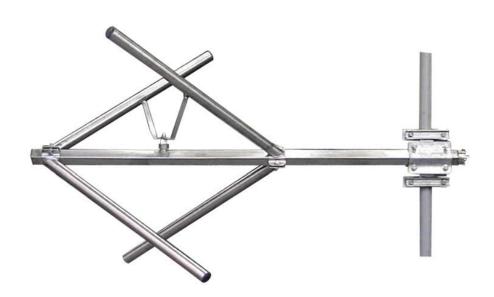






## 11 Bay TFC2K 98.1MHz

October 2015



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#### General data of antenna System

TX station Site Name

System of coordinates WGS84
Longitude -04°21'22.296"

Latitude 00°00'05.703"

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 Polarization (H/V/C/X) С Transmitting cable attenuation (dB) 0.0 Additional attenuations(dB) 0.0 Base diagrams sectors (T = All, F = Front) Т Velocity factor of cables to Antennas (0÷1) 1.00 Coordinate System(C = cartesian, P = polar) Р Mast side / diameter(cm) 0.0 Mast cross section (T/Q/C) Q Structure rotation w.r.t. North (°) 0.0

#### Information about antennas used in the System

0.0

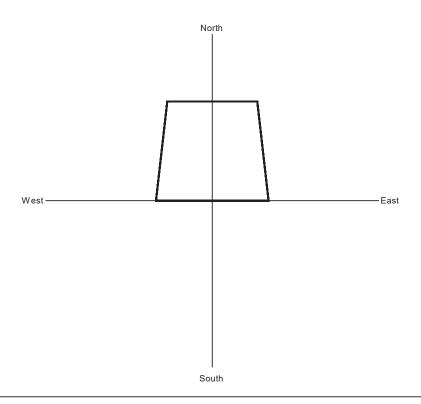
Antenna Telecom Manufacturer TFC2K Antenna model Band start(MHz) 87 Band stop(MHz) 108 diagrams Frequency(MHz) 98.1 Polariz (H/V/C/X) С Vertical dist (cm) 320 Height (cm) 250 Width (cm) 170 Thickness (cm) 150 80 Weight (Kg) Maximum power (KW) 4 Gain (dBd) -3.4 70 North E.C. (cm) East E.C. (cm) 0 0 Return loss (dB) R.C.Phase (°) 0

Mast rotation w.r.t. North (°)

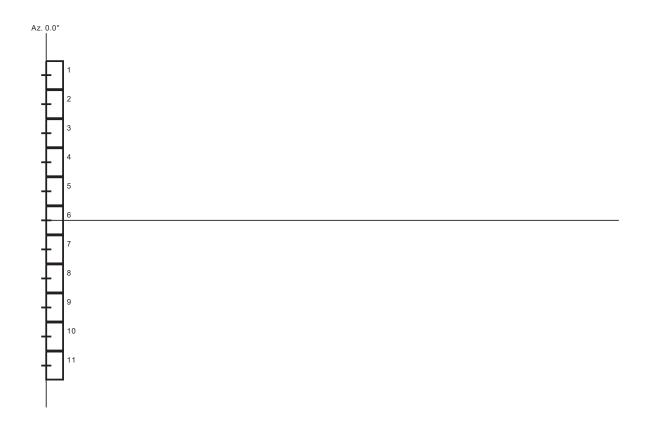
## Geometrical and electrical data of antenna System

	Power (%)	Tilt (°)	Az. (°/N)	F	Phase (°)	V dist. (m)	Scr-d (cm)	Scr-Az (°/N)	Rot. (1÷4)	Type (1÷2)	L cables (cm)	Car. phase (°)
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)

