4avg

run	duration	cost	costWithPenalty	penalty	softConstraintViolations
1	128183	8276	8276.0	0.0	0
2	130258	8276	8276.0	0.0	0
3	128548	8276	8276.0	0.0	0
4	119949	8276	8276.0	0.0	0
5	118184	8276	8276.0	0.0	0
6	122302	8276	8276.0	0.0	0
7	119703	8276	8276.0	0.0	0
8	124077	8276	8276.0	0.0	0
9	146448	8276	8276.0	0.0	0
10	128089	8276	8276.0	0.0	0

4sum

run	duration	cost	costWithPenalty	penalty	softConstraintViolations
1	128183	8276	8276.0	0.0	0
2	130258	8276	8276.0	0.0	0
3	128548	8276	8276.0	0.0	0
4	119949	8276	8276.0	0.0	0
5	118184	8276	8276.0	0.0	0
6	122302	8276	8276.0	0.0	0
7	119703	8276	8276.0	0.0	0
8	124077	8276	8276.0	0.0	0
9	146448	8276	8276.0	0.0	0
10	128089	8276	8276.0	0.0	0

6avg

run	duration	cost	costWithPenalty	penalty	softConstraintViolations
1	300001	23916	23916.0	0.0	0
2	300003	23916	23916.0	0.0	0
3	300002	24073	24073.0	0.0	0
4	300002	23916	23916.0	0.0	0
5	300006	23916	23916.0	0.0	0
6	300003	23916	23916.0	0.0	0
7	300003	23916	23916.0	0.0	0
8	300003	23916	23916.0	0.0	0
9	300002	23916	23916.0	0.0	0
10	300002	23916	23916.0	0.0	0

6sum

run	duration	cost	costWithPenalty	penalty	softConstraintViolations
1	300001	23916	23916.0	0.0	0
2	300003	23916	23916.0	0.0	0
3	300002	24073	24073.0	0.0	0
4	300002	23916	23916.0	0.0	0
5	300006	23916	23916.0	0.0	0
6	300003	23916	23916.0	0.0	0
7	300003	23916	23916.0	0.0	0
8	300003	23916	23916.0	0.0	0
9	300002	23916	23916.0	0.0	0
10	300002	23916	23916.0	0.0	0

8avg

run	duration	cost	costWithPenalty	penalty	softConstraintViolations
1	300002	40806	40806.0	0.0	0
2	300002	40929	40929.0	0.0	0
3	300002	40929	40929.0	0.0	0
4	300003	40929	40929.0	0.0	0
5	300002	40806	40806.0	0.0	0
6	300004	40806	40806.0	0.0	0
7	300004	40949	40949.0	0.0	0
8	300003	40929	40929.0	0.0	0
9	300003	41833	41833.0	0.0	0
10	300003	41326	41326.0	0.0	0

8sum

run	duration	cost	costWithPenalty	penalty	softConstraintViolations
1	300002	40806	40806.0	0.0	0
2	300002	40929	40929.0	0.0	0
3	300002	40929	40929.0	0.0	0
4	300003	40929	40929.0	0.0	0
5	300002	40806	40806.0	0.0	0
6	300004	40806	40806.0	0.0	0
7	300004	40949	40949.0	0.0	0
8	300003	40929	40929.0	0.0	0
9	300003	41833	41833.0	0.0	0
10	300003	41326	41326.0	0.0	0

10avg

run	duration	cost	costWithPenalty	penalty	softConstraintViolations
1	300003	64463	64463.0	0.0	0
2	300003	64948	64948.0	0.0	0
3	300004	63660	63660.0	0.0	0
4	300004	64463	64463.0	0.0	0
5	300003	64197	64197.0	0.0	0
6	300004	63660	63660.0	0.0	0
7	300004	64463	64463.0	0.0	0
8	300004	64948	64948.0	0.0	0
9	300005	63843	63843.0	0.0	0
10	300003	64470	64470.0	0.0	0

