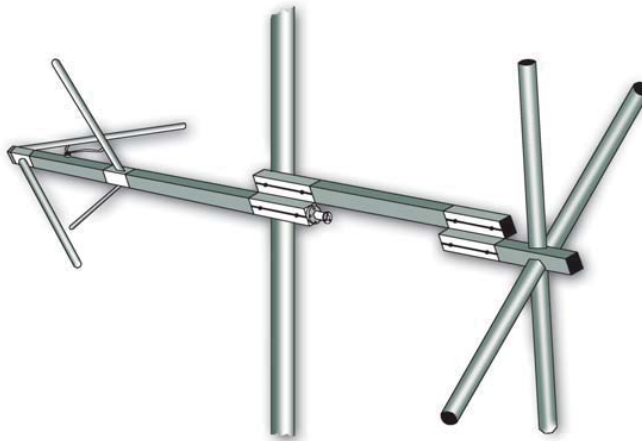


9 Bay TFC2K-D 98.1MHz

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

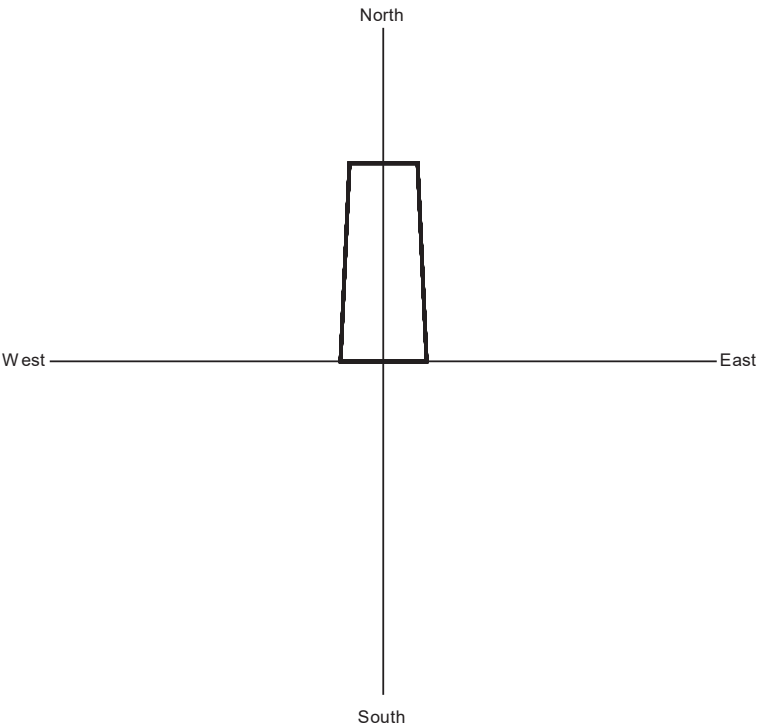
Information about antennas used in the System

	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	11.111	0	0	0 +0.0	10.40	0.0	0.0	1	1	0.0	0.0
2	11.111	0	0	0 +0.0	7.80	0.0	0.0	1	1	0.0	0.0
3	11.111	0	0	0 +0.0	5.20	0.0	0.0	1	1	0.0	0.0
4	11.111	0	0	0 +0.0	2.60	0.0	0.0	1	1	0.0	0.0
5	11.111	0	0	0 +0.0	0.00	0.0	0.0	1	1	0.0	0.0
6	11.111	0	0	0 +0.0	-2.60	0.0	0.0	1	1	0.0	0.0
7	11.111	0	0	0 +0.0	-5.20	0.0	0.0	1	1	0.0	0.0
8	11.111	0	0	0 +0.0	-7.80	0.0	0.0	1	1	0.0	0.0
9	11.111	0	0	0 +0.0	-10.40	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	9
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)	7.85
G. Distribution losses (dB)	0.00
H. Nominal max gain F - G (dBd)	7.85
I. Compensation losses (dB)	0.54
J. Effec. max gain H - I (dBd)	7.31
K. Effec. max gain (times)	5.38
L. Effec. max power E * K (KW)	0.0054
M. Max power depr. angle (°)	0.3
N. Max power az. angle (°)	291

Diagram in dBK calculated at horizon

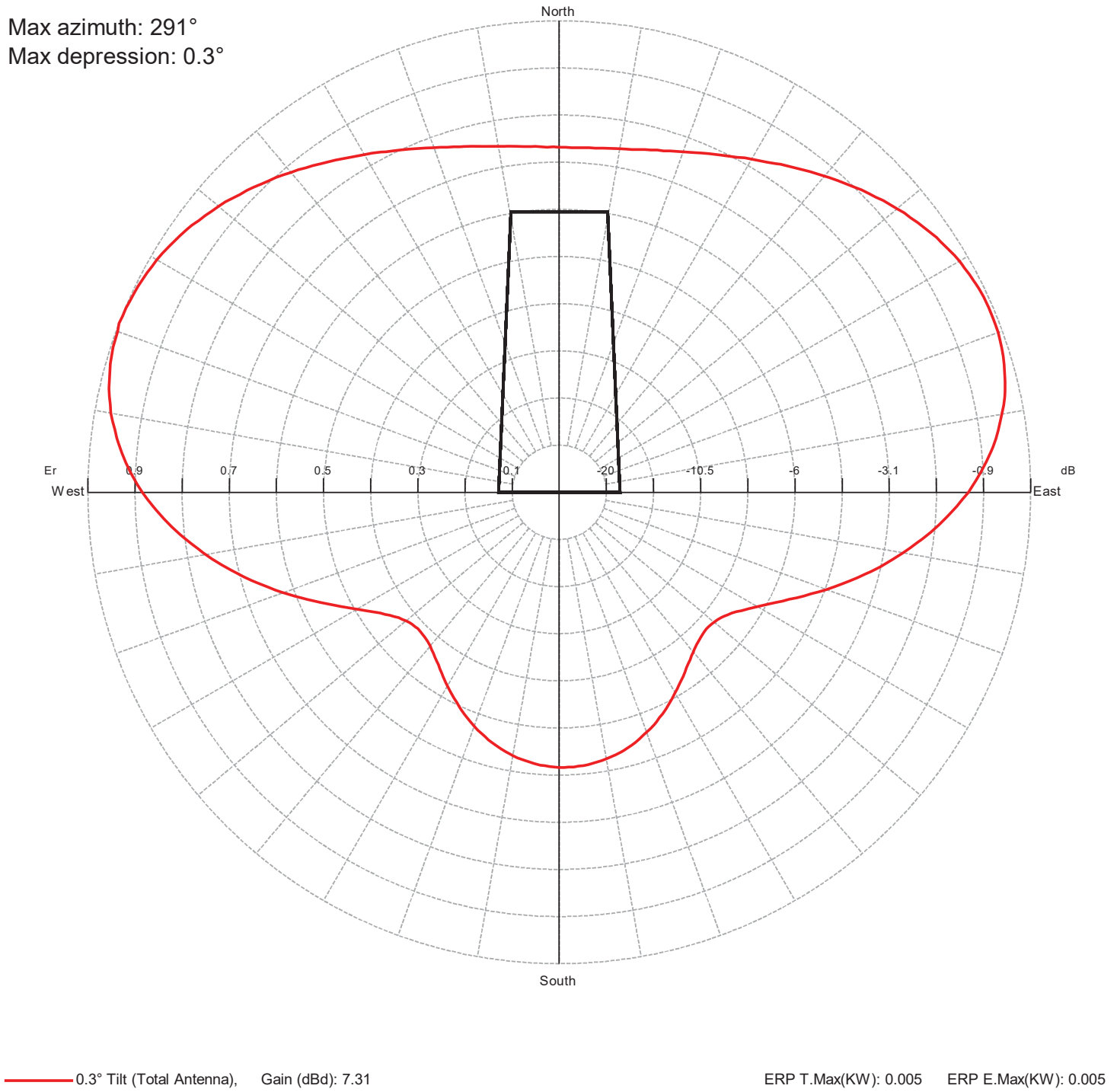
Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	-25.4	90	-23.9	180	-27.4	270	-23.8
10	-25.3	100	-25.3	190	-27.6	280	-23.0
20	-25.0	110	-27.1	200	-28.2	290	-22.7
30	-24.5	120	-29.0	210	-29.2	300	-22.8
40	-23.8	130	-30.1	220	-30.1	310	-23.2
50	-23.3	140	-29.8	230	-30.1	320	-23.7
60	-22.9	150	-28.9	240	-28.8	330	-24.3
70	-22.8	160	-28.0	250	-26.8	340	-24.9
80	-23.1	170	-27.5	260	-25.1	350	-25.2

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	-25.4	90	-23.9	180	-27.4	270	-23.8
10	-25.3	100	-25.3	190	-27.6	280	-23.0
20	-25.0	110	-27.1	200	-28.2	290	-22.7
30	-24.5	120	-29.0	210	-29.2	300	-22.8
