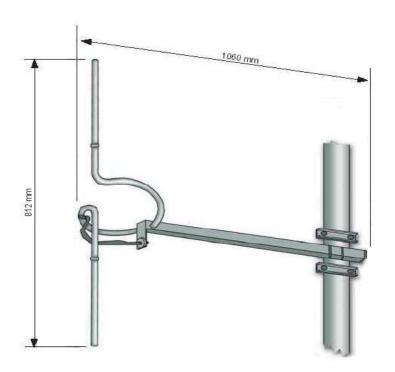






8 Bay TFC1K 98.1MHz

November 2015



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General data of antenna System

TX station Site Name System of coordinates Longitude Latitude	WGS84
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	TFC1K
Polarization (H/V/C/X)	С
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)	Р
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

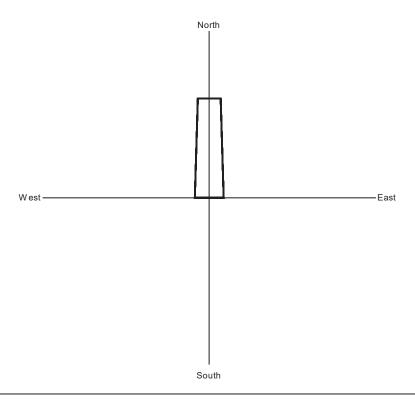
Information about antennas used in the System

	Antenna
Manufacturer	Telecom
Antenna model	TFC1K
Band start(MHz)	87.5
Band stop(MHz)	108
diagrams Frequency(MHz)	98.10
Polariz (H/V/C/X)	С
Vertical dist (cm)	260
Height (cm)	80
Width (cm)	29
Thickness (cm)	100
Weight (Kg)	3
Maximum power (KW)	8.0
Gain (dBd)	-3.3
North E.C. (cm)	70
East E.C. (cm)	0
Return loss (dB)	0
R.C.Phase (°)	0

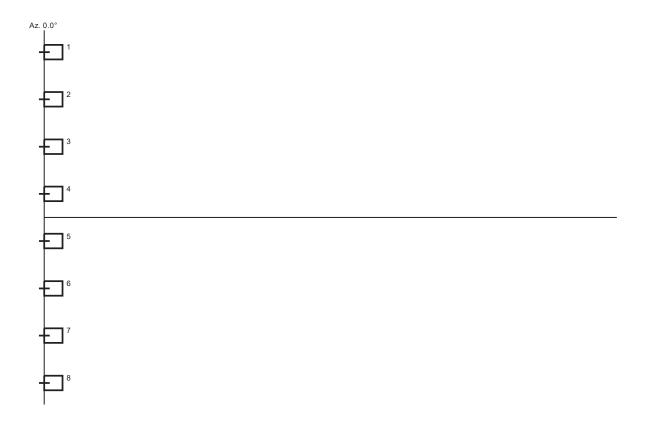
Geometrical and electrical data of antenna System

	Power (%)	Tilt (°)	Az. (°/N)		ase °)	V dist. (m)	Scr-d (cm)	Scr-Az (°/N)	Rot. (1÷4)	Type (1÷2)	L cables (cm)	Car. phase (°)
1	12.500	0	0	0 +	+0.0	9.10	0.0	0.0	1	1	0.0	0.0
2	12.500	0	0	0 +	+0.0	6.50	0.0	0.0	1	1	0.0	0.0
3	12.500	0	0	0 +	+0.0	3.90	0.0	0.0	1	1	0.0	0.0
4	12.500	0	0	0 +	+0.0	1.30	0.0	0.0	1	1	0.0	0.0
5	12.500	0	0	0 +	+0.0	-1.30	0.0	0.0	1	1	0.0	0.0
6	12.500	0	0	0 +	+0.0	-3.90	0.0	0.0	1	1	0.0	0.0
7	12.500	0	0	0 +	+0.0	-6.50	0.0	0.0	1	1	0.0	0.0
8	12.500	0	0	0 +	+0.0	-9.10	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	8
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)	5.73
G. Distribution losses (dB)	0.00
H. Nominal max gain F - G (dBd)	5.73
I. Compensation losses (dB)	0.07
J. Effec. max gain H - I (dBd)	5.66
K. Effec. max gain (times)	3.68
L. Effec. max power E * K (KW)	0.0037
M. Max power depr. angle (°)	0.0
N. Max power az. angle (°)	0

