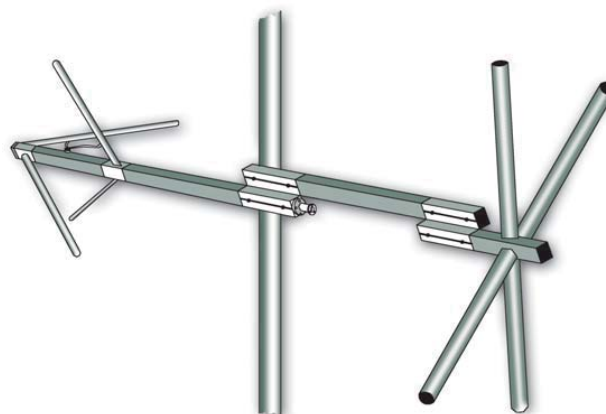


2 Bay TFC2K-D 98.1MHz

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

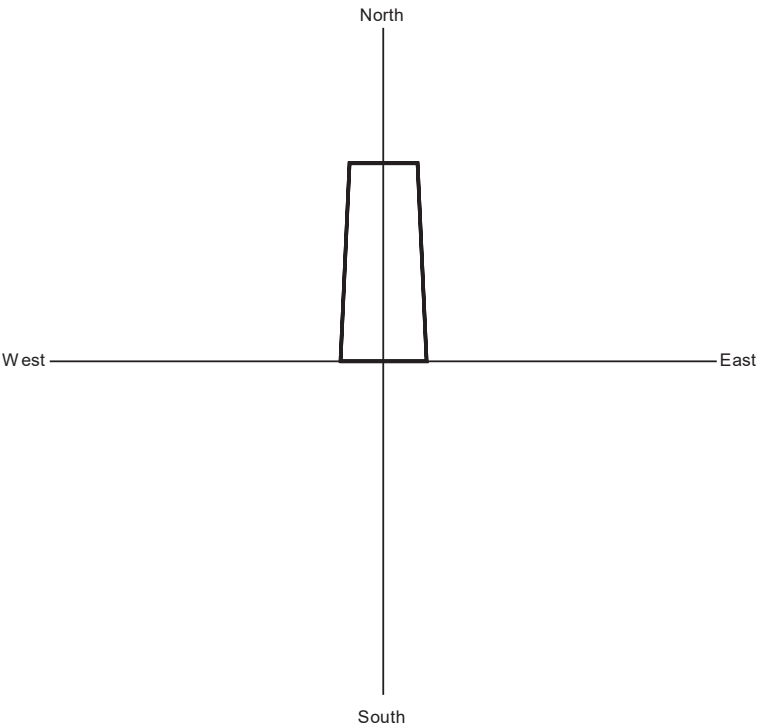
Information about antennas used in the System

	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

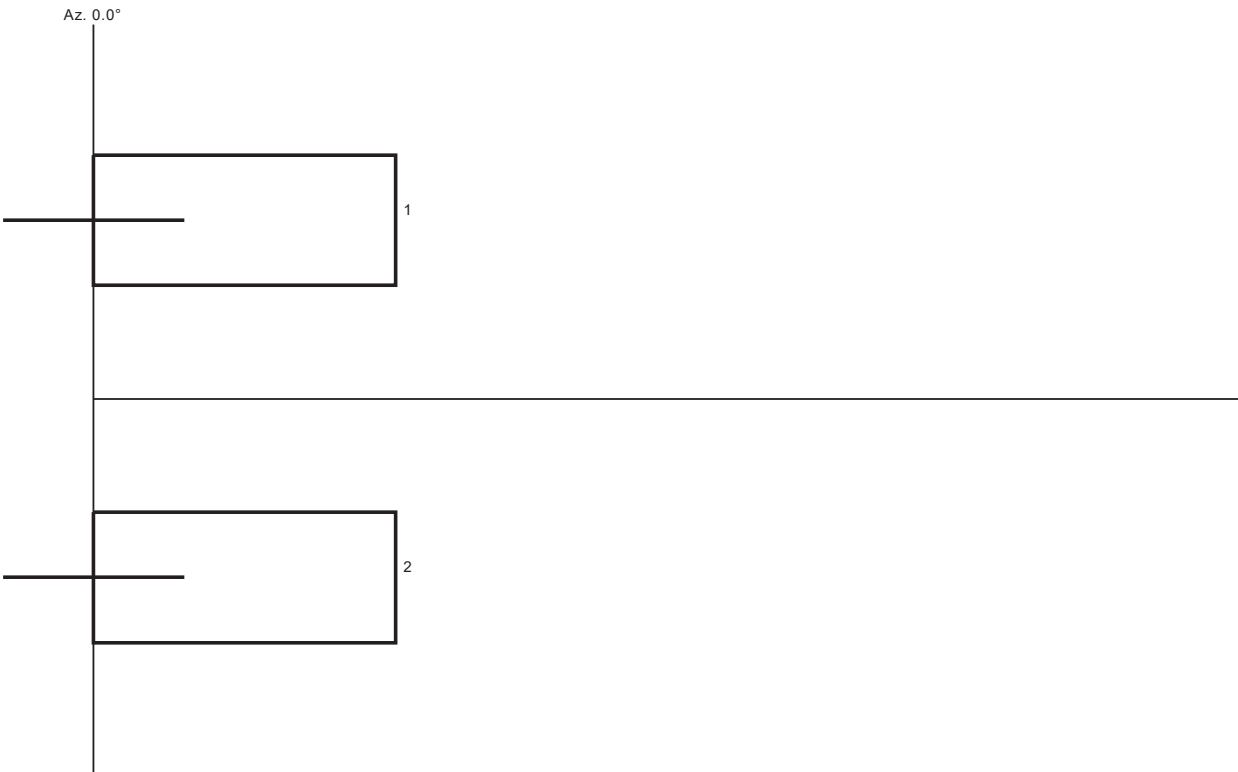
Geometrical and electrical data of antenna System

