



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HID-22SL-REM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA: LM-63-95
[DATE] 2003-06-17
[MANUFAC] LARSON ELECTRONICS LLC
[LUMCAT] HID-22SL-REM
[LAMP] (1) Clear 1000 Watts Metal Halide BT56
[DISTRIBUTION] 5H x 5V Based on Field Angle (10%)

Note: Candela values converted from Type-B to Type-C

CHARACTERISTICS

Lumens Per Lamp	110000 (1 lamp)
Total Lamp Lumens	110000
Luminaire Lumens	59804
Total Luminaire Efficiency	54 %
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	1000
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.40
Spacing Criterion (90-270)	0.46
Spacing Criterion (Diagonal)	0.54
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.47 ft (Diameter)
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	57591	102472	103119
55	14339	28966	32277
65	4148	6943	7799
75	0	2405	3288
85	0	73	0

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CANDELA TABULATION

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
0.0	128675	128675	128675	128675	128675	128675	128675	128675	128675	128675
2.5	111080	110830	110623	110464	110361	110409	110678	110960	111258	111569
5.0	95464	95341	95270	95259	95301	95444	95202	95146	95341	95581
7.5	82141	82132	82074	81955	81898	81955	82162	82226	82376	82170
10.0	71499	71687	71597	71604	71723	71835	71930	71741	71700	71795
12.5	63309	63021	62816	62704	62759	62750	62726	62755	62839	62872
15.0	55771	55090	54768	54704	54825	54596	54668	54694	54772	54726
17.5	47025	46494	46290	46336	46232	46311	46342	46393	46497	46676
20.0	39658	39361	39164	39116	39097	39083	39089	39020	39092	39261
22.5	33279	32967	32884	32711	32647	32486	32362	32347	32444	32467
25.0	26658	26391	26226	26071	26128	26129	26160	26239	26298	26349
27.5	21720	21579	21520	21482	21510	21502	21511	21533	21567	21632
30.0	18182	18073	18053	18032	18107	18156	18226	18229	18218	18223
32.5	16046	15997	15970	15958	16002	15992	15998	16002	16031	16086
35.0	14207	14118	14114	14157	14185	14226	14269	14315	14340	14366
37.5	12796	12751	12816	12864	12891	12912	12957	13005	13027	13038
40.0	11977	11950	12008	12091	12136	12171	12192	12208	12232	12309
42.5	9195	9178	9566	11279	11497	11592	11615	11577	11603	11739
45.0	6412	6380	7201	10519	10917	10998	10919	10730	10477	10347
47.5	4333	4310	5227	7919	8665	8884	8991	8994	8817	8699
50.0	2253	2248	3093	5150	6030	6194	6324	6389	6374	6391
52.5	1774	1753	2292	3545	4091	4167	4205	4201	4199	4227
55.0	1295	1272	1449	2008	2308	2380	2419	2411	2451	2536
57.5	938	930	1049	1311	1432	1428	1385	1267	1173	1119
60.0	582	587	606	682	742	786	817	813	798	802
62.5	429	434	441	468	486	502	514	517	521	534
65.0	276	283	286	293	308	324	336	344	355	371
67.5	192	192	194	196	204	216	221	223	228	237
70.0	107	102	105	105	112	127	134	138	148	155
72.5	54	51	53	53	56	65	69	72	80	84
75.0	0	0	1	2	4	8	11	15	21	28
77.5	0	0	0	0	0	0	0	0	1	3
80.0	0	0	0	0	0	0	0	0	0	1
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	128675	128675	128675	128675	128675	128675	128675	128675	128675	128675
2.5	111906	111843	111973	112135	112694	112589	112687	112854	113030	113214
5.0	95846	95746	95928	95913	96421	96034	96195	96483	97118	96991
7.5	82163	82222	82411	82693	82583	82745	82652	82917	82898	83365
10.0	71787	71852	71685	71731	71813	71931	72081	72278	72504	72711
12.5	62907	62978	63091	63243	63433	63763	63822	64051	64329	64656
15.0	54840	55028	55289	55452	55638	55836	56086	56498	56562	56905
17.5	46926	47103	47289	47531	47818	47869	47918	47997	48270	48485
20.0	39268	39351	39488	39744	39945	40101	40164	40200	40321	40586
22.5	32589	32740	32769	32895	33052	33017	32993	32999	33234	33741
25.0	26367	26341	26533	26636	26611	26468	26461	26520	26486	26769
27.5	21599	21620	21701	21759	21819	21873	21857	21693	21553	21793
30.0	18216	18279	18306	18309	18288	18356	18374	18092	17960	18263

