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IES INDOOR REPORT PHOTOMETRIC FILENAME : FAL-7562W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LM-79-08
[TESTLAB] Orb Optronix, Inc.
[ISSUE DATE] 07-18-2019
[MANUFAC] Justice Design
[LUMINAIRE] FAL-7562W
[TOTAL LUMINAIRE LUMENS] 288
[ABSOLUTE LUMENS] 288.010196618072

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	258
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	20
Total Luminaire Watts	12.96
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.29 ft
Luminous Width (90-270)	0.54 ft
Luminous Height	1.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	953	751	492
55	1005	765	471
65	1026	769	447
75	1043	773	423
85	1066	791	418

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	11.553	11.553	11.553	11.553	11.553	11.553	11.553	11.553	11.553	11.553
2.5	12.504	12.432	12.379	12.325	11.894	11.392	11.257	11.428	11.338	11.293
5.0	13.975	13.823	13.581	13.087	12.217	11.553	11.347	11.311	11.266	11.213
7.5	15.742	15.455	14.944	13.446	12.459	11.796	11.356	11.302	11.123	11.123
10.0	17.581	17.303	16.478	14.182	12.737	11.948	11.374	11.105	10.961	11.006
12.5	19.582	19.187	17.949	15.061	12.980	12.110	11.401	10.943	10.836	10.854
15.0	21.501	21.080	19.519	15.994	13.060	12.145	11.329	10.791	10.576	10.647
17.5	23.582	23.134	21.071	16.828	13.338	12.208	11.159	10.441	10.298	10.271
20.0	25.547	25.080	22.766	17.796	13.536	12.244	11.060	10.019	9.903	9.948
22.5	27.547	27.134	24.443	18.711	13.733	12.388	10.908	9.454	9.427	9.427
25.0	29.592	29.135	26.040	19.671	13.859	12.513	10.603	8.853	8.934	8.952
27.5	31.431	31.018	27.601	20.559	14.011	12.531	10.396	8.441	8.539	8.477
30.0	33.234	32.794	28.982	21.331	14.092	12.567	10.055	7.965	8.037	8.145
32.5	34.920	34.517	30.256	22.057	14.092	12.477	9.723	7.337	7.248	7.571
35.0	36.642	36.113	31.574	22.739	14.092	12.352	9.517	6.772	6.548	6.979
37.5	38.436	37.907	32.848	23.340	14.173	12.343	9.203	6.243	5.938	6.512
40.0	40.204	39.701	34.194	24.058	14.217	12.406	9.006	5.875	5.534	6.171
42.5	41.962	41.477	35.557	24.820	14.334	12.343	8.800	5.561	5.131	5.893
45.0	43.639	43.191	36.732	25.582	14.442	12.343	8.692	5.274	4.727	5.633
47.5	45.164	44.626	37.800	26.183	14.397	12.208	8.423	4.996	4.377	5.355
50.0	46.761	46.169	38.822	26.677	14.343	12.190	8.109	4.673	3.974	4.987
52.5	48.277	47.649	39.737	27.036	14.361	11.993	7.903	4.359	3.606	4.673
55.0	49.721	49.138	40.598	27.556	14.334	11.876	7.625	4.117	3.283	4.395
57.5	50.959	50.429	41.459	27.959	14.244	11.751	7.302	3.758	2.933	4.072
60.0	51.972	51.443	42.132	28.211	14.146	11.571	6.988	3.516	2.530	3.830
62.5	52.636	52.026	42.599	28.336	13.912	11.284	6.674	3.310	2.359	3.714
65.0	52.995	52.412	42.760	28.264	13.670	10.899	6.387	3.229	2.198	3.552
67.5	53.641	52.950	43.047	28.220	13.428	10.603	6.135	3.229	1.964	3.471
70.0	54.053	53.363	43.262	28.211	13.267	10.342	5.992	3.229	1.920	3.427
72.5	54.260	53.659	43.478	28.336	13.024	10.100	5.911	3.148	1.758	3.310
75.0	54.538	53.928	43.684	28.300	12.621	9.939	6.028	3.157	1.642	3.238
77.5	54.816	54.161	43.953	28.336	12.432	9.813	6.064	3.113	1.516	3.175
80.0	54.843	54.224	44.114	28.336	12.271	9.759	6.037	2.951	1.283	3.050
82.5	54.798	54.313	44.079	28.300	12.020	9.697	5.938	2.664	0.879	2.879
85.0	54.699	54.116	44.007	28.220	11.760	9.616	5.651	2.512	0.601	2.556
87.5	54.448	53.784	43.845	27.942	11.473	9.454	5.526	2.512	0.601	2.512
90.0	54.143	53.560	43.702	27.735	11.311	9.311	5.543	2.592	0.475	2.521
92.5	53.739	53.192	43.496	27.699	11.464	9.320	5.499	2.556	0.601	2.610
95.0	53.380	52.797	43.298	27.574	11.562	9.365	5.508	2.556	0.718	2.664
97.5	52.779	52.205	42.957	27.421	11.544	9.320	5.615	2.440	0.637	2.592
100.0	52.214	51.649	42.877	27.341	11.544	9.185	5.597	2.556	0.601	2.583
102.5	51.802	51.416	42.805	27.296	11.742	9.149	5.472	2.592	0.718	2.592
105.0	51.353	51.039	42.608	27.260	11.796	9.185	5.203	2.592	0.798	2.592
107.5	50.770	50.474	42.338	27.134	11.930	9.347	5.113	2.431	0.879	2.583
110.0	49.909	49.712	41.755	26.937	12.029	9.535	5.068	2.189	0.870	2.386
112.5	49.012	48.779	41.352	26.614	12.029	9.589	5.077	2.269	0.682	2.225
115.0	48.016	47.756	40.840	26.327	12.092	9.616	5.059	2.234	0.762	2.207
117.5	46.904	46.743	40.230	26.165	12.092	9.607	5.212	2.108	0.718	2.135
120.0	45.989	46.016	39.701	27.062	12.253	9.634	5.490	2.081	0.762	2.117
122.5	45.137	45.191	40.204	28.184	12.818	9.688	5.956	2.207	0.798	2.126
125.0	44.114	44.366	41.890	28.426	12.971	9.616	6.225	2.332	0.924	2.171
127.5	43.083	43.505	45.559	27.359	13.042	9.607	6.297	2.655	1.085	2.368
130.0	42.347	44.168	47.586	26.165	12.845	9.508	6.423	3.077	1.292	2.628
132.5	43.361	46.330	45.882	25.260	12.459	9.410	6.503	3.373	1.624	3.113