	<i>Power</i> (%)	<i>Tilt</i> (°)	<i>Az.</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	50.000	0	0	0 +0.0	1.30	0.0	0.0	1	1	0.0	0.0
2	50.000	0	0	0 +0.0	-1.30	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	2
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)	1.32
G. Distribution losses (dB)	0.00
H. Nominal max gain F - G (dBd)	1.32
I. Compensation losses (dB)	0.31
J. Effec. max gain H - I (dBd)	1.01
K. Effec. max gain (times)	1.26
L. Effec. max power E * K (KW)	0.0013
M. Max power depr. angle (°)	3.7
N. Max power az. angle (°)	291

Diagram in dBK calculated at horizon

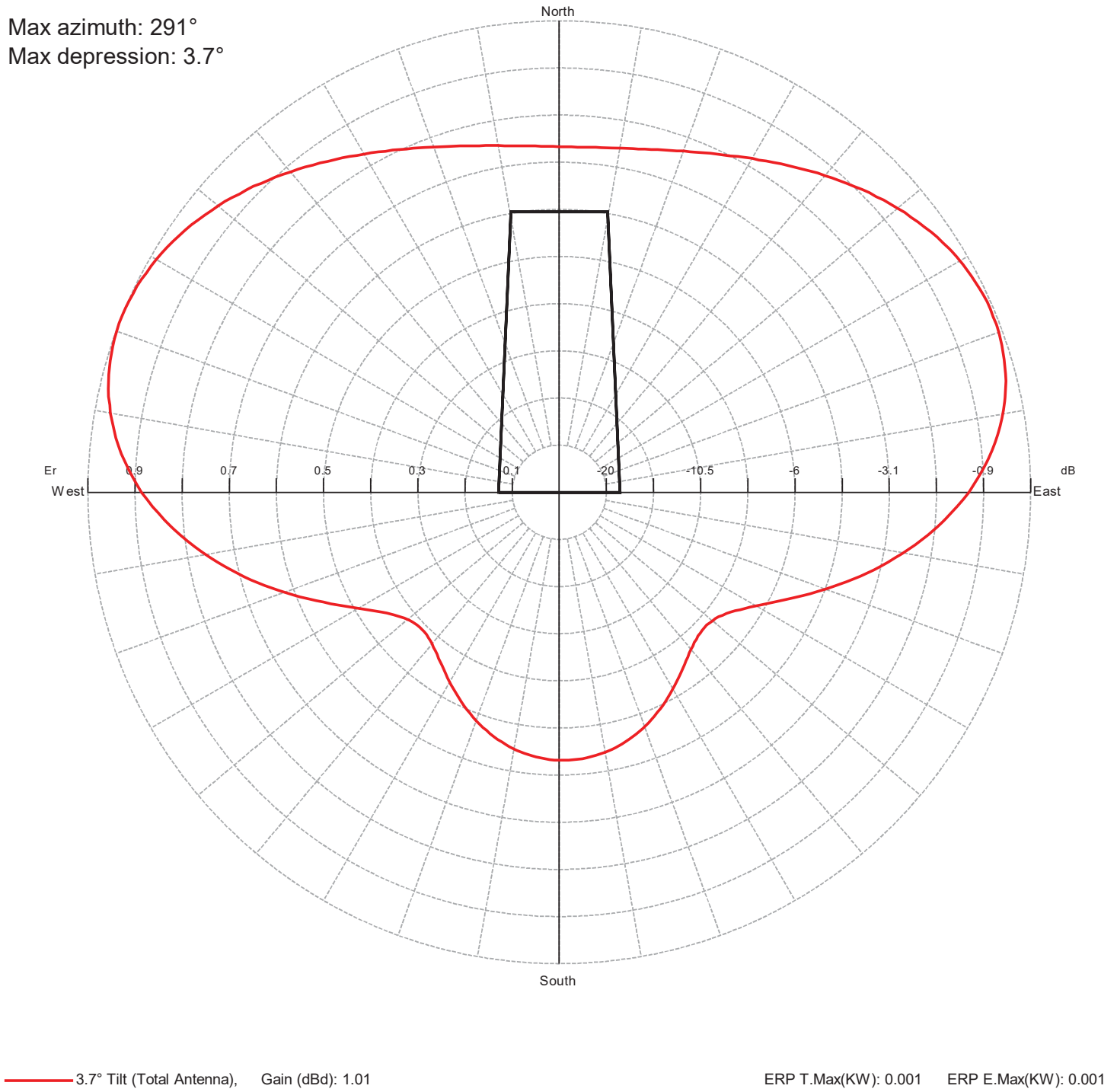
Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	-31.9	90	-30.5	180	-33.9	270	-30.3
10	-31.8	100	-31.8	190	-34.1	280	-29.5
20	-31.5	110	-33.6	200	-34.8	290	-29.2
30	-31.0	120	-35.5	210	-35.7	300	-29.3
40	-30.4	130	-36.6	220	-36.6	310	-29.7
50	-29.8	140	-36.3	230	-36.7	320	-30.3
60	-29.4	150	-35.4	240	-35.3	330	-30.9
70	-29.3	160	-34.5	250	-33.3	340	-31.4
80	-29.6	170	-34.0	260	-31.6	350	-31.8

