



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 101 – Modernizace silnice úsek 1 (extravilán Hlinky – most ev.č. 208-005)  Objekt:  Příloha: STROJNÍ VÝPOČTY	Datum	Stupeň	
	12/2017	DSP/PDPS	
	Souprava	Č. přílohy	
		7.	

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: 13.11.2017

Datum výpočtu: 13.11.2017 16:32:17

Projekt:HLINKY  
Trasa: 101.V12

Údaje o hlavních bodech směrového vedení trasy													
CB IND	STA	YH	XH	sigmah	R	YS	XS						
CV TP	DIF	YP	XP	sigp	A	YT	XT		T1	T2 (VZP)	alfat		
1 OT	15.064377	850483.505	1022311.665	289.19905	.000	.000	.000						
0 tečna	3.391	.000	.000	.00000	.000	.000	.000		.000	.000	.00000		
2 TP	15.067768	850480.163	1022311.093	289.19905	.000	.000	.000						
1 klotoida	30.000	850480.163	1022311.093	289.19905	99.499	850460.448	1022307.715		20.002	10.002	2.89373		
3 PK	15.097768	850450.523	1022306.476	292.09277	330.000	850409.640	1022633.934						
1 kružnice	72.297	.000	.000	.00000	.000	850414.509	1022301.980		36.294	1.990	13.94718		
4 KP	15.170065	850378.378	1022305.418	306.03996	330.000	850409.640	1022633.934						
1 klotoida	30.000	850304.510	1022318.147	313.27427	-157.321	850364.683	1022306.721		13.756	16.257	4.62996		
5 PK	15.200065	850348.655	1022309.433	310.66992	550.000	850440.405	1022851.726						
1 kružnice	35.748	.000	.000	.00000	.000	850331.025	1022312.416		17.880	.291	4.13775		
6 KP	15.235812	850313.626	1022316.537	314.80766	550.000	850440.405	1022851.726						
1 klotoida	50.000	850265.349	1022329.530	317.70139	-165.831	850297.405	1022320.380		16.670	33.337	2.89373		
7 PT	15.285812	850265.349	1022329.530	317.70139	.000	.000	.000						
0 tečna	170.522	.000	.000	.00000	.000	.000	.000		.000	.000	.00000		
8 TP	15.456334	850101.377	1022376.336	317.70139	.000	.000	.000						
2 klotoida	70.000	850101.377	1022376.336	317.70139	129.615	850056.452	1022389.159		46.719	23.381	-9.28404		
9 PK	15.526334	850033.276	1022392.242	308.41735	-240.000	850001.635	1022154.337						
2 kružnice	67.972	.000	.000	.00000	.000	849999.359	1022396.753		34.215	-2.427	-18.03020		
10 KT	15.594306	849965.533	1022391.606	290.38715	.000	.000	.000						
0 tečna	13.009	.000	.000	.00000	.000	.000	.000		.000	.000	.00000		
11 TK	15.607315	849952.672	1022389.649	290.38715	-240.000	849988.774	1022152.380						
3 kružnice	80.436	.000	.000	.00000	.000	849912.535	1022383.542		40.599	-3.410	-21.33641		
12 KP	15.687752	849876.640	1022364.573	269.05075	-240.000	849988.774	1022152.380						
3 klotoida	10.000	849867.865	1022359.778	267.72445	-48.990	849873.693	1022363.015		3.333	6.667	-1.32629		
