



Výškový systém: Bpv

Souřadnicový systém: S-JTSK

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Objednatel: KSÚS Karlovarského kraje	Obec: BOCHOV, HLINKY	Kraj: KARLOVARSKÝ
Akce: II/208 MODERNIZACE SILNICE HLINKY-BOCHOV SO 102 – Modernizace silnice úsek 3 Objekt: (extravilán most ev.č. 208-005 – Německý Chloumek) Příloha: STROJNÍ VÝPOČTY	Datum	Stupeň
	12/2017	DSP/PDPS
	Souprava	Č. přílohy
		8.

VPÚ DECO PRAHA a.s.

Podbabská 1014/20, 16000 Praha

PROGRAMOVÝ SYSTÉM R O A D P A C - program RP12

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				
CV	TP	DIF	YP	XP	sigp	A	YT	XT		T1	T2 (VZP)	alfat
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
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	287.27705	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	
**	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: 13.12.2017

Akce: HLINKY

Trasa: 102

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
1,	17,300000	621,904	0,000	0,000	0,000	-1,700%	16,371	7,395
2,	17,316371	621,626	3 000,000	8,976	0,013	-2,298%	31,109	5,903
3,	17,347480	620,911	-2 500,000	16,230	-0,053	-1,000%	29,201	2,496
4,	17,376681	620,619	-3 000,000	10,475	-0,018	-0,302%	34,145	4,609
5,	17,410826	620,516	-4 000,000	19,061	-0,045	0,651%	24,869	1,952
6,	17,435695	620,678	15 000,000	3,856	0,000	0,600%	31,375	1,119
7,	17,467070	620,866	-2 200,000	26,400	-0,158	3,000%	291,301	253,001
8,	17,758371	629,605	7 000,000	11,900	0,010	2,660%	32,466	1,766
9,	17,790837	630,469	-8 000,000	18,800	-0,022	3,130%	84,911	46,611
10,	17,875748	633,127	30 000,000	19,500	0,006	3,000%	136,226	32,726
11,	18,011974	637,213	-10 000,000	84,000	-0,353	4,680%	252,237	66,237
12,	18,264211	649,018	8 000,000	102,000	0,650	2,130%	128,740	0,080
13,	18,392951	651,760	4 300,000	26,660	0,083	0,890%	118,560	62,650
14,	18,511511	652,815	15 000,000	29,250	0,029	0,500%	102,046	42,796
15,	18,613557	653,326	-7 500,000	30,000	-0,060	1,300%	87,917	6,017
16,	18,701474	654,469	-6 000,000	51,900	-0,224	3,030%	121,634	47,984
17,	18,823109	658,154	-5 000,000	21,750	-0,047	3,900%	64,162	17,412
18,	18,887271	660,656	10 000,000	25,000	0,031	3,400%	107,961	68,961
19,	18,995232	664,327	-10 000,000	14,000	-0,010	3,680%	65,314	45,314
20,	19,060547	666,731	2 000,000	6,000	0,009	3,080%	19,216	0,591
21,	19,079763	667,323	-2 500,000	12,625	-0,032	4,090%	22,311	0,320
22,	19,102074	668,235	2 000,000	9,366	0,022	3,153%	44,012	14,731
23,	19,146086	669,623	-5 000,000	19,915	-0,040	3,950%	61,124	32,409
24,	19,207210	672,037	-4 000,000	8,800	-0,010	4,390%	21,751	0,251
25,	19,228961	672,992	2 000,000	12,700	0,040	3,120%	24,980	0,580
26,	19,253942	673,772	-3 000,000	11,700	-0,023	3,900%	77,880	17,805
27,	19,331821	676,809	4 500,000	48,375	0,260	1,750%	117,548	60,173
28,	19,449369	678,866	-3 000,000	9,000	-0,014	2,350%	121,656	74,156
