

## SMĚROVÝ VÝPOČET DO KRUŽNIC

Verze: 2014

Datum zadání: 21.11.2017


Datum výpočtu: 21.11.2017 11:38:45

Projekt:HLINKY  
Trasa: 102.V12

Údaje o hlavních bodech směrového vedení trasy												
CB	IND	STA	YH	XH	sigma	R	YS	XS		T1	T2 (VZP)	alfat
CV	TP	DIF	YP	XP	sigp	A	YT	XT				
1	OT	17.300000	848589.556	1022344.937	269.12726	.000	.000	.000				
0	tečna	110.328	.000	.000	.00000	.000	.000	.000		.000	.000	.00000
2	TP	17.410328	848491.949	1022293.506	269.12726	.000	.000	.000				
1	klotoida	70.000	848491.949	1022293.506	269.12726	204.597	848450.656	1022271.747	46.675	23.341	3.72604	
3	PK	17.480328	848429.405	1022262.093	272.85330	598.000	848182.064	1022806.544				
1	kružnice	418.173	.000	.000	.00000	.000	848230.885	1022171.907	218.045	38.512	44.51796	
4	KP	17.898502	848020.907	1022230.669	317.37126	598.000	848182.064	1022806.544				
1	klotoida	70.000	847954.294	1022252.145	321.09729	-204.597	847998.429	1022236.959	23.341	46.675	3.72604	
5	PT	17.968502	847954.294	1022252.145	321.09729	.000	.000	.000				
0	tečna	292.292	.000	.000	.00000	.000	.000	.000	.000	.000	.00000	
6	TP	18.260794	847677.905	1022347.246	321.09729	.000	.000	.000				
2	klotoida	70.000	847677.905	1022347.246	321.09729	229.129	847633.773	1022362.432	46.672	23.338	-2.97089	
7	PK	18.330794	847611.374	1022368.987	318.12640	-750.000	847400.701	1021649.184				
2	kružnice	209.844	.000	.000	.00000	.000	847510.015	1022398.653	105.612	-7.399	-17.81212	
8	KP	18.540638	847404.404	1022399.175	300.31429	-750.000	847400.701	1021649.184				
2	klotoida	70.000	847334.435	1022397.343	297.34339	-229.129	847381.066	1022399.290	23.338	46.672	-2.97089	
9	PT	18.610638	847334.435	1022397.343	297.34339	.000	.000	.000				
0	tečna	97.366	.000	.000	.00000	.000	.000	.000	.000	.000	.00000	
10	TP	18.708004	847237.153	1022393.281	297.34339	.000	.000	.000				
3	klotoida	70.000	847237.153	1022393.281	297.34339	115.326	847190.444	1022391.331	46.750	23.409	-11.72721	
11	PK	18.778004	847167.630	1022386.087	285.61619	-190.000	847210.195	1022200.916				
3	kružnice	53.149	.000	.000	.00000	.000	847141.561	1022380.094	26.749	-1.874	-17.80818	
12	KP	18.831153	847118.160	1022367.137	267.80800	-190.000	847210.195	1022200.916				
3	klotoida	20.000	847101.015	1022356.843	264.45737	-61.644	847112.326	1022363.907	6.668	13.335	-3.35063	
13	PT	18.851153	847101.015	1022356.843	264.45737	.000	.000	.000				
0	tečna	7.787	.000	.000	.00000	.000	.000	.000	.000	.000	.00000	
14	TP	18.858940	847094.410	1022352.717	264.45737	.000	.000	.000				
4	klotoida	20.000	847094.410	1022352.717	264.45737	67.823	847083.101	1022345.653	13.335	6.668	2.76791	
15	PK	18.878940	847077.297	1022342.370	267.22528	230.000	846964.049	1022542.557				
4	kružnice	40.219	.000	.000	.00000	.000	847059.749	1022332.443	20.161	.882	11.13223	
16	KP	18.919159	847040.742	1022325.721	278.35752	230.000	846964.049	1022542.557				
4	klotoida	70.000	846972.794	1022309.201	288.04521	-126.886	847018.696	1022317.923	23.385	46.723	9.68769	
17	PT	18.989159	846972.794	1022309.201	288.04521	.000	.000	.000				
0	tečna	34.179	.000	.000	.00000	.000	.000	.000	.000	.000	.00000	
18	TP	19.023338	846939.216	1022302.820	288.04521	.000	.000	.000				
5	klotoida	70.000	846939.216	1022302.820	288.04521	221.359	846893.364	1022294.107	46.673	23.339	3.18310	
19	PK	19.093338	846870.246	1022290.901	291.22831	700.000	846774.101	1022984.267				
5	kružnice	61.142	.000	.000	.00000	.000	846839.946	1022286.700	30.590	.668	5.56060	
20	KP	19.154480	846809.394	1022285.157	296.78891	700.000	846774.101	1022984.267				
5	klotoida	70.000	846739.412	1022283.960	299.97201	-221.359	846786.085	1022283.981	23.339	46.673	3.18310	
21	PT	19.224480	846739.412	1022283.960	299.97201	.000	.000	.000				
0	tečna	1.415	.000	.000	.00000	.000	.000	.000	.000	.000	.00000	
22	TP	19.225894	846737.997	1022283.960	299.97201	.000	.000	.000				
6	klotoida	70.000	846737.997	1022283.960	299.97201	144.914	846691.297	1022283.939	46.700	23.364	-7.42723	
23	PK	19.295894	846668.094	1022281.209	292.54478	-300.000	846703.146	1021983.264				
6	kružnice	7.753	.000	.000	.00000	.000	846664.244	1022280.756	3.877	-.025	-1.64531	
24	KP	19.303648	846660.406	1022280.204	290.89947	-300.000	846703.146	1021983.264				
6	klotoida	70.000	846592.146	1022264.887	283.47224	-144.914	846637.281	1022276.876	23.364	46.700	-7.42723	
25	PT	19.373648	846592.146	1022264.887	283.47224	.000	.000	.000				
0	tečna	158.552	.000	.000	.00000	.000	.000	.000	.000	.000	.00000	
26	TP	19.532199	846438.908	1022224.185	283.47224	.000	.000	.000				
7	klotoida	40.000	846438.908	1022224.185	283.47224	95.917	846413.124	1022217.337	26.677	13.343	-5.53582	
27	PK	19.572199	846400.575	1022212.805	277.93642	-230.000	846478.701	1021996.480				
7	kružnice	92.882	.000	.000	.00000	.000	846356.292	1022196.812	47.082	-4.770	-25.70879	
28	KP	19.665081	846321.855	1022164.705	252.22763	-230.000	846478.701	1021996.480				
7	klotoida	40.000	846294.238	1022135.788	246.69181	-95.917	846312.096	1022155.606	13.343	26.677	-5.53582	

Výškový systém: Bpv

Souřadnicový systém: S-JTSK

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Schválil:	Zodp. projektant:	 VPÚ DECO PRAHA a.s. Podbabská 1014/20, 160 00, Praha 6
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Objednatel: KSÚS Karlovarského kraje	Obec: BOCHOV, HLINKY	Kraj: KARLOVARSKÝ	
Akce: II/208 MODERNIZACE SILNICE HLINKY-BOCHOV SO 103 – Modernizace silnice úsek 5 (extravilán Německý Chloumek – Bochov) Objekt: Příloha: STROJNÍ VÝPOČTY	Datum		Stupeň
	12/2017		DSP/PDPS
	Souprava		Č. přílohy
		7.	

