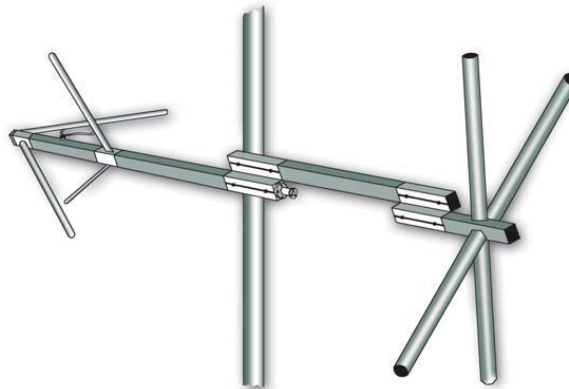


1 Bay TFC2K-D 98.1MHz

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
Antenna base Electrical Tilt type 1	
Mechanical Tilt	0
Azimuth (°):	0.0
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

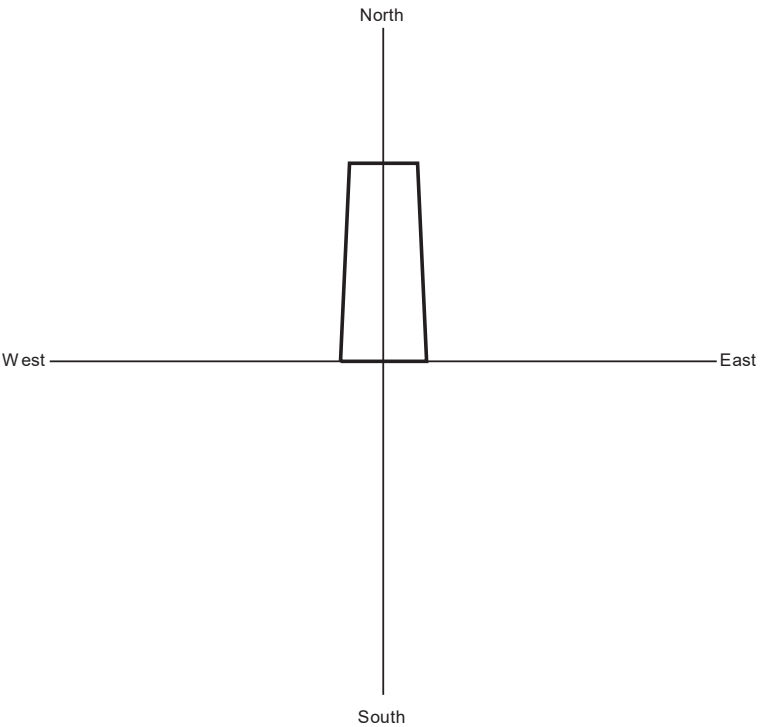
Information about antennas used in the System

	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

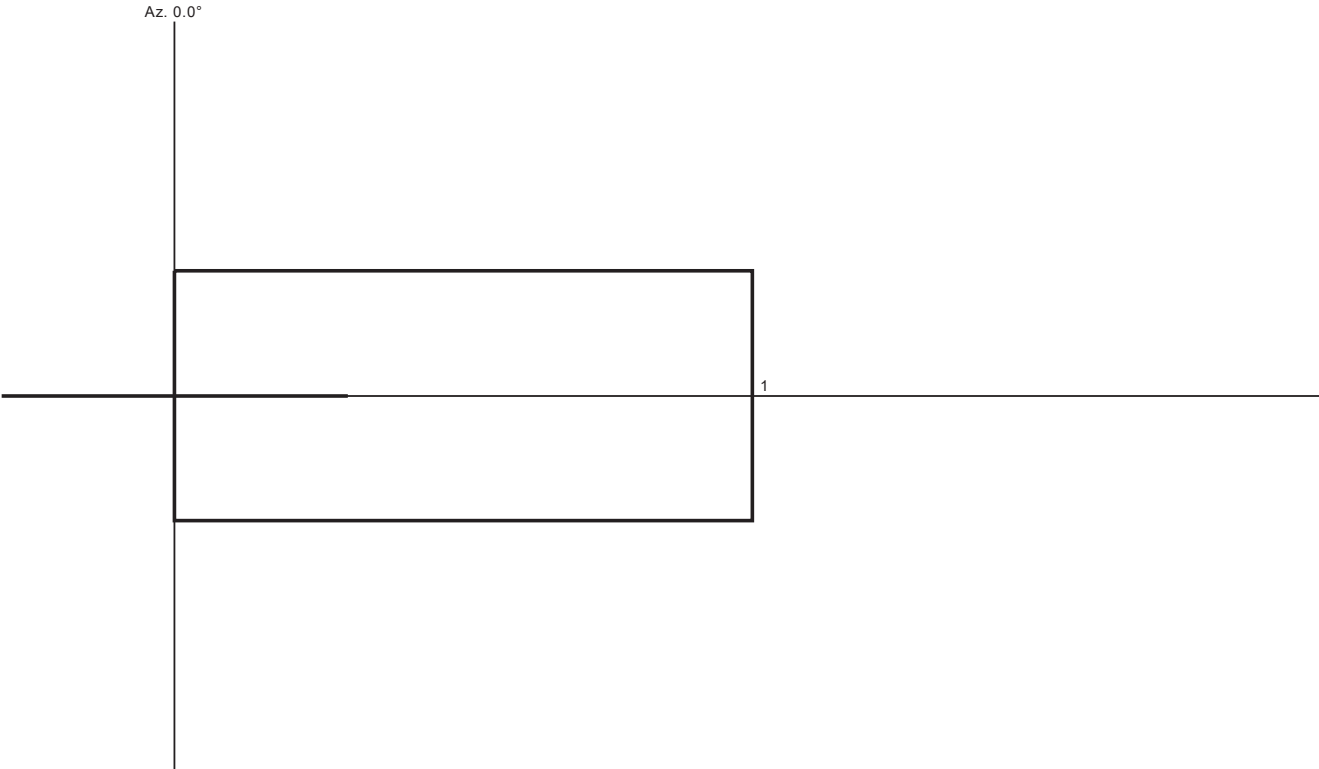
Geometrical and electrical data of antenna System

