

**Zeiss-Norm 34-1107**  
**Optik - Radien**  
**für sphärische Wirkflächen**

Radius	Radien-Nr.	Radius	Radien-Nr.	Radius	Radien-Nr.	Radius	Radien-Nr.
0,390	5	2,734	430	5,391	870	8,289	1320
0,482	7	2,760	440	5,428	873	8,389	1330
0,599	10	2,875	450	5,495	878	8,518	1340
0,695	20	2,964	460	5,511	880	8,538	1343
0,755	30	2,991	470	5,557	890	8,631	1350
0,785	40	3,078	479	5,605	900	8,712	1360
0,799	50	3,085	480	5,637	905	8,769	1366
0,838	60	3,157	490	5,676	910	8,807	1370
0,866	70	3,214	500	5,708	920	8,904	1380
0,896	80	3,244	503	5,740	930	9,005	1390
0,931	82	3,304	510	5,799	940	9,104	1400
0,996	90	3,322	520	5,868	950	9,179	1410
1,031	95	3,387	530	5,933	960	9,249	1416
1,067	100	3,414	540	5,980	967	9,293	1420
1,090	110	3,443	550	6,001	970	9,360	1430
1,195	120	3,484	560	6,048	980	9,415	1440
1,255	130	3,490	570	6,062	990	9,507	1450
1,300	140	3,551	580	6,167	1000	9,560	1460
1,314	144	3,582	583	6,211	1010	9,592	1463
1,357	150	3,626	590	6,244	1020	9,658	1470
1,388	160	3,641	600	6,315	1030	9,712	1480
1,402	170	3,659	610	6,389	1040	9,833	1490
1,472	176	3,713	620	6,397	1050	10,050	1500
1,505	180	3,797	630	6,436	1053	10,101	1510
1,560	190	3,833	640	6,501	1060	10,181	1515
1,581	195	3,869	646	6,616	1070	10,258	1520
1,599	200	3,900	650	6,629	1080	10,299	1530
1,660	210	4,004	660	6,701	1090	10,309	1540
1,756	220	4,040	665	6,774	1100	10,389	1550
1,805	230	4,085	670	6,795	1110	10,417	1560
1,820	240	4,113	680	6,895	1120	10,514	1570
1,859	250	4,198	690	6,927	1122	10,608	1580
1,933	260	4,228	700	7,037	1130	10,703	1590
1,976	270	4,276	710	7,135	1140	10,812	1600
2,008	280	4,296	714	7,179	1150	10,972	1610
2,115	290	4,354	720	7,268	1160	11,017	1620
2,160	295	4,413	730	7,288	1170	11,081	1630
2,209	300	4,459	740	7,376	1180	11,139	1640
2,238	310	4,514	750	7,419	1184	11,186	1650
2,304	320	4,586	760	7,500	1190	11,303	1660
2,327	323	4,644	770	7,616	1200	11,536	1670
2,389	330	4,713	780	7,687	1210	11,620	1677
2,417	340	4,808	790	7,765	1220	11,660	1678
2,444	343	4,861	795	7,802	1230	11,695	1680
2,501	350	4,898	800	7,858	1240	11,751	1690
2,514	360	5,004	810	7,893	1250	11,780	1696
2,524	370	5,006	817	7,919	1260	11,818	1700
2,553	380	5,104	820	7,941	1270	11,896	1710
2,577	390	5,219	830	8,017	1280	12,009	1720
2,600	400	5,256	840	8,094	1290	12,103	1730
2,678	410	5,298	850	8,122	1300	12,154	1734
2,705	420	5,332	860	8,197	1310	12,221	1737

Radius	Radien-Nr.	Radius	Radien-Nr.	Radius	Radien-Nr.	Radius	Radien-Nr.