0
11
1.00
0.0
1.00
7.01
0.00
7.01
0.01
7.00
5.02
0.0050
0.0
66

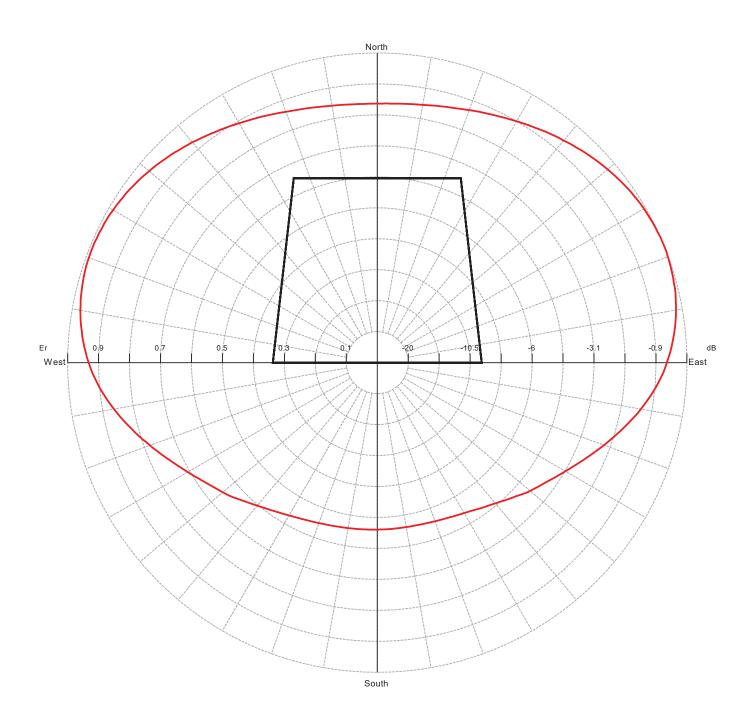
#### Diagram in dBK calculated at horizon

Az. (°/N)	dBK						
0	-24.5	90	-23.6	180	-28.4	270	-23.6
10	-24.5	100	-24.3	190	-28.3	280	-23.2
20	-24.2	110	-25.2	200	-28.2	290	-23.1
30	-23.9	120	-26.1	210	-27.9	300	-23.1
40	-23.6	130	-26.8	220	-27.4	310	-23.3
50	-23.2	140	-27.5	230	-26.7	320	-23.6
60	-23.0	150	-28.0	240	-26.0	330	-24.0
70	-23.0	160	-28.3	250	-25.1	340	-24.3
80	-23.2	170	-28.4	260	-24.3	350	-24.5

# Diagram in dBK calculated at horizon (without -20dB\'s lower limit vs maximum power)

Az. (°/N)	dBK						
0	-24.5	90	-23.6	180	-28.4	270	-23.6
10	-24.5	100	-24.3	190	-28.3	280	-23.2
20	-24.2	110	-25.2	200	-28.2	290	-23.1
30	-23.9	120	-26.1	210	-27.9	300	-23.1
40	-23.6	130	-26.8	220	-27.4	310	-23.3
50	-23.2	140	-27.5	230	-26.7	320	-23.6
60	-23.0	150	-28.0	240	-26.0	330	-24.0
70	-23.0	160	-28.3	250	-25.1	340	-24.3
80	-23.2	170	-28.4	260	-24.3	350	-24.5