10sum

run	duration	cost	costWithPenalty	penalty	softConstraintViolations
1	300003	64463	64463.0	0.0	0
2	300003	64948	64948.0	0.0	0
3	300004	63660	63660.0	0.0	0
4	300004	64463	64463.0	0.0	0
5	300003	64197	64197.0	0.0	0
6	300004	63660	63660.0	0.0	0
7	300004	64463	64463.0	0.0	0
8	300004	64948	64948.0	0.0	0
9	300005	63843	63843.0	0.0	0
10	300003	64470	64470.0	0.0	0

12sum

run	duration	cost	costWithPenalty	penalty	softConstraintViolations
1	300003	125981	125981.0	0.0	0
2	300005	127639	127639.0	0.0	0
3	300002	126886	126886.0	0.0	0
4	300005	124097	124097.0	0.0	0
5	300003	124614	124614.0	0.0	0
6	300003	124097	124097.0	0.0	0
7	300003	124097	124097.0	0.0	0
8	300003	124614	124614.0	0.0	0
9	300004	126886	126886.0	0.0	0
10	300004	124837	124837.0	0.0	0

12avg

run	duration	cost	costWithPenalty	penalty	softConstraintViolations
1	300003	125981	125981.0	0.0	0
2	300005	127639	127639.0	0.0	0
3	300002	126886	126886.0	0.0	0
4	300005	124097	124097.0	0.0	0
5	300003	124614	124614.0	0.0	0
6	300003	124097	124097.0	0.0	0
7	300003	124097	124097.0	0.0	0
8	300003	124614	124614.0	0.0	0
9	300004	126886	126886.0	0.0	0
10	300004	124837	124837.0	0.0	0

	min cost	max cost	avg cost	median cost	avg-min	avg+max
4	8276	8276	8276	8276	0	0
6	23916	24073	23931.7	23916	15.7	141.3
8	40806	41833	41024.2	40929	218.2	808.8
10	63660	64948	64311.5	64463	651.5	636.5
12	124097	127639	125374.8	124725.5	1277.8	2264.2