	<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	100.000	0	0	0 +0.0	0.00	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	1
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)	-1.69
G. Distribution losses (dB)	0.00
H. Nominal max gain F - G (dBd)	-1.69
I. Compensation losses (dB)	0.10
J. Effec. max gain H - I (dBd)	-1.79
K. Effec. max gain (times)	0.66
L. Effec. max power E * K (KW)	0.0007
M. Max power depr. angle (°)	6.0
N. Max power az. angle (°)	292

Diagram in dBK calculated at horizon

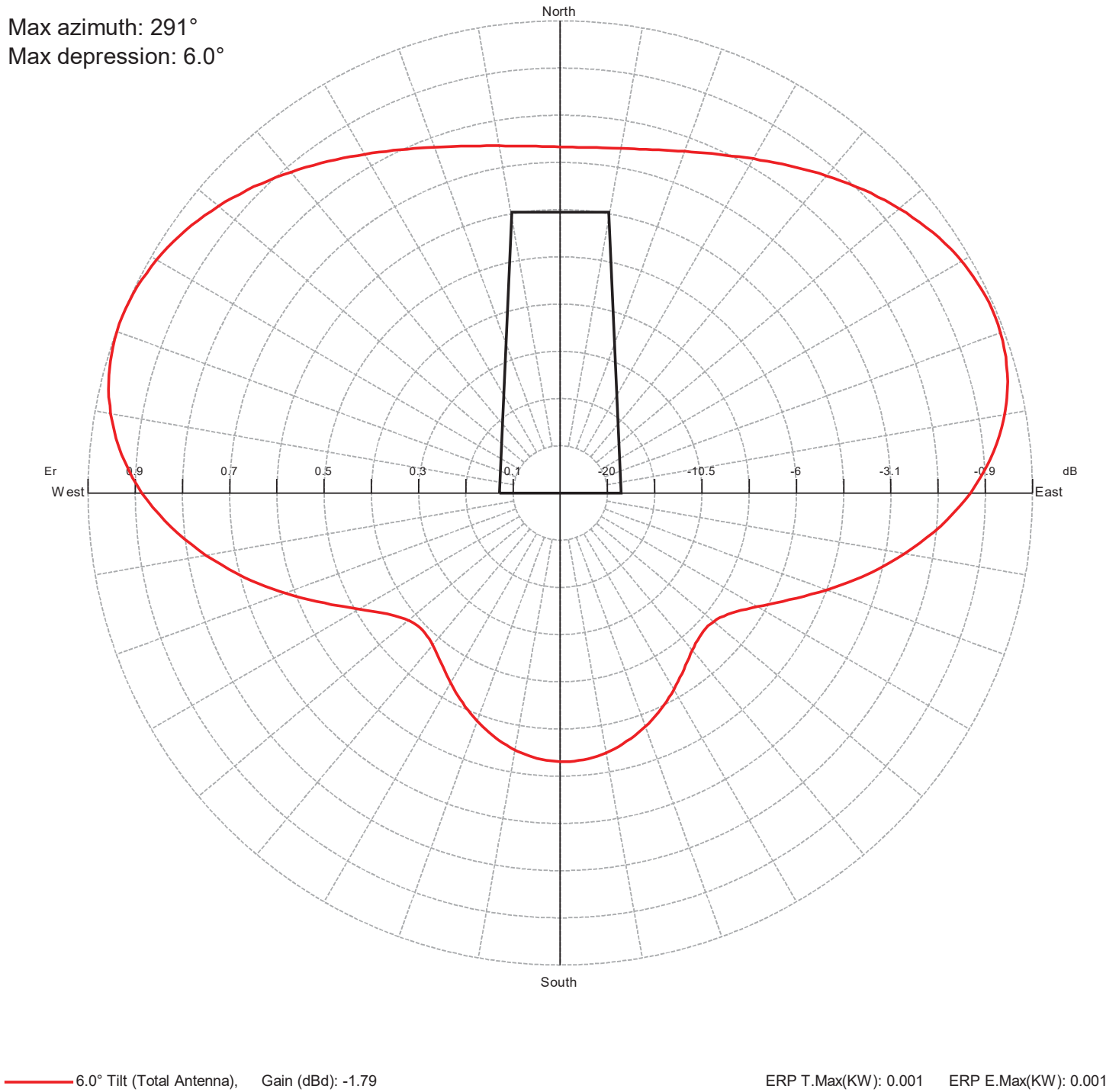
Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	-34.9	90	-33.5	180	-36.9	270	-33.3
10	-34.9	100	-34.8	190	-37.2	280	-32.5
20	-34.5	110	-36.6	200	-37.8	290	-32.3
30	-34.0	120	-38.5	210	-38.7	300	-32.4
40	-33.4	130	-39.6	220	-39.6	310	-32.7
50	-32.8	140	-39.3	230	-39.7	320	-33.3
60	-32.4	150	-38.4	240	-38.3	330	-33.9
70	-32.3	160	-37.6	250	-36.3	340	-34.4
80	-32.7	170	-37.0	260	-34.6	350	-34.8