29,	19,571025	681,725	2 000,000	38,500	0,371	-1,500%	76,745	16,370
30,	19,647770	680,574	1 250,000	21,875	0,191	-5,000%	132,617	87,242
31,	19,780387	673,943	-2 000,000	23,500	-0,138	-2,650%	80,258	44,258
32,	19,860645	671,816	5 000,000	12,500	0,016	-3,150%	94,217	53,617
33,	19,954863	668,848	2 000,000	28,100	0,197	-5,960%	106,327	39,417
34,	20,061189	662,511	-3 500,000	38,810	-0,215	-3,742%	63,034	14,059
35,	20,124224	660,152	3 000,000	10,165	0,017	-4,420%	25,056	1,391
36,	20,149280	659,045	-2 000,000	13,500	-0,046	-3,070%	22,347	0,337
37,	20,171626	658,359	2 300,000	8,510	0,016	-3,810%	93,838	34,328
38,	20,265464	654,783	-20 000,000	51,000	-0,065	-3,300%	181,951	28,951
39,	20,447415	648,779	-3 000,000	102,000	-1,734	3,500%	210,775	49,575
40,	20,658189	656,156	-8 000,000	59,200	-0,219	4,980%	102,542	27,742
41,	20,760731	661,263	-4 000,000	15,600	-0,030	5,760%	44,738	11,138
42,	20,805469	663,840	-7 500,000	18,000	-0,022	6,240%	36,384	3,384
43,	20,841852	666,110	5 000,000	15,000	0,023	5,640%	42,943	22,293
44,	20,884795	668,532	500,000	5,650	0,032	3,380%	11,110	0,735
45,	20,895905	668,908	-250,000	4,725	-0,045	7,160%	12,998	0,148
46,	20,908903	669,838	500,000	8,125	0,066	3,910%	73,484	8,029
47,	20,982388	672,711	2 600,000	57,330	0,632	-0,500%	109,699	22,369
48,	21,092086	672,163	-6 000,000	30,000	-0,075	0,500%	59,149	0,649
49,	21,151236	672,459	-3 000,000	28,500	-0,135	2,400%	125,420	62,820
50,	21,276656	675,469	2 200,000	34,100	0,264	-0,700%	81,137	31,287
51,	21,357793	674,901	-3 000,000	15,750	-0,041	0,350%	128,466	93,966
52,	21,486259	675,350	5 000,000	18,750	0,035	-0,400%	123,890	36,890
53,	21,610149	674,855	6 500,000	68,250	0,358	-2,500%	90,898	3,148
54,	21,701047	672,582	-3 000,000	19,500	-0,063	-1,200%	74,125	24,775
55,	21,775172	671,693	3 000,000	29,850	0,149	-3,190%	75,903	31,553
56,	21,851075	669,272	-10 000,000	14,500	-0,011	-2,900%	44,181	14,681
57,	21,895256	667,990	5 000,000	15,000	0,022	-3,500%	65,955	18,455
58,	21,961211	665,682	-10 000,000	32,500	-0,053	-2,850%	85,640	26,190
59,	22,046852	663,241	-2 200,000	26,950	-0,165	-0,400%	85,954	26,504
60,	22,132805	662,897	2 500,000	32,500	0,211	-3,000%	76,795	25,545
61,	22,209600	660,594	7 500,000	18,750	0,023	-3,500%	71,672	52,922
62,	22,281272	658,085	0,000	0,000	0,000	-3,700%	26,673	9,173
63,	22,307945	657,098	2 000,000	17,500	0,077	-5,450%	110,779	24,279
64,	22,418724	651,061	-2 000,000	69,000	-1,190	1,450%	286,328	168,578
65,	22,705052	655,212	-3 000,000	48,750	-0,396	4,700%	90,736	41,986
66,	22,795788	659,477	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
17,300000	V	621,904	621,794	-1,700%
17,307395	ZZ	621,779	621,664	-1,700%
17,316371	V	621,613	621,505	-1,999%
17,320000		621,538	621,440	-2,120%
17,325347	KZ	621,420	621,319	-2,298%
17,331250	ZZ	621,284	621,182	-2,298%
17,340000		621,098	620,977	-1,948%

