

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BBXWSEHO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 2023111505
[TESTLAB]
[TESTDATE] 2023-11-15
[ISSUEDATE] 2023-11-15 20:20:04
[LAMPPOSITION] 0,0
[OTHER]
[MANUFAC] BEGHELLI
[LUMCAT] EMERGENCY LIGHTING
[LUMINAIRE] BBXWSEHO
[LAMP] WM8-HO (ONE HEAD ONLY)

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

CHARACTERISTICS

Lumens Per Lamp	726.71 (1 lamp)
Total Lamp Lumens	726.71
Luminaire Lumens	729
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	292
Total Luminaire Watts	2.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.30
Spacing Criterion (90-270)	0.32
Spacing Criterion (Diagonal)	0.26
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.05 m (Diameter)
Luminous Width (90-270)	0.05 m (Diameter)
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25076	17686	21374
55	23356	15988	19846
65	21548	16797	18059
75	21225	19781	17708
85	30642	28317	12430

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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	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514
2.5	7100.622	7136.080	7172.229	7208.998	7246.313	7284.100	7322.284	7360.789	7399.540	7452.455
5.0	6356.984	6427.131	6501.996	6581.526	6665.655	6738.146	6788.782	6843.971	6903.628	6977.748
7.5	4585.087	4673.164	4773.436	4892.162	4965.633	5053.683	5160.361	5228.409	5304.878	5392.492
10.0	2470.449	2554.692	2655.295	2745.838	2840.852	2935.691	3017.122	3113.316	3177.265	3253.163
12.5	1897.797	1972.613	2047.826	2098.574	2143.250	2163.598	2193.077	2157.115	2126.588	2076.825
15.0	1325.155	1387.160	1443.166	1493.842	1514.656	1529.200	1524.181	1496.782	1459.472	1402.514
17.5	752.506	792.644	829.747	862.806	889.824	899.463	898.743	887.289	853.462	829.635
20.0	179.861	189.208	207.681	234.235	265.731	298.634	329.639	352.233	372.957	383.083
22.5	148.957	154.025	159.554	164.006	166.521	167.637	167.065	165.915	164.597	163.304
25.0	118.053	122.228	126.699	130.520	132.348	132.993	132.703	131.915	131.089	129.876
27.5	87.148	90.380	93.757	96.513	98.151	99.037	99.255	99.146	99.641	97.788
30.0	56.244	58.290	60.423	62.452	64.332	65.819	66.859	67.572	67.920	68.717
32.5	52.624	54.175	55.238	55.596	55.275	54.263	52.519	50.129	47.563	45.433
35.0	49.004	50.288	51.110	51.168	50.666	49.409	47.476	44.742	42.545	41.051
37.5	45.384	46.361	46.896	46.732	46.054	44.526	42.374	39.964	37.965	37.032
40.0	41.764	42.396	42.591	42.276	41.373	39.765	37.550	35.352	33.942	33.281
42.5	38.142	38.388	38.262	37.801	36.857	35.030	32.962	31.103	30.164	29.696
45.0	34.830	34.762	34.343	33.669	32.471	30.610	28.613	27.153	26.614	26.258
47.5	32.471	32.386	31.875	31.113	29.831	27.956	25.955	24.518	23.935	23.476
50.0	30.417	30.448	29.962	29.245	28.067	26.341	24.488	23.313	22.652	22.116
52.5	28.363	28.526	28.038	27.411	26.388	24.824	23.097	22.179	21.556	21.141
55.0	26.315	26.598	26.152	25.638	24.791	23.382	21.865	21.080	20.551	20.257
57.5	24.258	24.673	24.262	23.887	23.260	21.993	20.676	20.014	19.608	19.448
60.0	22.212	22.754	22.378	22.191	21.818	20.677	19.538	19.003	18.723	18.684
62.5	20.047	20.633	20.392	20.305	19.952	18.889	18.045	17.736	17.708	17.813
65.0	17.888	18.517	18.421	18.404	17.998	17.001	16.343	16.266	16.415	16.517
67.5	15.728	16.406	16.471	16.501	16.033	15.160	14.696	14.871	15.126	15.235
70.0	13.563	14.296	14.534	14.609	14.089	13.364	13.095	13.542	13.841	13.988
72.5	12.174	12.816	13.022	13.055	12.550	11.865	11.705	12.213	12.467	12.703
75.0	10.791	11.344	11.520	11.523	11.069	10.497	10.375	10.841	11.062	11.263
77.5	9.399	9.866	10.013	10.006	9.603	9.125	9.039	9.440	9.558	9.802
80.0	8.018	8.390	8.513	8.490	8.152	7.756	7.698	8.006	8.098	8.282
82.5	6.629	6.912	7.003	6.974	6.697	6.398	6.359	6.575	6.649	6.762
85.0	5.246	5.430	5.488	5.465	5.264	5.051	5.017	5.137	5.170	5.255
87.5	3.854	3.951	3.980	3.961	3.838	3.704	3.673	3.695	3.703	3.747
90.0	2.472	2.472	2.472	2.448	2.413	2.359	2.325	2.256	2.236	2.236