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	-34.9	90	-33.5	180	-36.9	270	-33.3
10	-34.9	100	-34.8	190	-37.2	280	-32.5
20	-34.5	110	-36.6	200	-37.8	290	-32.3
30	-34.0	120	-38.5	210	-38.7	300	-32.4
40	-33.4	130	-39.6	220	-39.6	310	-32.7
50	-32.8	140	-39.3	230	-39.7	320	-33.3
60	-32.4	150	-38.4	240	-38.3	330	-33.9
70	-32.3	160	-37.6	250	-36.3	340	-34.4
80	-32.7	170	-37.0	260	-34.6	350	-34.8

Horizontal diagram of Maxima

Max azimuth: 291°
Max depression: 6.0°



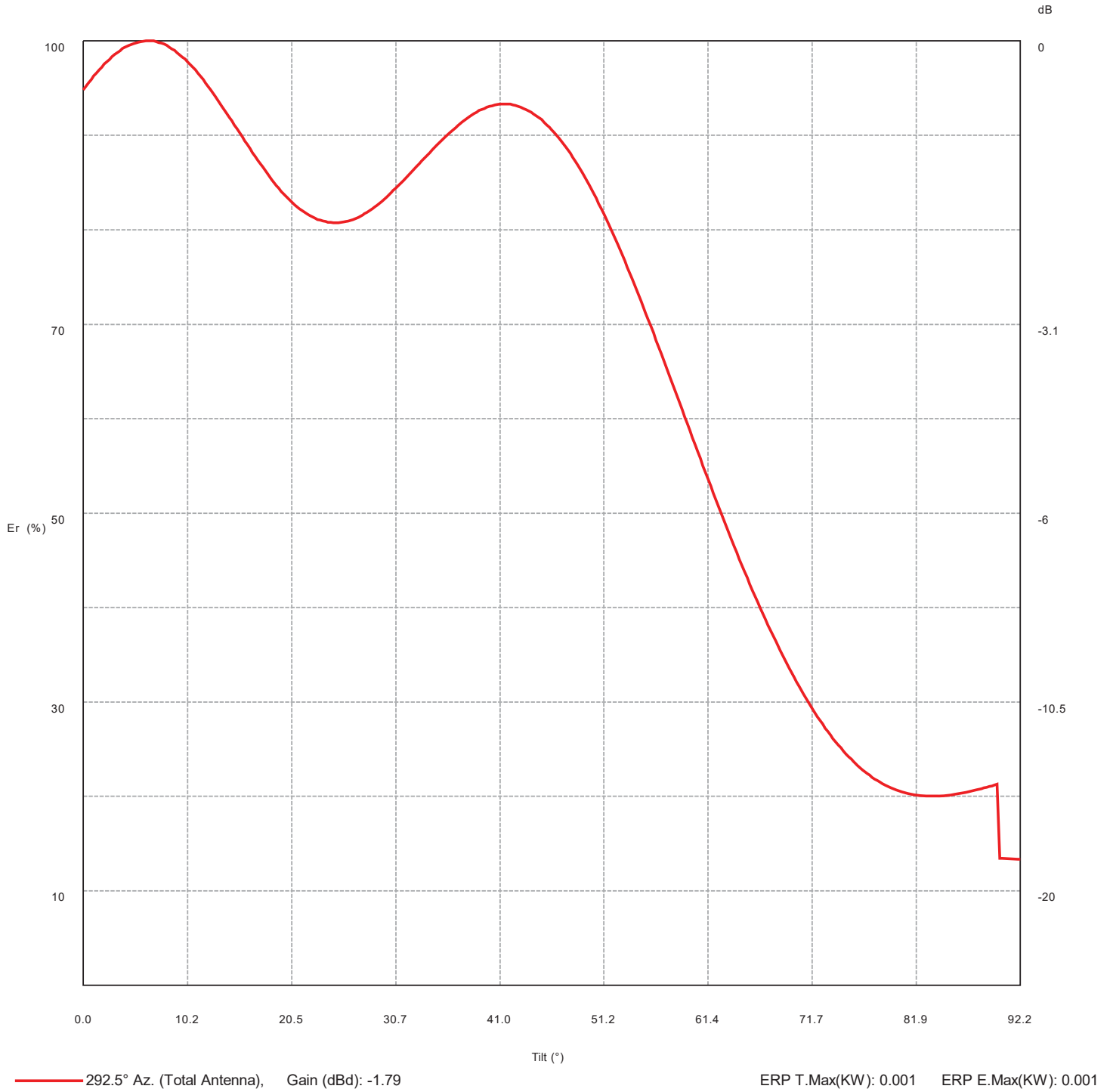
Horizontal diagram of Maxima

Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)
0.0	6.0	73.3	0.4	60.0	6.0	98.2	0.6	120.0	7.0	48.2	0.2
1.0	6.0	73.3	0.4	61.0	6.0	98.4	0.6	121.0	7.0	47.3	0.1
2.0	6.0	73.3	0.4	62.0	6.0	98.6	0.6	122.0	7.0	46.4	0.1
3.0	6.0	73.3	0.4	63.0	6.0	98.9	0.6	123.0	7.0	45.7	0.1
4.0	6.0	73.4	0.4	64.0	6.0	99.1	0.7	124.0	7.0	45.0	0.1
5.0	6.0	73.5	0.4	65.0	6.0	99.2	0.7	125.0	7.0	44.3	0.1
6.0	6.0	73.5	0.4	66.0	6.0	99.3	0.7	126.0	7.0	43.8	0.1
7.0	6.0	73.6	0.4	67.0	6.0	99.3	0.7	127.0	7.0	43.3	0.1
8.0	6.0	73.8	0.4	68.0	6.0	99.3	0.7	128.0	7.0	42.9	0.1
9.0	6.0	73.9	0.4	69.0	6.0	99.3	0.7	129.0	7.0	42.6	0.1
10.0	6.0	74.1	0.4	70.0	6.0	99.2	0.7	130.0	7.0	42.4	0.1
11.0	6.0	74.3	0.4	71.0	6.0	99.1	0.7	131.0	7.0	42.2	0.1
12.0	6.0	74.5	0.4	72.0	6.0	98.9	0.6	132.0	7.0	42.1	0.1
13.0	6.0	74.7	0.4	73.0	6.0	98.6	0.6	133.0	7.0	42.1	0.1
14.0	6.0	75.0	0.4	74.0	6.0	98.3	0.6	134.0	7.0	42.2	0.1
15.0	6.0	75.2	0.4	75.0	6.0	97.9	0.6	135.0	8.0	42.2	0.1
16.0	6.0	75.6	0.4	76.0	6.0	97.6	0.6	136.0	8.0	42.4	0.1
17.0	6.0	75.9	0.4	77.0	6.0	97.2	0.6	137.0	8.0	42.6	0.1
18.0	6.0	76.2	0.4	78.0	6.0	96.7	0.6	138.0	8.0	42.9	0.1
19.0	6.0	76.6	0.4	79.0	6.0	96.2	0.6	139.0	8.0	43.2	0.1
20.0	6.0	77.0	0.4	80.0	6.0	95.5	0.6	140.0	8.0	43.5	0.1
21.0	6.0	77.4	0.4	81.0	6.0	94.8	0.6	141.0	8.0	43.9	0.1
22.0	6.0	77.8	0.4	82.0	6.0	94.2	0.6	142.0	8.0	44.3	0.1
23.0	6.0	78.3	0.4	83.0	6.0	93.4	0.6	143.0	8.0	44.7	0.1
24.0	6.0	78.7	0.4	84.0	6.0	92.7	0.6	144.0	8.0	45.2	0.1
