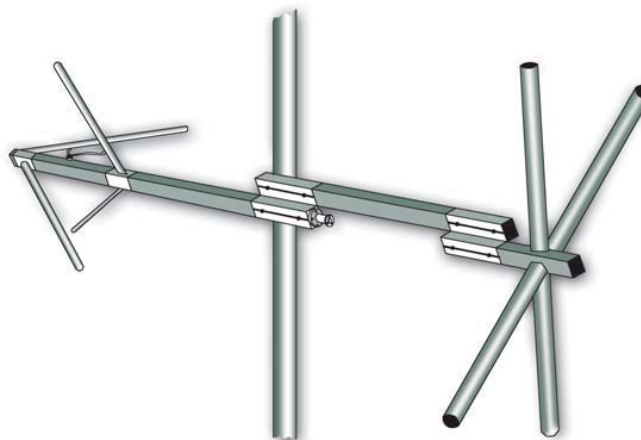


11 Bay TFC2K-D 98.1MHz

Novemebr 2105



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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

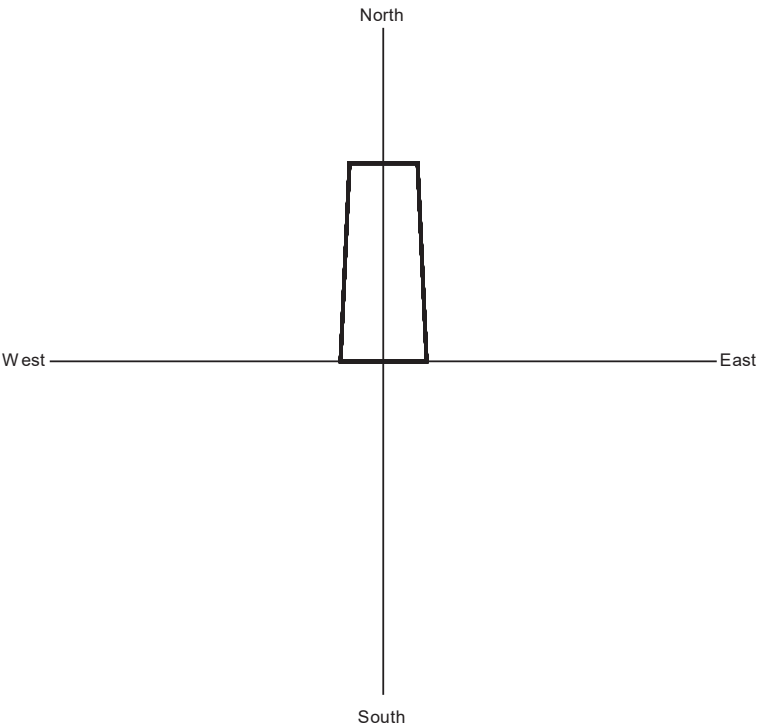
Information about antennas used in the System

	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

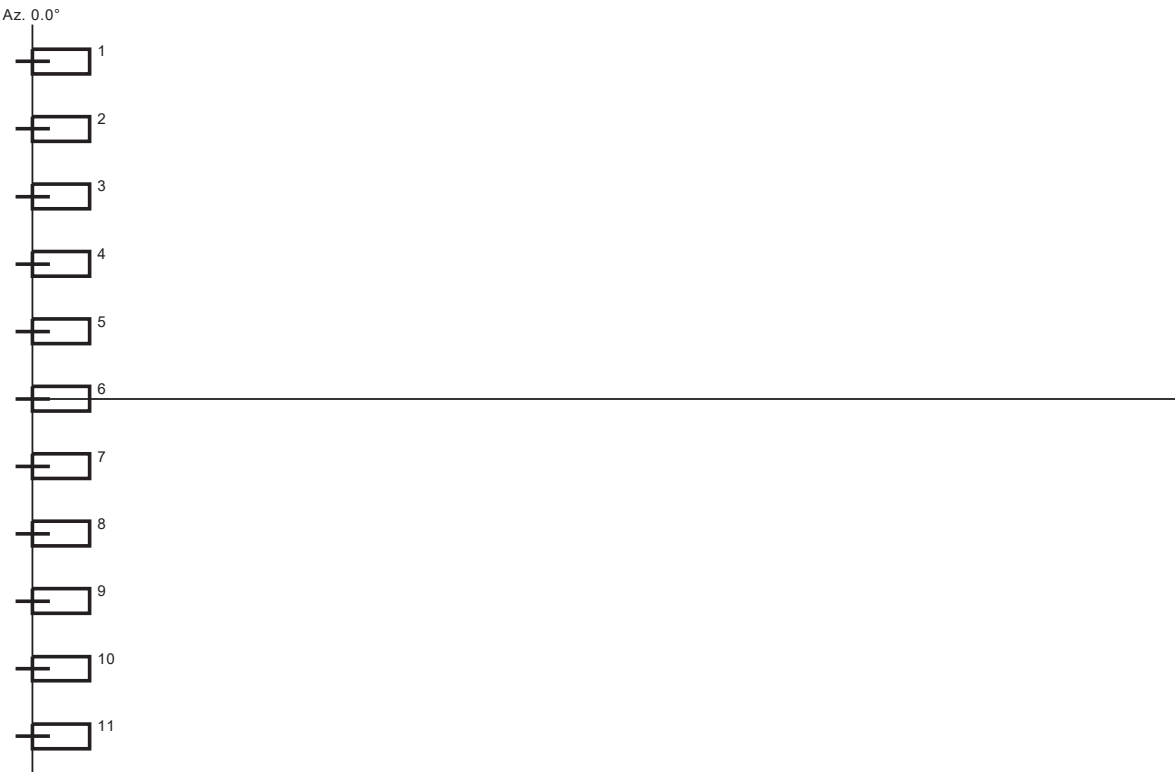
Geometrical and electrical data of antenna System

