





# Les Industries Spectralux Inc. Spectralux Industries Inc.

2750 Sabourin, Saint-Laurent (Quebec) H4S 1M2 Canada  
Tel.: (514) 332-0082 Fax: (514) 332-3590 [www.spectralux.ca](http://www.spectralux.ca)

## Photometric Report: G0811071-R2

Prepared for: AAAA · Test Date: 07 November 2008

Floodlight: AAAASeries · Lumcat: AAAA-AAA-1000MH-AXIAL

### Photometric Floodlight Characteristics

Nominal Lamp Power	1000.00 W
Measured Input Voltage	286.44 V
Test Lamp Current	4.2763 A
Rated Lamp Lumens	110000
Maximum Candela Value	467876
Maximum Candela Location	0.0 H, 2.5 V
Horizontal Beam Angle (50%)	15.0 °
Vertical Beam Angle (50%)	13.0 °
Horizontal Field Angle (10%)	40.0 °
Vertical Field Angle (10%)	38.0 °
IES/NEMA Type Classification	3Hx3V
Beam Lumens (50%)	16169
Beam Efficiency (50%)	14.70 %
Field Lumens (10%)	44887
Field Efficiency (10%)	40.81 %
Spill Lumens	38301
Total Floodlight Lumens	83188
Total Floodlight Efficiency	75.63 %

### Notes

- 1) Floodlight tested in accordance to IES LM-35-1989 at a distance great enough so that the inverse-square law applies.
- 2) Field performance may differ from laboratory measurements.
- 3) Results are valid for the tested material only.
- 4) All data published in this report are based on relative photometry which assumes initial lamp lumens and a ballast factor of 1.0.
- 5) The original electronic file or paper report cannot be edited in whole or in part without written consent of Spectralux Industries Inc.



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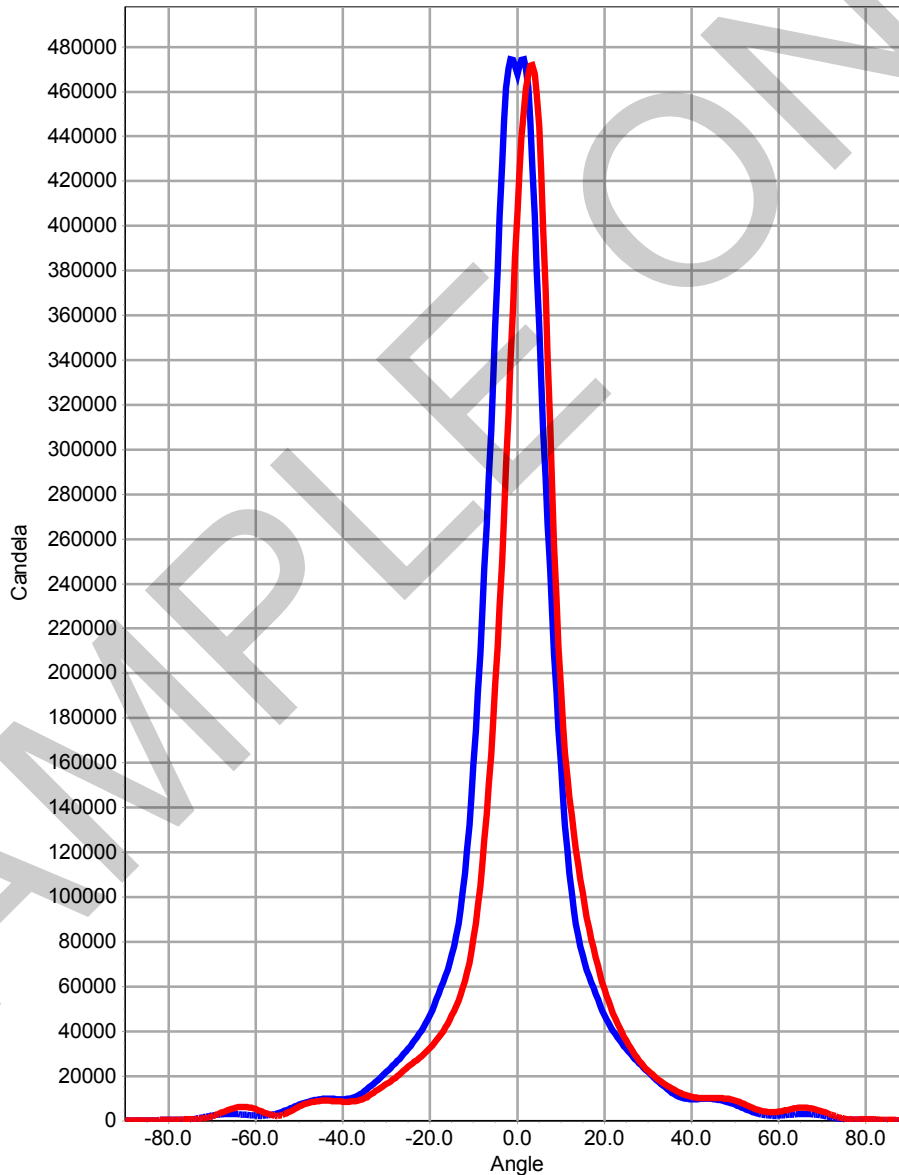
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### Maximum Candela Trace (Max. Location: 0.0 H, 2.5 V)

