

Computer Optics Inc. - Lens Testplate Catalog

www.computeroptics.com (603) 889 2116

RADIUS (IN.)	RADIUS (MM.)	DIAMETER (IN)	TYPE	CODE
0.1211	3.08	0.02	SET	958
0.1581	4.02	HEMI.	SET	245
0.1600	4.06400	0.29	SET	640
0.1680	4.26720	0.5	SET	190
0.1925	4.88950	0.36	SET	951
0.2189	5.56	0.25	SET	676
0.2308	5.86	0.44	SET	7
0.2322	5.9	0.5	SET	189
0.2350	5.96900	0.4	SET	624
0.2373	6.03	HEMI	SET	291
0.2542	6.46	0.50	SET	246
0.2575	6.54050	0.50	SET	425
0.2770	7.03580	0.54	SET	866
0.2741	6.96	HEMI	SET	586
0.2750	6.98500	0.48	SET	901
0.2789	7.08	0.1	SET	188
0.2790	7.09	0.5	SET	
0.2795	7.09930	0.5	SET	
0.2841	7.22	0.5	SET	306
0.2942	7.47270	0.5	SET	902
0.3085	7.83590	0.5	SET	187
0.3093	7.86	0.5	SET	75

0.311.42	7.910	0.5	SET	194
0.3149	8	HEMI	SET	585
0.3328	8.45	0.5	SET	186
0.3371			SET	861
0.3400	8.63600	0.5	SET	510
0.3513	8.92	HEMI	SET	292
0.3621	9.2	0.5	SET	307
0.3627	9.21	0.5	SET	
0.3649	9.27	0.5	SET	625
0.3771	9.58	0.5	SET	861
0.3787	9.62	HEMI	SET	509
0.3860	9.80440	0.5	SET	309
0.3917	9.95	0.5	SET	192
0.3933	9.99	0.5	2 SETS	420
0.3935	9.99	0.75	SET	420
0.4000	10.16000	0.8	SET	185
0.4079	10.360	0.75	SET	957
0.4147	10.53	0.50	SET	421
0.4256	10.8102	0.75	SET	879
0.4311	10.95	0.50	SET	547
0.4352	11.05400	0.50	SET	857
0.4363	11.08	0.50	SET	299
0.4382	11.13	0.75	SET	761
0.4390	11.15060	0.30	SET	587
0.4455	11.31570	HEMI	SET	294

0.4595	11.67130	0.5	SET	179
0.4678	11.88	0.75	SET	933
0.470	11.94	0.75	SET	
0.4725	12.00150	0.8	SET	74
0.4730	12.01	0.5	SET	
0.4757	12.08	1.00	SET	180
0.4853	12.33	1.00	SET	320
0.4972	12.63	0.50	SET	407
0.5008	12.72	HEMI	SET	293
0.5191	13.19	0.75	SET	
0.5243	13.32	0.50	SET	409
0.5269	13.38	1.00	SET	767
0.5334	13.55	1.00	SET	177
0.5350	13.58900	1.10	SET	65
0.5370	13.63980	0.75	SET	524
0.5429	13.79	1.00	SET	397
0.5442	13.82	0.75	SET	311
0.5548	14.09	1.00	SET	400
0.5588	14.19	1.10	SET	178
0.5688	14.45	0.75	SET	286
0.5731	14.56	1.00	SET	323
0.5746	14.59	1.00	SET	580
0.5767	14.65	1.00	SET	93
0.5812	14.76	0.75	SET	856
0.5908	15.01	0.75	SET	563

0.5983	15.2	1.00	SET	603
0.6078	15.44	1.00	SET	678
0.6131	15.57	1.00	SET	956
0.6147	15.61	1.00	SET	954
0.6204	15.76	1.00	SET	
0.6253	15.88	1.00	SET	149
0.6380	16.20520	1.20	SET	181
0.6423	16.31	1.00	SET	287
0.6463	16.42	1.00	SET	955
0.6514	16.54460	1.00	SET	880
0.6601	16.77	1.00	SET	262
0.6632	16.85	0.75	SET	193
0.6764	17.18	1.00	SET	602
0.671				
0.6819	17.32	0.80	SET	78
0.6960	17.67840	1.00	SET	632
0.6992	17.76	1.00	SET	458
0.7000	17.78000	1.00	SET	338
0.7110	18.05940	1.35	SET	932
0.7202	18.29	1.25	SET	
0.7213	18.32	1.25	SET	
0.7282	18.49	1.25	SET	
0.7310	18.56740	1.00	SET	889
0.7340	18.64	1.00	SET	91
0.7328	18.75	1.25	SET	

0.7389	18.77	1.00	SET	92
0.7430	18.87220	1.00	SET	588
0.7487	19.02	1.00	SET	324
0.7540	19.15	1.00	SET	390
0.7611	19.33	1.00	SET	415
0.7625	19.36750	1.50	SET	183
0.7705	19.57070	1.00	SET	155
0.7791	19.79	1.00	SET	265
0.7885	20.02790	1.00	SET	339
0.7977	20.26	1.00	SET	362
0.8078	20.52	1.25	SET	24
0.8079	20.52	1.00	SET	391
0.81	20.59940	1.00	SET	XXXX
0.8179	20.77	1.00	SET	590
0.8302	21.09	1.00	SET	542
0.8402	21.39	1.50	SET	950
0.8482	21.54	1.00	SET	589
0.8540	21.69	1.00	SET	
0.8543	21.7	1.25	SET	568
0.8554	21.73	1.25	SET	184
0.8570	21.76780	1.00	SET	553
0.8753	22.23	1.00	SET	303
0.8798	22.35	1.50	SET	937
0.8798	22.35	1.50	SET	279
0.8890	22.580	1.25	SET	