12,271	1740	17,242	2257	23,420	2790	29,532	3330
12,357	1745	17,274	2260	23,511	2800	29,672	3340
12,407	1750	17,497	2270	23,577	2810	29,838	3350
12,503	1760	17,625	2280	23,721	2820	30,031	3360
12,540	1770	17,703	2290	23,822	2830	30,119	3370
12,620	1780	17,828	2300	24,026	2840	30,233	3380
12,660	1790	17,903	2310	24,107	2850	30,329	3390
12,705	1800	18,009	2320	24,232	2860	30,371	3400
12,728	1810	18,246	2330	24,330	2870	30,534	3410
12,775	1820	18,361	2335	24,412	2880	30,633	3420
12,811	1830	18,413	2340	24,619	2890	30,808	3430
12,929	1840	18,553	2350	24,723	2900	30,954	3440
13,040	1850	18,677	2360	24,790	2910	31,022	3450
13,146	1855	18,820	2370	24,915	2920	31,124	3460
13,216	1860	18,924	2376	25,011	2930	31,163	3470
13,293	1870	19,028	2380	25,142	2940	31,274	3480
13,392	1880	19,220	2390	25,256	2950	31,413	3490
13,483	1890	19,258	2400	25,337	2960	31,505	3500
13,576	1900	19,419	2410	25,522	2970	31,556	3510
13,724	1910	19,520	2420	25,563	2980	31,567	3520
13,868	1920	19,560	2430	25,630	2990	31,823	3530
14,009	1930	19,612	2440	25,715	3000	31,954	3540
14,104	1940	19,672	2450	25,801	3010	32,122	3550
14,198	1950	19,759	2460	26,002	3020	32,222	3560
14,284	1960	19,873	2470	26,315	3030	32,327	3570
14,412	1970	20,018	2480	26,527	3040	32,377	3580
14,453	1980	20,099	2490	26,624	3050	32,523	3590
14,553	1990	20,233	2500	26,734	3060	32,630	3600
14,610	2000	20,293	2510	26,820	3070	32,750	3610
14,709	2010	20,419	2520	26,913	3080	32,818	3620
14,808	2020	20,604	2530	26,962	3090	32,920	3630
14,905	2030	20,718	2540	27,029	3100	33,037	3640
15,029	2040	20,823	2550	27,120	3110	33,113	3650
15,104	2050	20,851	2560	27,169	3120	33,272	3660
15,159	2060	21,066	2570	27,229	3130	33,421	3670
15,229	2070	21,106	2580	27,447	3140	33,523	3680
15,305	2080	21,224	2590	27,546	3150	33,618	3690
15,397	2090	21,387	2600	27,616	3160	33,814	3700
15,508	2100	21,516	2610	27,736	3170	33,957	3710
15,545	2110	21,739	2630	27,821	3180	34,013	3720
15,609	2120	21,803	2640	28,040	3190	34,217	3730
15,782	2130	21,917	2650	28,132	3200	34,318	3740
15,910	2140	22,005	2660	28,248	3210	34,478	3750
15,990	2150	22,108	2670	28,319	3220	34,731	3760
16,153	2160	22,214	2680	28,427	3230	34,815	3770
16,295	2170	22,321	2690	28,524	3240	34,921	3780
16,413	2180	22,423	2700	28,622	3250	35,032	3790
16,555	2190	22,522	2710	28,717	3260	35,123	3800
16,619	2200	22,623	2720	28,833	3270	35,219	3810
16,707	2210	22,786	2730	28,926	3280	35,354	3820
16,847	2217	22,874	2740	28,978	3286	35,516	3830
16,917	2220	22,905	2750	29,025	3290	35,618	3840
17,011	2230	23,022	2760	29,119	3300	35,709	3850
17,128	2240	23,138	2770	29,245	3310	35,823	3860
17,140	2250	23,319	2780	29,314	3320	35,901	3870

Radius	Radien-Nr.	Radius	Radien-Nr.	Radius	Radien-Nr.	Radius	Radien-Nr.
