



8165 E. Kaiser Blvd. Anaheim, CA 92808
www.lightlaboratory.com

Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L122111201.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L122111201
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 12/15/2021
[MANUFAC] BARTCO LIGHTING INC
[LUMCAT] BWG400-FT-44-35-ND-R-SN
[LUMINAIRE] 3 inch aperture recessed wall graze LED luminaire, w/flange trim. 44 inch nom. straight, 3500K, 120-277V non-dimm
[BALLASTCAT] CUSTOM DRIVER
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 120VAC
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2046
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	28.44
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.32
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	0.48
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.29 ft
Luminous Width (90-270)	3.69 ft
Luminous Height	0.10 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3487	2532	19482
55	188	3834	14641
65	178	243	10450
75	170	216	6982
85	163	230	2729

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L122111201.IES

CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	3660	3660	3660	3660	3660	3660	3660	3660	3660	3660
1	3906	3888	3903	3882	3894	3866	3877	3839	3848	3797
2	3878	3901	3882	3905	3892	3905	3899	3896	3895	3870
3	3720	3788	3734	3807	3774	3841	3824	3873	3868	3888
4	3342	3530	3326	3575	3410	3661	3643	3758	3760	3839
5	3078	3188	3114	3267	3222	3398	3325	3564	3504	3728
6	2729	2828	2766	2903	2882	3055	3064	3281	3293	3537
7	2389	2506	2427	2594	2555	2751	2771	2993	3044	3310
8	2142	2221	2178	2293	2290	2449	2444	2690	2766	3036
9	1884	1971	1918	2052	2026	2202	2226	2438	2513	2778
10	1695	1753	1728	1819	1831	1961	2002	2190	2282	2536
11	1498	1567	1528	1629	1624	1761	1795	1980	2063	2316
12	1356	1402	1384	1460	1474	1586	1627	1791	1884	2116
13	1208	1259	1234	1313	1316	1429	1461	1625	1708	1933
14	1091	1134	1125	1184	1196	1292	1324	1475	1564	1767
15	988	1027	1010	1072	1080	1172	1209	1342	1422	1621
16	899	932	919	974	983	1065	1102	1226	1301	1486
17	820	848	839	887	898	972	1008	1119	1193	1365
18	751	782	769	845	823	889	924	1026	1096	1254
19	690	717	706	750	756	847	849	942	1009	1155
20	637	657	652	689	697	754	784	863	931	1059
21	590	612	604	639	645	699	724	819	861	984
22	548	563	560	590	598	646	671	744	798	905
23	510	527	521	550	554	602	621	693	738	855
24	475	488	486	511	518	559	581	643	689	787
25	443	458	453	478	483	523	541	601	641	738
26	413	424	423	445	452	487	507	560	601	685
27	385	396	394	414	421	454	474	523	561	640
28	359	369	368	387	395	426	445	492	527	600
29	335	344	342	361	368	398	416	460	494	562
30	311	320	320	337	345	373	391	433	465	528
31	290	298	297	314	321	348	365	405	436	497
32	268	277	275	293	299	327	341	381	409	467
33	251	258	258	273	279	304	321	357	385	440
34	234	241	240	254	260	284	299	336	361	418
35	223	227	227	238	244	266	280	314	338	417
36	213	218	217	226	230	249	262	294	321	367
37	209	211	211	217	220	234	247	276	303	346
38	210	209	210	211	213	224	233	259	283	326
39	215	212	213	210	211	216	223	244	266	306
40	227	221	222	214	213	212	217	232	252	288
41	244	235	236	223	220	212	214	223	239	271
42	265	254	255	238	233	218	215	217	229	256
43	289	277	279	257	251	230	221	216	223	244
44	310	300	301	280	272	246	233	218	220	232
45	330	322	321	303	294	266	249	226	221	225
46	349	340	339	321	313	288	268	238	227	222
47	365	359	356	340	330	307	290	255	237	222
48	327	371	327	355	347	322	307	272	252	226
49	79	193	202	361	358	338	321	292	267	234
50	25	87	27	154	277	349	334	306	285	244
51	23	24	24	27	36	332	342	318	299	258
52	21	22	22	24	25	95	308	327	309	272
53	19	20	20	22	23	26	64	333	317	286

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L122111201.IES

CANDELA TABULATION - (Cont.)