Horizontal Angles	Candela
-90.0	41
-85.0	157
-80.0	347
-75.0	580
-70.0	2321
-65.0	3005
-60.0	2314
-55.0	3283
-50.0	7221
-45.0	9668
-40.0	9653
-35.0	13308
-30.0	21800
-25.0	32165
-20.0	47181
-15.0	74082
-10.0	159058
-5.0	354945
0.0	467876
5.0	354945
10.0	159058
15.0	74082
20.0	47181
25.0	32165
30.0	21800
35.0	13308
40.0	9653
45.0	9668
50.0	7221
55.0	3283
60.0	2314
65.0	3005
70.0	2321
75.0	580
80.0	347
85.0	157
90.0	41



Vertical Angles	Candela
-90.0	50
-85.0	188
-80.0	390
-75.0	705
-70.0	1982
-65.0	5634
-60.0	5209
-55.0	2221
-50.0	6382
-45.0	8903
-40.0	8563
-35.0	10061
-30.0	16382
-25.0	24158
-20.0	32565
-15.0	46919
-10.0	81422
-5.0	194731
0.0	406004
5.0	444314
10.0	193035
15.0	101867
20.0	58855
25.0	35866
30.0	22458
35.0	14996
40.0	10652
45.0	10109
50.0	9065
55.0	5048
60.0	4094
65.0	5875
70.0	4181
75.0	941
80.0	676
85.0	395
90.0	214

— Horizontal — Vertical



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### Downlight Beam

Distance (feet)	FootCandles at Edge Beam		FootCandles at Center Beam	Field Width	
	H	V		H	V
6.0ft	6332.9 fc	6373.8 fc	12996.6 fc	1.6ft	1.4ft
8.0ft	3562.3 fc	3585.2 fc	7310.6 fc	2.1ft	1.8ft
10.0ft	2279.9 fc	2294.6 fc	4678.8 fc	2.6ft	2.3ft
12.0ft	1583.2 fc	1593.4 fc	3249.1 fc	3.2ft	2.7ft
14.0ft	1163.2 fc	1170.7 fc	2387.1 fc	3.7ft	3.2ft
16.0ft	890.6 fc	896.3 fc	1827.6 fc	4.2ft	3.6ft
18.0ft	703.7 fc	708.2 fc	1444.1 fc	4.7ft	4.1ft
20.0ft	570.0 fc	573.6 fc	1169.7 fc	5.3ft	4.6ft

— Horizontal (15.0 °) — Vertical (13.0 °)