25.0	6.0	79.2	0.4	85.0	6.0	91.8	0.6	145.0	8.0	45.6	0.1
26.0	6.0	79.6	0.4	86.0	6.0	90.9	0.5	146.0	8.0	46.1	0.1
27.0	6.0	80.1	0.4	87.0	6.0	89.9	0.5	147.0	8.0	46.6	0.1
28.0	6.0	80.6	0.4	88.0	6.0	88.9	0.5	148.0	9.0	47.1	0.1
29.0	6.0	81.2	0.4	89.0	6.0	87.9	0.5	149.0	9.0	47.6	0.1
30.0	6.0	81.8	0.4	90.0	6.0	86.9	0.5	150.0	9.0	48.1	0.2
31.0	6.0	82.2	0.4	91.0	6.0	85.7	0.5	151.0	9.0	48.6	0.2
32.0	6.0	82.8	0.5	92.0	6.0	84.5	0.5	152.0	9.0	49.0	0.2
33.0	6.0	83.4	0.5	93.0	6.0	83.3	0.5	153.0	9.0	49.6	0.2
34.0	6.0	84.0	0.5	94.0	6.0	82.1	0.4	154.0	10.0	50.0	0.2
35.0	6.0	84.6	0.5	95.0	6.0	80.8	0.4	155.0	10.0	50.5	0.2
36.0	6.0	85.2	0.5	96.0	6.0	79.5	0.4	156.0	10.0	50.9	0.2
37.0	6.0	85.8	0.5	97.0	6.0	78.2	0.4	157.0	10.0	51.4	0.2
38.0	6.0	86.4	0.5	98.0	6.0	76.8	0.4	158.0	11.0	51.8	0.2
39.0	6.0	87.1	0.5	99.0	6.0	75.4	0.4	159.0	11.0	52.3	0.2
40.0	6.0	87.7	0.5	100.0	6.0	74.0	0.4	160.0	11.0	52.7	0.2
41.0	6.0	88.3	0.5	101.0	6.0	72.6	0.3	161.0	12.0	53.0	0.2
42.0	6.0	88.9	0.5	102.0	6.0	71.3	0.3	162.0	12.5	53.4	0.2
43.0	6.0	89.5	0.5	103.0	6.0	69.9	0.3	163.0	13.0	53.8	0.2
44.0	6.0	90.2	0.5	104.0	6.5	68.5	0.3	164.0	15.0	54.2	0.2
45.0	6.0	90.8	0.5	105.0	7.0	67.1	0.3	165.0	16.0	54.5	0.2
46.0	6.0	91.4	0.6	106.0	7.0	65.6	0.3	166.0	18.0	54.8	0.2
47.0	6.0	91.9	0.6	107.0	7.0	64.2	0.3	167.0	19.0	55.1	0.2
48.0	6.0	92.6	0.6	108.0	7.0	62.8	0.3	168.0	19.5	55.4	0.2
49.0	6.0	93.1	0.6	109.0	7.0	61.4	0.2	169.0	20.0	55.7	0.2
50.0	6.0	93.6	0.6	110.0	7.0	60.1	0.2	170.0	20.0	55.9	0.2
51.0	6.0	94.3	0.6	111.0	7.0	58.6	0.2	171.0	20.0	56.1	0.2
52.0	6.0	94.7	0.6	112.0	7.0	57.3	0.2	172.0	20.0	56.3	0.2
53.0	6.0	95.3	0.6	113.0	7.0	56.0	0.2	173.0	20.0	56.5	0.2
54.0	6.0	95.7	0.6	114.0	7.0	54.7	0.2	174.0	20.0	56.6	0.2
55.0	6.0	96.3	0.6	115.0	7.0	53.5	0.2	175.0	20.0	56.7	0.2
56.0	6.0	96.7	0.6	116.0	7.0	52.4	0.2	176.0	20.0	56.8	0.2
57.0	6.0	97.1	0.6	117.0	7.0	51.2	0.2	177.0	20.0	56.9	0.2
58.0	6.0	97.5	0.6	118.0	7.0	50.1	0.2	178.0	20.0	56.9	0.2
59.0	6.0	97.8	0.6	119.0	7.0	49.2	0.2	179.0	20.0	56.9	0.2