54	17	18	18	20	21	23	25	252	322	295
55	16	17	17	18	19	21	23	99	310	301
56	16	16	17	17	18	19	21	24	83	304
57	16	16	16	17	17	18	19	22	25	301
58	15	16	16	16	17	17	18	20	22	159
59	15	15	15	16	16	17	17	18	20	31
60	14	15	15	15	16	16	16	17	19	23
61	14	14	15	15	15	16	16	17	17	20
62	14	14	14	15	15	15	16	16	17	19
63	13	14	14	14	15	15	15	16	16	17
64	13	13	13	14	14	15	15	15	15	16
65	13	13	13	13	14	14	14	15	15	16
66	12	13	13	13	13	14	14	14	15	15
67	12	12	12	13	13	13	13	14	14	15
68	12	12	12	12	13	13	13	13	14	14
69	11	12	12	12	12	13	13	13	13	14
70	11	11	12	12	12	12	12	13	13	13
71	11	11	11	12	12	12	12	12	12	13
72	10	11	11	11	11	12	12	12	12	12
73	10	10	11	11	11	11	11	12	12	12
74	10	10	10	11	11	11	11	11	11	12
75	10	10	10	10	10	11	11	11	11	11
76	9	10	10	10	10	10	11	11	11	11
77	9	9	9	10	10	10	10	10	10	11
78	9	9	9	10	10	10	10	10	10	10
79	9	9	9	9	9	10	10	10	10	10
80	8	9	9	9	9	9	9	10	9	10
81	8	8	8	9	9	9	9	9	9	9
82	8	8	8	8	9	9	9	9	9	9
83	7	8	8	8	8	9	8	9	8	9
84	7	7	8	8	8	8	8	8	8	8
85	7	7	7	8	8	8	8	8	8	8
86	7	7	7	7	7	8	8	8	8	8
87	7	7	7	7	7	7	7	7	7	7
88	6	6	7	7	7	7	7	7	7	7
89	6	6	6	7	7	7	7	7	7	7
90	0	0	0	0	0	0	0	0	0	0
91	0	0	0	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0	0
93	0	0	0	0	0	0	0	0	0	0
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107	0	0	0	0	0	0	0	0	0	0
108	0	0	0	0	0	0	0	0	0	0
109	0	0	0	0	0	0	0	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L122111201.IES

CANDELA TABULATION - (Cont.)

110	0	0	0	0	0	0	0	0	0	0
111	0	0	0	0	0	0	0	0	0	0
112	0	0	0	0	0	0	0	0	0	0
113	0	0	0	0	0	0	0	0	0	0
114	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
116	0	0	0	0	0	0	0	0	0	0
117	0	0	0	0	0	0	0	0	0	0
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119	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
121	0	0	0	0	0	0	0	0	0	0
122	0	0	0	0	0	0	0	0	0	0
123	0	0	0	0	0	0	0	0	0	0
124	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
126	0	0	0	0	0	0	0	0	0	0
127	0	0	0	0	0	0	0	0	0	0
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137	0	0	0	0	0	0	0	0	0	0
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145	0	0	0	0	0	0	0	0	0	0
146	0	0	0	0	0	0	0	0	0	0
147	0	0	0	0	0	0	0	0	0	0
148	0	0	0	0	0	0	0	0	0	0
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150	0	0	0	0	0	0	0	0	0	0
151	0	0	0	0	0	0	0	0	0	0
152	0	0	0	0	0	0	0	0	0	0
153	0	0	0	0	0	0	0	0	0	0
154	0	0	0	0	0	0	0	0	0	0
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156	0	0	0	0	0	0	0	0	0	0
157	0	0	0	0	0	0	0	0	0	0
158	0	0	0	0	0	0	0	0	0	0
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160	0	0	0	0	0	0	0	0	0	0
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163	0	0	0	0	0	0	0	0	0	0
164	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L122111201.IES

CANDELA TABULATION - (Cont.)

166	0	0	0	0	0	0	0	0	0	0
167	0	0	0	0	0	0	0	0	0	0
168	0	0	0	0	0	0	0	0	0	0
169	0	0	0	0	0	0	0	0	0	0
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171	0	0	0	0	0	0	0	0	0	0
172	0	0	0	0	0	0	0	0	0	0
173	0	0	0	0	0	0	0	0	0	0
174	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
176	0	0	0	0	0	0	0	0	0	0
177	0	0	0	0	0	0	0	0	0	0
178	0	0	0	0	0	0	0	0	0	0
179	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0	3660	3660	3660	3660	3660	3660	3660	3660	3660	3660
1	3801	3738	3734	3664	3639	3565	3523	3457	3529	3415
2	3866	3820	3803	3740	3703	3618	3559	3468	3526	3389
3	3883	3866	3849	3796	3752	3666	3590	3485	3518	3362
4	3847	3870	3860	3829	3784	3701	3611	3492	3506	3331
5	3754	3830	3837	3836	3799	3724	3626	3495	3494	3299
6	3604	3741	3779	3821	3798	3736	3636	3496	3480	3265
7	3380	3610	3681	3780	3778	3739	3640	3493	3467	3228
8	3177	3438	3562	3715	3748	3734	3640	3487	3447	3183
9	2914	3235	3404	3628	3695	3718	3630	3480	3416	3144
10	2702	3018	3229	3513	3632	3689	3618	3464	3395	3096
11	2465	2800	3032	3373	3544	3650	3595	3447	3365	3047
12	2282	2592	2845	3226	3432	3601	3569	3428	3339	3001
13	2083	2398	2647	3051	3338	3542	3538	3405	3307	2948
14	1923	2218	2475	2887	3217	3476	3498	3378	3271	2898
15	1787	2052	2299	2708	3069	3394	3453	3347	3229	2841
16	1623	1899	2141	2551	2916	3313	3404	3311	3192	2784
17	1497	1758	1994	2386	2774	3210	3342	3272	3152	2732
18	1382	1630	1857	2242	2620	3108	3293	3233	3109	2671
19	1276	1509	1730	2095	2482	2990	3227	3186	3058	2614
20	1181	1391	1607	1957	2336	2863	3151	3137	3009	2553
21	1095	1300	1503	1839	2210	2744	3077	3084	2961	2496
22	1016	1200	1396	1718	2077	2613	2993	3027	2909	2432
23	944	1122	1306	1616	1957	2491	2906	2972	2850	2371
24	878	1039	1215	1509	1843	2360	2814	2906	2794	2307
25	819	974	1140	1417	1735	2243	2720	2842	2733	2245
26	764	904	1062	1323	1633	2119	2623	2773	2675	2182
27	712	854	996	1239	1536	2006	2522	2698	2608	2117
28	669	804	929	1161	1444	1896	2418	2630	2546	2051
29	625	744	871	1089	1358	1790	2313	2552	2477	1987
30	588	698	817	1019	1276	1691	2209	2479	2414	1922
31	551	655	766	956	1200	1593	2103	2399	2341	1856
32	518	615	717	899	1124	1507	1994	2324	2271	1788
33	489	579	676	854	1060	1416	1896	2241	2202	1727
34	460	545	634	807	993	1338	1794	2169	2133	1661
35	435	514	598	750	936	1256	1697	2087	2063	1600
36	408	485	562	704	878	1183	1605	2009	1989	1535

