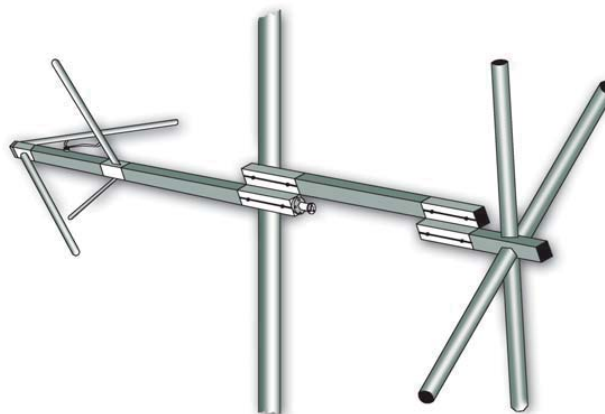


10 Bay TFC2K-D 98.1MHz

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	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

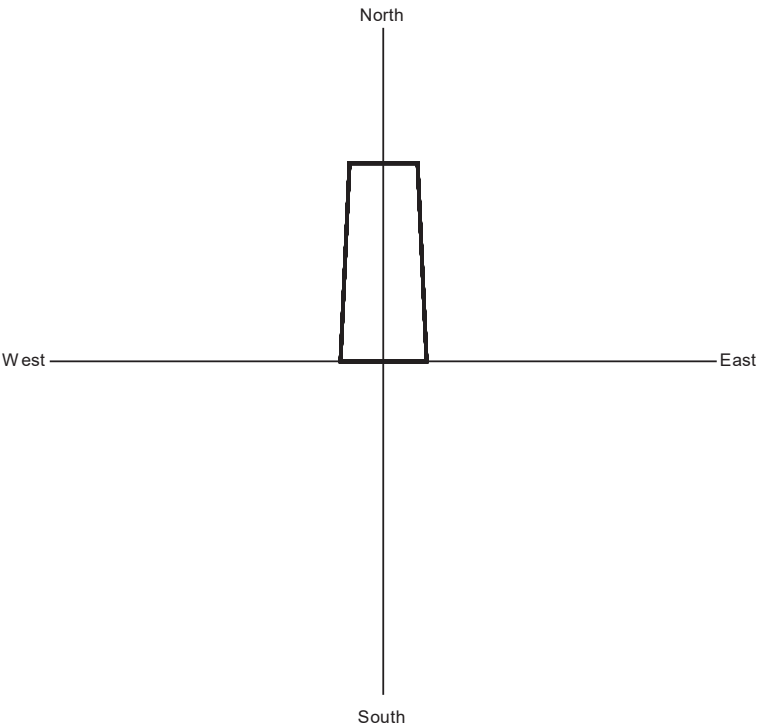
Information about antennas used in the System

	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

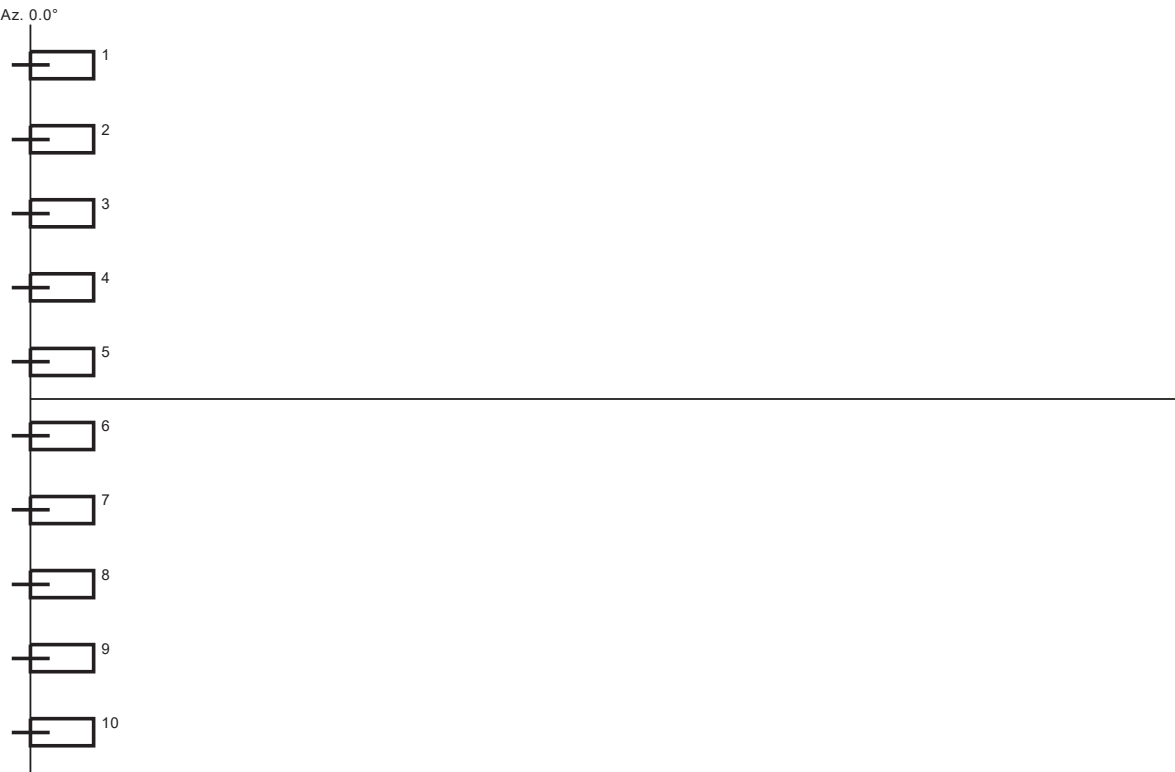
Geometrical and electrical data of antenna System

