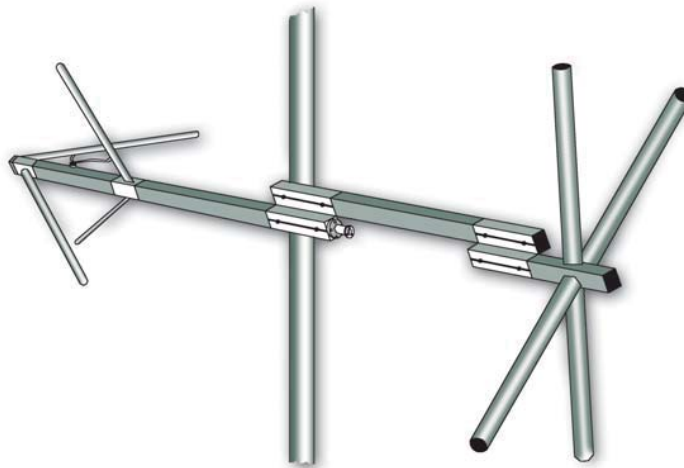


## 12 Bay TFC2K-D 98.1MHz

November 2015



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Site Name: 12BAYS

### 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

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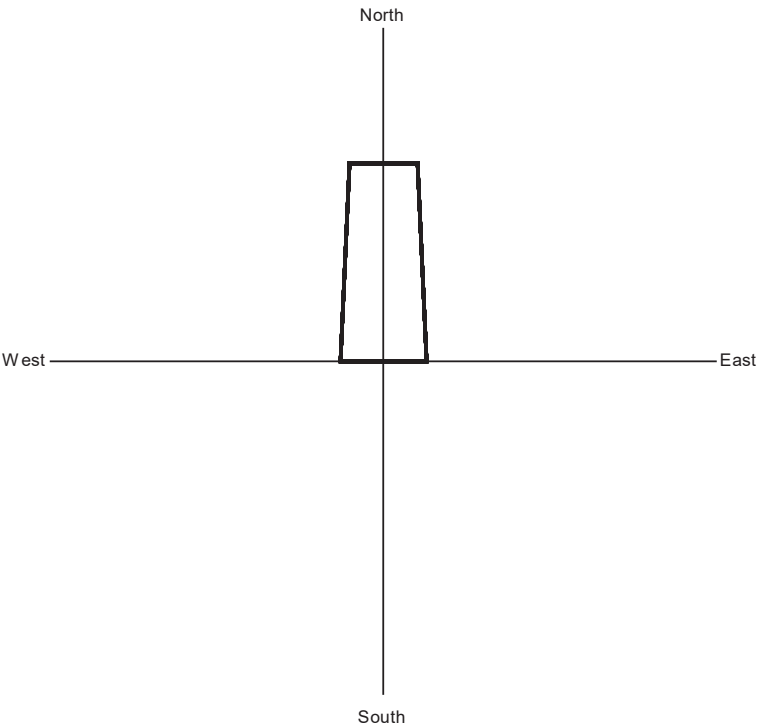
### Information about antennas used in the System

	Antenna
Manufacturer	Telecom
Antenna model	TFC2K
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

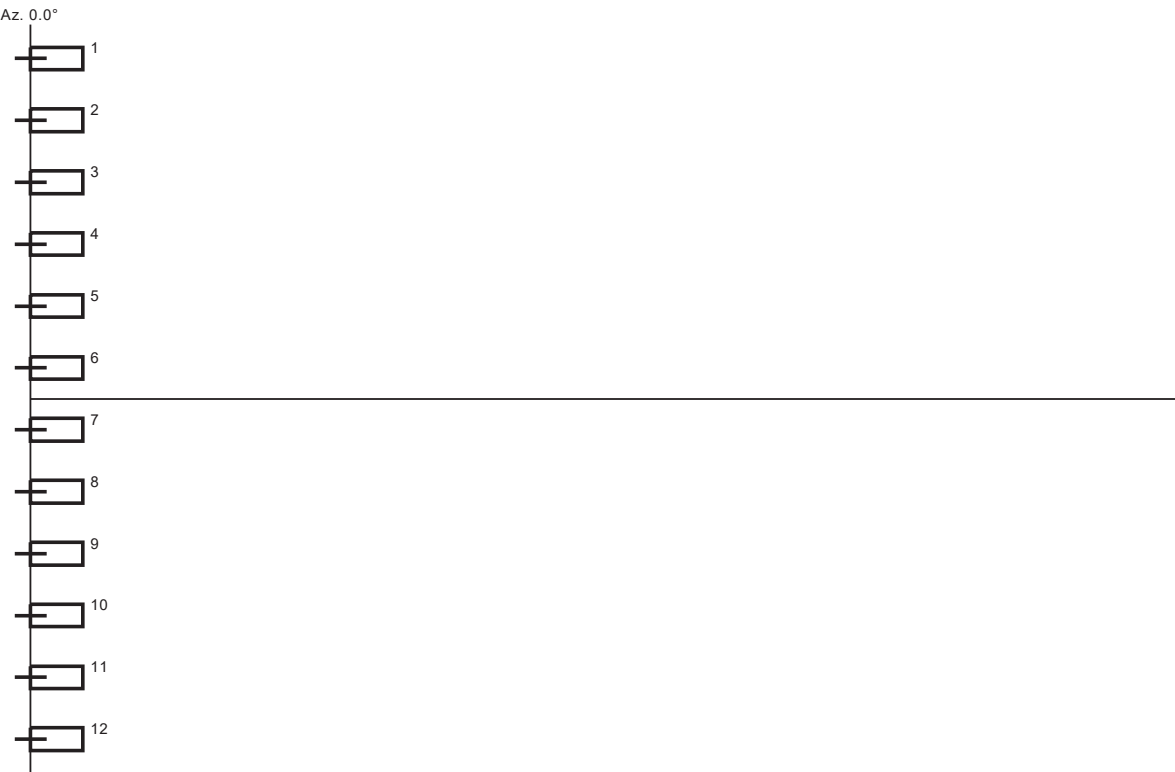
## Geometrical and electrical data of antenna System