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32.5	16097	16088	16088	16124	16201	16185	16156	15933	15686	15731
35.0	14338	14352	14352	14361	14389	14445	14423	14268	13891	13415
37.5	13048	13071	13062	13079	13119	13172	13160	13050	12706	12107
40.0	12354	12341	12321	12301	12336	12378	12412	12369	12184	11772
42.5	11841	11849	11844	11857	11867	11863	11921	11931	11833	11500
45.0	10367	10514	10808	11266	11221	11144	11462	11280	11409	11122
47.5	8552	8487	8560	8775	9092	8949	8782	8991	9053	9062
50.0	6377	6334	6260	6172	6321	6408	6401	6346	6261	6338
52.5	4255	4290	4297	4289	4312	4309	4301	4333	4341	4344
55.0	2627	2673	2656	2563	2526	2538	2616	2675	2616	2614
57.5	1140	1337	1480	1545	1500	1369	1223	1419	1545	1490
60.0	805	810	814	815	847	895	894	900	911	939
62.5	533	554	569	585	607	625	624	634	656	673
65.0	380	394	396	402	408	422	441	459	462	463
67.5	243	252	271	284	294	303	312	318	327	339
70.0	161	172	183	193	198	206	223	232	236	241
72.5	89	96	106	121	126	135	155	158	158	156
75.0	37	42	56	68	70	80	93	92	98	100
77.5	7	6	17	22	25	38	49	52	55	55
80.0	2	2	6	8	10	17	21	22	22	22
82.5	0	0	0	0	0	3	1	2	5	6
85.0	0	0	0	0	0	1	0	0	1	1
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	128675	128675	128675	128675	128675	128675	128675	128675	128675	128675
2.5	113408	113723	114052	114140	114433	114740	115375	115382	115704	116053
5.0	97190	97642	98128	97783	97959	98265	98851	98958	99045	99226
7.5	83225	83659	83692	84230	84406	84736	84875	85105	85711	85820
10.0	72940	73221	73523	73846	74286	74467	74770	75035	75174	75286
12.5	65031	65454	65818	66140	66501	66902	67343	67750	68015	68351
15.0	57338	57812	58367	58914	59308	59507	59721	60026	60422	60679
17.5	48955	49448	49965	50355	50899	50950	51449	51508	51754	52054
20.0	41012	41616	42134	42538	42836	43063	43348	43672	43908	44023
22.5	34488	35035	35449	36055	36171	36376	36548	36698	36942	37104
25.0	27579	28168	28586	29007	29222	29284	29526	29855	29958	30037
27.5	22360	22872	23112	23348	23500	23590	23637	23741	24016	24050
30.0	18668	19086	19268	19256	19495	19654	19753	19754	19953	20120
32.5	16196	16614	16828	16863	16944	17040	17169	17223	17314	17373
35.0	14080	14687	14922	14999	15031	15031	15110	15199	15188	15244
37.5	12529	13336	13559	13633	13706	13688	13684	13735	13727	13768
40.0	11737	12258	12632	12744	12804	12793	12819	12863	12845	12850
42.5	10948	11120	11984	12160	12198	12213	12258	12300	12327	12253
45.0	10755	10601	11309	11519	11610	11670	11736	11318	11080	11097
47.5	8892	8533	8686	9440	9470	9651	9586	9217	9175	9468
50.0	6343	6095	6028	6506	6748	6866	6819	6680	6873	7044
52.5	4366	4365	4226	4168	4521	4545	4587	4665	4731	4767
55.0	2683	2729	2698	2627	2752	2881	2853	2849	2916	3048
57.5	1305	1539	1549	1336	1564	1658	1471	1624	1807	1785
60.0	962	970	960	992	998	1000	1028	1054	1066	1038
62.5	684	689	705	710	713	727	732	731	748	754
65.0	477	492	495	494	507	503	506	526	534	520
67.5	343	344	351	354	352	350	357	369	370	382