40	-23.8	130	-30.1	220	-30.1	310	-23.2
50	-23.3	140	-29.8	230	-30.1	320	-23.7
60	-22.9	150	-28.9	240	-28.8	330	-24.3
70	-22.8	160	-28.0	250	-26.8	340	-24.9
80	-23.1	170	-27.5	260	-25.1	350	-25.2

Horizontal diagram of Maxima

Max azimuth: 291°
Max depression: 0.3°



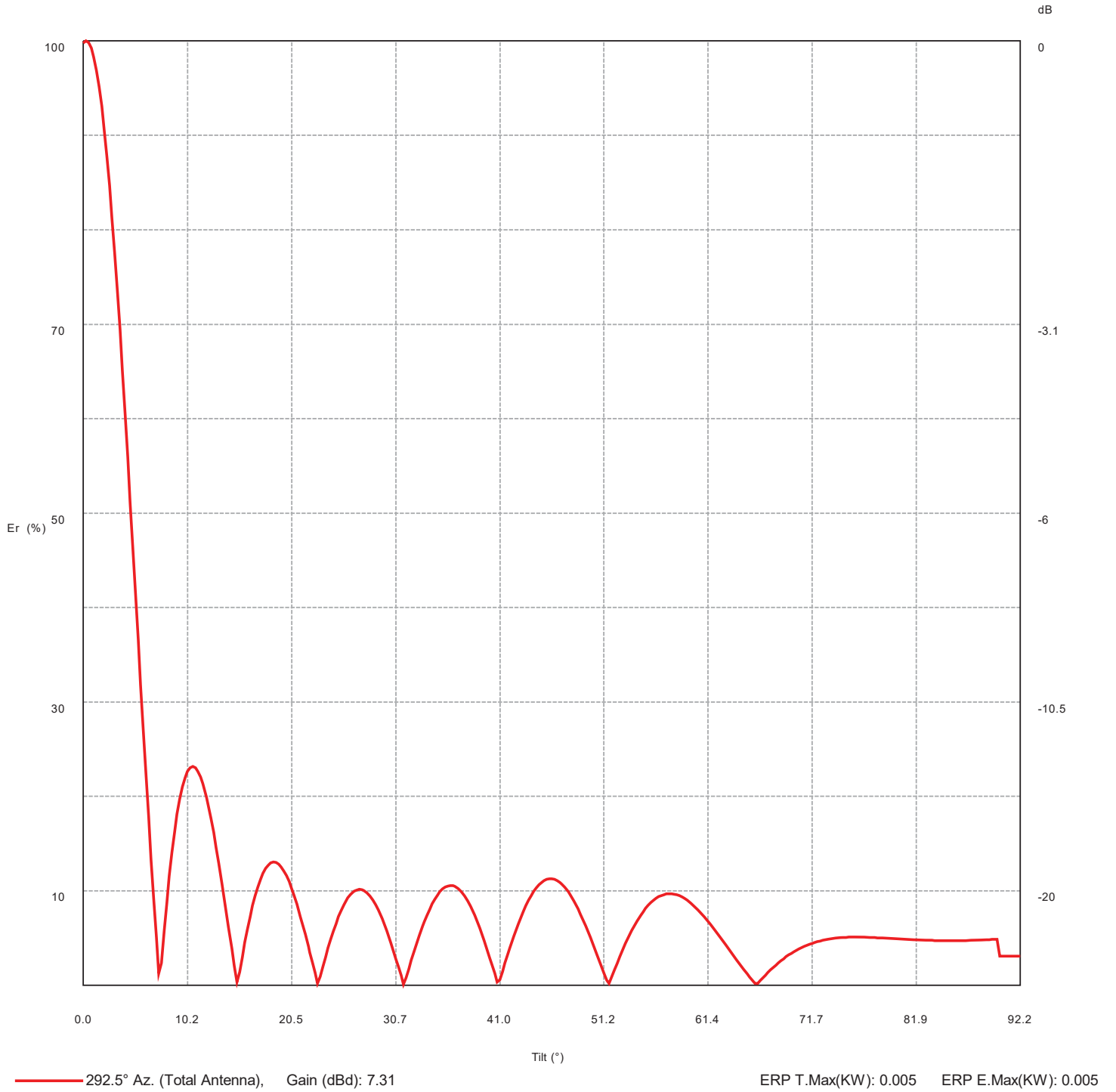
Horizontal diagram of Maxima

Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)
0.0	0.5	73.2	2.9	60.0	0.5	98.0	5.2	120.0	0.0	48.5	1.3
1.0	0.5	73.2	2.9	61.0	0.5	98.2	5.2	121.0	0.0	47.6	1.2
2.0	0.5	73.2	2.9	62.0	0.5	98.5	5.2	122.0	0.0	46.8	1.2
3.0	0.5	73.2	2.9	63.0	0.5	98.7	5.2	123.0	0.0	46.1	1.1
4.0	0.5	73.2	2.9	64.0	0.5	98.9	5.3	124.0	0.0	45.4	1.1
5.0	0.5	73.3	2.9	65.0	0.5	99.0	5.3	125.0	0.0	44.7	1.1
6.0	0.5	73.4	2.9	66.0	0.5	99.1	5.3	126.0	0.0	44.2	1.1
7.0	0.5	73.5	2.9	67.0	0.5	99.1	5.3	127.0	0.0	43.8	1.0
8.0	0.5	73.7	2.9	68.0	0.5	99.1	5.3	128.0	0.0	43.4	1.0
9.0	0.5	73.8	2.9	69.0	0.5	99.1	5.3	129.0	0.0	43.1	1.0
10.0	0.5	74.0	2.9	70.0	0.5	99.0	5.3	130.0	0.0	42.9	1.0
11.0	0.5	74.2	3.0	71.0	0.5	98.9	5.3	131.0	0.0	42.7	1.0
12.0	0.5	74.4	3.0	72.0	0.5	98.7	5.2	132.0	0.0	42.6	1.0
13.0	0.5	74.6	3.0	73.0	0.5	98.5	5.2	133.0	0.0	42.6	1.0
14.0	0.5	74.9	3.0	74.0	0.5	98.1	5.2	134.0	0.0	42.7	1.0
15.0	0.5	75.1	3.0	75.0	0.5	97.8	5.1	135.0	0.0	42.8	1.0
16.0	0.5	75.5	3.1	76.0	0.5	97.5	5.1	136.0	0.0	43.0	1.0
17.0	0.5	75.7	3.1	77.0	0.5	97.0	5.1	137.0	0.0	43.2	1.0
18.0	0.5	76.1	3.1	78.0	0.5	96.6	5.0	138.0	0.0	43.5	1.0
19.0	0.5	76.4	3.1	79.0	0.5	96.0	5.0	139.0	0.0	43.8	1.0
20.0	0.5	76.9	3.2	80.0	0.5	95.3	4.9	140.0	0.0	44.2	1.1
21.0	0.5	77.2	3.2	81.0	0.5	94.7	4.8	141.0	0.0	44.6	1.1
22.0	0.5	77.7	3.2	82.0	0.5	94.0	4.8	142.0	0.0	45.0	1.1
23.0	0.5	78.1	3.3	83.0	0.5	93.3	4.7	143.0	0.0	45.5	1.1