17,347480	V	620,964	620,830	-1,649%
17,360000		620,789	620,691	-1,148%
17,363710	KZ	620,749	620,649	-1,000%
17,366206	ZZ	620,724	620,622	-1,000%
17,376681	V	620,637	620,534	-0,651%
17,380000		620,618	620,512	-0,540%
17,387156	KZ	620,587	620,465	-0,302%
17,391765	ZZ	620,573	620,472	-0,302%
17,400000		620,557	620,495	-0,096%
17,403831	VZ	620,555	620,505	0,000%
17,410826	V	620,561	617,208	0,175%
17,420000		620,588	617,210	0,404%
17,429887	KZ	620,640	620,592	0,651%
17,431839	ZZ	620,653	620,597	0,651%
17,435695	V	620,678	620,608	0,626%
17,439551	KZ	620,701	620,638	0,600%
17,440000		620,704	620,641	0,600%
17,440670	ZZ	620,708	620,646	0,600%
17,460000		620,909	620,838	1,479%
17,467070	V	621,025	620,971	1,800%
17,480000		621,295	621,252	2,388%
17,493470	KZ	621,658	621,608	3,000%
17,500000		621,854	621,796	3,000%
17,520000		622,454	622,367	3,000%
17,540000		623,054	622,909	3,000%
17,560000		623,654	623,545	3,000%
17,580000		624,254	624,183	3,000%
17,600000		624,854	624,782	3,000%
17,620000		625,454	625,357	3,000%
17,640000		626,054	625,927	3,000%
17,660000		626,654	626,533	3,000%
17,680000		627,254	627,172	3,000%
17,700000		627,854	627,787	3,000%
17,720000		628,454	628,338	3,000%
17,740000		629,054	628,940	3,000%
17,746471	ZZ	629,248	629,156	3,000%
17,758371	V	629,595	629,543	2,830%
17,760000		629,641	629,586	2,807%
17,770271	KZ	629,922	629,856	2,660%
17,772037	ZZ	629,969	629,901	2,660%
17,780000		630,185	630,116	2,760%
17,790837	V	630,491	630,421	2,895%
17,800000		630,761	630,690	3,010%
17,809637	KZ	631,057	630,992	3,130%
17,820000		631,382	631,311	3,130%
17,840000		632,008	631,927	3,130%
17,856248	ZZ	632,516	632,451	3,130%
17,860000		632,633	632,573	3,118%
17,875748	V	633,120	633,052	3,065%
17,880000		633,250	633,176	3,051%
17,895248	KZ	633,712	633,641	3,000%
17,900000		633,854	633,792	3,000%
17,920000		634,454	634,374	3,000%
17,927974	ZZ	634,693	634,595	3,000%
17,940000		635,061	634,907	3,120%
17,960000		635,705	635,504	3,320%
17,980000		636,389	636,235	3,520%
18,000000		637,114	637,010	3,720%
18,011974	V	637,566	637,450	3,840%
18,020000		637,878	637,765	3,920%
18,040000		638,682	638,610	4,120%
18,060000		639,526	639,410	4,320%
18,080000		640,410	640,290	4,520%
18,095974	KZ	641,145	641,030	4,680%
18,100000		641,333	641,219	4,680%
18,120000		642,269	642,120	4,680%
18,140000		643,205	643,052	4,680%
18,160000		644,141	643,988	4,680%
18,162211	ZZ	644,244	644,086	4,680%
18,180000		645,057	644,938	4,458%
18,200000		645,924	645,822	4,208%
18,220000		646,740	646,614	3,958%
18,240000		647,507	647,383	3,708%
18,260000		648,223	648,098	3,458%
18,264211	V	648,368	648,235	3,405%
18,280000		648,890	648,735	3,208%
18,300000		649,506	649,349	2,958%
18,320000		650,073	649,949	2,708%
18,340000		650,589	650,488	2,458%
18,360000		651,056	650,974	2,208%
18,366211	KZ	651,191	651,107	2,130%
18,366291	ZZ	651,192	651,108	2,130%
18,380000		651,463	651,377	1,811%
18,392951	V	651,678	651,588	1,510%
18,400000		651,778	651,692	1,346%
18,419611	KZ	651,998	651,918	0,890%
18,420000		652,001	651,922	0,890%
18,440000		652,179	652,092	0,890%
18,460000		652,357	652,233	0,890%
18,480000		652,535	652,472	0,890%
18,482261	ZZ	652,555	652,499	0,890%
18,500000		652,702	652,645	0,772%
18,511511	V	652,787	652,725	0,695%
18,520000		652,843	652,779	0,638%
18,540000		652,958	652,849	0,505%
18,540761	KZ	652,962	652,851	0,500%
18,560000		653,058	652,964	0,500%
18,580000		653,158	653,009	0,500%
18,583557	ZZ	653,176	653,025	0,500%