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70.0	244	247	248	248	247	247	250	253	262	271
72.5	161	164	162	158	159	159	159	162	165	173
75.0	98	96	93	91	90	88	87	83	84	94
77.5	50	42	42	41	38	34	34	26	29	29
80.0	23	20	14	10	7	6	6	0	4	1
82.5	7	6	2	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	128675	128675	128675	128675	128675	128675	128675	128675	128675	128675
2.5	116428	117036	117230	117640	118077	118539	119026	119272	119541	119836
5.0	99517	100121	100216	100597	100987	101336	101752	102102	102609	102943
7.5	86153	86464	86777	87101	87393	87693	88013	88497	88873	89135
10.0	75499	75798	76049	76296	76714	77322	77325	77676	77869	78252
12.5	68666	68888	69306	69631	70165	70572	70872	71096	71527	71986
15.0	60865	61079	61214	61537	61522	61796	61996	62201	62505	62873
17.5	52271	52290	52335	52426	52569	52745	52929	53057	53381	53526
20.0	44165	44163	44286	44353	44391	44433	44629	44803	44959	45161
22.5	37100	37189	37181	37316	37406	37456	37484	37666	37854	37972
25.0	29976	29892	29814	29772	29779	29831	29880	30004	30124	30259
27.5	24163	24200	24282	24273	24268	24266	24330	24326	24355	24398
30.0	20188	20214	20152	20130	20078	20066	20105	20098	20138	20199
32.5	17405	17406	17403	17429	17465	17472	17455	17485	17321	17370
35.0	15299	15315	15319	15269	15208	15182	15142	15179	15093	15078
37.5	13826	13864	13871	13789	13738	13696	13638	13635	13564	13451
40.0	12919	12929	12906	12846	12755	12666	12599	12585	12464	12365
42.5	12217	12246	12270	12252	12164	12117	12040	11996	11818	11654
45.0	11314	11576	11704	11728	11591	11548	11481	11426	11216	10974
47.5	9830	9898	9762	9552	9321	9215	9138	9133	9015	8997
50.0	7144	7175	7064	6935	6841	6818	6794	6792	6660	6657
52.5	4711	4783	4839	4868	4863	4872	4855	4848	4741	4730
55.0	3035	2982	3001	2988	2957	2941	2915	2921	2906	2941
57.5	1590	1529	1749	1900	1967	1987	1990	1983	1945	1887
60.0	1057	1094	1158	1185	1137	1082	1065	1090	1136	1185
62.5	755	753	779	790	798	791	792	794	796	801
65.0	534	551	557	554	547	526	519	519	541	563
67.5	386	389	386	397	410	415	411	410	409	403
70.0	269	279	289	292	302	311	302	308	306	304
72.5	185	188	201	207	213	221	218	220	216	217
75.0	102	110	120	124	124	129	134	136	134	139
77.5	38	46	50	60	66	76	81	81	76	68
80.0	2	6	8	18	20	25	28	27	27	27
82.5	0	0	0	1	0	9	14	10	1	3
85.0	0	0	0	0	0	0	0	1	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	128675	128675	128675	128675	128675	128675	128675	128675	128675	128675
2.5	120301	120484	120807	121160	121543	122038	122362	122772	123220	123708