36,027	3880	43,429	4430	52,035	4960	61,334	5500
36,144	3890	43,582	4440	52,135	4970	61,548	5510
36,240	3900	43,529	4450	52,280	4980	61,958	5520
36,336	3910	43,729	4460	52,428	4990	62,236	5530
36,435	3920	43,921	4470	52,537	5000	62,463	5540
36,526	3930	44,073	4480	52,654	5010	62,676	5550
36,605	3940	44,281	4490	52,720	5020	62,907	5560
36,716	3950	44,424	4500	52,930	5030	63,108	5570
36,813	3960	44,742	4510	53,031	5040	63,323	5580
36,917	3970	44,845	4520	53,219	5050	63,553	5590
36,991	3980	45,041	4530	53,434	5060	63,830	5600
37,109	3990	45,111	4540	53,629	5070	64,179	5610
37,237	4000	45,233	4550	53,740	5080	64,278	5620
37,417	4010	45,338	4560	53,884	5090	64,524	5630
37,548	4020	45,625	4570	54,039	5100	64,783	5640
37,725	4030	45,716	4580	54,148	5110	65,035	5650
37,925	4040	45,815	4590	54,484	5120	65,323	5660
38,034	4050	45,926	4600	54,601	5130	65,660	5670
38,067	4060	46,097	4610	54,772	5140	65,918	5680
38,112	4070	46,153	4620	54,925	5150	66,085	5690
38,235	4080	46,330	4630	55,107	5160	66,552	5700
38,308	4090	46,517	4640	55,337	5170	66,739	5710
38,504	4100	46,711	4650	55,431	5180	66,983	5720
38,712	4110	46,786	4657	55,508	5190	67,096	5730
38,920	4120	46,839	4660	55,769	5200	67,263	5740
39,028	4130	46,941	4670	56,020	5210	67,467	5750
39,116	4140	47,076	4680	56,249	5220	67,543	5760
39,231	4150	47,199	4690	56,541	5230	67,610	5770
39,338	4160	47,339	4700	56,714	5240	67,722	5780
39,515	4170	47,619	4710	56,848	5250	68,087	5790
39,855	4180	47,797	4720	57,078	5260	68,369	5800
39,913	4190	47,985	4728	57,246	5270	68,581	5810
39,999	4200	48,038	4730	57,348	5280	69,042	5820
40,155	4210	48,348	4740	57,458	5290	69,276	5830
40,325	4220	48,414	4750	57,531	5300	69,523	5840
40,471	4230	48,519	4760	57,599	5305	69,862	5850
40,533	4240	48,737	4770	57,864	5310	70,134	5860
40,628	4250	48,857	4780	58,110	5320	70,228	5870
40,891	4260	49,065	4790	58,301	5330	70,432	5880
40,932	4270	49,145	4800	58,539	5340	70,599	5890
41,013	4280	49,226	4810	58,710	5350	70,735	5900
41,129	4290	49,344	4820	59,048	5360	71,110	5910
41,320	4300	49,560	4830	59,161	5370	71,167	5920
41,438	4310	49,736	4840	59,472	5380	71,579	5930
41,532	4320	49,877	4850	59,808	5390	71,725	5940
41,726	4330	50,036	4860	59,929	5400	72,060	5950
42,048	4340	50,223	4870	60,029	5410	72,150	5960
42,223	4350	50,493	4880	60,165	5420	72,319	5970
42,322	4360	50,611	4890	60,335	5430	72,506	5980
42,522	4370	50,960	4900	60,645	5440	72,758	5990
42,750	4380	51,221	4910	60,756	5450	72,833	6000
42,787	4390	51,394	4920	60,835	5460	72,980	6010
42,917	4400	51,530	4930	60,921	5470	73,099	6020
43,043	4410	51,724	4940	61,075	5480	73,133	6030
43,234	4420	51,923	4950	61,239	5490	73,289	6040

Radius	Radien-Nr.	Radius	Radien-Nr.	Radius	Radien-Nr.	Radius	Radien-Nr.