24.0	0.5	78.6	3.3	84.0	0.5	92.5	4.6	144.0	0.0	46.0	1.1
25.0	0.5	79.0	3.4	85.0	0.5	91.7	4.5	145.0	0.0	46.5	1.2
26.0	0.5	79.5	3.4	86.0	0.5	90.7	4.4	146.0	0.0	47.0	1.2
27.0	0.5	79.9	3.4	87.0	0.5	89.8	4.3	147.0	0.0	47.5	1.2
28.0	0.5	80.5	3.5	88.0	0.5	88.8	4.2	148.0	0.0	48.1	1.2
29.0	0.5	81.1	3.5	89.0	0.5	87.8	4.1	149.0	0.0	48.6	1.3
30.0	0.5	81.6	3.6	90.0	0.5	86.8	4.1	150.0	0.0	49.2	1.3
31.0	0.5	82.1	3.6	91.0	0.5	85.6	3.9	151.0	0.0	49.7	1.3
32.0	0.5	82.7	3.7	92.0	0.5	84.4	3.8	152.0	0.0	50.2	1.4
33.0	0.5	83.2	3.7	93.0	0.5	83.2	3.7	153.0	0.0	50.8	1.4
34.0	0.5	83.9	3.8	94.0	0.5	82.0	3.6	154.0	0.0	51.3	1.4
35.0	0.5	84.5	3.8	95.0	0.5	80.7	3.5	155.0	0.0	51.8	1.4
36.0	0.5	85.1	3.9	96.0	0.5	79.4	3.4	156.0	0.0	52.3	1.5
37.0	0.5	85.7	3.9	97.0	0.5	78.1	3.3	157.0	0.0	52.8	1.5
38.0	0.5	86.3	4.0	98.0	0.5	76.8	3.2	158.0	0.0	53.3	1.5
39.0	0.5	87.0	4.1	99.0	0.5	75.4	3.1	159.0	0.0	53.8	1.6
40.0	0.5	87.6	4.1	100.0	0.0	74.0	3.0	160.0	0.0	54.2	1.6
41.0	0.5	88.2	4.2	101.0	0.0	72.7	2.8	161.0	0.0	54.6	1.6
42.0	0.5	88.8	4.2	102.0	0.0	71.3	2.7	162.0	0.0	55.0	1.6
43.0	0.5	89.4	4.3	103.0	0.0	70.0	2.6	163.0	0.0	55.4	1.7
44.0	0.5	90.0	4.4	104.0	0.0	68.6	2.5	164.0	0.0	55.8	1.7
45.0	0.5	90.6	4.4	105.0	0.0	67.2	2.4	165.0	0.0	56.1	1.7
46.0	0.5	91.3	4.5	106.0	0.0	65.8	2.3	166.0	0.0	56.4	1.7
47.0	0.5	91.8	4.5	107.0	0.0	64.4	2.2	167.0	0.0	56.7	1.7
48.0	0.5	92.4	4.6	108.0	0.0	63.0	2.1	168.0	0.0	57.0	1.7
49.0	0.5	93.0	4.7	109.0	0.0	61.6	2.0	169.0	0.0	57.2	1.8
50.0	0.5	93.5	4.7	110.0	0.0	60.3	2.0	170.0	0.0	57.4	1.8
51.0	0.5	94.1	4.8	111.0	0.0	58.9	1.9	171.0	0.0	57.7	1.8
52.0	0.5	94.6	4.8	112.0	0.0	57.6	1.8	172.0	0.0	57.8	1.8
53.0	0.5	95.1	4.9	113.0	0.0	56.3	1.7	173.0	0.0	58.0	1.8
54.0	0.5	95.6	4.9	114.0	0.0	55.0	1.6	174.0	0.0	58.1	1.8