29	PT	19.705081	846294.238	1022135.788	246.69181	.000	.000	.000			
0	tečna	2.461	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
30	TP	19.707542	846292.590	1022133.959	246.69181	.000	.000	.000			
8	klotoida	40.000	846292.590	1022133.959	246.69181	91.652	846274.730	1022114.139	26.679	13.345	6.06305
31	PK	19.747542	846264.895	1022105.120	252.75485	210.000	846122.965	1022259.897			
8	kružnice	89.785	.000	.000	.00000	.000	846231.294	1022074.309	45.589	4.892	27.21856
32	KP	19.837327	846187.942	1022060.203	279.97341	210.000	846122.965	1022259.897			
8	klotoida	70.000	846119.470	1022046.076	290.58374	-121.244	846165.695	1022052.964	23.395	46.735	10.61033
33	PT	19.907327	846119.470	1022046.076	290.58374	.000	.000	.000			
0	tečna	106.854	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
34	TP	20.014181	846013.783	1022030.329	290.58374	.000	.000	.000			
9	klotoida	70.000	846013.783	1022030.329	290.58374	264.575	845967.623	1022023.452	46.670	23.336	-2.22817
35	PK	20.084181	845944.676	1022019.207	288.35557	-1000.000	846126.568	1021035.888			
9	kružnice	13.760	.000	.000	.00000	.000	845937.911	1022017.955	6.880	-.024	-.87597
36	KP	20.097941	845931.164	1022016.611	287.47961	-1000.000	846126.568	1021035.888			
9	klotoida	70.000	845862.855	1022001.336	285.25144	-264.575	845908.278	1022012.051	23.336	46.670	-2.22817
37	PT	20.167941	845862.855	1022001.336	285.25144	.000	.000	.000			
0	tečna	119.000	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
38	TP	20.286941	845747.034	1021974.013	285.25144	.000	.000	.000			
10	klotoida	70.000	845747.034	1021974.013	285.25144	277.489	845701.612	1021963.297	46.669	23.336	2.02561
39	PK	20.356941	845678.740	1021958.665	287.27700	1100.000	845460.364	1023036.770			
10	kružnice	26.426	.000	.000	.00000	.000	845665.790	1021956.042	13.214	.079	1.52939
40	KP	20.383367	845652.780	1021953.730	288.80644	1100.000	845460.364	1023036.770			
10	klotoida	40.000	845613.315	1021947.211	289.96393	-209.762	845639.652	1021951.398	13.334	26.667	1.15749
41	PT	20.423367	845613.315	1021947.211	289.96393	.000	.000	.000			
0	tečna	6.915	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
42	TP	20.430282	845606.486	1021946.126	289.96393	.000	.000	.000			
11	klotoida	40.000	845606.486	1021946.126	289.96393	264.575	845580.150	1021941.939	26.667	13.333	.72757
43	PK	20.470282	845566.958	1021939.996	290.69149	1750.000	845311.988	1023671.323			
11	kružnice	195.583	.000	.000	.00000	.000	845470.110	1021925.734	97.893	2.736	7.11496
44	KP	20.665865	845372.275	1021922.361	297.80646	1750.000	845311.988	1023671.323			
11	klotoida	70.000	845302.291	1021920.883	299.07969	-350.000	845348.954	1021921.557	23.334	46.668	1.27324
45	PT	20.735865	845302.291	1021920.883	299.07970	.000	.000	.000			
0	tečna	147.418	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
46	TP	20.883282	845154.889	1021918.752	299.07970	.000	.000	.000			
12	klotoida	70.000	845154.889	1021918.752	299.07969	213.307	845108.220	1021918.077	46.674	23.340	-3.42795
47	PK	20.953282	845084.935	1021916.484	295.65174	-650.000	845129.297	1021268.000			
12	kružnice	98.166	.000	.000	.00000	.000	845035.873	1021913.128	49.176	-1.858	-9.61449
48	KP	21.051448	844987.875	1021902.429	286.03726	-650.000	845129.297	1021268.000			
12	klotoida	30.000	844958.698	1021895.452	284.56813	-139.642	844978.114	1021900.253	10.001	20.001	-1.46912
49	PT	21.081448	844958.698	1021895.452	284.56813	.000	.000	.000			
0	tečna	9.599	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
50	TP	21.091047	844949.380	1021893.148	284.56813	.000	.000	.000			
13	klotoida	60.000	844949.380	1021893.148	284.56813	181.659	844910.543	1021883.545	40.006	20.006	3.47247
51	PK	21.151047	844890.889	1021879.809	288.04061	550.000	844788.174	1022420.132			
13	kružnice	60.315	.000	.000	.00000	.000	844861.233	1021874.171	30.188	.828	6.98143
52	KP	21.211363	844831.137	1021871.813	295.02204	550.000	844788.174	1022420.132			
13	klotoida	60.000	844771.197	1021869.304	298.49451	-181.659	844811.192	1021870.250	20.006	40.006	3.47247
53	PT	21.271363	844771.197	1021869.304	298.49451	.000	.000	.000			
0	tečna	8.658	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
54	TP	21.280021	844762.541	1021869.099	298.49451	.000	.000	.000			
14	klotoida	70.000	844762.541	1021869.099	298.49451	344.964	844715.887	1021867.996	46.668	23.334	-1.31069
55	PK	21.350021	844692.575	1021866.964	297.18382	-1700.000	844767.753	1020168.627			
14	kružnice	241.102	.000	.000	.00000	.000	844571.940	1021861.624	120.754	-4.283	-9.02885
56	KP	21.591123	844453.270	1021839.286	288.15497	-1700.000	844767.753	1020168.627			
14	klotoida	70.000	844384.664	1021825.394	286.84428	-344.964	844430.339	1021834.969	23.334	46.668	-1.31069
57	PT	21.661123	844384.664	1021825.394	286.84429	.000	.000	.000			
0	tečna	56.236	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
58	TP	21.717359	844329.625	1021813.855	286.84429	.000	.000	.000			
15	klotoida	70.000	844329.625	1021813.855	286.84428	313.050	844283.950	1021804.280	46.668	23.335	1.59155
59	PK	21.787359	844260.999	1021800.064	288.43584	1400.000	844008.086	1023177.030			
15	kružnice	182.856	.000	.000	.00000	.000	844170.947	1021783.524	91.558	2.991	8.31500
60	KP	21.970215	844079.508	1021778.853	296.75083	1400.000	844008.086	1023177.030			
15	klotoida	70.000	844009.551	1021776.448	298.34238	-313.050	844056.203	1021777.663	23.335	46.668	1.59155
61	PT	22.040215	844009.551	1021776.448	298.34238	.000	.000	.000			
0	tečna	104.490	.000	.000	.00000	.000	.000	.000	.000	.000	.00000

62 TP	22.144705	843905.097	1021773.727	298.34238	.000	.000	.000			
16 klotoida	70.000	843905.097	1021773.727	298.34238	121.244	843858.378	1021772.511	46.735	23.395	-10.61033
63 PK	22.214705	843835.416	1021768.030	287.73205	-210.000	843875.634	1021561.917			
16 kružnice	20.171	.000	.000	.00000	.000	843825.510	1021766.097	10.093	-.242	-6.11476
64 KP	22.234875	843815.834	1021763.223	281.61729	-210.000	843875.634	1021561.917			
16 klotoida	35.000	843782.899	1021751.413	276.31213	-85.732	843804.643	1021759.899	11.674	23.342	-5.30516
65 PT	22.269875	843782.899	1021751.413	276.31213	.000	.000	.000			
0 tečna	.897	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
66 TP	22.270772	843782.063	1021751.086	276.31213	.000	.000	.000			
17 klotoida	35.000	843782.063	1021751.086	276.31213	89.722	843760.320	1021742.601	23.340	11.673	4.84385
67 PK	22.305772	843749.154	1021739.196	281.15598	230.000	843682.064	1021959.193			
17 kružnice	54.174	.000	.000	.00000	.000	843723.125	1021731.258	27.213	1.604	14.99485
68 KP	22.359946	843695.962	1021729.613	296.15083	230.000	843682.064	1021959.193			
17 klotoida	70.000	843626.093	1021732.479	305.83852	-126.886	843672.620	1021728.200	23.385	46.723	9.68769
69 PT	22.429946	843626.093	1021732.479	305.83852	.000	.000	.000			
0 tečna	42.741	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
70 TO	22.472687	843583.531	1021736.394	305.83852	.000	.000	.000			

Údaje o podrobných bodech trasy						
WB	STA	Y	X	sig	R	
** OT	17.300000	848589.556	1022344.937	269.12726	.000	
**	17.320000	848571.862	1022335.613	269.12726	.000	
**	17.340000	848554.168	1022326.290	269.12726	.000	
**	17.360000	848536.474	1022316.967	269.12726	.000	
**	17.380000	848518.780	1022307.644	269.12726	.000	
**	17.400000	848501.086	1022298.320	269.12726	.000	
TP	17.410328	848491.949	1022293.506	269.12726	.000	
**	17.420000	848483.391	1022289.000	269.19839	4328.123	
**	17.440000	848465.650	1022279.766	269.79674	1410.775	
**	17.460000	848447.781	1022270.784	271.00341	842.735	
**	17.480000	848429.704	1022262.229	272.81842	600.818	
PK	17.480328	848429.405	1022262.094	272.85326	598.003	
**	17.500000	848411.364	1022254.253	274.94750	598.000	
**	17.520000	848392.768	1022246.894	277.07667	598.000	
**	17.540000	848373.936	1022240.162	279.20583	598.000	
**	17.560000	848354.890	1022234.062	281.33499	598.000	
**	17.580000	848335.650	1022228.604	283.46416	598.000	
**	17.600000	848316.239	1022223.791	285.59332	598.000	
**	17.620000	848296.677	1022219.630	287.72248	598.000	
**	17.640000	848276.988	1022216.126	289.85165	598.000	
**	17.660000	848257.192	1022213.282	291.98081	598.000	
**	17.680000	848237.312	1022211.102	294.10997	598.000	
**	17.700000	848217.370	1022209.587	296.23914	598.000	
**	17.720000	848197.389	1022208.740	298.36830	598.000	
**	17.740000	848177.391	1022208.562	300.49746	598.000	
**	17.760000	848157.398	1022209.053	302.62662	598.000	
**	17.780000	848137.433	1022210.212	304.75579	598.000	
**	17.800000	848117.517	1022212.038	306.88495	598.000	
**	17.820000	848097.674	1022214.529	309.01411	598.000	
**	17.840000	848077.925	1022217.682	311.14328	598.000	
**	17.860000	848058.292	1022221.493	313.27244	598.000	
**	17.880000	848038.798	1022225.959	315.40160	598.000	
KP	17.898502	848020.907	1022230.669	317.37126	598.000	
**	17.900000	848019.464	1022231.074	317.52906	611.080	
**	17.920000	848000.301	1022236.795	319.30848	863.063	
**	17.940000	847981.275	1022242.959	320.47957	1468.685	
**	17.960000	847962.334	1022249.381	321.04233	4923.732	
PT	17.968502	847954.294	1022252.145	321.09729	.000	
**	17.980000	847943.421	1022255.886	321.09729	.000	
**	18.000000	847924.509	1022262.394	321.09729	.000	
**	18.020000	847905.598	1022268.901	321.09729	.000	
**	18.040000	847886.686	1022275.408	321.09729	.000	
**	18.060000	847867.774	1022281.915	321.09729	.000	
**	18.080000	847848.862	1022288.423	321.09729	.000	
**	18.100000	847829.951	1022294.930	321.09729	.000	
**	18.120000	847811.039	1022301.437	321.09729	.000	
**	18.140000	847792.127	1022307.944	321.09729	.000	
**	18.160000	847773.215	1022314.452	321.09729	.000	
**	18.180000	847754.303	1022320.959	321.09729	.000	
**	18.200000	847735.392	1022327.466	321.09729	.000	
**	18.220000	847716.480	1022333.973	321.09729	.000	
**	18.240000	847697.568	1022340.481	321.09729	.000	
**	18.260000	847678.656	1022346.988	321.09729	.000	
TP	18.260794	847677.905	1022347.246	321.09729	.000	
**	18.280000	847659.737	1022353.474	320.87365	-2733.539	
**	18.300000	847640.771	1022359.821	320.16534	-1339.085	
**	18.320000	847621.713	1022365.885	318.97199	-886.736	
PK	18.330794	847611.374	1022368.987	318.12641	-750.001	
**	18.340000	847602.523	1022371.519	317.34498	-750.000	
**	18.360000	847583.192	1022376.643	315.64733	-750.000	
**	18.380000	847563.730	1022381.251	313.94968	-750.000	
**	18.400000	847544.153	1022385.337	312.25202	-750.000	
**	18.420000	847524.473	1022388.900	310.55437	-750.000	
**	18.440000	847504.706	1022391.938	308.85672	-750.000	
**	18.460000	847484.864	1022394.447	307.15907	-750.000	
**	18.480000	847464.963	1022396.426	305.46141	-750.000	
**	18.500000	847445.016	1022397.874	303.76376	-750.000	