Horizontal diagram of Maxima

Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)
180.0	20.0	56.9	0.2	240.0	7.0	49.2	0.2	300.0	6.0	98.7	0.6
181.0	20.0	56.9	0.2	241.0	7.0	50.3	0.2	301.0	6.0	98.4	0.6
182.0	20.0	56.8	0.2	242.0	7.0	51.4	0.2	302.0	6.0	98.1	0.6
183.0	20.0	56.7	0.2	243.0	7.0	52.6	0.2	303.0	6.0	97.7	0.6
184.0	20.0	56.6	0.2	244.0	7.0	53.9	0.2	304.0	6.0	97.3	0.6
185.0	20.0	56.4	0.2	245.0	7.0	55.1	0.2	305.0	6.0	96.9	0.6
186.0	20.0	56.2	0.2	246.0	7.0	56.5	0.2	306.0	6.0	96.5	0.6
187.0	20.0	56.0	0.2	247.0	7.0	57.8	0.2	307.0	6.0	95.9	0.6
188.0	20.0	55.8	0.2	248.0	7.0	59.2	0.2	308.0	6.0	95.5	0.6
189.0	20.0	55.6	0.2	249.0	7.0	60.5	0.2	309.0	6.0	95.0	0.6
190.0	20.0	55.3	0.2	250.0	7.0	62.0	0.3	310.0	6.0	94.5	0.6
191.0	20.0	55.0	0.2	251.0	7.0	63.4	0.3	311.0	6.0	94.0	0.6
192.0	20.0	54.7	0.2	252.0	7.0	64.8	0.3	312.0	6.0	93.4	0.6
193.0	20.0	54.3	0.2	253.0	7.0	66.3	0.3	313.0	6.0	92.8	0.6
194.0	20.0	53.9	0.2	254.0	7.0	67.8	0.3	314.0	6.0	92.3	0.6
195.0	19.5	53.6	0.2	255.0	6.0	69.2	0.3	315.0	6.0	91.7	0.6
196.0	16.0	53.2	0.2	256.0	6.0	70.6	0.3	316.0	6.0	91.1	0.5
197.0	16.0	52.7	0.2	257.0	6.0	72.0	0.3	317.0	6.0	90.5	0.5
198.0	13.0	52.3	0.2	258.0	6.0	73.4	0.4	318.0	6.0	89.9	0.5
199.0	13.0	51.9	0.2	259.0	6.0	74.8	0.4	319.0	6.0	89.3	0.5
200.0	12.0	51.4	0.2	260.0	6.0	76.1	0.4	320.0	6.0	88.7	0.5
201.0	11.0	50.9	0.2	261.0	6.0	77.5	0.4	321.0	6.0	88.1	0.5
202.0	11.0	50.5	0.2	262.0	6.0	78.8	0.4	322.0	6.0	87.5	0.5
203.0	11.0	50.0	0.2	263.0	6.0	80.1	0.4	323.0	6.0	86.9	0.5
204.0	11.0	49.5	0.2	264.0	6.0	81.5	0.4	324.0	6.0	86.3	0.5
205.0	10.0	49.0	0.2	265.0	6.0	82.7	0.5	325.0	6.0	85.7	0.5
206.0	10.0	48.5	0.2	266.0	6.0	84.0	0.5	326.0	6.0	85.1	0.5
207.0	10.0	48.0	0.2	267.0	6.0	85.2	0.5	327.0	6.0	84.5	0.5
208.0	10.0	47.5	0.1	268.0	6.0	86.4	0.5	328.0	6.0	83.9	0.5