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CANDELA TABULATION - (Cont.)

135.0	46.788	50.806	43.289	24.883	12.163	9.356	6.584	3.480	2.189	3.552
137.5	50.950	51.829	41.253	24.560	12.083	9.383	6.629	3.660	2.530	3.732
140.0	50.017	48.994	41.522	23.842	12.136	9.419	6.620	3.812	2.727	3.893
142.5	46.456	45.209	41.980	22.613	11.966	9.275	6.665	4.054	2.969	3.965
145.0	42.679	42.823	35.817	21.277	11.679	9.185	6.629	4.234	3.005	4.126
147.5	41.199	42.778	24.802	19.465	11.213	9.015	6.431	4.279	3.256	4.306
150.0	41.711	40.141	21.707	17.276	10.701	8.737	6.351	4.117	3.005	4.010
152.5	35.073	27.717	20.075	15.276	10.082	8.593	6.189	4.422	3.444	4.359
155.0	21.985	21.133	18.433	13.841	9.167	8.297	6.144	4.637	3.606	4.512
157.5	19.034	19.214	16.747	12.782	8.441	8.073	5.992	4.629	3.875	4.584
160.0	17.061	17.240	14.998	11.580	8.145	7.885	5.113	3.732	3.803	4.162
162.5	14.370	14.540	12.764	10.369	7.409	6.772	4.350	2.431	1.668	2.601
165.0	12.199	12.136	11.195	9.194	6.351	6.082	3.624	1.570	0.888	1.480
167.5	11.643	11.796	10.333	8.109	5.454	5.158	2.386	0.753	0.484	0.861
170.0	10.396	9.831	8.351	6.467	4.449	3.732	1.381	0.314	0.242	0.520
172.5	8.629	7.490	5.911	4.629	3.068	2.305	0.431	0.332	0.278	0.377
175.0	6.127	4.808	3.391	2.888	1.893	1.337	0.323	0.377	0.359	0.377
177.5	2.664	0.879	1.220	1.534	0.511	0.368	0.314	0.341	0.359	0.466
180.0	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	11.553	11.553	11.553	11.553	11.553	11.553	11.553
2.5	11.544	11.365	11.840	11.975	13.105	12.549	12.504
5.0	11.670	11.634	12.083	12.630	14.271	13.895	13.975
7.5	11.706	11.903	12.352	13.303	15.706	15.653	15.742
10.0	11.822	12.163	12.666	14.164	17.258	17.447	17.581
12.5	11.858	12.298	12.989	15.079	18.828	19.420	19.582
15.0	11.787	12.423	13.276	15.949	20.317	21.349	21.501
17.5	11.652	12.540	13.518	16.711	21.905	23.403	23.582
20.0	11.428	12.567	13.679	17.554	23.385	25.439	25.547
22.5	11.069	12.657	13.841	18.362	24.910	27.448	27.547
25.0	10.710	12.675	13.966	19.070	26.417	29.529	29.592
27.5	10.262	12.764	14.164	19.824	27.771	31.431	31.431
30.0	9.813	12.737	14.280	20.604	29.099	33.270	33.234
32.5	9.445	12.764	14.487	21.304	30.381	34.992	34.920
35.0	9.105	12.648	14.451	22.003	31.476	36.544	36.642
37.5	8.746	12.612	14.522	22.586	32.462	38.212	38.436
40.0	8.423	12.531	14.567	23.286	33.261	39.908	40.204
42.5	8.154	12.477	14.729	23.968	34.705	41.657	41.962
45.0	7.840	12.441	14.845	24.802	36.068	43.235	43.639
47.5	7.651	12.316	14.881	25.430	37.333	44.527	45.164
50.0	7.320	12.262	14.962	26.004	38.419	45.917	46.761
52.5	7.050	12.074	14.926	26.596	39.549	47.155	48.277
55.0	6.683	11.912	14.971	27.027	40.517	48.402	49.721
57.5	6.378	11.634	14.890	27.520	41.468	49.496	50.959
60.0	6.153	11.491	14.809	27.816	42.249	50.402	51.972
62.5	5.804	11.195	14.684	28.067	42.805	50.851	52.636
65.0	5.517	10.934	14.603	28.076	43.056	51.183	52.995
67.5	5.364	10.522	14.325	28.157	43.513	51.694	53.641
70.0	5.301	10.253	14.083	28.193	43.792	52.062	54.053
72.5	5.283	9.930	13.886	28.148	43.971	52.277	54.260
75.0	5.265	9.795	13.724	28.130	44.043	52.466	54.538
77.5	5.346	9.813	13.563	28.157	44.294	52.788	54.816
80.0	5.373	9.849	13.446	28.282	44.410	53.040	54.843