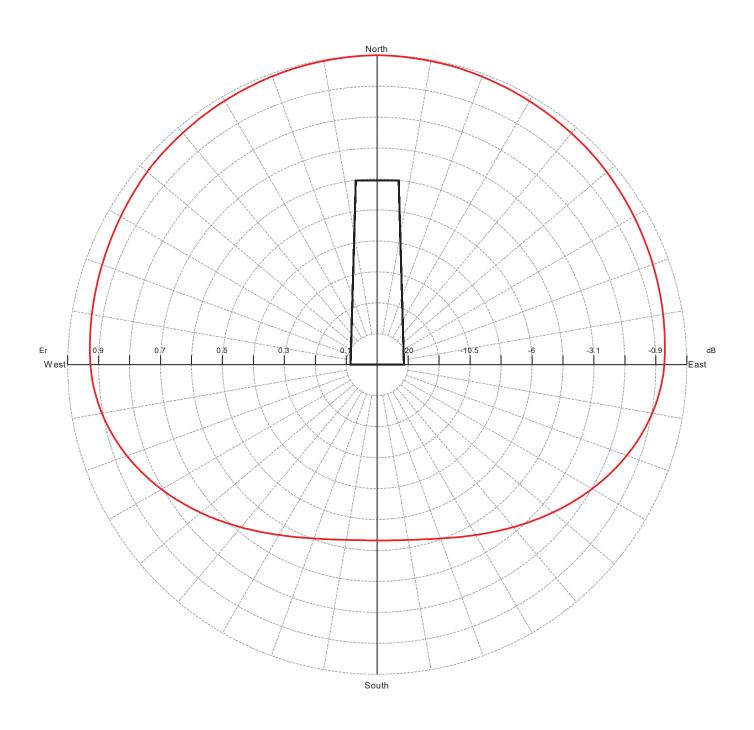
Diagram in dBK calculated at horizon

Az. (°/N)	dBK						
0	-24.3	90	-25.0	180	-29.3	270	-25.0
10	-24.4	100	-25.2	190	-29.2	280	-24.9
20	-24.4	110	-25.7	200	-28.8	290	-24.8
30	-24.5	120	-26.3	210	-28.3	300	-24.7
40	-24.5	130	-26.9	220	-27.6	310	-24.6
50	-24.6	140	-27.6	230	-26.9	320	-24.5
60	-24.7	150	-28.3	240	-26.2	330	-24.5
70	-24.8	160	-28.8	250	-25.6	340	-24.4
80	-24.9	170	-29.2	260	-25.2	350	-24.4

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

Az. (°/N)	dBK						
0	-24.3	90	-25.0	180	-29.3	270	-25.0
10	-24.4	100	-25.2	190	-29.2	280	-24.9
20	-24.4	110	-25.7	200	-28.8	290	-24.8
30	-24.5	120	-26.3	210	-28.3	300	-24.7
40	-24.5	130	-26.9	220	-27.6	310	-24.6
50	-24.6	140	-27.6	230	-26.9	320	-24.5
60	-24.7	150	-28.3	240	-26.2	330	-24.5
70	-24.8	160	-28.8	250	-25.6	340	-24.4
80	-24.9	170	-29.2	260	-25.2	350	-24.4

Horizontal diagram at 0.0° tilt (Total Antenna)



-0.0° Tilt (Total Antenna), Gain (dBd): 5.66

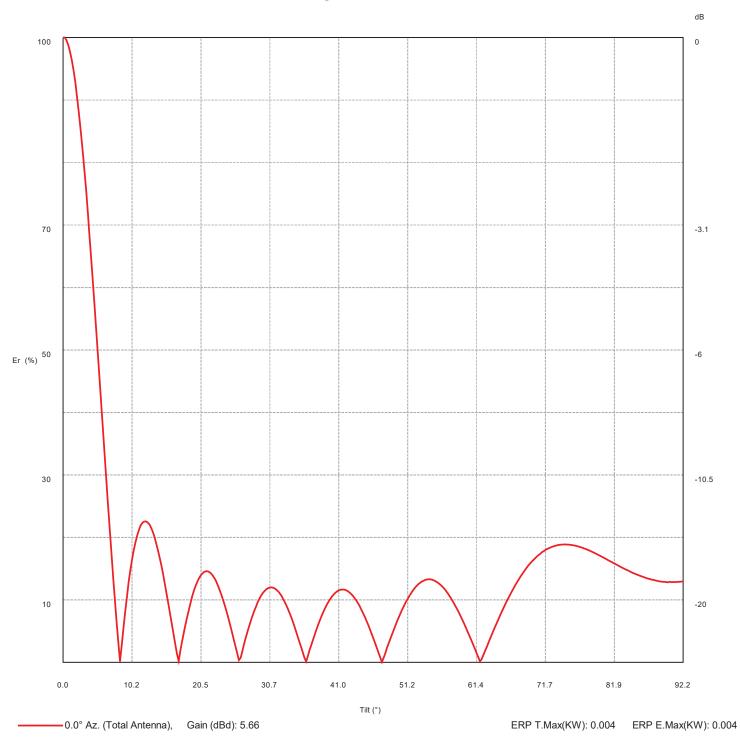
Horizontal diagram at 0.0° tilt (Total Antenna)