55.0	0.5	96.1	5.0	115.0	0.0	53.8	1.6	175.0	0.0	58.2	1.8
56.0	0.5	96.6	5.0	116.0	0.0	52.7	1.5	176.0	0.0	58.3	1.8
57.0	0.5	96.9	5.1	117.0	0.0	51.6	1.4	177.0	0.0	58.4	1.8
58.0	0.5	97.3	5.1	118.0	0.0	50.5	1.4	178.0	0.0	58.4	1.8
59.0	0.5	97.7	5.1	119.0	0.0	49.5	1.3	179.0	0.0	58.4	1.8

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	1.8	240.0	0.0	49.6	1.3	300.0	0.5	98.6	5.2
181.0	0.0	58.3	1.8	241.0	0.0	50.7	1.4	301.0	0.5	98.2	5.2
182.0	0.0	58.2	1.8	242.0	0.0	51.8	1.4	302.0	0.5	97.9	5.2
183.0	0.0	58.1	1.8	243.0	0.0	53.0	1.5	303.0	0.5	97.6	5.1
184.0	0.0	58.0	1.8	244.0	0.0	54.2	1.6	304.0	0.5	97.1	5.1
185.0	0.0	57.9	1.8	245.0	0.0	55.5	1.7	305.0	0.5	96.8	5.0
186.0	0.0	57.7	1.8	246.0	0.0	56.8	1.7	306.0	0.5	96.3	5.0
187.0	0.0	57.4	1.8	247.0	0.0	58.1	1.8	307.0	0.5	95.8	4.9
188.0	0.0	57.2	1.8	248.0	0.0	59.5	1.9	308.0	0.5	95.3	4.9
189.0	0.0	57.0	1.7	249.0	0.0	60.8	2.0	309.0	0.5	94.8	4.8
190.0	0.0	56.7	1.7	250.0	0.0	62.3	2.1	310.0	0.5	94.4	4.8
191.0	0.0	56.4	1.7	251.0	0.0	63.7	2.2	311.0	0.5	93.8	4.7
192.0	0.0	56.1	1.7	252.0	0.0	65.0	2.3	312.0	0.5	93.3	4.7
193.0	0.0	55.7	1.7	253.0	0.0	66.5	2.4	313.0	0.5	92.6	4.6
194.0	0.0	55.4	1.7	254.0	0.0	67.9	2.5	314.0	0.5	92.1	4.6
195.0	0.0	55.0	1.6	255.0	0.0	69.3	2.6	315.0	0.5	91.6	4.5
196.0	0.0	54.6	1.6	256.0	0.0	70.7	2.7	316.0	0.5	90.9	4.5
197.0	0.0	54.2	1.6	257.0	0.0	72.1	2.8	317.0	0.5	90.3	4.4
198.0	0.0	53.8	1.6	258.0	0.0	73.4	2.9	318.0	0.5	89.8	4.3
199.0	0.0	53.3	1.5	259.0	0.0	74.8	3.0	319.0	0.5	89.2	4.3
200.0	0.0	52.8	1.5	260.0	0.0	76.2	3.1	320.0	0.5	88.6	4.2
201.0	0.0	52.3	1.5	261.0	0.5	77.5	3.2	321.0	0.5	88.0	4.2
202.0	0.0	51.8	1.4	262.0	0.5	78.8	3.3	322.0	0.5	87.4	4.1
203.0	0.0	51.3	1.4	263.0	0.5	80.1	3.4	323.0	0.5	86.8	4.1
204.0	0.0	50.8	1.4	264.0	0.5	81.4	3.6	324.0	0.5	86.2	4.0