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### Uplight Beam

Distance (feet)	FootCandles at Edge Beam		FootCandles at Center Beam	Field Width	
	H	V		H	V
20.0ft	570.0 fc	573.6 fc	1169.7 fc	5.3ft	4.6ft
18.0ft	703.7 fc	708.2 fc	1444.1 fc	4.7ft	4.1ft
16.0ft	890.6 fc	896.3 fc	1827.6 fc	4.2ft	3.6ft
14.0ft	1163.2 fc	1170.7 fc	2387.1 fc	3.7ft	3.2ft
12.0ft	1583.2 fc	1593.4 fc	3249.1 fc	3.2ft	2.7ft
10.0ft	2279.9 fc	2294.6 fc	4678.8 fc	2.6ft	2.3ft
8.0ft	3562.3 fc	3585.2 fc	7310.6 fc	2.1ft	1.8ft
6.0ft	6332.9 fc	6373.8 fc	12996.6 fc	1.6ft	1.4ft

— Horizontal (15.0 °) — Vertical (13.0 °)



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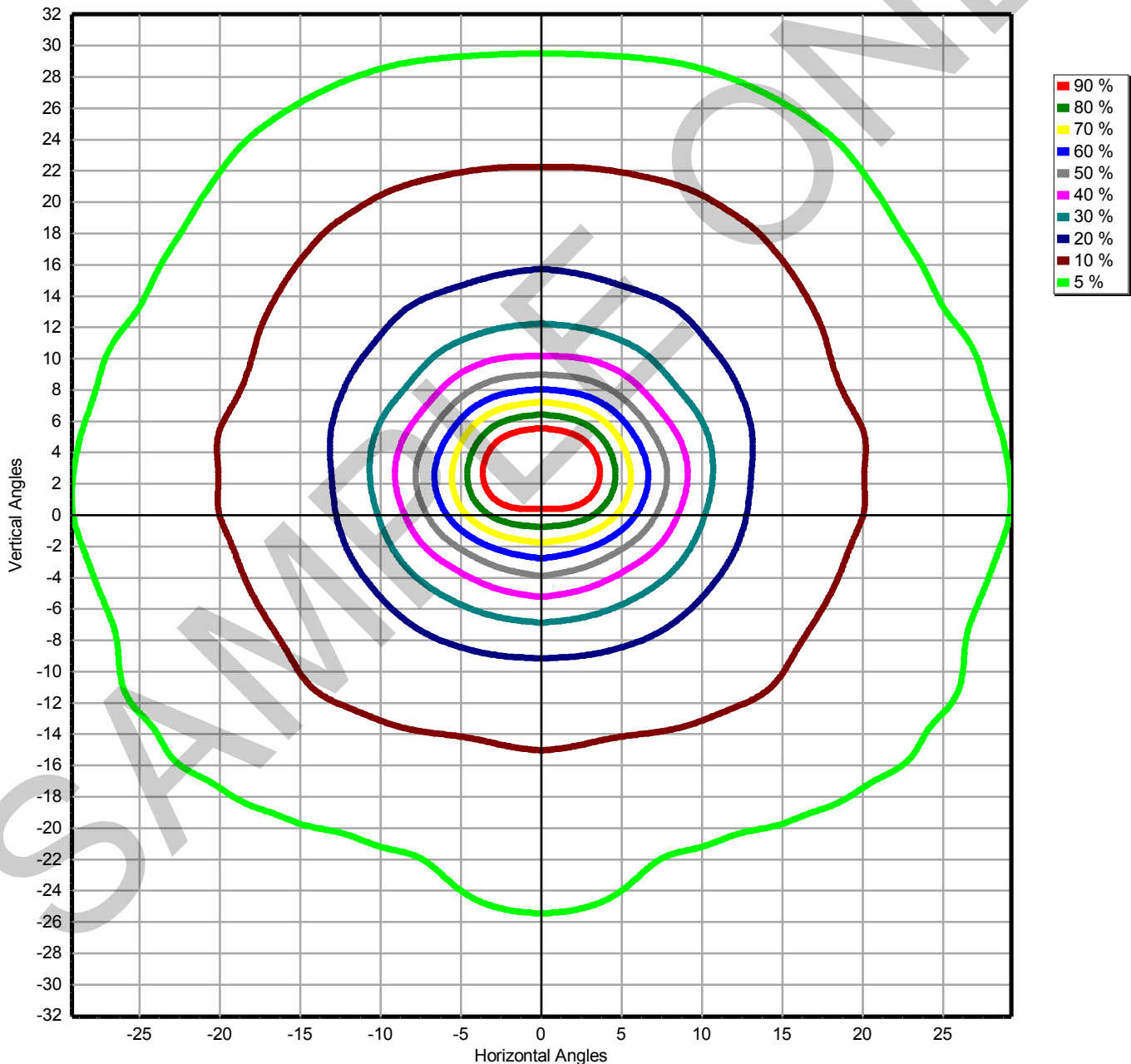