18,600000		653,276	653,105	0,719%
18,613557	V	653,386	653,209	0,900%
18,620000		653,446	653,295	0,986%
18,640000		653,670	653,552	1,253%
18,643557	KZ	653,716	653,592	1,300%
18,649574	ZZ	653,794	653,660	1,300%
18,660000		653,938	653,804	1,474%
18,680000		654,267	654,100	1,807%
18,700000		654,661	654,401	2,140%
18,701474	V	654,693	654,436	2,165%
18,720000		655,123	654,906	2,474%
18,740000		655,651	655,538	2,807%
18,753374	KZ	656,041	656,000	3,030%
18,760000		656,242	656,185	3,030%
18,780000		656,848	656,724	3,030%
18,800000		657,454	657,401	3,030%
18,801359	ZZ	657,495	657,442	3,030%
18,820000		658,095	657,988	3,403%
18,823109	V	658,201	658,096	3,465%
18,840000		658,815	658,706	3,803%
18,844859	KZ	659,002	658,874	3,900%
18,860000		659,593	659,428	3,900%
18,862271	ZZ	659,681	659,512	3,900%
18,880000		660,357	660,190	3,723%
18,887271	V	660,625	660,457	3,650%
18,900000		661,082	660,879	3,523%
18,912271	KZ	661,506	661,329	3,400%
18,920000		661,769	661,616	3,400%
18,940000		662,449	662,355	3,400%
18,960000		663,129	663,070	3,400%
18,980000		663,809	663,710	3,400%
18,981232	ZZ	663,851	663,747	3,400%
18,995232	V	664,337	664,219	3,540%
19,000000		664,507	664,386	3,588%
19,009232	KZ	664,842	664,726	3,680%
19,020000		665,239	665,131	3,680%
19,040000		665,975	665,914	3,680%
19,054547	ZZ	666,510	666,457	3,680%
19,060000		666,703	666,644	3,407%
19,060547	V	666,722	666,661	3,380%
19,066547	KZ	666,915	666,848	3,080%
19,067138	ZZ	666,934	666,866	3,080%
19,079763	V	667,354	667,273	3,585%
19,080000		667,363	667,282	3,595%
19,092388	KZ	667,839	667,767	4,090%
19,092709	ZZ	667,852	667,779	4,090%
19,100000		668,137	668,059	3,725%
19,102074	V	668,213	668,127	3,622%
19,111440	KZ	668,530	668,431	3,153%
19,120000		668,800	668,706	3,153%
19,126172	ZZ	668,995	668,904	3,153%
19,140000		669,450	669,356	3,430%
19,146086	V	669,663	669,553	3,552%
19,160000		670,176	670,094	3,830%
19,166001	KZ	670,410	670,325	3,950%
19,180000		670,963	670,861	3,950%
19,198410	ZZ	671,690	671,561	3,950%
19,200000		671,753	671,621	3,990%
19,207210	V	672,047	671,895	4,170%
19,216010	KZ	672,424	672,228	4,390%
19,216261	ZZ	672,435	672,237	4,390%
19,220000		672,595	672,378	4,203%
19,228961	V	672,952	672,701	3,755%
19,240000		673,336	673,097	3,203%
19,241661	KZ	673,388	673,166	3,120%
19,242242	ZZ	673,407	673,190	3,120%
19,253942	V	673,794	673,680	3,510%
19,260000		674,013	673,931	3,712%
19,265642	KZ	674,228	674,155	3,900%
19,280000		674,788	674,701	3,900%
19,283446	ZZ	674,922	674,831	3,900%
19,300000		675,537	675,463	3,532%
19,320000		676,199	676,075	3,088%
19,331821	V	676,549	676,402	2,825%
19,340000		676,773	676,623	2,643%
19,360000		677,257	677,105	2,199%
19,380000		677,652	677,505	1,754%
19,380196	KZ	677,655	677,509	1,750%
19,400000		678,002	677,895	1,750%
19,420000		678,352	678,232	1,750%
19,440000		678,702	678,567	1,750%
19,440369	ZZ	678,709	678,573	1,750%
19,449369	V	678,880	678,741	2,050%
19,458369	KZ	679,078	678,951	2,350%
19,460000		679,116	678,989	2,350%
19,480000		679,586	679,455	2,350%
19,500000		680,056	679,924	2,350%
19,520000		680,526	680,408	2,350%
19,532525	ZZ	680,820	680,690	2,350%
19,540000		680,982	680,835	1,976%
19,560000		681,277	681,167	0,976%
19,571025	V	681,354	681,258	0,425%
19,579525	VZ	681,372	681,298	0,000%
19,580000		681,372	681,298	-0,024%
19,600000		681,268	681,207	-1,024%
19,609525	KZ	681,147	681,092	-1,500%
19,620000		680,990	680,966	-1,500%
19,625895	ZZ	680,902	680,885	-1,500%
19,640000		680,611	680,599	-2,628%