	<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	8.333	0	0	0 +0.0	14.30	0.0	0.0	1	1	0.0	0.0
2	8.333	0	0	0 +0.0	11.70	0.0	0.0	1	1	0.0	0.0
3	8.333	0	0	0 +0.0	9.10	0.0	0.0	1	1	0.0	0.0
4	8.333	0	0	0 +0.0	6.50	0.0	0.0	1	1	0.0	0.0
5	8.333	0	0	0 +0.0	3.90	0.0	0.0	1	1	0.0	0.0
6	8.333	0	0	0 +0.0	1.30	0.0	0.0	1	1	0.0	0.0
7	8.333	0	0	0 +0.0	-1.30	0.0	0.0	1	1	0.0	0.0
8	8.333	0	0	0 +0.0	-3.90	0.0	0.0	1	1	0.0	0.0
9	8.333	0	0	0 +0.0	-6.50	0.0	0.0	1	1	0.0	0.0
10	8.333	0	0	0 +0.0	-9.10	0.0	0.0	1	1	0.0	0.0
11	8.333	0	0	0 +0.0	-11.70	0.0	0.0	1	1	0.0	0.0
12	8.333	0	0	0 +0.0	-14.30	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	12
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)	9.10
G. Distribution losses (dB)	0.00
H. Nominal max gain F - G (dBd)	9.10
I. Compensation losses (dB)	0.55
J. Effec. max gain H - I (dBd)	8.55
K. Effec. max gain (times)	7.16
L. Effec. max power E * K (KW)	0.0072
M. Max power depr. angle (°)	0.1
N. Max power az. angle (°)	291

### Diagram in dBK calculated at horizon

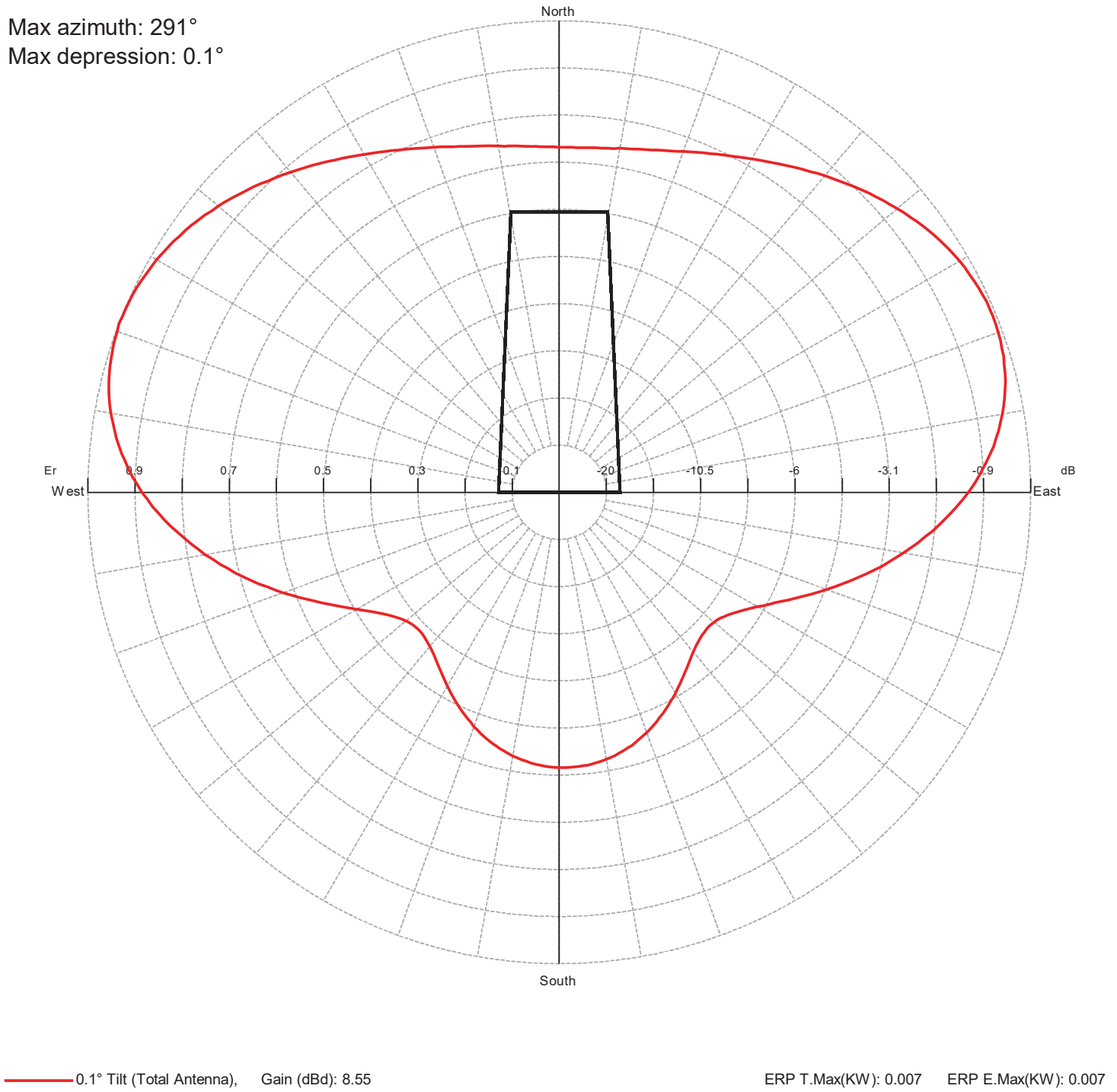
Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	-24.2	90	-22.7	180	-26.1	270	-22.5
10	-24.1	100	-24.1	190	-26.4	280	-21.7
20	-23.7	110	-25.8	200	-27.0	290	-21.5
30	-23.2	120	-27.7	210	-27.9	300	-21.6
40	-22.6	130	-28.8	220	-28.8	310	-21.9
50	-22.0	140	-28.5	230	-28.9	320	-22.5
60	-21.6	150	-27.6	240	-27.5	330	-23.1
70	-21.5	160	-26.8	250	-25.6	340	-23.6
80	-21.9	170	-26.3	260	-23.8	350	-24.0