## Horizontal diagram at 0.0° tilt (Total Antenna)



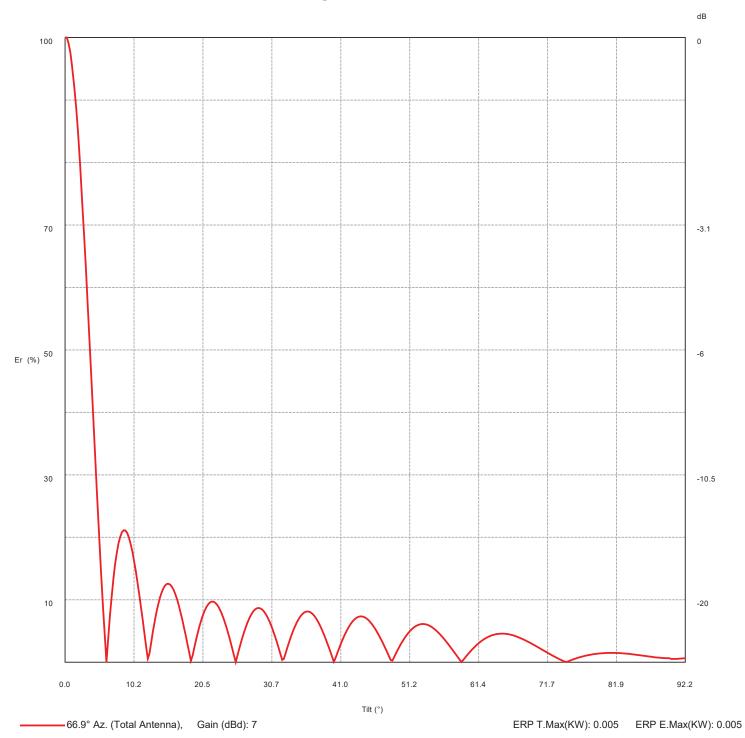
## Horizontal diagram at 0.0° tilt (Total Antenna)

Az (°)	Er (%)	ERP (W)	Az (°)	Er (%)	ERP (W)	Az (°)	Er (%)	ERP (W)
0.0	83.7	3.5	60.0	99.4	5.0	120.0	70.2	2.5
1.0	83.7	3.5	61.0	99.5	5.0	121.0	69.5	2.4
2.0	83.8	3.5	62.0	99.7	5.0	122.0	68.8	2.4
3.0	83.8	3.5	63.0	99.8	5.0	123.0	68.2	2.3
4.0	83.8	3.5	64.0	99.9	5.0	124.0	67.6	2.3
5.0	83.9	3.5	65.0	99.9	5.0	125.0	67.0	2.3
6.0	84.0	3.5	66.0	100.0	5.0	126.0	66.5	2.2
7.0	84.1	3.6	67.0	100.0	5.0	127.0	66.0	2.2
8.0	84.2	3.6	68.0	100.0	5.0	128.0	65.4	2.1
9.0	84.4	3.6	69.0	100.0	5.0	129.0	64.9	2.1
10.0	84.5 84.7	3.6 3.6	70.0 71.0	99.9 99.8	5.0 5.0	130.0 131.0	64.5 63.9	2.1 2.1
11.0 12.0	84.9	3.6	71.0	99.7	5.0	132.0	63.3	2.0
13.0	85.1	3.6	73.0	99.5	5.0	133.0	62.8	2.0
14.0	85.3	3.7	74.0	99.4	5.0	134.0	62.2	1.9
15.0	85.5	3.7	75.0	99.2	4.9	135.0	61.7	1.9
16.0	85.7	3.7	76.0	99.1	4.9	136.0	61.2	1.9
17.0	86.0	3.7	77.0	98.9	4.9	137.0	60.7	1.8
18.0	86.2	3.7	78.0	98.5	4.9	138.0	60.2	1.8
19.0	86.5	3.8	79.0	98.3	4.8	139.0	59.7	1.8
20.0	86.8	3.8	80.0	97.9	4.8	140.0	59.3	1.8
21.0	87.1	3.8	81.0	97.6	4.8	141.0	58.9	1.7
22.0	87.4	3.8	82.0	97.3	4.7	142.0	58.5	1.7
23.0	87.7	3.9	83.0	96.9	4.7	143.0	58.2	1.7
24.0	88.0	3.9	84.0	96.5	4.7	144.0	57.9	1.7
25.0	88.3	3.9	85.0	96.1	4.6	145.0	57.5	1.7
26.0	88.6	3.9	86.0	95.6	4.6	146.0	57.2	1.6
27.0	88.9	4.0	87.0	95.2	4.5	147.0	56.9	1.6