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L122111201.IES

CANDELA TABULATION - (Cont.)

37	386	458	531	665	828	1112	1517	1935	1924	1478
38	363	432	500	624	776	1048	1432	1862	1853	1416
39	342	408	472	589	730	985	1352	1788	1789	1354
40	325	385	446	553	687	927	1275	1716	1720	1300
41	307	363	421	523	645	872	1200	1649	1659	1241
42	289	342	396	492	609	829	1134	1578	1591	1189
43	273	323	375	464	572	777	1065	1509	1533	1133
44	259	304	352	438	539	730	1005	1441	1469	1084
45	247	287	331	413	507	685	944	1372	1408	1030
46	237	272	318	390	479	646	890	1310	1348	983
47	230	258	300	367	450	605	834	1243	1290	932
48	227	247	284	347	424	570	781	1183	1230	885
49	226	237	270	327	399	534	735	1117	1177	839
50	230	231	257	309	375	503	687	1060	1120	795
51	236	228	247	292	354	471	646	998	1068	751
52	244	227	239	276	332	441	603	938	1014	709
53	253	228	234	263	316	415	566	884	966	668
54	265	231	231	252	298	388	527	847	914	629
55	276	235	228	243	281	364	494	784	868	591
56	284	241	226	236	265	340	459	730	817	553
57	287	248	224	231	253	320	427	684	774	516
58	287	257	225	225	242	298	398	635	743	483
59	279	263	227	219	233	280	369	592	691	447
60	132	264	232	213	226	261	334	547	650	418
61	24	261	238	207	218	245	321	506	608	384
62	22	252	241	203	210	231	297	468	570	359
63	19	97	238	201	201	218	275	431	534	325
64	18	23	232	202	191	208	253	396	499	303
65	16	20	178	206	182	197	234	363	465	278
66	16	18	36	207	173	188	215	331	433	253
67	15	16	20	201	169	178	198	301	401	230
68	15	15	18	189	167	167	182	272	374	208
69	14	15	16	97	167	156	169	247	346	187
70	14	14	15	20	163	144	155	221	318	168
71	13	14	14	18	152	132	143	199	292	150
72	13	13	14	16	79	123	131	177	267	132
73	12	13	13	14	18	118	119	158	243	116
74	12	12	12	14	16	116	109	139	221	100
75	11	12	12	13	14	108	96	122	198	85
76	11	11	11	12	13	89	85	106	177	71
77	10	11	11	11	12	17	74	91	155	58
78	10	10	10	11	12	15	69	85	137	47
79	10	10	10	10	11	13	60	67	118	37
80	9	10	9	10	10	12	25	57	102	29
81	9	9	9	9	10	11	14	46	85	24
82	9	9	9	9	9	10	12	37	70	20
83	8	8	8	8	8	9	11	30	55	17
84	8	8	8	8	8	9	10	20	43	14
85	8	8	7	8	7	8	9	12	31	11
86	7	7	7	7	7	7	7	9	18	9
87	7	7	7	7	6	6	6	7	11	7
88	7	7	6	6	6	6	5	5	6	5
89	6	6	6	6	5	5	4	4	4	3
90	0	0	0	0	0	0	0	0	0	0
91	0	0	0	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L122111201.IES

CANDELA TABULATION - (Cont.)