DOC 100.0 3.7 60.0 69.8 3.4 120.0 89.2 24.	Az (°)	Er (%)	ERP (W)	Az (°)	Er (%)	ERP (W)	Az (°)	Er (%)	ERP (W)
10.0 100.0 3.7 61.0 95.7 3.4 121.0 79.6 2.3 3.0 99.9 3.7 62.0 95.6 3.4 122.0 79.0 2.3 3.0 99.9 3.7 63.0 95.5 3.4 123.0 78.4 2.3 3.0 99.8 3.7 66.0 95.5 3.4 123.0 78.4 2.3 3.0 99.8 3.7 66.0 95.3 3.3 124.0 77.8 2.2 5.0 99.8 3.7 66.0 95.3 3.3 125.0 77.2 2.2 7.0 99.7 3.7 66.0 95.2 3.3 126.0 76.6 2.2 7.0 99.7 3.7 66.0 95.2 3.3 126.0 76.6 2.2 7.0 99.7 3.7 66.0 95.1 3.3 127.0 76.0 2.1 9.0 99.7 3.7 68.0 95.0 3.3 128.0 75.4 2.1 9.0 99.7 3.7 68.0 95.0 3.3 128.0 75.4 2.1 9.0 99.7 3.7 68.0 94.9 3.3 128.0 75.4 2.1 9.0 99.7 3.7 68.0 94.9 3.3 128.0 75.4 2.1 9.0 99.7 3.7 68.0 94.9 3.3 128.0 74.2 2.0 11.0 99.6 3.7 71.0 94.7 3.3 130.0 74.2 2.0 11.0 99.6 3.7 71.0 94.7 3.3 130.0 74.2 2.0 11.0 99.6 3.7 71.0 94.7 3.3 130.0 74.2 2.0 11.0 99.6 3.7 71.0 94.7 3.3 130.0 74.2 2.0 11.0 99.5 3.6 72.0 94.6 3.3 132.0 73.0 2.0 11.0 99.5 3.6 73.0 94.5 3.3 130.0 72.4 19.9 15.0 99.4 3.6 75.0 94.3 3.3 130.0 72.4 19.9 15.0 99.4 3.6 75.0 94.3 3.3 130.0 72.4 19.9 15.0 99.4 3.6 75.0 94.3 3.3 130.0 77.1 8.19.1 15.0 99.4 3.6 76.0 94.2 3.3 130.0 77.1 8.19.1 15.0 99.1 3.6 76.0 94.2 3.3 130.0 77.1 8.19.1 15.0 99.1 3.6 76.0 94.2 3.3 130.0 70.7 1.8 19.0 99.3 3.6 76.0 94.2 3.3 130.0 99.5 3.6 78.0 94.1 3.3 130.0 70.7 1.8 19.0 99.3 3.6 76.0 94.2 3.3 130.0 69.6 1.8 19.0 99.1 3.6 80.0 94.0 94.0 3.3 130.0 69.6 1.8 19.0 99.1 3.6 80.0 94.0 94.0 3.3 130.0 69.6 1.8 19.0 99.1 3.6 80.0 94.0 94.0 3.3 130.0 69.6 1.8 19.0 99.1 3.6 80.0 94.0 94.0 3.3 130.0 69.6 1.8 19.0 99.1 3.6 80.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 9	0.0	100.0	3.7	60.0	95.8	3.4	120.0	80.2	2.4
2.00 99.9 3.7 62.0 95.6 3.4 122.0 79.0 2.3 3.4 0.9 99.8 3.7 63.0 95.5 3.4 122.0 79.0 2.3 4.0 99.8 3.7 64.0 95.4 3.3 124.0 77.8 2.2 6.0 99.8 3.7 65.0 95.3 3.3 122.0 77.2 2.2 6.0 99.8 3.7 66.0 95.2 3.3 122.0 77.2 2.2 6.0 99.8 3.7 66.0 95.2 3.3 122.0 76.6 2.2 7.0 99.7 3.7 68.0 95.0 3.3 122.0 75.6 2.2 1.0 9.0 99.7 3.7 68.0 95.0 3.3 122.0 75.4 2.1 10.0 99.6 3.7 70.0 94.8 3.3 128.0 75.4 2.1 10.0 99.6 3.7 70.0 94.8 3.3 128.0 75.4 2.1 10.0 99.6 3.7 70.0 94.8 3.3 130.0 74.2 2.0 11.0 99.5 3.6 72.0 94.6 3.3 130.0 74.2 2.0 11.0 99.5 3.6 72.0 94.6 3.3 130.0 74.2 19.9 14.0 99.5 3.6 72.0 94.6 3.3 130.0 72.4 19.9 14.0 99.5 3.6 72.0 94.4 3.3 130.0 72.4 19.9 16.0 99.3 3.6 75.0 94.4 3.3 130.0 77.8 19.9 16.0 99.3 3.6 75.0 94.4 3.3 135.0 77.3 19.9 16.0 99.3 3.6 75.0 94.2 3.3 135.0 77.1 18.1 19.0 99.3 3.6 75.0 94.2 3.3 135.0 77.1 18.1 19.0 99.3 3.6 75.0 94.2 3.3 138.0 69.6 18.8 18.0 99.2 3.6 78.0 94.0 3.3 138.0 69.6 18.8 18.0 99.2 3.6 78.0 94.0 3.3 138.0 69.6 18.8 18.0 99.2 3.6 78.0 94.0 3.3 138.0 69.6 18.8 18.0 99.2 3.6 80.0 93.8 3.2 140.0 68.5 17.7 22.0 99.9 3.6 80.0 93.8 3.2 140.0 68.5 17.7 22.0 99.9 3.6 80.0 93.8 3.2 140.0 68.5 17.7 22.0 99.9 3.6 80.0 93.8 3.2 140.0 68.5 17.7 22.0 99.9 3.6 80.0 93.8 3.2 140.0 68.5 17.7 22.0 99.9 3.6 80.0 93.8 3.2 140.0 68.5 17.7 22.0 99.9 3.6 80.0 93.8 3.2 140.0 68.5 17.7 22.0 99.9 3.6 80.0 93.8 3.2 140.0 68.5 17.7 22.0 99.9 3.6 80.0 93.8 3.2 140.0 68.5 17.7 22.0 99.9 3.6 80.0 93.8 3.2 140.0 68.5 17.7 22.0 99.9 3.6 80.0 93.8 3.2 140.0 68.5 17.7 22.0 99.9 3.6 80.0 93.8 3.2 140.0 68.5 17.7 22.0 99.9 3.6 80.0 93.8 3.2 140.0 68.5 17.7 22.0 99.9 3.6 80.0 93.8 3.2 140.0 68.5 17.7 22.0 99.9 3.6 80.0 93.8 3.2 140.0 68.5 17.7 22.0 99.9 3.6 80.0 93.8 3.2 140.0 68.5 17.7 22.0 99.9 3.6 80.0 93.3 3.2 144.0 66.4 1.6 84.0 93.3 3.2 144.0 66.4 1.6 84.0 93.3 3.2 144.0 66.4 1.6 93.0 93.0 93.0 93.0 93.0 93.0 93.0 93.0	1.0								