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### ISO Candela Diagram





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## IES File Headers

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IESNA:LM-63-2002
[ISSUEDATE] 07 November 2008
[TESTLAB] Spectra Lux Industries Inc.
[TEST] G0811071-R2
[MANUFAC] AAA
[LUMCAT] AAAA-AAA-1000MH-AXIAL
[LUMINAIRE] AAAA Series
[LAMP] (1) 1000W MH ED37 Clear c/w AAA Ballast AAA @ 277.00V
[_LAMPDETAILS] Standard: M59/E Voltage=263V LCL=7
[_BURNING] Axial (110,000 Lumens)
[_REFLECTOR] Specular Segmented Aluminum Alzak
[_LENS] Tempered Clear Flat Glass
[_HOUSING] None
[_SKTPOSITION] Fixed
[DISTRIBUTION] NEMA 3Hx3V (Max. CP at 0.0H,2.5V)
[MORE] (Based on IES LM-35-1989)
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## Candela Table

### Horizontal Angles

	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0
<b>-90.0</b>	50	50	50	50	50	50	50	50	50
<b>-85.0</b>	188	215	188	187	187	186	186	186	188
<b>-80.0</b>	390	468	493	498	507	495	425	489	574
<b>-75.0</b>	705	688	630	743	856	728	652	745	860
<b>-70.0</b>	1982	2131	2303	2261	1963	1851	1731	1472	1279
<b>-65.0</b>	5634	5973	6127	6012	5748	5705	4916	5111	4903
<b>-60.0</b>	5209	5378	5374	5324	5314	5370	4189	4458	4681
<b>-55.0</b>	2221	2250	2168	2064	2032	1933	1901	1863	2194
<b>-50.0</b>	6382	6371	6239	5898	5582	5135	4671	4261	3745
<b>-45.0</b>	8903	8928	8832	8647	8444	8064	7718	7366	6851
<b>-40.0</b>	8563	8606	8464	8185	7976	7787	7570	7496	7377
<b>-37.5</b>	8708	8646	8485	8041	7767	7581	7436	7359	7350
<b>-35.0</b>	10061	9814	9457	8693	8160	7874	7502	7383	7391
<b>-32.5</b>	13181	13122	12290	11006	9998	9158	8485	7940	7739
<b>-30.0</b>	16382	16406	15266	13677	12463	10979	10238	9465	8604
<b>-27.5</b>	19904	19753	18382	16366	14721	13013	12202	11277	10267
<b>-25.0</b>	24158	23597	21992	19315	17432	15829	14512	13541	12371
<b>-22.5</b>	27934	27359	25538	22504	20912	19236	17895	16549	14982
<b>-20.0</b>	32565	32100	29525	27057	25875	24076	22841	20742	19023
<b>-17.5</b>	38549	37677	34439	33109	31579	30678	28017	26304	23271
<b>-15.0</b>	46919	45671	43129	41626	39958	37168	34693	31684	28131
<b>-12.5</b>	59169	56576	55425	53478	49460	45251	41601	36886	32117
<b>-10.0</b>	81422	79349	75130	69550	61839	54819	47038	40192	34452
<b>-7.5</b>	125410	120065	107714	92243	75253	62750	51933	44108	37557
<b>-5.0</b>	194731	180651	155523	126915	96070	72876	58425	48612	40097
<b>-2.5</b>	292629	270318	222486	171951	121920	86997	65691	53555	42874
<b>0.0</b>	406004	390628	313759	220267	144694	97131	70836	56518	46874
<b>2.5</b>	467876	461664	354945	246636	159058	101837	74082	59302	47181
<b>5.0</b>	444314	417102	316949	219086	149476	102284	73741	57535	47271
<b>7.5</b>	311734	290879	234910	168321	125300	93723	69459	53123	43202
<b>10.0</b>	193035	187930	164203	131816	104223	82668	63110	49152	39170
<b>12.5</b>	136398	130774	118963	105597	87219	70443	57048	45755	36457
<b>15.0</b>	101867	97572	90400	82434	72156	60447	50489	40326	32801
<b>17.5</b>	77090	75136	70134	66152	59758	52097	43379	35827	29282
<b>20.0</b>	58855	58344	55811	52855	48554	42667	37197	31414	25943