	<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	9.091	0	0	0 +0.0	13.00	0.0	0.0	1	1	0.0	0.0
2	9.091	0	0	0 +0.0	10.40	0.0	0.0	1	1	0.0	0.0
3	9.091	0	0	0 +0.0	7.80	0.0	0.0	1	1	0.0	0.0
4	9.091	0	0	0 +0.0	5.20	0.0	0.0	1	1	0.0	0.0
5	9.091	0	0	0 +0.0	2.60	0.0	0.0	1	1	0.0	0.0
6	9.091	0	0	0 +0.0	0.00	0.0	0.0	1	1	0.0	0.0
7	9.091	0	0	0 +0.0	-2.60	0.0	0.0	1	1	0.0	0.0
8	9.091	0	0	0 +0.0	-5.20	0.0	0.0	1	1	0.0	0.0
9	9.091	0	0	0 +0.0	-7.80	0.0	0.0	1	1	0.0	0.0
10	9.091	0	0	0 +0.0	-10.40	0.0	0.0	1	1	0.0	0.0
11	9.091	0	0	0 +0.0	-13.00	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	11
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)	8.72
G. Distribution losses (dB)	0.00
H. Nominal max gain F - G (dBd)	8.72
I. Compensation losses (dB)	0.55
J. Effec. max gain H - I (dBd)	8.17
K. Effec. max gain (times)	6.57
L. Effec. max power E * K (KW)	0.0066
M. Max power depr. angle (°)	0.2
N. Max power az. angle (°)	291

Diagram in dBK calculated at horizon

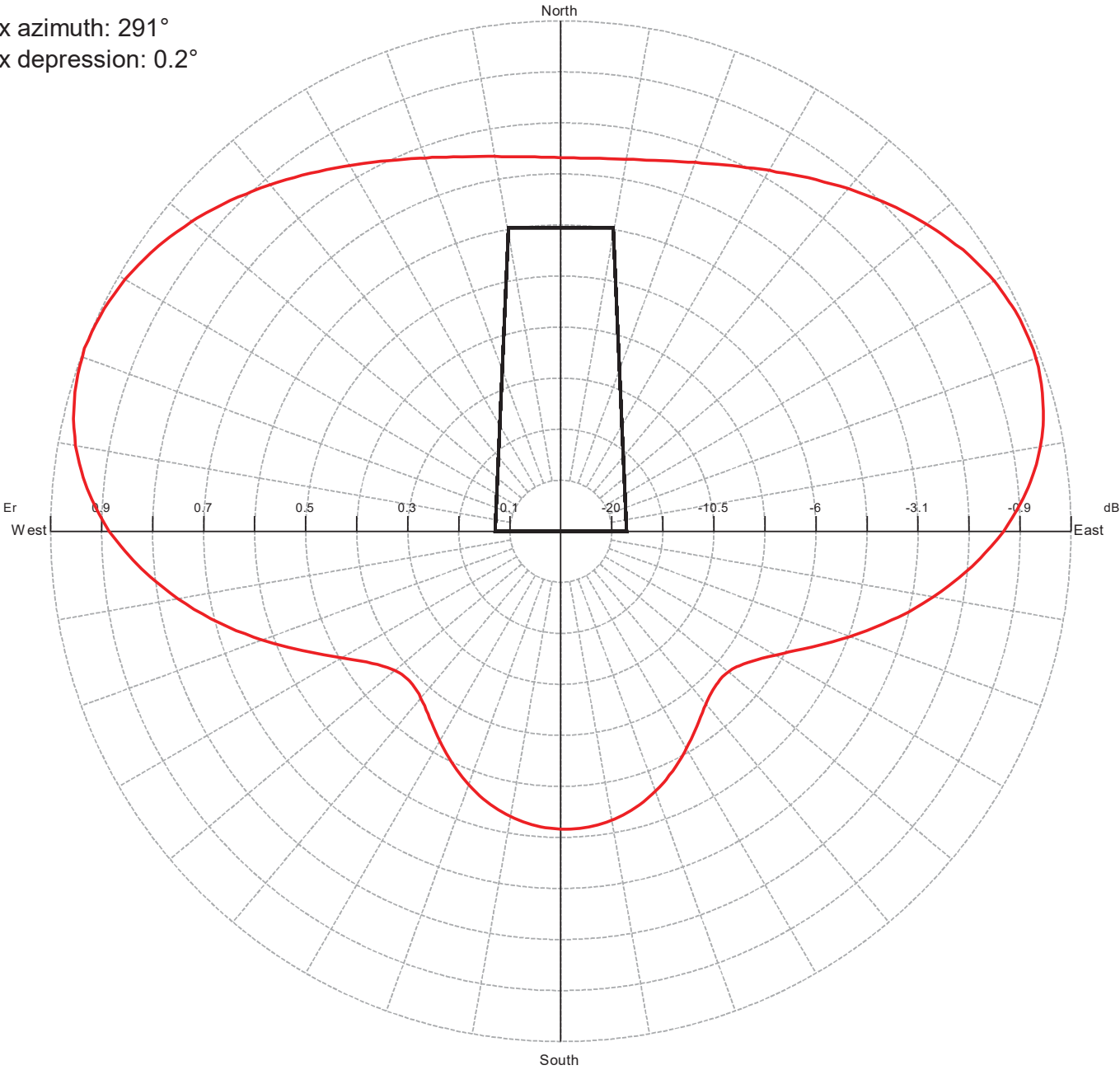
Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	-24.5	90	-23.1	180	-26.5	270	-22.9
10	-24.4	100	-24.4	190	-26.7	280	-22.1
20	-24.1	110	-26.2	200	-27.4	290	-21.8
30	-23.6	120	-28.1	210	-28.3	300	-21.9
40	-23.0	130	-29.2	220	-29.2	310	-22.3
50	-22.4	140	-28.9	230	-29.3	320	-22.9
60	-22.0	150	-28.0	240	-27.9	330	-23.5
70	-21.9	160	-27.1	250	-25.9	340	-24.0
80	-22.2	170	-26.6	260	-24.2	350	-24.4