19,647770	V	680,382	680,360	-3,250%
19,660000		679,925	679,816	-4,228%
19,669645	KZ	679,480	679,387	-5,000%
19,680000		678,962	678,913	-5,000%
19,700000		677,962	677,876	-5,000%
19,720000		676,962	676,805	-5,000%
19,740000		675,962	675,853	-5,000%
19,756887	ZZ	675,118	675,060	-5,000%
19,760000		674,965	674,909	-4,844%
19,780000		674,096	673,927	-3,844%
19,780387	V	674,081	673,909	-3,825%
19,800000		673,427	673,345	-2,844%
19,803887	KZ	673,320	673,250	-2,650%
19,820000		672,893	672,838	-2,650%
19,840000		672,363	672,301	-2,650%
19,848145	ZZ	672,147	672,089	-2,650%
19,860000		671,819	671,766	-2,887%
19,860645	V	671,800	671,748	-2,900%
19,873145	KZ	671,422	671,389	-3,150%
19,880000		671,206	671,165	-3,150%
19,900000		670,576	670,523	-3,150%
19,920000		669,946	669,898	-3,150%
19,926763	ZZ	669,733	669,660	-3,150%
19,940000		669,273	669,143	-3,812%
19,954863	V	668,651	668,534	-4,555%
19,960000		668,410	668,322	-4,812%
19,980000		667,348	667,230	-5,812%
19,982963	KZ	667,173	667,064	-5,960%
20,000000		666,158	666,060	-5,960%
20,020000		664,966	664,823	-5,960%
20,022380	ZZ	664,824	664,685	-5,960%
20,040000		663,818	663,690	-5,457%
20,060000		662,784	662,710	-4,885%
20,061189	V	662,726	662,653	-4,851%
20,080000		661,864	661,778	-4,314%
20,099999	KZ	661,059	660,963	-3,742%
20,100000		661,059	660,963	-3,742%
20,114058	ZZ	660,533	660,407	-3,742%
20,120000		660,304	660,159	-3,940%
20,124224	V	660,135	659,983	-4,081%
20,134389	KZ	659,703	659,583	-4,420%
20,135780	ZZ	659,641	659,529	-4,420%
20,140000		659,459	659,365	-4,209%
20,149280	V	659,090	659,017	-3,745%
20,160000		658,718	658,632	-3,209%
20,162780	KZ	658,630	658,532	-3,070%
20,163116	ZZ	658,620	658,520	-3,070%
20,171626	V	658,343	658,227	-3,440%
20,180000		658,040	657,943	-3,804%
20,180136	KZ	658,034	657,938	-3,810%
20,200000		657,278	657,188	-3,810%
20,214464	ZZ	656,727	656,618	-3,810%
20,220000		656,516	656,404	-3,782%
20,240000		655,770	655,638	-3,682%
20,260000		655,043	654,933	-3,582%
20,265464	V	654,848	654,758	-3,555%
20,280000		654,337	654,272	-3,482%
20,300000		653,651	653,588	-3,382%
20,316464	KZ	653,100	653,036	-3,300%
20,320000		652,984	652,918	-3,300%
20,340000		652,324	652,245	-3,300%
20,345415	ZZ	652,145	652,063	-3,300%
20,360000		651,699	651,574	-2,814%
20,380000		651,203	651,077	-2,147%
20,400000		650,840	650,744	-1,481%
20,420000		650,611	650,539	-0,814%
20,440000		650,515	650,441	-0,147%
20,444415	VZ	650,512	650,443	0,000%
20,447415	V	650,513	650,456	0,100%
20,460000		650,552	650,510	0,520%
20,480000		650,723	650,674	1,186%
20,500000		651,027	650,991	1,853%
20,520000		651,464	651,419	2,520%
20,540000		652,034	651,939	3,186%
20,549415	KZ	652,349	652,227	3,500%
20,560000		652,720	652,597	3,500%
20,580000		653,420	653,326	3,500%
20,598989	ZZ	654,084	654,026	3,500%
20,600000		654,120	654,059	3,513%
20,620000		654,847	654,739	3,763%
20,640000		655,625	655,546	4,013%
20,658189	V	656,375	656,320	4,240%
20,660000		656,452	656,398	4,263%
20,680000		657,330	657,269	4,513%
20,700000		658,257	658,191	4,763%
20,717389	KZ	659,104	659,029	4,980%
20,720000		659,234	659,157	4,980%
20,740000		660,230	660,144	4,980%
20,745131	ZZ	660,486	660,399	4,980%
20,760000		661,254	661,170	5,352%
20,760731	V	661,293	661,210	5,370%
20,776331	KZ	662,161	662,078	5,760%
20,780000		662,373	662,292	5,760%
20,787469	ZZ	662,803	662,730	5,760%
20,800000		663,535	663,465	5,927%
20,805469	V	663,861	663,786	6,000%
20,820000		664,747	664,641	6,194%
20,823469	KZ	664,963	664,856	6,240%
20,826852	ZZ	665,174	665,067	6,240%