### 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	-24.2	90	-22.7	180	-26.1	270	-22.5
10	-24.1	100	-24.1	190	-26.4	280	-21.7
20	-23.7	110	-25.8	200	-27.0	290	-21.5
30	-23.2	120	-27.7	210	-27.9	300	-21.6
40	-22.6	130	-28.8	220	-28.8	310	-21.9
50	-22.0	140	-28.5	230	-28.9	320	-22.5
60	-21.6	150	-27.6	240	-27.5	330	-23.1
70	-21.5	160	-26.8	250	-25.6	340	-23.6
80	-21.9	170	-26.3	260	-23.8	350	-24.0

Horizontal diagram of Maxima

Max azimuth: 291°  
Max depression: 0.1°



## Horizontal diagram of Maxima

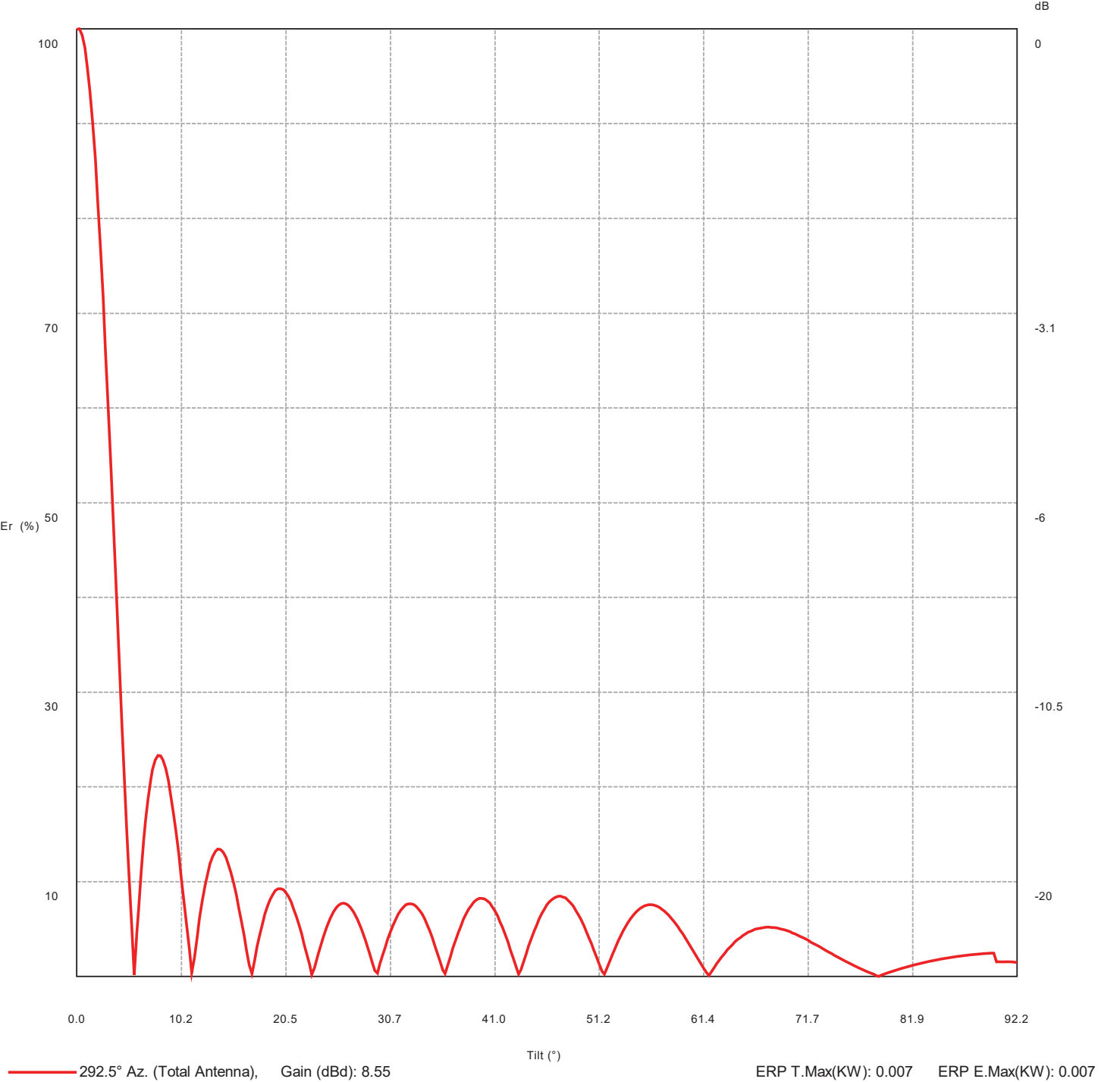
Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)
0.0	0.0	73.2	3.8	60.0	0.0	98.1	6.9	120.0	0.0	48.6	1.7
1.0	0.0	73.2	3.8	61.0	0.0	98.3	6.9	121.0	0.0	47.7	1.6
2.0	0.0	73.2	3.8	62.0	0.0	98.5	7.0	122.0	0.0	46.9	1.6
3.0	0.0	73.2	3.8	63.0	0.0	98.8	7.0	123.0	0.0	46.1	1.5
4.0	0.0	73.3	3.8	64.0	0.0	99.0	7.0	124.0	0.0	45.4	1.5
5.0	0.0	73.4	3.9	65.0	0.0	99.1	7.0	125.0	0.0	44.8	1.4
6.0	0.0	73.5	3.9	66.0	0.0	99.2	7.0	126.0	0.0	44.3	1.4
7.0	0.0	73.5	3.9	67.0	0.0	99.2	7.0	127.0	0.0	43.8	1.4
8.0	0.0	73.7	3.9	68.0	0.0	99.2	7.0	128.0	0.0	43.4	1.3
9.0	0.0	73.8	3.9	69.0	0.0	99.2	7.0	129.0	0.0	43.1	1.3
10.0	0.0	74.1	3.9	70.0	0.0	99.1	7.0	130.0	0.0	42.9	1.3
11.0	0.0	74.2	3.9	71.0	0.0	99.0	7.0	131.0	0.0	42.7	1.3
12.0	0.0	74.4	4.0	72.0	0.0	98.8	7.0	132.0	0.0	42.6	1.3
13.0	0.0	74.7	4.0	73.0	0.0	98.5	7.0	133.0	0.0	42.6	1.3
14.0	0.0	74.9	4.0	74.0	0.0	98.2	6.9	134.0	0.0	42.7	1.3
15.0	0.0	75.2	4.0	75.0	0.0	97.9	6.9	135.0	0.0	42.8	1.3
16.0	0.0	75.5	4.1	76.0	0.0	97.5	6.8	136.0	0.0	43.0	1.3
17.0	0.0	75.8	4.1	77.0	0.0	97.1	6.7	137.0	0.0	43.3	1.3
18.0	0.0	76.1	4.2	78.0	0.0	96.6	6.7	138.0	0.0	43.5	1.4
19.0	0.0	76.5	4.2	79.0	0.0	96.1	6.6	139.0	0.0	43.9	1.4
20.0	0.0	76.9	4.2	80.0	0.0	95.4	6.5	140.0	0.0	44.2	1.4
21.0	0.0	77.3	4.3	81.0	0.0	94.7	6.4	141.0	0.0	44.6	1.4
22.0	0.0	77.7	4.3	82.0	0.0	94.1	6.3	142.0	0.0	45.1	1.5
23.0	0.0	78.2	4.4	83.0	0.0	93.3	6.2	143.0	0.0	45.6	1.5
24.0	0.0	78.6	4.4	84.0	0.0	92.6	6.1	144.0	0.0	46.0	1.5