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	-24.5	90	-23.1	180	-26.5	270	-22.9
10	-24.4	100	-24.4	190	-26.7	280	-22.1
20	-24.1	110	-26.2	200	-27.4	290	-21.8
30	-23.6	120	-28.1	210	-28.3	300	-21.9
40	-23.0	130	-29.2	220	-29.2	310	-22.3
50	-22.4	140	-28.9	230	-29.3	320	-22.9
60	-22.0	150	-28.0	240	-27.9	330	-23.5
70	-21.9	160	-27.1	250	-25.9	340	-24.0
80	-22.2	170	-26.6	260	-24.2	350	-24.4

Horizontal diagram of Maxima

Max azimuth: 291°
Max depression: 0.2°



0.2° Tilt (Total Antenna), Gain (dBd): 8.17

ERP T.Max(KW): 0.007 ERP E.Max(KW): 0.007

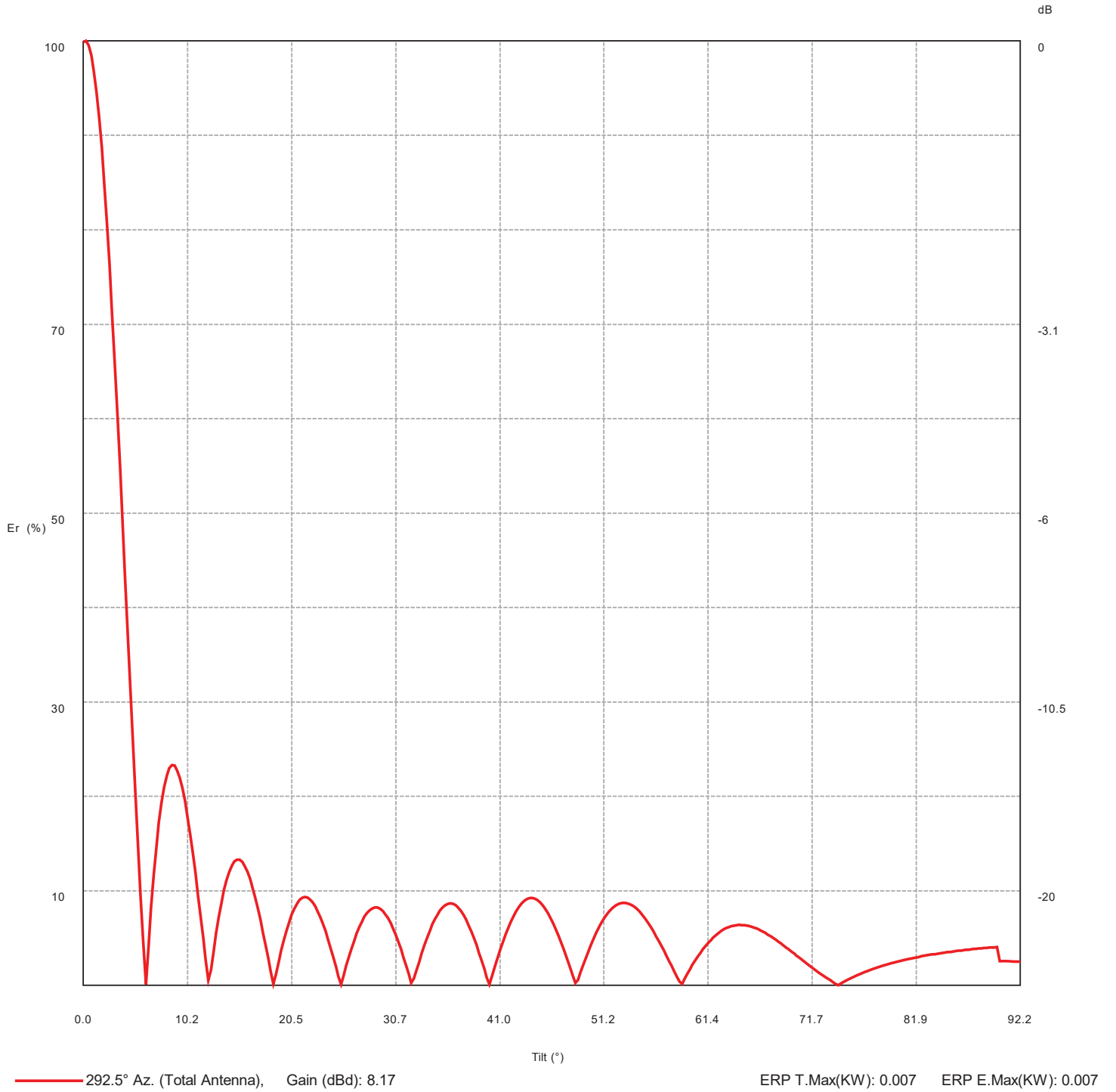
Horizontal diagram of Maxima

Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)
0.0	0.0	73.2	3.5	60.0	0.0	98.0	6.3	120.0	0.0	48.6	1.5
1.0	0.0	73.2	3.5	61.0	0.0	98.3	6.3	121.0	0.0	47.7	1.5
2.0	0.0	73.2	3.5	62.0	0.0	98.5	6.4	122.0	0.0	46.8	1.4
3.0	0.0	73.2	3.5	63.0	0.0	98.7	6.4	123.0	0.0	46.1	1.4
4.0	0.0	73.3	3.5	64.0	0.0	99.0	6.4	124.0	0.0	45.4	1.4
5.0	0.0	73.4	3.5	65.0	0.0	99.1	6.4	125.0	0.0	44.8	1.3
6.0	0.0	73.4	3.5	66.0	0.0	99.2	6.5	126.0	0.0	44.3	1.3
7.0	0.0	73.5	3.6	67.0	0.0	99.2	6.5	127.0	0.0	43.8	1.3
8.0	0.0	73.7	3.6	68.0	0.0	99.2	6.5	128.0	0.0	43.4	1.2
9.0	0.0	73.8	3.6	69.0	0.0	99.2	6.5	129.0	0.0	43.1	1.2
10.0	0.0	74.0	3.6	70.0	0.0	99.1	6.4	130.0	0.0	42.9	1.2
11.0	0.0	74.2	3.6	71.0	0.0	99.0	6.4	131.0	0.0	42.7	1.2
12.0	0.0	74.4	3.6	72.0	0.0	98.7	6.4	132.0	0.0	42.6	1.2
13.0	0.0	74.6	3.7	73.0	0.0	98.5	6.4	133.0	0.0	42.6	1.2
14.0	0.0	74.9	3.7	74.0	0.0	98.2	6.3	134.0	0.0	42.7	1.2
15.0	0.0	75.2	3.7	75.0	0.0	97.8	6.3	135.0	0.0	42.8	1.2
16.0	0.0	75.5	3.7	76.0	0.0	97.5	6.2	136.0	0.0	43.0	1.2
17.0	0.0	75.8	3.8	77.0	0.0	97.0	6.2	137.0	0.0	43.3	1.2
18.0	0.0	76.1	3.8	78.0	0.0	96.6	6.1	138.0	0.0	43.5	1.2
19.0	0.0	76.5	3.8	79.0	0.0	96.0	6.1	139.0	0.0	43.9	1.3
20.0	0.0	76.9	3.9	80.0	0.0	95.4	6.0	140.0	0.0	44.2	1.3
21.0	0.0	77.3	3.9	81.0	0.0	94.7	5.9	141.0	0.0	44.6	1.3
22.0	0.0	77.7	4.0	82.0	0.0	94.1	5.8	142.0	0.0	45.1	1.3
23.0	0.0	78.2	4.0	83.0	0.0	93.3	5.7	143.0	0.0	45.5	1.4