**		18.520000	847425.038	1022398.789	302.06611	-750.000
**		18.540000	847405.042	1022399.171	300.36846	-750.000
**	KP	18.540638	847404.404	1022399.175	300.31430	-750.000
**		18.560000	847385.043	1022399.044	298.89809	-1036.767
**		18.580000	847365.050	1022398.530	297.91253	-1713.548
**		18.600000	847345.064	1022397.783	297.41201	-4935.050
**	PT	18.610638	847334.435	1022397.343	297.34339	.000
**		18.620000	847325.081	1022396.952	297.34339	.000
**		18.640000	847305.098	1022396.118	297.34339	.000
**		18.660000	847285.116	1022395.284	297.34339	.000
**		18.680000	847265.133	1022394.449	297.34339	.000
**		18.700000	847245.151	1022393.615	297.34339	.000
**	TP	18.708004	847237.154	1022393.281	297.34339	.000
**		18.720000	847225.169	1022392.759	296.99900	-1108.721
**		18.740000	847205.207	1022391.536	294.89329	-415.680
**		18.760000	847185.330	1022389.355	290.87293	-255.790
**	PK	18.778004	847167.630	1022386.087	285.61625	-190.001
**		18.780000	847165.687	1022385.629	284.94747	-190.000
**		18.800000	847146.526	1022379.931	278.24621	-190.000
**		18.820000	847128.070	1022372.250	271.54494	-190.000
**	KP	18.831153	847118.160	1022367.137	267.80800	-190.000
**		18.840000	847110.507	1022362.699	265.49932	-340.717
**	PT	18.851153	847101.015	1022356.843	264.45737	.000
**	TP	18.858940	847094.411	1022352.718	264.45737	.000
**		18.860000	847093.512	1022352.156	264.46514	4341.082
**	PK	18.878940	847077.297	1022342.370	267.22518	230.004
**		18.880000	847076.374	1022341.851	267.51858	230.000
**		18.900000	847058.518	1022332.854	273.05441	230.000
**	KP	18.919159	847040.743	1022325.721	278.35745	230.000
**		18.920000	847039.949	1022325.442	278.58883	232.796
**		18.940000	847020.832	1022319.580	283.26734	327.507
**		18.960000	847001.391	1022314.896	286.36417	552.141
**		18.980000	846981.791	1022310.918	287.87935	1757.788
**	PT	18.989159	846972.794	1022309.201	288.04521	.000
**		19.000000	846962.144	1022307.177	288.04521	.000
**		19.020000	846942.495	1022303.443	288.04521	.000
**	TP	19.023338	846939.216	1022302.820	288.04521	.000
**		19.040000	846922.844	1022299.725	288.22556	2940.808
**		19.060000	846903.168	1022296.141	288.91836	1336.531
**		19.080000	846883.441	1022292.851	290.13085	864.776
**	PK	19.093338	846870.246	1022290.901	291.22831	700.000
**		19.100000	846863.643	1022290.018	291.83419	700.000
**		19.120000	846843.773	1022287.743	293.65311	700.000
**		19.140000	846823.847	1022286.037	295.47202	700.000
**	KP	19.154480	846809.394	1022285.157	296.78891	700.000
**		19.160000	846803.880	1022284.900	297.27114	759.926
**		19.180000	846783.890	1022284.279	298.68677	1101.620
**		19.200000	846763.892	1022284.021	299.58272	2001.638
**		19.220000	846743.892	1022283.963	299.95897	10937.624
**	PT	19.224480	846739.412	1022283.960	299.97201	.000
**	TP	19.225894	846737.998	1022283.960	299.97201	.000
**		19.240000	846723.892	1022283.931	299.67042	-1488.778
**		19.260000	846703.895	1022283.630	298.20890	-615.736
**		19.280000	846683.919	1022282.679	295.53476	-388.130
**	PK	19.295894	846668.094	1022281.209	292.54488	-300.002
**		19.300000	846664.020	1022280.702	291.67356	-300.000
**	KP	19.303648	846660.406	1022280.204	290.89947	-300.000
**		19.320000	846644.286	1022277.469	287.83473	-391.442
**		19.340000	846624.741	1022273.232	285.18835	-624.112
**		19.360000	846605.342	1022268.371	283.75457	-1538.710
**	PT	19.373648	846592.146	1022264.887	283.47224	.000
**		19.380000	846586.007	1022263.256	283.47224	.000
**		19.400000	846566.677	1022258.122	283.47224	.000
**		19.420000	846547.347	1022252.988	283.47224	.000
**		19.440000	846528.017	1022247.854	283.47224	.000
**		19.460000	846508.688	1022242.720	283.47224	.000
**		19.480000	846489.358	1022237.585	283.47224	.000
**		19.500000	846470.028	1022232.451	283.47224	.000
**		19.520000	846450.698	1022227.317	283.47224	.000
**	TP	19.532199	846438.908	1022224.185	283.47224	.000
**		19.540000	846431.371	1022222.174	283.26171	-1179.398
**		19.560000	846412.143	1022216.674	280.79819	-330.928
**	PK	19.572199	846400.575	1022212.805	277.93653	-230.002
**		19.580000	846393.284	1022210.031	275.77728	-230.000
**		19.600000	846375.061	1022201.806	270.24146	-230.000
**		19.620000	846357.620	1022192.029	264.70564	-230.000
**		19.640000	846341.095	1022180.775	259.16981	-230.000
**		19.660000	846325.610	1022168.128	253.63399	-230.000
**	KP	19.665081	846321.855	1022164.705	252.22763	-230.000
**		19.680000	846311.238	1022154.226	248.86826	-366.813
**		19.700000	846297.641	1022139.561	246.78113	-1810.691
**	PT	19.705081	846294.238	1022135.788	246.69181	.000
**	TP	19.707542	846292.590	1022133.959	246.69181	.000
**		19.720000	846284.222	1022124.730	247.27990	674.284
**		19.740000	846270.367	1022110.310	250.68394	258.799
**	PK	19.747542	846264.895	1022105.121	252.75475	210.002
**		19.760000	846255.469	1022096.978	256.53142	210.000
**		19.780000	846239.375	1022085.116	262.59447	210.000
**		19.800000	846222.227	1022074.838	268.65751	210.000
**		19.820000	846204.179	1022066.237	274.72056	210.000
**	KP	19.837327	846187.942	1022060.203	279.97328	210.000
**		19.840000	846185.395	1022059.392	280.76814	218.336
**		19.860000	846166.077	1022054.235	285.73355	310.602
**		19.880000	846146.463	1022050.332	288.96666	537.921
**		19.900000	846126.717	1022047.161	290.46748	2006.156
**	PT	19.907327	846119.470	1022046.076	290.58374	.000
**		19.920000	846106.936	1022044.209	290.58374	.000
**		19.940000	846087.154	1022041.261	290.58374	.000
**		19.960000	846067.373	1022038.314	290.58374	.000