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36.0 97.9 3.5 96.0 91.5 3.1 156.0 61.1 1.4 37.0 97.8 3.5 97.0 91.2 3.1 157.0 60.7 1.4 38.0 97.8 3.5 98.0 90.9 3.0 158.0 60.4 1.3 39.0 97.7 3.5 99.0 90.6 3.0 159.0 60.0 1.3 40.0 97.6 3.5 100.0 90.2 3.0 160.0 59.7 1.3 41.0 97.5 3.5 101.0 89.8 3.0 161.0 59.4 1.3 42.0 97.5 3.5 102.0 89.4 2.9 162.0 59.1 1.3 43.0 97.4 3.5 103.0 89.0 2.9 163.0 58.9 1.3 44.0 97.3 3.5 105.0 88.6 2.9 164.0 58.6 1.3 45.0 97.2 3.5 105.0	34.0	98.0	3.5	94.0	92.0	3.1	154.0	61.8	1.4
37.0 97.8 3.5 97.0 91.2 3.1 157.0 60.7 1.4 38.0 97.8 3.5 98.0 90.9 3.0 158.0 60.4 1.3 39.0 97.7 3.5 99.0 90.6 3.0 159.0 60.0 1.3 40.0 97.6 3.5 100.0 90.2 3.0 160.0 59.7 1.3 41.0 97.5 3.5 101.0 89.8 3.0 161.0 59.4 1.3 42.0 97.5 3.5 102.0 89.4 2.9 162.0 59.1 1.3 43.0 97.4 3.5 103.0 89.0 2.9 163.0 58.9 1.3 44.0 97.3 3.5 104.0 88.6 2.9 164.0 58.6 1.3 45.0 97.2 3.5 105.0 88.2 2.9 165.0 58.4 1.3 46.0 97.2 3.5 106.0	35.0	98.0	3.5	95.0	91.8	3.1	155.0	61.5	1.4
38.0 97.8 3.5 98.0 90.9 3.0 158.0 60.4 1.3 39.0 97.7 3.5 99.0 90.6 3.0 159.0 60.0 1.3 40.0 97.6 3.5 100.0 90.2 3.0 160.0 59.7 1.3 41.0 97.5 3.5 101.0 89.8 3.0 161.0 59.4 1.3 42.0 97.5 3.5 102.0 89.4 2.9 162.0 59.1 1.3 43.0 97.4 3.5 103.0 89.0 2.9 163.0 58.9 1.3 44.0 97.3 3.5 104.0 88.6 2.9 164.0 58.6 1.3 45.0 97.2 3.5 105.0 88.2 2.9 165.0 58.4 1.3 46.0 97.2 3.5 106.0 87.7 2.8 166.0 58.2 1.2 47.0 97.1 3.5 107.0 87.2 2.8 166.0 58.0 1.2 48.0 97.0 <	36.0	97.9	3.5	96.0	91.5	3.1	156.0	61.1	1.4
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48.0 97.0 3.5 108.0 86.8 2.8 168.0 57.8 1.2 49.0 96.9 3.5 109.0 86.3 2.7 169.0 57.6 1.2 50.0 96.8 3.5 110.0 85.8 2.7 170.0 57.5 1.2 51.0 96.7 3.4 111.0 85.2 2.7 171.0 57.3 1.2 52.0 96.6 3.4 112.0 84.7 2.6 172.0 57.2 1.2 53.0 96.5 3.4 113.0 84.2 2.6 173.0 57.1 1.2 54.0 96.4 3.4 114.0 83.6 2.6 174.0 57.0 1.2 55.0 96.3 3.4 115.0 83.1 2.5 175.0 56.9 1.2									
49.0 96.9 3.5 109.0 86.3 2.7 169.0 57.6 1.2 50.0 96.8 3.5 110.0 85.8 2.7 170.0 57.5 1.2 51.0 96.7 3.4 111.0 85.2 2.7 171.0 57.3 1.2 52.0 96.6 3.4 112.0 84.7 2.6 172.0 57.2 1.2 53.0 96.5 3.4 113.0 84.2 2.6 173.0 57.1 1.2 54.0 96.4 3.4 114.0 83.6 2.6 174.0 57.0 1.2 55.0 96.3 3.4 115.0 83.1 2.5 175.0 56.9 1.2									
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51.0 96.7 3.4 111.0 85.2 2.7 171.0 57.3 1.2 52.0 96.6 3.4 112.0 84.7 2.6 172.0 57.2 1.2 53.0 96.5 3.4 113.0 84.2 2.6 173.0 57.1 1.2 54.0 96.4 3.4 114.0 83.6 2.6 174.0 57.0 1.2 55.0 96.3 3.4 115.0 83.1 2.5 175.0 56.9 1.2									
52.0 96.6 3.4 112.0 84.7 2.6 172.0 57.2 1.2 53.0 96.5 3.4 113.0 84.2 2.6 173.0 57.1 1.2 54.0 96.4 3.4 114.0 83.6 2.6 174.0 57.0 1.2 55.0 96.3 3.4 115.0 83.1 2.5 175.0 56.9 1.2									
53.0 96.5 3.4 113.0 84.2 2.6 173.0 57.1 1.2 54.0 96.4 3.4 114.0 83.6 2.6 174.0 57.0 1.2 55.0 96.3 3.4 115.0 83.1 2.5 175.0 56.9 1.2									
54.0 96.4 3.4 114.0 83.6 2.6 174.0 57.0 1.2 55.0 96.3 3.4 115.0 83.1 2.5 175.0 56.9 1.2									
55.0 96.3 3.4 115.0 83.1 2.5 175.0 56.9 1.2									
560 062 24 1160 925 25 1760 560 42	55.0	96.3	3.4	115.0	83.1	2.5	175.0	56.9	1.2
ا ١١٥.٥ عن.٥ عن.٥ إ ١١٥.٥ عن.٥ إ ١٥.٠ عن.٥ عن.٥ عن.٥ عن.٥ عن.٥ عن.٥ عن.٥ عن.٥	56.0	96.2	3.4	116.0	82.5	2.5	176.0	56.9	1.2
57.0 96.1 3.4 117.0 81.9 2.5 177.0 56.8 1.2	57.0			117.0			177.0	56.8	1.2
58.0 96.0 3.4 118.0 81.3 2.4 178.0 56.8 1.2	58.0			118.0			178.0	56.8	1.2
59.0 95.9 3.4 119.0 80.8 2.4 179.0 56.8 1.2									