	<i>Power (%)</i>	<i>Tilt (°)</i>	<i>Az. (°/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	10.000	0	0	0 +0.0	11.70	0.0	0.0	1	1	0.0	0.0
2	10.000	0	0	0 +0.0	9.10	0.0	0.0	1	1	0.0	0.0
3	10.000	0	0	0 +0.0	6.50	0.0	0.0	1	1	0.0	0.0
4	10.000	0	0	0 +0.0	3.90	0.0	0.0	1	1	0.0	0.0
5	10.000	0	0	0 +0.0	1.30	0.0	0.0	1	1	0.0	0.0
6	10.000	0	0	0 +0.0	-1.30	0.0	0.0	1	1	0.0	0.0
7	10.000	0	0	0 +0.0	-3.90	0.0	0.0	1	1	0.0	0.0
8	10.000	0	0	0 +0.0	-6.50	0.0	0.0	1	1	0.0	0.0
9	10.000	0	0	0 +0.0	-9.10	0.0	0.0	1	1	0.0	0.0
10	10.000	0	0	0 +0.0	-11.70	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	10
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)	8.31
G. Distribution losses (dB)	0.00
H. Nominal max gain F - G (dBd)	8.31
I. Compensation losses (dB)	0.55
J. Effec. max gain H - I (dBd)	7.76
K. Effec. max gain (times)	5.98
L. Effec. max power E * K (KW)	0.0060
M. Max power depr. angle (°)	0.2
N. Max power az. angle (°)	291

Diagram in dBK calculated at horizon

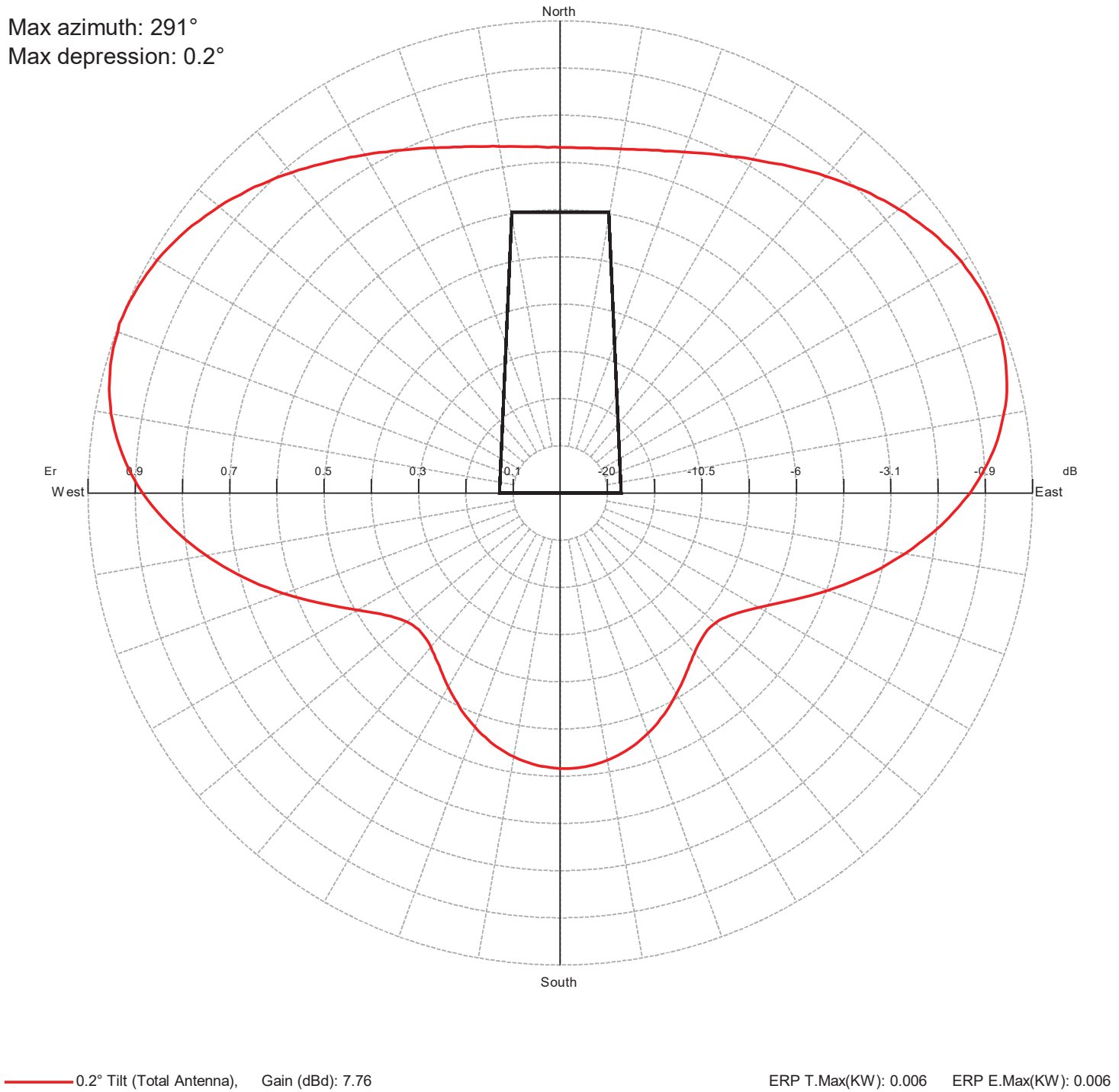
Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	-25.0	90	-23.5	180	-26.9	270	-23.3
10	-24.9	100	-24.8	190	-27.2	280	-22.5
20	-24.5	110	-26.6	200	-27.8	290	-22.3
30	-24.0	120	-28.5	210	-28.7	300	-22.4
40	-23.4	130	-29.6	220	-29.6	310	-22.7
50	-22.8	140	-29.3	230	-29.7	320	-23.3
60	-22.4	150	-28.4	240	-28.3	330	-23.9
70	-22.3	160	-27.6	250	-26.3	340	-24.4
80	-22.7	170	-27.0	260	-24.6	350	-24.8