**		19.980000	846047.591	1022035.367	290.58374	.000
**		20.000000	846027.810	1022032.419	290.58374	.000
**	TP	20.014181	846013.783	1022030.329	290.58374	.000
**		20.020000	846008.028	1022029.471	290.56834	-12029.961
**		20.040000	845988.252	1022026.484	290.28061	-2711.202
**		20.060000	845968.499	1022023.351	289.62910	-1527.757
**		20.080000	845948.789	1022019.959	288.61380	-1063.526
**	PK	20.084181	845944.677	1022019.207	288.35558	-1000.003
**	KP	20.097941	845931.164	1022016.611	287.47961	-1000.000
**		20.100000	845929.145	1022016.207	287.35044	-1030.308
**		20.120000	845909.574	1022012.087	286.29655	-1460.133
**		20.140000	845890.061	1022007.700	285.60644	-2505.295
**		20.160000	845870.584	1022003.158	285.28011	-8815.208
**	PT	20.167941	845862.855	1022001.336	285.25144	.000
**		20.180000	845851.118	1021998.567	285.25144	.000
**		20.200000	845831.652	1021993.975	285.25144	.000
**		20.220000	845812.186	1021989.383	285.25144	.000
**		20.240000	845792.721	1021984.791	285.25144	.000
**		20.260000	845773.255	1021980.199	285.25144	.000
**		20.280000	845753.789	1021975.606	285.25144	.000
**	TP	20.286941	845747.034	1021974.013	285.25144	.000
**		20.300000	845734.323	1021971.019	285.32194	5896.278
**		20.320000	845714.840	1021966.499	285.70323	2329.163
**		20.340000	845695.320	1021962.145	286.41524	1451.212
**	PK	20.356941	845678.740	1021958.665	287.27705	1100.000
**		20.360000	845675.741	1021958.062	287.45409	1100.000
**		20.380000	845656.094	1021954.324	288.61158	1100.000
**	KP	20.383367	845652.780	1021953.730	288.80643	1100.000
**		20.400000	845636.385	1021950.927	289.56892	1883.008
**		20.420000	845616.640	1021947.740	289.95572	13068.537
**	PT	20.423367	845613.315	1021947.211	289.96393	.000
**	TP	20.430282	845606.486	1021946.126	289.96393	.000
**		20.440000	845596.888	1021944.602	290.00687	7203.202
**		20.460000	845577.127	1021941.522	290.36552	2355.483
**	PK	20.470282	845566.959	1021939.996	290.69149	1750.004
**		20.480000	845557.340	1021938.607	291.04501	1750.000
**		20.500000	845537.522	1021935.916	291.77258	1750.000
**		20.520000	845517.675	1021933.452	292.50014	1750.000
**		20.540000	845497.800	1021931.215	293.22771	1750.000
**		20.560000	845477.902	1021929.205	293.95527	1750.000
**		20.580000	845457.982	1021927.423	294.68284	1750.000
**		20.600000	845438.042	1021925.868	295.41040	1750.000
**		20.620000	845418.086	1021924.542	296.13797	1750.000
**		20.640000	845398.117	1021923.443	296.86553	1750.000
**		20.660000	845378.136	1021922.573	297.59310	1750.000
**	KP	20.665865	845372.275	1021922.361	297.80645	1750.000
**		20.680000	845358.146	1021921.928	298.26875	2192.791
**		20.700000	845338.152	1021921.464	298.74546	3415.597
**		20.720000	845318.155	1021921.118	299.01429	7721.454
**	PT	20.735865	845302.291	1021920.883	299.07969	.000
**		20.740000	845298.157	1021920.823	299.07969	.000
**		20.760000	845278.159	1021920.534	299.07969	.000
**		20.780000	845258.161	1021920.245	299.07969	.000
**		20.800000	845238.163	1021919.956	299.07969	.000
**		20.820000	845218.165	1021919.667	299.07969	.000
**		20.840000	845198.167	1021919.377	299.07969	.000
**		20.860000	845178.169	1021919.088	299.07969	.000
**		20.880000	845158.171	1021918.799	299.07969	.000
**	TP	20.883282	845154.890	1021918.752	299.07969	.000
**		20.900000	845138.174	1021918.493	298.88418	-2721.689
**		20.920000	845118.179	1021918.040	298.13653	-1239.189
**		20.940000	845098.194	1021917.264	296.82922	-802.221
**	PK	20.953282	845084.935	1021916.484	295.65178	-650.004
**		20.960000	845078.236	1021915.991	294.99381	-650.000
**		20.980000	845058.325	1021914.113	293.03498	-650.000
**		21.000000	845038.481	1021911.624	291.07615	-650.000
**		21.020000	845018.723	1021908.526	289.11732	-650.000
**		21.040000	844999.070	1021904.821	287.15849	-650.000
**	KP	21.051448	844987.875	1021902.429	286.03726	-650.000
**		21.060000	844979.539	1021900.518	285.31905	-909.174
**		21.080000	844960.104	1021895.799	284.57156	-13466.524
**	PT	21.081448	844958.698	1021895.452	284.56813	.000
**	TP	21.091047	844949.380	1021893.148	284.56813	.000
**		21.100000	844940.688	1021891.002	284.64544	3686.071
**		21.120000	844921.245	1021886.317	285.37669	1139.793
**		21.140000	844901.722	1021881.974	286.87960	674.121
**	PK	21.151047	844890.890	1021879.809	288.04056	550.003
**		21.160000	844882.081	1021878.208	289.07686	550.000
**		21.180000	844862.317	1021875.152	291.39184	550.000
**		21.200000	844842.455	1021872.817	293.70682	550.000
**	KP	21.211363	844831.137	1021871.813	295.02204	550.000
**		21.220000	844822.521	1021871.202	295.94984	642.490
**		21.240000	844802.547	1021870.201	297.54574	1052.208
**		21.260000	844782.557	1021869.580	298.36997	2904.257
**	PT	21.271363	844771.197	1021869.304	298.49451	.000
**		21.280000	844762.562	1021869.100	298.49451	.000
**	TP	21.280021	844762.541	1021869.099	298.49451	.000
**		21.300000	844742.568	1021868.616	298.38774	-5956.278
**		21.320000	844722.576	1021868.064	298.06698	-2976.569
**		21.340000	844702.588	1021867.379	297.53223	-1984.030
**	PK	21.350021	844692.575	1021866.964	297.18382	-1700.002
**		21.360000	844682.607	1021866.493	296.81013	-1700.000
**		21.380000	844662.639	1021865.374	296.06116	-1700.000
**		21.400000	844642.685	1021864.020	295.31220	-1700.000
**		21.420000	844622.748	1021862.431	294.56324	-1700.000
**		21.440000	844602.832	1021860.608	293.81427	-1700.000
**		21.460000	844582.938	1021858.551	293.06531	-1700.000
**		21.480000	844563.070	1021856.260	292.31634	-1700.000
**		21.500000	844543.230	1021853.735	291.56738	-1700.000

**		21.520000	844523.421	1021850.977	290.81841	-1700.000
**		21.540000	844503.646	1021847.986	290.06945	-1700.000
**		21.560000	844483.907	1021844.763	289.32048	-1700.000
**		21.580000	844464.208	1021841.308	288.57152	-1700.000
**	KP	21.591123	844453.271	1021839.286	288.15498	-1700.000
**		21.600000	844444.551	1021837.622	287.84363	-1946.885
**		21.620000	844424.932	1021833.736	287.29664	-2893.737
**		21.640000	844405.341	1021829.715	286.96364	-5633.592
**		21.660000	844385.763	1021825.624	286.84462	-105938.885
**	PT	21.661123	844384.664	1021825.394	286.84428	.000
**		21.680000	844366.189	1021821.521	286.84428	.000
**		21.700000	844346.614	1021817.417	286.84428	.000
**	TP	21.717359	844329.625	1021813.855	286.84428	.000
**		21.720000	844327.040	1021813.313	286.84655	37105.611
**		21.740000	844307.461	1021809.229	287.01079	4328.410
**		21.760000	844287.864	1021805.235	287.43487	2298.252
**		21.780000	844268.233	1021801.412	288.11879	1564.468
**	PK	21.787359	844260.999	1021800.064	288.43583	1400.000
**		21.800000	844248.556	1021797.837	289.01066	1400.000
**		21.820000	844228.829	1021794.542	289.92012	1400.000
**		21.840000	844209.057	1021791.530	290.82958	1400.000
**		21.860000	844189.245	1021788.801	291.73903	1400.000
**		21.880000	844169.395	1021786.354	292.64849	1400.000
**		21.900000	844149.512	1021784.192	293.55795	1400.000
**		21.920000	844129.601	1021782.314	294.46740	1400.000
**		21.940000	844109.665	1021780.720	295.37686	1400.000
**		21.960000	844089.708	1021779.412	296.28632	1400.000
**	KP	21.970215	844079.508	1021778.853	296.75082	1400.000
**		21.980000	844069.734	1021778.387	297.16468	1627.494
**		22.000000	844049.749	1021777.605	297.81708	2436.886
**		22.020000	844029.759	1021776.988	298.20965	4847.823
**		22.040000	844009.766	1021776.453	298.34237	455260.689
**	PT	22.040215	844009.551	1021776.448	298.34238	.000
**		22.060000	843989.773	1021775.933	298.34238	.000
**		22.080000	843969.780	1021775.412	298.34238	.000
**		22.100000	843949.787	1021774.891	298.34238	.000
**		22.120000	843929.793	1021774.371	298.34238	.000
**		22.140000	843909.800	1021773.850	298.34238	.000
**	TP	22.144705	843905.097	1021773.727	298.34238	.000
**		22.160000	843889.808	1021773.289	297.83581	-961.086
**		22.180000	843869.833	1021772.310	295.64487	-416.487
**		22.200000	843849.930	1021770.375	291.72162	-265.846
**	PK	22.214705	843835.416	1021768.030	287.73205	-210.000
**		22.220000	843830.232	1021766.951	286.12680	-210.000
**	KP	22.234875	843815.835	1021763.223	281.61741	-210.000
**		22.240000	843810.939	1021761.707	280.17749	-246.022
**		22.260000	843792.106	1021754.982	276.73448	-744.275
**	PT	22.269875	843782.899	1021751.413	276.31213	.000
**	TP	22.270772	843782.063	1021751.087	276.31213	.000
**		22.280000	843773.461	1021747.747	276.64881	872.392
**		22.300000	843754.655	1021740.945	279.68996	275.425
**	PK	22.305772	843749.155	1021739.196	281.15584	230.003
**		22.320000	843735.426	1021735.469	285.09402	230.000
**		22.340000	843715.795	1021731.680	290.62985	230.000
**	KP	22.359946	843695.962	1021729.613	296.15072	230.000
**		22.360000	843695.908	1021729.610	296.16566	230.176
**		22.380000	843675.917	1021729.192	300.90642	322.346
**		22.400000	843655.936	1021730.014	304.06550	537.628
**		22.420000	843635.998	1021731.579	305.64293	1618.681
**	PT	22.429946	843626.093	1021732.479	305.83852	.000
**		22.440000	843616.081	1021733.400	305.83852	.000
**		22.460000	843596.165	1021735.232	305.83852	.000
**	TO	22.472687	843583.532	1021736.394	305.83852	.000

