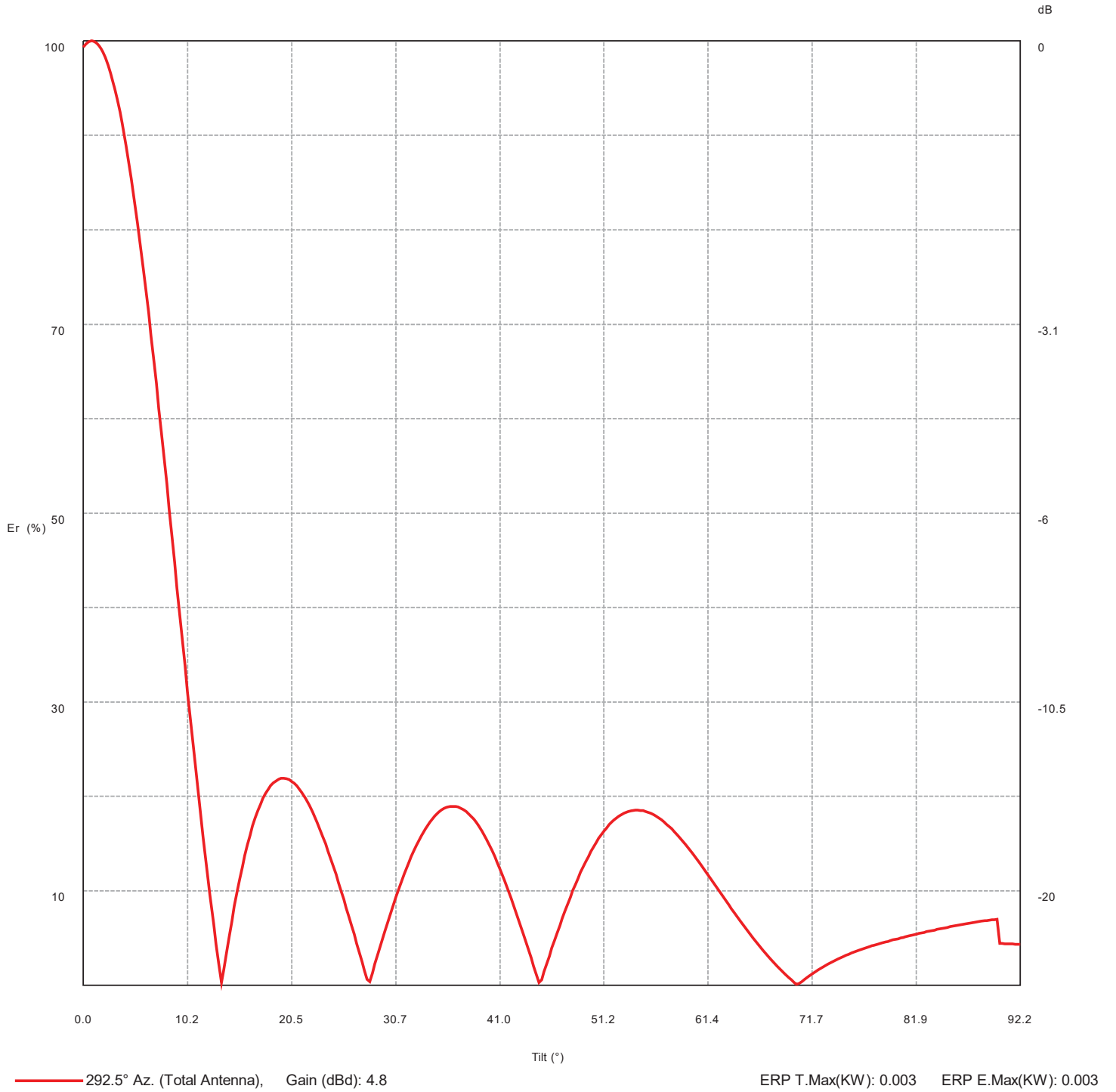
Horizontal diagram of Maxima

Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)
0.0	1.0	73.3	1.6	60.0	1.0	98.2	2.9	120.0	0.5	48.5	0.7
1.0	1.0	73.3	1.6	61.0	1.0	98.4	2.9	121.0	0.5	47.6	0.7
2.0	1.0	73.3	1.6	62.0	1.0	98.6	2.9	122.0	0.5	46.8	0.7
3.0	1.0	73.3	1.6	63.0	1.0	98.8	2.9	123.0	0.5	46.0	0.6
4.0	1.0	73.4	1.6	64.0	1.0	99.1	3.0	124.0	0.5	45.3	0.6
5.0	1.0	73.4	1.6	65.0	1.0	99.2	3.0	125.0	0.5	44.7	0.6
6.0	1.0	73.5	1.6	66.0	1.0	99.3	3.0	126.0	0.5	44.2	0.6
7.0	1.0	73.6	1.6	67.0	1.0	99.3	3.0	127.0	0.5	43.7	0.6
8.0	1.0	73.8	1.6	68.0	1.0	99.3	3.0	128.0	0.5	43.3	0.6
9.0	1.0	73.9	1.6	69.0	1.0	99.3	3.0	129.0	0.5	43.0	0.6
10.0	1.0	74.1	1.7	70.0	1.0	99.2	3.0	130.0	0.5	42.8	0.6
11.0	1.0	74.3	1.7	71.0	1.0	99.1	3.0	131.0	0.5	42.6	0.5
12.0	1.0	74.5	1.7	72.0	1.0	98.8	2.9	132.0	0.5	42.5	0.5
13.0	1.0	74.7	1.7	73.0	1.0	98.6	2.9	133.0	0.5	42.5	0.5
14.0	1.0	75.0	1.7	74.0	1.0	98.3	2.9	134.0	0.5	42.6	0.5
15.0	1.0	75.2	1.7	75.0	1.0	97.9	2.9	135.0	0.5	42.7	0.6
16.0	1.0	75.6	1.7	76.0	1.0	97.6	2.9	136.0	0.5	42.9	0.6
17.0	1.0	75.8	1.7	77.0	1.0	97.1	2.8	137.0	0.5	43.1	0.6
18.0	1.0	76.2	1.8	78.0	1.0	96.7	2.8	138.0	0.5	43.4	0.6
19.0	1.0	76.5	1.8	79.0	1.0	96.1	2.8	139.0	0.5	43.7	0.6
20.0	1.0	77.0	1.8	80.0	1.0	95.5	2.8	140.0	0.5	44.1	0.6
21.0	1.0	77.3	1.8	81.0	1.0	94.8	2.7	141.0	0.5	44.5	0.6
22.0	1.0	77.8	1.8	82.0	1.0	94.2	2.7	142.0	0.5	44.9	0.6
23.0	1.0	78.2	1.8	83.0	1.0	93.4	2.6	143.0	0.5	45.4	0.6
24.0	1.0	78.7	1.9	84.0	1.0	92.7	2.6	144.0	0.5	45.8	0.6
25.0	1.0	79.1	1.9	85.0	1.0	91.8	2.5	145.0	0.5	46.4	0.6
26.0	1.0	79.6	1.9	86.0	1.0	90.9	2.5	146.0	0.5	46.9	0.7
27.0	1.0	80.1	1.9	87.0	1.0	89.9	2.4	147.0	0.5	47.4	0.7
28.0	1.0	80.6	2.0	88.0	1.0	88.9	2.4	148.0	0.5	47.9	0.7