25.0	0.0	79.1	4.5	85.0	0.0	91.7	6.0	145.0	0.0	46.6	1.6
26.0	0.0	79.5	4.5	86.0	0.0	90.8	5.9	146.0	0.0	47.1	1.6
27.0	0.0	80.0	4.6	87.0	0.0	89.9	5.8	147.0	0.0	47.6	1.6
28.0	0.0	80.6	4.6	88.0	0.0	88.8	5.7	148.0	0.0	48.1	1.7
29.0	0.0	81.1	4.7	89.0	0.0	87.8	5.5	149.0	0.0	48.7	1.7
30.0	0.0	81.7	4.8	90.0	0.0	86.8	5.4	150.0	0.0	49.2	1.7
31.0	0.0	82.1	4.8	91.0	0.0	85.6	5.2	151.0	0.0	49.8	1.8
32.0	0.0	82.7	4.9	92.0	0.0	84.4	5.1	152.0	0.0	50.3	1.8
33.0	0.0	83.3	5.0	93.0	0.0	83.3	5.0	153.0	0.0	50.8	1.9
34.0	0.0	84.0	5.0	94.0	0.0	82.0	4.8	154.0	0.0	51.4	1.9
35.0	0.0	84.5	5.1	95.0	0.0	80.8	4.7	155.0	0.0	51.9	1.9
36.0	0.0	85.1	5.2	96.0	0.0	79.5	4.5	156.0	0.0	52.3	2.0
37.0	0.0	85.7	5.3	97.0	0.0	78.2	4.4	157.0	0.0	52.9	2.0
38.0	0.0	86.3	5.3	98.0	0.0	76.8	4.2	158.0	0.0	53.3	2.0
39.0	0.0	87.0	5.4	99.0	0.0	75.5	4.1	159.0	0.0	53.8	2.1
40.0	0.0	87.6	5.5	100.0	0.0	74.1	3.9	160.0	0.0	54.2	2.1
41.0	0.0	88.2	5.6	101.0	0.0	72.7	3.8	161.0	0.0	54.6	2.1
42.0	0.0	88.8	5.7	102.0	0.0	71.4	3.7	162.0	0.0	55.1	2.2
43.0	0.0	89.4	5.7	103.0	0.0	70.1	3.5	163.0	0.0	55.5	2.2
44.0	0.0	90.1	5.8	104.0	0.0	68.7	3.4	164.0	0.0	55.8	2.2
45.0	0.0	90.7	5.9	105.0	0.0	67.2	3.2	165.0	0.0	56.1	2.3
46.0	0.0	91.3	6.0	106.0	0.0	65.8	3.1	166.0	0.0	56.5	2.3
47.0	0.0	91.8	6.0	107.0	0.0	64.4	3.0	167.0	0.0	56.8	2.3
48.0	0.0	92.5	6.1	108.0	0.0	63.0	2.8	168.0	0.0	57.1	2.3
49.0	0.0	93.0	6.2	109.0	0.0	61.7	2.7	169.0	0.0	57.3	2.3
50.0	0.0	93.6	6.3	110.0	0.0	60.3	2.6	170.0	0.0	57.5	2.4
51.0	0.0	94.2	6.4	111.0	0.0	58.9	2.5	171.0	0.0	57.7	2.4
52.0	0.0	94.6	6.4	112.0	0.0	57.6	2.4	172.0	0.0	57.9	2.4
53.0	0.0	95.2	6.5	113.0	0.0	56.4	2.3	173.0	0.0	58.0	2.4
54.0	0.0	95.6	6.5	114.0	0.0	55.1	2.2	174.0	0.0	58.2	2.4
55.0	0.0	96.2	6.6	115.0	0.0	53.9	2.1	175.0	0.0	58.3	2.4
56.0	0.0	96.6	6.7	116.0	0.0	52.8	2.0	176.0	0.0	58.3	2.4
57.0	0.0	97.0	6.7	117.0	0.0	51.6	1.9	177.0	0.0	58.4	2.4
58.0	0.0	97.4	6.8	118.0	0.0	50.5	1.8	178.0	0.0	58.4	2.4
59.0	0.0	97.7	6.8	119.0	0.0	49.5	1.8	179.0	0.0	58.4	2.4