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**Horizontal Angles**

	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0
<b>22.5</b>	45677	45514	44243	42342	39592	35736	31344	27185	22656
<b>25.0</b>	35866	35694	35076	33998	31814	29161	26027	22864	19576
<b>27.5</b>	28091	27884	27603	26989	25594	23648	21376	19081	16611
<b>30.0</b>	22458	22315	22028	21508	20586	19179	17476	15785	13836
<b>32.5</b>	18245	18120	17861	17477	16702	15681	14314	12941	11478
<b>35.0</b>	14996	14803	14672	14290	13621	12700	11765	10804	10227
<b>37.5</b>	12331	12229	12019	11616	11208	10744	10424	10253	9984
<b>40.0</b>	10652	10566	10482	10411	10358	10290	10109	10076	9876
<b>45.0</b>	10109	10103	10119	10062	10037	10124	9999	9982	9900
<b>50.0</b>	9065	8982	8913	8761	8443	8090	7672	7284	6709
<b>55.0</b>	5048	4948	4842	4676	4374	3933	3478	3059	2817
<b>60.0</b>	4094	4163	4271	4397	4587	4579	4732	4674	4655
<b>65.0</b>	5875	5900	6084	6222	6321	6132	6333	6303	6427
<b>70.0</b>	4181	4351	4290	4077	3821	3508	3233	2860	2443
<b>75.0</b>	941	973	1000	1003	971	995	877	829	857
<b>80.0</b>	676	706	753	740	729	736	694	677	635
<b>85.0</b>	395	406	395	394	393	391	390	391	389
<b>90.0</b>	214	216	213	216	213	213	213	207	208