29.0	1.0	81.2	2.0	89.0	1.0	87.9	2.3	149.0	0.5	48.4	0.7
30.0	1.0	81.7	2.0	90.0	1.0	86.9	2.3	150.0	0.5	49.0	0.7
31.0	1.0	82.2	2.0	91.0	1.0	85.7	2.2	151.0	0.5	49.5	0.7
32.0	1.0	82.8	2.1	92.0	1.0	84.5	2.2	152.0	0.5	50.0	0.8
33.0	1.0	83.4	2.1	93.0	1.0	83.3	2.1	153.0	0.5	50.6	0.8
34.0	1.0	84.0	2.1	94.0	1.0	82.1	2.0	154.0	0.5	51.1	0.8
35.0	1.0	84.6	2.2	95.0	1.0	80.9	2.0	155.0	0.5	51.6	0.8
36.0	1.0	85.2	2.2	96.0	1.0	79.6	1.9	156.0	0.5	52.1	0.8
37.0	1.0	85.8	2.2	97.0	1.0	78.2	1.8	157.0	0.0	52.6	0.8
38.0	1.0	86.4	2.3	98.0	1.0	76.9	1.8	158.0	0.0	53.1	0.8
39.0	1.0	87.1	2.3	99.0	1.0	75.5	1.7	159.0	0.0	53.5	0.9
40.0	1.0	87.7	2.3	100.0	1.0	74.1	1.7	160.0	0.0	53.9	0.9
41.0	1.0	88.3	2.4	101.0	1.0	72.7	1.6	161.0	0.0	54.3	0.9
42.0	1.0	88.9	2.4	102.0	1.0	71.4	1.5	162.0	0.0	54.8	0.9
43.0	1.0	89.5	2.4	103.0	1.0	70.1	1.5	163.0	0.0	55.2	0.9
44.0	1.0	90.1	2.5	104.0	1.0	68.7	1.4	164.0	0.0	55.5	0.9
45.0	1.0	90.8	2.5	105.0	1.0	67.2	1.4	165.0	0.0	55.8	0.9
46.0	1.0	91.4	2.5	106.0	1.0	65.8	1.3	166.0	0.0	56.2	1.0
47.0	1.0	91.9	2.5	107.0	1.0	64.4	1.3	167.0	0.0	56.5	1.0
48.0	1.0	92.6	2.6	108.0	1.0	63.0	1.2	168.0	0.0	56.7	1.0
49.0	1.0	93.1	2.6	109.0	1.0	61.6	1.1	169.0	0.0	57.0	1.0
50.0	1.0	93.6	2.6	110.0	1.0	60.3	1.1	170.0	0.0	57.2	1.0
51.0	1.0	94.3	2.7	111.0	0.5	58.9	1.0	171.0	0.0	57.4	1.0
52.0	1.0	94.7	2.7	112.0	0.5	57.6	1.0	172.0	0.0	57.6	1.0
53.0	1.0	95.3	2.7	113.0	0.5	56.3	1.0	173.0	0.0	57.7	1.0
54.0	1.0	95.7	2.8	114.0	0.5	55.0	0.9	174.0	0.0	57.9	1.0
55.0	1.0	96.3	2.8	115.0	0.5	53.8	0.9	175.0	0.0	57.9	1.0
56.0	1.0	96.7	2.8	116.0	0.5	52.7	0.8	176.0	0.0	58.0	1.0
57.0	1.0	97.0	2.8	117.0	0.5	51.5	0.8	177.0	0.0	58.1	1.0
58.0	1.0	97.5	2.9	118.0	0.5	50.5	0.8	178.0	0.0	58.1	1.0