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	-31.9	90	-30.5	180	-33.9	270	-30.3
10	-31.8	100	-31.8	190	-34.1	280	-29.5
20	-31.5	110	-33.6	200	-34.8	290	-29.2
30	-31.0	120	-35.5	210	-35.7	300	-29.3
40	-30.4	130	-36.6	220	-36.6	310	-29.7
50	-29.8	140	-36.3	230	-36.7	320	-30.3
60	-29.4	150	-35.4	240	-35.3	330	-30.9
70	-29.3	160	-34.5	250	-33.3	340	-31.4
80	-29.6	170	-34.0	260	-31.6	350	-31.8

Horizontal diagram of Maxima

Max azimuth: 291°
Max depression: 3.7°



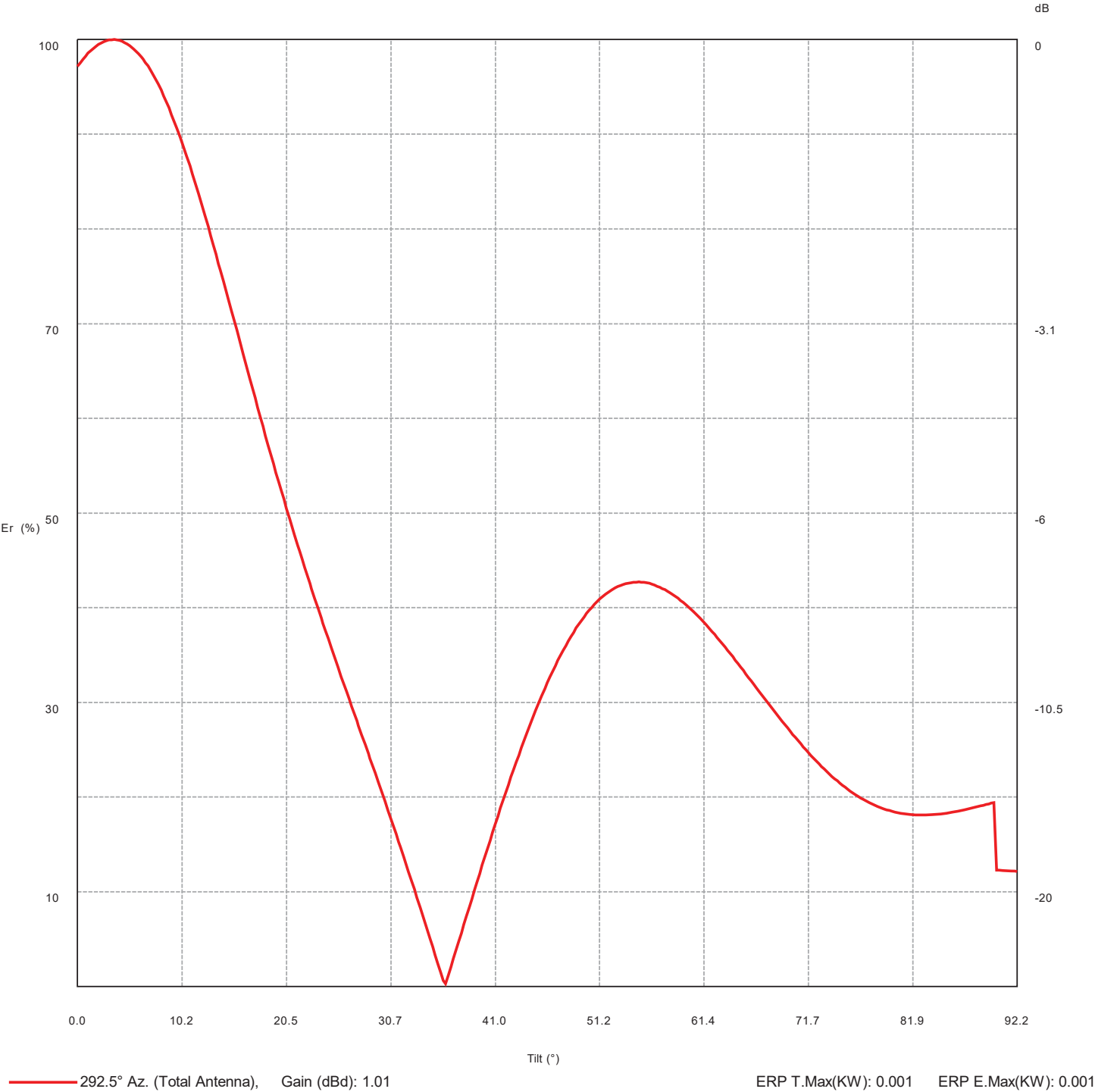
Horizontal diagram of Maxima

Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)
0.0	3.5	73.3	0.7	60.0	3.5	98.2	1.2	120.0	3.0	48.2	0.3
1.0	3.5	73.3	0.7	61.0	3.5	98.4	1.2	121.0	3.0	47.3	0.3
2.0	3.5	73.3	0.7	62.0	3.5	98.6	1.2	122.0	3.0	46.5	0.3
3.0	3.5	73.3	0.7	63.0	3.5	98.9	1.2	123.0	3.0	45.7	0.3
4.0	3.5	73.4	0.7	64.0	3.5	99.1	1.2	124.0	3.0	45.0	0.3
5.0	3.5	73.4	0.7	65.0	3.5	99.2	1.2	125.0	3.0	44.4	0.2
6.0	3.5	73.5	0.7	66.0	3.5	99.3	1.2	126.0	3.0	43.8	0.2
7.0	3.5	73.6	0.7	67.0	3.5	99.3	1.2	127.0	3.0	43.4	0.2
8.0	3.5	73.8	0.7	68.0	3.5	99.3	1.2	128.0	3.0	42.9	0.2
9.0	3.5	73.9	0.7	69.0	3.5	99.3	1.2	129.0	3.0	42.6	0.2
10.0	3.5	74.1	0.7	70.0	3.5	99.2	1.2	130.0	3.0	42.4	0.2
11.0	3.5	74.3	0.7	71.0	3.5	99.1	1.2	131.0	3.0	42.2	0.2
12.0	3.5	74.5	0.7	72.0	3.5	98.9	1.2	132.0	3.0	42.1	0.2
13.0	3.5	74.7	0.7	73.0	3.5	98.6	1.2	133.0	3.0	42.1	0.2
14.0	3.5	75.0	0.7	74.0	3.5	98.3	1.2	134.0	3.0	42.2	0.2
15.0	3.5	75.2	0.7	75.0	3.5	97.9	1.2	135.0	3.0	42.2	0.2
16.0	3.5	75.6	0.7	76.0	3.5	97.6	1.2	136.0	3.0	42.4	0.2
17.0	3.5	75.9	0.7	77.0	3.5	97.2	1.2	137.0	3.0	42.6	0.2
18.0	3.5	76.2	0.7	78.0	3.5	96.7	1.2	138.0	3.0	42.9	0.2
19.0	3.5	76.6	0.7	79.0	3.5	96.2	1.2	139.0	3.0	43.2	0.2
20.0	3.5	77.0	0.7	80.0	3.5	95.5	1.2	140.0	3.0	43.5	0.2
21.0	3.5	77.4	0.8	81.0	3.5	94.8	1.1	141.0	2.5	43.9	0.2
22.0	3.5	77.8	0.8	82.0	3.5	94.2	1.1	142.0	2.5	44.3	0.2
23.0	3.5	78.3	0.8	83.0	3.5	93.4	1.1	143.0	2.5	44.7	0.3
24.0	3.5	78.7	0.8	84.0	3.5	92.7	1.1	144.0	2.5	45.2	0.3