0.8952	22.74	1.50	SET	182
0.9047	22.98	1.13	SET	766
0.9066	23.03	1.00	SET	94
0.9110	23.13940	1.00	SET	824
0.9136	23.21	1.00	SET	310
0.9201	23.370	1.50	SET	
0.9301	23.62	1.00	SET	396
0.9345	23.73630	1.00	SET	244
0.9495	24.12	1.00	SET	550
0.9596	24.37	1.50	SET	582
0.9615	24.42	1.50	SET	
0.9659	24.53	1.25	SET	285
0.9703	24.65	1.25	SET	886
0.9722	24.69	1.00	SET	386
0.9724	24.7	1.00	SET	395
0.9834	24.98	1.00	SET	541
0.9963	25.31	1.00	SET	304
0.9992	25.38	1.00	SET	73
1.0063	25.56	1.00	SET	433
1.0167	25.82	1.50	SET	358
1.0195	25.89530	1.50	SET	681
1.0273	26.09	1.50	SET	385
1.0333	26.25	1.54	SET	171
1.0334	26.25	2.00	SET	216
1.0547	26.56	1.50	SET	934

1.0600	26.92400	1.00	SET	238
1.0658				971
1.0702	27.18	1.50	SET	359
1.0721	27.23	1.00	SET	208
1.0807	27.45	1.50	SET	300
1.0939	27.79	1.50	SET	537
1.1048	28.06	1.00	SET	283
1.1048	28.06	1.50	SET	363
1.1093	28.18	0.75	SET	298
1.1180	28.4	1.50	SET	284
1.1119	28.24	1.75	SET	757
1.1155	28.33370	1.50	SET	764
1.1343	28.81	2.00	SET	611
1.1360	28.85440	1.75	SET	677
1.1395	28.94	2.00	SET	825
1.1534	29.3	1.75	SET	142
1.1637	29.56	0.75	SET	855
1.1761	29.87	1.50	SET	435
1.1824	30.03	1.50	SET	583
1.1855	30.11170	1.75	SET	575
1.1880	30.17520	1.50	SET	69
1.1955	30.36570	1.50	SET	152
1.2011	30.51	2.00	SET	2
1.2011				961
1.2062	30.64	1.50	SET	191

1.2160	30.88640	1.00	SET	308
1.2250	31.11500	1.75	SET	174
1.2256	31.13	2.00	SET	217
1.2308	31.26	2.25		960
1.2452	31.63	1.50	SET	434
1.2622				967
1.2717	32.3	1.50	SET	140
1.2736	32.35	1.00	SET	812
1.2895	32.75330	1.75	SET	536
1.3059	33.17	1.50	SET	162
1.3176	33.47	2.00	SET	772
1.3220	33.58	2.00	SET	
1.3308	33.8	2.00	SET	77
1.3402	34.04	2 INCH	SET	764
1.3430	34.11220	1.00	SET	DELCO
1.3487	34.26	2.00	SET	963
1.3534	34.38	1.50	SET	70
1.3665	34.71	2.00	SET	164
1.3667	34.71	1.50	SET	66
1.3689	34.77	2.00	SET	666
1.3717	34.84	2.00	SET	579
1.3762	34.96	2.00	SET	909
1.3843	35.16	2.00	SET	756
1.3967	35.48	1.00	SET	863
1.4023	35.610	2.00	SET	

1.4070	35.74	2.00	SET	
1.4182	36.02	1.75	SET	519
1.4240	36.16960	2.00	SET	907
1.4262	36.23	1.50	SET	173
1.4274	36.26	2.00	SET	687
1.4299	36.32	1.50	SET	197
1.4358	36.47	2.50	SET	943
1.4378	36.52	1.50	SET	168
1.4390	36.55060	2.00	SET	172
1.4471	36.76	1.50	SET	169
1.4527	36.9	2.00	SET	612
1.4591	37.06	2.00	SET	794
1.4630	37.16020	2.00	SET	614
1.4720		50.40 (MM)		
1.4754	37.48	2.00	SET	876
1.4835	37.68090	1.00	SET	226
1.4944	37.96	1.50	SET	430
1.4962	38	1.00	SET	241
1.4962	38	2.00	SET	241
1.5000	38.10000	2.00	SET	565
1.5155				969
1.5250	38.73500	1.50	SET	364
1.5340	38.96360	2 1/8	SET	142
1.5362	39.01940	2.00	SET	858
1.5363	39.02	2.00	SET	922

1.5423	39.17	1.50	SET	170
1.5594	39.17	1.50	SET	72
1.5642	39.73	1.50	SET	277
1.5762	40.04	1.50	SET	613
1.5792	40.11	1.50	SET	779
1.5811	40.16	1.50	SET	544
1.5845				968
1.5875	40.32250	2.00	SET	906
1.5907	40.4	2.00	SET	404
1.5929	40.46	2.50	SET	433
1.6013	40.67300	2.00	SET	921
1.0643	40.75	2.00	SET	953
1.6063	40.8	2.00	SET	142
1.6144	41.01	2.50	SET	540
1.6243	41.26	2.00	SET	877
1.2620	41.31	1.50	SET	874
1.6285	41.36390	1.00	SET	209
1.6420	41.70680	2.00	SET	14
1.6504	41.92	1.50	SET	626
1.6719	4.47	2.00	SET	402
1.6729	42.29	1.00	SET	616
1.6807	42.69	2.00	SET	668
1.6956	43.07	1.50	SET	144
1.6995	43.16730	2.50	SET	528
1.7139	43.53	2.00	SET	62