**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	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514
2.5	7466.068	7485.301	7504.958	7525.001	7553.066	7566.101	7587.080	7608.295	7629.704	7651.266
5.0	7015.412	7051.315	7091.627	7136.249	7236.090	7219.031	7192.156	7167.100	7143.893	7122.573
7.5	5465.518	5527.566	5599.512	5677.363	5720.805	5760.084	5753.314	5744.780	5713.980	5689.068
10.0	3316.801	3368.541	3423.901	3465.288	3504.647	3542.908	3560.210	3576.984	3589.867	3585.221
12.5	2015.582	1941.832	1862.790	1776.482	1689.452	1612.581	1655.569	1694.508	1711.444	1719.746
15.0	1339.267	1267.710	1193.251	1113.214	1044.890	973.483	916.125	858.930	820.651	780.287
17.5	789.763	740.904	699.437	655.422	604.521	586.291	550.538	512.947	480.675	456.026
20.0	385.341	380.722	372.818	364.808	351.632	330.955	317.541	303.516	288.592	277.727
22.5	161.598	158.937	169.397	180.455	186.440	188.950	188.190	184.225	179.453	172.860
25.0	127.723	124.430	120.229	117.038	115.232	111.169	111.947	112.968	111.842	109.892
27.5	95.899	93.501	92.057	90.973	88.609	85.037	80.801	76.446	71.986	70.798
30.0	67.721	68.180	68.690	68.182	66.660	64.461	61.832	58.827	56.230	54.076

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PHOTOMETRIC FILENAME : BBXWSEHO.IES