209.0	9.0	47.0	0.1	269.0	6.0	87.5	0.5	329.0	6.0	83.4	0.5
210.0	9.0	46.5	0.1	270.0	6.0	88.6	0.5	330.0	6.0	82.8	0.5
211.0	9.0	45.9	0.1	271.0	6.0	89.6	0.5	331.0	6.0	82.3	0.4
212.0	9.0	45.4	0.1	272.0	6.0	90.6	0.5	332.0	6.0	81.8	0.4
213.0	9.0	44.9	0.1	273.0	6.0	91.5	0.6	333.0	6.0	81.2	0.4
214.0	9.0	44.4	0.1	274.0	6.0	92.4	0.6	334.0	6.0	80.7	0.4
215.0	8.0	43.9	0.1	275.0	6.0	93.2	0.6	335.0	6.0	80.2	0.4
216.0	8.0	43.5	0.1	276.0	6.0	94.0	0.6	336.0	6.0	79.7	0.4
217.0	8.0	43.1	0.1	277.0	6.0	94.7	0.6	337.0	6.0	79.3	0.4
218.0	8.0	42.7	0.1	278.0	6.0	95.4	0.6	338.0	6.0	78.8	0.4
219.0	8.0	42.4	0.1	279.0	6.0	96.1	0.6	339.0	6.0	78.3	0.4
220.0	8.0	42.0	0.1	280.0	6.0	96.7	0.6	340.0	6.0	77.9	0.4
221.0	8.0	41.8	0.1	281.0	6.0	97.2	0.6	341.0	6.0	77.5	0.4
222.0	8.0	41.5	0.1	282.0	6.0	97.7	0.6	342.0	6.0	77.1	0.4
223.0	8.0	41.4	0.1	283.0	6.0	98.2	0.6	343.0	6.0	76.7	0.4
224.0	8.0	41.2	0.1	284.0	6.0	98.5	0.6	344.0	6.0	76.4	0.4
225.0	8.0	41.2	0.1	285.0	6.0	98.9	0.6	345.0	6.0	76.0	0.4
226.0	8.0	41.2	0.1	286.0	6.0	99.2	0.7	346.0	6.0	75.7	0.4
227.0	7.0	41.3	0.1	287.0	6.0	99.4	0.7	347.0	6.0	75.4	0.4
228.0	7.0	41.5	0.1	288.0	6.0	99.7	0.7	348.0	6.0	75.2	0.4
229.0	7.0	41.7	0.1	289.0	6.0	99.8	0.7	349.0	6.0	74.9	0.4
230.0	7.0	42.0	0.1	290.0	6.0	99.9	0.7	350.0	6.0	74.6	0.4
231.0	7.0	42.4	0.1	291.0	6.0	100.0	0.7	351.0	6.0	74.4	0.4
232.0	7.0	42.8	0.1	292.0	6.0	100.0	0.7	352.0	6.0	74.2	0.4
233.0	7.0	43.4	0.1	293.0	6.0	100.0	0.7	353.0	6.0	74.0	0.4
234.0	7.0	44.0	0.1	294.0	6.0	99.9	0.7	354.0	6.0	73.9	0.4
235.0	7.0	44.7	0.1	295.0	6.0	99.8	0.7	355.0	6.0	73.7	0.4
236.0	7.0	45.4	0.1	296.0	6.0	99.7	0.7	356.0	6.0	73.6	0.4
237.0	7.0	46.3	0.1	297.0	6.0	99.4	0.7	357.0	6.0	73.5	0.4
238.0	7.0	47.2	0.1	298.0	6.0	99.2	0.7	358.0	6.0	73.4	0.4
239.0	7.0	48.2	0.2	299.0	6.0	99.0	0.6	359.0	6.0	73.4	0.4

