```
# datove krivky: hodina [h] & azimut [deg] & vyska [deg] stredniho slunce
# & x [cm] & y [cm] poloha prumetu nodu na ciselniku & vzdalenost prumetu
# od nodu [cm]
# l =  90.000 deg
 7.0000  265.241  27.216   -1287.       -691.2       -1444.
 7.1667  267.099  28.820   -490.8       -299.6       -557.9
 7.3333  268.983  30.426   -302.0       -207.1       -348.4
 7.5000  270.897  32.033   -217.2       -165.8       -254.9
 7.6667  272.846  33.639   -168.9       -142.6       -202.0
 7.8333  274.835  35.242   -137.5       -127.6       -168.1
 8.0000  276.870  36.840   -115.5       -117.3       -144.6
 8.1667  278.956  38.432   -99.06       -109.8       -127.3
 8.3333  281.099  40.014   -86.30       -104.1       -114.2
 8.5000  283.308  41.585   -76.05       -99.62       -103.9
 8.6667  285.589  43.141   -67.61       -96.07       -95.68
 8.8333  287.950  44.680   -60.49       -93.19       -88.95
 9.0000  290.402  46.197   -54.39       -90.83       -83.39
 9.1667  292.952  47.691   -49.06       -88.87       -78.74
 9.3333  295.612  49.155   -44.36       -87.24       -74.82
 9.5000  298.393  50.587   -40.14       -85.88       -71.50
 9.6667  301.306  51.981   -36.33       -84.74       -68.67
 9.8333  304.363  53.331   -32.84       -83.79       -66.26
10.0000  307.577  54.632   -29.62       -83.01       -64.22
10.1667  310.959  55.876   -26.61       -82.36       -62.48
10.3333  314.520  57.056   -23.79       -81.85       -61.02
10.5000  318.269  58.165   -21.11       -81.45       -59.80
10.6667  322.215  59.193   -18.55       -81.15       -58.81
10.8333  326.360  60.131   -16.09       -80.96       -58.02
11.0000  330.703  60.970   -13.71       -80.85       -57.43
11.1667  335.237  61.701   -11.38       -80.84       -57.01
11.3333  339.947  62.313   -9.092       -80.91       -56.77
11.5000  344.812  62.800   -6.826       -81.07       -56.69
11.6667  349.801  63.153   -4.565       -81.31       -56.79
11.8333  354.878  63.367   -2.296       -81.65       -57.06
12.0000  360.000  63.439  -0.1455E-07   -82.07       -57.50
12.1667    5.122  63.367    2.339       -82.60       -58.13
12.3333   10.199  63.153    4.738       -83.23       -58.94
12.5000   15.188  62.800    7.220       -83.98       -59.97
12.6667   20.053  62.313    9.805       -84.85       -61.22
12.8333   24.763  61.701    12.52       -85.86       -62.72
13.0000   29.297  60.970    15.40       -87.03       -64.50
13.1667   33.640  60.131    18.47       -88.39       -66.59
13.3333   37.785  59.193    21.78       -89.95       -69.06
13.5000   41.731  58.165    25.40       -91.77       -71.95
13.6667   45.480  57.056    29.37       -93.88       -75.35
13.8333   49.041  55.876    33.80       -96.34       -79.37
14.0000   52.423  54.632    38.80       -99.25       -84.14
14.1667   55.637  53.331    44.53       -102.7       -89.86
14.3333   58.694  51.981    51.20       -106.9       -96.78
14.5000   61.607  50.587    59.12       -112.0       -105.3
14.6667   64.388  49.155    68.74       -118.3       -115.9
14.8333   67.048  47.691    80.74       -126.5       -129.6
15.0000   69.598  46.197    96.24       -137.1       -147.6
15.1667   72.050  44.680    117.2       -151.8       -172.3
15.3333   74.411  43.141    147.2       -173.1       -208.3
15.5000   76.692  41.585    194.1       -206.7       -265.2
15.6667   78.901  40.014    278.4       -267.6       -368.5
15.8333   81.044  38.432    476.4       -411.3       -612.5
16.0000   83.130  36.840    1508.       -1163.       -1888.

# l = 180.000 deg
 5.5000  264.241  -4.813  -0.1039E+05    843.8      -0.1042E+05
 5.6667  266.166  -3.212   -711.7        9.169       -710.6
 5.8333  268.084  -1.607   -369.8       -20.32       -368.2
```