73,420	6050	88,081	6600	107,397	7150	126,364	7680
73,581	6060	88,228	6610	107,666	7160	126,666	7690
73,770	6070	88,562	6620	108,104	7270	126,873	7700
74,063	6080	88,759	6630	108,181	7180	127,099	7710
74,532	6090	89,144	6640	109,144	7190	127,358	7720
74,728	6100	89,493	6650	109,512	7200	127,451	7730
74,941	6110	90,065	6660	109,771	7210	127,656	7740
75,062	6120	90,277	6670	110,269	7220	127,822	7750
75,184	6130	90,674	6680	110,517	7230	128,233	7760
75,467	6140	91,052	6690	110,912	7236	128,878	7770
75,640	6150	91,145	6700	111,134	7240	129,570	7780
75,855	6160	91,437	6710	111,395	7250	130,088	7790
76,155	6170	91,649	6720	112,139	7260	130,491	7800
76,453	6180	91,829	6730	112,670	7270	130,568	7810
76,568	6190	92,414	6740	112,888	7280	130,903	7820
76,759	6200	92,610	6750	113,148	7290	131,540	7830
77,055	6210	93,055	6760	113,629	7300	132,090	7840
77,268	6220	93,633	6770	114,107	7310	133,313	7850
77,608	6230	94,111	6780	114,524	7320	133,471	7860
78,037	6240	94,367	6790	115,174	7330	134,196	7870
78,287	6250	94,563	6800	115,193	7340	134,551	7880
78,533	6260	95,078	6810	115,681	7350	135,428	7890
78,940	6270	95,295	6820	116,116	7360	135,831	7900
79,127	6280	95,686	6830	116,155	7370	135,939	7910
79,555	6290	95,747	6840	116,364	7380	136,375	7930
79,617	6300	96,148	6850	116,548	7390	136,624	7940
79,835	6310	96,335	6860	117,163	7400	137,128	7950
79,941	6320	96,622	6870	117,444	7410	137,688	7960
80,080	6330	96,773	6880	117,572	7420	138,099	7970
50,165	6340	96,890	6890	117,762	7430	138,833	7980
80,560	6350	97,107	6900	118,163	7440	139,233	7990
80,788	6360	97,275	6910	118,401	7450	139,687	8000
81,144	6370	97,579	6920	119,093	7460	140,234	8010
81,574	6380	97,917	6930	119,616	7470	140,588	8020
81,985	6390	98,211	6940	120,008	7480	141,489	8030
82,292	6400	98,795	6950	120,290	7490	142,087	8040
82,676	6410	99,100	6960	120,551	7500	142,158	8050
83,089	6420	99,581	6970	120,670	7510	143,241	8060
83,511	6430	99,898	6980	120,975	7520	144,757	8070
84,098	6440	100,116	6990	121,188	7530	145,216	8080
84,129	6450	101,099	7000	121,590	7540	145,913	8090
84,582	6460	101,331	7010	121,845	7550	146,040	8100
84,819	6470	102,076	7020	122,091	7560	146,707	8110
85,035	6480	102,408	7030	122,286	7570	147,102	8120
85,439	6490	102,569	7040	122,755	7580	147,630	8130
85,658	6500	103,131	7050	123,139	7590	148,112	8140
85,962	6510	103,561	7060	123,216	7600	148,305	8150
86,044	6520	104,163	7070	123,460	7610	148,878	8160
86,122	6530	104,550	7080	123,559	7620	148,980	8170
86,307	6540	105,074	7090	123,662	7630	149,380	8180
86,557	6550	105,379	7100	123,944	7640	149,732	8186
87,075	6560	106,180	7110	123,971	7650	149,854	8190
87,338	6570	106,391	7120	124,255	7660	150,162	8200
87,513	6580	107,157	7130	125,072	7670	150,636	8210
87,741	6590	107,298	7140	125,504	7674	151,027	8220

Radius	Radien-Nr.	Radius	Radien-Nr.	Radius	Radien-Nr.	Radius	Radien-Nr.
151,725	8230	181,459	8770	216,720	9310	265,520	9830
152,255	8240	182,027	8780	217,240	9320	266,680	9840
153,349	8250	182,479	8790	217,650	9330	267,460	9850
153,638	8260	182,966	8800	218,280	9340	270,150	9860
154,059	8270	184,123	8810	218,850	9350	273,350	9870
154,611	8280	185,130	8820	219,350	9360	275,210	9880
154,986	8290	185,839	8830	219,890	9370	275,570	9890
155,641	8300	186,444	8840	220,270	9380	276,670	9900
156,022	8310	187,391	8850	220,880	9390	278,200	9910
156,512	8320	187,996	8860	221,100	9400	278,380	9920
156,800	8324	188,133	8870	221,520	9410	280,230	9930
157,226	8330	188,802	8880	222,110	9417	281,730	9940