59.0	1.0	97.8	2.9	119.0	0.5	49.5	0.7	179.0	0.0	58.1	1.0

Horizontal diagram of Maxima

Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)
180.0	0.0	58.1	1.0	240.0	0.5	49.6	0.7	300.0	1.0	98.7	2.9
181.0	0.0	58.0	1.0	241.0	0.5	50.6	0.8	301.0	1.0	98.4	2.9
182.0	0.0	58.0	1.0	242.0	0.5	51.7	0.8	302.0	1.0	98.0	2.9
183.0	0.0	57.8	1.0	243.0	0.5	53.0	0.8	303.0	1.0	97.7	2.9
184.0	0.0	57.8	1.0	244.0	0.5	54.2	0.9	304.0	1.0	97.3	2.9
185.0	0.0	57.6	1.0	245.0	0.5	55.4	0.9	305.0	1.0	96.9	2.8
186.0	0.0	57.4	1.0	246.0	0.5	56.7	1.0	306.0	1.0	96.5	2.8
187.0	0.0	57.2	1.0	247.0	0.5	58.1	1.0	307.0	1.0	95.9	2.8
188.0	0.0	57.0	1.0	248.0	0.5	59.5	1.1	308.0	1.0	95.5	2.8
189.0	0.0	56.8	1.0	249.0	0.5	60.8	1.1	309.0	1.0	94.9	2.7
190.0	0.0	56.5	1.0	250.0	1.0	62.3	1.2	310.0	1.0	94.5	2.7
191.0	0.0	56.2	1.0	251.0	1.0	63.7	1.2	311.0	1.0	94.0	2.7
192.0	0.0	55.8	0.9	252.0	1.0	65.0	1.3	312.0	1.0	93.4	2.6
193.0	0.0	55.5	0.9	253.0	1.0	66.5	1.3	313.0	1.0	92.8	2.6
194.0	0.0	55.1	0.9	254.0	1.0	68.0	1.4	314.0	1.0	92.2	2.6
195.0	0.0	54.8	0.9	255.0	1.0	69.3	1.5	315.0	1.0	91.7	2.5
196.0	0.0	54.4	0.9	256.0	1.0	70.7	1.5	316.0	1.0	91.1	2.5
197.0	0.0	53.9	0.9	257.0	1.0	72.1	1.6	317.0	1.0	90.5	2.5
198.0	0.0	53.5	0.9	258.0	1.0	73.5	1.6	318.0	1.0	89.9	2.4
199.0	0.0	53.0	0.8	259.0	1.0	74.9	1.7	319.0	1.0	89.3	2.4
200.0	0.0	52.6	0.8	260.0	1.0	76.2	1.8	320.0	1.0	88.7	2.4
201.0	0.0	52.1	0.8	261.0	1.0	77.6	1.8	321.0	1.0	88.1	2.3
202.0	0.0	51.5	0.8	262.0	1.0	78.9	1.9	322.0	1.0	87.5	2.3
203.0	0.0	51.0	0.8	263.0	1.0	80.2	1.9	323.0	1.0	86.9	2.3
204.0	0.5	50.5	0.8	264.0	1.0	81.5	2.0	324.0	1.0	86.3	2.2
205.0	0.5	50.0	0.8	265.0	1.0	82.7	2.1	325.0	1.0	85.7	2.2
206.0	0.5	49.4	0.7	266.0	1.0	84.0	2.1	326.0	1.0	85.1	2.2
207.0	0.5	48.9	0.7	267.0	1.0	85.2	2.2	327.0	1.0	84.5	2.2