28.0	89.3	4.0	88.0	94.6	4.5	148.0	56.6	1.6
29.0	89.6	4.0	89.0	94.1	4.4	149.0	56.3	1.6
30.0	90.1	4.1	90.0	93.5	4.4	150.0	56.1	1.6
31.0	90.4	4.1	91.0	93.0	4.3	151.0	55.9	1.6
32.0	90.7	4.1	92.0	92.4	4.3	152.0	55.7	1.6
33.0	91.1	4.2	93.0	91.8	4.2	153.0	55.5	1.5
34.0	91.4	4.2	94.0	91.1	4.2	154.0	55.3	1.5
35.0	91.8	4.2	95.0	90.4	4.1	155.0	55.1	1.5
36.0	92.3	4.3	96.0	89.6	4.0	156.0	55.0	1.5
37.0	92.6	4.3	97.0	88.9	4.0	157.0	54.9	1.5
38.0	93.0	4.3	98.0	88.1	3.9	158.0	54.8	1.5
39.0	93.3	4.4	99.0	87.3	3.8	159.0	54.6	1.5
40.0 41.0	93.6 94.1	4.4 4.4	100.0 101.0	86.4 85.6	3.7 3.7	160.0 161.0	54.5 54.4	1.5 1.5
42.0	94.1	4.5	102.0	84.8	3.6	162.0	54.3	1.5
43.0	94.7	4.5	103.0	83.9	3.5	163.0	54.3	1.5
44.0	95.2	4.5	104.0	83.0	3.5	164.0	54.2	1.5
45.0	95.5	4.6	105.0	82.2	3.4	165.0	54.1	1.5
46.0	95.8	4.6	106.0	81.3	3.3	166.0	54.1	1.5
47.0	96.2	4.6	107.0	80.5	3.2	167.0	54.0	1.5
48.0	96.5	4.7	108.0	79.6	3.2	168.0	54.0	1.5
49.0	96.8	4.7	109.0	78.8	3.1	169.0	53.9	1.5
50.0	97.2	4.7	110.0	77.9	3.0	170.0	53.9	1.5
51.0	97.4	4.8	111.0	77.0	3.0	171.0	53.9	1.5
52.0	97.7	4.8	112.0	76.2	2.9	172.0	53.9	1.5
53.0	97.9	4.8	113.0	75.4	2.9	173.0	53.9	1.5
54.0	98.2	4.8	114.0	74.6	2.8	174.0	53.9	1.5
55.0	98.5	4.9	115.0	73.8	2.7	175.0	53.9	1.5
56.0	98.7	4.9	116.0	73.1	2.7	176.0	53.9	1.5
57.0	98.9	4.9	117.0	72.3	2.6	177.0	53.9	1.5
58.0	99.1	4.9	118.0	71.5	2.6	178.0	53.9	1.5
59.0	99.3	4.9	119.0	70.8	2.5	179.0	53.9	1.5