1.7150	43.56100	2.00	SET	774
1.7227	43.76	1.50	SET	429
1.7397	44.19	2.00	SET	237
1.7507	44.47	2.00	SET	67
1.7518	44.49570	2.00	SET	796
1.7622	44.76	2.00	SET	403
1.7668	44.88	2.00	SET	775
1.7696	44.95	1.50	SET	884
1.7791	45.19	2.00	SET	289
1.7880	45.42	2.00	SET	
1.7824	45.27	3.00	SET	115
1.7928	45.54	2.00	SET	399
1.8027	45.79	1.00	CONCAVE	166
1.8045	45.83	2.50	SET	
1.8150	46.10100	1.50	SET	539
1.8274	46.42	2.00	SET	417
1.8320	46.53280	2.50	SET	116
1.8346	46.6	1.50	SET	63
1.8365	45.64710	2.00	SET	882
1.8426	46.8	2.00	SET	71
1.8515	47.02810	2.50	SET	846
1.8525	47.05350	2.00	SET	562
1.8572	47.17	2.00	SET	302
1.8700	47.49800	1.50	SET	278
1.8757	47.64270	3.00	SET	892

1.8815	47.79010	2.00	SET	210
1.8868	47.92	2.00	SET	68
1.9006	48.28	2.00	SET	76
1.9034	48.35	2.00	SET	398
1.9129	48.59	3.00	SET	962
1.9276	48.96	2.50	SET	561
1.9443	49.39	2.00	SET	21
1.9536	49.62	2.00	SET	146
1.9592	49.76360	2.00	SET	916
1.9653	49.92	2.00	SET	29
1.9677	49.98	1.63	SET	938
1.9686	50	3.00	SET	894
1.9786	50.26	1.50	SET	163
1.9947	50.67	2.00	SET	615
1.9977	50.22			
2.0023	50.86	2.00	SET	383
2.0236	51.4	2.00	SET	290
2.0273	51.49	2.00	SET	211
2.0494	52.05	2.00	SET	288
2.0807	52.85	2.00	SET	199
2.1053	53.47	2.00	SET	862
2.1061	53.49	2.00	SET	634
2.1172	53.78	3.00	SET	527
2.1200	53.84800	3.00	SET	11
2.1516	54.65	2.00	SET	345

2.1659	55.01	2.00	SET	617
2.1693	55.10020	2.00	SET	920
2.1976	55.82	2.00	SET	408
2.2283	56.6	3.00	SET	111
2.2318	56.69	2.50	SET	628
2.2373	56.83	3.00	SET	83
2.2410	56.92	3.00	SET	
2.2457	57.04	2.00	SET	365
2.2494	57.13	3.00	SET	741
2.2512	57.18	2.00	SET	929
2.2515	57.18810	2.25	SET	831
2.2602	57.41	3.00	SET	848
2.2791	57.89	2.00	SET	770
2.2904	58.18	2.00	SET	476
2.3017	58.46	3.00	SET	655
2.3083	58.63	2.50	SET	340
2.3153	58.81	2.00	SET	366
2.3181	58.88	3.00	SET	941
2.3198	58.92	2.50	SET	332
2.3228	59	2.50	SET	620
2.3396	59.43	2.00	SET	382
2.3422	59.49	2.00	SET	763
2.3577	59.89	2.00	SET	526
2.3650	60.07100	2.00	SET	160
2.3752	60.33	2.00	SET	653

2.3770	60.37580	2.50	SET	629
2.3900	60.70600	2.00	SET	619
2.3935	60.79490	2.00	SET	200
2.4206	61.48	3.00	SET	153
2.4380	61.92520	2.00	SET	145
2.4504	62.24	2.00	SET	258
2.4634	62.57	2.00	SET	419
2.4797	62.98	2.50	SET	581
2.4901	63.25	3.50	SET	690
2.5155	63.89	2.00	SET	959
2.5255	64.14770	2.00	SET	167
2.5385	64.47790	3.00	SET	841
2.5531	64.85	3.00	SET	205
2.5571	64.95	3.00	SET	595
2.5728	65.35	1.50	SET	176
2.5970	65.96380	1.00	SET	622
2.6066	66.21	3.00	SET	621
2.610	66.29	3.00	SET	
2.6313	66.84	3.00	SET	203
2.6570	67.48780	3.00	SET	109
2.6612	67.59	3.50	SET	556
2.6644	67.68	2.00	SET	860
2.6702	67.82	2.00	SET	414
2.6767	67.99	2.00	SET	
2.7068	68.75	2.00	SET	198

2.7219	69.14	2.00	SET	928
2.7278	69.29	3.00	SET	467
2.7525	69.91	2.00	SET	54
2.7720	70.40880	2.00	CONVEX	623
2.7773	70.54	3.00	SET	392
2.7837	70.71	1.00	SET	154
2.8073	71.31	2.00	SET	368
2.8137	71.47	2.50	SET	316
2.8190	71.60260	3.00	SET	108
2.8353	72.02	3.00	SET	633
2.8388	72.11	3.00	SET	647
2.8452	72.27	3.00	SET	521
2.8520	72.44080	2.00	SET	204
2.8723	72.95640	2.00	SET	817
2.8816	73.19	2.00	SET	566
2.9127	73.98250	3.25	SET	847
2.9069	73.84	1.50	SET	159
2.9143	74.02	4.00	SET	618
2.9177	74.11	2.00	SET	356
2.9178	74.11	2.00	SET	346
2.9310	74.45	4.00	SET	834
2.9348	74.54	1.50	SET	242
2.9766	75.61	2.00	SET	317
2.9823	75.75	1.50	SET	158
3.0030	76.27620	2.00	SET	685