208.0	0.5	48.3	0.7	268.0	1.0	86.4	2.3	328.0	1.0	83.9	2.1
209.0	0.5	47.8	0.7	269.0	1.0	87.5	2.3	329.0	1.0	83.4	2.1
210.0	0.5	47.3	0.7	270.0	1.0	88.6	2.4	330.0	1.0	82.8	2.1
211.0	0.5	46.7	0.7	271.0	1.0	89.6	2.4	331.0	1.0	82.3	2.0
212.0	0.5	46.2	0.6	272.0	1.0	90.6	2.5	332.0	1.0	81.7	2.0
213.0	0.5	45.6	0.6	273.0	1.0	91.5	2.5	333.0	1.0	81.2	2.0
214.0	0.5	45.1	0.6	274.0	1.0	92.3	2.6	334.0	1.0	80.7	2.0
215.0	0.5	44.6	0.6	275.0	1.0	93.2	2.6	335.0	1.0	80.2	1.9
216.0	0.5	44.1	0.6	276.0	1.0	94.0	2.7	336.0	1.0	79.7	1.9
217.0	0.5	43.7	0.6	277.0	1.0	94.7	2.7	337.0	1.0	79.2	1.9
218.0	0.5	43.2	0.6	278.0	1.0	95.4	2.7	338.0	1.0	78.8	1.9
219.0	0.5	42.9	0.6	279.0	1.0	96.0	2.8	339.0	1.0	78.3	1.9
220.0	0.5	42.5	0.5	280.0	1.0	96.7	2.8	340.0	1.0	77.9	1.8
221.0	0.5	42.2	0.5	281.0	1.0	97.1	2.8	341.0	1.0	77.5	1.8
222.0	0.5	42.0	0.5	282.0	1.0	97.7	2.9	342.0	1.0	77.1	1.8
223.0	0.5	41.8	0.5	283.0	1.0	98.2	2.9	343.0	1.0	76.7	1.8
224.0	0.5	41.7	0.5	284.0	1.0	98.5	2.9	344.0	1.0	76.4	1.8
225.0	0.5	41.6	0.5	285.0	1.0	98.8	2.9	345.0	1.0	76.0	1.7
226.0	0.5	41.6	0.5	286.0	1.0	99.2	3.0	346.0	1.0	75.7	1.7
227.0	0.5	41.7	0.5	287.0	1.0	99.4	3.0	347.0	1.0	75.4	1.7
228.0	0.5	41.8	0.5	288.0	1.0	99.6	3.0	348.0	1.0	75.1	1.7
229.0	0.5	42.0	0.5	289.0	1.0	99.8	3.0	349.0	1.0	74.9	1.7
230.0	0.5	42.3	0.5	290.0	1.0	99.9	3.0	350.0	1.0	74.6	1.7
231.0	0.5	42.7	0.6	291.0	0.9	100.0	3.0	351.0	1.0	74.4	1.7
232.0	0.5	43.2	0.6	292.0	1.0	100.0	3.0	352.0	1.0	74.2	1.7
233.0	0.5	43.8	0.6	293.0	1.0	100.0	3.0	353.0	1.0	74.0	1.7
234.0	0.5	44.4	0.6	294.0	1.0	99.9	3.0	354.0	1.0	73.9	1.6
235.0	0.5	45.0	0.6	295.0	1.0	99.8	3.0	355.0	1.0	73.7	1.6
236.0	0.5	45.8	0.6	296.0	1.0	99.6	3.0	356.0	1.0	73.6	1.6
237.0	0.5	46.6	0.7	297.0	1.0	99.4	3.0	357.0	1.0	73.4	1.6