Horizontal diagram at 0.0° tilt (Total Antenna)

Az (°)	Er (%)	ERP (W)	Az (°)	Er (%)	ERP (W)	Az (°)	Er (%)	ERP (W)
180.0	56.8	1.2	240.0	80.5	2.4	300.0	95.7	3.4
181.0	56.8	1.2	241.0	81.1	2.4	301.0	95.8	3.4
182.0	56.8	1.2	242.0	81.7	2.5	302.0	96.0	3.4
183.0	56.8	1.2	243.0	82.2	2.5	303.0	96.1	3.4
184.0	56.9	1.2	244.0	82.8	2.5	304.0	96.2	3.4
185.0	56.9	1.2	245.0	83.4	2.6	305.0	96.3	3.4
186.0	57.0	1.2	246.0	83.9	2.6	306.0	96.5	3.4
187.0	57.1 57.2	1.2	247.0	84.5	2.6	307.0	96.6	3.4
188.0 189.0	57.2 57.3	1.2 1.2	248.0 249.0	85.0 85.5	2.7 2.7	308.0 309.0	96.7 96.8	3.4 3.5
190.0	57.5	1.2	250.0	86.0	2.7	310.0	97.0	3.5
191.0	57.6	1.2	251.0	86.5	2.8	311.0	97.1	3.5
192.0	57.8	1.2	252.0	87.0	2.8	312.0	97.2	3.5
193.0	58.0	1.2	253.0	87.5	2.8	313.0	97.2	3.5
194.0	58.2	1.2	254.0	87.9	2.8	314.0	97.3	3.5
195.0	58.4	1.3	255.0	88.4	2.9	315.0	97.4	3.5
196.0	58.6	1.3	256.0	88.8	2.9	316.0	97.5	3.5
197.0	58.9	1.3	257.0	89.2	2.9	317.0	97.5	3.5
198.0	59.2	1.3	258.0	89.6	3.0	318.0	97.6	3.5
199.0	59.4	1.3	259.0	90.0	3.0	319.0	97.7	3.5
200.0	59.7	1.3	260.0	90.3	3.0	320.0	97.8	3.5
201.0	60.0	1.3	261.0	90.6	3.0	321.0	97.8	3.5
202.0	60.4	1.3	262.0	91.0	3.0	322.0	97.9	3.5
203.0	60.7	1.4	263.0	91.2	3.1	323.0	98.0	3.5
204.0	61.1	1.4	264.0	91.5	3.1	324.0	98.0	3.5
205.0	61.4	1.4	265.0	91.8	3.1	325.0	98.1	3.5
206.0	61.8	1.4	266.0	92.0	3.1	326.0	98.2	3.6
207.0	62.2	1.4	267.0	92.2	3.1	327.0	98.3	3.6
208.0 209.0	62.6 63.1	1.4 1.5	268.0 269.0	92.4 92.5	3.1 3.2	328.0 329.0	98.3 98.4	3.6 3.6
210.0	63.5	1.5	270.0	92.6	3.2	330.0	98.5	3.6
211.0	64.0	1.5	271.0	92.7	3.2	331.0	98.5	3.6
212.0	64.4	1.5	272.0	92.8	3.2	332.0	98.6	3.6
213.0	64.9	1.6	273.0	92.9	3.2	333.0	98.7	3.6
214.0	65.4	1.6	274.0	93.0	3.2	334.0	98.7	3.6
215.0	65.9	1.6	275.0	93.1	3.2	335.0	98.8	3.6
216.0	66.4	1.6	276.0	93.2	3.2	336.0	98.9	3.6
217.0	66.9	1.6	277.0	93.3	3.2	337.0	98.9	3.6
218.0	67.4	1.7	278.0	93.4	3.2	338.0	99.0	3.6
219.0	68.0	1.7	279.0	93.5	3.2	339.0	99.1	3.6
220.0	68.5	1.7	280.0	93.6	3.2	340.0	99.1	3.6
221.0	69.1	1.8	281.0	93.7	3.2	341.0	99.2	3.6
222.0	69.7	1.8	282.0	93.8	3.2	342.0	99.3	3.6
223.0	70.2	1.8	283.0	93.9	3.2	343.0	99.4	3.6
224.0	70.8	1.8	284.0	94.0	3.3	344.0	99.4	3.6
225.0 226.0	71.4 72.0	1.9	285.0	94.1 94.2	3.3	345.0 346.0	99.5 99.5	3.6
226.0	72.0 72.6	1.9 1.9	286.0 287.0	94.2 94.3	3.3 3.3	346.0	99.5 99.5	3.6 3.6
228.0	73.2	2.0	288.0	94.3 94.4	3.3	348.0	99.6	3.7
229.0	73.8	2.0	289.0	94.5	3.3	349.0	99.6	3.7
230.0	74.4	2.0	290.0	94.6	3.3	350.0	99.6	3.7
231.0	75.0	2.1	291.0	94.7	3.3	351.0	99.7	3.7
232.0	75.6	2.1	292.0	94.8	3.3	352.0	99.7	3.7
233.0	76.2	2.1	293.0	94.9	3.3	353.0	99.7	3.7
234.0	76.8	2.2	294.0	95.0	3.3	354.0	99.8	3.7
235.0	77.4	2.2	295.0	95.1	3.3	355.0	99.8	3.7
236.0	78.0	2.2	296.0	95.2	3.3	356.0	99.9	3.7
237.0	78.6	2.3	297.0	95.3	3.3	357.0	99.9	3.7
238.0	79.3	2.3	298.0	95.4	3.4	358.0	99.9	3.7
239.0	79.9	2.3	299.0	95.6	3.4	359.0	100.0	3.7