13 PT	15.697752	849867.865	1022359.778	267.72445	.000	.000	.000						
0 tečna	8.232	.000	.000	.00000	.000	.000	.000		.000	.000	.00000		
14 TP	15.705983	849860.669	1022355.782	267.72445	.000	.000	.000						
4 klotoida	20.000	849860.669	1022355.782	267.72445	90.000	849849.012	1022349.307		13.334	6.667	-1.57190		
15 PK	15.725983	849843.265	1022345.927	266.15255	-405.000	850048.591	1021996.834						
4 kružnice	78.800	.000	.000	.00000	.000	849809.196	1022325.889		39.525	-1.924	-12.38660		
16 KP	15.804784	849779.645	1022299.642	253.76595	-405.000	850048.591	1021996.834						
4 klotoida	30.000	849757.714	1022279.174	251.40810	-110.227	849772.167	1022293.001		10.001	20.001	-2.35785		
17 PT	15.834784	849757.714	1022279.174	251.40810	.000	.000	.000						
0 tečna	1.842	.000	.000	.00000	.000	.000	.000		.000	.000	.00000		
18 TP	15.836626	849756.383	1022277.900	251.40810	.000	.000	.000						
5 klotoida	30.000	849756.383	1022277.900	251.40810	86.603	849741.929	1022264.072		20.004	10.003	3.81972		
19 PK	15.866626	849734.299	1022257.602	255.22782	250.000	849572.618	1022448.283						
5 kružnice	34.770	.000	.000	.00000	.000	849721.018	1022246.341		17.413	.606	8.85417		
20 KP	15.901396	849706.303	1022237.029	264.08198	250.000	849572.618	1022448.283						
5 klotoida	3.000	849711.661	1022240.484	263.27029	39.922	849704.955	1022236.176		1.595	1.405	.94370		
21 PK	15.904396	849703.757	1022235.443	265.02568	170.000	849614.991	1022380.427						
5 kružnice	296.833	.000	.000	.00000	.000	849530.840	1022129.575		202.752	94.591	111.15857		
22 KT	16.201229	849456.748	1022318.304	376.18424	.000	.000	.000						
0 tečna	8.770	.000	.000	.00000	.000	.000	.000		.000	.000	.00000		
23 TK	16.209999	849453.543	1022326.467	376.18424	500.000	849918.962	1022509.183						
6 kružnice	16.570	.000	.000	.00000	.000	849450.516	1022334.180		8.286	.069	2.10979		
24 KT	16.226569	849447.745	1022341.989	378.29403	.000	.000	.000						
0 tečna	84.394	.000	.000	.00000	.000	.000	.000		.000	.000	.00000		
25 TP	16.310963	849419.524	1022421.525	378.29403	.000	.000	.000						
7 klotoida	70.000	849419.524	1022421.525	378.29403	131.757	849403.903	1022465.551		46.715	23.378	-8.98455		
26 PK	16.380963	849393.065	1022486.265	369.30948	-248.000	849173.329	1022371.285						
7 kružnice	355.267	.000	.000	.00000	.000	849292.977	1022677.540		215.879	-80.798	-91.19766		
27 KP	16.736231	849089.732	1022604.770	278.11182	-248.000	849173.329	1022371.285						
7 klotoida	70.000	849026.394	1022575.113	269.12726	-131.757	849067.723	1022596.890		23.378	46.715	-8.98455		