238.0	0.5	47.5	0.7	298.0	1.0	99.2	3.0	358.0	1.0	73.4	1.6
239.0	0.5	48.5	0.7	299.0	1.0	99.0	3.0	359.0	1.0	73.4	1.6

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	99.4	3.0	15.4	11.2	0.0	30.7	9.3	0.0
0.3	99.7	3.0	15.6	12.5	0.0	31.0	10.1	0.0
0.5	99.9	3.0	15.9	13.7	0.1	31.2	10.8	0.0
0.8	100.0	3.0	16.1	14.9	0.1	31.5	11.6	0.0
1.0	100.0	3.0	16.4	15.9	0.1	31.7	12.3	0.0
1.3	99.8	3.0	16.6	16.8	0.1	32.0	13.0	0.1
1.5	99.5	3.0	16.9	17.7	0.1	32.3	13.6	0.1
1.8	99.1	3.0	17.2	18.5	0.1	32.5	14.3	0.1
2.0	98.5	2.9	17.4	19.2	0.1	32.8	14.8	0.1
2.3	97.8	2.9	17.7	19.8	0.1	33.0	15.4	0.1
2.6	97.0	2.8	17.9	20.3	0.1	33.3	15.9	0.1
2.8	96.1	2.8	18.2	20.8	0.1	33.5	16.4	0.1
3.1	95.0	2.7	18.4	21.1	0.1	33.8	16.8	0.1
3.3	93.8	2.7	18.7	21.4	0.1	34.0	17.2	0.1
3.6	92.5	2.6	18.9	21.6	0.1	34.3	17.6	0.1
3.8	91.1	2.5	19.2	21.8	0.1	34.6	17.9	0.1
4.1	89.6	2.4	19.5	21.9	0.1	34.8	18.2	0.1
4.4	87.9	2.3	19.7	21.9	0.1	35.1	18.4	0.1
4.6	86.1	2.2	20.0	21.9	0.1	35.3	18.6	0.1
4.9	84.2	2.1	20.2	21.8	0.1	35.6	18.8	0.1
5.1	82.3	2.0	20.5	21.6	0.1	35.8	18.9	0.1
5.4	80.2	1.9	20.7	21.4	0.1	36.1	18.9	0.1
5.6	78.1	1.8	21.0	21.1	0.1	36.4	18.9	0.1
5.9	75.9	1.7	21.2	20.7	0.1	36.6	18.9	0.1
6.1	73.6	1.6	21.5	20.4	0.1	36.9	18.9	0.1
6.4	71.2	1.5	21.8	19.9	0.1	37.1	18.7	0.1
6.7	68.8	1.4	22.0	19.4	0.1	37.4	18.6	0.1
6.9	66.3	1.3	22.3	18.9	0.1	37.6	18.4	0.1
7.2	63.7	1.2	22.5	18.4	0.1	37.9	18.2	0.1
7.4	61.1	1.1	22.8	17.7	0.1	38.1	17.9	0.1
7.7	58.5	1.0	23.0	17.1	0.1	38.4	17.6	0.1
7.9	55.8	0.9	23.3	16.4	0.1	38.7	17.2	0.1
8.2	53.1	0.8	23.6	15.7	0.1	38.9	16.8	0.1
8.4	50.3	0.8	23.8	15.0	0.1	39.2	16.4	0.1
8.7	47.6	0.7	24.1	14.2	0.1	39.4	15.9	0.1
9.0	44.8	0.6	24.3	13.4	0.1	39.7	15.4	0.1
9.2	42.1	0.5	24.6	12.6	0.0	39.9	14.8	0.1