157,748	8340	189,063	8890	222,380	9420	283,750	9950
157,951	8350	189,416	8900	222,750	9430	285,220	9960
158,070	8360	190,195	8910	223,180	9440	285,490	9970
158,629	8370	191,094	8920	223,820	9450	286,520	9980
160,152	8380	191,520	8930	223,940	9460	287,930	9990
160,464	8390	192,155	8940	225,200	9470	289,850	10000
160,930	8400	192,650	8950	226,970	9480	290,890	10010
162,601	8410	193,578	8960	227,420	9488	291,360	10020
163,012	8420	194,228	8970	227,780	9490	293,590	10030
163,190	8430	194,663	8980	229,220	9500	295,600	10040
163,739	8440	195,668	8990	230,570	9510	298,480	10050
164,180	8450	196,184	9000	233,030	9520	300,190	10060
165,151	8460	196,579	9010	233,300	9530	300,940	10070
165,758	8470	197,595	9020	233,790	9540	301,360	10080
166,245	8480	197,752	9030	234,150	9550	302,610	10090
166,783	8490	198,362	9040	234,950	9560	305,360	10100
167,130	8500	198,897	9050	236,110	9570	306,950	10110
167,685	8510	199,673	9060	236,990	9580	310,440	10120
168,135	8520	200,140	9070	237,650	9590	312,230	10130
168,712	8530	200,640	9080	239,060	9600	314,120	10140
169,189	8540	201,210	9090	239,270	9610	314,660	10150
169,864	8550	201,680	9100	239,980	9620	317,110	10160
170,327	8560	202,450	9110	241,350	9630	318,470	10170
170,665	8570	203,580	9120	242,260	9640	318,660	1080
171,161	8580	204,660	9130	243,130	9650	321,720	10190
172,487	8590	205,170	9140	244,470	9660	323,110	10200
172,752	8600	205,620	9150	245,060	9670	324,080	10210
173,274	8610	206,150	9160	247,600	9680	325,890	10220
173,627	8620	206,370	9170	248,420	9690	328,000	10230
173,996	8630	207,090	9180	249,390	9700	329,100	10240
175,083	8640	207,890	9190	250,170	9710	329,890	10250
175,758	8650	208,990	9200	253,550	9720	331,500	10260
176,189	8660	209,660	9210	254,370	9730	331,850	10270
176,861	8670	210,050	9220	255,280	9740	332,790	10280
177,118	8680	211,120	9230	255,830	9750	333,690	10290
177,191	8690	212,150	9240	256,820	9753	334,390	10300
177,364	8700	212,760	9250	257,720	9760	335,200	10310
177,958	8710	213,330	9260	259,480	9770	335,380	10320
178,696	8720	214,160	9270	260,280	9780	337,410	10330
179,105	8730	214,610	9280	261,380	9790	339,310	10340
179,710	8740	215,050	9290	262,820	9800	341,600	10350
180,258	8750	215,450	9293	263,650	9810	342,750	10360
181,255	8760	216,130	9300	264,010	9820	345,100	10370

Radius	Radien-Nr.	Radius	Radien-Nr.	Radius	Radien-Nr.	Radius	Radien-Nr.
347,160	10380	489,000	10930	764,620	11490	1214,200	12060
350,600	10390	494,860	10940	769,510	11500	1224,500	12070
353,510	10400	500,120	10950	772,420	11510	1241,300	12080
355,700	10410	501,830	10960	776,700	11520	1261,000	12090
359,290	10420	505,970	10970	785,600	11530	1280,200	12100
364,200	10430	511,290	10980	790,360	11540	1296,600	12110
364,710	1044	513,000	10990	793,960	11550	1299,000	12120
366,580	10450	515,810	11000	799,620	11560	1305,500	12130
369,880	10460	517,490	11010	805,000	11570	1329,800	12140
370,700	10470	520,110	11020	806,770	11580	1339,000	12150
374,160	10480	523,800	11030	807,590	11590	1361,000	12160
375,380	10490	525,330	11040	813,680	11600	1376,000	12170
376,300	10500	527,900	11050	818,880	11610	1391,200	12180
379,180	10510	532,710	11060	825,820	11620	1402,100	12190
383,690	10520	535,070	11070	831,800	11630	1432,900	12200
386,070	10530	539,100	11080	839,490	11640	1460,000	12210
389,100	10540	540,980	11090	844,910	11650	1474,500	12220
389,900	10550	545,720	11100	850,070	11660	1501,000	12230
392,990	10560	549,010	11110	853,010	11670	1512,000	12240
396,010	10570	550,280	11120	863,140	11680	1521,000	12250
398,640	10580	553,620	11130	869,300	11690	1553,600	12260