## Horizontal diagram at 0.0° tilt (Total Antenna)

Az (°)	Er (%)	ERP (W)	Az (°)	Er (%)	ERP (W)	Az (°)	Er (%)	ERP (W)
180.0	54.0	1.5	240.0	70.7	2.5	300.0	98.5	4.9
181.0	54.0	1.5	241.0	71.3	2.6	301.0	98.4	4.9
182.0	54.0	1.5	242.0	72.0	2.6	302.0	98.2	4.8
183.0	54.0	1.5	243.0	72.7	2.7	303.0	97.9	4.8
184.0	54.0	1.5	244.0	73.5	2.7	304.0	97.8	4.8
185.0	54.1	1.5	245.0	74.2	2.8	305.0	97.6	4.8
186.0	54.1	1.5	246.0	75.0	2.8	306.0	97.3	4.7
187.0	54.1	1.5	247.0	75.8	2.9	307.0	97.1	4.7
188.0	54.1	1.5	248.0	76.5	2.9	308.0	96.8	4.7
189.0	54.2	1.5	249.0	77.4	3.0	309.0	96.5	4.7
190.0	54.3	1.5	250.0	78.1	3.1	310.0	96.2	4.6
191.0	54.3	1.5	251.0	78.9	3.1	311.0	95.9	4.6
192.0	54.4	1.5	252.0	79.8	3.2	312.0	95.6	4.6
193.0 194.0	54.4 54.5	1.5 1.5	253.0 254.0	80.6 81.5	3.3 3.3	313.0 314.0	95.3 95.0	4.6 4.5
195.0	54.6	1.5	255.0	82.2	3.4	315.0	94.6	4.5
196.0	54.7	1.5	256.0	83.1	3.5	316.0	94.3	4.5
197.0	54.8	1.5	257.0	84.0	3.5	317.0	93.9	4.4
198.0	54.9	1.5	258.0	84.8	3.6	318.0	93.5	4.4
199.0	55.0	1.5	259.0	85.6	3.7	319.0	93.2	4.4
200.0	55.1	1.5	260.0	86.4	3.7	320.0	92.9	4.3
201.0	55.3	1.5	261.0	87.2	3.8	321.0	92.5	4.3
202.0	55.5	1.5	262.0	88.0	3.9	322.0	92.2	4.3
203.0	55.6	1.5	263.0	88.7	3.9	323.0	91.7	4.2
204.0	55.7	1.6	264.0	89.4	4.0	324.0	91.4	4.2
205.0	55.9	1.6	265.0	90.2	4.1	325.0	91.0	4.2
206.0	56.1	1.6	266.0	90.8	4.1	326.0	90.7	4.1
207.0	56.3	1.6	267.0	91.4	4.2	327.0	90.4	4.1
208.0	56.5	1.6	268.0	92.1	4.3	328.0	89.9	4.1