Vertical diagram at an azimuth of 0.0°



Vertical diagram at an azimuth of 0.0°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
0.0	100.2	3.7	15.4	11.1	0.0	30.7	12.0	0.1
0.3	100.0	3.7	15.6	9.5	0.0	31.0	12.0	0.1
0.5	99.5	3.6	15.9	7.9	0.0	31.2	11.9	0.1
0.8	98.8	3.6	16.1	6.3	0.0	31.5	11.8	0.1
1.0	97.7	3.5	16.4	4.6	0.0	31.7	11.6	0.0
1.3	96.4	3.4	16.6	3.0	0.0	32.0	11.3	0.0
1.5	94.7	3.3	16.9	1.4	0.0	32.3	10.9	0.0
1.8	92.8	3.2	17.2	0.2	0.0	32.5	10.5	0.0
2.0	90.7	3.0	17.4	1.8	0.0	32.8	10.0	0.0
2.3	88.3	2.9	17.7	3.2	0.0	33.0	9.5	0.0
2.6 2.8	85.7 82.8	2.7 2.5	17.9 18.2	4.7 6.0	0.0 0.0	33.3 33.5	8.9 8.2	0.0 0.0
3.1	79.7	2.3	18.4	7.3	0.0	33.8	7.5	0.0
3.3	76.5	2.3	18.7	8.5	0.0	34.0	6.8	0.0
3.6	73.1	2.0	18.9	9.6	0.0	34.3	6.0	0.0
3.8	69.5	1.8	19.2	10.6	0.0	34.6	5.2	0.0
4.1	65.8	1.6	19.5	11.5	0.0	34.8	4.3	0.0
4.4	61.9	1.4	19.7	12.3	0.1	35.1	3.5	0.0
4.6	58.0	1.2	20.0	13.0	0.1	35.3	2.6	0.0
4.9	54.0	1.1	20.2	13.5	0.1	35.6	1.7	0.0
5.1	49.9	0.9	20.5	14.0	0.1	35.8	0.8	0.0
5.4	45.8	0.8	20.7	14.3	0.1	36.1	0.1	0.0
5.6	41.6	0.6	21.0	14.5	0.1	36.4	1.0	0.0
5.9	37.5	0.5	21.2	14.6	0.1	36.6	1.9	0.0
6.1	33.4	0.4	21.5	14.6	0.1	36.9	2.7	0.0
6.4	29.3	0.3	21.8	14.4	0.1	37.1	3.6	0.0
6.7	25.3	0.2	22.0	14.2	0.1	37.4	4.4	0.0
6.9	21.4	0.2	22.3	13.8	0.1	37.6	5.2	0.0
7.2	17.5	0.1	22.5	13.4	0.1	37.9	6.0	0.0
7.4	13.8	0.1	22.8	12.8	0.1	38.1	6.7	0.0
7.7	10.1	0.0	23.0	12.2	0.1	38.4	7.4	0.0
7.9	6.7	0.0	23.3	11.5	0.0	38.7	8.0	0.0
8.2	3.3	0.0	23.6	10.7	0.0	38.9	8.6	0.0
8.4	0.2	0.0	23.8	9.9	0.0	39.2	9.2	0.0
8.7	2.8	0.0	24.1	8.9	0.0	39.4	9.7	0.0
9.0	5.6	0.0	24.3	8.0	0.0	39.7	10.1	0.0
9.2	8.2	0.0	24.6	7.0	0.0	39.9	10.5	0.0
9.5	10.6	0.0	24.8	5.9	0.0	40.2	10.9	0.0
9.7	12.8	0.1	25.1	4.8	0.0	40.4	11.1	0.0
10.0	14.7	0.1	25.3	3.7	0.0	40.7	11.4	0.0
10.2	16.5	0.1	25.6	2.6	0.0	41.0	11.5	0.0
10.5 10.8	18.0 19.3	0.1 0.1	25.9 26.1	1.5 0.4	0.0 0.0	41.2 41.5	11.6 11.7	0.0 0.0
11.0	20.4	0.1	26.4	0.7	0.0	41.7	11.6	0.0
11.3	21.2	0.2	26.6	1.8	0.0	42.0	11.6	0.0
11.5	21.9	0.2	26.9	2.9	0.0	42.0	11.4	0.0
11.8	22.3	0.2	27.1	3.9	0.0	42.5	11.2	0.0
12.0	22.5	0.2	27.4	4.9	0.0	42.8	11.0	0.0
12.3	22.6	0.2	27.6	5.8	0.0	43.0	10.7	0.0
12.5	22.4	0.2	27.9	6.7	0.0	43.3	10.4	0.0
12.8	22.1	0.2	28.2	7.5	0.0	43.5	10.0	0.0
13.1	21.6	0.2	28.4	8.3	0.0	43.8	9.5	0.0
13.3	20.9	0.2	28.7	9.0	0.0	44.0	9.0	0.0
13.6	20.1	0.1	28.9	9.7	0.0	44.3	8.5	0.0
13.8	19.1	0.1	29.2	10.2	0.0	44.5	8.0	0.0
14.1	18.0	0.1	29.4	10.7	0.0	44.8	7.4	0.0
14.3	16.8	0.1	29.7	11.1	0.0	45.1	6.7	0.0
14.6	15.5	0.1	30.0	11.5	0.0	45.3	6.1	0.0
14.8	14.1	0.1	30.2	11.7	0.1	45.6	5.4	0.0
15.1	12.6	0.1	30.5	11.9	0.1	45.8	4.7	0.0