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SAMPLE





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NVLAP LAB CODE: 200899-0

## Horizontal Angles

	22.5	25.0	27.5	30.0	32.5	35.0	37.5	40.0	45.0
<b>V</b>									
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<b>l</b>									
<b>e</b>									
<b>s</b>									
<b>-90.0</b>	50	49	49	49	48	48	47	47	47
<b>-85.0</b>	192	185	181	177	175	173	174	167	160
<b>-80.0</b>	422	498	465	430	479	481	498	443	463
<b>-75.0</b>	760	711	662	791	743	616	633	670	682
<b>-70.0</b>	1027	905	794	892	734	785	724	925	683
<b>-65.0</b>	4885	4340	3542	2600	2824	2387	1880	1498	805
<b>-60.0</b>	4859	4638	4523	4716	5502	5151	4826	4542	2379
<b>-55.0</b>	2398	2603	3007	3847	4292	4510	5181	5383	4956
<b>-50.0</b>	3050	2493	2155	2013	2221	2933	3753	4185	5430
<b>-45.0</b>	6312	5799	5137	4250	3417	2614	2051	2233	4044
<b>-40.0</b>	7491	7594	7345	6803	5936	4776	3646	2634	2557
<b>-37.5</b>	7466	7597	7592	7530	7024	6077	4870	3679	1991
<b>-35.0</b>	7490	7536	7528	7649	7614	7109	6046	4738	2243
<b>-32.5</b>	7560	7504	7522	7664	7645	7586	7082	5783	3038
<b>-30.0</b>	8051	7711	7664	7626	7596	7698	7647	6775	3852
<b>-27.5</b>	9225	8323	7921	7602	7692	7742	7776	7563	4748
<b>-25.0</b>	10952	9661	8571	7862	7857	7839	7912	7990	5582
<b>-22.5</b>	13246	11428	9678	8509	7954	7971	8045	8080	6335
<b>-20.0</b>	16379	14081	11842	9668	8494	8177	8206	8096	7030
<b>-17.5</b>	20527	17531	14272	11346	9258	8540	8229	8160	7625
<b>-15.0</b>	24801	20508	17114	13450	10437	8792	8258	8267	8051
<b>-12.5</b>	26977	23570	19789	15554	11852	9234	8574	8481	8403
<b>-10.0</b>	30562	25882	20920	16662	12918	10043	8937	8714	8725
<b>-7.5</b>	31329	26049	21746	17626	14210	11054	9298	8989	8918
<b>-5.0</b>	33679	27900	23296	19418	15777	12004	9797	9180	9153
<b>-2.5</b>	35155	29668	25015	20383	16106	12544	10221	9591	9439
<b>0.0</b>	39673	32972	26945	21649	17099	13164	10466	9798	9671
<b>2.5</b>	38761	32165	26628	21800	17421	13308	10354	9653	9668
<b>5.0</b>	39059	31977	25936	20795	16477	12856	10187	9515	9519
<b>7.5</b>	36014	29649	24134	19367	15210	11948	9840	9421	9358
<b>10.0</b>	32741	27603	22722	18288	14540	11372	9491	9125	9312
<b>12.5</b>	29157	24306	20444	16804	13607	10740	9447	9116	9228
<b>15.0</b>	26845	21881	18078	14971	12236	10047	9310	9110	9213
<b>17.5</b>	23912	19610	16120	13421	11036	9517	9116	9047	8991
<b>20.0</b>	21188	17371	14272	11982	10229	9352	9117	9134	8783
<b>22.5</b>	18778	15465	12784	10715	9588	9193	9169	9220	8292
<b>25.0</b>	16276	13517	11340	9858	9356	9174	9092	9202	7735
<b>27.5</b>	13974	11717	10261	9571	9271	9157	9096	9191	7100
<b>30.0</b>	11920	10340	9793	9428	9260	9215	9132	8748	6259
<b>32.5</b>	10335	9838	9554	9453	9304	9276	9064	7931	5339
<b>35.0</b>	9828	9674	9560	9394	9403	9323	8336	7127	4290
<b>37.5</b>	9874	9666	9568	9550	9348	8551	7442	6132	3258
<b>40.0</b>	9824	9755	9640	9388	8430	7460	6384	5068	2606
<b>45.0</b>	9347	8629	7889	6909	5965	4841	3670	2748	3736
<b>50.0</b>	6080	5275	4355	3499	2635	2438	2965	4098	4582
<b>55.0</b>	2728	2676	2740	3488	3826	3828	3760	4551	5643
<b>60.0</b>	4715	4132	4285	4375	4960	4909	5163	4474	4568
<b>65.0</b>	6540	6252	4828	5202	4993	4193	3430	2482	1152
<b>70.0</b>	2008	1644	1230	1115	1028	995	889	837	890
<b>75.0</b>	933	963	881	832	811	857	751	743	817
<b>80.0</b>	669	743	658	681	672	654	619	597	637
<b>85.0</b>	380	378	376	372	368	374	363	355	345
<b>90.0</b>	205	204	205	206	203	200	199	199	196