6.0000	270.000	0.000	-250.1	-30.64	-248.8
6.1667	271.916	1.607	-189.0	-35.92	-188.1
6.3333	273.834	3.212	-151.7	-39.13	-151.5
6.5000	275.759	4.813	-126.6	-41.30	-127.0
6.6667	277.693	6.409	-108.4	-42.86	-109.5
6.8333	279.638	7.997	-94.62	-44.05	-96.41
7.0000	281.599	9.577	-83.76	-44.99	-86.26
7.1667	283.579	11.145	-74.95	-45.75	-78.17
7.3333	285.579	12.700	-67.64	-46.38	-71.60
7.5000	287.605	14.240	-61.45	-46.92	-66.16
7.6667	289.657	15.763	-56.12	-47.38	-61.60
7.8333	291.741	17.266	-51.48	-47.78	-57.73
8.0000	293.859	18.747	-47.37	-48.13	-54.41
8.1667	296.013	20.204	-43.71	-48.45	-51.55
8.3333	298.209	21.635	-40.41	-48.73	-49.06
8.5000	300.447	23.036	-37.40	-48.99	-46.89
8.6667	302.732	24.404	-34.64	-49.23	-44.98
8.8333	305.067	25.738	-32.10	-49.45	-43.31
9.0000	307.454	27.034	-29.73	-49.65	-41.82
9.1667	309.895	28.289	-27.52	-49.84	-40.52
9.3333	312.394	29.499	-25.43	-50.02	-39.36
9.5000	314.952	30.661	-23.46	-50.19	-38.34
9.6667	317.571	31.772	-21.59	-50.35	-37.44
9.8333	320.252	32.828	-19.80	-50.51	-36.65
10.0000	322.995	33.826	-18.07	-50.66	-35.96
10.1667	325.802	34.761	-16.41	-50.80	-35.36
10.3333	328.670	35.631	-14.80	-50.94	-34.84
10.5000	331.599	36.431	-13.24	-51.07	-34.41
10.6667	334.586	37.159	-11.71	-51.21	-34.05
10.8333	337.628	37.809	-10.20	-51.34	-33.76
11.0000	340.721	38.381	-8.726	-51.46	-33.54
11.1667	343.859	38.870	-7.263	-51.59	-33.38
11.3333	347.038	39.273	-5.812	-51.72	-33.29
11.5000	350.248	39.590	-4.365	-51.84	-33.26
11.6667	353.485	39.817	-2.918	-51.96	-33.30
11.8333	356.738	39.954	-1.465	-52.09	-33.40
12.0000	360.000	40.000	-0.1094E-07	-52.22	-33.56
12.1667	3.262	39.954	1.482	-52.34	-33.80
12.3333	6.515	39.817	2.987	-52.47	-34.09
12.5000	9.752	39.590	4.523	-52.61	-34.47
12.6667	12.962	39.273	6.095	-52.74	-34.91
12.8333	16.141	38.870	7.711	-52.88	-35.44
13.0000	19.279	38.381	9.380	-53.03	-36.05
13.1667	22.372	37.809	11.11	-53.17	-36.76
13.3333	25.414	37.159	12.92	-53.33	-37.56
13.5000	28.401	36.431	14.80	-53.49	-38.48
13.6667	31.330	35.631	16.79	-53.66	-39.52
13.8333	34.198	34.761	18.89	-53.85	-40.70
14.0000	37.005	33.826	21.13	-54.04	-42.03
14.1667	39.748	32.828	23.52	-54.24	-43.54
14.3333	42.429	31.772	26.09	-54.47	-45.25
14.5000	45.048	30.661	28.88	-54.71	-47.19
14.6667	47.606	29.499	31.93	-54.97	-49.41
14.8333	50.105	28.289	35.28	-55.26	-51.95
15.0000	52.546	27.034	39.00	-55.58	-54.87
15.1667	54.933	25.738	43.18	-55.94	-58.26
15.3333	57.268	24.404	47.92	-56.35	-62.22
15.5000	59.553	23.036	53.35	-56.82	-66.90
15.6667	61.791	21.635	59.69	-57.36	-72.48
15.8333	63.987	20.204	67.19	-58.01	-79.25
16.0000	66.141	18.747	76.26	-58.79	-87.59
16.1667	68.259	17.266	87.49	-59.76	-98.11
16.3333	70.343	15.763	101.8	-61.00	-111.7
16.5000	72.395	14.240	120.8	-62.64	-130.1

16.6667	74.421	12.700	147.3	-64.92	-155.9
16.8333	76.421	11.145	187.0	-68.35	-195.1
17.0000	78.401	9.577	253.6	-74.09	-261.2
17.1667	80.362	7.997	388.8	-85.75	-396.1
17.3333	82.307	6.409	814.5	-122.5	-822.7