9.5	39.3	0.5	24.8	11.7	0.0	40.2	14.3	0.1
9.7	36.6	0.4	25.1	10.9	0.0	40.4	13.6	0.1
10.0	33.8	0.3	25.3	10.0	0.0	40.7	13.0	0.1
10.2	31.1	0.3	25.6	9.1	0.0	41.0	12.3	0.0
10.5	28.4	0.2	25.9	8.2	0.0	41.2	11.7	0.0
10.8	25.8	0.2	26.1	7.2	0.0	41.5	10.9	0.0
11.0	23.2	0.2	26.4	6.3	0.0	41.7	10.2	0.0
11.3	20.6	0.1	26.6	5.4	0.0	42.0	9.4	0.0
11.5	18.1	0.1	26.9	4.4	0.0	42.2	8.7	0.0
11.8	15.7	0.1	27.1	3.5	0.0	42.5	7.9	0.0
12.0	13.3	0.1	27.4	2.5	0.0	42.8	7.1	0.0
12.3	10.9	0.0	27.6	1.6	0.0	43.0	6.2	0.0
12.5	8.6	0.0	27.9	0.6	0.0	43.3	5.4	0.0
12.8	6.4	0.0	28.2	0.4	0.0	43.5	4.6	0.0
13.1	4.3	0.0	28.4	1.3	0.0	43.8	3.7	0.0
13.3	2.3	0.0	28.7	2.2	0.0	44.0	2.9	0.0
13.6	0.3	0.0	28.9	3.2	0.0	44.3	2.0	0.0
13.8	1.6	0.0	29.2	4.1	0.0	44.5	1.1	0.0
14.1	3.4	0.0	29.4	5.0	0.0	44.8	0.3	0.0
14.3	5.2	0.0	29.7	5.9	0.0	45.1	0.6	0.0
14.6	6.8	0.0	30.0	6.8	0.0	45.3	1.4	0.0
14.8	8.4	0.0	30.2	7.6	0.0	45.6	2.3	0.0
15.1	9.8	0.0	30.5	8.5	0.0	45.8	3.1	0.0

Vertical diagram at an azimuth of 292.5°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
46.1	3.9	0.0	61.4	11.7	0.0	76.8	3.9	0.0
46.3	4.7	0.0	61.7	11.3	0.0	77.1	4.0	0.0
46.6	5.5	0.0	62.0	10.9	0.0	77.3	4.1	0.0
46.8	6.3	0.0	62.2	10.5	0.0	77.6	4.2	0.0
47.1	7.1	0.0	62.5	10.1	0.0	77.8	4.2	0.0
47.4	7.8	0.0	62.7	9.7	0.0	78.1	4.3	0.0
47.6	8.6	0.0	63.0	9.3	0.0	78.3	4.4	0.0
47.9	9.3	0.0	63.2	8.9	0.0	78.6	4.5	0.0
48.1	10.0	0.0	63.5	8.5	0.0	78.8	4.6	0.0
48.4	10.7	0.0	63.7	8.1	0.0	79.1	4.6	0.0
48.6	11.3	0.0	64.0	7.7	0.0	79.4	4.7	0.0
48.9	11.9	0.0	64.3	7.3	0.0	79.6	4.8	0.0
49.2	12.5	0.0	64.5	6.9	0.0	79.9	4.9	0.0
49.4	13.1	0.1	64.8	6.6	0.0	80.1	4.9	0.0
49.7	13.6	0.1	65.0	6.2	0.0	80.4	5.0	0.0
49.9	14.2	0.1	65.3	5.8	0.0	80.6	5.1	0.0
50.2	14.7	0.1	65.5	5.4	0.0	80.9	5.1	0.0