3.0112	76.48	3.00	SET	600
3.0194	76.69	3.00	SET	546
3.0234	76.79	2 1/8	SET	904
3.0242	76.81	3.00	SET	898
3.0390	77.19060	3.00	SET	465
3.0582	77.68	2.75	SET	87
3.0706	77.99	3.00	SET	206
3.0825	78.3	3.00	SET	543
3.0980	78.68920	2.00	SET	905
3.1169	79.17	4.00	SET	669
3.1228	79.32	2.00	SET	337
3.1406	79.77	3.00	SET	745
3.1435	79.84490	2.00	SET	165
3.1601	80.26650	2.50	SET	912
3.1750	80.64500	2.00	SET	821
3.1860	80.92440	2.00	SET	919
3.2065	81.44510	3.00	SET	535
3.2219	81.84	3.00	SET	350
3.2278	81.99	3.00	SET	743
3.2713	83.09	3.00	SET	384
3.2893	83.55330	3.00	SET	815
3.2864	83.47	1.50	SET	64
3.3011	83.85	4.00	SET	830
3.3070	83.99780	3.00	SET	12
3.3269	84.5	3.00	SET	673

3.3416	84.88	2.50	SET	773
3.3714	85.63	2.50	SET	114
3.4020	86.41080	2.00	SET	13
3.4273	87.05	2.00	SET	218
3.4503	87.64	3.00	SET	662
3.4605	87.9	3.00	SET	851
3.4667	88.05	2.50	SET	569
3.4906	88.66	2.50	SET	143
3.5036	88.99	2.50	SET	564
3.5214	89.44	3.00	SET	393
3.5226	89.47	4.00	SET	376
3.5236	89.5	3.50	SET	381
3.5261	89.56290	2.00	SET	918
3.5445	90.030	3.00	SET	161
3.5640	90.52560	4.00	SET	663
3.5830	91.00820	3.00	SET	4
3.5870	91.10980	3.00	SET	630
3.6361	92.35690	3.00	SET	804
3.6481	92.66	2.00	SET	156
3.6669	93.14	3.50	SET	107
3.7075	94.17050	2.50	SET	910
3.7171	94.41	2.50	SET	672
3.7306	94.76	3.00	SET	85
3.7416	95.04	3.00	SET	652
3.7466	95.16	3.00	SET	627

3.7471	95.18	3.00	SET	534
3.7658	95.65	2.00	SET	321
3.7773	95.94	3.75	SET	118
3.7950	96.39300	3.00	SET	744
3.8051	96.65	3.00	SET	777
3.8340	97.38360	2.00	SET	661
3.8412	97.57	3.00	SET	648
3.8482	97.74	2.40	SET	147
3.8598	98.04	3.00	SET	903
3.8752	98.43	3.00	SET	418
3.8877	98.75	3.00	SET	212
3.8922	98.86	3.00	SET	26
3.9167	99.48	5.00	SET	838
3.9330	99.89820	3.1	SET	86
3.9462	100.23350	4.00	2 SETS	349
3.9590	100.55860	3.00	SET	3
3.9663	100.74400	3.00	SET	412
3.9685	100.8	3.00	SET	853
3.9762	100.99550	3.00	SET	739
3.9872	101.27488	5.00	SET	835
3.9935	101.43490	3.00	SET	22
4.0307	102.47980	3.50	SET	545
4.0460	102.77	3.00	SET	944
4.0741	103.48210	2.50	SET	214
4.0928	103.95710	4.00	SET	851

4.0997	104.13230	4.00	SET	484
4.1332	104.98320	3.00	SET	394
4.1397	105.14830	3.00	SET	819
4.1475	105.34650	3.00	SET	223
4.1809	106.19480	4.00	SET	522
4.1861	106.33	2.50	SET	911
4.2135	107.02290	2.50	SET	148
4.2250	107.31500	4.50	SET	32
4.2385	107.65790	4.00	SET	477
4.2529	108.02366			265
4.2626	108.27000	2.50	SET	578
4.2734	108.54440	4.00	SET	492
4.2758	108.60530	3.00	SET	367
4.2928	109.03710	2.50	SET	141
4.3001	109.22250	4.00	SET	802
4.3243	109.83720	4.00	SET	646
4.3412	110.26640	4.00	SET	112
4.3543	110.59920	3.00	SET	331
4.3572	110.67280	4.00	SET	97
4.3590	110.71860	2.25	SET	512
4.3726	111.06400	2.50	SET	577
4.3930	111.58220	3.00	SET	778
4.4080	111.96320	5.00	SET	567
4.4153	112.14862	4.00	SET	560
4.4222	112.32388	2.00	SET	594

4.4339	112.62106	2.50	SET	127
4.4421	112.82930	3.25	SET	845
4.4688	113.50750	1.98	SET	268
4.4905	114.05870	5.00	SET	474
4.5053	114.43420	2.00	SET	243
4.5203	114.81560	3.00	SET	654
4.5694	116.06270	2.00	SET	869
4.5893	116.56820	3.00	SET	651
4.6033	116.92380	4.00	SET	452
4.6229	117.42160	2.00	SET	688
4.6295	117.58930	3.00	SET	674
4.6472	118.03880	4.00	SET	548
4.6739	118.71700	2.00	SET	175
4.6852	119.00400	5.00	SET	525
4.7224	119.94890	5.00	SET	51
4.7280	120.09120	3.00	SET	236
4.7607	120.92170	2.00	SET	606
4.7720	121.20880	4.50	SET	37
4.7791	121.38910	4.00	SET	424
4.7927	121.73450	2.00	SET	875
4.8040	122.02160	3.50	SET	829
4.8161	122.32890	2.50	SET	911
4.8265	122.59310	2.75	SET	90
4.8389	122.90800	4.00	SET	411
4.8597	123.43630	3.00	SET	275