iteration	cost	penalty	softConstraintViolations	costs w/o sc-violations	costs with sc-violations	normalized cost w/o sc-violations	normalized cost with sc-violations	normalized penalty factor
1	111,000	0.125	102		111,000		0.2237413	0.0454545
2	108,505	0.25	102		108,505		0.1652323	0.0909091
3	107,150	0.375	102		107,150		0.1334568	0.1363636
4	105,402	0.5	102		105,402		0.0924654	0.1818182
5	101,459	0.625	102		101,459		0.0000000	0.2272727
6	108,730	0.75	78		108,730		0.1705086	0.2727273
7	121,179	0.875	43		121,179		0.4624440	0.3181818
8	131,184	1.0	24		131,184		0.6970663	0.3636364
9	135,792	1.125	16		135,792		0.8051263	0.4090909
10	141,776	1.25	6		141,776		0.9454541	0.4545455
11	142,337	1.375	3		142,337		0.9586099	0.5000000
12	144,102	1.5	1		144,102		1.0000000	0.5454545
13	142,204	1.625	1		142,204		0.9554909	0.5909091
14	141,269	1.75	1		141,269		0.9335647	0.6363636
15	140,525	1.875	1		140,525		0.9161175	0.6818182
16	140,132	2.0	1		140,132		0.9069015	0.7272727
17	138,192	2.125	1		138,192		0.8614075	0.7727273
18	136,682	2.25	1		136,682		0.8259972	0.8181818
19	136,300	2.375	1		136,300		0.8170391	0.8636364
20	139,255	2.25	0	139,255		0.8863354		0.8181818
21	138,998	2.125	0	138,998		0.8803086		0.7727273
22	138,633	2.0	0	138,633		0.8717492		0.7272727
23	138,633	1.875	0	138,633		0.8717492		0.6818182
24	137,997	1.75	0	137,997		0.8568347		0.6363636
25	137,674	1.625	0	137,674		0.8492601		0.5909091
26	135,145	1.75	1		135,145		0.7899538	0.6363636
27	134,753	1.875	1		134,753		0.7807612	0.6818182
28	134,595	2.0	1		134,595		0.7770560	0.7272727
29	134,595	2.125	1		134,595		0.7770560	0.7727273
30	134,595	2.25	1		134,595		0.7770560	0.8181818
31	134,595	2.375	1		134,595		0.7770560	0.8636364
32	134,442	2.5	1		134,442		0.7734681	0.9090909
33	134,083	2.625	1		134,083		0.7650494	0.9545455
34	133,932	2.75	1		133,932		0.7615083	1.0000000
35	137,451	2.625	0	137,451		0.8440307		0.9545455
36	136,982	2.5	0	136,982		0.8330324		0.9090909
37	136,462	2.375	0	136,462		0.8208381		0.8636364
38	136,114	2.25	0	136,114		0.8126773		0.8181818
39	135,928	2.125	0	135,928		0.8083156		0.7727273
40	135,745	2.0	0	135,745		0.8040241		0.7272727
41	135,438	1.875	0	135,438		0.7968248		0.6818182
42	134,735	1.75	0	134,735		0.7803391		0.6363636
43	134,486	1.625	0	134,486		0.7744999		0.5909091
44	133,966	1.5	0	133,966		0.7623037		0.5454545
45	133,830	1.375	0	133,830		0.7591164		0.5000000
46	133,732	1.25	0	133,732		0.7568182		0.4545455
47	133,723	1.125	0	133,723		0.7566072		0.4090909
48	132,961	1.0	0	132,961		0.7387379		0.3636364
49	132,709	0.875	0	132,709		0.7328284		0.3181818
50	131,202	1.0	1		131,202		0.6974885	0.3636364
51	132,220	0.875	0	132,220		0.7213611		0.3181818
52	132,220	0.75	0	132,220		0.7213611		0.2727273
53	132,220	0.625	0	132,220		0.7213611		0.2272727
54	132,220	0.5	0	132,220		0.7213611		0.1818182
55	132,220	0.375	0	132,220		0.7213611		0.1363636
56	132,220	0.25	0	132,220		0.7213611		0.0909091
57	132,220	0.125	0	132,220		0.7213611		0.0454545
58	130,641	0.25	3		130,641		0.6843327	0.0909091
59	128,213	0.375	7		128,213		0.6273949	0.1363636
60	127,195	0.5	8		127,195		0.6035223	0.1818182
61	127,496	0.625	6		127,496		0.6105809	0.2272727
62	128,016	0.75	4		128,016		0.6227751	0.2727273
63	128,235	0.875	3		128,235		0.6279108	0.3181818