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CANDELA TABULATION - (Cont.)

82.5	5.283	9.858	13.285	28.166	44.410	53.201	54.798
85.0	5.113	9.715	13.123	28.058	44.222	53.129	54.699
87.5	5.014	9.544	12.917	27.870	43.872	53.013	54.448
90.0	5.050	9.463	12.773	27.520	43.558	52.851	54.143
92.5	5.086	9.544	12.773	27.296	43.289	52.645	53.739
95.0	5.167	9.571	12.854	27.107	43.029	52.412	53.380
97.5	5.140	9.508	12.845	26.910	42.527	52.017	52.779
100.0	5.131	9.266	12.881	26.605	42.069	51.613	52.214
102.5	5.032	9.221	12.818	26.327	41.558	51.326	51.802
105.0	4.817	9.105	12.809	25.995	41.136	51.578	51.353
107.5	4.664	9.140	12.809	25.690	40.580	51.452	50.770
110.0	4.566	9.365	12.809	25.322	39.988	50.654	49.909
112.5	4.548	9.580	12.728	24.910	39.369	49.694	49.012
115.0	4.440	9.535	12.684	24.461	38.625	48.608	48.016
117.5	4.584	9.571	12.639	23.959	37.961	47.371	46.904
120.0	4.763	9.616	12.576	23.941	37.468	46.375	45.989
122.5	5.077	9.697	13.015	24.210	38.203	45.451	45.137
125.0	5.561	9.697	13.222	24.712	40.320	44.410	44.114
127.5	5.831	9.661	13.383	24.461	43.549	43.289	43.083
130.0	5.839	9.580	13.365	23.735	43.603	43.200	42.347
132.5	5.902	9.463	13.276	22.811	41.352	44.724	43.361
135.0	5.983	9.302	13.159	21.851	39.414	48.447	46.788
137.5	5.911	9.221	12.944	20.810	38.096	50.591	50.950
140.0	6.010	9.060	12.693	19.806	38.679	48.178	50.017
142.5	5.983	8.898	12.343	18.864	39.342	44.563	46.456
145.0	6.037	8.782	12.074	17.796	30.695	41.603	42.679
147.5	5.875	8.459	11.634	16.666	23.089	41.540	41.199
150.0	5.759	8.423	11.033	15.240	21.097	40.858	41.711
152.5	5.669	8.261	10.773	13.841	19.519	31.691	35.073
155.0	5.750	8.019	10.109	12.630	17.976	21.456	21.985
157.5	5.696	7.921	9.185	11.553	16.325	19.483	19.034
160.0	5.337	6.925	8.656	10.387	14.549	17.447	17.061
162.5	4.153	5.552	7.625	9.149	12.065	15.025	14.370
165.0	3.364	5.149	6.683	8.217	10.952	12.531	12.199
167.5	2.422	3.391	5.687	6.835	9.804	11.787	11.643
170.0	1.543	2.467	4.252	5.346	7.822	10.181	10.396
172.5	0.655	1.139	2.655	3.669	5.606	8.387	8.629
175.0	0.404	0.556	1.363	2.045	2.826	5.893	6.127
177.5	0.556	0.520	0.565	0.789	1.184	2.494	2.664
180.0	0.385	0.385	0.385	0.385	0.385	0.385	0.385