4.8755	123.83770	3.00	SET	740
4.8916	124.24660	4.00	SET	538
4.9003	124.46760	3.00	SET	201
4.9241	125.07210	3.00	SET	301
4.9514	125.76550	4.00	SET	670
4.9600	125.98400	2.00	SET	9
4.9686	126.2	5.25	SET	33
4.9755	126.37770	4.00	SET	422
4.9830	126.56820	5.00	SET	828
4.9962	126.90340	3.00	SET	84
5.0318	127.80770	2.50	SET	106
5.0424	128.07690	4.00	SET	103
5.0591	128.50110	3.00	SET	276
5.0679	128.72460	4.00	SET	895
5.0803	129.03960	4.00	SET	643
5.0993	129.52222	2.00	SET	949
5.1246	130.16480	3.00	SET	207
5.1340	130.40360	3.00	SET	940
5.1685	131.27990	4.00	SET	693
5.1923	131.88440	4.50	SET	119
5.2023	132.13840	4.00	SET	692
5.2103	132.34160	3.00	SET	325
5.2521	133.40330	4.00	SET	1
5.3171	135.05430	3.00	SET	900
5.3633	136.22780	3.00	SET	28

5.3811	136.67990	2.00	SET	683
5.4037	137.25390	3.00	SET	470
5.4411	138.20390	2.50	SET	113
5.4473	138.36140	4.00	SET	336
5.4616	138.72460	3.00	SET	649
5.4852	139.32400	2.00	SET	686
5.4934	139.53200	3.00	SET	121
5.5078	139.89810	3.00	SET	870
5.5235	140.29690	4.50	SET	623
5.5435	140.80490	3.00	SET	213
5.5464	140.87850	2.00	SET	157
5.5679	141.42460	3.00	SET	235
5.6126	142.56000	3.00	SET	202
5.6342	143.10860	4.00	SET	426
5.6657	143.90870	3.00	SET	769
5.6838	144.36850	4.00	SET	335
5.7200	145.28800	3.00	SET	280
5.7384	145.75530	4.00	SET	443
5.7564	146.21250	3.00	SET	13
5.7704	146.56810	4.50	SET	226
5.7964	147.22850	3.00	SET	219
5.8036	147.41144	2.00	SET	952
5.8471	148.52	2.00	SET	574
5.8627	148.91250	4.00	SET	449
5.8717	148.14110	3.00	SET	117

5.8918	149.65170	4.25	SET	38
5.8945	149.72030	4.00	SET	506
5.9098	150.10890	4.00	SET	224
5.9238	150.46450	3.00	SET	466
5.9542	151.23660	4.00	SET	487
5.9650	151.51100	4.00	SET	691
6.0014	152.43550	3.00	SET	513
6.0570	153.85780	2.50	SET	636
6.1285	155.66490	4.00	SET	558
6.1414	155.99150	2.00	SET	823
6.1578	156.40810	4.00	SET	930
6.1888	157.19550	4.00	SET	478
6.2074	157.66796	5.00	SET	638
6.2129	157.81	3.00	SET	696
6.2365	158.37400	2.00	SET	883
6.3176	160.46736	2.50	SET	935
6.2404	158.50616	3.00	SET	736
6.2774	159.44596	2.00	SET	948
6.3477	161.23150	2.00	SET	500
6.3675	161.73450	4.00	SET	333
6.3890	162.28060	3.00	SET	584
6.4393	163.55820	3.00	SET	738
6.4538	163.92650	4.00	SET	695
6.4631	164.16	4.00	SET	694
6.4817	164.63518	4.00	SET	660

6.5144	165.46576	4.00	SET	925
6.5405	166.12870	3.00	SET	82
6.5667	166.79410	4.00	SET	776
6.5996	167.62980	4.00	SET	486
6.6183	168.10480	4.00	SET	255
6.6610	168.18940	3.00	SET	601
6.7651	171.83350	4.50	SET	124
6.7938	172.56250	3.50	SET	351
6.8000	172.72000	3.00	SET	6
6.8385	173.69790	2.00	SET	684
6.8945	175.12		SET	506
6.9148	175.63592	2.25	SET	138
6.9202	175.77308	5.00	SET	455
6.9312	173.05248	6.00	SET	31
6.9378	176.22012	4.00	SET	257
6.9590	176.75860	5.00	SET	355
7.0124	178.11490	5.00	SET	650
7.0791	178.80910	2.00	SET	914
7.0810	179.86	6.00	SET	873
7.0949	180.21040	4.00	SET	768
7.0977	180.28	4.00	SET	759
7.1314	181.13750	4.25	SET	508
7.1548	181.73192	5.00	SET	518
7.1935	182.71490	3.00	SET	697
7.3620	186.99480	6.00	SET	699

7.4012	187.99048	5.00	SET	248
7.4392	188.95560	2.50	SET	915
7.9240	190.30696	5.00	SET	253
7.5199	191.00540	2.50	SET	897
7.5526	191.82	3.00	SET	XXX
7.5682	192.23220	3.00	SET	820
7.5870	192.70980	3.00	SET	8
7.5928	192.86	4.00	SET	942
7.6066	193.20760	4.00	SET	665
7.6375	193.99	2.00		881
7.6889	195.29800	4.00	SET	23
7.7385	196.55790	4.00	SET	481
7.7502	196.85500	5.00	SET	221
7.6375	193.99250	2.00	SET	881
7.7693	197.34020	4.00	SET	534
7.8058	198.26730	2.50	SET	125
7.8590	199.61860	3.00	SET	18
7.8777	200.09350	5.00	SET	642
7.8806	200.16724	4.00	SET	313
7.9184	201.12736	2.00	SET	120
7.9458	201.82	4.00	SET	475
7.9860	202.84440	6.00	SET	456
8.0003	203.27620	4.00	SET	225
8.0590	204.7			
8.0757	205.12	4.00	SET	377