400,000	10590	557,230	11140	879,100	11710	1571,400	12270
401,000	10600	560,000	11150	888,910	11720	1582,000	12280
402,400	10610	570,850	11160	896,420	11730	1607,200	12290
404,800	10620	573,500	11170	902,660	11750	1622,500	12300
408,110	10630	577,190	11180	912,780	11760	1642,300	12310
411,100	10640	579,680	11200	915,780	11770	1659,900	12320
413,890	10650	579,990	11210	921,590	11780	1670,300	12330
415,960	10660	585,280	11220	929,440	11790	1684,900	12340
417,550	10670	593,340	11230	931,710	11800	1709,900	12350
419,550	10680	597,680	11240	936,160	11810	1735,000	12360
422,000	10690	601,180	11250	946,020	11820	1780,200	12370
425,430	10700	610,980	11260	960,730	11830	1811,400	12380
426,290	10710	618,840	11270	969,120	11840	1840,000	12390
428,270	10720	621,880	11280	983,810	11850	1851,500	12400
430,700	10730	630,970	11290	987,510	11860	1865,000	12410
433,200	10740	643,710	11300	991,520	11870	1869,000	12420
434,190	10750	647,080	11310	1002,100	11880	1889,300	12430
435,530	10760	655,140	11320	1006,100	11890	1923,200	12440
436,190	10770	656,240	11330	1012,000	11900	1957,900	12450
439,600	10780	659,400	11340	1016,900	11910	1978,400	12460
442,610	10790	665,320	11350	1032,100	11920	1999,100	12470
445,610	10800	678,060	11360	1047,800	11930	2035,800	12480
449,370	10810	684,030	11370	1051,100	11940	2110,000	12490
450,010	10820	691,480	11380	1062,100	11950	2125,000	12500
452,780	10830	694,790	11390	1066,000	11960	2136,200	12505
457,350	10840	703,900	11400	1095,000	11970	2148,100	12510
463,210	10850	709,370	11410	1112,000	11980	2163,100	12520
468,460	10860	717,580	11420	1125,000	11990	2210,100	12530
470,410	10880	719,660	11430	1139,800	12000	2248,200	12540
473,310	10890	727,130	11440	1150,000	12010	2291,500	12550
476,900	10900	732,900	11450	1158,100	12020	2329,600	12560
477,920	10902	744,180	11460	1175,800	12030	2393,500	12570
481,220	10910	750,270	11470	1194,900	12040	2449,300	12580
485,980	10920	753,970	11480	1210,200	12050	2507,900	12590

verbindlich ab : 01.03.1989

<b>Radius</b>	<b>Radien-Nr.</b>	<b>Radius</b>	<b>Radien-Nr.</b>	<b>Radius</b>	<b>Radien-Nr.</b>	<b>Radius</b>	<b>Radien-Nr.</b>
2550,400	12600	3867,000	12820	6007,000	13020	11996,000	13200
2576,400	12610	3913,000	12830	6167,000	13030	12828,000	13210
2592,600	12620	3977,000	12840	6281,000	13035	15588,000	13220
2625,500	12630	3990,000	12850	6386,000	13040	15150,000	13230
2656,400	12640	4053,000	12860	6551,000	13043	16608,000	13240
2751,100	12650	4151,000	12870	6661,000	13046	17013,000	13250
2828,700	12660	4171,000	12880	6786,000	13048	18494,000	13260
2895,000	12670	4187,000	12890	7009,000	13050	19302,000	13270
3002,000	12680	4249,000	12900	7169,000	13060	21648,000	13275
3042,000	12690	4302,000	12910	7245,000	13070	21987,000	13277
3057,000	12700	4395,000	12920	7275,000	13080	23650,000	13280
3141,000	12710	4476,000	12930	7490,000	10390	26730,000	13290
3192,000	12720	4564,000	12940	7987,000	13100	33106,000	13300
3211,000	12730	4676,000	12950	8491,000	13110	51305,000	13310
3270,000	12740	4784,000	12960	8624,000	13113	58143,000	13320
3331,000	12750	4966,000	12970	9007,000	13120	70290,000	13323
3416,000	12760	5277,000	12980	9180,000	13130	80115,000	13326
3430,000	12770	5404,000	12990	9442,000	13140	102470,000	13330
3500,000	12780	5524,000	13000	9713,000	13150	145720,000	13331
3610,000	12790	5566,000	13010	9942,000	13160	208350,000	13333
3686,000	12800	5693,000	13013	11358,000	13170	359800,000	13340
3744,000	12810	5871,000	13016	11450,000	13180	535000,000	13350