93	0	0	0	0	0	0	0	0	0	0
94	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0	0	0	0
99	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
101	0	0	0	0	0	0	0	0	0	0
102	0	0	0	0	0	0	0	0	0	0
103	0	0	0	0	0	0	0	0	0	0
104	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
106	0	0	0	0	0	0	0	0	0	0
107	0	0	0	0	0	0	0	0	0	0
108	0	0	0	0	0	0	0	0	0	0
109	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
111	0	0	0	0	0	0	0	0	0	0
112	0	0	0	0	0	0	0	0	0	0
113	0	0	0	0	0	0	0	0	0	0
114	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
116	0	0	0	0	0	0	0	0	0	0
117	0	0	0	0	0	0	0	0	0	0
118	0	0	0	0	0	0	0	0	0	0
119	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
121	0	0	0	0	0	0	0	0	0	0
122	0	0	0	0	0	0	0	0	0	0
123	0	0	0	0	0	0	0	0	0	0
124	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
126	0	0	0	0	0	0	0	0	0	0
127	0	0	0	0	0	0	0	0	0	0
128	0	0	0	0	0	0	0	0	0	0
129	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
131	0	0	0	0	0	0	0	0	0	0
132	0	0	0	0	0	0	0	0	0	0
133	0	0	0	0	0	0	0	0	0	0
134	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0
136	0	0	0	0	0	0	0	0	0	0
137	0	0	0	0	0	0	0	0	0	0
138	0	0	0	0	0	0	0	0	0	0
139	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
141	0	0	0	0	0	0	0	0	0	0
142	0	0	0	0	0	0	0	0	0	0
143	0	0	0	0	0	0	0	0	0	0
144	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0
146	0	0	0	0	0	0	0	0	0	0
147	0	0	0	0	0	0	0	0	0	0
148	0	0	0	0	0	0	0	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L122111201.IES

CANDELA TABULATION - (Cont.)

149	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0
151	0	0	0	0	0	0	0	0	0	0
152	0	0	0	0	0	0	0	0	0	0
153	0	0	0	0	0	0	0	0	0	0
154	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0
156	0	0	0	0	0	0	0	0	0	0
157	0	0	0	0	0	0	0	0	0	0
158	0	0	0	0	0	0	0	0	0	0
159	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0
161	0	0	0	0	0	0	0	0	0	0
162	0	0	0	0	0	0	0	0	0	0
163	0	0	0	0	0	0	0	0	0	0
164	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0
166	0	0	0	0	0	0	0	0	0	0
167	0	0	0	0	0	0	0	0	0	0
168	0	0	0	0	0	0	0	0	0	0
169	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0
171	0	0	0	0	0	0	0	0	0	0
172	0	0	0	0	0	0	0	0	0	0
173	0	0	0	0	0	0	0	0	0	0
174	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0
176	0	0	0	0	0	0	0	0	0	0
177	0	0	0	0	0	0	0	0	0	0
178	0	0	0	0	0	0	0	0	0	0
179	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	3660	3660	3660	3660	3660	3660	3660	3660	3660	3660
1	3438	3438	3480	3460	3518	3469	3543	3466	3573	3466
2	3388	3364	3379	3340	3372	3270	3369	3265	3374	3266
3	3336	3284	3281	3207	3229	3144	3172	3080	3127	3028
4	3280	3202	3168	3076	3060	2949	2965	2840	2880	2751
5	3223	3123	3059	2943	2897	2770	2755	2624	2634	2507
6	3162	3030	2939	2795	2732	2578	2550	2398	2399	2257
7	3097	2933	2822	2648	2570	2401	2356	2197	2182	2040
8	3029	2842	2704	2515	2413	2233	2174	2011	1977	1846
9	2959	2741	2585	2374	2262	2074	2003	1842	1806	1672
10	2887	2649	2468	2248	2117	1927	1840	1689	1640	1519
11	2811	2550	2350	2118	1976	1790	1692	1551	1498	1383
12	2742	2461	2245	2006	1856	1665	1570	1426	1371	1263
13	2666	2365	2136	1890	1734	1550	1447	1314	1257	1156
14	2595	2278	2037	1788	1624	1444	1344	1214	1155	1062
15	2516	2184	1933	1683	1524	1347	1244	1123	1065	979
16	2444	2097	1838	1589	1430	1253	1159	1039	986	903
17	2370	2012	1750	1500	1340	1175	1075	970	911	841
18	2298	1929	1664	1417	1259	1096	1006	901	861	781
19	2221	1848	1583	1338	1183	1030	937	844	812	731

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L122111201.IES

CANDELA TABULATION - (Cont.)