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	-25.0	90	-23.5	180	-26.9	270	-23.3
10	-24.9	100	-24.8	190	-27.2	280	-22.5
20	-24.5	110	-26.6	200	-27.8	290	-22.3
30	-24.0	120	-28.5	210	-28.7	300	-22.4
40	-23.4	130	-29.6	220	-29.6	310	-22.7
50	-22.8	140	-29.3	230	-29.7	320	-23.3
60	-22.4	150	-28.4	240	-28.3	330	-23.9
70	-22.3	160	-27.6	250	-26.3	340	-24.4
80	-22.7	170	-27.0	260	-24.6	350	-24.8

Horizontal diagram of Maxima

Max azimuth: 291°
Max depression: 0.2°



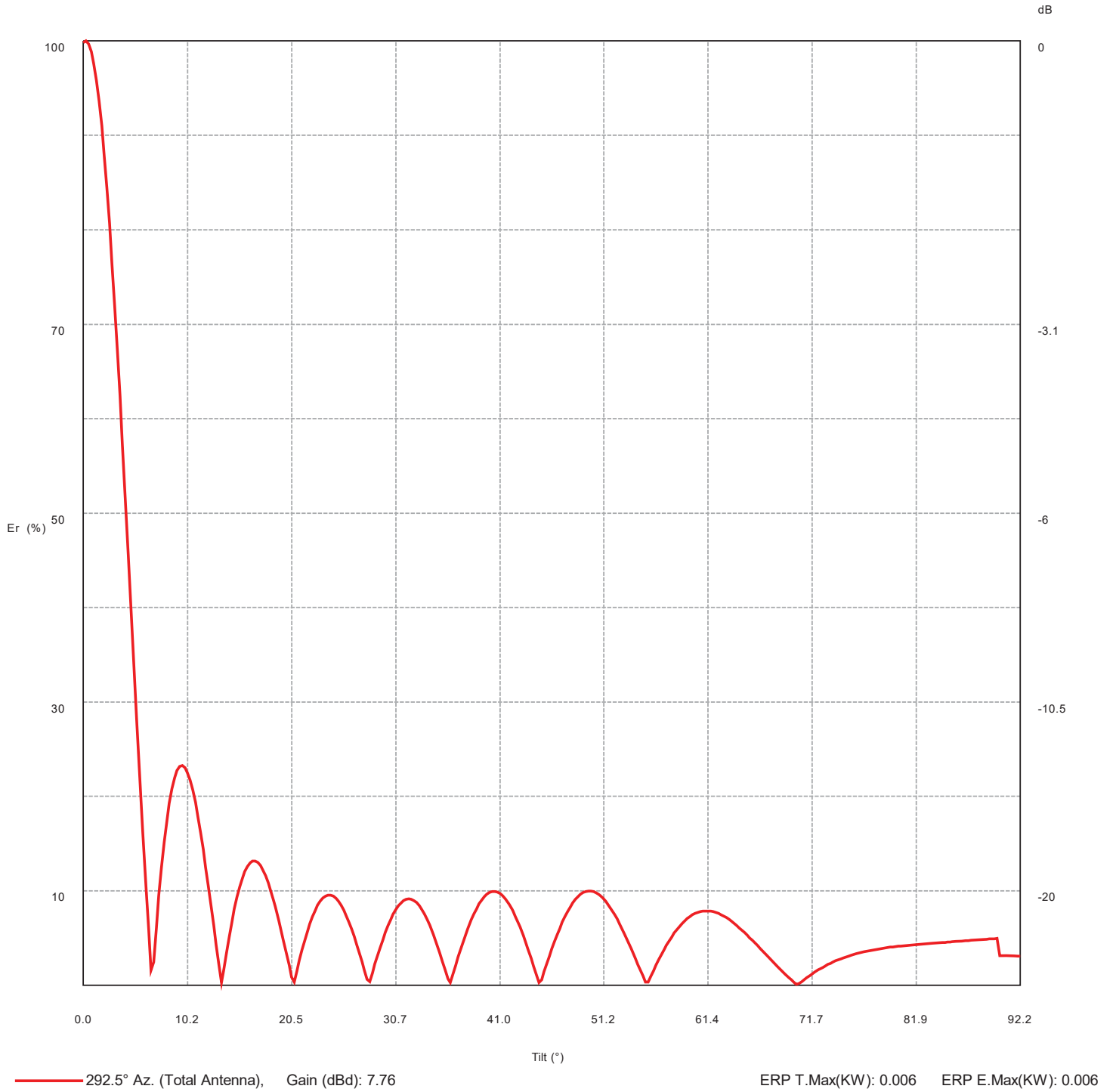
Horizontal diagram of Maxima

Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)
0.0	0.0	73.2	3.2	60.0	0.0	98.0	5.7	120.0	0.0	48.5	1.4
1.0	0.0	73.2	3.2	61.0	0.0	98.2	5.8	121.0	0.0	47.7	1.4
2.0	0.0	73.2	3.2	62.0	0.0	98.5	5.8	122.0	0.0	46.8	1.3
3.0	0.0	73.2	3.2	63.0	0.0	98.7	5.8	123.0	0.0	46.1	1.3
4.0	0.0	73.3	3.2	64.0	0.0	98.9	5.8	124.0	0.0	45.4	1.2
5.0	0.0	73.3	3.2	65.0	0.0	99.0	5.9	125.0	0.0	44.8	1.2
6.0	0.0	73.4	3.2	66.0	0.0	99.2	5.9	126.0	0.0	44.2	1.2
7.0	0.0	73.5	3.2	67.0	0.0	99.2	5.9	127.0	0.0	43.8	1.1
8.0	0.0	73.7	3.2	68.0	0.0	99.2	5.9	128.0	0.0	43.4	1.1
9.0	0.0	73.8	3.3	69.0	0.0	99.2	5.9	129.0	0.0	43.1	1.1
10.0	0.0	74.0	3.3	70.0	0.0	99.0	5.9	130.0	0.0	42.9	1.1
11.0	0.0	74.2	3.3	71.0	0.0	98.9	5.8	131.0	0.0	42.7	1.1
12.0	0.0	74.4	3.3	72.0	0.0	98.7	5.8	132.0	0.0	42.6	1.1
13.0	0.0	74.6	3.3	73.0	0.0	98.5	5.8	133.0	0.0	42.6	1.1
14.0	0.0	74.9	3.3	74.0	0.0	98.1	5.8	134.0	0.0	42.7	1.1
15.0	0.0	75.1	3.4	75.0	0.0	97.8	5.7	135.0	0.0	42.8	1.1
16.0	0.0	75.5	3.4	76.0	0.0	97.5	5.7	136.0	0.0	43.0	1.1
17.0	0.0	75.7	3.4	77.0	0.0	97.0	5.6	137.0	0.0	43.3	1.1
18.0	0.0	76.1	3.5	78.0	0.0	96.6	5.6	138.0	0.0	43.5	1.1
19.0	0.0	76.4	3.5	79.0	0.0	96.0	5.5	139.0	0.0	43.8	1.1
20.0	0.0	76.9	3.5	80.0	0.0	95.3	5.4	140.0	0.0	44.2	1.2
21.0	0.0	77.2	3.6	81.0	0.0	94.7	5.4	141.0	0.0	44.6	1.2
22.0	0.0	77.7	3.6	82.0	0.0	94.0	5.3	142.0	0.0	45.1	1.2
23.0	0.0	78.1	3.6	83.0	0.0	93.3	5.2	143.0	0.0	45.5	1.2
24.0	0.0	78.6	3.7	84.0	0.0	92.5	5.1	144.0	0.0	46.0	1.3