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5.0	103407	103834	104166	104531	104801	105083	105678	105875	106322	106629
7.5	89452	89844	90290	90482	90693	90998	91240	91413	91418	91368
10.0	78572	78810	79070	79424	79821	80049	80082	80087	80145	80033
12.5	72495	73025	73307	73304	73023	72728	72362	72054	71895	71891
15.0	63195	63652	64305	64304	63990	63519	63153	62892	62709	62513
17.5	53695	54086	54426	54287	53862	53479	53131	52842	52842	52466
20.0	45410	45742	45801	45538	45300	45050	44803	44577	44397	44206
22.5	38194	38501	38379	38318	38142	37966	37843	37609	37282	37043
25.0	30446	30639	30793	30936	30942	30919	30794	30575	30425	30285
27.5	24476	24536	24616	24594	24586	24487	24506	24598	24545	24412
30.0	20288	20444	20538	20572	20533	20536	20648	20600	20465	20267
32.5	17360	17459	17654	17742	17739	17769	17851	17782	17677	17528
35.0	15062	15177	15341	15358	15358	15452	15499	15437	15306	15221
37.5	13420	13572	13650	13689	13740	13821	13868	13881	13678	13329
40.0	12372	12511	12552	12589	12643	12699	12718	12643	12450	12064
42.5	11660	11701	11747	11860	11918	11948	11912	11858	11717	11589
45.0	10984	10875	10838	10737	10781	10952	11163	11130	10626	10401
47.5	9173	9338	9481	9315	9154	9114	9320	9159	8805	8476
50.0	6788	6996	7066	7117	7060	7013	6913	6761	6639	6693
52.5	4760	4820	4809	4901	4945	4910	4801	4695	4720	4797
55.0	3006	3080	3151	3177	3086	3037	3056	3029	2905	2993
57.5	1795	1635	1690	1884	1928	1809	1648	1763	1775	1548
60.0	1198	1153	1118	1094	1141	1151	1088	1085	1120	1117
62.5	792	777	797	804	788	773	791	801	794	792
65.0	570	577	567	544	556	564	558	570	575	556
67.5	393	401	407	396	396	409	410	412	413	421
70.0	303	295	290	295	297	295	302	308	315	320
72.5	217	212	207	209	209	209	212	219	226	229
75.0	139	131	135	135	129	134	134	136	150	161
77.5	70	69	73	71	69	67	74	77	89	98
80.0	18	17	24	14	25	28	30	30	37	51
82.5	1	0	3	3	3	3	6	11	17	25
85.0	0	0	0	0	0	1	1	1	1	6
87.5	0	0	0	0	0	0	0	0	0	3
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	128675	128675	128675	128675	128675	128675	128675	128675	128675	128675
2.5	124653	124690	124887	125157	125502	125922	126320	127130	127269	127482
5.0	107620	107214	107235	107263	107393	107463	107757	108142	108196	108307
7.5	91235	91185	91311	91395	91361	91554	91489	91934	91928	92296
10.0	79919	79801	79676	79618	79600	79251	79564	79684	79837	80024
12.5	72049	72025	71612	71336	71198	71198	71335	71730	71426	71246
15.0	62281	62082	61958	61847	61734	61843	61502	61367	61277	61235
17.5	52407	52341	52291	52253	52188	52081	51992	51922	51858	51691
20.0	44020	43832	43639	43571	43547	43507	43674	43802	43909	44034
22.5	36890	36820	36545	36493	36349	36289	36454	36670	36938	37013
25.0	30106	30093	30038	29949	29829	29760	29770	29948	30238	30426
27.5	24325	24315	24203	24006	24006	24327	24550	24710	24712	24615
30.0	20197	19949	19748	20126	20432	20650	20740	20658	20538	20534
32.5	17329	17292	17363	17501	17687	17851	17908	17860	17774	17707
35.0	15162	15152	15160	15251	15453	15535	15524	15440	15282	15273
37.5	12951	12986	13457	13699	13765	13732	13690	13738	13761	13718
40.0	11917	12114	12418	12671	12707	12681	12649	12605	12528	12444

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CANDELA TABULATION - (Cont.)