25.0	3.5	79.2	0.8	85.0	3.5	91.8	1.1	145.0	2.5	45.7	0.3
26.0	3.5	79.6	0.8	86.0	3.5	90.9	1.0	146.0	2.5	46.2	0.3
27.0	3.5	80.1	0.8	87.0	3.5	89.9	1.0	147.0	2.5	46.6	0.3
28.0	3.5	80.6	0.8	88.0	3.5	88.9	1.0	148.0	2.0	47.1	0.3
29.0	3.5	81.2	0.8	89.0	3.5	87.9	1.0	149.0	2.0	47.7	0.3
30.0	3.5	81.7	0.8	90.0	3.5	86.9	1.0	150.0	2.0	48.2	0.3
31.0	3.5	82.2	0.9	91.0	3.5	85.7	0.9	151.0	2.0	48.7	0.3
32.0	3.5	82.8	0.9	92.0	3.5	84.5	0.9	152.0	2.0	49.2	0.3
33.0	3.5	83.4	0.9	93.0	3.5	83.3	0.9	153.0	2.0	49.7	0.3
34.0	3.5	84.0	0.9	94.0	3.5	82.1	0.9	154.0	2.0	50.2	0.3
35.0	3.5	84.6	0.9	95.0	3.5	80.8	0.8	155.0	2.0	50.7	0.3
36.0	3.5	85.2	0.9	96.0	3.5	79.5	0.8	156.0	2.0	51.1	0.3
37.0	3.5	85.8	0.9	97.0	3.5	78.2	0.8	157.0	2.0	51.6	0.3
38.0	3.5	86.4	0.9	98.0	3.5	76.8	0.7	158.0	1.5	52.1	0.3
39.0	3.5	87.1	1.0	99.0	3.5	75.4	0.7	159.0	1.5	52.5	0.3
40.0	3.5	87.7	1.0	100.0	3.5	74.1	0.7	160.0	1.5	52.9	0.4
41.0	3.5	88.3	1.0	101.0	3.5	72.7	0.7	161.0	1.5	53.3	0.4
42.0	3.5	88.9	1.0	102.0	3.5	71.3	0.6	162.0	1.5	53.7	0.4
43.0	3.5	89.5	1.0	103.0	3.5	70.0	0.6	163.0	1.5	54.1	0.4
44.0	3.5	90.2	1.0	104.0	3.5	68.6	0.6	164.0	1.5	54.4	0.4
45.0	3.5	90.8	1.0	105.0	3.5	67.1	0.6	165.0	1.0	54.7	0.4
46.0	3.5	91.4	1.1	106.0	3.5	65.7	0.5	166.0	1.0	55.0	0.4
47.0	3.5	91.9	1.1	107.0	3.5	64.3	0.5	167.0	1.0	55.3	0.4
48.0	3.5	92.6	1.1	108.0	3.5	62.8	0.5	168.0	1.0	55.6	0.4
49.0	3.5	93.1	1.1	109.0	3.5	61.5	0.5	169.0	1.0	55.8	0.4
50.0	3.5	93.6	1.1	110.0	3.5	60.1	0.5	170.0	1.0	56.0	0.4
51.0	3.5	94.3	1.1	111.0	3.5	58.7	0.4	171.0	1.0	56.2	0.4
52.0	3.5	94.7	1.1	112.0	3.0	57.4	0.4	172.0	1.0	56.3	0.4
53.0	3.5	95.3	1.1	113.0	3.0	56.1	0.4	173.0	1.0	56.5	0.4
54.0	3.5	95.7	1.2	114.0	3.0	54.8	0.4	174.0	1.0	56.6	0.4
55.0	3.5	96.3	1.2	115.0	3.0	53.6	0.4	175.0	1.0	56.7	0.4
56.0	3.5	96.7	1.2	116.0	3.0	52.4	0.3	176.0	1.0	56.8	0.4
57.0	3.5	97.0	1.2	117.0	3.0	51.3	0.3	177.0	1.0	56.9	0.4
58.0	3.5	97.5	1.2	118.0	3.0	50.2	0.3	178.0	1.0	56.9	0.4
59.0	3.5	97.8	1.2	119.0	3.0	49.2	0.3	179.0	-1.0	56.9	0.4