Vertical diagram at an azimuth of 0.0°

46.1 3.9 0.0 61.4 1.5 0.0 76.8 18.5 0.1 46.6 2.4 0.0 62.0 0.2 0.0 77.1 18.4 0.1 46.6 2.4 0.0 62.0 0.2 0.0 77.3 18.3 0.1 47.1 0.8 0.0 62.5 1.2 0.0 77.6 18.2 0.1 47.1 0.8 0.0 62.5 1.2 0.0 77.8 18.1 0.1 47.6 0.7 0.0 63.0 2.6 0.0 78.3 17.8 0.1 47.6 0.7 0.0 63.0 2.6 0.0 78.3 17.8 0.1 47.6 0.7 0.0 63.2 3.2 0.0 78.6 17.7 0.1 48.1 2.3 0.0 63.5 3.9 0.0 78.8 17.6 0.1 48.6 3.8 0.0 0.6 63.5 3.9 0.0 78.8 17.6 0.1 48.6 3.8 0.0 0.6 63.7 4.6 0.0 79.1 17.4 0.1 48.6 3.8 0.0 0.6 64.2 6.5 0.0 79.4 17.2 0.1 49.2 6.3 0.0 64.6 6.5 6.5 0.0 79.4 17.2 0.1 49.4 6.0 0.0 64.6 6.5 6.5 0.0 79.9 17.2 0.1 49.7 6.7 0.0 65.3 8.3 0.0 80.6 16.7 0.1 49.8 7.3 0.0 65.3 8.3 0.0 80.6 16.6 0.1 50.4 8.6 0.0 0.0 65.8 9.5 0.0 80.9 16.4 0.1 50.4 8.6 0.0 0.0 66.8 9.5 0.0 80.9 16.4 0.1 50.4 8.6 0.0 0.0 66.8 9.5 0.0 80.9 16.4 0.1 50.4 8.6 0.0 0.0 66.8 11.1 0.0 80.9 16.4 0.1 50.5 9.7 0.1 0.0 66.8 11.6 0.0 80.9 16.4 0.1 50.2 8.0 0.0 0.6 68.8 11.6 0.0 80.9 16.4 0.1 50.4 8.6 0.0 0.0 66.8 11.6 0.0 80.9 16.4 0.1 50.7 9.1 0.0 66.8 11.6 0.0 80.9 16.4 0.1 50.8 9.7 0.0 66.8 11.6 0.0 80.9 16.4 0.1 50.2 10.2 0.0 0.0 66.8 11.6 0.0 80.9 16.4 0.1 50.5 17.5 0.0 0.0 67.3 12.6 0.1 82.7 15.8 0.1 50.7 1.1 0.0 67.3 12.6 0.1 82.7 15.4 0.1 50.8 17.7 0.1 0.0 66.8 11.5 0.1 82.7 15.4 0.1 50.2 11.5 0.0 67.3 12.6 0.1 82.7 15.4 0.1 50.3 12.2 0.1 67.6 13.1 0.1 82.9 15.0 0.1 50.3 12.2 0.1 67.6 13.1 0.1 82.9 15.0 0.1 50.3 12.2 0	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
46.6 24. 0.0 62.0 0.2 0.0 77.3 18.3 0.1 47.1 0.8 0.0 62.2 0.5 0.0 77.6 18.2 0.1 47.1 0.8 0.0 62.5 1.2 0.0 77.6 18.0 0.1 47.6 0.7 0.0 63.0 2.6 0.0 78.1 18.0 0.1 47.6 0.7 0.0 63.0 2.6 0.0 78.1 18.0 0.1 47.8 1.5 0.0 63.2 3.2 0.0 78.6 17.7 0.1 48.1 2.3 0.0 63.5 3.9 0.0 78.6 17.7 0.1 48.1 2.3 0.0 63.5 3.9 0.0 78.8 17.6 0.1 48.6 3.8 0.0 64.0 5.2 0.0 79.1 17.4 0.1 48.6 3.8 0.0 64.0 5.2 0.0 79.1 17.4 0.1 48.6 3.8 0.0 64.6 6.5 0.0 79.1 17.4 0.1 48.9 4.5 0.0 68.6 6.5 0.0 79.6 17.7 0.1 48.9 7.3 0.0 65.3 8.3 0.0 84.6 17.7 0.0 89.1 17.0 0.1 48.9 7.3 0.0 65.3 8.3 0.0 80.4 18.7 0.0 19.1 17.0 0.1 48.9 7.3 0.0 65.3 8.3 0.0 80.6 18.7 0.0 89.1 18.0 0.1 50.4 8.6 0.0 65.8 9.5 0.0 80.9 16.4 0.1 50.4 8.6 0.0 66.0 10.0 0.0 81.2 18.3 18.5 0.1 50.4 8.6 0.0 66.0 11.1 0.0 81.1 18.0 1.0 50.9 9.7 0.0 66.3 10.6 0.0 81.2 18.3 18.5 0.1 50.1 10.7 0.0 66.8 11.6 0.0 82.2 15.7 0.1 51.5 10.7 10.8 18.8 18.8 0.1 51.5 10.8 18.8 18.8 0.1 18	46.1	3.9	0.0	61.4	1.5	0.0	76.8	18.5	0.1