209.0	56.7	1.6	269.0	92.7	4.3	329.0	89.6	4.0
210.0	57.0	1.6	270.0	93.2	4.4	330.0	89.3	4.0
211.0	57.3	1.6	271.0	93.8	4.4	331.0	88.9	4.0
212.0	57.5	1.7	272.0	94.2	4.5	332.0	88.6	3.9
213.0	57.8	1.7	273.0	94.7	4.5	333.0	88.3	3.9
214.0 215.0	58.1 58.5	1.7 1.7	274.0 275.0	95.2 95.6	4.5 4.6	334.0 335.0	88.0 87.7	3.9 3.9
216.0	58.8	1.7	276.0	95.9	4.6	336.0	87.4	3.8
217.0	59.1	1.8	277.0	96.4	4.7	337.0	87.4 87.1	3.8
218.0	59.5	1.8	278.0	96.7	4.7	338.0	86.8	3.8
219.0	59.9	1.8	279.0	97.1	4.7	339.0	86.5	3.8
220.0	60.3	1.8	280.0	97.4	4.8	340.0	86.2	3.7
221.0	60.7	1.8	281.0	97.6	4.8	341.0	86.0	3.7
222.0	61.2	1.9	282.0	97.9	4.8	342.0	85.7	3.7
223.0	61.6	1.9	283.0	98.2	4.8	343.0	85.5	3.7
224.0	62.1	1.9	284.0	98.3	4.8	344.0	85.3	3.7
225.0	62.6	2.0	285.0	98.5	4.9	345.0	85.1	3.6
226.0	63.1	2.0	286.0	98.7	4.9	346.0	84.9	3.6
227.0	63.7	2.0	287.0	98.9	4.9	347.0	84.7	3.6
228.0	64.2	2.1	288.0	99.0	4.9	348.0	84.5	3.6
229.0	64.7	2.1	289.0	99.1	4.9	349.0	84.4	3.6
230.0	65.1	2.1	290.0	99.1	4.9	350.0	84.2	3.6
231.0	65.6	2.2	291.0	99.2	4.9	351.0	84.1	3.6
232.0	66.1	2.2	292.0	99.2	4.9	352.0	84.0	3.5
233.0	66.5	2.2	293.0	99.2	4.9	353.0	83.9	3.5
234.0	67.1	2.3	294.0	99.1	4.9	354.0	83.8	3.5
235.0 236.0	67.6 68.2	2.3	295.0 296.0	99.1 99.0	4.9	355.0 356.0	83.8	3.5
236.0	68.8	2.3 2.4	296.0	99.0 99.0	4.9 4.9	356.0	83.8 83.7	3.5 3.5
237.0	69.4	2.4	297.0	98.9	4.9 4.9	358.0	83.7	3.5 3.5
239.0	70.0	2.5	299.0	98.7	4.9	359.0	83.7	3.5
203.0	7 0.0	2.0	200.0	30.1	+.5	1 000.0	00.1	J.J