Horizontal diagram of Maxima

Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)
180.0	-1.0	56.9	0.4	240.0	3.0	49.3	0.3	300.0	3.5	98.7	1.2
181.0	-1.0	56.8	0.4	241.0	3.0	50.3	0.3	301.0	3.5	98.4	1.2
182.0	1.0	56.7	0.4	242.0	3.0	51.5	0.3	302.0	3.5	98.1	1.2
183.0	1.0	56.6	0.4	243.0	3.0	52.7	0.4	303.0	3.5	97.7	1.2
184.0	1.0	56.5	0.4	244.0	3.0	54.0	0.4	304.0	3.5	97.3	1.2
185.0	1.0	56.4	0.4	245.0	3.0	55.2	0.4	305.0	3.5	96.9	1.2
186.0	1.0	56.2	0.4	246.0	3.0	56.5	0.4	306.0	3.5	96.5	1.2
187.0	1.0	56.0	0.4	247.0	3.0	57.9	0.4	307.0	3.5	95.9	1.2
188.0	1.0	55.8	0.4	248.0	3.0	59.3	0.4	308.0	3.5	95.5	1.2
189.0	1.0	55.6	0.4	249.0	3.5	60.6	0.5	309.0	3.5	94.9	1.1
190.0	1.0	55.3	0.4	250.0	3.5	62.1	0.5	310.0	3.5	94.5	1.1
191.0	1.0	55.0	0.4	251.0	3.5	63.5	0.5	311.0	3.5	94.0	1.1
192.0	1.0	54.7	0.4	252.0	3.5	64.9	0.5	312.0	3.5	93.4	1.1
193.0	1.0	54.4	0.4	253.0	3.5	66.4	0.6	313.0	3.5	92.8	1.1
194.0	1.0	54.0	0.4	254.0	3.5	67.8	0.6	314.0	3.5	92.3	1.1
195.0	1.5	53.7	0.4	255.0	3.5	69.2	0.6	315.0	3.5	91.7	1.1
196.0	1.5	53.3	0.4	256.0	3.5	70.6	0.6	316.0	3.5	91.1	1.0
197.0	1.5	52.9	0.4	257.0	3.5	72.0	0.7	317.0	3.5	90.5	1.0
198.0	1.5	52.5	0.3	258.0	3.5	73.4	0.7	318.0	3.5	89.9	1.0
199.0	1.5	52.0	0.3	259.0	3.5	74.8	0.7	319.0	3.5	89.3	1.0
200.0	1.5	51.6	0.3	260.0	3.5	76.2	0.7	320.0	3.5	88.7	1.0
201.0	1.5	51.1	0.3	261.0	3.5	77.5	0.8	321.0	3.5	88.1	1.0
202.0	2.0	50.6	0.3	262.0	3.5	78.9	0.8	322.0	3.5	87.5	1.0
203.0	2.0	50.1	0.3	263.0	3.5	80.1	0.8	323.0	3.5	86.9	1.0
204.0	2.0	49.6	0.3	264.0	3.5	81.5	0.8	324.0	3.5	86.3	0.9
205.0	2.0	49.1	0.3	265.0	3.5	82.7	0.9	325.0	3.5	85.7	0.9
206.0	2.0	48.6	0.3	266.0	3.5	84.0	0.9	326.0	3.5	85.1	0.9
207.0	2.0	48.0	0.3	267.0	3.5	85.2	0.9	327.0	3.5	84.5	0.9
208.0	2.0	47.5	0.3	268.0	3.5	86.4	0.9	328.0	3.5	83.9	0.9