20	2144	1769	1500	1264	1112	964	880	789	746	679
21	2075	1693	1427	1194	1044	909	827	743	700	632
22	2001	1617	1354	1129	986	853	780	694	650	577
23	1934	1545	1288	1065	926	802	735	648	602	518
24	1858	1476	1220	1007	884	759	691	604	551	459
25	1794	1409	1160	953	829	714	649	554	495	374
26	1724	1345	1099	903	801	676	606	506	436	321
27	1656	1283	1041	855	745	634	560	449	374	279
28	1590	1222	990	811	707	594	516	379	320	236
29	1526	1164	937	768	667	553	465	333	267	199
30	1463	1108	895	728	630	511	415	293	228	172
31	1397	1055	846	689	590	466	361	247	193	149
32	1340	1002	806	653	555	419	314	211	169	131
33	1277	955	766	618	515	368	267	182	147	115
34	1222	906	729	584	477	313	231	159	130	102
35	1163	863	690	549	434	284	197	140	114	91
36	1109	818	656	515	392	246	171	124	101	81
37	1058	777	622	480	349	212	151	110	90	73
38	1007	738	589	444	307	185	133	98	81	65
39	958	699	557	406	268	161	118	88	73	58
40	911	665	526	367	233	143	105	79	65	52
41	870	629	495	331	202	126	94	71	59	46
42	826	598	464	296	177	113	85	64	52	41
43	791	565	433	259	155	101	78	57	47	37
44	747	537	401	228	138	91	69	51	42	34
45	707	506	367	198	122	81	62	46	38	30
46	671	479	335	174	108	73	55	41	34	27
47	634	449	300	152	97	65	50	37	31	25
48	600	420	268	133	88	59	45	33	28	22
49	565	393	235	119	78	53	40	30	25	20
50	533	359	207	105	70	47	36	27	23	19
51	502	338	180	94	63	42	33	25	21	17
52	471	310	155	83	56	38	30	23	19	15
53	444	281	137	75	51	35	27	21	17	14
54	414	252	119	66	45	31	24	19	16	13
55	388	224	105	60	41	28	22	17	15	12
56	361	195	94	53	36	26	20	16	13	11
57	337	169	82	47	33	23	19	14	12	10
58	311	146	75	42	29	21	17	13	11	9
59	287	125	64	38	27	19	15	12	10	9
60	262	108	56	33	24	17	14	11	10	8
61	237	93	50	30	22	16	13	10	9	7
62	214	80	44	27	20	14	12	9	8	7
63	189	69	39	24	18	13	11	9	8	6
64	168	60	35	21	16	12	10	8	7	5
65	145	53	31	19	15	11	9	7	6	5
66	124	45	27	17	13	10	8	7	5	4
67	103	40	24	16	12	9	8	6	5	3
68	87	35	21	14	11	8	7	5	4	3
69	73	30	19	13	10	8	6	4	4	3
70	60	26	17	11	9	7	5	4	3	2
71	50	23	15	10	8	6	5	3	3	2
72	42	20	14	9	7	5	4	3	2	2
73	36	18	12	8	7	4	3	2	2	1
74	31	16	11	8	6	4	3	2	2	1
75	26	14	10	7	5	3	3	2	1	1

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : L122111201.IES

CANDELA TABULATION - (Cont.)

76	23	12	9	6	4	3	2	2	1	1
77	19	11	8	5	4	2	2	1	1	1
78	17	9	7	4	3	2	2	1	1	1
79	15	8	6	4	2	2	1	1	1	1
80	13	7	5	3	2	2	1	1	1	1
81	11	6	4	2	2	1	1	1	1	1
82	9	5	3	2	2	1	1	1	1	1
83	8	4	3	2	1	1	1	1	1	1
84	7	3	2	1	1	1	1	1	1	1
85	5	2	2	1	1	1	1	1	1	0
86	4	2	1	1	1	1	1	1	0	0
87	3	2	1	1	1	1	1	0	0	0
88	2	1	1	1	1	0	0	0	0	0
89	1	1	1	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0
91	0	0	0	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0	0	0	0
93	0	0	0	0	0	0	0	0	0	0
94	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0	0	0	0
99	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
101	0	0	0	0	0	0	0	0	0	0
102	0	0	0	0	0	0	0	0	0	0
103	0	0	0	0	0	0	0	0	0	0
104	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0
106	0	0	0	0	0	0	0	0	0	0
107	0	0	0	0	0	0	0	0	0	0
108	0	0	0	0	0	0	0	0	0	0
109	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
111	0	0	0	0	0	0	0	0	0	0
112	0	0	0	0	0	0	0	0	0	0
113	0	0	0	0	0	0	0	0	0	0
114	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0
116	0	0	0	0	0	0	0	0	0	0
117	0	0	0	0	0	0	0	0	0	0
118	0	0	0	0	0	0	0	0	0	0
119	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
121	0	0	0	0	0	0	0	0	0	0
122	0	0	0	0	0	0	0	0	0	0
123	0	0	0	0	0	0	0	0	0	0
124	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0
126	0	0	0	0	0	0	0	0	0	0
127	0	0	0	0	0	0	0	0	0	0
128	0	0	0	0	0	0	0	0	0	0
129	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
131	0	0	0	0	0	0	0	0	0	0

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : L122111201.IES

CANDELA TABULATION - (Cont.)