8.0858	205.37932	5.00	SET	122
8.0900	205.48600	5.00	SET	827
8.1369	206.67726	4.00	SET	844
8.1538	207.10652	3.00	SET	
8.1982	208.23420	5.00	SET	256
8.2030	208.35620	2.00	SET	701
8.3160	211.22640	3.00	SET	659
8.3330	211.65820	5.00	SET	136
8.3708	212.62	5.00		
8.3905	213.11870	5.00	SET	102
8.4068	213.53270	3.00	SET	106
8.4303				
8.4678	215.08210	5.00	SET	498
8.4954	215.78	4.50	SET	529
8.5162	216.31140	3.00	SET	374
8.6528	219.78110	4.25	SET	641
8.6713	220.25100	5.00	SET	440
8.7163	221.39400	5.00	SET	462
8.7506	222.26520	2.00	SET	605
8.7886	223.23040	4.50	SET	671
8.8430	224.61220	3.00	SET	854
8.8708	225.32	5.00	SET	463
8.9077	226.26	4.00	SET	410
8.9273	226.75340	2.50	SET	573
9.0202	229.11308	5.00	SET	499

9.0341	229.46614	3.00	SET	215
9.1205	231.66070	3.00	SET	703
9.1485	232.37190	6.00	SET	228
9.1707	232.93570	5.00	SET	931
9.2112	233.96448	3.00	SET	369
9.2322	234.5	2.5	SET	105
9.3150	236.60100	5.00	SET	259
9.3969	238.68	4.00	SET	305
9.4419	239.82	3.00	SET	836
9.5052	241.43	4.00	SET	312
9.5181	241.75974	3.00	SET	328
9.5657	242.97	5.00	SET	446
9.5758	243.22530	6.00	SET	448
9.7884	248.62530	4.00	SET	264
9.8165	249.33910	3.00	SET	946
9.9061	251.61490	3.00	SET	126
10.0008	254.02032	2.50	SET	
10.0103	254.26160	2.50	SET	56
10.0244	254.61970	4.00	SET	896
10.1088	256.76350	5.00	SET	637
10.1501	257.81250	5.00	SET	473
10.1753	258.45260	5.00	SET	282
10.1859	258.72180	4.00	SET	373
10.2171	259.51430	4.00	SET	803
10.2484	260.30930	6.00	SET	36

10.3041	261.72410	4.00	SET	379
10.3620	263.19480	4.00	SET	40
10.4011	264.18790	4.00	SET	704
10.4664	265.84650	6.00	SET	271
10.4778	266.13610	4.20	SET	46
10.4787	266.15890	1.60	SET	55
10.4896	266.43580	6.50	SET	864
10.6902	271.53100	3.00	SET	816
10.7082	271.98820	4.25	SET	348
10.7171	272.21430	6.00	SET	427
10.7296	272.53180	6.00	SET	35
10.7740	273.65960	4.00	SET	706
10.9215	277.40610	4.00	SET	705
10.9876	279.08500	3.00	SET	110
11.0325	280.22550	4.00	SET	483
11.1537	283.30390	5.00	SET	356
11.1667	283.63410	6.00	SET	468
11.1886	284.19040	6.00	SET	480
11.2104	284.74410	3.00	SET	344
11.2458	285.64330	2.00	SET	684
11.3270	287.70580	4.00	SET	378
11.4467	290.74610	4.00	SET	923
11.5160	292.50640	4.00	SET	247
11.5229	292.68160	5.00	SET	497
11.6493	295.89220	4.00	SET	80

11.7179	297.63460	4.00	SET	81
11.8098	299.96890	4.00	SET	314
11.8384	300.69530	5.00	SET	635
11.8833	301.83580	4.25	SET	523
11.8993	302.24220	6.00	SET	596
11.9461	303.43090	3.00	SET	104
11.9540	303.63160	2.50	SET	61
11.9833	304.38	4.00	SET	742
12.0290	305.53660	4.00	SET	760
12.0890	307.06060	6.00	SET	501
12.1090	307.56860	2.00	SET	708
12.1359	308.25180	4.00	SET	442
12.2128	310.20512	4.00	SET	612
12.2440	310.99760	5.00	CONVEX	752
12.2788	311.88150	2.00	SET	865
12.3106	312.69000	5.00	SET	792
12.4268	315.64070	6.00	SET	2
12.5540	318.87160	6.00	SET	707
12.5570	319.45580	2.50	SET	10
12.6689	321.79000	3.00	SET	868
12.7175	323.02450	4.00	SET	334
12.7578	324.04810	4.00	SET	656
12.8108	325.39430	5.00	SET	250
12.9450	328.80300	4.00	SET	460
12.9912	329.97640	6.00	SET	839

13.0030	330.27620	6.00	SET	551
13.0354	331.09910	4.00	SET	405
13.1117	333.03710	4.00	SET	42
13.1496	333.99980	4.00	SET	843
13.2650	336.93100	6.00	SET	771
13.3325	338.64550	1.50	SET	682
13.3683	339.55480	5.00	SET	494
13.4590	341.85860	6.00	SET	34
13.4853	342.52660	6.00	SET	552
13.5277	343.60358	4.00	SET	945
13.6006	345.45520	5.00	SET	711
13.6245	346.06230	2.00	SET	689
13.7181	348.43974	4.00	SET	617
13.8210	351.05340	3.00	SET	329
13.9201	353.57050	5.00	SET	710
13.9564	354.49250	3.00	SET	7
14.0095	355.84130	6.00	SET	252
14.1833	360.25580	4.00	SET	342
14.2034	360.76630	6.00	SET	388
14.2044	360.76630	4.00	SET	714
14.3441	364.34010	5.00	SET	713
14.4545	367.14430	4.00	SET	822
14.5282	369.16280	4.00	SET	899
14.7230	373.96420	3.00	SET	234
14.7259	374.03780	3.50	SET	762