46.6 24. 0.0 62.0 0.2 0.0 77.3 18.3 0.1 47.1 0.8 0.0 62.2 0.5 0.0 77.6 18.2 0.1 47.1 0.8 0.0 62.5 1.2 0.0 77.6 18.0 0.1 47.6 0.7 0.0 63.0 2.6 0.0 78.1 18.0 0.1 47.6 0.7 0.0 63.0 2.6 0.0 78.1 18.0 0.1 47.8 1.5 0.0 63.2 3.2 0.0 78.6 17.7 0.1 48.1 2.3 0.0 63.5 3.9 0.0 78.6 17.7 0.1 48.1 2.3 0.0 63.5 3.9 0.0 78.8 17.6 0.1 48.6 3.8 0.0 64.0 5.2 0.0 79.1 17.4 0.1 48.6 3.8 0.0 64.0 5.2 0.0 79.1 17.4 0.1 48.6 3.8 0.0 64.6 6.5 0.0 79.1 17.4 0.1 48.9 4.5 0.0 68.6 6.5 0.0 79.6 17.7 0.1 48.9 7.3 0.0 65.3 8.3 0.0 84.6 17.7 0.0 89.1 17.0 0.1 48.9 7.3 0.0 65.3 8.3 0.0 80.4 18.7 0.0 19.1 17.0 0.1 48.9 7.3 0.0 65.3 8.3 0.0 80.6 18.7 0.0 89.1 18.0 0.1 50.4 8.6 0.0 65.8 9.5 0.0 80.9 16.4 0.1 50.4 8.6 0.0 66.0 10.0 0.0 81.2 18.3 18.5 0.1 50.4 8.6 0.0 66.0 11.1 0.0 81.1 18.0 1.0 50.9 9.7 0.0 66.3 10.6 0.0 81.2 18.3 18.5 0.1 50.1 10.7 0.0 66.8 11.6 0.0 82.2 15.7 0.1 51.5 10.7 10.8 18.8 18.8 0.1 51.5 10.8 18.8 18.8 0.1 18	46.3	3.2	0.0	61.7	0.8	0.0	77.1	18.4	0.1
46.8			0.0						0.1
47.1 0.8 0.0 62.5 1.2 0.0 77.8 18.1 0.1 47.6 0.7 0.0 63.0 2.6 0.0 78.1 18.0 0.1 47.9 1.5 0.0 63.2 3.2 0.0 78.6 17.7 0.1 48.1 2.3 0.0 63.5 3.9 0.0 78.6 17.7 0.1 48.4 2.3 0.0 63.5 3.9 0.0 78.6 17.7 0.1 48.6 3.8 0.0 64.0 5.2 0.0 79.4 17.3 0.1 48.9 4.5 0.0 64.5 6.5 0.0 79.9 17.0 0.1 49.7 6.7 0.0 65.0 7.7 0.0 80.1 16.9 0.1 49.7 6.7 0.0 65.0 7.7 0.0 80.4 16.7 0.1 49.7 6.7 0.0 65.5 8.9 0.0									
47.4 0.1 0.0 62.7 1.9 0.0 78.3 17.8 0.1 47.9 1.5 0.0 63.2 3.2 0.0 78.6 17.7 0.1 48.1 2.3 0.0 63.5 3.9 0.0 78.6 17.7 0.1 48.4 3.0 0.0 63.7 4.6 0.0 79.1 17.4 0.1 48.6 3.8 0.0 64.0 5.2 0.0 79.4 17.3 0.1 48.9 4.5 0.0 64.3 5.9 0.0 79.6 17.2 0.1 49.2 5.3 0.0 64.8 7.1 0.0 80.1 16.7 0.1 49.7 6.7 0.0 65.3 8.3 0.0 80.4 16.7 0.1 49.9 7.3 0.0 65.3 8.3 0.0 80.9 16.4 0.1 50.4 8.6 0.0 65.8 9.5 0.0									
47.6 0.7 0.0 63.0 2.6 0.0 78.3 17.8 0.1 48.1 2.3 0.0 63.5 3.9 0.0 78.6 17.7 0.1 48.4 2.3 0.0 63.5 3.9 0.0 78.6 17.7 0.1 48.6 3.8 0.0 64.0 5.2 0.0 79.4 17.3 0.1 48.9 4.5 0.0 64.5 6.5 0.0 79.9 17.0 0.1 49.4 6.0 0.0 64.5 6.5 0.0 79.9 17.0 0.1 49.7 6.7 0.0 65.0 7.7 0.0 80.4 16.7 0.1 49.7 6.7 0.0 65.0 7.7 0.0 80.4 16.7 0.1 49.9 7.3 0.0 65.5 8.9 0.0 80.9 16.4 0.1 50.2 8.0 0.0 65.5 8.9 0.0									
479 1.5 0.0 63.2 3.2 0.0 78.8 17.6 0.1 48.4 3.0 0.0 63.7 4.6 0.0 79.1 17.4 0.1 48.6 3.8 0.0 64.0 5.2 0.0 79.4 17.3 0.1 48.9 4.5 0.0 64.3 5.9 0.0 79.6 17.2 0.1 49.2 5.3 0.0 64.5 6.5 0.0 79.9 17.0 0.1 49.4 6.0 0.0 64.8 7.1 0.0 80.1 16.7 0.1 49.7 6.7 0.0 65.3 8.3 0.0 80.4 16.7 0.1 49.9 7.3 0.0 65.8 9.5 0.0 80.9 16.4 0.1 50.4 8.6 0.0 65.8 9.5 0.0 81.2 16.3 0.1 50.4 8.6 0.0 66.3 10.6 0.0									
48.1 2.3 0.0 63.5 3.9 0.0 78.8 17.6 0.1 48.6 3.8 0.0 64.0 5.2 0.0 79.4 17.3 0.1 48.9 4.5 0.0 64.3 5.9 0.0 79.4 17.3 0.1 48.9 5.3 0.0 64.5 6.5 0.0 79.9 17.0 0.1 49.7 6.7 0.0 65.0 7.7 0.0 80.4 16.7 0.1 49.7 6.7 0.0 65.5 8.9 0.0 80.4 16.7 0.1 49.9 7.3 0.0 65.5 8.9 0.0 80.9 16.6 0.1 50.2 8.0 0.0 65.8 9.5 0.0 80.9 16.4 0.1 50.7 9.1 0.0 66.0 10.0 0.0 81.2 16.3 0.1 50.7 9.1 0.0 66.6 11.1 0.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
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612 22 00 10 1 765 106 04 1 040 400 04	61.2	2.9	0.0	76.5	18.6	0.1	91.9	12.9	0.1