24.0	0.0	78.6	4.1	84.0	0.0	92.6	5.6	144.0	0.0	46.0	1.4
25.0	0.0	79.1	4.1	85.0	0.0	91.7	5.5	145.0	0.0	46.5	1.4
26.0	0.0	79.5	4.2	86.0	0.0	90.8	5.4	146.0	0.0	47.1	1.5
27.0	0.0	80.0	4.2	87.0	0.0	89.8	5.3	147.0	0.0	47.6	1.5
28.0	0.0	80.5	4.3	88.0	0.0	88.8	5.2	148.0	0.0	48.1	1.5
29.0	0.0	81.1	4.3	89.0	0.0	87.8	5.1	149.0	0.0	48.6	1.6
30.0	0.0	81.6	4.4	90.0	0.0	86.8	4.9	150.0	0.0	49.2	1.6
31.0	0.0	82.1	4.4	91.0	0.0	85.6	4.8	151.0	0.0	49.8	1.6
32.0	0.0	82.7	4.5	92.0	0.0	84.4	4.7	152.0	0.0	50.3	1.7
33.0	0.0	83.3	4.6	93.0	0.0	83.2	4.6	153.0	0.0	50.8	1.7
34.0	0.0	83.9	4.6	94.0	0.0	82.0	4.4	154.0	0.0	51.3	1.7
35.0	0.0	84.5	4.7	95.0	0.0	80.8	4.3	155.0	0.0	51.9	1.8
36.0	0.0	85.1	4.8	96.0	0.0	79.5	4.1	156.0	0.0	52.3	1.8
37.0	0.0	85.7	4.8	97.0	0.0	78.1	4.0	157.0	0.0	52.9	1.8
38.0	0.0	86.3	4.9	98.0	0.0	76.8	3.9	158.0	0.0	53.3	1.9
39.0	0.0	87.0	5.0	99.0	0.0	75.4	3.7	159.0	0.0	53.8	1.9
40.0	0.0	87.6	5.0	100.0	0.0	74.1	3.6	160.0	0.0	54.2	1.9
41.0	0.0	88.2	5.1	101.0	0.0	72.7	3.5	161.0	0.0	54.6	2.0
42.0	0.0	88.8	5.2	102.0	0.0	71.4	3.3	162.0	0.0	55.0	2.0
43.0	0.0	89.4	5.3	103.0	0.0	70.1	3.2	163.0	0.0	55.5	2.0
44.0	0.0	90.0	5.3	104.0	0.0	68.7	3.1	164.0	0.0	55.8	2.0
45.0	0.0	90.7	5.4	105.0	0.0	67.2	3.0	165.0	0.0	56.1	2.1
46.0	0.0	91.3	5.5	106.0	0.0	65.8	2.8	166.0	0.0	56.5	2.1
47.0	0.0	91.8	5.5	107.0	0.0	64.4	2.7	167.0	0.0	56.8	2.1
48.0	0.0	92.5	5.6	108.0	0.0	63.0	2.6	168.0	0.0	57.0	2.1
49.0	0.0	93.0	5.7	109.0	0.0	61.7	2.5	169.0	0.0	57.3	2.2
50.0	0.0	93.5	5.7	110.0	0.0	60.3	2.4	170.0	0.0	57.5	2.2
51.0	0.0	94.2	5.8	111.0	0.0	58.9	2.3	171.0	0.0	57.7	2.2
52.0	0.0	94.6	5.9	112.0	0.0	57.6	2.2	172.0	0.0	57.9	2.2
53.0	0.0	95.2	5.9	113.0	0.0	56.4	2.1	173.0	0.0	58.0	2.2
54.0	0.0	95.6	6.0	114.0	0.0	55.1	2.0	174.0	0.0	58.2	2.2
55.0	0.0	96.1	6.1	115.0	0.0	53.9	1.9	175.0	0.0	58.2	2.2
56.0	0.0	96.6	6.1	116.0	0.0	52.7	1.8	176.0	0.0	58.3	2.2
57.0	0.0	96.9	6.2	117.0	0.0	51.6	1.7	177.0	0.0	58.4	2.2
58.0	0.0	97.4	6.2	118.0	0.0	50.5	1.7	178.0	0.0	58.4	2.2
59.0	0.0	97.7	6.3	119.0	0.0	49.5	1.6	179.0	0.0	58.4	2.2