## Vertical diagram at an azimuth of 66.9°



## Vertical diagram at an azimuth of 66.9°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
0.0	100.3	5.0	15.4	12.6	0.1	30.7	5.6	0.0
0.3	100.0	5.0	15.6	12.4	0.1	31.0	4.8	0.0
0.5	99.1	4.9	15.9	12.1	0.1	31.2	4.0	0.0
0.8	97.6	4.7	16.1	11.5	0.1	31.5	3.1	0.0
1.0	95.6	4.6	16.4	10.9	0.1	31.7	2.2	0.0
1.3	93.1	4.3	16.6	10.0	0.1	32.0	1.3	0.0
1.5	90.0	4.0	16.9	9.1	0.0	32.3	0.4	0.0
1.8	86.5	3.7	17.2	8.0	0.0	32.5	0.6	0.0
2.0 2.3	82.6 78.2	3.4 3.0	17.4 17.7	6.8 5.6	0.0 0.0	32.8 33.0	1.5 2.4	0.0 0.0
2.3	78.2 73.5	2.7	17.7	4.3	0.0	33.3	3.2	0.0
2.8	68.6	2.3	18.2	2.9	0.0	33.5	4.0	0.0
3.1	63.3	2.0	18.4	1.6	0.0	33.8	4.8	0.0
3.3	57.9	1.7	18.7	0.2	0.0	34.0	5.5	0.0
3.6	52.3	1.4	18.9	1.1	0.0	34.3	6.1	0.0
3.8	46.6	1.1	19.2	2.4	0.0	34.6	6.7	0.0
4.1	40.9	0.8	19.5	3.6	0.0	34.8	7.1	0.0
4.4	35.2	0.6	19.7	4.7	0.0	35.1	7.5	0.0
4.6	29.6	0.4	20.0	5.8	0.0	35.3	7.8	0.0
4.9	24.1	0.3	20.2	6.7	0.0	35.6	8.0	0.0
5.1	18.8	0.2	20.5	7.6	0.0	35.8	8.1	0.0
5.4	13.7	0.1	20.7	8.3	0.0	36.1	8.1	0.0
5.6	8.8	0.0	21.0	8.8	0.0	36.4	8.0	0.0
5.9	4.3	0.0	21.2	9.3	0.0	36.6	7.9	0.0
6.1	0.0	0.0	21.5	9.5	0.0	36.9	7.6	0.0
6.4	3.9	0.0	21.8	9.7	0.0	37.1	7.3	0.0
6.7	7.4	0.0	22.0	9.7	0.0	37.4	6.9	0.0
6.9	10.6	0.1	22.3	9.5	0.0	37.6	6.4	0.0
7.2	13.3	0.1	22.5	9.3	0.0	37.9	5.8	0.0
7.4	15.6	0.1	22.8	8.9	0.0	38.1	5.2	0.0
7.7	17.5	0.2	23.0	8.3	0.0	38.4	4.6	0.0
7.9	19.0	0.2	23.3	7.7	0.0	38.7	3.9	0.0
8.2	20.1	0.2	23.6	7.0	0.0	38.9	3.2	0.0
8.4	20.8	0.2	23.8	6.1	0.0	39.2	2.4	0.0
8.7	21.1	0.2	24.1 24.3	5.2 4.2	0.0 0.0	39.4 39.7	1.6 0.8	0.0 0.0
9.0 9.2	21.1 20.7	0.2 0.2	24.5	3.2	0.0	39.9	0.1	0.0
9.5	20.0	0.2	24.8	2.2	0.0	40.2	0.7	0.0
9.7	19.0	0.2	25.1	1.1	0.0	40.4	1.5	0.0
10.0	17.7	0.2	25.3	0.0	0.0	40.7	2.2	0.0
10.2	16.3	0.1	25.6	1.0	0.0	41.0	2.9	0.0
10.5	14.6	0.1	25.9	2.1	0.0	41.2	3.6	0.0
10.8	12.8	0.1	26.1	3.1	0.0	41.5	4.2	0.0
11.0	10.9	0.1	26.4	4.0	0.0	41.7	4.8	0.0
11.3	8.8	0.0	26.6	4.9	0.0	42.0	5.3	0.0
11.5	6.8	0.0	26.9	5.7	0.0	42.2	5.8	0.0
11.8	4.7	0.0	27.1	6.5	0.0	42.5	6.2	0.0
12.0	2.6	0.0	27.4	7.1	0.0	42.8	6.6	0.0
12.3	0.6	0.0	27.6	7.6	0.0	43.0	6.9	0.0
12.5	1.4	0.0	27.9	8.1	0.0	43.3	7.1	0.0
12.8	3.2	0.0	28.2	8.4	0.0	43.5	7.2	0.0
13.1	5.0	0.0	28.4	8.6	0.0	43.8	7.3	0.0
13.3	6.6	0.0	28.7	8.7	0.0	44.0	7.3	0.0
13.6	8.0	0.0	28.9	8.6	0.0	44.3	7.3	0.0
13.8	9.2	0.0	29.2	8.5	0.0	44.5	7.2	0.0
14.1	10.3	0.1	29.4	8.3	0.0	44.8	7.0	0.0
14.3	11.2	0.1 0.1	29.7 30.0	7.9 7.5	0.0	45.1 45.3	6.8 6.5	0.0 0.0
14.6 14.8	11.8 12.3	0.1	30.0	7.5 6.9	0.0 0.0	45.3 45.6	6.5 6.1	0.0
15.1	12.5	0.1	30.5	6.3	0.0	45.8	5.8	0.0
10.1	14.0	U. I	] 30.3	0.3	0.0	1 40.0	J.0	0.0