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## Horizontal Angles

	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
<b>-90.0</b>	46	44	42	41	38	37	33	30	29
<b>-85.0</b>	152	146	138	161	113	49	45	37	29
<b>-80.0</b>	326	196	171	157	135	160	90	42	29
<b>-75.0</b>	501	342	243	194	166	144	123	41	29
<b>-70.0</b>	696	583	438	270	202	171	135	77	30
<b>-65.0</b>	681	569	666	448	250	198	153	101	30
<b>-60.0</b>	1264	662	743	507	422	227	167	111	30
<b>-55.0</b>	3331	1275	684	603	575	282	180	119	30
<b>-50.0</b>	4669	2868	1181	612	653	332	192	128	30
<b>-45.0</b>	4654	4952	2444	801	602	358	202	133	31
<b>-40.0</b>	4309	5523	3411	1194	574	380	215	138	30
<b>-37.5</b>	4085	5359	3940	1557	583	401	225	140	30
<b>-35.0</b>	3492	5077	4353	1952	623	414	234	142	30
<b>-32.5</b>	2793	4764	4608	2348	643	394	242	143	30
<b>-30.0</b>	2233	4645	4935	2730	660	393	252	145	30
<b>-27.5</b>	2193	4381	5233	3023	753	382	262	147	30
<b>-25.0</b>	2462	4092	5228	3246	834	395	279	149	30
<b>-22.5</b>	2912	3613	4961	3378	910	421	301	150	30
<b>-20.0</b>	3434	3079	4646	3516	1066	439	320	152	30
<b>-17.5</b>	3897	2577	4552	3585	1206	451	326	153	30
<b>-15.0</b>	4293	2267	4595	3795	1355	463	328	155	31
<b>-12.5</b>	4724	2111	4716	4022	1497	472	324	156	31
<b>-10.0</b>	5249	2113	4906	4216	1637	490	323	159	32
<b>-7.5</b>	5714	2370	4998	4294	1749	508	328	163	34
<b>-5.0</b>	6214	2659	4818	4111	1529	524	328	168	35
<b>-2.5</b>	6664	2835	3496	2532	1123	543	338	172	38
<b>0.0</b>	6999	3051	2220	2027	1290	554	346	166	40
<b>2.5</b>	7221	3283	2314	3005	2321	580	347	157	41
<b>5.0</b>	7299	3364	2437	3181	2424	588	336	151	42
<b>7.5</b>	7210	3283	1795	1730	1343	565	322	144	42
<b>10.0</b>	6975	3113	2771	2947	1186	543	316	140	43
<b>12.5</b>	6776	2831	3163	3974	1762	518	310	135	43
<b>15.0</b>	6486	2581	2841	4275	1855	498	303	131	44
<b>17.5</b>	6170	2305	3302	3386	1714	489	294	127	44
<b>20.0</b>	5644	2110	3589	4196	1537	506	283	124	44
<b>22.5</b>	5029	2335	3803	4561	1307	517	271	121	45
<b>25.0</b>	4365	2679	4065	4597	1044	531	266	119	45
<b>27.5</b>	3666	3264	3778	4584	858	528	264	118	46
<b>30.0</b>	3035	3458	4413	4328	805	523	257	116	47
<b>32.5</b>	2750	3717	4830	3512	734	493	251	114	48
<b>35.0</b>	2800	3940	4951	2875	689	453	239	113	49
<b>37.5</b>	3324	4285	4997	2548	648	433	231	114	51
<b>40.0</b>	3651	4749	5056	1893	620	406	224	116	53
<b>45.0</b>	4227	5395	3836	920	673	370	217	122	59
<b>50.0</b>	5361	4980	1993	753	692	381	209	130	66
<b>55.0</b>	5296	2486	912	671	654	329	202	135	75
<b>60.0</b>	2238	896	763	694	510	308	201	143	85
<b>65.0</b>	861	825	704	841	410	294	204	154	96
<b>70.0</b>	761	917	610	568	364	281	212	169	106
<b>75.0</b>	734	861	461	395	327	268	209	172	113
<b>80.0</b>	535	397	365	334	293	248	217	155	115
<b>85.0</b>	335	323	311	294	275	255	183	157	120
<b>90.0</b>	194	190	189	184	183	175	169	155	129