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	2.2	240.0	0.0	49.6	1.6	300.0	0.0	98.6	6.4
181.0	0.0	58.3	2.2	241.0	0.0	50.7	1.7	301.0	0.0	98.3	6.3
182.0	0.0	58.3	2.2	242.0	0.0	51.8	1.8	302.0	0.0	97.9	6.3
183.0	0.0	58.1	2.2	243.0	0.0	53.0	1.8	303.0	0.0	97.6	6.3
184.0	0.0	58.0	2.2	244.0	0.0	54.3	1.9	304.0	0.0	97.2	6.2
185.0	0.0	57.9	2.2	245.0	0.0	55.5	2.0	305.0	0.0	96.8	6.2
186.0	0.0	57.7	2.2	246.0	0.0	56.8	2.1	306.0	0.0	96.4	6.1
187.0	0.0	57.5	2.2	247.0	0.0	58.1	2.2	307.0	0.0	95.8	6.0
188.0	0.0	57.3	2.2	248.0	0.0	59.5	2.3	308.0	0.0	95.4	6.0
189.0	0.0	57.0	2.1	249.0	0.0	60.9	2.4	309.0	0.0	94.8	5.9
190.0	0.0	56.8	2.1	250.0	0.0	62.3	2.5	310.0	0.0	94.4	5.9
191.0	0.0	56.5	2.1	251.0	0.0	63.7	2.7	311.0	0.0	93.9	5.8
192.0	0.0	56.1	2.1	252.0	0.0	65.1	2.8	312.0	0.0	93.3	5.7
193.0	0.0	55.8	2.0	253.0	0.0	66.5	2.9	313.0	0.0	92.7	5.6
194.0	0.0	55.4	2.0	254.0	0.0	68.0	3.0	314.0	0.0	92.1	5.6
195.0	0.0	55.1	2.0	255.0	0.0	69.3	3.2	315.0	0.0	91.6	5.5
196.0	0.0	54.7	2.0	256.0	0.0	70.7	3.3	316.0	0.0	91.0	5.4
197.0	0.0	54.2	1.9	257.0	0.0	72.1	3.4	317.0	0.0	90.4	5.4
198.0	0.0	53.8	1.9	258.0	0.0	73.5	3.5	318.0	0.0	89.8	5.3
199.0	0.0	53.3	1.9	259.0	0.0	74.9	3.7	319.0	0.0	89.2	5.2
200.0	0.0	52.9	1.8	260.0	0.0	76.2	3.8	320.0	0.0	88.6	5.2
201.0	0.0	52.3	1.8	261.0	0.0	77.5	3.9	321.0	0.0	88.0	5.1
202.0	0.0	51.8	1.8	262.0	0.0	78.8	4.1	322.0	0.0	87.4	5.0
203.0	0.0	51.3	1.7	263.0	0.0	80.1	4.2	323.0	0.0	86.8	4.9
204.0	0.0	50.8	1.7	264.0	0.0	81.4	4.4	324.0	0.0	86.2	4.9
205.0	0.0	50.2	1.7	265.0	0.0	82.6	4.5	325.0	0.0	85.6	4.8
206.0	0.0	49.7	1.6	266.0	0.0	83.9	4.6	326.0	0.0	85.0	4.7
207.0	0.0	49.1	1.6	267.0	0.0	85.1	4.8	327.0	0.0	84.4	4.7
208.0	0.0	48.6	1.5	268.0	0.0	86.3	4.9	328.0	0.0	83.8	4.6
209.0	0.0	48.0	1.5	269.0	0.0	87.4	5.0	329.0	0.0	83.3	4.6