20,840000		665,977	665,887	5,977%
20,841852	V	666,088	666,003	5,940%
20,856852	KZ	666,956	666,857	5,640%
20,860000		667,134	667,034	5,640%
20,879145	ZZ	668,213	668,095	5,640%
20,880000		668,261	668,143	5,469%
20,884795	V	668,500	668,407	4,510%
20,890445	KZ	668,723	668,605	3,380%
20,891180	ZZ	668,748	668,625	3,380%
20,895905	V	668,952	668,861	5,270%
20,900000		669,201	669,066	6,908%
20,900630	KZ	669,246	669,097	7,160%
20,900778	ZZ	669,256	669,105	7,160%
20,908903	V	669,772	669,672	5,535%
20,917028	KZ	670,156	670,033	3,910%
20,920000		670,272	670,165	3,910%
20,925058	ZZ	670,470	670,389	3,910%
20,940000		671,011	670,938	3,335%
20,960000		671,601	671,525	2,566%
20,980000		672,038	671,923	1,797%
20,982388	V	672,079	671,964	1,705%
21,000000		672,320	672,235	1,028%
21,020000		672,449	672,366	0,258%
21,026718	VZ	672,457	672,360	0,000%
21,039718	KZ	672,425	672,344	-0,500%
21,040000		672,423	672,343	-0,500%
21,060000		672,323	672,222	-0,500%
21,062086	ZZ	672,313	672,208	-0,500%
21,080000		672,250	672,114	-0,201%
21,092086	VZ V	672,238	672,111	0,000%
21,100000		672,243	672,119	0,132%
21,120000		672,303	672,188	0,465%
21,122086	KZ	672,313	672,197	0,500%
21,122736	ZZ	672,316	672,200	0,500%
21,140000		672,452	672,362	1,076%
21,151236	V	672,594	672,540	1,450%
21,160000		672,734	672,686	1,742%
21,179736	KZ	673,143	673,081	2,400%
21,180000		673,149	673,086	2,400%
21,200000		673,629	673,598	2,400%
21,220000		674,109	674,077	2,400%
21,240000		674,589	674,532	2,400%
21,242556	ZZ	674,650	674,589	2,400%
21,260000		675,000	674,923	1,607%
21,276656	V	675,204	675,101	0,850%
21,280000		675,230	675,112	0,698%
21,295356	VZ	675,284	675,159	0,000%
21,300000		675,279	675,136	-0,211%
21,310756	KZ	675,230	675,083	-0,700%
21,320000		675,165	675,036	-0,700%
21,340000		675,025	674,932	-0,700%
21,342043	ZZ	675,011	674,924	-0,700%
21,357793	V	674,942	674,865	-0,175%
21,360000		674,939	674,857	-0,101%
21,363043	VZ	674,938	674,849	0,000%
21,373543	KZ	674,956	674,881	0,350%
21,380000		674,979	674,900	0,350%
21,400000		675,049	674,986	0,350%
21,420000		675,119	675,066	0,350%
21,440000		675,189	675,125	0,350%
21,460000		675,259	675,183	0,350%
21,467509	ZZ	675,285	675,205	0,350%
21,480000		675,313	675,230	0,100%
21,485009	VZ	675,315	675,240	0,000%
21,486259	V	675,315	675,243	-0,025%
21,500000		675,293	675,211	-0,300%
21,505009	KZ	675,275	675,190	-0,400%
21,520000		675,215	675,130	-0,400%
21,540000		675,135	675,050	-0,400%
21,541899	ZZ	675,128	675,044	-0,400%
21,560000		675,030	674,972	-0,679%
21,580000		674,864	674,786	-0,986%
21,600000		674,636	674,532	-1,294%
21,610149	V	674,497	674,394	-1,450%
21,620000		674,346	674,259	-1,602%
21,640000		673,995	673,938	-1,909%
21,660000		673,583	673,496	-2,217%
21,678399	KZ	673,149	673,022	-2,500%
21,680000		673,109	672,980	-2,500%
21,681547	ZZ	673,070	672,938	-2,500%
21,700000		672,665	672,540	-1,885%
21,701047	V	672,646	672,518	-1,850%
21,720000		672,355	672,217	-1,218%
21,720547	KZ	672,348	672,210	-1,200%
21,740000		672,115	671,963	-1,200%
21,745322	ZZ	672,051	671,898	-1,200%
21,760000		671,839	671,696	-1,689%
21,775172	V	671,544	671,449	-2,195%
21,780000		671,435	671,336	-2,356%
21,800000		670,897	670,830	-3,023%
21,805022	KZ	670,741	670,662	-3,190%
21,820000		670,263	670,150	-3,190%
21,836575	ZZ	669,734	669,643	-3,190%
21,840000		669,625	669,538	-3,156%
21,851075	V	669,282	669,196	-3,045%
21,860000		669,014	668,918	-2,956%
21,865575	KZ	668,851	668,745	-2,900%
21,880000		668,433	668,361	-2,900%
21,880256	ZZ	668,425	668,355	-2,900%