\*\*\* VÝPOČET UKONČEN BEZ CHYB \*\*\*

ROADPAC SI32 - VIANIV Interaktivní niveleta

Verze: 2008

Datum: 14.12.2017

Akce: HLINKY

Trasa: 103

## H L A V N Í B O D Y N I V E L E T Y

Číslo	Staničení	Výška vrcholu	Poloměr	Tečna	Vzepětí	Spád	Délka	Mezipřímá
41,	22,281272	658,085	0,000	0,000	0,000	-3,700%	26,673	9,173
42,	22,307945	657,098	2 000,000	17,500	0,077	-5,450%	110,779	24,279
43,	22,418724	651,061	-2 000,000	69,000	-1,190	1,450%	286,328	168,661
44,	22,705052	655,212	-3 000,000	48,667	-0,395	4,695%	89,948	41,281
45,	22,795000	659,435	0,000	0,000	0,000	5,560%	29,804	6,264
46,	22,824804	661,092	2 000,000	23,540	0,139	3,206%	48,976	17,197
47,	22,873780	662,662	-5 000,000	8,239	-0,007	3,535%	81,070	62,994
48,	22,954850	665,528	-3 000,000	9,837	-0,016	4,191%	22,429	6,990
49,	22,977279	666,468	-2 000,000	5,602	-0,008	4,751%	73,476	56,867
50,	23,050755	669,959	2 000,000	11,007	0,030	3,651%	23,969	6,670
51,	23,074724	670,834	-2 000,000	6,293	-0,010	4,280%	59,512	42,841
52,	23,134236	673,381	20 000,000	10,378	0,003	4,176%	44,947	20,845
53,	23,179183	675,258	3 000,000	13,724	0,031	3,261%	25,421	3,578
54,	23,204604	676,087	-2 000,000	8,119	-0,016	4,073%	25,829	1,535
55,	23,230433	677,139	4 000,000	16,175	0,033	3,264%	42,185	18,066
56,	23,272618	678,516	2 000,000	7,944	0,016	2,470%	51,057	39,797
57,	23,323675	679,777	2 000,000	3,316	0,003	2,138%	41,484	33,241
58,	23,365159	680,664	2 000,000	4,927	0,006	1,645%	40,597	25,260
59,	23,405756	681,332	2 000,000	10,410	0,027	0,605%	77,590	54,708
60,	23,483346	681,801	-15 000,000	12,473	-0,005	0,771%	44,242	23,560
61,	23,527588	682,142	5 000,000	8,209	0,007	0,442%	79,116	65,009
62,	23,606704	682,492	-5 000,000	5,898	-0,003	0,678%	25,357	10,472
63,	23,632061	682,664	4 000,000	8,987	0,010	0,229%	62,460	15,916
64,	23,694521	682,807	-4 000,000	37,557	-0,176	2,107%	74,569	22,603
65,	23,769090	684,378	5 000,000	14,409	0,021	1,530%	38,029	12,540
66,	23,807119	684,960	-3 000,000	11,080	-0,020	2,269%	22,476	5,173
67,	23,829595	685,470	-5 000,000	6,223	-0,004	2,518%	58,181	38,790
68,	23,887776	686,935	-2 000,000	13,168	-0,043	3,835%	21,670	5,731
69,	23,909446	687,766	3 000,000	2,771	0,001	3,650%	54,273	37,504
70,	23,963719	689,747	2 000,000	13,998	0,049	2,250%	41,773	8,174
71,	24,005492	690,687	2 500,000	19,601	0,077	0,682%	46,323	13,685
72,	24,051815	691,003	4 000,000	13,037	0,021	0,030%	72,520	48,629
73,	24,124335	691,025	-5 000,000	10,855	-0,012	0,465%	31,645	16,672
74,	24,155980	691,172	2 000,000	4,118	0,004	0,053%	24,650	13,160
75,	24,180630	691,185	10 000,000	7,372	0,003	-0,095%	117,208	106,901
76,	24,297838	691,074	3 000,000	2,935	0,001	-0,290%	58,546	26,115
77,	24,356384	690,904	-12 000,000	29,496	-0,036	0,201%	50,190	14,415
78,	24,406574	691,005	2 000,000	6,279	0,010	-0,427%	20,861	4,418
79,	24,427435	690,916	-2 500,000	10,164	-0,021	0,387%	32,341	3,564
80,	24,459776	691,041	3 000,000	18,613	0,058	-0,854%	99,256	48,852
81,	24,559032	690,193	1 800,000	31,791	0,281	-4,387%	47,963	11,423
82,	24,606995	688,089	500,000	4,749	0,023	-6,286%	34,217	19,225
83,	24,641212	685,938	5 000,000	10,243	0,010	-6,696%	69,832	43,473
84,	24,711044	681,262	-10 000,000	16,115	-0,013	-6,374%	39,239	13,433
85,	24,750283	678,761	5 000,000	9,691	0,009	-6,761%	227,971	170,741
86,	24,978254	663,347	-2 700,000	47,539	-0,419	-3,240%	81,976	13,694
87,	25,060230	660,691	-2 600,000	20,743	-0,083	-1,644%	35,090	0,178
88,	25,095320	660,114	-1 800,000	14,169	-0,056	-0,070%	45,704	22,919
89,	25,141024	660,082	-3 000,000	8,616	-0,012	0,504%	73,359	51,745
90,	25,214383	660,452	-4 000,000	12,998	-0,021	1,154%	78,838	60,226
91,	25,293221	661,362	-2 000,000	5,614	-0,008	1,716%	14,863	3,374
92,	25,308084	661,617	2 000,000	5,875	0,009	1,128%	79,065	65,311
93,	25,387149	662,509	2 000,000	7,880	0,016	0,340%	34,683	18,013
94,	25,421832	662,627	-1 500,000	8,790	-0,026	1,512%	17,590	2,916
95,	25,439422	662,893	1 500,000	5,884	0,012	0,728%	89,184	52,147
96,	25,528606	663,542	-10 000,000	31,153	-0,049	1,351%	58,929	9,308
97,	25,587535	664,338	-6 000,000	18,468	-0,028	1,966%	29,852	3,947
98,	25,617387	664,925	1 500,000	7,437	0,018	0,975%	71,503	45,063
99,	25,688890	665,622	-2 000,000	19,003	-0,090	2,875%	42,051	17,419
100,	25,730941	666,831	1 000,000	5,629	0,016	1,749%	21,323	10,485
101,	25,752264	667,204	400,000	5,209	0,034	-0,855%	57,875	44,206
102,	25,810139	666,709	-2 000,000	8,460	-0,018	-0,009%	21,551	6,037
103,	25,831690	666,707	2 000,000	7,053	0,012	-0,715%	18,751	2,347
104,	25,850441	666,573	-2 500,000	9,350	-0,017	0,033%	77,874	50,597
105,	25,928315	666,599	2 000,000	17,927	0,080	-1,759%	31,206	8,820
106,	25,959521	666,050	-1 000,000	4,460	-0,010	-0,867%	47,386	36,275
107,	26,006907	665,639	-10 000,000	6,651	-0,002	-0,734%	53,791	39,630
108,	26,060698	665,244	2 000,000	7,510	0,014	-1,485%	70,960	60,510
109,	26,131658	664,190	2 000,000	2,940	0,002	-1,779%	31,023	18,070
110,	26,162681	663,638	-5 000,000	10,013	-0,010	-1,379%	32,927	5,500
111,	26,195608	663,184	-2 000,000	17,414	-0,076	0,363%	91,843	54,277
112,	26,287451	663,517	-1 700,000	20,152	-0,119	2,733%	26,377	2,531
113,	26,313828	664,238	1 500,000	3,693	0,005	2,241%	22,981	11,164
114,	26,336809	664,753	-2 000,000	8,123	-0,016	3,053%	44,542	18,338
115,	26,381351	666,113	-7 000,000	18,081	-0,023	3,570%	37,340	10,959
116,	26,418691	667,446	5 000,000	8,300	0,007	3,238%	75,327	51,080
117,	26,494018	669,885	5 000,000	15,946	0,025	2,600%	79,653	30,454
118,	26,573671	671,956	7 000,000	33,252	0,079	1,650%	74,244	23,917
119,	26,647915	673,181	-10 000,000	17,075	-0,015	1,992%	43,134	13,830