209.0	2.0	47.0	0.3	269.0	3.5	87.5	1.0	329.0	3.5	83.4	0.9
210.0	2.0	46.5	0.3	270.0	3.5	88.6	1.0	330.0	3.5	82.8	0.9
211.0	2.0	45.9	0.3	271.0	3.5	89.6	1.0	331.0	3.5	82.3	0.9
212.0	2.5	45.4	0.3	272.0	3.5	90.6	1.0	332.0	3.5	81.7	0.8
213.0	2.5	44.9	0.3	273.0	3.5	91.5	1.1	333.0	3.5	81.2	0.8
214.0	2.5	44.4	0.2	274.0	3.5	92.4	1.1	334.0	3.5	80.7	0.8
215.0	2.5	43.9	0.2	275.0	3.5	93.2	1.1	335.0	3.5	80.2	0.8
216.0	2.5	43.5	0.2	276.0	3.5	94.0	1.1	336.0	3.5	79.7	0.8
217.0	2.5	43.1	0.2	277.0	3.5	94.7	1.1	337.0	3.5	79.2	0.8
218.0	2.5	42.7	0.2	278.0	3.5	95.4	1.1	338.0	3.5	78.8	0.8
219.0	3.0	42.3	0.2	279.0	3.5	96.0	1.2	339.0	3.5	78.3	0.8
220.0	3.0	42.0	0.2	280.0	3.5	96.7	1.2	340.0	3.5	77.9	0.8
221.0	3.0	41.7	0.2	281.0	3.5	97.2	1.2	341.0	3.5	77.5	0.8
222.0	3.0	41.5	0.2	282.0	3.5	97.7	1.2	342.0	3.5	77.1	0.7
223.0	3.0	41.3	0.2	283.0	3.5	98.2	1.2	343.0	3.5	76.7	0.7
224.0	3.0	41.2	0.2	284.0	3.5	98.5	1.2	344.0	3.5	76.4	0.7
225.0	3.0	41.2	0.2	285.0	3.5	98.9	1.2	345.0	3.5	76.0	0.7
226.0	3.0	41.2	0.2	286.0	3.5	99.2	1.2	346.0	3.5	75.7	0.7
227.0	3.0	41.3	0.2	287.0	3.5	99.4	1.2	347.0	3.5	75.4	0.7
228.0	3.0	41.4	0.2	288.0	3.5	99.7	1.3	348.0	3.5	75.2	0.7
229.0	3.0	41.7	0.2	289.0	3.5	99.8	1.3	349.0	3.5	74.9	0.7
230.0	3.0	42.0	0.2	290.0	3.5	99.9	1.3	350.0	3.5	74.6	0.7
231.0	3.0	42.4	0.2	291.0	3.7	100.0	1.3	351.0	3.5	74.4	0.7
232.0	3.0	42.8	0.2	292.0	3.5	100.0	1.3	352.0	3.5	74.2	0.7
233.0	3.0	43.4	0.2	293.0	3.5	100.0	1.3	353.0	3.5	74.0	0.7
234.0	3.0	44.0	0.2	294.0	3.5	99.9	1.3	354.0	3.5	73.9	0.7
235.0	3.0	44.7	0.3	295.0	3.5	99.8	1.3	355.0	3.5	73.7	0.7
236.0	3.0	45.5	0.3	296.0	3.5	99.7	1.3	356.0	3.5	73.6	0.7
237.0	3.0	46.3	0.3	297.0	3.5	99.4	1.2	357.0	3.5	73.4	0.7
238.0	3.0	47.2	0.3	298.0	3.5	99.2	1.2	358.0	3.5	73.4	0.7
239.0	3.0	48.2	0.3	299.0	3.5	99.0	1.2	359.0	3.5	73.4	0.7