25.0	0.0	79.0	3.7	85.0	0.0	91.7	5.0	145.0	0.0	46.5	1.3
26.0	0.0	79.5	3.8	86.0	0.0	90.7	4.9	146.0	0.0	47.1	1.3
27.0	0.0	79.9	3.8	87.0	0.0	89.8	4.8	147.0	0.0	47.5	1.4
28.0	0.0	80.5	3.9	88.0	0.0	88.8	4.7	148.0	0.0	48.1	1.4
29.0	0.0	81.1	3.9	89.0	0.0	87.8	4.6	149.0	0.0	48.6	1.4
30.0	0.0	81.6	4.0	90.0	0.0	86.8	4.5	150.0	0.0	49.2	1.4
31.0	0.0	82.1	4.0	91.0	0.0	85.6	4.4	151.0	0.0	49.7	1.5
32.0	0.0	82.7	4.1	92.0	0.0	84.4	4.3	152.0	0.0	50.2	1.5
33.0	0.0	83.2	4.1	93.0	0.0	83.2	4.1	153.0	0.0	50.8	1.5
34.0	0.0	83.9	4.2	94.0	0.0	82.0	4.0	154.0	0.0	51.3	1.6
35.0	0.0	84.5	4.3	95.0	0.0	80.7	3.9	155.0	0.0	51.9	1.6
36.0	0.0	85.1	4.3	96.0	0.0	79.5	3.8	156.0	0.0	52.3	1.6
37.0	0.0	85.7	4.4	97.0	0.0	78.1	3.6	157.0	0.0	52.8	1.7
38.0	0.0	86.3	4.4	98.0	0.0	76.8	3.5	158.0	0.0	53.3	1.7
39.0	0.0	87.0	4.5	99.0	0.0	75.4	3.4	159.0	0.0	53.8	1.7
40.0	0.0	87.6	4.6	100.0	0.0	74.1	3.3	160.0	0.0	54.2	1.8
41.0	0.0	88.2	4.6	101.0	0.0	72.7	3.2	161.0	0.0	54.6	1.8
42.0	0.0	88.8	4.7	102.0	0.0	71.4	3.0	162.0	0.0	55.0	1.8
43.0	0.0	89.4	4.8	103.0	0.0	70.0	2.9	163.0	0.0	55.4	1.8
44.0	0.0	90.0	4.8	104.0	0.0	68.6	2.8	164.0	0.0	55.8	1.9
45.0	0.0	90.6	4.9	105.0	0.0	67.2	2.7	165.0	0.0	56.1	1.9
46.0	0.0	91.3	5.0	106.0	0.0	65.8	2.6	166.0	0.0	56.4	1.9
47.0	0.0	91.8	5.0	107.0	0.0	64.4	2.5	167.0	0.0	56.7	1.9
48.0	0.0	92.4	5.1	108.0	0.0	63.0	2.4	168.0	0.0	57.0	1.9
49.0	0.0	93.0	5.2	109.0	0.0	61.7	2.3	169.0	0.0	57.2	2.0
50.0	0.0	93.5	5.2	110.0	0.0	60.3	2.2	170.0	0.0	57.5	2.0
51.0	0.0	94.1	5.3	111.0	0.0	58.9	2.1	171.0	0.0	57.7	2.0
52.0	0.0	94.6	5.3	112.0	0.0	57.6	2.0	172.0	0.0	57.8	2.0
53.0	0.0	95.1	5.4	113.0	0.0	56.3	1.9	173.0	0.0	58.0	2.0
54.0	0.0	95.6	5.5	114.0	0.0	55.1	1.8	174.0	0.0	58.1	2.0
55.0	0.0	96.1	5.5	115.0	0.0	53.8	1.7	175.0	0.0	58.2	2.0
56.0	0.0	96.6	5.6	116.0	0.0	52.7	1.7	176.0	0.0	58.3	2.0
57.0	0.0	96.9	5.6	117.0	0.0	51.6	1.6	177.0	0.0	58.4	2.0
58.0	0.0	97.3	5.7	118.0	0.0	50.5	1.5	178.0	0.0	58.4	2.0
59.0	0.0	97.7	5.7	119.0	0.0	49.5	1.5	179.0	0.0	58.4	2.0