120,	26,691049	674,040	3 000,000	12,229	0,025	1,176%	40,809	14,407
121,	26,731858	674,520	-4 000,000	14,173	-0,025	1,885%	29,551	2,854
122,	26,761409	675,077	1 500,000	12,523	0,052	0,215%	45,565	22,989
123,	26,806974	675,175	1 000,000	10,052	0,051	-1,795%	42,887	22,892
124,	26,849861	674,405	1 000,000	9,942	0,049	-3,784%	32,797	7,755
125,	26,882658	673,164	1 500,000	15,100	0,076	-5,797%	49,438	30,011
126,	26,932096	670,298	-3 000,000	4,328	-0,003	-5,509%	37,904	33,576
127,	26,970000	668,210	0,000	0,000	0,000	0,000%	0,000	0,000

V Ý P O Č E T    V Ý Š E K    V    P O D R O B N Ý C H    B O D E C H

Staničení	označení	Výška nivelety	Výška terénu	Spád nivelety
22,209600	V	660,548	660,488	-3,150%
22,235849	KZ	659,675	659,603	-3,500%
22,281272	KZ ZZ V	658,085	658,085	-3,700%
22,290445	ZZ	657,746	657,746	-3,700%
22,300000		657,369	657,381	-4,178%
22,307945	V	657,022	657,025	-4,575%
22,320000		656,434	656,436	-5,178%
22,325445	KZ	656,144	656,140	-5,450%
22,340000		655,351	655,324	-5,450%
22,349724	ZZ	654,821	654,763	-5,450%
22,360000		654,287	654,223	-4,936%
22,380000		653,400	653,400	-3,936%
22,400000		652,713	652,718	-2,936%
22,418724	V	652,251	652,305	-2,000%
22,420000		652,226	652,279	-1,936%
22,440000		651,939	651,964	-0,936%
22,458724	VZ	651,851	651,920	0,000%
22,460000		651,851	651,922	0,064%
22,480000		651,964	652,020	1,064%
22,487724	KZ	652,061	652,088	1,450%
22,500000		652,239	652,220	1,450%
22,520000		652,529	652,481	1,450%
22,540000		652,819	652,796	1,450%
22,560000		653,109	653,110	1,450%
22,580000		653,399	653,402	1,450%
22,600000		653,689	653,657	1,450%
22,620000		653,979	653,945	1,450%
22,640000		654,269	654,281	1,450%
22,656385	ZZ	654,507	654,627	1,450%
22,660000		654,561	654,700	1,571%
22,680000		654,942	655,085	2,237%
22,700000		655,456	655,506	2,904%
22,705052	V	655,607	655,641	3,072%
22,720000		656,104	656,050	3,571%
22,740000		656,884	656,843	4,237%
22,753719	KZ	657,497	657,464	4,695%
22,760000		657,792	657,768	4,695%
22,780000		658,731	658,718	4,695%
22,795000	KZ ZZ V	659,435	659,435	5,560%
22,800000		659,713	659,701	5,560%
22,801264	ZZ	659,783	659,768	5,560%
22,820000		660,737	660,692	4,623%
22,824804	V	660,953	660,899	4,383%
22,840000		661,562	661,492	3,623%
22,848344	KZ	661,847	661,777	3,206%
22,860000		662,220	662,151	3,206%
22,865541	ZZ	662,398	662,323	3,206%
22,873780	V	662,669	662,576	3,370%
22,880000		662,882	662,808	3,495%
22,882019	KZ	662,953	662,883	3,535%
22,900000		663,589	663,528	3,535%
22,920000		664,296	664,225	3,535%
22,940000		665,003	664,920	3,535%
22,945013	ZZ	665,180	665,103	3,535%
22,954850	V	665,544	665,464	3,863%
22,960000		665,747	665,661	4,035%
22,964687	KZ	665,940	665,860	4,191%
22,971677	ZZ	666,233	666,162	4,191%
22,977279	V	666,476	666,402	4,471%
22,980000		666,599	666,521	4,607%
22,982881	KZ	666,734	666,658	4,751%
23,000000		667,548	667,469	4,751%
23,020000		668,498	668,408	4,751%
23,039748	ZZ	669,436	669,331	4,751%
23,040000		669,448	669,342	4,739%
23,050755	V	669,929	669,846	4,201%
23,060000		670,296	670,206	3,739%
23,061762	KZ	670,361	670,273	3,651%
23,068431	ZZ	670,604	670,523	3,651%
23,074724	V	670,844	670,762	3,965%
23,080000		671,060	670,978	4,229%
23,081017	KZ	671,103	671,020	4,280%
23,100000		671,916	671,813	4,280%
23,120000		672,772	672,683	4,280%
23,123858	ZZ	672,937	672,845	4,280%
23,134236	V	673,378	673,283	4,228%
23,140000		673,621	673,525	4,199%
23,144614	KZ	673,814	673,717	4,176%
23,160000		674,457	674,355	4,176%
23,165459	ZZ	674,685	674,570	4,176%
23,179183	V	675,227	675,106	3,719%
23,180000		675,257	675,137	3,691%
23,192907	KZ	675,706	675,587	3,261%

23,196485	ZZ	675,822	675,707	3,261%
23,200000		675,940	675,825	3,437%
23,204604	V	676,103	675,979	3,667%
23,212723	KZ	676,418	676,294	4,073%
23,214258	ZZ	676,480	676,355	4,073%
23,220000		676,710	676,583	3,929%
23,230433	V	677,106	676,989	3,669%
23,240000		677,446	677,312	3,429%
23,246608	KZ	677,667	677,536	3,264%
23,260000		678,104	677,980	3,264%
23,264674	ZZ	678,257	678,132	3,264%
23,272618	V	678,500	678,392	2,867%
23,280000		678,698	678,576	2,498%
23,280562	KZ	678,712	678,590	2,470%
23,300000		679,192	679,055	2,470%
23,320000		679,686	679,582	2,470%
23,320359	ZZ	679,695	679,592	2,470%
23,323675	V	679,774	679,672	2,304%
23,326991	KZ	679,848	679,747	2,138%
23,340000		680,126	680,035	2,138%
23,360000		680,554	680,457	2,138%
23,360232	ZZ	680,559	680,462	2,138%
23,365159	V	680,658	680,563	1,892%
23,370086	KZ	680,745	680,646	1,645%
23,380000		680,908	680,809	1,645%
23,395346	ZZ	681,161	681,056	1,645%
23,400000		681,232	681,132	1,413%
23,405756	V	681,305	681,225	1,125%
23,416166	KZ	681,395	681,312	0,605%
23,420000		681,418	681,336	0,605%
23,440000		681,539	681,457	0,605%
23,460000		681,660	681,587	0,605%
23,470873	ZZ	681,726	681,660	0,605%
23,480000		681,784	681,724	0,665%
23,483346	V	681,806	681,746	0,688%
23,495819	KZ	681,897	681,841	0,771%
23,500000		681,929	681,872	0,771%
23,519379	ZZ	682,079	682,017	0,771%
23,520000		682,083	682,022	0,758%
23,527588	V	682,135	682,072	0,607%
23,535797	KZ	682,178	682,108	0,442%
23,540000		682,197	682,126	0,442%
23,560000		682,285	682,223	0,442%
23,580000		682,374	682,310	0,442%
23,600000		682,462	682,389	0,442%
23,600806	ZZ	682,466	682,392	0,442%
23,606704	V	682,495	682,415	0,560%
23,612602	KZ	682,532	682,453	0,678%
23,620000		682,582	682,502	0,678%
23,623074	ZZ	682,603	682,522	0,678%
23,632061	V	682,654	682,575	0,454%
23,640000		682,682	682,601	0,255%
23,641048	KZ	682,685	682,605	0,229%
23,656964	ZZ	682,721	682,653	0,229%
23,660000		682,729	682,660	0,305%
23,680000		682,840	682,735	0,805%
23,694521	V	682,983	682,834	1,168%
23,700000		683,051	682,923	1,305%
23,720000		683,362	683,277	1,805%
23,732078	KZ	683,598	683,533	2,107%
23,740000		683,765	683,701	2,107%
23,754681	ZZ	684,074	683,990	2,107%
23,760000		684,184	684,095	2,000%
23,769090	V	684,357	684,267	1,819%
23,780000		684,544	684,472	1,600%
23,783499	KZ	684,599	684,536	1,530%
23,796039	ZZ	684,790	684,731	1,530%
23,800000		684,854	684,792	1,662%
23,807119	V	684,980	684,910	1,900%
23,818199	KZ	685,211	685,144	2,269%
23,820000		685,252	685,182	2,269%
23,823372	ZZ	685,329	685,252	2,269%
23,829595	V	685,474	685,389	2,394%
23,835818	KZ	685,627	685,549	2,518%
23,840000		685,732	685,657	2,518%
23,860000		686,236	686,162	2,518%
23,874608	ZZ	686,603	686,532	2,518%
23,880000		686,746	686,672	2,788%
23,887776	V	686,978	686,873	3,176%
23,900000		687,404	687,334	3,788%
23,900944	KZ	687,440	687,370	3,835%
23,906675	ZZ	687,660	687,587	3,835%
23,909446	V	687,765	687,686	3,742%
23,912217	KZ	687,867	687,785	3,650%
23,920000		688,151	688,061	3,650%
23,940000		688,881	688,795	3,650%
23,949721	ZZ	689,236	689,152	3,650%
23,960000		689,585	689,517	3,136%
23,963719	V	689,698	689,627	2,950%
23,977717	KZ	690,062	689,983	2,250%
23,980000		690,113	690,035	2,250%
23,985891	ZZ	690,246	690,170	2,250%
24,000000		690,524	690,452	1,686%
24,005492	V	690,610	690,520	1,466%
24,020000		690,781	690,695	0,886%
24,025093	KZ	690,821	690,736	0,682%
24,038778	ZZ	690,914	690,842	0,682%
24,040000		690,922	690,851	0,652%
24,051815	V	690,982	690,900	0,356%