42.5	11584	11756	11869	11877	11895	11900	11800	11652	11572	11553
45.0	10773	10801	10798	10883	10999	10723	10609	10598	10606	10562
47.5	8653	9049	9287	9143	9015	8991	9042	8964	8847	8625
50.0	6833	6954	6954	6885	6860	6878	6839	6756	6633	6553
52.5	4836	4839	4745	4792	4808	4811	4686	4702	4674	4608
55.0	3034	3047	3014	2978	2966	3016	2963	2929	2861	2868
57.5	1758	1752	1526	1731	1764	1604	1434	1720	1968	2137
60.0	1063	1097	1098	1061	1038	1052	1097	1209	1381	1479
62.5	789	777	789	805	809	805	803	823	884	891
65.0	570	595	610	613	604	580	555	532	514	520
67.5	434	450	455	443	419	402	398	402	407	403
70.0	321	324	323	324	320	314	308	302	305	293
72.5	233	238	242	242	234	226	222	209	203	188
75.0	164	166	165	161	152	140	144	141	137	131
77.5	99	98	103	106	106	103	101	98	92	84
80.0	60	66	69	72	71	66	60	55	48	36
82.5	31	35	37	38	38	30	24	19	17	6
85.0	10	14	18	21	23	20	16	13	12	4
87.5	5	7	9	11	12	10	8	6	6	2
90.0	0	0	0	1	1	1	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	128675	128675	128675	128675	128675	128675	128675	128675	128675	128675
2.5	127727	128004	128602	128530	128616	128717	128444	128781	128970	129279
5.0	108442	107868	108312	108519	108884	109311	109501	109952	109367	109622
7.5	91732	91319	91883	92269	92509	92232	92182	92479	92591	92181
10.0	80251	80820	80966	80869	80515	80864	80929	80699	80609	80140
12.5	71136	71099	71136	71280	71534	71436	71521	71882	72001	72244
15.0	61222	61103	61063	61104	61352	61635	62076	62547	63455	63710
17.5	51726	51864	52009	52119	52290	52528	52977	53457	54184	54570
20.0	44147	44150	44184	44282	44288	44379	44622	44893	45131	45665
22.5	37024	37039	36935	36855	36863	36879	37009	37239	37629	38003
25.0	30445	30272	30109	29920	29771	29703	29769	29938	30274	30533
27.5	24409	24079	23971	24094	24229	24378	24564	24780	25064	25198
30.0	20561	20598	20617	20589	20555	20523	20499	20420	20356	20247
32.5	17671	17617	17527	17528	17489	17459	17442	17398	17360	17345
35.0	15330	15359	15326	15273	15153	15034	14907	14790	14677	14619
37.5	13616	13484	13296	13269	13284	13260	13218	13177	13124	13112
40.0	12406	12383	12343	12302	12246	12148	12039	11920	11814	11731
42.5	11570	11561	11518	11389	11215	11097	11019	10925	10859	10816
45.0	10355	10187	10076	10000	9983	10012	10025	10001	9966	9947
47.5	8496	8418	8407	8437	8434	8413	8341	8245	8138	8057
50.0	6563	6473	6413	6370	6338	6291	6229	6161	6101	6050
52.5	4558	4487	4411	4447	4546	4623	4676	4699	4710	4711
55.0	3048	3209	3318	3393	3443	3475	3493	3480	3464	3447
57.5	2240	2328	2372	2385	2376	2353	2324	2272	2227	2187
60.0	1509	1510	1479	1419	1342	1256	1169	1077	997	931
62.5	843	753	667	669	672	673	680	679	678	680
65.0	530	532	532	531	529	529	530	527	523	522
67.5	409	405	400	395	388	385	382	375	367	364
70.0	290	280	270	260	249	241	235	223	212	207
72.5	174	170	165	163	160	159	161	156	151	151
75.0	124	121	116	113	111	109	109	106	102	101
77.5	75	72	67	64	61	59	58	55	52	51