210.0	0.0	47.5	1.5	270.0	0.0	88.5	5.1	330.0	0.0	82.7	4.5
211.0	0.0	46.9	1.4	271.0	0.0	89.5	5.3	331.0	0.0	82.2	4.4
212.0	0.0	46.4	1.4	272.0	0.0	90.5	5.4	332.0	0.0	81.6	4.4
213.0	0.0	45.8	1.4	273.0	0.0	91.4	5.5	333.0	0.0	81.1	4.3
214.0	0.0	45.3	1.3	274.0	0.0	92.2	5.6	334.0	0.0	80.6	4.3
215.0	0.0	44.8	1.3	275.0	0.0	93.1	5.7	335.0	0.0	80.1	4.2
216.0	0.0	44.3	1.3	276.0	0.0	93.9	5.8	336.0	0.0	79.6	4.2
217.0	0.0	43.8	1.3	277.0	0.0	94.6	5.9	337.0	0.0	79.1	4.1
218.0	0.0	43.4	1.2	278.0	0.0	95.3	6.0	338.0	0.0	78.7	4.1
219.0	0.0	43.1	1.2	279.0	0.0	95.9	6.0	339.0	0.0	78.2	4.0
220.0	0.0	42.7	1.2	280.0	0.0	96.6	6.1	340.0	0.0	77.8	4.0
221.0	0.0	42.4	1.2	281.0	0.0	97.0	6.2	341.0	0.0	77.4	3.9
222.0	0.0	42.1	1.2	282.0	0.0	97.6	6.3	342.0	0.0	77.0	3.9
223.0	0.0	41.9	1.2	283.0	0.0	98.0	6.3	343.0	0.0	76.6	3.9
224.0	0.0	41.8	1.1	284.0	0.0	98.4	6.4	344.0	0.0	76.3	3.8
225.0	0.0	41.8	1.1	285.0	0.0	98.7	6.4	345.0	0.0	75.9	3.8
226.0	0.0	41.7	1.1	286.0	0.0	99.1	6.4	346.0	0.0	75.6	3.8
227.0	0.0	41.8	1.1	287.0	0.0	99.3	6.5	347.0	0.0	75.3	3.7
228.0	0.0	42.0	1.2	288.0	0.0	99.5	6.5	348.0	0.0	75.1	3.7
229.0	0.0	42.1	1.2	289.0	0.0	99.6	6.5	349.0	0.0	74.8	3.7
230.0	0.0	42.4	1.2	290.0	0.0	99.8	6.5	350.0	0.0	74.6	3.7
231.0	0.0	42.8	1.2	291.0	0.2	100.0	6.6	351.0	0.0	74.3	3.6
232.0	0.0	43.3	1.2	292.0	0.0	99.9	6.6	352.0	0.0	74.1	3.6
233.0	0.0	43.8	1.3	293.0	0.0	99.9	6.6	353.0	0.0	74.0	3.6
234.0	0.0	44.5	1.3	294.0	0.0	99.8	6.5	354.0	0.0	73.8	3.6
235.0	0.0	45.1	1.3	295.0	0.0	99.6	6.5	355.0	0.0	73.6	3.6
236.0	0.0	45.9	1.4	296.0	0.0	99.5	6.5	356.0	0.0	73.5	3.6
237.0	0.0	46.7	1.4	297.0	0.0	99.3	6.5	357.0	0.0	73.4	3.5
238.0	0.0	47.6	1.5	298.0	0.0	99.1	6.4	358.0	0.0	73.3	3.5
239.0	0.0	48.6	1.6	299.0	0.0	98.8	6.4	359.0	0.0	73.3	3.5