205.0	0.0	50.2	1.4	265.0	0.5	82.6	3.7	325.0	0.5	85.6	3.9
206.0	0.0	49.6	1.3	266.0	0.5	83.9	3.8	326.0	0.5	85.0	3.9
207.0	0.0	49.1	1.3	267.0	0.5	85.0	3.9	327.0	0.5	84.4	3.8
208.0	0.0	48.5	1.3	268.0	0.5	86.2	4.0	328.0	0.5	83.8	3.8
209.0	0.0	48.0	1.2	269.0	0.5	87.4	4.1	329.0	0.5	83.2	3.7
210.0	0.0	47.4	1.2	270.0	0.5	88.5	4.2	330.0	0.5	82.7	3.7
211.0	0.0	46.9	1.2	271.0	0.5	89.5	4.3	331.0	0.5	82.2	3.6
212.0	0.0	46.3	1.2	272.0	0.5	90.4	4.4	332.0	0.5	81.6	3.6
213.0	0.0	45.8	1.1	273.0	0.5	91.4	4.5	333.0	0.5	81.1	3.5
214.0	0.0	45.2	1.1	274.0	0.5	92.2	4.6	334.0	0.5	80.6	3.5
215.0	0.0	44.7	1.1	275.0	0.5	93.1	4.7	335.0	0.5	80.0	3.4
216.0	0.0	44.3	1.1	276.0	0.5	93.8	4.7	336.0	0.5	79.6	3.4
217.0	0.0	43.8	1.0	277.0	0.5	94.6	4.8	337.0	0.5	79.1	3.4
218.0	0.0	43.4	1.0	278.0	0.5	95.2	4.9	338.0	0.5	78.7	3.3
219.0	0.0	43.0	1.0	279.0	0.5	95.9	4.9	339.0	0.5	78.2	3.3
220.0	0.0	42.6	1.0	280.0	0.5	96.6	5.0	340.0	0.5	77.8	3.3
221.0	0.0	42.3	1.0	281.0	0.5	97.0	5.1	341.0	0.5	77.4	3.2
222.0	0.0	42.1	1.0	282.0	0.5	97.6	5.1	342.0	0.5	77.0	3.2
223.0	0.0	41.9	0.9	283.0	0.5	98.0	5.2	343.0	0.5	76.6	3.2
224.0	0.0	41.8	0.9	284.0	0.5	98.4	5.2	344.0	0.5	76.3	3.1
225.0	0.0	41.7	0.9	285.0	0.5	98.7	5.2	345.0	0.5	75.9	3.1
226.0	0.0	41.7	0.9	286.0	0.5	99.0	5.3	346.0	0.5	75.6	3.1
227.0	0.0	41.8	0.9	287.0	0.5	99.3	5.3	347.0	0.5	75.3	3.1
228.0	0.0	41.9	0.9	288.0	0.5	99.5	5.3	348.0	0.5	75.0	3.0
229.0	0.0	42.1	1.0	289.0	0.5	99.6	5.3	349.0	0.5	74.8	3.0
230.0	0.0	42.4	1.0	290.0	0.5	99.7	5.4	350.0	0.5	74.5	3.0
231.0	0.0	42.8	1.0	291.0	0.3	100.0	5.4	351.0	0.5	74.3	3.0
232.0	0.0	43.3	1.0	292.0	0.5	99.8	5.4	352.0	0.5	74.1	3.0
233.0	0.0	43.8	1.0	293.0	0.5	99.8	5.4	353.0	0.5	73.9	2.9
234.0	0.0	44.4	1.1	294.0	0.5	99.7	5.4	354.0	0.5	73.8	2.9