Horizontal diagram of Maxima

Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)
180.0	0.0	58.4	2.0	240.0	0.0	49.6	1.5	300.0	0.0	98.6	5.8
181.0	0.0	58.3	2.0	241.0	0.0	50.7	1.5	301.0	0.0	98.2	5.8
182.0	0.0	58.2	2.0	242.0	0.0	51.8	1.6	302.0	0.0	97.9	5.7
183.0	0.0	58.1	2.0	243.0	0.0	53.0	1.7	303.0	0.0	97.6	5.7
184.0	0.0	58.0	2.0	244.0	0.0	54.3	1.8	304.0	0.0	97.1	5.6
185.0	0.0	57.9	2.0	245.0	0.0	55.5	1.8	305.0	0.0	96.8	5.6
186.0	0.0	57.7	2.0	246.0	0.0	56.8	1.9	306.0	0.0	96.3	5.5
187.0	0.0	57.5	2.0	247.0	0.0	58.1	2.0	307.0	0.0	95.8	5.5
188.0	0.0	57.2	2.0	248.0	0.0	59.5	2.1	308.0	0.0	95.3	5.4
189.0	0.0	57.0	1.9	249.0	0.0	60.8	2.2	309.0	0.0	94.8	5.4
190.0	0.0	56.7	1.9	250.0	0.0	62.3	2.3	310.0	0.0	94.4	5.3
191.0	0.0	56.5	1.9	251.0	0.0	63.7	2.4	311.0	0.0	93.8	5.3
192.0	0.0	56.1	1.9	252.0	0.0	65.0	2.5	312.0	0.0	93.3	5.2
193.0	0.0	55.8	1.9	253.0	0.0	66.5	2.6	313.0	0.0	92.6	5.1
194.0	0.0	55.4	1.8	254.0	0.0	67.9	2.8	314.0	0.0	92.1	5.1
195.0	0.0	55.1	1.8	255.0	0.0	69.3	2.9	315.0	0.0	91.6	5.0
196.0	0.0	54.7	1.8	256.0	0.0	70.7	3.0	316.0	0.0	91.0	4.9
197.0	0.0	54.2	1.8	257.0	0.0	72.1	3.1	317.0	0.0	90.3	4.9
198.0	0.0	53.8	1.7	258.0	0.0	73.4	3.2	318.0	0.0	89.8	4.8
199.0	0.0	53.3	1.7	259.0	0.0	74.8	3.3	319.0	0.0	89.2	4.8
200.0	0.0	52.8	1.7	260.0	0.0	76.2	3.5	320.0	0.0	88.6	4.7
201.0	0.0	52.3	1.6	261.0	0.0	77.5	3.6	321.0	0.0	88.0	4.6
202.0	0.0	51.8	1.6	262.0	0.0	78.8	3.7	322.0	0.0	87.4	4.6
203.0	0.0	51.3	1.6	263.0	0.0	80.1	3.8	323.0	0.0	86.8	4.5
204.0	0.0	50.8	1.5	264.0	0.0	81.4	4.0	324.0	0.0	86.2	4.4
205.0	0.0	50.2	1.5	265.0	0.0	82.6	4.1	325.0	0.0	85.6	4.4
206.0	0.0	49.6	1.5	266.0	0.0	83.9	4.2	326.0	0.0	85.0	4.3
207.0	0.0	49.1	1.4	267.0	0.0	85.1	4.3	327.0	0.0	84.4	4.3
208.0	0.0	48.5	1.4	268.0	0.0	86.2	4.4	328.0	0.0	83.8	4.2