50.4	15.1	0.1	65.8	5.1	0.0	81.2	5.2	0.0
50.7	15.5	0.1	66.0	4.7	0.0	81.4	5.3	0.0
50.9	16.0	0.1	66.3	4.4	0.0	81.7	5.3	0.0
51.2	16.3	0.1	66.6	4.1	0.0	81.9	5.4	0.0
51.5	16.7	0.1	66.8	3.7	0.0	82.2	5.5	0.0
51.7	17.0	0.1	67.1	3.4	0.0	82.4	5.5	0.0
52.0	17.3	0.1	67.3	3.1	0.0	82.7	5.6	0.0
52.2	17.5	0.1	67.6	2.8	0.0	82.9	5.6	0.0
52.5	17.7	0.1	67.8	2.5	0.0	83.2	5.7	0.0
52.7	17.9	0.1	68.1	2.2	0.0	83.5	5.8	0.0
53.0	18.1	0.1	68.4	1.9	0.0	83.7	5.8	0.0
53.2	18.3	0.1	68.6	1.6	0.0	84.0	5.9	0.0
53.5	18.4	0.1	68.9	1.3	0.0	84.2	6.0	0.0
53.8	18.4	0.1	69.1	1.1	0.0	84.5	6.0	0.0
54.0	18.5	0.1	69.4	0.8	0.0	84.7	6.1	0.0
54.3	18.5	0.1	69.6	0.5	0.0	85.0	6.1	0.0
54.5	18.5	0.1	69.9	0.3	0.0	85.2	6.2	0.0
54.8	18.5	0.1	70.1	0.1	0.0	85.5	6.2	0.0
55.0	18.5	0.1	70.4	0.2	0.0	85.8	6.3	0.0
55.3	18.4	0.1	70.7	0.4	0.0	86.0	6.3	0.0
55.6	18.3	0.1	70.9	0.6	0.0	86.3	6.4	0.0
55.8	18.2	0.1	71.2	0.8	0.0	86.5	6.4	0.0
56.1	18.1	0.1	71.4	1.0	0.0	86.8	6.5	0.0
56.3	17.9	0.1	71.7	1.2	0.0	87.0	6.5	0.0
56.6	17.7	0.1	71.9	1.4	0.0	87.3	6.6	0.0
56.8	17.5	0.1	72.2	1.6	0.0	87.6	6.6	0.0
57.1	17.3	0.1	72.4	1.7	0.0	87.8	6.7	0.0
57.3	17.1	0.1	72.7	1.9	0.0	88.1	6.7	0.0
57.6	16.8	0.1	73.0	2.1	0.0	88.3	6.8	0.0
57.9	16.5	0.1	73.2	2.2	0.0	88.6	6.8	0.0
58.1	16.3	0.1	73.5	2.4	0.0	88.8	6.8	0.0
58.4	16.0	0.1	73.7	2.5	0.0	89.1	6.9	0.0
58.6	15.7	0.1	74.0	2.7	0.0	89.3	6.9	0.0
58.9	15.3	0.1	74.2	2.8	0.0	89.6	6.9	0.0
59.1	15.0	0.1	74.5	2.9	0.0	89.9	7.0	0.0
59.4	14.7	0.1	74.8	3.0	0.0	90.1	4.4	0.0
59.6	14.3	0.1	75.0	3.2	0.0	90.4	4.4	0.0
59.9	14.0	0.1	75.3	3.3	0.0	90.6	4.4	0.0
60.2	13.6	0.1	75.5	3.4	0.0	90.9	4.4	0.0
60.4	13.2	0.1	75.8	3.5	0.0	91.1	4.4	0.0
60.7	12.8	0.0	76.0	3.6	0.0	91.4	4.4	0.0
60.9	12.4	0.0	76.3	3.7	0.0	91.6	4.3	0.0
61.2	12.1	0.0	76.5	3.8	0.0	91.9	4.3	0.0