235.0	0.0	45.1	1.1	295.0	0.5	99.6	5.3	355.0	0.5	73.6	2.9
236.0	0.0	45.8	1.1	296.0	0.5	99.5	5.3	356.0	0.5	73.5	2.9
237.0	0.0	46.7	1.2	297.0	0.5	99.3	5.3	357.0	0.5	73.3	2.9
238.0	0.0	47.6	1.2	298.0	0.5	99.0	5.3	358.0	0.5	73.2	2.9
239.0	0.0	48.6	1.3	299.0	0.5	98.8	5.3	359.0	0.5	73.2	2.9

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	99.8	5.4	15.4	1.4	0.0	30.7	2.8	0.0
0.3	100.0	5.4	15.6	3.0	0.0	31.0	1.9	0.0
0.5	99.8	5.4	15.9	4.5	0.0	31.2	1.0	0.0
0.8	99.2	5.3	16.1	5.9	0.0	31.5	0.1	0.0
1.0	98.3	5.2	16.4	7.2	0.0	31.7	0.8	0.0
1.3	96.9	5.1	16.6	8.4	0.0	32.0	1.7	0.0
1.5	95.2	4.9	16.9	9.5	0.0	32.3	2.6	0.0
1.8	93.1	4.7	17.2	10.4	0.1	32.5	3.5	0.0
2.0	90.6	4.4	17.4	11.2	0.1	32.8	4.4	0.0
2.3	87.8	4.1	17.7	11.8	0.1	33.0	5.2	0.0
2.6	84.7	3.9	17.9	12.3	0.1	33.3	6.0	0.0
2.8	81.3	3.6	18.2	12.7	0.1	33.5	6.7	0.0
3.1	77.6	3.2	18.4	12.9	0.1	33.8	7.4	0.0
3.3	73.6	2.9	18.7	13.0	0.1	34.0	8.1	0.0
3.6	69.5	2.6	18.9	13.0	0.1	34.3	8.6	0.0
3.8	65.1	2.3	19.2	12.8	0.1	34.6	9.1	0.0
4.1	60.6	2.0	19.5	12.5	0.1	34.8	9.5	0.0
4.4	55.9	1.7	19.7	12.1	0.1	35.1	9.9	0.1
4.6	51.2	1.4	20.0	11.6	0.1	35.3	10.2	0.1
4.9	46.3	1.2	20.2	11.0	0.1	35.6	10.4	0.1
5.1	41.5	0.9	20.5	10.2	0.1	35.8	10.5	0.1
5.4	36.6	0.7	20.7	9.4	0.0	36.1	10.6	0.1
5.6	31.8	0.5	21.0	8.6	0.0	36.4	10.5	0.1
5.9	27.0	0.4	21.2	7.6	0.0	36.6	10.4	0.1
6.1	22.3	0.3	21.5	6.6	0.0	36.9	10.2	0.1
6.4	17.8	0.2	21.8	5.6	0.0	37.1	10.0	0.1
6.7	13.4	0.1	22.0	4.6	0.0	37.4	9.6	0.0
6.9	9.1	0.0	22.3	3.5	0.0	37.6	9.2	0.0
7.2	5.1	0.0	22.5	2.4	0.0	37.9	8.7	0.0
7.4	1.2	0.0	22.8	1.3	0.0	38.1	8.2	0.0
7.7	2.4	0.0	23.0	0.2	0.0	38.4	7.6	0.0
7.9	5.7	0.0	23.3	0.9	0.0	38.7	6.9	0.0
8.2	8.8	0.0	23.6	1.9	0.0	38.9	6.2	0.0
8.4	11.5	0.1	23.8	3.0	0.0	39.2	5.5	0.0
8.7	14.0	0.1	24.1	3.9	0.0	39.4	4.7	0.0