28	PT	16.806231	849026.394	1022575.113	269.12726	.000	.000	.000			
0	tečna	604.098	.000	.000	.00000	.000	.000	.000	.000	.000	.00000
29	TP	17.410328	848491.949	1022293.506	269.12726	.000	.000	.000			
8	klotoida	70.000	848491.949	1022293.506	269.12726	204.597	848450.656	1022271.747	46.675	23.341	3.72604
30	PK	17.480328	848429.405	1022262.093	272.85330	598.000	848182.064	1022806.544			
8	kružnice	418.173	.000	.000	.00000	.000	848230.885	1022171.907	218.045	38.512	44.51796

Údaje o podrobných bodech trasy											
WB		STA	Y	X	sig	R					
**	OT	15.064377	850483.505	1022311.665	289.19905	.000					
	TP	15.067768	850480.163	1022311.093	289.19905	.000					
**		15.080000	850468.101	1022309.058	289.68013	809.341					
	PK	15.097768	850450.523	1022306.476	292.09277	330.000					
**		15.100000	850448.307	1022306.207	292.52339	330.000					
**		15.120000	850428.386	1022304.467	296.38169	330.000					
**		15.140000	850408.396	1022303.936	300.24000	330.000					
**		15.160000	850388.411	1022304.618	304.09830	330.000					
	KP	15.170065	850378.378	1022305.418	306.03996	330.000					
**		15.180000	850368.502	1022306.501	307.82965	380.390					
**		15.200000	850348.718	1022309.422	310.66241	549.209					
	PK	15.200065	850348.655	1022309.433	310.66992	550.000					
**		15.220000	850329.063	1022313.114	312.97739	550.000					
	KP	15.235812	850313.627	1022316.537	314.80762	550.000					
**		15.240000	850309.555	1022317.518	315.27208	600.274					
**		15.260000	850290.198	1022322.546	316.93018	1065.380					
**		15.280000	850270.938	1022327.936	317.66229	4731.272					
	PT	15.285812	850265.349	1022329.530	317.70139	.000					
**		15.300000	850251.706	1022333.425	317.70139	.000					
**		15.320000	850232.474	1022338.914	317.70139	.000					
**		15.340000	850213.243	1022344.404	317.70139	.000					
**		15.360000	850194.011	1022349.894	317.70139	.000					
**		15.380000	850174.779	1022355.383	317.70139	.000					
**		15.400000	850155.547	1022360.873	317.70139	.000					
**		15.420000	850136.315	1022366.363	317.70139	.000					
**		15.440000	850117.083	1022371.852	317.70139	.000					
	TP	15.456334	850101.377	1022376.336	317.70139	.000					
**		15.460000	850097.851	1022377.342	317.67593	-4582.914					
**		15.480000	850078.584	1022382.705	316.64022	-709.885					
**		15.500000	850059.175	1022387.524	314.08876	-384.741					
**		15.520000	850039.543	1022391.326	310.02153	-263.878					
	PK	15.526334	850033.276	1022392.242	308.41741	-240.001					
**		15.540000	850019.685	1022393.657	304.79239	-240.000					
**		15.560000	849999.702	1022394.329	299.48722	-240.000					
**		15.580000	849979.733	1022393.335	294.18206	-240.000					
	KT	15.594306	849965.534	1022391.606	290.38727	-240.000					
**		15.600000	849959.904	1022390.749	290.38715	.000					
	TK	15.607315	849952.673	1022389.649	290.38715	.000					