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	97.2	1.2	15.4	70.3	0.6	30.7	17.7	0.0
0.3	97.5	1.2	15.6	69.3	0.6	31.0	16.9	0.0
0.5	97.9	1.2	15.9	68.3	0.6	31.2	16.1	0.0
0.8	98.2	1.2	16.1	67.2	0.6	31.5	15.3	0.0
1.0	98.6	1.2	16.4	66.2	0.6	31.7	14.4	0.0
1.3	98.8	1.2	16.6	65.2	0.5	32.0	13.6	0.0
1.5	99.1	1.2	16.9	64.2	0.5	32.3	12.8	0.0
1.8	99.3	1.2	17.2	63.2	0.5	32.5	11.9	0.0
2.0	99.5	1.2	17.4	62.2	0.5	32.8	11.1	0.0
2.3	99.6	1.3	17.7	61.1	0.5	33.0	10.2	0.0
2.6	99.8	1.3	17.9	60.1	0.5	33.3	9.4	0.0
2.8	99.9	1.3	18.2	59.1	0.4	33.5	8.5	0.0
3.1	100.0	1.3	18.4	58.1	0.4	33.8	7.7	0.0
3.3	100.0	1.3	18.7	57.2	0.4	34.0	6.8	0.0
3.6	100.0	1.3	18.9	56.2	0.4	34.3	5.9	0.0
3.8	100.0	1.3	19.2	55.2	0.4	34.6	5.1	0.0
4.1	99.9	1.3	19.5	54.3	0.4	34.8	4.2	0.0
4.4	99.8	1.3	19.7	53.3	0.4	35.1	3.3	0.0
4.6	99.7	1.3	20.0	52.4	0.3	35.3	2.4	0.0
4.9	99.5	1.3	20.2	51.4	0.3	35.6	1.5	0.0
5.1	99.4	1.2	20.5	50.5	0.3	35.8	0.6	0.0
5.4	99.1	1.2	20.7	49.6	0.3	36.1	0.3	0.0
5.6	98.9	1.2	21.0	48.6	0.3	36.4	1.2	0.0
5.9	98.6	1.2	21.2	47.8	0.3	36.6	2.0	0.0
6.1	98.3	1.2	21.5	46.9	0.3	36.9	2.9	0.0
6.4	97.9	1.2	21.8	46.0	0.3	37.1	3.8	0.0
6.7	97.6	1.2	22.0	45.1	0.3	37.4	4.7	0.0
6.9	97.2	1.2	22.3	44.3	0.2	37.6	5.6	0.0
7.2	96.8	1.2	22.5	43.4	0.2	37.9	6.5	0.0
7.4	96.3	1.2	22.8	42.5	0.2	38.1	7.4	0.0
7.7	95.8	1.2	23.0	41.7	0.2	38.4	8.3	0.0
7.9	95.3	1.1	23.3	40.8	0.2	38.7	9.2	0.0
8.2	94.7	1.1	23.6	40.0	0.2	38.9	10.1	0.0
8.4	94.1	1.1	23.8	39.2	0.2	39.2	11.0	0.0
8.7	93.4	1.1	24.1	38.4	0.2	39.4	11.9	0.0
9.0	92.8	1.1	24.3	37.5	0.2	39.7	12.8	0.0
9.2	92.1	1.1	24.6	36.7	0.2	39.9	13.7	0.0
9.5	91.4	1.1	24.8	35.9	0.2	40.2	14.5	0.0
9.7	90.6	1.0	25.1	35.1	0.2	40.4	15.4	0.0
10.0	89.9	1.0	25.3	34.3	0.1	40.7	16.3	0.0
10.2	89.1	1.0	25.6	33.5	0.1	41.0	17.1	0.0
10.5	88.3	1.0	25.9	32.7	0.1	41.2	18.0	0.0
10.8	87.5	1.0	26.1	31.9	0.1	41.5	18.8	0.0
11.0	86.7	0.9	26.4	31.1	0.1	41.7	19.7	0.0
11.3	85.8	0.9	26.6	30.4	0.1	42.0	20.5	0.1
11.5	84.9	0.9	26.9	29.6	0.1	42.2	21.3	0.1
11.8	84.0	0.9	27.1	28.8	0.1	42.5	22.1	0.1
12.0	83.1	0.9	27.4	28.0	0.1	42.8	22.9	0.1
12.3	82.2	0.9	27.6	27.2	0.1	43.0	23.7	0.1
12.5	81.2	0.8	27.9	26.5	0.1	43.3	24.4	0.1
12.8	80.3	0.8	28.2	25.7	0.1	43.5	25.2	0.1
13.1	79.3	0.8	28.4	24.9	0.1	43.8	26.0	0.1
13.3	78.3	0.8	28.7	24.1	0.1	44.0	26.7	0.1
13.6	77.3	0.8	28.9	23.3	0.1	44.3	27.4	0.1
13.8	76.3	0.7	29.2	22.5	0.1	44.5	28.1	0.1
14.1	75.3	0.7	29.4	21.7	0.1	44.8	28.8	0.1
14.3	74.3	0.7	29.7	20.9	0.1	45.1	29.5	0.1
14.6	73.3	0.7	30.0	20.1	0.1	45.3	30.2	0.1
14.8	72.3	0.7	30.2	19.3	0.0	45.6	30.8	0.1
15.1	71.3	0.6	30.5	18.5	0.0	45.8	31.5	0.1