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	99.9	6.6	15.4	13.3	0.1	30.7	5.3	0.0
0.3	100.0	6.6	15.6	13.0	0.1	31.0	4.6	0.0
0.5	99.5	6.5	15.9	12.6	0.1	31.2	3.8	0.0
0.8	98.5	6.4	16.1	12.0	0.1	31.5	2.9	0.0
1.0	96.9	6.2	16.4	11.3	0.1	31.7	2.1	0.0
1.3	94.7	5.9	16.6	10.3	0.1	32.0	1.1	0.0
1.5	91.9	5.6	16.9	9.3	0.1	32.3	0.2	0.0
1.8	88.7	5.2	17.2	8.1	0.0	32.5	0.7	0.0
2.0	85.0	4.7	17.4	6.9	0.0	32.8	1.6	0.0
2.3	80.8	4.3	17.7	5.6	0.0	33.0	2.5	0.0
2.6	76.3	3.8	17.9	4.2	0.0	33.3	3.4	0.0
2.8	71.4	3.3	18.2	2.9	0.0	33.5	4.2	0.0
3.1	66.2	2.9	18.4	1.5	0.0	33.8	5.0	0.0
3.3	60.7	2.4	18.7	0.1	0.0	34.0	5.7	0.0
3.6	55.0	2.0	18.9	1.2	0.0	34.3	6.4	0.0
3.8	49.2	1.6	19.2	2.5	0.0	34.6	7.0	0.0
4.1	43.3	1.2	19.5	3.7	0.0	34.8	7.5	0.0
4.4	37.4	0.9	19.7	4.8	0.0	35.1	7.9	0.0
4.6	31.5	0.7	20.0	5.8	0.0	35.3	8.2	0.0
4.9	25.7	0.4	20.2	6.7	0.0	35.6	8.5	0.0
5.1	20.1	0.3	20.5	7.5	0.0	35.8	8.6	0.0
5.4	14.6	0.1	20.7	8.1	0.0	36.1	8.6	0.0
5.6	9.4	0.1	21.0	8.6	0.0	36.4	8.6	0.0
5.9	4.5	0.0	21.2	9.0	0.1	36.6	8.4	0.0
6.1	0.1	0.0	21.5	9.2	0.1	36.9	8.2	0.0
6.4	4.3	0.0	21.8	9.3	0.1	37.1	7.9	0.0
6.7	8.2	0.0	22.0	9.3	0.1	37.4	7.5	0.0
6.9	11.6	0.1	22.3	9.1	0.1	37.6	6.9	0.0
7.2	14.7	0.1	22.5	8.8	0.1	37.9	6.4	0.0
7.4	17.2	0.2	22.8	8.4	0.0	38.1	5.7	0.0
7.7	19.3	0.2	23.0	7.9	0.0	38.4	5.0	0.0
7.9	21.0	0.3	23.3	7.2	0.0	38.7	4.2	0.0
8.2	22.2	0.3	23.6	6.5	0.0	38.9	3.4	0.0
8.4	23.0	0.3	23.8	5.7	0.0	39.2	2.6	0.0
8.7	23.3	0.4	24.1	4.8	0.0	39.4	1.7	0.0
9.0	23.2	0.4	24.3	3.9	0.0	39.7	0.8	0.0
9.2	22.8	0.3	24.6	2.9	0.0	39.9	0.1	0.0
9.5	22.0	0.3	24.8	1.9	0.0	40.2	1.0	0.0
9.7	20.9	0.3	25.1	0.9	0.0	40.4	1.9	0.0
10.0	19.5	0.2	25.3	0.1	0.0	40.7	2.8	0.0
10.2	17.9	0.2	25.6	1.1	0.0	41.0	3.6	0.0
10.5	16.0	0.2	25.9	2.1	0.0	41.2	4.4	0.0
10.8	14.0	0.1	26.1	3.0	0.0	41.5	5.2	0.0
11.0	11.9	0.1	26.4	3.9	0.0	41.7	5.9	0.0
11.3	9.6	0.1	26.6	4.7	0.0	42.0	6.6	0.0
11.5	7.3	0.0	26.9	5.5	0.0	42.2	7.2	0.0
11.8	5.0	0.0	27.1	6.2	0.0	42.5	7.7	0.0
12.0	2.7	0.0	27.4	6.7	0.0	42.8	8.2	0.0
12.3	0.5	0.0	27.6	7.2	0.0	43.0	8.5	0.0
12.5	1.6	0.0	27.9	7.7	0.0	43.3	8.8	0.1
12.8	3.6	0.0	28.2	8.0	0.0	43.5	9.0	0.1
13.1	5.5	0.0	28.4	8.1	0.0	43.8	9.2	0.1
13.3	7.2	0.0	28.7	8.2	0.0	44.0	9.2	0.1
13.6	8.7	0.0	28.9	8.2	0.0	44.3	9.2	0.1
13.8	10.0	0.1	29.2	8.1	0.0	44.5	9.1	0.1
14.1	11.1	0.1	29.4	7.9	0.0	44.8	8.9	0.1
14.3	12.0	0.1	29.7	7.5	0.0	45.1	8.6	0.0
14.6	12.7	0.1	30.0	7.1	0.0	45.3	8.3	0.0
14.8	13.1	0.1	30.2	6.6	0.0	45.6	7.8	0.0
15.1	13.3	0.1	30.5	6.0	0.0	45.8	7.4	0.0