21,895256	V	667,968	667,909	-3,200%
21,900000		667,814	667,747	-3,295%
21,910256	KZ	667,465	667,397	-3,500%
21,920000		667,124	667,047	-3,500%
21,928711	ZZ	666,819	666,732	-3,500%
21,940000		666,431	666,336	-3,387%
21,960000		665,773	665,656	-3,187%
21,961211	V	665,735	665,618	-3,175%
21,980000		665,156	665,021	-2,987%
21,993711	KZ	664,756	664,653	-2,850%
22,000000		664,576	664,484	-2,850%
22,019902	ZZ	664,009	663,915	-2,850%
22,020000		664,006	663,912	-2,846%
22,040000		663,528	663,452	-1,936%
22,046852	V	663,406	663,322	-1,625%
22,060000		663,232	663,182	-1,027%
22,073802	KZ	663,133	663,060	-0,400%
22,080000		663,109	663,025	-0,400%
22,100000		663,029	662,922	-0,400%
22,100305	ZZ	663,027	662,921	-0,400%
22,120000		662,871	662,766	-1,188%
22,132805	V	662,686	662,617	-1,700%
22,140000		662,553	662,451	-1,988%
22,160000		662,076	661,941	-2,788%
22,165305	KZ	661,922	661,791	-3,000%
22,180000		661,482	661,370	-3,000%
22,190850	ZZ	661,156	661,059	-3,000%
22,200000		660,876	660,792	-3,122%
22,209600	V	660,570	660,488	-3,250%
22,220000		660,225	660,127	-3,389%
22,228350	KZ	659,937	659,852	-3,500%
22,240000		659,530	659,473	-3,500%
22,260000		658,830	658,830	-3,500%
22,280000		658,130	658,130	-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		654,288	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	0,000	1,064%
22,487724	KZ	652,061	0,000	1,450%
22,500000		652,239	0,000	1,450%
22,520000		652,529	0,000	1,450%
22,540000		652,819	0,000	1,450%
22,560000		653,109	0,000	1,450%
22,580000		653,399	0,000	1,450%
22,600000		653,689	0,000	1,450%
22,620000		653,979	0,000	1,450%
22,640000		654,269	0,000	1,450%
22,656302	ZZ	654,506	0,000	1,450%
22,660000		654,561	0,000	1,573%
22,680000		654,943	0,000	2,240%
22,700000		655,457	0,000	2,907%
22,705052	V	655,609	0,000	3,075%
22,720000		656,105	0,000	3,573%
22,740000		656,887	0,000	4,240%
22,753802	KZ	657,504	0,000	4,700%
22,760000		657,795	0,000	4,700%
22,780000		658,735	0,000	4,700%
22,795788	V	659,477	0,000	4,700%

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