209.0	0.0	48.0	1.4	269.0	0.0	87.4	4.6	329.0	0.0	83.2	4.1
210.0	0.0	47.5	1.3	270.0	0.0	88.5	4.7	330.0	0.0	82.7	4.1
211.0	0.0	46.9	1.3	271.0	0.0	89.5	4.8	331.0	0.0	82.2	4.0
212.0	0.0	46.3	1.3	272.0	0.0	90.4	4.9	332.0	0.0	81.6	4.0
213.0	0.0	45.8	1.3	273.0	0.0	91.4	5.0	333.0	0.0	81.1	3.9
214.0	0.0	45.2	1.2	274.0	0.0	92.2	5.1	334.0	0.0	80.6	3.9
215.0	0.0	44.7	1.2	275.0	0.0	93.1	5.2	335.0	0.0	80.0	3.8
216.0	0.0	44.3	1.2	276.0	0.0	93.8	5.3	336.0	0.0	79.6	3.8
217.0	0.0	43.8	1.1	277.0	0.0	94.6	5.3	337.0	0.0	79.1	3.7
218.0	0.0	43.4	1.1	278.0	0.0	95.2	5.4	338.0	0.0	78.7	3.7
219.0	0.0	43.0	1.1	279.0	0.0	95.9	5.5	339.0	0.0	78.2	3.7
220.0	0.0	42.6	1.1	280.0	0.0	96.6	5.6	340.0	0.0	77.8	3.6
221.0	0.0	42.4	1.1	281.0	0.0	97.0	5.6	341.0	0.0	77.4	3.6
222.0	0.0	42.1	1.1	282.0	0.0	97.6	5.7	342.0	0.0	77.0	3.5
223.0	0.0	41.9	1.1	283.0	0.0	98.0	5.7	343.0	0.0	76.6	3.5
224.0	0.0	41.8	1.0	284.0	0.0	98.4	5.8	344.0	0.0	76.3	3.5
225.0	0.0	41.7	1.0	285.0	0.0	98.7	5.8	345.0	0.0	75.9	3.4
226.0	0.0	41.7	1.0	286.0	0.0	99.0	5.9	346.0	0.0	75.6	3.4
227.0	0.0	41.8	1.0	287.0	0.0	99.3	5.9	347.0	0.0	75.3	3.4
228.0	0.0	41.9	1.1	288.0	0.0	99.5	5.9	348.0	0.0	75.0	3.4
229.0	0.0	42.1	1.1	289.0	0.0	99.6	5.9	349.0	0.0	74.8	3.3
230.0	0.0	42.4	1.1	290.0	0.0	99.7	5.9	350.0	0.0	74.5	3.3
231.0	0.0	42.8	1.1	291.0	0.2	100.0	6.0	351.0	0.0	74.3	3.3
232.0	0.0	43.3	1.1	292.0	0.0	99.8	6.0	352.0	0.0	74.1	3.3
233.0	0.0	43.8	1.1	293.0	0.0	99.8	6.0	353.0	0.0	73.9	3.3
234.0	0.0	44.4	1.2	294.0	0.0	99.7	5.9	354.0	0.0	73.8	3.3
235.0	0.0	45.1	1.2	295.0	0.0	99.6	5.9	355.0	0.0	73.6	3.2
236.0	0.0	45.9	1.3	296.0	0.0	99.5	5.9	356.0	0.0	73.5	3.2
237.0	0.0	46.7	1.3	297.0	0.0	99.3	5.9	357.0	0.0	73.3	3.2
238.0	0.0	47.6	1.4	298.0	0.0	99.0	5.9	358.0	0.0	73.3	3.2
239.0	0.0	48.6	1.4	299.0	0.0	98.8	5.8	359.0	0.0	73.3	3.2