## 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	2.4	240.0	0.0	49.6	1.8	300.0	0.0	98.6	7.0
181.0	0.0	58.4	2.4	241.0	0.0	50.7	1.8	301.0	0.0	98.3	6.9
182.0	0.0	58.3	2.4	242.0	0.0	51.8	1.9	302.0	0.0	98.0	6.9
183.0	0.0	58.1	2.4	243.0	0.0	53.0	2.0	303.0	0.0	97.6	6.8
184.0	0.0	58.1	2.4	244.0	0.0	54.3	2.1	304.0	0.0	97.2	6.8
185.0	0.0	57.9	2.4	245.0	0.0	55.5	2.2	305.0	0.0	96.8	6.7
186.0	0.0	57.7	2.4	246.0	0.0	56.8	2.3	306.0	0.0	96.4	6.7
187.0	0.0	57.5	2.4	247.0	0.0	58.2	2.4	307.0	0.0	95.8	6.6
188.0	0.0	57.3	2.3	248.0	0.0	59.5	2.5	308.0	0.0	95.4	6.5
189.0	0.0	57.1	2.3	249.0	0.0	60.9	2.7	309.0	0.0	94.9	6.4
190.0	0.0	56.8	2.3	250.0	0.0	62.3	2.8	310.0	0.0	94.4	6.4
191.0	0.0	56.5	2.3	251.0	0.0	63.7	2.9	311.0	0.0	93.9	6.3
192.0	0.0	56.1	2.3	252.0	0.0	65.1	3.0	312.0	0.0	93.3	6.2
193.0	0.0	55.8	2.2	253.0	0.0	66.6	3.2	313.0	0.0	92.7	6.2
194.0	0.0	55.4	2.2	254.0	0.0	68.0	3.3	314.0	0.0	92.2	6.1
195.0	0.0	55.1	2.2	255.0	0.0	69.4	3.4	315.0	0.0	91.6	6.0
196.0	0.0	54.7	2.1	256.0	0.0	70.8	3.6	316.0	0.0	91.0	5.9
197.0	0.0	54.2	2.1	257.0	0.0	72.1	3.7	317.0	0.0	90.4	5.9
198.0	0.0	53.8	2.1	258.0	0.0	73.5	3.9	318.0	0.0	89.9	5.8
199.0	0.0	53.3	2.0	259.0	0.0	74.9	4.0	319.0	0.0	89.2	5.7
200.0	0.0	52.9	2.0	260.0	0.0	76.2	4.2	320.0	0.0	88.6	5.6
201.0	0.0	52.3	2.0	261.0	0.0	77.5	4.3	321.0	0.0	88.0	5.5
202.0	0.0	51.8	1.9	262.0	0.0	78.9	4.5	322.0	0.0	87.4	5.5
203.0	0.0	51.3	1.9	263.0	0.0	80.1	4.6	323.0	0.0	86.8	5.4
204.0	0.0	50.8	1.8	264.0	0.0	81.4	4.7	324.0	0.0	86.2	5.3
205.0	0.0	50.2	1.8	265.0	0.0	82.7	4.9	325.0	0.0	85.6	5.3
206.0	0.0	49.7	1.8	266.0	0.0	83.9	5.0	326.0	0.0	85.0	5.2
207.0	0.0	49.1	1.7	267.0	0.0	85.1	5.2	327.0	0.0	84.4	5.1
208.0	0.0	48.6	1.7	268.0	0.0	86.3	5.3	328.0	0.0	83.9	5.0
209.0	0.0	48.0	1.7	269.0	0.0	87.4	5.5	329.0	0.0	83.3	5.0