132	0	0	0	0	0	0	0	0	0	0	0
133	0	0	0	0	0	0	0	0	0	0	0
134	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0
136	0	0	0	0	0	0	0	0	0	0	0
137	0	0	0	0	0	0	0	0	0	0	0
138	0	0	0	0	0	0	0	0	0	0	0
139	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0
141	0	0	0	0	0	0	0	0	0	0	0
142	0	0	0	0	0	0	0	0	0	0	0
143	0	0	0	0	0	0	0	0	0	0	0
144	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0
146	0	0	0	0	0	0	0	0	0	0	0
147	0	0	0	0	0	0	0	0	0	0	0
148	0	0	0	0	0	0	0	0	0	0	0
149	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0
151	0	0	0	0	0	0	0	0	0	0	0
152	0	0	0	0	0	0	0	0	0	0	0
153	0	0	0	0	0	0	0	0	0	0	0
154	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0
156	0	0	0	0	0	0	0	0	0	0	0
157	0	0	0	0	0	0	0	0	0	0	0
158	0	0	0	0	0	0	0	0	0	0	0
159	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0
161	0	0	0	0	0	0	0	0	0	0	0
162	0	0	0	0	0	0	0	0	0	0	0
163	0	0	0	0	0	0	0	0	0	0	0
164	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0
166	0	0	0	0	0	0	0	0	0	0	0
167	0	0	0	0	0	0	0	0	0	0	0
168	0	0	0	0	0	0	0	0	0	0	0
169	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0
171	0	0	0	0	0	0	0	0	0	0	0
172	0	0	0	0	0	0	0	0	0	0	0
173	0	0	0	0	0	0	0	0	0	0	0
174	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0
176	0	0	0	0	0	0	0	0	0	0	0
177	0	0	0	0	0	0	0	0	0	0	0
178	0	0	0	0	0	0	0	0	0	0	0
179	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
 Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	3660	3660	3660	3660	3660	3660	3660
1	3594	3461	3612	3453	3621	3455	3626
2	3359	3262	3358	3253	3355	3246	3356

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : L122111201.IES**

CANDELA TABULATION - (Cont.)

3	3091	2986	3065	2958	3047	2955	3043
4	2811	2680	2761	2633	2730	2608	2721
5	2537	2416	2468	2356	2425	2324	2412
6	2271	2151	2199	2083	2149	2047	2132
7	2050	1926	1959	1853	1905	1815	1889
8	1836	1727	1749	1652	1697	1615	1682
9	1664	1553	1569	1478	1514	1441	1497
10	1497	1401	1402	1328	1355	1292	1338
11	1357	1269	1260	1198	1207	1164	1190
12	1235	1153	1147	1087	1101	1054	1085
13	1122	1052	1039	990	992	960	977
14	1030	964	952	906	909	879	899
15	944	888	873	835	846	809	845
16	875	819	826	769	780	745	768
17	823	762	752	714	716	690	704
18	760	705	699	656	665	630	652
19	705	654	642	600	601	570	586
20	654	596	584	532	535	496	517
21	600	539	519	464	462	424	442
22	543	468	447	366	386	330	366
23	479	387	376	318	317	281	298
24	412	323	310	262	258	232	243
25	347	274	254	214	212	192	201
26	289	229	211	183	179	165	170
27	238	192	177	156	154	141	146
28	202	166	154	136	133	123	127
29	172	143	133	117	116	107	110
30	150	126	117	104	101	94	97
31	130	110	102	91	89	83	85
32	115	97	91	81	83	73	76
33	101	86	83	71	70	65	67
34	90	77	72	63	62	57	59
35	81	68	63	56	54	50	52
36	72	60	56	49	48	44	45
37	64	54	49	44	42	39	40
38	57	48	44	39	37	35	35
39	51	42	39	35	34	31	32
40	45	38	35	31	30	28	28
41	41	34	31	28	27	24	25
42	36	31	28	25	24	22	22
43	33	27	25	22	21	20	20
44	29	25	23	20	19	18	18
45	26	22	21	18	17	16	16
46	24	20	19	16	16	14	14
47	22	18	17	15	14	13	13
48	20	17	15	13	13	11	12
49	18	15	14	12	11	10	11
50	16	14	13	11	10	9	10
51	15	12	11	10	10	9	9
52	14	11	10	9	9	8	8
53	12	11	10	9	8	7	7
54	11	10	9	8	7	7	7
55	11	9	8	7	7	6	6
56	10	8	8	7	6	6	6
57	9	8	7	6	6	5	5
58	8	7	7	6	5	5	5

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : L122111201.IES

CANDELA TABULATION - (Cont.)