l = 270.000 deg

4.1667	265.165	-35.242	-1379.	942.0	-1686.
4.3333	267.154	-33.639	-482.1	288.8	-576.7
4.5000	269.103	-32.033	-294.8	152.9	-346.0
4.6667	271.017	-30.426	-213.5	94.08	-246.3
4.8333	272.901	-28.820	-167.8	61.33	-190.8
5.0000	274.759	-27.216	-138.5	40.47	-155.5
5.1667	276.595	-25.617	-118.1	26.04	-131.1
5.3333	278.413	-24.024	-102.9	15.47	-113.3
5.5000	280.217	-22.439	-91.15	7.404	-99.68
5.6667	282.009	-20.862	-81.78	1.054	-89.00
5.8333	283.793	-19.295	-74.10	-4.071	-80.41
6.0000	285.572	-17.741	-67.66	-8.289	-73.36
6.1667	287.349	-16.200	-62.18	-11.82	-67.47
6.3333	289.125	-14.674	-57.43	-14.81	-62.50
6.5000	290.904	-13.164	-53.27	-17.38	-58.25
6.6667	292.688	-11.672	-49.58	-19.60	-54.58
6.8333	294.479	-10.199	-46.27	-21.54	-51.38
7.0000	296.279	-8.747	-43.29	-23.25	-48.59
7.1667	298.091	-7.318	-40.57	-24.77	-46.12
7.3333	299.915	-5.913	-38.08	-26.12	-43.94
7.5000	301.755	-4.533	-35.79	-27.32	-42.00
7.6667	303.612	-3.180	-33.65	-28.41	-40.26
7.8333	305.487	-1.857	-31.67	-29.39	-38.70
8.0000	307.382	-0.564	-29.80	-30.27	-37.31
8.1667	309.299	0.696	-28.04	-31.08	-36.05
8.3333	311.238	1.923	-26.38	-31.81	-34.91
8.5000	313.200	3.113	-24.80	-32.48	-33.89
8.6667	315.188	4.265	-23.29	-33.09	-32.96
8.8333	317.201	5.377	-21.84	-33.65	-32.12
9.0000	319.240	6.448	-20.46	-34.16	-31.37
9.1667	321.306	7.475	-19.12	-34.63	-30.68
9.3333	323.400	8.456	-17.83	-35.06	-30.07
9.5000	325.520	9.390	-16.58	-35.46	-29.52
9.6667	327.668	10.275	-15.36	-35.82	-29.03
9.8333	329.843	11.109	-14.17	-36.15	-28.59
10.0000	332.044	11.889	-13.01	-36.45	-28.20
10.1667	334.270	12.615	-11.87	-36.73	-27.86
10.3333	336.522	13.284	-10.75	-36.98	-27.57
10.5000	338.796	13.895	-9.641	-37.20	-27.31
10.6667	341.092	14.446	-8.551	-37.40	-27.11
10.8333	343.409	14.936	-7.471	-37.58	-26.94
11.0000	345.744	15.363	-6.400	-37.74	-26.81
11.1667	348.094	15.727	-5.334	-37.88	-26.72
11.3333	350.459	16.026	-4.271	-38.00	-26.66
11.5000	352.834	16.259	-3.208	-38.10	-26.65
11.6667	355.218	16.427	-2.144	-38.18	-26.67
11.8333	357.608	16.527	-1.075	-38.24	-26.73
12.0000	360.000	16.561	-0.9263E-08	-38.29	-26.82
12.1667	2.392	16.527	1.085	-38.31	-26.96
12.3333	4.782	16.427	2.181	-38.31	-27.13
12.5000	7.166	16.259	3.293	-38.30	-27.35
12.6667	9.541	16.026	4.422	-38.26	-27.61
12.8333	11.906	15.727	5.571	-38.21	-27.91
13.0000	14.256	15.363	6.745	-38.13	-28.25
13.1667	16.591	14.936	7.946	-38.03	-28.65
13.3333	18.908	14.446	9.179	-37.90	-29.10
13.5000	21.204	13.895	10.45	-37.75	-29.60

13.6667	23.478	13.284	11.76	-37.57	-30.16
13.8333	25.730	12.615	13.11	-37.36	-30.78
14.0000	27.956	11.889	14.51	-37.13	-31.47
14.1667	30.157	11.109	15.98	-36.85	-32.24
14.3333	32.332	10.275	17.51	-36.54	-33.09
14.5000	34.480	9.390	19.11	-36.19	-34.03
14.6667	36.600	8.456	20.79	-35.80	-35.07
14.8333	38.694	7.475	22.57	-35.35	-36.22
15.0000	40.760	6.448	24.46	-34.85	-37.50
15.1667	42.799	5.377	26.47	-34.29	-38.92
15.3333	44.812	4.265	28.62	-33.65	-40.50
15.5000	46.800	3.113	30.93	-32.94	-42.27
15.6667	48.762	1.923	33.43	-32.13	-44.24
15.8333	50.701	0.696	36.15	-31.21	-46.46
16.0000	52.618	-0.564	39.12	-30.16	-48.98
16.1667	54.513	-1.857	42.40	-28.96	-51.83
16.3333	56.388	-3.180	46.05	-27.59	-55.08
16.5000	58.245	-4.533	50.13	-25.99	-58.83
16.6667	60.085	-5.913	54.76	-24.13	-63.18
16.8333	61.909	-7.318	60.06	-21.95	-68.27
17.0000	63.721	-8.747	66.20	-19.34	-74.31
17.1667	65.521	-10.199	73.45	-16.20	-81.56
17.3333	67.312	-11.672	82.13	-12.35	-90.42
17.5000	69.096	-13.164	92.78	-7.536	-101.5
17.6667	70.875	-14.674	106.2	-1.368	-115.6
17.8333	72.651	-16.200	123.6	6.793	-134.2
18.0000	74.428	-17.741	147.4	18.06	-159.8
18.1667	76.207	-19.295	181.8	34.56	-197.3
18.3333	77.991	-20.862	236.3	60.94	-257.2
18.5000	79.783	-22.439	336.1	109.7	-367.6
18.6667	81.587	-24.024	580.0	229.3	-638.5
18.8333	83.405	-25.617	2105.	979.9	-2337.

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