24,060000		691,003	690,924	0,152%
24,064852	KZ	691,007	690,934	0,030%
24,080000		691,012	690,912	0,030%
24,100000		691,018	690,919	0,030%
24,113480	ZZ	691,022	690,940	0,030%
24,120000		691,028	690,954	0,161%
24,124335	V	691,037	690,963	0,247%
24,135190	KZ	691,075	691,002	0,465%
24,140000		691,098	691,027	0,465%
24,151862	ZZ	691,153	691,080	0,465%
24,155980	V	691,168	691,085	0,259%
24,160000		691,174	691,091	0,058%
24,160098	KZ	691,174	691,091	0,053%
24,173258	ZZ	691,181	691,107	0,053%
24,178532	VZ	691,183	691,102	0,000%
24,180000		691,182	691,100	-0,015%
24,180630	V	691,182	691,099	-0,021%
24,188002	KZ	691,178	691,085	-0,095%
24,200000		691,167	691,063	-0,095%
24,220000		691,148	691,066	-0,095%
24,240000		691,129	691,034	-0,095%
24,260000		691,110	691,005	-0,095%
24,280000		691,091	691,006	-0,095%
24,294903	ZZ	691,077	691,013	-0,095%
24,297838	V	691,073	691,014	-0,193%
24,300000		691,068	691,005	-0,265%
24,300773	KZ	691,065	691,002	-0,290%
24,320000		691,010	690,935	-0,290%
24,326888	ZZ	690,990	690,918	-0,290%
24,340000		690,959	690,885	-0,181%
24,356384	V	690,940	690,875	-0,045%
24,360000		690,939	690,872	-0,014%
24,361732	VZ	690,939	690,871	0,000%
24,380000		690,953	690,884	0,152%
24,385880	KZ	690,963	690,890	0,201%
24,400000		690,992	690,923	0,201%
24,400295	ZZ	690,992	690,923	0,201%
24,404320	VZ	690,996	690,932	0,000%
24,406574	V	690,995	690,937	-0,113%
24,412853	KZ	690,978	690,914	-0,427%
24,417271	ZZ	690,959	690,898	-0,427%
24,420000		690,949	690,887	-0,318%
24,427435	V	690,937	690,860	-0,020%
24,427937	VZ	690,937	690,862	0,000%
24,437599	KZ	690,955	690,894	0,387%
24,440000		690,965	690,901	0,387%
24,441163	ZZ	690,969	690,905	0,387%
24,452758	VZ	690,991	690,915	0,000%
24,459776	V	690,983	690,904	-0,234%
24,460000		690,983	690,903	-0,241%
24,478389	KZ	690,882	690,816	-0,854%
24,480000		690,868	690,804	-0,854%
24,500000		690,697	690,649	-0,854%
24,520000		690,526	690,474	-0,854%
24,527241	ZZ	690,465	690,400	-0,854%
24,540000		690,310	690,235	-1,563%
24,559032	V	689,912	689,849	-2,621%
24,560000		689,887	689,818	-2,674%
24,580000		689,241	689,170	-3,785%
24,590823	KZ	688,798	688,717	-4,387%
24,600000		688,396	688,321	-4,387%
24,602246	ZZ	688,297	688,224	-4,387%
24,606995	V	688,066	688,010	-5,337%
24,611744	KZ	687,790	687,716	-6,286%
24,620000		687,271	687,206	-6,286%
24,630969	ZZ	686,582	686,516	-6,286%
24,640000		686,006	685,934	-6,467%
24,641212	V	685,928	685,856	-6,491%
24,651455	KZ	685,252	685,188	-6,696%
24,660000		684,680	684,603	-6,696%
24,680000		683,341	683,255	-6,696%
24,694929	ZZ	682,341	682,262	-6,696%
24,700000		682,003	681,925	-6,645%
24,711044	V	681,275	681,191	-6,535%
24,720000		680,694	680,610	-6,445%
24,727159	KZ	680,235	680,143	-6,374%
24,740000		679,416	679,323	-6,374%
24,740592	ZZ	679,379	679,286	-6,374%
24,750283	V	678,752	678,669	-6,568%
24,759974	KZ	678,106	678,013	-6,761%
24,760000		678,104	678,011	-6,761%
24,780000		676,752	676,644	-6,761%
24,800000		675,399	675,279	-6,761%
24,820000		674,047	673,914	-6,761%
24,840000		672,695	672,560	-6,761%
24,860000		671,343	671,181	-6,761%
24,880000		669,990	669,820	-6,761%
24,900000		668,638	668,482	-6,761%
24,920000		667,286	667,141	-6,761%
24,930715	ZZ	666,561	666,419	-6,761%
24,940000		665,949	665,817	-6,418%
24,960000		664,740	664,615	-5,677%
24,978254	V	663,766	663,584	-5,001%
24,980000		663,679	663,486	-4,936%
25,000000		662,766	662,652	-4,195%
25,020000		662,001	661,865	-3,455%
25,025793	KZ	661,807	661,672	-3,240%
25,039487	ZZ	661,363	661,241	-3,240%
25,040000		661,346	661,225	-3,220%