9.0	16.2	0.1	24.3	4.8	0.0	39.7	3.9	0.0
9.2	18.1	0.2	24.6	5.7	0.0	39.9	3.0	0.0
9.5	19.7	0.2	24.8	6.5	0.0	40.2	2.1	0.0
9.7	21.0	0.2	25.1	7.2	0.0	40.4	1.2	0.0
10.0	22.0	0.3	25.3	7.9	0.0	40.7	0.3	0.0
10.2	22.6	0.3	25.6	8.5	0.0	41.0	0.6	0.0
10.5	23.0	0.3	25.9	9.0	0.0	41.2	1.5	0.0
10.8	23.2	0.3	26.1	9.4	0.0	41.5	2.3	0.0
11.0	23.0	0.3	26.4	9.7	0.1	41.7	3.2	0.0
11.3	22.7	0.3	26.6	9.9	0.1	42.0	4.1	0.0
11.5	22.0	0.3	26.9	10.1	0.1	42.2	4.9	0.0
11.8	21.2	0.2	27.1	10.1	0.1	42.5	5.7	0.0
12.0	20.2	0.2	27.4	10.1	0.1	42.8	6.4	0.0
12.3	19.0	0.2	27.6	10.0	0.1	43.0	7.1	0.0
12.5	17.7	0.2	27.9	9.8	0.1	43.3	7.8	0.0
12.8	16.2	0.1	28.2	9.5	0.0	43.5	8.4	0.0
13.1	14.6	0.1	28.4	9.1	0.0	43.8	9.0	0.0
13.3	12.9	0.1	28.7	8.6	0.0	44.0	9.5	0.0
13.6	11.1	0.1	28.9	8.1	0.0	44.3	9.9	0.1
13.8	9.3	0.0	29.2	7.5	0.0	44.5	10.3	0.1
14.1	7.5	0.0	29.4	6.9	0.0	44.8	10.6	0.1
14.3	5.7	0.0	29.7	6.1	0.0	45.1	10.9	0.1
14.6	3.9	0.0	30.0	5.4	0.0	45.3	11.1	0.1
14.8	2.1	0.0	30.2	4.6	0.0	45.6	11.2	0.1
15.1	0.3	0.0	30.5	3.7	0.0	45.8	11.3	0.1

Vertical diagram at an azimuth of 292.5°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
46.1	11.3	0.1	61.4	6.7	0.0	76.8	5.1	0.0
46.3	11.2	0.1	61.7	6.4	0.0	77.1	5.1	0.0
46.6	11.1	0.1	62.0	6.0	0.0	77.3	5.1	0.0
46.8	10.9	0.1	62.2	5.7	0.0	77.6	5.0	0.0
47.1	10.7	0.1	62.5	5.3	0.0	77.8	5.0	0.0
47.4	10.3	0.1	62.7	4.9	0.0	78.1	5.0	0.0
47.6	10.0	0.1	63.0	4.6	0.0	78.3	5.0	0.0
47.9	9.6	0.0	63.2	4.2	0.0	78.6	5.0	0.0
48.1	9.1	0.0	63.5	3.8	0.0	78.8	5.0	0.0
48.4	8.6	0.0	63.7	3.4	0.0	79.1	5.0	0.0
48.6	8.1	0.0	64.0	3.0	0.0	79.4	4.9	0.0
48.9	7.5	0.0	64.3	2.6	0.0	79.6	4.9	0.0
49.2	6.9	0.0	64.5	2.3	0.0	79.9	4.9	0.0
49.4	6.2	0.0	64.8	1.9	0.0	80.1	4.9	0.0
49.7	5.6	0.0	65.0	1.5	0.0	80.4	4.9	0.0
49.9	4.9	0.0	65.3	1.2	0.0	80.6	4.9	0.0