**		15.620000	849940.188	1022387.410	287.02243	-240.000					
**		15.640000	849920.794	1022382.551	281.71726	-240.000					
**		15.660000	849901.871	1022376.093	276.41210	-240.000					
**		15.680000	849883.551	1022368.083	271.10693	-240.000					
	KP	15.687752	849876.640	1022364.573	269.05074	-240.000					
	PT	15.697752	849867.865	1022359.778	267.72445	.000					
**		15.700000	849865.899	1022358.687	267.72445	.000					
	TP	15.705983	849860.669	1022355.782	267.72445	.000					
**		15.720000	849848.443	1022348.927	266.95240	-577.888					
	PK	15.725983	849843.266	1022345.928	266.15262	-405.009					
**		15.740000	849831.309	1022338.614	263.94929	-405.000					
**		15.760000	849814.703	1022327.471	260.80549	-405.000					
**		15.780000	849798.667	1022315.523	257.66169	-405.000					
**		15.800000	849783.240	1022302.798	254.51789	-405.000					
	KP	15.804784	849779.645	1022299.642	253.76595	-405.000					
**		15.820000	849768.427	1022289.361	251.98068	-821.856					
	PT	15.834784	849757.714	1022279.174	251.40810	.000					
	TP	15.836626	849756.383	1022277.900	251.40810	.000					
**		15.840000	849753.945	1022275.568	251.45641	2222.892					
**		15.860000	849739.300	1022261.949	253.72685	320.870					
	PK	15.866626	849734.299	1022257.602	255.22781	250.000					
**		15.880000	849723.872	1022249.230	258.63347	250.000					
**		15.900000	849707.481	1022237.779	263.72643	250.000					
	KP	15.901396	849706.303	1022237.029	264.08192	250.000					
	PK	15.904396	849703.757	1022235.443	265.02558	170.004					
**		15.920000	849690.094	1022227.917	270.86900	170.000					
**		15.940000	849671.674	1022220.156	278.35865	170.000					
**		15.960000	849652.470	1022214.610	285.84829	170.000					
**		15.980000	849632.748	1022211.357	293.33794	170.000					
**		16.000000	849612.781	1022210.442	300.82758	170.000					
**		16.020000	849592.844	1022211.876	308.31723	170.000					
**		16.040000	849573.213	1022215.641	315.80687	170.000					
**		16.060000	849554.160	1022221.683	323.29652	170.000					
**		16.080000	849535.948	1022229.921	330.78616	170.000					
**		16.100000	849518.828	1022240.239	338.27580	170.000					
**		16.120000	849503.038	1022252.495	345.76545	170.000					
**		16.140000	849488.796	1022266.520	353.25509	170.000					
**		16.160000	849476.298	1022282.119	360.74474	170.000					
**		16.180000	849465.718	1022299.078	368.23438	170.000					
**		16.200000	849457.202	1022317.161	375.72403	170.000					
	KT	16.201229	849456.748	1022318.304	376.18424	.000					
	TK	16.209999	849453.544	1022326.467	376.18424	.000					
**		16.220000	849449.982	1022335.812	377.45759	500.000					
**	KT	16.226569	849447.745	1022341.989	378.29398	500.000					
**		16.240000	849443.254	1022354.647	378.29403	.000					
**		16.260000	849436.566	1022373.495	378.29403	.000					
**		16.280000	849429.878	1022392.344	378.29403	.000					