14.9888	380.77500	4.00	SET	850
15.0145	381.36830	3.00	SET	240
15.1477	384.75150	5.00	SET	423
15.1507	384.82770	5.00	SET	784
15.1560	384.96240	0.825	SET	
15.4002	391.16500	5.00	SET	232
15.4141	391.51810	6.00	SET	489
15.5697	395.47030	6.00	SET	269
15.6375	397.19250	4.00	SET	496
15.6843	398.38120	3.00	SET	47
15.7140	399.13560	6.00	SET	715
15.9118	404.15970	6.00	SET	917
15.9366	404.78960	4.00	SET	664
15.9874	406.07990	6.00	SET	25
16.0424	407.47690	4.00	SET	326
16.0950	408.81300	6.00	SET	924
16.2031	411.55870	6.00	SET	491
16.2480	412.69920	3.25	SET	826
16.2609	413.02680	5.00	SET	472
16.4486	417.79440	5.00	SET	717
16.5216	419.64860	3.00	SET	27
16.6071	421.82030	6.00	SET	502
16.6292	422.38160	6.00	SET	447
16.8071	426.90030	6.00	SET	908
16.8249	427.35240	5.00	CONCAVE	50

16.8950	429.13300	4.00	SET	716
17.0751	433.70750	6.00	SET	230
17.2070	437.05780	5.00	SET	469
17.3160	439.82640	6.00	SET	718
17.3416	440.47660	4.00	SET	30
17.4602	443.48900	4.00	SET	913
17.4696	443.72780	3.00	SET	343
17.7075	449.77050	6.00	SET	249
17.7941	451.97014	5.00	SET	615
17.8637	453.73790	6.00	SET	251
17.9564	456.09250	5.00	SET	354
18.0638	458.82050	2.00	SET	597
18.5098	470.14890	5.00	SET	805
18.5295	470.63660	6.00	SET	441
18.5760	471.83040	5.00	SET	353
18.6385	473.41790	6.00	SET	878
18.7050	475.11	4.00		490
18.8544	478.9	5.00	SET	490
18.9260	480.72040	2.00	SET	885
19.0919	484.93420	3.00	SET	89
1.1232	485.72920	3.50	SET	680
19.2071	487.86030	5.00	SET	644
19.2737	489.55190	2.50	SET	576
19.3750	492.12500	6.00	SET	19
19.5950	497.71300	4.00	SET	15

19.6422	498.91180	6.00	SET	813
19.7920	502.71680	5.00	SET	357
19.9081	505.66574	4.00	SET	263
20.4623	519.74240	4.00	SET	557
20.6278	523.92580	6.00	SET	137
20.6584	524.72330	4.00	SET	852
20.9681	532.58970	5.00	SET	495
21.1373	536.88740	2.00	SET	872
21.5390	547.09060	6.00	SET	
21.9317	560.06510	6.00	SET	837
22.0580	560.27320	3.00	SET	5
22.1168	561.79210	6.00	SET	389
22.8178	579.55180	6.00	SET	721
22.8659	580.79380	6.00	SET	270
23.0639	585.82300	2.00	SET	607
23.1903	589.03360	3.00	SET	48
23.3416	592.87660	6.75	SET	347
23.5335	597.75090	6.00	SET	832
23.6290	600.17660	3.00	SET	57
23.8335	605.37090	4.00	SET	461
24.4788	621.76150	5.00	SET	639
24.5835	624.42000	4.00	SET	554
24.8254	630.56550	3.00	SET	840
25.1190	638.02260	6.00	SET	227
25.1929	639.89966	6.75	SET	514

25.2784	642.07	2.50	SET	572
25.7180	653.23720	5.75	SET	517
25.9675	659.57450	6.00	SET	507
26.0764	662.34050	3.00	SET	330
26.0806	662.44720	6.00	SET	505
26.0916	662.72660	4.00	SET	341
26.3134	668.36030	4.75	SET	511
26.3685	669.75990	8.00	SET	453
26.6750	667.54500	2.00	SET	722
27.1174	688.78190	6.00	SET	645
27.2960	693.31840	6.00	SET	724
27.5158	698.90130	5.00	SET	555
27.5585	699.99	4.00		
27.7335	704.43090	5.00	SET	49
27.9761	710.59290	2.00	SET	842
28.4245	721.99823	4.00	SET	479
28.4446	722.49280	8.00	SET	451
29.2002	741.68500	6.00	SET	482
29.2008	741.70030	5.00	SET	454
29.3409	745.25880	4.00	SET	43
29.5555	750.70470	4.00	SET	327
29.8455	758.07570	5.00	SET	793
30.0384	762.97530	6.00	SET	406
30.7239	780.38700	3.00	SET	58
30.8188	782.79750	6.00	SET	375

30.9937	787.23990	4.25	SET	675
31.2038	792.58	4.00	SET	39
31.3482	796.24420	8.00	SET	454
31.6448	803.77790	6.00	SET	806
32.1422	816.41180	3.50	SET	559
32.3094	820.65870	2.00	SET	608
33.4982	850.85420	6.00	SET	457
34.6700	880.61800	4.00	SET	41
34.9645	888.09830	6.00	SET	485
35.6300	905.00200	6.00	SET	296
36.0386	915.38040	1.75	SET	520
36.3594				970
37.1015	942.37810	6.00	SET	17
37.4005	949.97270	6.00	SET	428
38.0480	966.41920	6.00	SET	570
38.5807	979.94970	2.00	SET	871
39.3768	1000.17070	4.20	SET	45
39.3823	1000.31040	3.00	SET	59
40.0654	1032.61	6.00	SET	129
40.6374	1032.18990	4.00	SET	726
40.9200	1039.37	12.00		735
41.3080	1049.22320	3.00	SET	593
41.9053	1064.4	3.00	SET	936
42.0876	1069.02504	3.75	SET	319
43.4769	1104.31	4.00		