64	127,825	1.0	3		127,825		0.6182961	0.3636364
65	127,561	1.125	2		127,561		0.6121052	0.4090909
66	127,426	1.25	2		127,426		0.6089393	0.4545455
67	129,043	1.125	0	129,043		0.6468588		0.4090909
68	128,290	1.0	0	128,290		0.6292006		0.3636364
69	128,071	0.875	0	128,071		0.6240649		0.3181818
70	128,025	0.75	0	128,025		0.6229862		0.2727273
71	128,025	0.625	0	128,025		0.6229862		0.2272727
72	128,025	0.5	0	128,025		0.6229862		0.1818182
73	128,025	0.375	0	128,025		0.6229862		0.1363636
74	128,025	0.25	0	128,025		0.6229862		0.0909091
75	128,025	0.125	0	128,025		0.6229862		0.0454545
76	128,025	0.0	0	128,025		0.6229862		0.0000000
77	128,025	0.0	0	128,025		0.6229862		0.0000000
78	128,025	0.0	0	128,025		0.6229862		0.0000000
79	127,360	0.125	8		127,360		0.6073916	0.0454545
80	126,505	0.25	8		126,505		0.5873414	0.0909091
81	126,556	0.375	5		126,556		0.5885374	0.1363636
82	127,323	0.5	3		127,323		0.6065239	0.1818182
83	127,188	0.625	2		127,188		0.6033581	0.2272727
84	126,914	0.75	2		126,914		0.5969327	0.2727273
85	126,759	0.875	2		126,759		0.5932978	0.3181818
86	126,485	1.0	2		126,485		0.5868724	0.3636364
87	126,173	1.125	2		126,173		0.5795558	0.4090909
88	125,824	1.25	2		125,824		0.5713716	0.4545455
89	127,432	1.125	0	127,432		0.6090800		0.4090909
90	126,825	1.0	0	126,825		0.5948456		0.3636364
91	126,715	0.875	0	126,715		0.5922660		0.3181818
92	126,675	0.75	0	126,675		0.5913280		0.2727273
93	126,642	0.625	0	126,642		0.5905541		0.2272727
94	125,646	0.5	0	125,646		0.5671974		0.1818182
95	124,741	0.375	0	124,741		0.5459747		0.1363636
96	123,232	0.5	2		123,232		0.5105879	0.1818182
97	122,723	0.625	2		122,723		0.4986516	0.2272727
98	122,603	0.75	2		122,603		0.4958375	0.2727273
99	124,112	0.625	0	124,112		0.5312244		0.2272727
100	124,097	0.5	0	124,097		0.5308726		0.1818182
101	122,588	0.625	2		122,588		0.4954858	0.2272727
102	122,479	0.75	2		122,479		0.4929297	0.2727273
103	122,479	0.875	2		122,479		0.4929297	0.3181818
104	122,479	1.0	2		122,479		0.4929297	0.3636364
105	122,479	1.125	2		122,479		0.4929297	0.4090909
106	122,479	1.25	2		122,479		0.4929297	0.4545455
107	122,479	1.375	2		122,479		0.4929297	0.5000000
108	122,479	1.5	2		122,479		0.4929297	0.5454545
109	122,479	1.625	2		122,479		0.4929297	0.5909091
110	122,479	1.75	2		122,479		0.4929297	0.6363636
111	122,479	1.875	2		122,479		0.4929297	0.6818182
112	122,479	2.0	2		122,479		0.4929297	0.7272727
113	122,479	2.125	2		122,479		0.4929297	0.7727273
114	122,479	2.25	2		122,479		0.4929297	0.8181818
115	122,479	2.375	2		122,479		0.4929297	0.8636364
116	122,479	2.5	2		122,479		0.4929297	0.9090909
117	122,479	2.625	2		122,479		0.4929297	0.9545455
118	126,475	2.5	0	126,475		0.5866379		0.9090909
119	126,337	2.375	0	126,337		0.5834017		0.8636364
120	126,310	2.25	0	126,310		0.5827686		0.8181818
121	126,208	2.125	0	126,208		0.5803766		0.7727273
122	126,208	2.0	0	126,208		0.5803766		0.7272727
123	126,208	1.875	0	126,208		0.5803766		0.6818182
124	126,208	1.75	0	126,208		0.5803766		0.6363636
125	126,208	1.625	0	126,208		0.5803766		0.5909091
126	126,208	1.5	0	126,208		0.5803766		0.5454545
127	126,208	1.375	0	126,208		0.5803766		0.5000000
128	126,208	1.25	0	126,208		0.5803766		0.4545455
129	126,208	1.125	0	126,208		0.5803766		0.4090909
130	126,208	1.0	0	126,208		0.5803766		0.3636364