**		16.300000	849423.190	1022411.193	378.29403	.000
**	TP	16.310963	849419.525	1022421.525	378.29403	.000
**		16.320000	849416.496	1022430.039	378.14430	-1921.063
**		16.340000	849409.594	1022448.810	376.74809	-597.865
**		16.360000	849402.069	1022467.338	373.88501	-354.021
**		16.380000	849393.510	1022485.410	369.55507	-251.461
**	PK	16.380963	849393.065	1022486.264	369.30956	-248.001
**		16.400000	849383.600	1022502.776	364.42274	-248.000
**		16.420000	849372.324	1022519.288	359.28871	-248.000
**		16.440000	849359.755	1022534.838	354.15468	-248.000
**		16.460000	849345.974	1022549.324	349.02065	-248.000
**		16.480000	849331.070	1022562.653	343.88662	-248.000
**		16.500000	849315.141	1022574.739	338.75258	-248.000
**		16.520000	849298.290	1022585.501	333.61855	-248.000
**		16.540000	849280.627	1022594.872	328.48452	-248.000
**		16.560000	849262.267	1022602.789	323.35049	-248.000
**		16.580000	849243.329	1022609.201	318.21646	-248.000
**		16.600000	849223.935	1022614.067	313.08243	-248.000
**		16.620000	849204.213	1022617.354	307.94840	-248.000
**		16.640000	849184.289	1022619.042	302.81437	-248.000
**		16.660000	849164.295	1022619.120	297.68034	-248.000
**		16.680000	849144.359	1022617.587	292.54631	-248.000
**		16.700000	849124.612	1022614.453	287.41228	-248.000
**		16.720000	849105.181	1022609.738	282.27825	-248.000
**	KP	16.736231	849089.732	1022604.770	278.11182	-248.000
**		16.740000	849086.193	1022603.473	277.17027	-262.114
**		16.760000	849067.721	1022595.817	273.04613	-375.508
**		16.780000	849049.680	1022587.187	270.38885	-661.821
**		16.800000	849031.907	1022578.016	269.19845	-2786.225
**	PT	16.806231	849026.394	1022575.113	269.12726	.000
**		16.820000	849014.212	1022568.694	269.12726	.000
**		16.840000	848996.518	1022559.371	269.12726	.000
**		16.860000	848978.824	1022550.048	269.12726	.000
**		16.880000	848961.130	1022540.725	269.12726	.000
**		16.900000	848943.436	1022531.401	269.12726	.000
**		16.920000	848925.742	1022522.078	269.12726	.000
**		16.940000	848908.048	1022512.755	269.12726	.000
**		16.960000	848890.354	1022503.432	269.12726	.000
**		16.980000	848872.660	1022494.108	269.12726	.000
**		17.000000	848854.966	1022484.785	269.12726	.000
**		17.020000	848837.272	1022475.462	269.12726	.000
**		17.040000	848819.578	1022466.139	269.12726	.000
**		17.060000	848801.884	1022456.815	269.12726	.000
**		17.080000	848784.190	1022447.492	269.12726	.000
**		17.100000	848766.496	1022438.169	269.12726	.000
**		17.120000	848748.802	1022428.846	269.12726	.000
**		17.140000	848731.108	1022419.522	269.12726	.000
**		17.160000	848713.414	1022410.199	269.12726	.000
**		17.180000	848695.720	1022400.876	269.12726	.000
**		17.200000	848678.026	1022391.553	269.12726	.000
**		17.220000	848660.332	1022382.230	269.12726	.000
**		17.240000	848642.638	1022372.906	269.12726	.000
**		17.260000	848624.944	1022363.583	269.12726	.000
**		17.280000	848607.250	1022354.260	269.12726	.000
**		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