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	94.8	0.6	15.4	90.3	0.5	30.7	84.4	0.5
0.3	95.2	0.6	15.6	89.9	0.5	31.0	84.7	0.5
0.5	95.6	0.6	15.9	89.4	0.5	31.2	85.0	0.5
0.8	95.9	0.6	16.1	89.0	0.5	31.5	85.2	0.5
1.0	96.3	0.6	16.4	88.6	0.5	31.7	85.5	0.5
1.3	96.6	0.6	16.6	88.2	0.5	32.0	85.8	0.5
1.5	96.9	0.6	16.9	87.8	0.5	32.3	86.1	0.5
1.8	97.2	0.6	17.2	87.4	0.5	32.5	86.4	0.5
2.0	97.5	0.6	17.4	87.0	0.5	32.8	86.7	0.5
2.3	97.8	0.6	17.7	86.6	0.5	33.0	87.0	0.5
2.6	98.1	0.6	17.9	86.2	0.5	33.3	87.3	0.5
2.8	98.3	0.6	18.2	85.8	0.5	33.5	87.6	0.5
3.1	98.6	0.6	18.4	85.5	0.5	33.8	87.9	0.5
3.3	98.8	0.6	18.7	85.1	0.5	34.0	88.2	0.5
3.6	99.0	0.6	18.9	84.7	0.5	34.3	88.4	0.5
3.8	99.2	0.7	19.2	84.4	0.5	34.6	88.7	0.5
4.1	99.4	0.7	19.5	84.1	0.5	34.8	89.0	0.5
4.4	99.5	0.7	19.7	83.8	0.5	35.1	89.3	0.5
4.6	99.6	0.7	20.0	83.5	0.5	35.3	89.6	0.5
4.9	99.7	0.7	20.2	83.2	0.5	35.6	89.8	0.5
5.1	99.8	0.7	20.5	83.0	0.5	35.8	90.1	0.5
5.4	99.9	0.7	20.7	82.7	0.5	36.1	90.4	0.5
5.6	99.9	0.7	21.0	82.4	0.4	36.4	90.6	0.5
5.9	100.0	0.7	21.2	82.2	0.4	36.6	90.8	0.5
6.1	100.0	0.7	21.5	82.0	0.4	36.9	91.1	0.5
6.4	100.0	0.7	21.8	81.8	0.4	37.1	91.3	0.6
6.7	100.0	0.7	22.0	81.6	0.4	37.4	91.5	0.6
6.9	100.0	0.7	22.3	81.5	0.4	37.6	91.7	0.6
7.2	99.9	0.7	22.5	81.4	0.4	37.9	92.0	0.6
7.4	99.9	0.7	22.8	81.2	0.4	38.1	92.1	0.6
7.7	99.8	0.7	23.0	81.1	0.4	38.4	92.3	0.6
7.9	99.7	0.7	23.3	81.0	0.4	38.7	92.5	0.6
8.2	99.5	0.7	23.6	80.9	0.4	38.9	92.6	0.6
8.4	99.3	0.7	23.8	80.9	0.4	39.2	92.8	0.6
8.7	99.2	0.7	24.1	80.8	0.4	39.4	92.9	0.6
9.0	99.0	0.6	24.3	80.8	0.4	39.7	93.0	0.6
9.2	98.8	0.6	24.6	80.8	0.4	39.9	93.1	0.6
9.5	98.5	0.6	24.8	80.7	0.4	40.2	93.2	0.6
9.7	98.3	0.6	25.1	80.7	0.4	40.4	93.2	0.6
10.0	98.1	0.6	25.3	80.8	0.4	40.7	93.3	0.6
10.2	97.8	0.6	25.6	80.8	0.4	41.0	93.3	0.6
10.5	97.5	0.6	25.9	80.9	0.4	41.2	93.3	0.6
10.8	97.2	0.6	26.1	81.0	0.4	41.5	93.3	0.6
11.0	96.9	0.6	26.4	81.0	0.4	41.7	93.3	0.6
11.3	96.6	0.6	26.6	81.1	0.4	42.0	93.3	0.6
11.5	96.2	0.6	26.9	81.2	0.4	42.2	93.2	0.6
11.8	95.9	0.6	27.1	81.4	0.4	42.5	93.2	0.6
12.0	95.6	0.6	27.4	81.5	0.4	42.8	93.1	0.6
12.3	95.2	0.6	27.6	81.7	0.4	43.0	93.0	0.6
12.5	94.8	0.6	27.9	81.9	0.4	43.3	92.9	0.6
12.8	94.4	0.6	28.2	82.1	0.4	43.5	92.7	0.6
13.1	94.0	0.6	28.4	82.3	0.4	43.8	92.6	0.6
13.3	93.6	0.6	28.7	82.5	0.5	44.0	92.4	0.6
13.6	93.2	0.6	28.9	82.6	0.5	44.3	92.3	0.6
13.8	92.8	0.6	29.2	82.9	0.5	44.5	92.1	0.6
14.1	92.3	0.6	29.4	83.1	0.5	44.8	91.9	0.6
14.3	91.9	0.6	29.7	83.4	0.5	45.1	91.7	0.6
14.6	91.5	0.6	30.0	83.6	0.5	45.3	91.4	0.6
14.8	91.1	0.5	30.2	83.9	0.5	45.6	91.1	0.5
15.1	90.7	0.5	30.5	84.2	0.5	45.8	90.9	0.5