210.0	0.0	47.5	1.6	270.0	0.0	88.5	5.6	330.0	0.0	82.7	4.9
211.0	0.0	46.9	1.6	271.0	0.0	89.6	5.7	331.0	0.0	82.2	4.8
212.0	0.0	46.4	1.5	272.0	0.0	90.5	5.9	332.0	0.0	81.7	4.8
213.0	0.0	45.8	1.5	273.0	0.0	91.4	6.0	333.0	0.0	81.1	4.7
214.0	0.0	45.3	1.5	274.0	0.0	92.3	6.1	334.0	0.0	80.6	4.7
215.0	0.0	44.8	1.4	275.0	0.0	93.1	6.2	335.0	0.0	80.1	4.6
216.0	0.0	44.3	1.4	276.0	0.0	93.9	6.3	336.0	0.0	79.6	4.5
217.0	0.0	43.9	1.4	277.0	0.0	94.6	6.4	337.0	0.0	79.2	4.5
218.0	0.0	43.4	1.3	278.0	0.0	95.3	6.5	338.0	0.0	78.7	4.4
219.0	0.0	43.1	1.3	279.0	0.0	96.0	6.6	339.0	0.0	78.3	4.4
220.0	0.0	42.7	1.3	280.0	0.0	96.6	6.7	340.0	0.0	77.8	4.3
221.0	0.0	42.4	1.3	281.0	0.0	97.1	6.7	341.0	0.0	77.5	4.3
222.0	0.0	42.1	1.3	282.0	0.0	97.6	6.8	342.0	0.0	77.0	4.2
223.0	0.0	42.0	1.3	283.0	0.0	98.1	6.9	343.0	0.0	76.7	4.2
224.0	0.0	41.8	1.3	284.0	0.0	98.4	6.9	344.0	0.0	76.3	4.2
225.0	0.0	41.8	1.2	285.0	0.0	98.8	7.0	345.0	0.0	76.0	4.1
226.0	0.0	41.7	1.2	286.0	0.0	99.1	7.0	346.0	0.0	75.6	4.1
227.0	0.0	41.8	1.3	287.0	0.0	99.3	7.1	347.0	0.0	75.3	4.1
228.0	0.0	42.0	1.3	288.0	0.0	99.6	7.1	348.0	0.0	75.1	4.0
229.0	0.0	42.2	1.3	289.0	0.0	99.7	7.1	349.0	0.0	74.8	4.0
230.0	0.0	42.5	1.3	290.0	0.0	99.8	7.1	350.0	0.0	74.6	4.0
231.0	0.0	42.9	1.3	291.0	0.1	100.0	7.2	351.0	0.0	74.3	4.0
232.0	0.0	43.3	1.3	292.0	0.0	99.9	7.1	352.0	0.0	74.1	3.9
233.0	0.0	43.9	1.4	293.0	0.0	99.9	7.1	353.0	0.0	74.0	3.9
234.0	0.0	44.5	1.4	294.0	0.0	99.8	7.1	354.0	0.0	73.8	3.9
235.0	0.0	45.1	1.5	295.0	0.0	99.7	7.1	355.0	0.0	73.6	3.9
236.0	0.0	45.9	1.5	296.0	0.0	99.6	7.1	356.0	0.0	73.5	3.9
237.0	0.0	46.7	1.6	297.0	0.0	99.3	7.1	357.0	0.0	73.4	3.9
238.0	0.0	47.6	1.6	298.0	0.0	99.1	7.0	358.0	0.0	73.3	3.8
239.0	0.0	48.6	1.7	299.0	0.0	98.9	7.0	359.0	0.0	73.3	3.8