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5.55	N.A.	2.10
0-30	13.68	N.A.	5.30
0-40	25.87	N.A.	10.00
0-60	62.55	N.A.	24.20
0-80	110.03	N.A.	42.60
0-90	135.05	N.A.	52.30
10-90	133.82	N.A.	51.80
20-40	20.32	N.A.	7.90
20-50	36.73	N.A.	14.20
40-70	59.64	N.A.	23.10
60-80	47.48	N.A.	18.40
70-80	24.52	N.A.	9.50
80-90	25.02	N.A.	9.70
90-110	47.56	N.A.	18.40
90-120	68.26	N.A.	26.40
90-130	86.82	N.A.	33.60
90-150	115.04	N.A.	44.50
90-180	123.26	N.A.	47.70
110-180	75.69	N.A.	29.30
0-180	258.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.23
10-20	4.32
20-30	8.13
30-40	12.19
40-50	16.41
50-60	20.28
60-70	22.96
70-80	24.52
80-90	25.02
90-100	24.46
100-110	23.10
110-120	20.70
120-130	18.56
130-140	16.41
140-150	11.81
150-160	5.84
160-170	2.09
170-180	0.29

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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	
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	94	87	81	76	86	80	75	70	67	63	59	55	52	49	44	42	40	34
2	83	73	65	58	76	67	60	54	56	50	45	45	41	37	36	33	30	25
3	75	63	54	46	68	58	50	43	48	41	36	39	34	30	30	26	23	19
4	68	55	45	38	62	50	42	35	42	35	29	34	28	24	26	22	19	15
5	62	48	39	32	56	44	36	29	37	30	25	30	24	20	23	19	16	12
6	57	43	33	27	51	39	31	25	33	26	21	26	21	17	21	16	13	10
7	52	38	29	23	47	35	27	21	29	23	18	24	18	15	19	14	11	8
8	48	34	26	20	44	32	24	18	26	20	15	22	16	13	17	13	10	7
9	45	31	23	17	41	29	21	16	24	18	14	20	15	11	15	11	9	6
10	42	28	21	15	38	26	19	14	22	16	12	18	13	10	14	10	8	6