124,097
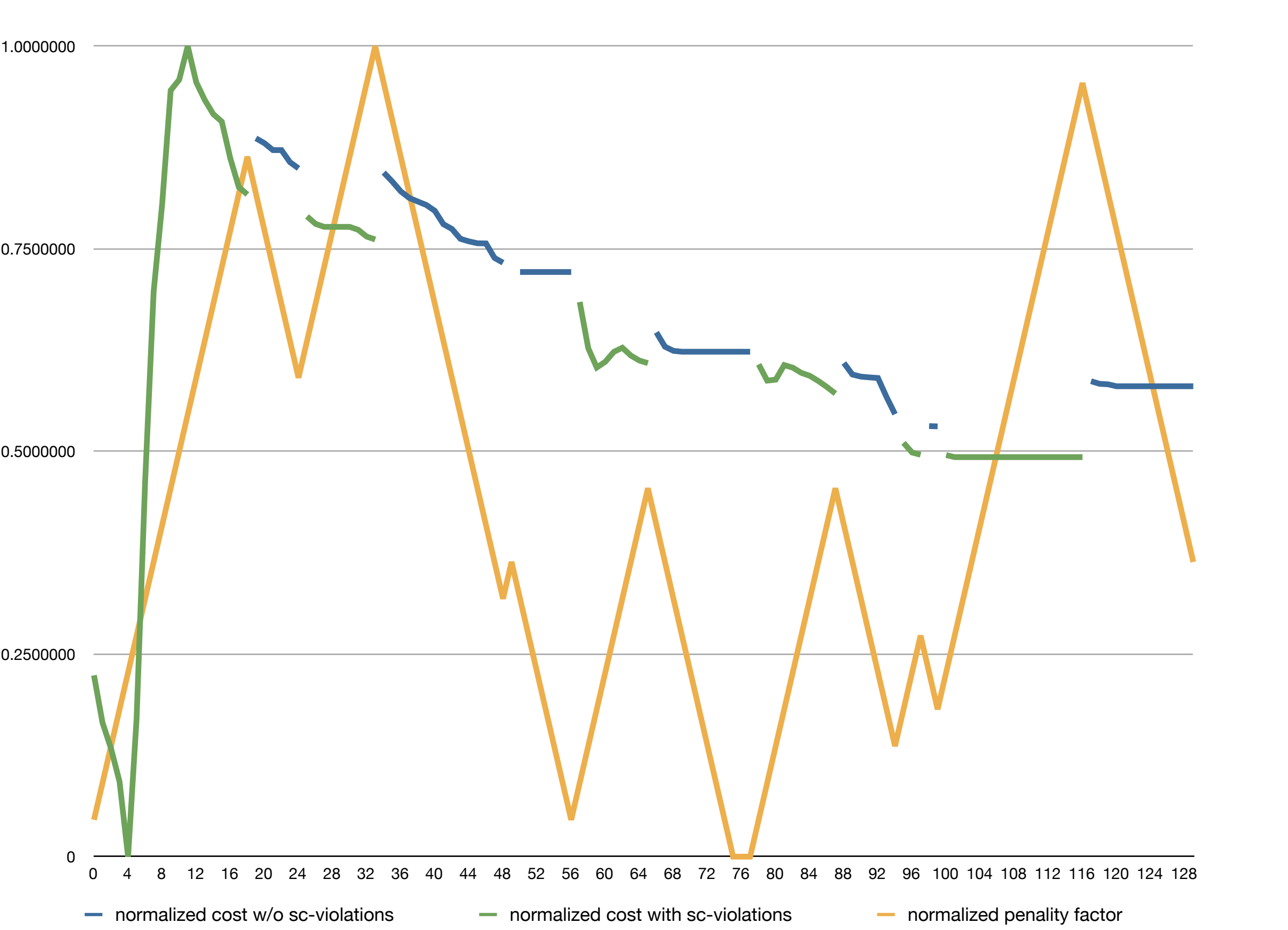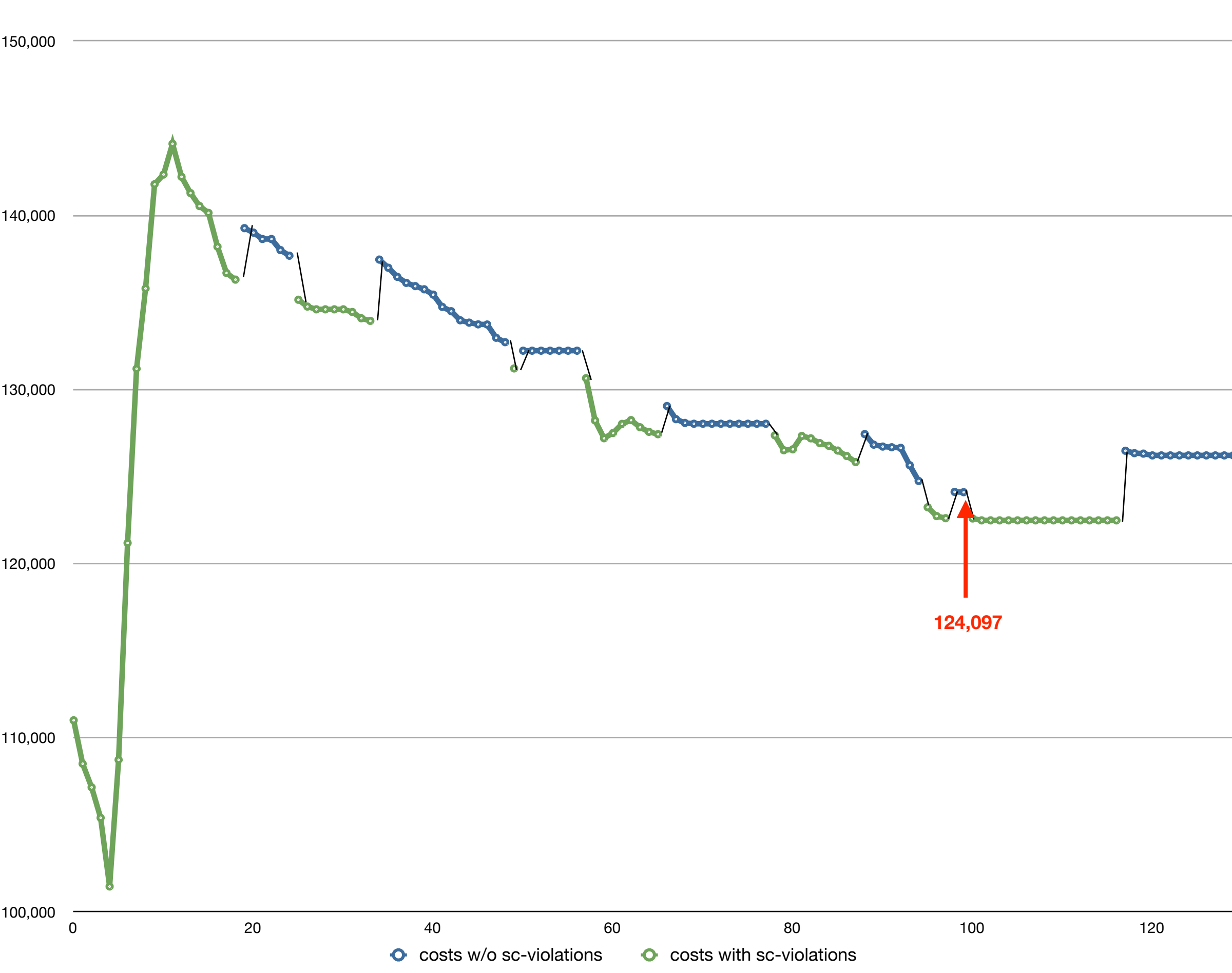
	neighborhoodsExplored	nonTabuNeighborhoodsExplored	betterNonTabuNeighborhoodsExplored	worseNonTabuNeighborhoodsExplored	tabuNeighborhoodsExplored	legalNeighborhoodsExplored	betterLegalNeighborhoodsExplored	worseLegalNeighborhoodsExplored	start	end	duration	cost	costWithPenalty	penalty	softConstraintViolations
1	579662	577359	807	576552	2303	24731	0	24731	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299994	136,627	136627.0	0.0	0
2	571267	569674	741	568933	1593	47779	0	47779	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299914	127,810	127810.0	0.0	0
3	553397	550375	799	549576	3022	24069	0	24069	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299907	127,583	127583.0	0.0	0
4	563166	561717	680	561037	1449	40927	0	40927	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299903	133,189	133189.0	0.0	0
5	468567	466275	779	465496	2292	10927	0	10927	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299851	130,941	130941.0	0.0	0
6	564627	563656	759	562897	971	28728	0	28728	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299830	129,293	129293.0	0.0	0
7	578063	576501	732	575769	1562	30307	0	30307	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299819	131,643	131643.0	0.0	0
8	517538	515551	791	514760	1987	35111	0	35111	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299649	127,169	127169.0	0.0	0
9	589680	587329	802	586527	2351	50422	0	50422	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299656	132,121	132121.0	0.0	0
10	573241	571941	814	571127	1300	40694	0	40694	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299668	127,342	127342.0	0.0	0
11	563658	562438	739	561699	1220	35609	0	35609	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299674	132,587	132587.0	0.0	0
12	553187	549824	696	549128	3363	8387	0	8387	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299683	138,390	138390.0	0.0	0