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	100.0	7.1	15.4	9.8	0.1	30.7	4.7	0.0
0.3	100.0	7.2	15.6	8.6	0.1	31.0	5.4	0.0
0.5	99.4	7.1	15.9	7.2	0.0	31.2	6.0	0.0
0.8	98.1	6.9	16.1	5.8	0.0	31.5	6.5	0.0
1.0	96.1	6.6	16.4	4.3	0.0	31.7	7.0	0.0
1.3	93.4	6.2	16.6	2.7	0.0	32.0	7.3	0.0
1.5	90.1	5.8	16.9	1.2	0.0	32.3	7.5	0.0
1.8	86.3	5.3	17.2	0.3	0.0	32.5	7.6	0.0
2.0	81.9	4.8	17.4	1.7	0.0	32.8	7.7	0.0
2.3	77.0	4.2	17.7	3.1	0.0	33.0	7.6	0.0
2.6	71.7	3.7	17.9	4.4	0.0	33.3	7.3	0.0
2.8	66.0	3.1	18.2	5.5	0.0	33.5	7.0	0.0
3.1	60.0	2.6	18.4	6.5	0.0	33.8	6.6	0.0
3.3	53.8	2.1	18.7	7.4	0.0	34.0	6.1	0.0
3.6	47.5	1.6	18.9	8.1	0.0	34.3	5.5	0.0
3.8	41.1	1.2	19.2	8.7	0.1	34.6	4.8	0.0
4.1	34.6	0.9	19.5	9.0	0.1	34.8	4.1	0.0
4.4	28.3	0.6	19.7	9.2	0.1	35.1	3.3	0.0
4.6	22.0	0.3	20.0	9.3	0.1	35.3	2.4	0.0
4.9	16.0	0.2	20.2	9.1	0.1	35.6	1.6	0.0
5.1	10.3	0.1	20.5	8.8	0.1	35.8	0.7	0.0
5.4	4.9	0.0	20.7	8.4	0.1	36.1	0.3	0.0
5.6	0.1	0.0	21.0	7.8	0.0	36.4	1.2	0.0
5.9	4.7	0.0	21.2	7.1	0.0	36.6	2.1	0.0
6.1	8.9	0.1	21.5	6.3	0.0	36.9	3.0	0.0
6.4	12.5	0.1	21.8	5.4	0.0	37.1	3.8	0.0
6.7	15.6	0.2	22.0	4.5	0.0	37.4	4.6	0.0
6.9	18.2	0.2	22.3	3.4	0.0	37.6	5.3	0.0
7.2	20.3	0.3	22.5	2.4	0.0	37.9	6.0	0.0
7.4	21.8	0.3	22.8	1.3	0.0	38.1	6.6	0.0
7.7	22.8	0.4	23.0	0.2	0.0	38.4	7.1	0.0
7.9	23.3	0.4	23.3	0.9	0.0	38.7	7.5	0.0
8.2	23.3	0.4	23.6	1.9	0.0	38.9	7.8	0.0
8.4	22.8	0.4	23.8	2.9	0.0	39.2	8.1	0.0
8.7	21.9	0.3	24.1	3.9	0.0	39.4	8.2	0.0
9.0	20.7	0.3	24.3	4.7	0.0	39.7	8.2	0.0
9.2	19.1	0.3	24.6	5.5	0.0	39.9	8.2	0.0
9.5	17.2	0.2	24.8	6.1	0.0	40.2	8.0	0.0
9.7	15.1	0.2	25.1	6.7	0.0	40.4	7.7	0.0
10.0	12.8	0.1	25.3	7.1	0.0	40.7	7.4	0.0
10.2	10.4	0.1	25.6	7.4	0.0	41.0	6.9	0.0
10.5	7.9	0.0	25.9	7.6	0.0	41.2	6.4	0.0
10.8	5.3	0.0	26.1	7.7	0.0	41.5	5.8	0.0
11.0	2.8	0.0	26.4	7.6	0.0	41.7	5.1	0.0
11.3	0.4	0.0	26.6	7.5	0.0	42.0	4.4	0.0
11.5	2.0	0.0	26.9	7.2	0.0	42.2	3.6	0.0
11.8	4.1	0.0	27.1	6.7	0.0	42.5	2.8	0.0
12.0	6.2	0.0	27.4	6.2	0.0	42.8	1.9	0.0
12.3	8.0	0.0	27.6	5.6	0.0	43.0	1.1	0.0
12.5	9.5	0.1	27.9	4.9	0.0	43.3	0.2	0.0
12.8	10.8	0.1	28.2	4.2	0.0	43.5	0.7	0.0
13.1	11.9	0.1	28.4	3.3	0.0	43.8	1.5	0.0
13.3	12.7	0.1	28.7	2.4	0.0	44.0	2.4	0.0
13.6	13.2	0.1	28.9	1.5	0.0	44.3	3.2	0.0
13.8	13.4	0.1	29.2	0.6	0.0	44.5	4.0	0.0
14.1	13.4	0.1	29.4	0.3	0.0	44.8	4.7	0.0
14.3	13.1	0.1	29.7	1.3	0.0	45.1	5.4	0.0
14.6	12.6	0.1	30.0	2.2	0.0	45.3	6.1	0.0
14.8	11.8	0.1	30.2	3.1	0.0	45.6	6.6	0.0
15.1	10.9	0.1	30.5	3.9	0.0	45.8	7.1	0.0