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

ROADPAC SI32 - VIANIV Interaktivní niveleta

Verze: 2008

Datum: 14.12.2017

Akce: HLINKY

Trasa: 101

## 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,	15,064377	702,223	0,000	0,000	0,000	-4,740%	53,051	35,051
2,	15,117428	699,708	-6 000,000	18,000	-0,027	-4,140%	44,380	3,880
3,	15,161808	697,871	6 000,000	22,500	0,042	-4,890%	86,871	46,871
4,	15,248679	693,623	-10 000,000	17,500	-0,015	-4,540%	75,421	7,124
5,	15,324100	690,199	-4 000,000	50,797	-0,323	-2,000%	74,392	2,595
6,	15,398492	688,711	-10 000,000	21,000	-0,022	-1,580%	138,933	93,684
7,	15,537425	686,516	2 500,000	24,248	0,118	-3,520%	99,375	9,847
8,	15,636800	683,018	-4 800,000	65,280	-0,444	-0,800%	162,800	82,526
9,	15,799600	681,715	-6 000,000	14,994	-0,019	-0,300%	25,074	0,494
10,	15,824674	681,640	5 000,000	9,586	0,009	-0,684%	117,312	90,462
11,	15,941986	680,838	-9 000,000	17,264	-0,017	-0,300%	37,671	0,907
12,	15,979657	680,725	15 000,000	19,500	0,013	-0,560%	49,421	4,421
13,	16,029078	680,448	15 000,000	25,500	0,022	-0,900%	44,070	3,580
14,	16,073148	680,052	5 000,000	14,990	0,022	-1,500%	45,552	0,805
15,	16,118700	679,369	3 500,000	29,757	0,126	-3,200%	75,766	21,009
16,	16,194466	676,944	5 000,000	25,000	0,063	-4,200%	39,984	1,490
17,	16,234450	675,265	-3 000,000	13,494	-0,030	-3,300%	45,500	2,043
18,	16,279950	673,763	20 000,000	29,962	0,022	-3,600%	49,249	0,537
19,	16,329199	671,990	25 000,000	18,750	0,007	-3,750%	61,551	27,593
20,	16,390750	669,682	-8 000,000	15,208	-0,014	-3,370%	28,052	0,333
21,	16,418802	668,737	10 000,000	12,511	0,008	-3,620%	85,898	18,143
22,	16,504700	665,627	6 500,000	55,244	0,235	-5,320%	85,400	9,153
23,	16,590100	661,084	2 500,000	21,002	0,088	-7,000%	89,900	55,898
24,	16,680000	654,791	10 000,000	13,000	0,008	-7,260%	29,400	1,106
25,	16,709400	652,657	-6 000,000	15,294	-0,019	-6,750%	30,600	1,561
26,	16,740000	650,591	5 000,000	13,745	0,019	-7,300%	38,950	3,203
27,	16,778950	647,748	-11 000,000	22,002	-0,022	-6,900%	29,692	0,188
28,	16,808642	645,699	15 000,000	7,503	0,002	-7,000%	89,655	62,152
29,	16,898297	639,423	20 000,000	20,000	0,010	-7,200%	97,673	47,399
30,	16,995970	632,391	-3 500,000	30,274	-0,131	-5,470%	68,645	24,965
31,	17,064615	628,636	-2 000,000	13,406	-0,045	-4,130%	61,855	5,962
32,	17,126470	626,081	-5 000,000	42,487	-0,181	-2,430%	168,046	112,784
33,	17,294516	621,998	-3 500,000	12,775	-0,023	-1,700%	21,855	0,080
34,	17,316371	621,626	3 000,000	9,000	0,014	-2,300%	31,109	5,857
35,	17,347480	620,911	-2 500,000	16,252	-0,053	-1,000%	29,201	2,451
36,	17,376681	620,619	-3 000,000	10,498	-0,018	-0,300%	34,145	4,647
37,	17,410826	620,516	-4 000,000	19,000	-0,045	0,650%	24,869	2,119
38,	17,435695	620,678	15 000,000	3,750	0,000	0,600%	31,375	1,225
39,	17,467070	620,866	-2 200,000	26,400	-0,158	3,000%	548,619	437,219
40,	18,015689	637,325	-10 000,000	85,000	-0,361	4,700%	308,905	223,905
41,	18,324594	651,843	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
15,064377	V	702,223	702,220	-4,740%
15,084377		701,275	701,174	-4,740%
15,099428	ZZ	700,562	700,491	-4,740%
15,104377		700,329	700,256	-4,658%
15,117428	V	699,735	699,639	-4,440%
15,124377		699,431	699,343	-4,324%
15,135428	KZ	698,963	698,889	-4,140%
15,139308	ZZ	698,803	698,717	-4,140%
15,144377		698,591	698,490	-4,225%
15,161808	V	697,829	697,728	-4,515%
15,164377		697,712	697,624	-4,558%
15,184308	KZ	696,771	696,665	-4,890%
15,184377		696,767	696,662	-4,890%
15,204377		695,789	695,658	-4,890%
15,224377		694,811	694,709	-4,890%
15,231179	ZZ	694,479	694,394	-4,890%
15,244377		693,842	693,775	-4,758%
15,248679	V	693,638	693,565	-4,715%
15,264377		692,911	692,827	-4,558%
15,266179	KZ	692,829	692,740	-4,540%
15,273303	ZZ	692,505	692,419	-4,540%
15,284377		692,018	691,914	-4,263%
15,304377		691,215	691,136	-3,763%
15,324100	V	690,521	690,438	-3,270%
15,324377		690,512	690,428	-3,263%
15,344377		689,910	689,812	-2,763%
15,364377		689,407	689,284	-2,263%
15,374897	KZ	689,183	689,088	-2,000%
15,377492	ZZ	689,131	689,038	-2,000%
15,384377		688,996	688,907	-1,931%