50.2	4.2	0.0	65.5	0.8	0.0	80.9	4.8	0.0
50.4	3.5	0.0	65.8	0.5	0.0	81.2	4.8	0.0
50.7	2.7	0.0	66.0	0.2	0.0	81.4	4.8	0.0
50.9	2.0	0.0	66.3	0.2	0.0	81.7	4.8	0.0
51.2	1.3	0.0	66.6	0.5	0.0	81.9	4.8	0.0
51.5	0.5	0.0	66.8	0.8	0.0	82.2	4.8	0.0
51.7	0.2	0.0	67.1	1.1	0.0	82.4	4.8	0.0
52.0	0.9	0.0	67.3	1.3	0.0	82.7	4.8	0.0
52.2	1.6	0.0	67.6	1.6	0.0	82.9	4.8	0.0
52.5	2.3	0.0	67.8	1.9	0.0	83.2	4.7	0.0
52.7	3.0	0.0	68.1	2.1	0.0	83.5	4.7	0.0
53.0	3.6	0.0	68.4	2.4	0.0	83.7	4.7	0.0
53.2	4.3	0.0	68.6	2.6	0.0	84.0	4.7	0.0
53.5	4.9	0.0	68.9	2.8	0.0	84.2	4.7	0.0
53.8	5.4	0.0	69.1	3.0	0.0	84.5	4.7	0.0
54.0	6.0	0.0	69.4	3.2	0.0	84.7	4.7	0.0
54.3	6.5	0.0	69.6	3.4	0.0	85.0	4.7	0.0
54.5	6.9	0.0	69.9	3.5	0.0	85.2	4.7	0.0
54.8	7.4	0.0	70.1	3.7	0.0	85.5	4.7	0.0
55.0	7.8	0.0	70.4	3.8	0.0	85.8	4.7	0.0
55.3	8.1	0.0	70.7	4.0	0.0	86.0	4.7	0.0
55.6	8.4	0.0	70.9	4.1	0.0	86.3	4.7	0.0
55.8	8.7	0.0	71.2	4.2	0.0	86.5	4.7	0.0
56.1	9.0	0.0	71.4	4.3	0.0	86.8	4.7	0.0
56.3	9.2	0.0	71.7	4.4	0.0	87.0	4.7	0.0
56.6	9.4	0.0	71.9	4.5	0.0	87.3	4.7	0.0
56.8	9.5	0.0	72.2	4.6	0.0	87.6	4.8	0.0
57.1	9.6	0.0	72.4	4.7	0.0	87.8	4.8	0.0
57.3	9.7	0.1	72.7	4.7	0.0	88.1	4.8	0.0
57.6	9.7	0.1	73.0	4.8	0.0	88.3	4.8	0.0
57.9	9.7	0.1	73.2	4.9	0.0	88.6	4.8	0.0
58.1	9.6	0.0	73.5	4.9	0.0	88.8	4.8	0.0
58.4	9.6	0.0	73.7	4.9	0.0	89.1	4.8	0.0
58.6	9.5	0.0	74.0	5.0	0.0	89.3	4.8	0.0
58.9	9.3	0.0	74.2	5.0	0.0	89.6	4.9	0.0
59.1	9.2	0.0	74.5	5.0	0.0	89.9	4.9	0.0
59.4	9.0	0.0	74.8	5.1	0.0	90.1	3.1	0.0
59.6	8.8	0.0	75.0	5.1	0.0	90.4	3.1	0.0
59.9	8.5	0.0	75.3	5.1	0.0	90.6	3.1	0.0
60.2	8.3	0.0	75.5	5.1	0.0	90.9	3.1	0.0
60.4	8.0	0.0	75.8	5.1	0.0	91.1	3.1	0.0
60.7	7.7	0.0	76.0	5.1	0.0	91.4	3.1	0.0
60.9	7.4	0.0	76.3	5.1	0.0	91.6	3.1	0.0
61.2	7.1	0.0	76.5	5.1	0.0	91.9	3.1	0.0