59	8	7	6	5	5	4	4
60	7	6	5	4	4	3	3
61	7	5	5	4	3	3	3
62	6	5	4	3	3	2	2
63	5	4	3	3	2	2	2
64	5	3	3	2	2	1	1
65	4	3	2	2	2	1	1
66	3	2	2	1	1	1	1
67	3	2	2	1	1	1	1
68	2	2	1	1	1	1	1
69	2	2	1	1	1	1	0
70	2	1	1	1	1	0	0
71	2	1	1	1	1	0	0
72	1	1	1	1	1	0	0
73	1	1	1	1	1	0	0
74	1	1	1	1	0	0	0
75	1	1	1	1	0	0	0
76	1	1	1	1	0	0	0
77	1	1	1	1	0	0	0
78	1	1	1	0	0	0	0
79	1	1	1	0	0	0	0
80	1	1	1	0	0	0	0
81	1	1	0	0	0	0	0
82	1	1	0	0	0	0	0
83	1	0	0	0	0	0	0
84	1	0	0	0	0	0	0
85	0	0	0	0	0	0	0
86	0	0	0	0	0	0	0
87	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0
91	0	0	0	0	0	0	0
92	0	0	0	0	0	0	0
93	0	0	0	0	0	0	0
94	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0
99	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0
101	0	0	0	0	0	0	0
102	0	0	0	0	0	0	0
103	0	0	0	0	0	0	0
104	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0
106	0	0	0	0	0	0	0
107	0	0	0	0	0	0	0
108	0	0	0	0	0	0	0
109	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0
111	0	0	0	0	0	0	0
112	0	0	0	0	0	0	0
113	0	0	0	0	0	0	0
114	0	0	0	0	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L122111201.IES

CANDELA TABULATION - (Cont.)

115	0	0	0	0	0	0	0
116	0	0	0	0	0	0	0
117	0	0	0	0	0	0	0
118	0	0	0	0	0	0	0
119	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0
121	0	0	0	0	0	0	0
122	0	0	0	0	0	0	0
123	0	0	0	0	0	0	0
124	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0
126	0	0	0	0	0	0	0
127	0	0	0	0	0	0	0
128	0	0	0	0	0	0	0
129	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0
131	0	0	0	0	0	0	0
132	0	0	0	0	0	0	0
133	0	0	0	0	0	0	0
134	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0
136	0	0	0	0	0	0	0
137	0	0	0	0	0	0	0
138	0	0	0	0	0	0	0
139	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0
141	0	0	0	0	0	0	0
142	0	0	0	0	0	0	0
143	0	0	0	0	0	0	0
144	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0
146	0	0	0	0	0	0	0
147	0	0	0	0	0	0	0
148	0	0	0	0	0	0	0
149	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0
151	0	0	0	0	0	0	0
152	0	0	0	0	0	0	0
153	0	0	0	0	0	0	0
154	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0
156	0	0	0	0	0	0	0
157	0	0	0	0	0	0	0
158	0	0	0	0	0	0	0
159	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0
161	0	0	0	0	0	0	0
162	0	0	0	0	0	0	0
163	0	0	0	0	0	0	0
164	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0
166	0	0	0	0	0	0	0
167	0	0	0	0	0	0	0
168	0	0	0	0	0	0	0
169	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L122111201.IES

CANDELA TABULATION - (Cont.)

171	0	0	0	0	0	0	0
172	0	0	0	0	0	0	0
173	0	0	0	0	0	0	0
174	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0
176	0	0	0	0	0	0	0
177	0	0	0	0	0	0	0
178	0	0	0	0	0	0	0
179	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L122111201.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	743.26	N.A.	36.30
0-30	1186.05	N.A.	58.00
0-40	1527.73	N.A.	74.70
0-60	1942.22	N.A.	94.90
0-80	2039.99	N.A.	99.70
0-90	2046.34	N.A.	100.00
10-90	1776.15	N.A.	86.80
20-40	784.47	N.A.	38.30
20-50	1044.45	N.A.	51.00
40-70	486.80	N.A.	23.80
60-80	97.76	N.A.	4.80
70-80	25.46	N.A.	1.20
80-90	6.35	N.A.	0.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2046.34	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	270.19
10-20	473.07
20-30	442.79
30-40	341.68
40-50	259.99
50-60	154.51
60-70	72.31
70-80	25.46
80-90	6.35
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L122111201.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69
5	88	79	72	67	87	78	72	67	76	71	66	74	69	66	73	68	65	64
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55
8	75	65	58	53	74	64	58	53	63	57	53	62	57	53	61	56	53	51
9	71	61	54	50	70	60	54	50	59	54	50	58	53	50	58	53	49	48
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45