44.130	1120.9	2.50		
45.0412	1144.04648	5.00	SET	532
45.6060	1158.39	4.00		964
46.3694	1177.78276	3.00	SET	60
46.3724	1177.85890	4.00	SET	758
47.2436	1199.98740	6.00	SET	728
47.9375	1217.61250	2.00	SET	867
48.1825	1223.83550	5.00	SET	737
49.9350	1268.34900	5.00	SET	471
50.0109	1270.27680	4.00	SET	927
51.1310	1298.72740	6.00	SET	516
51.5446	1209.23280	6.00	SET	318
53.9393	1370.05820	6.00	SET	730
55.3590	1406.11860	5.00	SET	135
56.5711	1436.90590	8.00	SET	272
57.2044	1452.99170	6.00	SET	731
58.7950	1493.39300	5.00	CONCAVE	52
58.8262	1494.18540	5.00	SET	44
59.6266	1514.51560	6.00	SET	599
61.2000	1554.48000	6.00	SET	387
62.0926	1577.24340	8.00	SET	274
62.3612	1583.97440	5.00	SET	123
64.8587	1547.41090	5.00	SET	134
67.9442	1725.78260	6.00	SET	133
69.6720	1769.66880	6.00	SET	515

70.6650	1794.89100	2.50	SET	571
70.8000	1798.32000	6.00	SET	445
72.1944	1833.73770	8.00	SET	273
73.4400	1865.37600	5.00	SET	130
73.9528	1878.40110	6.00	SET	748
78.7200	1999.48800	6.00	SET	233
78.8655	2003.22	8.00		549
79.0768	2998.55070	4.00	SET	380
80.0450	2033.14300	8.00	SET	132
81.2600	2064.00400	5.00	SET	859
87.0471	2210.99634	5.00	SET	791
89.050	2261.87	2.00		965
91.3200	2319.52800	6.00	SET	229
93.3750	2371.72500	6.00	SET	444
95.3750	2422.52500	6.00	SET	254
95.7630	2430.78000	5.00	SET	790
100.2500	2546.35000	5.00	SET	533
100.6000	2555.24000	4.25	SET	609
101.1870	2570.14900	6.00	SET	459
102.8750	2613.02500	6.00	SET	361
105.1200	2670.04800	2.00	SET	195
109.1250	2771.77500	4.00	SET	437
111.8659	2841.39386	6.00	SET	799
112.8000	2865.12000	3.50	SET	679
118.2700	3004.05800	4.00	SET	96

122.5000	3111.50000	6.00	SET	751
125.5500	3183.97000	4.00	SET	96
126.5	3213.1			810
132.1250	3355.97500	2.00	SET	598
137.7000	3497.58000	2.00	SET	733
138.3750	3541.72500	6.00	SET	488
140.5400	3569.71600	10.00	SET	281
145.0000	3683.00000	4.00	SET	808
148.2798	3987.800	6.00	SET	783
151.7500	3854.45000	4.00	SET	360
162.2000	4119.88000	6.00	SET	754
170.6000	4353.24000	4.00	SET	814
171.5750	4358.00500	5.00	SET	667
175.5000	4457.70000	6.00	SET	747
179.0000	4546.60000	6.00	SET	797
183.6166	4663.86160	5.00	SET	781
184.0500	4674.87000	5.00	SET	131
190.0000	4826.00000	5.00	SET	785
196.3800	4988.05200	4.00	SET	101
203.0000	5156.20000	5.00	SET	785
210.3750	5343.52500	6.00	SET	591
215.1830	5465.64820	4.00	SET	16
219.6000		6.00		
219.7500	5581.65000	6.00	SET	754
236.815	3577.84	4.00	SET	100

241.0930	6123.76220	5.00	SET	732
247.0000	6273.80000	6.00	SET	750
248.3000	6306.82000	5.00	SET	893
259.8691	6600.67510	6.00	SET	780
260.5000	6616.70000	6.00	SET	746
264.0000	6705.60000	6.00	SET	732
275.1012	6962.17048	5.00	SET	782
282.5000	7175.50000	6.00	SET	755
295.0000	7943.00000	6.00	SET	795
311.4250	7910.19500	1.4	SET	194
313.3600	7959.34400	5.00	SET	261
322.5000	8191.50000	5.00	SET	267
338.6750	8602.34500	5.00	SET	95
368.4500	9358.63000	6.00	SET	504
380.5500	9665.97000	6.00	SET	20
390.8750	9928.22500	6.00	SET	592
400.2500	10166.35000	4.00	SET	99
413				
433.1300	11001.50200	6.00	SET	222
437.000				
440				
444.5	11290.3	4.00	SET	966
456.2500	11588.75000	6.00	SET	370
470.2500	11944.35000	5.00	SET	531
511.8741	13001.60210	7.00	SET	887

514.5000	13068.30000	4.00	SET	372
535.8000	13609.32000	6.00	SET	231
578				
616.4987	15659.06690	7.00	SET	888
628.2500	\$15,957.55000	6.00	SET	749
648.0000	16459.20000	5.00	SET	352
700.0000	17700.00000	27.00	SET	801
749.8000	19044.92000	5.00	SET	695
755.5			SET	
769.3000	19540.22000	5.00	SET	150
799.8010	20314.94540	4.00	SET	151
820.0000	20828.00000	5.00	SET	786
861.1200	21872.44800	2.00	CONVEX	96
915.0000				809
940.0000	23876.00000	5.00	SET	530
1010.0000				
1187.2000	30154.88000	4.00	SET	98
1230.0000	31242.00000	6.00	SET	871
1364.0000	34645.60000	5.00	SET	371
1400.0000	35560.00000	5.00	SET	800
1510.0000	38354.00000	5.00	SET	787
1608.0000	31242.00000	6.00	SET	890
1652.0000	41960.00000	5.00	SET	788
2196.0000	55778.40000	4.00	SET	401
2381.0000	60497.72000	5.00	SET	734