15,398492	V	688,733	688,640	-1,790%
15,404377		688,629	688,524	-1,731%
15,419492	KZ	688,379	688,274	-1,580%
15,424377		688,302	688,203	-1,580%
15,444377		687,986	687,891	-1,580%
15,464377		687,670	687,582	-1,580%
15,484377		687,354	687,264	-1,580%
15,504377		687,038	686,940	-1,580%
15,513177	ZZ	686,899	686,775	-1,580%
15,524377		686,697	686,570	-2,028%
15,537425	V	686,398	686,294	-2,550%
15,544377		686,211	686,131	-2,828%
15,561673	KZ	685,662	685,566	-3,520%
15,564377		685,567	685,468	-3,520%
15,571520	ZZ	685,316	685,182	-3,520%
15,584377		684,880	684,767	-3,252%
15,604377		684,271	684,160	-2,836%
15,624377		683,746	683,618	-2,419%
15,636800	V	683,462	683,366	-2,160%
15,644377		683,304	683,211	-2,002%
15,664377		682,945	682,842	-1,586%
15,684377		682,670	682,586	-1,169%
15,702080	KZ	682,495	682,407	-0,800%
15,704377		682,477	682,391	-0,800%
15,724377		682,317	682,215	-0,800%
15,744377		682,157	682,062	-0,800%
15,764377		681,997	681,927	-0,800%
15,784377		681,837	681,722	-0,800%
15,784606	ZZ	681,835	681,720	-0,800%
15,799600	V	681,734	681,640	-0,550%
15,804377		681,710	681,621	-0,471%
15,814594	KZ	681,670	681,590	-0,300%
15,815088	ZZ	681,669	681,590	-0,300%
15,824377		681,632	681,570	-0,486%
15,824674	V	681,631	681,570	-0,492%
15,834260	KZ	681,574	681,506	-0,684%
15,844377		681,505	681,439	-0,684%
15,864377		681,369	681,298	-0,684%
15,884377		681,232	681,145	-0,684%
15,904377		681,095	680,994	-0,684%
15,924377		680,958	680,849	-0,684%
15,924722	ZZ	680,956	680,847	-0,684%
15,941986	V	680,855	680,723	-0,492%
15,944377		680,843	680,725	-0,465%
15,959250	KZ	680,786	680,683	-0,300%
15,960157	ZZ	680,784	680,680	-0,300%
15,964377		680,770	680,680	-0,328%
15,979657	V	680,712	680,650	-0,430%
15,984377		680,691	680,620	-0,462%
15,999157	KZ	680,616	680,495	-0,560%
16,003578	ZZ	680,591	680,469	-0,560%
16,004377		680,587	680,464	-0,565%
16,024377		680,460	680,370	-0,699%
16,029078	V	680,427	680,358	-0,730%
16,044377		680,307	680,227	-0,832%
16,054578	KZ	680,219	680,119	-0,900%
16,058158	ZZ	680,187	680,097	-0,900%
16,064377		680,127	680,054	-1,024%
16,073148	V	680,029	679,961	-1,200%
16,084377		679,882	679,774	-1,424%
16,088138	KZ	679,827	679,705	-1,500%
16,088943	ZZ	679,815	679,697	-1,500%
16,104377		679,549	679,471	-1,141%
16,118700	V	679,242	679,161	-2,350%
16,124377		679,104	679,009	-2,512%
16,144377		678,544	678,456	-3,083%
16,148457	KZ	678,416	678,332	-3,200%
16,164377		677,907	677,800	-3,200%
16,169466	ZZ	677,744	677,624	-3,200%
16,184377		677,245	677,132	-3,498%
16,194466	V	676,881	676,822	-3,700%
16,204377		676,505	676,425	-3,898%
16,219466	KZ	675,894	675,811	-4,200%
16,220956	ZZ	675,831	675,750	-4,200%
16,224377		675,690	675,601	-4,086%
16,234450	V	675,295	675,190	-3,750%
16,244377		674,939	674,852	-3,419%
16,247944	KZ	674,819	674,731	-3,300%
16,249988	ZZ	674,752	674,661	-3,300%
16,264377		674,272	674,167	-3,372%
16,279950	V	673,741	673,617	-3,450%
16,284377		673,587	673,463	-3,472%
16,304377		672,883	672,767	-3,572%
16,309912	KZ	672,684	672,576	-3,600%
16,310449	ZZ	672,665	672,556	-3,600%
16,324377		672,160	672,063	-3,656%
16,329199	V	671,983	671,892	-3,675%
16,344377		671,421	671,319	-3,736%
16,347949	KZ	671,287	671,184	-3,750%
16,364377		670,671	670,587	-3,750%
16,375542	ZZ	670,252	670,163	-3,750%
16,384377		669,926	669,840	-3,640%
16,390750	V	669,696	669,602	-3,560%
16,404377		669,223	669,117	-3,390%
16,405958	KZ	669,169	669,058	-3,370%
16,406291	ZZ	669,158	669,045	-3,370%
16,418802	V	668,729	668,624	-3,495%
16,424377		668,532	668,432	-3,551%
16,431313	KZ	668,284	668,205	-3,620%