Vertical diagram at an azimuth of 292.5°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
46.1	90.6	0.5	61.4	53.6	0.2	76.8	22.6	0.0
46.3	90.3	0.5	61.7	52.9	0.2	77.1	22.4	0.0
46.6	89.9	0.5	62.0	52.1	0.2	77.3	22.2	0.0
46.8	89.6	0.5	62.2	51.4	0.2	77.6	22.0	0.0
47.1	89.3	0.5	62.5	50.7	0.2	77.8	21.8	0.0
47.4	88.9	0.5	62.7	50.0	0.2	78.1	21.7	0.0
47.6	88.5	0.5	63.0	49.3	0.2	78.3	21.5	0.0
47.9	88.1	0.5	63.2	48.6	0.2	78.6	21.4	0.0
48.1	87.7	0.5	63.5	47.9	0.2	78.8	21.2	0.0
48.4	87.2	0.5	63.7	47.2	0.1	79.1	21.1	0.0
48.6	86.8	0.5	64.0	46.5	0.1	79.4	20.9	0.0
48.9	86.4	0.5	64.3	45.8	0.1	79.6	20.8	0.0
49.2	85.9	0.5	64.5	45.1	0.1	79.9	20.7	0.0
49.4	85.4	0.5	64.8	44.5	0.1	80.1	20.6	0.0
49.7	84.9	0.5	65.0	43.8	0.1	80.4	20.5	0.0
49.9	84.4	0.5	65.3	43.1	0.1	80.6	20.4	0.0
50.2	83.9	0.5	65.5	42.5	0.1	80.9	20.3	0.0
50.4	83.3	0.5	65.8	41.8	0.1	81.2	20.3	0.0
50.7	82.8	0.5	66.0	41.2	0.1	81.4	20.2	0.0
50.9	82.2	0.4	66.3	40.6	0.1	81.7	20.2	0.0
51.2	81.7	0.4	66.6	40.0	0.1	81.9	20.1	0.0
51.5	81.1	0.4	66.8	39.3	0.1	82.2	20.1	0.0
51.7	80.5	0.4	67.1	38.7	0.1	82.4	20.1	0.0
52.0	79.9	0.4	67.3	38.1	0.1	82.7	20.1	0.0
52.2	79.3	0.4	67.6	37.6	0.1	82.9	20.0	0.0
52.5	78.6	0.4	67.8	37.0	0.1	83.2	20.0	0.0
52.7	78.0	0.4	68.1	36.4	0.1	83.5	20.0	0.0
53.0	77.4	0.4	68.4	35.8	0.1	83.7	20.0	0.0
53.2	76.7	0.4	68.6	35.3	0.1	84.0	20.0	0.0
53.5	76.0	0.4	68.9	34.7	0.1	84.2	20.0	0.0
53.8	75.4	0.4	69.1	34.2	0.1	84.5	20.1	0.0
54.0	74.7	0.4	69.4	33.7	0.1	84.7	20.1	0.0
54.3	74.0	0.4	69.6	33.1	0.1	85.0	20.1	0.0
54.5	73.3	0.4	69.9	32.6	0.1	85.2	20.1	0.0
54.8	72.6	0.3	70.1	32.1	0.1	85.5	20.2	0.0
55.0	71.9	0.3	70.4	31.6	0.1	85.8	20.2	0.0
55.3	71.2	0.3	70.7	31.1	0.1	86.0	20.3	0.0
55.6	70.5	0.3	70.9	30.6	0.1	86.3	20.3	0.0
55.8	69.8	0.3	71.2	30.2	0.1	86.5	20.4	0.0
56.1	69.1	0.3	71.4	29.7	0.1	86.8	20.4	0.0
56.3	68.3	0.3	71.7	29.3	0.1	87.0	20.5	0.0
56.6	67.6	0.3	71.9	28.9	0.1	87.3	20.5	0.0
56.8	66.9	0.3	72.2	28.4	0.1	87.6	20.6	0.0
57.1	66.1	0.3	72.4	28.0	0.1	87.8	20.7	0.0
57.3	65.4	0.3	72.7	27.6	0.1	88.1	20.7	0.0
57.6	64.7	0.3	73.0	27.2	0.0	88.3	20.8	0.0
57.9	63.9	0.3	73.2	26.9	0.0	88.6	20.9	0.0
58.1	63.2	0.3	73.5	26.5	0.0	88.8	21.0	0.0
58.4	62.5	0.3	73.7	26.1	0.0	89.1	21.0	0.0
58.6	61.7	0.3	74.0	25.8	0.0	89.3	21.1	0.0
58.9	61.0	0.2	74.2	25.4	0.0	89.6	21.2	0.0
59.1	60.2	0.2	74.5	25.1	0.0	89.9	21.3	0.0
59.4	59.5	0.2	74.8	24.8	0.0	90.1	13.4	0.0
59.6	58.8	0.2	75.0	24.5	0.0	90.4	13.4	0.0
59.9	58.0	0.2	75.3	24.2	0.0	90.6	13.4	0.0
60.2	57.3	0.2	75.5	23.9	0.0	90.9	13.4	0.0
60.4	56.5	0.2	75.8	23.6	0.0	91.1	13.4	0.0
60.7	55.8	0.2	76.0	23.4	0.0	91.4	13.4	0.0
60.9	55.0	0.2	76.3	23.1	0.0	91.6	13.4	0.0
61.2	54.3	0.2	76.5	22.9	0.0	91.9	13.3	0.0