Vertical diagram at an azimuth of 292.5° degrees



Vertical diagram at an azimuth of 292.5°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
0.0	99.8	6.0	15.4	10.4	0.1	30.7	8.0	0.0
0.3	100.0	6.0	15.6	11.3	0.1	31.0	8.4	0.0
0.5	99.7	5.9	15.9	12.0	0.1	31.2	8.7	0.0
0.8	98.9	5.8	16.1	12.6	0.1	31.5	9.0	0.0
1.0	97.6	5.7	16.4	12.9	0.1	31.7	9.1	0.0
1.3	95.8	5.5	16.6	13.1	0.1	32.0	9.1	0.0
1.5	93.6	5.2	16.9	13.1	0.1	32.3	9.1	0.0
1.8	91.0	4.9	17.2	13.0	0.1	32.5	9.0	0.0
2.0	87.9	4.6	17.4	12.7	0.1	32.8	8.7	0.0
2.3	84.5	4.3	17.7	12.2	0.1	33.0	8.4	0.0
2.6	80.6	3.9	17.9	11.6	0.1	33.3	8.0	0.0
2.8	76.5	3.5	18.2	10.8	0.1	33.5	7.5	0.0
3.1	72.0	3.1	18.4	10.0	0.1	33.8	7.0	0.0
3.3	67.3	2.7	18.7	9.0	0.0	34.0	6.4	0.0
3.6	62.4	2.3	18.9	8.0	0.0	34.3	5.7	0.0
3.8	57.3	2.0	19.2	6.9	0.0	34.6	4.9	0.0
4.1	52.1	1.6	19.5	5.7	0.0	34.8	4.1	0.0
4.4	46.7	1.3	19.7	4.5	0.0	35.1	3.3	0.0
4.6	41.3	1.0	20.0	3.3	0.0	35.3	2.5	0.0
4.9	35.9	0.8	20.2	2.1	0.0	35.6	1.6	0.0
5.1	30.6	0.6	20.5	0.9	0.0	35.8	0.7	0.0
5.4	25.3	0.4	20.7	0.3	0.0	36.1	0.3	0.0
5.6	20.2	0.2	21.0	1.5	0.0	36.4	1.2	0.0
5.9	15.2	0.1	21.2	2.7	0.0	36.6	2.1	0.0
6.1	10.4	0.1	21.5	3.7	0.0	36.9	3.0	0.0
6.4	5.9	0.0	21.8	4.7	0.0	37.1	3.8	0.0
6.7	1.6	0.0	22.0	5.7	0.0	37.4	4.7	0.0
6.9	2.4	0.0	22.3	6.5	0.0	37.6	5.5	0.0
7.2	6.1	0.0	22.5	7.3	0.0	37.9	6.2	0.0
7.4	9.5	0.1	22.8	7.9	0.0	38.1	6.9	0.0
7.7	12.5	0.1	23.0	8.5	0.0	38.4	7.5	0.0
7.9	15.1	0.1	23.3	8.9	0.0	38.7	8.1	0.0
8.2	17.4	0.2	23.6	9.2	0.1	38.9	8.6	0.0
8.4	19.3	0.2	23.8	9.4	0.1	39.2	9.0	0.0
8.7	20.8	0.3	24.1	9.5	0.1	39.4	9.4	0.1
9.0	22.0	0.3	24.3	9.5	0.1	39.7	9.6	0.1
9.2	22.7	0.3	24.6	9.4	0.1	39.9	9.8	0.1
9.5	23.2	0.3	24.8	9.2	0.1	40.2	9.9	0.1
9.7	23.3	0.3	25.1	8.9	0.0	40.4	9.9	0.1
10.0	23.0	0.3	25.3	8.5	0.0	40.7	9.9	0.1
10.2	22.5	0.3	25.6	8.0	0.0	41.0	9.7	0.1
10.5	21.7	0.3	25.9	7.4	0.0	41.2	9.5	0.1
10.8	20.6	0.3	26.1	6.7	0.0	41.5	9.2	0.1
11.0	19.4	0.2	26.4	6.0	0.0	41.7	8.8	0.0
11.3	17.9	0.2	26.6	5.2	0.0	42.0	8.4	0.0
11.5	16.2	0.2	26.9	4.3	0.0	42.2	7.9	0.0
11.8	14.4	0.1	27.1	3.4	0.0	42.5	7.3	0.0
12.0	12.5	0.1	27.4	2.5	0.0	42.8	6.6	0.0
12.3	10.5	0.1	27.6	1.6	0.0	43.0	6.0	0.0
12.5	8.4	0.0	27.9	0.6	0.0	43.3	5.2	0.0
12.8	6.4	0.0	28.2	0.4	0.0	43.5	4.5	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	2.8	0.0
13.6	0.3	0.0	28.9	3.1	0.0	44.3	2.0	0.0
13.8	1.6	0.0	29.2	4.0	0.0	44.5	1.2	0.0
14.1	3.4	0.0	29.4	4.8	0.0	44.8	0.3	0.0
14.3	5.1	0.0	29.7	5.6	0.0	45.1	0.6	0.0
14.6	6.7	0.0	30.0	6.3	0.0	45.3	1.4	0.0