## Vertical diagram at an azimuth of 66.9°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
46.1	5.3	0.0	61.4	3.0	0.0	76.8	0.9	0.0
46.3	4.9	0.0	61.7	3.3	0.0	77.1	1.0	0.0
46.6	4.4	0.0	62.0	3.5	0.0	77.3	1.0	0.0
46.8	3.8	0.0	62.2	3.7	0.0	77.6	1.1	0.0
47.1	3.3	0.0	62.5	3.8	0.0	77.8	1.2	0.0
47.4	2.7	0.0	62.7	4.0	0.0	78.1	1.2	0.0
47.6	2.1	0.0	63.0	4.1	0.0	78.3	1.3	0.0
47.9	1.5	0.0	63.2	4.2	0.0	78.6	1.3	0.0
48.1	0.9	0.0	63.5	4.3	0.0	78.8	1.3	0.0
48.4	0.3	0.0	63.7	4.4	0.0	79.1	1.4	0.0
48.6	0.3	0.0	64.0	4.5	0.0	79.4	1.4	0.0
48.9	0.8	0.0	64.3	4.5	0.0	79.6	1.4	0.0
49.2	1.4	0.0	64.5	4.6	0.0	79.9	1.5	0.0
49.4	1.9	0.0	64.8	4.6	0.0	80.1	1.5	0.0
49.7	2.5	0.0	65.0	4.6	0.0	80.4	1.5	0.0
49.9	3.0	0.0	65.3	4.6	0.0	80.6	1.5	0.0
50.2	3.4	0.0	65.5	4.5	0.0	80.9	1.5	0.0
50.4	3.9	0.0	65.8	4.5	0.0	81.2	1.5	0.0
50.7	4.3	0.0	66.0	4.4	0.0	81.4	1.5	0.0
50.9	4.6	0.0	66.3	4.4	0.0	81.7	1.5	0.0
51.2	4.9	0.0	66.6	4.3	0.0	81.9	1.5	0.0
51.5	5.2	0.0	66.8	4.2	0.0	82.2	1.5	0.0
51.7	5.5	0.0	67.1	4.1	0.0	82.4	1.5	0.0
52.0	5.7	0.0	67.3	4.0	0.0	82.7	1.4	0.0
52.2	5.9	0.0	67.6	3.9	0.0	82.9 83.2	1.4	0.0
52.5	6.0	0.0	67.8 68.1	3.8 3.7	0.0 0.0	83.5	1.4	0.0
52.7 53.0	6.1 6.1	0.0 0.0	68.4	3.7	0.0	83.7	1.4 1.3	0.0
53.2	6.1		68.6	3.4	0.0	84.0	1.3	0.0
53.5	6.1	0.0 0.0	68.9	3.2	0.0	84.2	1.3	0.0 0.0
53.8	6.0	0.0	69.1	3.1	0.0	84.5	1.2	0.0
54.0	5.9	0.0	69.4	2.9	0.0	84.7	1.2	0.0
54.3	5.8	0.0	69.6	2.8	0.0	85.0	1.2	0.0
54.5	5.6	0.0	69.9	2.6	0.0	85.2	1.1	0.0
54.8	5.4	0.0	70.1	2.5	0.0	85.5	1.1	0.0
55.0	5.2	0.0	70.4	2.3	0.0	85.8	1.1	0.0
55.3	4.9	0.0	70.7	2.2	0.0	86.0	1.0	0.0
55.6	4.6	0.0	70.9	2.0	0.0	86.3	1.0	0.0
55.8	4.3	0.0	71.2	1.8	0.0	86.5	1.0	0.0
56.1	4.0	0.0	71.4	1.7	0.0	86.8	0.9	0.0
56.3	3.7	0.0	71.7	1.5	0.0	87.0	0.9	0.0
56.6	3.4	0.0	71.9	1.4	0.0	87.3	0.8	0.0
56.8	3.0	0.0	72.2	1.2	0.0	87.6	0.8	0.0
57.1	2.6	0.0	72.4	1.1	0.0	87.8	8.0	0.0
57.3	2.3	0.0	72.7	0.9	0.0	88.1	0.7	0.0
57.6	1.9	0.0	73.0	8.0	0.0	88.3	0.7	0.0
57.9	1.5	0.0	73.2	0.6	0.0	88.6	0.7	0.0
58.1	1.1	0.0	73.5	0.5	0.0	88.8	0.7	0.0
58.4	0.8	0.0	73.7	0.3	0.0	89.1	0.6	0.0
58.6	0.4	0.0	74.0	0.2	0.0	89.3	0.6	0.0
58.9	0.0	0.0	74.2	0.1	0.0	89.6	0.6	0.0
59.1	0.3	0.0	74.5	0.0	0.0	89.9	0.6	0.0
59.4	0.7	0.0	74.8	0.1	0.0	90.1	0.5	0.0
59.6	1.0	0.0	75.0	0.3	0.0	90.4	0.5	0.0
59.9	1.4	0.0	75.3	0.4	0.0	90.6	0.5	0.0
60.2	1.7	0.0	75.5	0.5	0.0	90.9	0.5	0.0
60.4	2.0	0.0	75.8	0.6	0.0	91.1	0.6	0.0
60.7	2.3	0.0	76.0	0.7	0.0	91.4	0.6	0.0
60.9	2.5	0.0	76.3	0.7	0.0	91.6	0.6	0.0
61.2	2.8	0.0	76.5	0.8	0.0	91.9	0.6	0.0