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HID-22SL-REM.IES

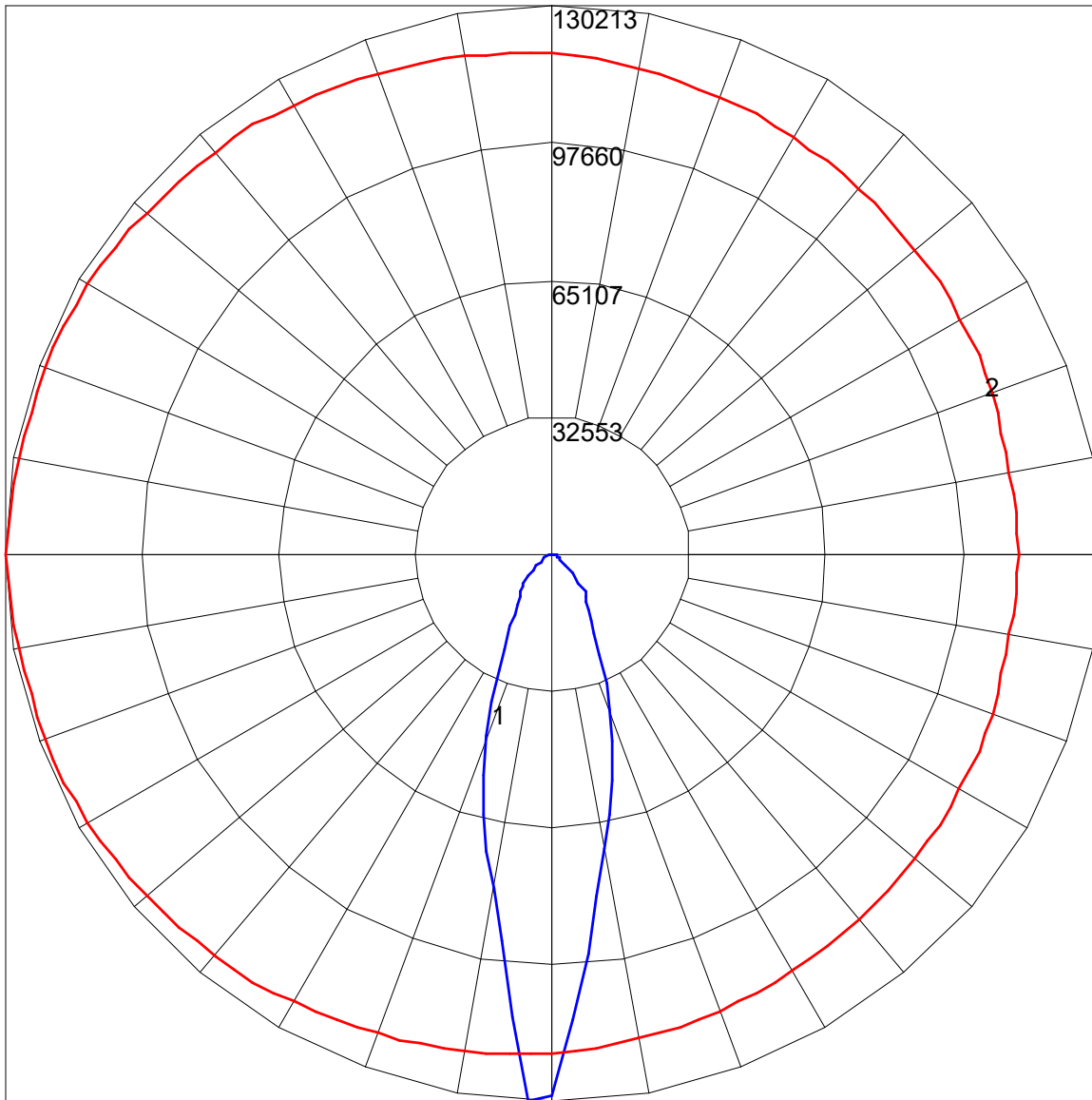
CANDELA TABULATION - (Cont.)

80.0	26	22	18	15	12	9	7	5	3	0
82.5	0	0	0	0	0	0	0	0	0	0
85.0	0	0	0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>
0.0	128675	128675	128675
2.5	129589	129901	130213
5.0	109892	110194	110496
7.5	92338	92485	92625
10.0	80275	80469	81026
12.5	72508	72424	72808
15.0	64202	64420	64589
17.5	55017	55145	55279
20.0	45438	45741	45968
22.5	38111	38237	38298
25.0	30404	30612	30628
27.5	25369	25350	25339
30.0	20010	19997	20050
32.5	17320	17259	17250
35.0	14532	14466	14449
37.5	13091	13091	13051
40.0	11708	11683	11653
42.5	10803	10817	10799
45.0	9911	9927	9945
47.5	8000	7992	7986
50.0	6042	6019	6027
52.5	4736	4737	4725
55.0	3453	3440	3424
57.5	2162	2142	2122
60.0	832	833	820
62.5	679	676	664
65.0	519	519	509
67.5	360	361	353
70.0	195	202	197
72.5	147	152	148
75.0	98	102	99
77.5	50	51	49
80.0	0	0	0
82.5	0	0	0
85.0	0	0	0
87.5	0	0	0
90.0	0	0	0

POLAR GRAPH



Maximum Candela = 130213 Located At Horizontal Angle = 180, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)