14.8	8.1	0.0	30.2	6.9	0.0	45.6	2.3	0.0
15.1	9.3	0.1	30.5	7.5	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	7.9	0.0	76.8	3.5	0.0
46.3	4.6	0.0	61.7	7.8	0.0	77.1	3.6	0.0
46.6	5.3	0.0	62.0	7.8	0.0	77.3	3.7	0.0
46.8	6.0	0.0	62.2	7.7	0.0	77.6	3.7	0.0
47.1	6.7	0.0	62.5	7.6	0.0	77.8	3.8	0.0
47.4	7.3	0.0	62.7	7.5	0.0	78.1	3.8	0.0
47.6	7.8	0.0	63.0	7.3	0.0	78.3	3.9	0.0
47.9	8.3	0.0	63.2	7.1	0.0	78.6	3.9	0.0
48.1	8.7	0.0	63.5	7.0	0.0	78.8	3.9	0.0
48.4	9.1	0.0	63.7	6.8	0.0	79.1	4.0	0.0
48.6	9.4	0.1	64.0	6.5	0.0	79.4	4.0	0.0
48.9	9.6	0.1	64.3	6.3	0.0	79.6	4.0	0.0
49.2	9.8	0.1	64.5	6.1	0.0	79.9	4.1	0.0
49.4	9.9	0.1	64.8	5.8	0.0	80.1	4.1	0.0
49.7	10.0	0.1	65.0	5.6	0.0	80.4	4.1	0.0
49.9	10.0	0.1	65.3	5.3	0.0	80.6	4.2	0.0
50.2	9.9	0.1	65.5	5.0	0.0	80.9	4.2	0.0
50.4	9.8	0.1	65.8	4.7	0.0	81.2	4.2	0.0
50.7	9.6	0.1	66.0	4.5	0.0	81.4	4.2	0.0
50.9	9.4	0.1	66.3	4.2	0.0	81.7	4.3	0.0
51.2	9.1	0.0	66.6	3.9	0.0	81.9	4.3	0.0
51.5	8.8	0.0	66.8	3.6	0.0	82.2	4.3	0.0
51.7	8.4	0.0	67.1	3.3	0.0	82.4	4.3	0.0
52.0	8.0	0.0	67.3	3.0	0.0	82.7	4.4	0.0
52.2	7.5	0.0	67.6	2.7	0.0	82.9	4.4	0.0
52.5	7.0	0.0	67.8	2.4	0.0	83.2	4.4	0.0
52.7	6.5	0.0	68.1	2.1	0.0	83.5	4.4	0.0
53.0	5.9	0.0	68.4	1.9	0.0	83.7	4.5	0.0
53.2	5.3	0.0	68.6	1.6	0.0	84.0	4.5	0.0
53.5	4.7	0.0	68.9	1.3	0.0	84.2	4.5	0.0
53.8	4.1	0.0	69.1	1.1	0.0	84.5	4.5	0.0
54.0	3.5	0.0	69.4	0.8	0.0	84.7	4.5	0.0
54.3	2.9	0.0	69.6	0.5	0.0	85.0	4.6	0.0
54.5	2.2	0.0	69.9	0.3	0.0	85.2	4.6	0.0
54.8	1.6	0.0	70.1	0.1	0.0	85.5	4.6	0.0
55.0	0.9	0.0	70.4	0.2	0.0	85.8	4.6	0.0
55.3	0.3	0.0	70.7	0.4	0.0	86.0	4.6	0.0
55.6	0.3	0.0	70.9	0.6	0.0	86.3	4.7	0.0
55.8	0.9	0.0	71.2	0.8	0.0	86.5	4.7	0.0
56.1	1.5	0.0	71.4	1.0	0.0	86.8	4.7	0.0
56.3	2.1	0.0	71.7	1.2	0.0	87.0	4.7	0.0
56.6	2.7	0.0	71.9	1.4	0.0	87.3	4.7	0.0
56.8	3.2	0.0	72.2	1.6	0.0	87.6	4.8	0.0
57.1	3.7	0.0	72.4	1.7	0.0	87.8	4.8	0.0
57.3	4.2	0.0	72.7	1.9	0.0	88.1	4.8	0.0
57.6	4.7	0.0	73.0	2.0	0.0	88.3	4.8	0.0
57.9	5.1	0.0	73.2	2.2	0.0	88.6	4.8	0.0
58.1	5.5	0.0	73.5	2.3	0.0	88.8	4.9	0.0
58.4	5.9	0.0	73.7	2.4	0.0	89.1	4.9	0.0
58.6	6.2	0.0	74.0	2.6	0.0	89.3	4.9	0.0
58.9	6.5	0.0	74.2	2.7	0.0	89.6	4.9	0.0
59.1	6.8	0.0	74.5	2.8	0.0	89.9	4.9	0.0
59.4	7.0	0.0	74.8	2.9	0.0	90.1	3.1	0.0
59.6	7.3	0.0	75.0	3.0	0.0	90.4	3.1	0.0
59.9	7.4	0.0	75.3	3.1	0.0	90.6	3.1	0.0
60.2	7.6	0.0	75.5	3.2	0.0	90.9	3.1	0.0
60.4	7.7	0.0	75.8	3.3	0.0	91.1	3.1	0.0
60.7	7.8	0.0	76.0	3.3	0.0	91.4	3.1	0.0
60.9	7.8	0.0	76.3	3.4	0.0	91.6	3.1	0.0
61.2	7.9	0.0	76.5	3.5	0.0	91.9	3.1	0.0