Vertical diagram at an azimuth of 292.5°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
46.1	32.1	0.1	61.4	38.4	0.2	76.8	19.9	0.0
46.3	32.7	0.1	61.7	38.1	0.2	77.1	19.7	0.0
46.6	33.3	0.1	62.0	37.8	0.2	77.3	19.6	0.0
46.8	33.9	0.1	62.2	37.5	0.2	77.6	19.4	0.0
47.1	34.4	0.1	62.5	37.2	0.2	77.8	19.3	0.0
47.4	35.0	0.2	62.7	36.8	0.2	78.1	19.2	0.0
47.6	35.5	0.2	63.0	36.5	0.2	78.3	19.1	0.0
47.9	36.0	0.2	63.2	36.2	0.2	78.6	18.9	0.0
48.1	36.5	0.2	63.5	35.8	0.2	78.8	18.8	0.0
48.4	36.9	0.2	63.7	35.5	0.2	79.1	18.7	0.0
48.6	37.4	0.2	64.0	35.2	0.2	79.4	18.7	0.0
48.9	37.8	0.2	64.3	34.8	0.2	79.6	18.6	0.0
49.2	38.3	0.2	64.5	34.5	0.1	79.9	18.5	0.0
49.4	38.6	0.2	64.8	34.1	0.1	80.1	18.4	0.0
49.7	39.0	0.2	65.0	33.7	0.1	80.4	18.4	0.0
49.9	39.4	0.2	65.3	33.4	0.1	80.6	18.3	0.0
50.2	39.7	0.2	65.5	33.0	0.1	80.9	18.2	0.0
50.4	40.0	0.2	65.8	32.6	0.1	81.2	18.2	0.0
50.7	40.3	0.2	66.0	32.3	0.1	81.4	18.2	0.0
50.9	40.6	0.2	66.3	31.9	0.1	81.7	18.2	0.0
51.2	40.9	0.2	66.6	31.5	0.1	81.9	18.1	0.0
51.5	41.1	0.2	66.8	31.2	0.1	82.2	18.1	0.0
51.7	41.4	0.2	67.1	30.8	0.1	82.4	18.1	0.0
52.0	41.6	0.2	67.3	30.5	0.1	82.7	18.1	0.0
52.2	41.8	0.2	67.6	30.1	0.1	82.9	18.1	0.0
52.5	41.9	0.2	67.8	29.7	0.1	83.2	18.1	0.0
52.7	42.1	0.2	68.1	29.4	0.1	83.5	18.1	0.0
53.0	42.3	0.2	68.4	29.0	0.1	83.7	18.1	0.0
53.2	42.4	0.2	68.6	28.7	0.1	84.0	18.1	0.0
53.5	42.5	0.2	68.9	28.3	0.1	84.2	18.2	0.0
53.8	42.5	0.2	69.1	28.0	0.1	84.5	18.2	0.0
54.0	42.6	0.2	69.4	27.6	0.1	84.7	18.2	0.0
54.3	42.7	0.2	69.6	27.3	0.1	85.0	18.2	0.0
54.5	42.7	0.2	69.9	26.9	0.1	85.2	18.3	0.0
54.8	42.7	0.2	70.1	26.6	0.1	85.5	18.3	0.0
55.0	42.7	0.2	70.4	26.3	0.1	85.8	18.4	0.0
55.3	42.7	0.2	70.7	25.9	0.1	86.0	18.4	0.0
55.6	42.7	0.2	70.9	25.6	0.1	86.3	18.5	0.0
55.8	42.6	0.2	71.2	25.3	0.1	86.5	18.6	0.0
56.1	42.6	0.2	71.4	25.0	0.1	86.8	18.6	0.0
56.3	42.5	0.2	71.7	24.7	0.1	87.0	18.7	0.0
56.6	42.4	0.2	71.9	24.4	0.1	87.3	18.7	0.0
56.8	42.3	0.2	72.2	24.1	0.1	87.6	18.8	0.0
57.1	42.2	0.2	72.4	23.8	0.1	87.8	18.9	0.0
57.3	42.0	0.2	72.7	23.5	0.1	88.1	18.9	0.0
57.6	41.9	0.2	73.0	23.2	0.1	88.3	19.0	0.0
57.9	41.7	0.2	73.2	22.9	0.1	88.6	19.1	0.0
58.1	41.6	0.2	73.5	22.7	0.1	88.8	19.1	0.0
58.4	41.4	0.2	73.7	22.4	0.1	89.1	19.2	0.0
58.6	41.2	0.2	74.0	22.2	0.1	89.3	19.3	0.0
58.9	41.0	0.2	74.2	21.9	0.1	89.6	19.3	0.0
59.1	40.8	0.2	74.5	21.7	0.1	89.9	19.4	0.0
59.4	40.6	0.2	74.8	21.5	0.1	90.1	12.3	0.0
59.6	40.3	0.2	75.0	21.2	0.1	90.4	12.3	0.0
59.9	40.1	0.2	75.3	21.0	0.1	90.6	12.2	0.0
60.2	39.8	0.2	75.5	20.8	0.1	90.9	12.2	0.0
60.4	39.6	0.2	75.8	20.6	0.1	91.1	12.2	0.0
60.7	39.3	0.2	76.0	20.4	0.1	91.4	12.2	0.0
60.9	39.0	0.2	76.3	20.2	0.1	91.6	12.2	0.0
61.2	38.7	0.2	76.5	20.1	0.1	91.9	12.2	0.0