16,444377		667,811	667,743	-3,620%
16,449456	ZZ	667,627	667,562	-3,620%
16,464377		667,070	666,987	-3,850%
16,484377		666,269	666,196	-4,157%
16,504377		665,407	665,321	-4,465%
16,504700	V	665,392	665,306	-4,470%
16,524377		664,483	664,380	-4,773%
16,544377		663,498	663,394	-5,080%
16,559944	KZ	662,688	662,600	-5,320%
16,564377		662,452	662,361	-5,320%
16,569098	ZZ	662,201	662,113	-5,320%
16,584377		661,342	661,273	-5,931%
16,590100	V	660,996	660,930	-6,160%
16,604377		660,076	660,001	-6,731%
16,611102	KZ	659,614	659,522	-7,000%
16,624377		658,685	658,573	-7,000%
16,644377		657,285	657,174	-7,000%
16,664377		655,885	655,794	-7,000%
16,667000	ZZ	655,701	655,610	-7,000%
16,680000	V	654,782	654,678	-7,130%
16,684377		654,469	654,364	-7,174%
16,693000	KZ	653,847	653,737	-7,260%
16,694106	ZZ	653,767	653,658	-7,260%
16,704377		653,030	652,918	-7,089%
16,709400	V	652,676	652,552	-7,005%
16,724377		651,646	651,547	-6,756%
16,724694	KZ	651,624	651,525	-6,750%
16,726255	ZZ	651,519	651,418	-6,750%
16,740000	V	650,572	650,480	-7,025%
16,744377		650,263	650,176	-7,113%
16,753745	KZ	649,588	649,490	-7,300%
16,756948	ZZ	649,354	649,245	-7,300%
16,764377		648,814	648,690	-7,233%
16,778950	V	647,770	647,650	-7,100%
16,784377		647,386	647,266	-7,051%
16,800952	KZ	646,229	646,120	-6,900%
16,801139	ZZ	646,217	646,107	-6,900%
16,804377		645,993	645,882	-6,922%
16,808642	V	645,697	645,581	-6,950%
16,816145	KZ	645,174	645,036	-7,000%
16,824377		644,597	644,453	-7,000%
16,844377		643,197	643,063	-7,000%
16,864377		641,797	641,659	-7,000%
16,878297	ZZ	640,823	640,695	-7,000%
16,884377		640,396	640,275	-7,030%
16,898297	V	639,413	639,291	-7,100%
16,904377		638,980	638,863	-7,130%
16,918297	KZ	637,983	637,832	-7,200%
16,924377		637,545	637,389	-7,200%
16,944377		636,105	635,967	-7,200%
16,964377		634,665	634,582	-7,200%
16,965696	ZZ	634,570	634,488	-7,200%
16,984377		633,275	633,186	-6,666%
16,995970	V	632,521	632,423	-6,335%
17,004377		631,999	631,922	-6,095%
17,024377		630,837	630,769	-5,523%
17,026244	KZ	630,735	630,665	-5,470%
17,044377		629,743	629,657	-5,470%
17,051209	ZZ	629,369	629,270	-5,470%
17,064377		628,692	628,538	-4,812%
17,064615	V	628,681	628,526	-4,800%
17,078021	KZ	628,082	627,954	-4,130%
17,083983	ZZ	627,836	627,710	-4,130%
17,084377		627,820	627,694	-4,122%
17,104377		627,035	626,907	-3,722%
17,124377		626,331	626,235	-3,322%
17,126470	V	626,262	626,171	-3,280%
17,144377		625,707	625,629	-2,922%
17,164377		625,162	625,067	-2,522%
17,168957	KZ	625,049	624,942	-2,430%
17,184377		624,674	624,546	-2,430%
17,204377		624,188	624,068	-2,430%
17,224377		623,702	623,556	-2,430%
17,244377		623,216	623,087	-2,430%
17,264377		622,730	622,599	-2,430%
17,281741	ZZ	622,308	622,180	-2,430%
17,284377		622,245	622,123	-2,355%
17,294516	V	622,021	621,891	-2,065%
17,304377		621,831	621,717	-1,783%
17,307291	KZ	621,781	621,663	-1,700%
17,307371	ZZ	621,779	621,661	-1,700%
17,316371	V	621,613	621,500	-2,000%
17,324377		621,442	621,337	-2,267%
17,325371	KZ	621,419	621,316	-2,300%
17,331228	ZZ	621,285	621,181	-2,300%
17,344377		621,017	620,870	-1,774%
17,347480	V	620,964	620,826	-1,650%
17,363732	KZ	620,748	620,646	-1,000%
17,364377		620,742	620,640	-1,000%
17,366183	ZZ	620,724	620,614	-1,000%
17,376681	V	620,637	620,530	-0,650%
17,384377		620,597	620,479	-0,393%
17,387179	KZ	620,587	620,465	-0,300%
17,391826	ZZ	620,573	620,465	-0,300%
17,403826	VZ	620,555	620,499	0,000%
17,410826	V	620,561	617,207	0,175%
17,429826	KZ	620,640	620,587	0,650%
17,431945	ZZ	620,654	620,592	0,650%
17,435695	V	620,678	620,600	0,625%

17,439445	KZ	620,700	620,628	0,600%
17,440670	ZZ	620,708	620,646	0,600%
17,467070	V	621,025	620,970	1,800%
17,493470	KZ	621,658	621,604	3,000%
17,930689	ZZ	634,775	634,661	3,000%
18,015689	V	637,686	637,580	3,850%
18,100689	KZ	641,320	641,247	4,700%

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