13	568195	565776	802	564974	2419	29368	0	29368	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299685	128,514	128514.0	0.0	0
14	579105	576757	822	575935	2348	20831	0	20831	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299690	131,750	131750.0	0.0	0
15	568920	565718	651	565067	3202	13880	0	13880	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299717	130,214	130214.0	0.0	0
16	470459	468485	843	467642	1974	15501	0	15501	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299718	134,991	134991.0	0.0	0
17	565521	563096	736	562360	2425	33389	0	33389	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299736	133,986	133986.0	0.0	0
18	558836	554502	694	553808	4334	933	0	933	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299723	135,843	135843.0	0.0	0
19	564179	561283	673	560610	2896	15397	0	15397	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299745	134,805	134805.0	0.0	0
20	549267	545926	691	545235	3341	8387	0	8387	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299740	138,390	138390.0	0.0	0
21	544028	541303	790	540513	2725	15321	0	15321	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299569	131,622	131622.0	0.0	0
22	545554	544459	825	543634	1095	47099	0	47099	Sun Jun 26 04:20:33 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299759	136,240	136240.0	0.0	0
23	550987	547492	879	546613	3495	13904	0	13904	Sun Jun 26 04:20:34 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299349	133,454	133454.0	0.0	0
24	546739	542363	584	541779	4376	1784	0	1784	Sun Jun 26 04:20:34 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299556	137,536	137536.0	0.0	0
25	569392	567692	733	566959	1700	36479	0	36479	Sun Jun 26 04:20:34 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299365	131,810	131810.0	0.0	0
26	591238	590018	777	589241	1220	46723	0	46723	Sun Jun 26 04:20:34 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299358	124,097	124097.0	0.0	0
27	598399	597020	745	596275	1379	39514	0	39514	Sun Jun 26 04:20:34 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299377	131,287	131287.0	0.0	0