### Vertical diagram at an azimuth of 292.5°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
46.1	7.5	0.0	61.4	0.8	0.0	76.8	0.8	0.0
46.3	7.9	0.0	61.7	0.4	0.0	77.1	0.7	0.0
46.6	8.1	0.0	62.0	0.1	0.0	77.3	0.6	0.0
46.8	8.3	0.0	62.2	0.5	0.0	77.6	0.4	0.0
47.1	8.4	0.1	62.5	0.9	0.0	77.8	0.3	0.0
47.4	8.5	0.1	62.7	1.3	0.0	78.1	0.2	0.0
47.6	8.4	0.1	63.0	1.7	0.0	78.3	0.1	0.0
47.9	8.3	0.0	63.2	2.1	0.0	78.6	0.0	0.0
48.1	8.0	0.0	63.5	2.4	0.0	78.8	0.1	0.0
48.4	7.7	0.0	63.7	2.8	0.0	79.1	0.2	0.0
48.6	7.4	0.0	64.0	3.1	0.0	79.4	0.3	0.0
48.9	7.0	0.0	64.3	3.4	0.0	79.6	0.4	0.0
49.2	6.5	0.0	64.5	3.6	0.0	79.9	0.5	0.0
49.4	6.0	0.0	64.8	3.9	0.0	80.1	0.6	0.0
49.7	5.4	0.0	65.0	4.1	0.0	80.4	0.7	0.0
49.9	4.8	0.0	65.3	4.3	0.0	80.6	0.8	0.0
50.2	4.1	0.0	65.5	4.5	0.0	80.9	0.9	0.0
50.4	3.4	0.0	65.8	4.6	0.0	81.2	0.9	0.0
50.7	2.7	0.0	66.0	4.8	0.0	81.4	1.0	0.0
50.9	2.0	0.0	66.3	4.9	0.0	81.7	1.1	0.0
51.2	1.3	0.0	66.6	5.0	0.0	81.9	1.2	0.0
51.5	0.5	0.0	66.8	5.1	0.0	82.2	1.2	0.0
51.7	0.2	0.0	67.1	5.1	0.0	82.4	1.3	0.0
52.0	0.9	0.0	67.3	5.2	0.0	82.7	1.4	0.0
52.2	1.6	0.0	67.6	5.2	0.0	82.9	1.4	0.0
52.5	2.3	0.0	67.8	5.2	0.0	83.2	1.5	0.0
52.7	3.0	0.0	68.1	5.2	0.0	83.5	1.6	0.0
53.0	3.6	0.0	68.4	5.1	0.0	83.7	1.6	0.0
53.2	4.2	0.0	68.6	5.1	0.0	84.0	1.7	0.0
53.5	4.7	0.0	68.9	5.0	0.0	84.2	1.7	0.0
53.8	5.2	0.0	69.1	5.0	0.0	84.5	1.8	0.0
54.0	5.7	0.0	69.4	4.9	0.0	84.7	1.8	0.0
54.3	6.1	0.0	69.6	4.8	0.0	85.0	1.9	0.0
54.5	6.5	0.0	69.9	4.7	0.0	85.2	1.9	0.0
54.8	6.8	0.0	70.1	4.6	0.0	85.5	2.0	0.0
55.0	7.0	0.0	70.4	4.5	0.0	85.8	2.0	0.0
55.3	7.2	0.0	70.7	4.3	0.0	86.0	2.1	0.0
55.6	7.4	0.0	70.9	4.2	0.0	86.3	2.1	0.0
55.8	7.5	0.0	71.2	4.1	0.0	86.5	2.1	0.0
56.1	7.5	0.0	71.4	3.9	0.0	86.8	2.2	0.0
56.3	7.5	0.0	71.7	3.8	0.0	87.0	2.2	0.0
56.6	7.5	0.0	71.9	3.6	0.0	87.3	2.2	0.0
56.8	7.4	0.0	72.2	3.5	0.0	87.6	2.3	0.0
57.1	7.3	0.0	72.4	3.3	0.0	87.8	2.3	0.0
57.3	7.1	0.0	72.7	3.2	0.0	88.1	2.3	0.0
57.6	6.9	0.0	73.0	3.0	0.0	88.3	2.3	0.0
57.9	6.6	0.0	73.2	2.8	0.0	88.6	2.4	0.0
58.1	6.3	0.0	73.5	2.7	0.0	88.8	2.4	0.0
58.4	6.0	0.0	73.7	2.5	0.0	89.1	2.4	0.0
58.6	5.6	0.0	74.0	2.4	0.0	89.3	2.4	0.0
58.9	5.3	0.0	74.2	2.2	0.0	89.6	2.4	0.0
59.1	4.9	0.0	74.5	2.1	0.0	89.9	2.4	0.0
59.4	4.4	0.0	74.8	1.9	0.0	90.1	1.5	0.0
59.6	4.0	0.0	75.0	1.8	0.0	90.4	1.5	0.0
59.9	3.6	0.0	75.3	1.6	0.0	90.6	1.5	0.0
60.2	3.1	0.0	75.5	1.5	0.0	90.9	1.5	0.0
60.4	2.7	0.0	75.8	1.3	0.0	91.1	1.5	0.0
60.7	2.2	0.0	76.0	1.2	0.0	91.4	1.5	0.0
60.9	1.7	0.0	76.3	1.1	0.0	91.6	1.5	0.0
61.2	1.3	0.0	76.5	0.9	0.0	91.9	1.5	0.0