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32.5	44.296	46.939	49.098	50.489	50.723	50.427	49.366	48.121	46.707	45.504
35.0	40.212	39.744	39.766	39.943	40.610	41.715	41.615	40.624	39.378	39.021
37.5	36.360	36.262	36.422	36.693	37.007	36.752	35.507	34.348	33.982	33.946
40.0	32.891	32.956	33.139	33.433	33.348	32.395	31.156	30.288	29.587	29.495
42.5	29.541	29.630	29.892	30.046	29.504	28.535	27.784	27.243	26.889	26.625
45.0	26.240	26.387	26.645	26.588	25.961	25.442	25.003	24.778	24.565	24.442
47.5	23.253	23.236	23.418	23.486	23.124	22.875	22.748	22.634	22.568	22.480
50.0	21.734	21.434	21.246	21.105	20.765	20.729	20.768	20.767	20.828	20.836
52.5	20.883	20.576	20.329	19.804	19.407	19.241	19.129	19.164	19.285	19.375
55.0	20.073	19.717	19.384	18.812	18.552	18.348	18.178	18.002	18.014	18.002
57.5	19.280	18.878	18.386	17.880	17.780	17.605	17.270	17.068	16.973	16.953
60.0	18.427	18.032	17.441	17.097	17.060	16.773	16.283	16.119	15.983	15.977
62.5	17.526	17.175	16.516	16.376	16.354	15.776	15.312	15.154	15.004	14.908
65.0	16.329	15.816	15.347	15.473	15.508	14.735	14.367	14.170	13.944	13.758
67.5	15.150	14.369	14.099	14.196	14.072	13.577	13.390	13.139	12.846	12.636
70.0	13.792	12.967	12.816	12.879	12.746	12.519	12.382	12.132	11.858	11.637
72.5	12.265	11.632	11.530	11.562	11.571	11.515	11.384	11.194	10.934	10.754
75.0	10.669	10.281	10.175	10.230	10.335	10.352	10.328	10.327	10.057	9.806
77.5	9.189	8.932	8.843	8.891	8.994	8.991	8.965	8.939	8.797	8.661
80.0	7.754	7.592	7.522	7.557	7.637	7.629	7.615	7.568	7.455	7.349
82.5	6.346	6.241	6.201	6.228	6.287	6.275	6.275	6.230	6.142	6.062
85.0	4.964	4.900	4.880	4.938	4.933	4.929	4.943	4.911	4.848	4.797
87.5	3.594	3.569	3.558	3.569	3.588	3.589	3.609	3.608	3.575	3.540
90.0	2.236	2.236	2.236	2.236	2.236	2.246	2.285	2.305	2.305	2.295

**Vert.
Angles**

Horizontal 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	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514
2.5	7683.125	7696.707	7706.775	7716.167	7726.268	7737.063	7748.532	7760.658	7773.420	7786.798
5.0	7103.187	7075.277	7059.764	7034.270	7013.545	6997.582	6986.355	6979.823	6977.928	6980.596
7.5	5670.118	5622.878	5628.745	5617.188	5508.127	5412.932	5326.368	5187.390	5176.545	5108.629
10.0	3576.498	3503.199	3500.324	3411.544	3327.231	3248.284	3182.207	3117.070	3022.040	2940.699
12.5	1722.225	1706.500	1697.922	1688.746	1668.230	1632.672	1588.543	1547.689	1511.074	1427.827
15.0	766.576	771.112	773.950	774.231	752.641	763.414	762.742	755.798	741.885	738.083
17.5	432.783	412.042	394.800	393.628	397.014	400.479	400.199	399.599	400.934	395.323
20.0	265.434	254.057	243.340	233.648	225.680	224.608	224.897	224.378	220.329	214.474
22.5	165.464	160.168	155.543	152.525	151.437	151.393	152.179	150.444	148.518	146.629
25.0	108.389	107.983	108.225	109.773	110.279	111.049	111.326	110.969	108.269	106.069
27.5	73.611	75.691	77.419	77.772	78.250	76.994	74.974	73.143	72.122	70.530
30.0	52.445	53.887	55.665	55.638	55.982	55.597	54.774	54.776	54.271	54.268
32.5	44.689	44.371	44.558	45.429	46.163	46.493	46.660	46.870	46.907	46.950
35.0	38.931	39.254	39.955	40.961	41.948	41.975	41.662	41.320	41.083	41.129
37.5	34.320	35.091	36.071	36.759	36.774	36.205	35.801	35.790	35.938	36.096
40.0	30.171	30.923	31.313	31.222	31.261	31.553	31.836	31.989	32.164	32.263
42.5	26.416	26.725	27.101	27.464	27.862	28.357	28.841	29.073	28.971	29.005
45.0	24.285	24.156	24.135	24.683	25.227	25.621	25.751	25.919	26.269	26.701
47.5	22.439	22.405	22.437	22.477	22.853	23.212	23.424	23.749	24.156	24.431
50.0	20.826	20.882	20.950	21.076	21.082	21.064	21.409	21.704	21.992	22.298
52.5	19.417	19.537	19.678	19.616	19.469	19.503	19.714	20.077	20.517	21.050
55.0	18.188	18.342	18.331	18.248	18.267	18.342	18.496	18.934	19.500	20.105
57.5	17.070	17.136	17.117	17.119	17.120	17.289	17.545	17.682	17.718	18.060
60.0	16.002	15.998	16.027	16.005	16.078	16.208	16.097	15.979	16.102	16.432
62.5	14.849	14.874	14.883	14.912	14.928	14.812	14.699	14.736	15.026	15.599
65.0	13.711	13.750	13.697	13.721	13.631	13.522	13.447	13.639	13.969	14.222
67.5	12.699	12.591	12.542	12.446	12.345	12.250	12.273	12.463	12.771	12.913