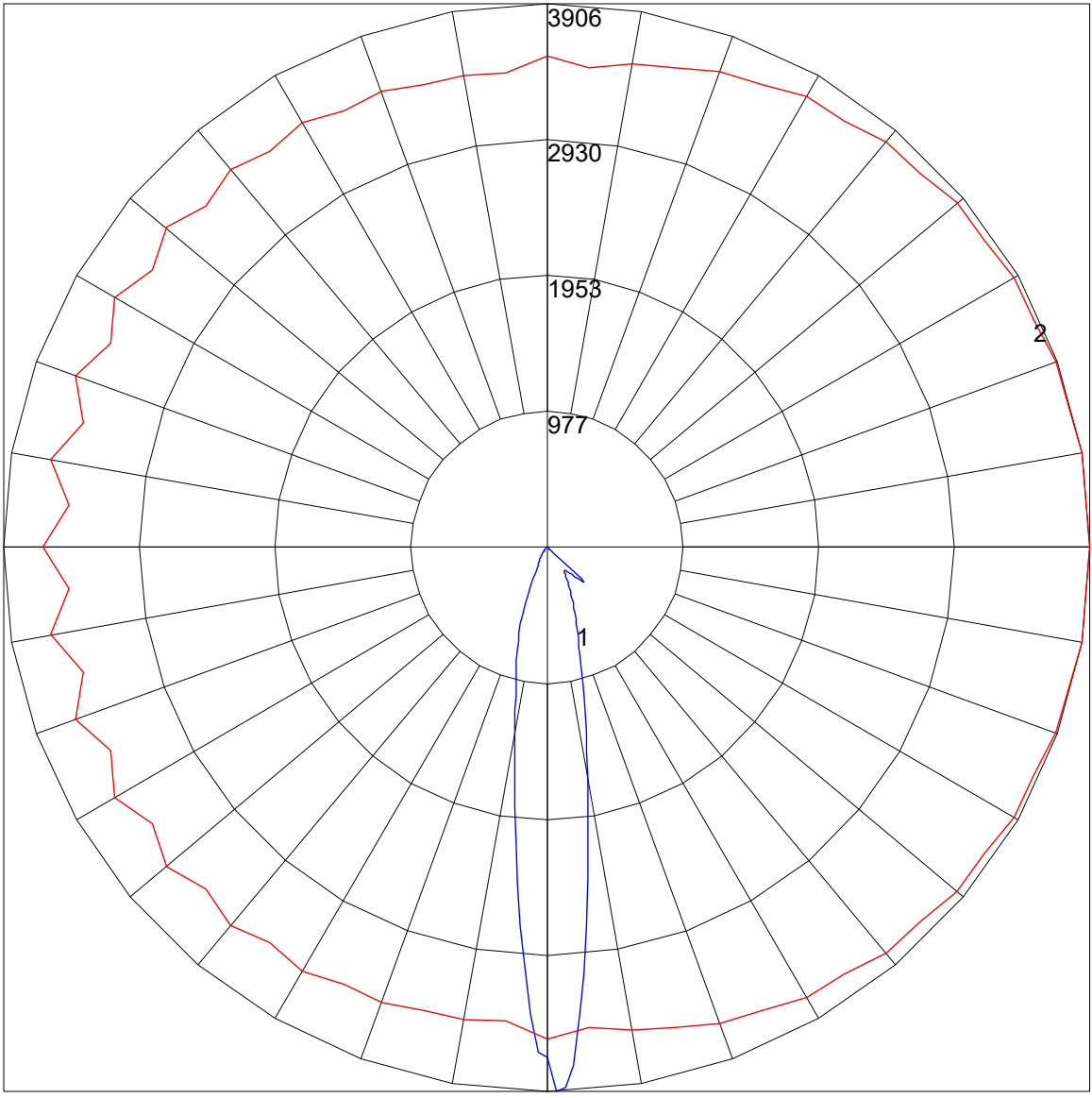
IES INDOOR REPORT
PHOTOMETRIC FILENAME : L122111201.IES

UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	2.6	2.6	2.6	2.6	2.6	14.0	15.3	14.4	15.6	15.9
	3H	2.6	2.6	2.6	2.6	2.6	15.6	16.7	16.0	17.0	17.4
	4H	2.6	2.6	2.6	2.6	2.6	16.1	17.2	16.5	17.5	17.9
	6H	2.6	3.0	2.6	3.3	3.7	16.4	17.4	16.8	17.7	18.1
	8H	2.6	3.5	3.1	3.9	4.3	16.5	17.4	16.9	17.8	18.2
	12H	3.2	4.1	3.7	4.5	4.9	16.5	17.3	16.9	17.7	18.1
4H	2H	2.6	2.6	2.6	2.6	2.6	13.8	14.8	14.2	15.1	15.5
	3H	2.6	2.6	2.6	2.6	2.6	15.4	16.2	15.8	16.6	17.0
	4H	2.6	2.7	2.6	3.1	3.5	15.9	16.6	16.3	17.1	17.5
	6H	3.3	3.9	3.8	4.4	4.8	16.2	16.8	16.6	17.3	17.7
	8H	3.9	4.5	4.4	5.0	5.5	16.2	16.8	16.7	17.3	17.7
	12H	4.7	5.2	5.2	5.7	6.2	16.2	16.8	16.7	17.3	17.7
8H	4H	2.6	2.9	2.8	3.4	3.8	15.8	16.4	16.2	16.8	17.3
	6H	3.9	4.4	4.4	4.9	5.3	16.0	16.5	16.5	17.0	17.5
	8H	4.7	5.1	5.2	5.6	6.1	16.1	16.5	16.6	17.0	17.5
	12H	5.6	6.0	6.1	6.5	7.0	16.1	16.5	16.6	17.0	17.5
12H	4H	2.6	2.9	2.9	3.4	3.9	15.7	16.2	16.2	16.7	17.2
	6H	4.0	4.4	4.5	4.9	5.4	16.0	16.4	16.5	16.9	17.4
	8H	4.9	5.3	5.4	5.8	6.3	16.0	16.4	16.5	16.9	17.5

Maximum UGR = 18.2

POLAR GRAPH



Maximum Candela = 3906 Located At Horizontal Angle = 0, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)