Vertical diagram at an azimuth of 292.5°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
46.1	6.8	0.0	61.4	4.5	0.0	76.8	1.4	0.0
46.3	6.2	0.0	61.7	4.8	0.0	77.1	1.5	0.0
46.6	5.6	0.0	62.0	5.1	0.0	77.3	1.6	0.0
46.8	4.9	0.0	62.2	5.3	0.0	77.6	1.7	0.0
47.1	4.2	0.0	62.5	5.5	0.0	77.8	1.8	0.0
47.4	3.4	0.0	62.7	5.7	0.0	78.1	1.9	0.0
47.6	2.6	0.0	63.0	5.9	0.0	78.3	2.0	0.0
47.9	1.8	0.0	63.2	6.0	0.0	78.6	2.1	0.0
48.1	1.0	0.0	63.5	6.2	0.0	78.8	2.1	0.0
48.4	0.2	0.0	63.7	6.2	0.0	79.1	2.2	0.0
48.6	0.6	0.0	64.0	6.3	0.0	79.4	2.3	0.0
48.9	1.3	0.0	64.3	6.4	0.0	79.6	2.4	0.0
49.2	2.1	0.0	64.5	6.4	0.0	79.9	2.4	0.0
49.4	2.9	0.0	64.8	6.4	0.0	80.1	2.5	0.0
49.7	3.6	0.0	65.0	6.3	0.0	80.4	2.6	0.0
49.9	4.3	0.0	65.3	6.3	0.0	80.6	2.6	0.0
50.2	4.9	0.0	65.5	6.2	0.0	80.9	2.7	0.0
50.4	5.5	0.0	65.8	6.2	0.0	81.2	2.8	0.0
50.7	6.1	0.0	66.0	6.1	0.0	81.4	2.8	0.0
50.9	6.6	0.0	66.3	5.9	0.0	81.7	2.9	0.0
51.2	7.1	0.0	66.6	5.8	0.0	81.9	2.9	0.0
51.5	7.5	0.0	66.8	5.7	0.0	82.2	3.0	0.0
51.7	7.8	0.0	67.1	5.5	0.0	82.4	3.0	0.0
52.0	8.1	0.0	67.3	5.4	0.0	82.7	3.1	0.0
52.2	8.3	0.0	67.6	5.2	0.0	82.9	3.1	0.0
52.5	8.5	0.0	67.8	5.0	0.0	83.2	3.2	0.0
52.7	8.6	0.0	68.1	4.8	0.0	83.5	3.2	0.0
53.0	8.7	0.0	68.4	4.6	0.0	83.7	3.3	0.0
53.2	8.7	0.0	68.6	4.4	0.0	84.0	3.3	0.0
53.5	8.7	0.0	68.9	4.2	0.0	84.2	3.4	0.0
53.8	8.6	0.0	69.1	4.0	0.0	84.5	3.4	0.0
54.0	8.4	0.0	69.4	3.8	0.0	84.7	3.5	0.0
54.3	8.2	0.0	69.6	3.6	0.0	85.0	3.5	0.0
54.5	8.0	0.0	69.9	3.3	0.0	85.2	3.5	0.0
54.8	7.7	0.0	70.1	3.1	0.0	85.5	3.6	0.0
55.0	7.3	0.0	70.4	2.9	0.0	85.8	3.6	0.0
55.3	7.0	0.0	70.7	2.7	0.0	86.0	3.6	0.0
55.6	6.6	0.0	70.9	2.5	0.0	86.3	3.7	0.0
55.8	6.1	0.0	71.2	2.3	0.0	86.5	3.7	0.0
56.1	5.7	0.0	71.4	2.0	0.0	86.8	3.7	0.0
56.3	5.2	0.0	71.7	1.8	0.0	87.0	3.8	0.0
56.6	4.7	0.0	71.9	1.6	0.0	87.3	3.8	0.0
56.8	4.2	0.0	72.2	1.4	0.0	87.6	3.8	0.0
57.1	3.6	0.0	72.4	1.2	0.0	87.8	3.8	0.0
57.3	3.1	0.0	72.7	1.0	0.0	88.1	3.9	0.0
57.6	2.6	0.0	73.0	0.9	0.0	88.3	3.9	0.0
57.9	2.0	0.0	73.2	0.7	0.0	88.6	3.9	0.0
58.1	1.5	0.0	73.5	0.5	0.0	88.8	3.9	0.0
58.4	0.9	0.0	73.7	0.3	0.0	89.1	4.0	0.0
58.6	0.4	0.0	74.0	0.2	0.0	89.3	4.0	0.0
58.9	0.2	0.0	74.2	0.0	0.0	89.6	4.0	0.0
59.1	0.7	0.0	74.5	0.2	0.0	89.9	4.0	0.0
59.4	1.2	0.0	74.8	0.3	0.0	90.1	2.5	0.0
59.6	1.7	0.0	75.0	0.5	0.0	90.4	2.5	0.0
59.9	2.1	0.0	75.3	0.6	0.0	90.6	2.5	0.0
60.2	2.6	0.0	75.5	0.7	0.0	90.9	2.5	0.0
60.4	3.0	0.0	75.8	0.9	0.0	91.1	2.5	0.0
60.7	3.4	0.0	76.0	1.0	0.0	91.4	2.5	0.0
60.9	3.8	0.0	76.3	1.1	0.0	91.6	2.5	0.0
61.2	4.1	0.0	76.5	1.3	0.0	91.9	2.5	0.0