28	550445	547495	885	546610	2950	15467	0	15467	Sun Jun 26 04:20:34 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299366	133,802	133802.0	0.0	0
29	568375	566900	760	566140	1475	32905	0	32905	Sun Jun 26 04:20:34 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299389	132,051	132051.0	0.0	0
30	570785	569437	655	568782	1348	41992	0	41992	Sun Jun 26 04:20:34 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299386	130,839	130839.0	0.0	0
31	574656	573767	894	572873	889	28129	0	28129	Sun Jun 26 04:20:34 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299436	130,606	130606.0	0.0	0
32	523337	521178	712	520466	2159	25969	0	25969	Sun Jun 26 04:20:34 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299422	130,751	130751.0	0.0	0
33	554582	552050	813	551237	2532	29879	0	29879	Sun Jun 26 04:20:34 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299344	134,998	134998.0	0.0	0
34	554107	550727	783	549944	3380	16675	0	16675	Sun Jun 26 04:20:34 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299258	135,323	135323.0	0.0	0
35	574441	572538	706	571832	1903	42167	0	42167	Sun Jun 26 04:20:34 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299375	130,687	130687.0	0.0	0
36	564265	560922	678	560244	3343	16369	0	16369	Sun Jun 26 04:20:34 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299354	140,320	140320.0	0.0	0
37	568289	564826	714	564112	3463	21515	0	21515	Sun Jun 26 04:20:34 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	298993	130,624	130624.0	0.0	0
38	564186	562966	739	562227	1220	35609	0	35609	Sun Jun 26 04:20:34 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	299003	132,587	132587.0	0.0	0
39	491536	488364	714	487650	3172	8026	0	8026	Sun Jun 26 04:20:34 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	298986	135,026	135026.0	0.0	0
40	555503	552100	690	551410	3403	20749	0	20749	Sun Jun 26 04:20:34 CEST 2011	Sun Jun 26 04:25:33 CEST 2011	298996	130,624	130624.0	0.0	0