25,060000		660,779	660,657	-2,451%
25,060230	V	660,774	660,651	-2,442%
25,080000		660,366	660,263	-1,682%
25,080973	KZ	660,350	660,244	-1,644%
25,081151	ZZ	660,347	660,241	-1,644%
25,095320	V	660,170	660,078	-0,857%
25,100000		660,136	660,025	-0,597%
25,109489	KZ	660,104	659,990	-0,070%
25,120000		660,097	659,976	-0,070%
25,132408	ZZ	660,088	659,971	-0,070%
25,134509	VZ	660,087	659,972	0,000%
25,140000		660,092	659,973	0,183%
25,141024	V	660,094	659,973	0,217%
25,149640	KZ	660,125	660,010	0,504%
25,160000		660,178	660,083	0,504%
25,180000		660,279	660,178	0,504%
25,200000		660,379	660,282	0,504%
25,201385	ZZ	660,386	660,290	0,504%
25,214383	V	660,473	660,392	0,829%
25,220000		660,524	660,445	0,970%
25,227381	KZ	660,602	660,515	1,154%
25,240000		660,748	660,662	1,154%
25,260000		660,979	660,903	1,154%
25,280000		661,209	661,138	1,154%
25,287607	ZZ	661,297	661,230	1,154%
25,293221	V	661,370	661,300	1,435%
25,298835	KZ	661,458	661,396	1,716%
25,300000		661,478	661,416	1,716%
25,302209	ZZ	661,516	661,453	1,716%
25,308084	V	661,608	661,548	1,422%
25,313959	KZ	661,683	661,609	1,128%
25,320000		661,751	661,666	1,128%
25,340000		661,977	661,870	1,128%
25,360000		662,203	662,067	1,128%
25,379269	ZZ	662,420	662,333	1,128%
25,380000		662,428	662,342	1,092%
25,387149	V	662,493	662,417	0,734%
25,395029	KZ	662,536	662,477	0,340%
25,400000		662,553	662,505	0,340%
25,413042	ZZ	662,597	662,556	0,340%
25,420000		662,637	662,571	0,804%
25,421832	V	662,653	662,575	0,926%
25,430622	KZ	662,760	662,703	1,512%
25,433538	ZZ	662,804	662,740	1,512%
25,439422	V	662,881	662,816	1,120%
25,440000		662,888	662,821	1,081%
25,445306	KZ	662,936	662,851	0,728%
25,460000		663,043	662,931	0,728%
25,480000		663,188	663,067	0,728%
25,497453	ZZ	663,315	663,195	0,728%
25,500000		663,334	663,222	0,753%
25,520000		663,505	663,421	0,953%
25,528606	V	663,591	663,507	1,039%
25,540000		663,715	663,641	1,153%
25,559759	KZ	663,963	663,900	1,351%
25,560000		663,966	663,903	1,351%
25,569067	ZZ	664,089	664,019	1,351%
25,580000		664,246	664,178	1,533%
25,587535	V	664,366	664,285	1,659%
25,600000		664,586	664,524	1,866%
25,606003	KZ	664,701	664,635	1,966%
25,609950	ZZ	664,779	664,704	1,966%
25,617387	V	664,907	664,824	1,471%
25,620000		664,943	664,865	1,296%
25,624824	KZ	664,997	664,930	0,975%
25,640000		665,145	665,038	0,975%
25,660000		665,340	665,257	0,975%
25,669887	ZZ	665,437	665,362	0,975%
25,680000		665,561	665,475	1,480%
25,688890	V	665,712	665,645	1,925%
25,700000		665,957	665,872	2,480%
25,707893	KZ	666,168	666,095	2,875%
25,720000		666,516	666,443	2,875%
25,725312	ZZ	666,669	666,602	2,875%
25,730941	V	666,815	666,766	2,312%
25,736570	KZ	666,929	666,863	1,749%
25,740000		666,989	666,921	1,749%
25,747055	ZZ	667,113	667,033	1,749%
25,752264	V	667,170	667,077	0,447%
25,754052	VZ	667,174	667,071	0,000%
25,757473	KZ	667,159	667,056	-0,855%
25,760000		667,138	667,044	-0,855%
25,780000		666,967	666,899	-0,855%
25,800000		666,796	666,721	-0,855%
25,801679	ZZ	666,781	666,706	-0,855%
25,810139	V	666,727	666,635	-0,432%
25,818599	KZ	666,708	666,637	-0,009%
25,820000		666,708	666,637	-0,009%
25,824637	ZZ	666,708	666,634	-0,009%
25,831690	V	666,695	666,615	-0,362%
25,838743	KZ	666,657	666,581	-0,715%
25,840000		666,648	666,575	-0,715%
25,841091	ZZ	666,640	666,569	-0,715%
25,850441	V	666,590	666,518	-0,341%
25,858957	VZ	666,576	666,514	0,000%
25,859791	KZ	666,576	666,514	0,033%
25,860000		666,576	666,514	0,033%
25,880000		666,583	666,512	0,033%
25,900000		666,590	666,519	0,033%

25,910388	ZZ	666,593	666,489	0,033%
25,911056	VZ	666,593	666,487	0,000%
25,920000		666,573	666,446	-0,447%
25,928315	V	666,519	666,388	-0,863%
25,940000		666,384	666,300	-1,447%
25,946242	KZ	666,284	666,192	-1,759%
25,955061	ZZ	666,128	666,038	-1,759%
25,959521	V	666,060	665,960	-1,313%
25,960000		666,054	665,952	-1,265%
25,963981	KZ	666,011	665,914	-0,867%
25,980000		665,872	665,788	-0,867%
26,000000		665,699	665,598	-0,867%
26,000256	ZZ	665,697	665,595	-0,867%
26,006907	V	665,641	665,533	-0,801%
26,013558	KZ	665,590	665,498	-0,734%
26,020000		665,543	665,464	-0,734%
26,040000		665,396	665,321	-0,734%
26,053188	ZZ	665,299	665,218	-0,734%
26,060000		665,238	665,162	-1,075%
26,060698	V	665,230	665,156	-1,110%
26,068208	KZ	665,132	665,048	-1,485%
26,080000		664,957	664,854	-1,485%
26,100000		664,660	664,560	-1,485%
26,120000		664,363	664,288	-1,485%
26,128718	ZZ	664,234	664,170	-1,485%
26,131658	V	664,188	664,127	-1,632%
26,134598	KZ	664,138	664,076	-1,779%
26,140000		664,042	663,976	-1,779%
26,152668	ZZ	663,816	663,741	-1,779%
26,160000		663,691	663,619	-1,633%
26,162681	V	663,648	663,572	-1,579%
26,172694	KZ	663,500	663,430	-1,379%
26,178194	ZZ	663,424	663,357	-1,379%
26,180000		663,400	663,332	-1,289%
26,195608	V	663,260	663,198	-0,508%
26,200000		663,242	663,161	-0,289%
26,205770	VZ	663,234	663,170	0,000%
26,213022	KZ	663,247	663,186	0,363%
26,220000		663,272	663,196	0,363%
26,240000		663,345	663,266	0,363%
26,260000		663,417	663,351	0,363%
26,267299	ZZ	663,444	663,388	0,363%
26,280000		663,537	663,465	1,110%
26,287451	V	663,636	663,577	1,548%
26,300000		663,877	663,809	2,286%
26,307603	KZ	664,068	664,014	2,733%
26,310135	ZZ	664,137	664,078	2,733%
26,313828	V	664,233	664,170	2,487%
26,317521	KZ	664,321	664,255	2,241%
26,320000		664,376	664,309	2,241%
26,328686	ZZ	664,571	664,494	2,241%
26,336809	V	664,769	664,665	2,647%
26,340000		664,857	664,760	2,807%
26,344932	KZ	665,001	664,905	3,053%
26,360000		665,461	665,356	3,053%
26,363270	ZZ	665,561	665,459	3,053%
26,380000		666,092	665,990	3,292%
26,381351	V	666,136	666,035	3,312%
26,399432	KZ	666,758	666,647	3,570%
26,400000		666,779	666,668	3,570%
26,410391	ZZ	667,150	667,042	3,570%
26,418691	V	667,439	667,341	3,404%
26,420000		667,483	667,387	3,378%
26,426991	KZ	667,715	667,611	3,238%
26,440000		668,136	668,027	3,238%
26,460000		668,784	668,694	3,238%
26,478072	ZZ	669,369	669,278	3,238%
26,480000		669,431	669,340	3,199%
26,494018	V	669,860	669,770	2,919%
26,500000		670,031	669,950	2,799%
26,509964	KZ	670,300	670,240	2,600%
26,520000		670,561	670,499	2,600%
26,540000		671,081	670,994	2,600%
26,540419	ZZ	671,091	671,004	2,600%
26,560000		671,573	671,475	2,320%
26,573671	V	671,877	671,784	2,125%
26,580000		672,009	671,920	2,035%
26,600000		672,387	672,299	1,749%
26,606923	KZ	672,505	672,414	1,650%
26,620000		672,720	672,628	1,650%
26,630840	ZZ	672,899	672,805	1,650%
26,640000		673,055	672,968	1,742%
26,647915	V	673,196	673,107	1,821%
26,660000		673,423	673,354	1,942%
26,664990	KZ	673,521	673,457	1,992%
26,678820	ZZ	673,796	673,731	1,992%
26,680000		673,820	673,753	1,952%
26,691049	V	674,015	673,946	1,584%
26,700000		674,143	674,071	1,286%
26,703278	KZ	674,184	674,110	1,176%
26,717685	ZZ	674,353	674,286	1,176%
26,720000		674,381	674,311	1,234%
26,731858	V	674,545	674,481	1,531%
26,740000		674,678	674,604	1,734%
26,746031	KZ	674,787	674,714	1,885%
26,748886	ZZ	674,841	674,767	1,885%
26,760000		675,009	674,951	1,144%
26,761409	V	675,025	674,960	1,050%
26,773932	KZ	675,104	675,032	0,215%

26,780000		675,117	675,061	0,215%
26,796922	ZZ	675,153	675,086	0,215%
26,799072	VZ	675,156	675,078	0,000%
26,800000		675,155	675,075	-0,093%
26,806974	V	675,124	675,039	-0,790%
26,817026	KZ	674,995	674,932	-1,795%
26,820000		674,941	674,878	-1,795%
26,839919	ZZ	674,584	674,512	-1,795%
26,840000		674,582	674,511	-1,804%
26,849861	V	674,356	674,274	-2,790%
26,859803	KZ	674,029	673,937	-3,784%
26,860000		674,021	673,930	-3,784%
26,867558	ZZ	673,735	673,646	-3,784%
26,880000		673,213	673,119	-4,613%
26,882658	V	673,088	672,999	-4,791%
26,897758	KZ	672,289	672,195	-5,797%
26,900000		672,159	672,065	-5,797%
26,920000		670,999	670,914	-5,797%
26,927768	ZZ	670,549	670,469	-5,797%
26,932096	V	670,301	670,224	-5,653%
26,936424	KZ	670,060	669,990	-5,509%
26,940000		669,863	669,795	-5,509%
26,960000		668,761	668,725	-5,509%

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