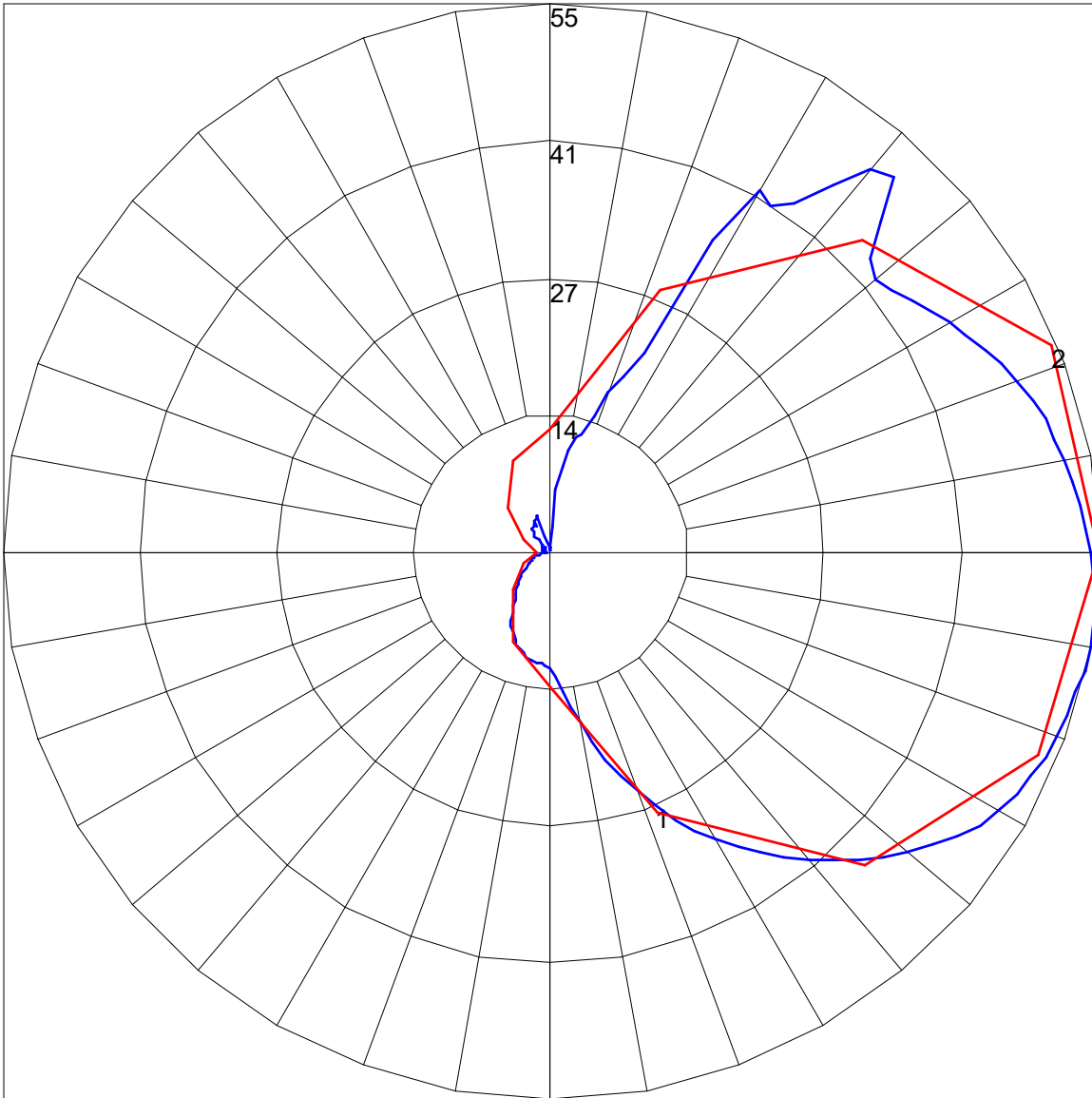
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UGR TABLE - CORRECTED

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	11.8	12.8	12.7	13.8	15.0	4.5	5.6	5.4	6.5	7.7
	3H	15.0	15.9	15.9	16.9	18.1	6.6	7.6	7.5	8.5	9.8
	4H	16.5	17.4	17.4	18.4	19.6	7.6	8.5	8.5	9.5	10.7
	6H	18.0	18.9	19.0	19.8	21.1	8.5	9.3	9.4	10.3	11.6
	8H	18.7	19.6	19.7	20.6	21.8	8.9	9.7	9.8	10.7	12.0
	12H	19.5	20.2	20.4	21.2	22.5	9.3	10.1	10.2	11.1	12.4
4H	2H	12.2	13.1	13.1	14.1	15.3	6.4	7.3	7.4	8.3	9.6
	3H	15.6	16.4	16.5	17.4	18.6	8.7	9.5	9.7	10.5	11.8
	4H	17.3	18.1	18.3	19.1	20.3	9.8	10.5	10.8	11.5	12.8
	6H	19.1	19.7	20.0	20.7	22.0	10.8	11.5	11.8	12.5	13.8
	8H	19.9	20.5	20.9	21.5	22.9	11.3	11.9	12.2	12.9	14.2
	12H	20.8	21.3	21.8	22.4	23.7	11.7	12.2	12.7	13.3	14.6
8H	4H	17.6	18.2	18.5	19.2	20.5	11.2	11.8	12.1	12.8	14.1
	6H	19.6	20.1	20.5	21.1	22.4	12.4	13.0	13.4	14.0	15.3
	8H	20.6	21.1	21.6	22.1	23.4	13.0	13.5	14.0	14.5	15.9
	12H	21.6	22.1	22.6	23.1	24.4	13.6	14.0	14.6	15.0	16.4
12H	4H	17.6	18.2	18.6	19.2	20.5	11.6	12.1	12.6	13.2	14.5
	6H	19.6	20.1	20.6	21.1	22.5	13.0	13.5	14.0	14.5	15.9
	8H	20.7	21.2	21.7	22.2	23.5	13.7	14.1	14.7	15.2	16.5

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 54.843 Located At Horizontal Angle = 0, Vertical Angle = 80
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (80) (Through Max. Cd.)