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CANDELA TABULATION - (Cont.)

70.0	11.605	11.443	11.409	11.208	11.125	11.120	11.116	11.402	11.657	11.659
72.5	10.570	10.435	10.227	10.048	10.041	9.955	9.971	10.183	10.210	10.375
75.0	9.596	9.556	9.208	8.891	8.888	8.715	8.757	8.673	8.685	8.717
77.5	8.564	8.659	8.097	7.620	7.486	7.376	7.346	7.163	7.038	7.029
80.0	7.298	7.291	6.767	6.358	6.116	5.993	6.015	5.947	5.676	5.354
82.5	6.041	5.943	5.512	5.234	5.043	4.941	4.910	4.949	4.712	4.396
85.0	4.777	4.647	4.345	4.157	4.040	3.956	3.958	3.951	3.750	3.519
87.5	3.509	3.397	3.221	3.120	3.037	3.006	3.011	2.992	2.877	2.761
90.0	2.246	2.177	2.147	2.098	2.078	2.069	2.069	2.069	2.069	2.069

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	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514
2.5	7800.770	7815.314	7830.407	7846.024	7862.142	7878.732	7895.770	7811.167	7727.129	7643.801
5.0	6987.739	6999.254	6985.868	7018.661	7051.645	7084.758	7117.935	6962.466	6807.297	6652.729
7.5	5052.469	5008.478	4977.059	4958.604	4953.491	4962.077	4984.701	4836.571	4701.369	4577.665
10.0	2873.316	2820.137	2781.387	2689.761	2717.830	2746.013	2774.253	2679.016	2583.972	2489.312
12.5	1432.805	1413.741	1402.268	1398.812	1403.797	1417.640	1440.745	1398.986	1365.482	1338.830
15.0	735.740	726.041	720.760	720.238	713.527	731.212	748.935	726.496	704.106	705.099
17.5	388.722	384.616	379.005	375.246	373.735	374.871	379.053	373.027	370.111	369.969
20.0	211.964	208.949	205.686	202.492	196.936	199.649	202.368	200.912	199.460	206.120
22.5	145.237	142.165	142.262	141.100	140.551	140.540	141.372	139.926	139.333	139.625
25.0	104.863	103.985	102.660	101.429	100.158	99.295	100.115	97.160	95.933	95.178
27.5	69.877	69.169	68.235	67.955	67.297	67.011	67.143	65.750	64.744	64.050
30.0	54.114	54.252	54.459	54.286	53.826	53.325	53.318	52.565	52.222	51.823
32.5	47.076	47.128	46.947	46.892	46.568	46.235	46.083	45.657	45.402	45.275
35.0	41.403	41.265	41.210	41.177	41.057	40.806	40.858	40.453	40.324	40.126
37.5	36.263	36.463	36.397	36.397	36.377	36.335	36.430	36.043	35.817	35.772
40.0	32.401	32.620	32.661	32.766	32.873	32.948	33.204	32.832	32.616	32.372
42.5	29.316	29.797	30.241	30.558	30.858	31.001	31.156	30.840	30.546	30.104
45.0	27.198	27.716	28.274	28.751	29.285	29.488	29.688	29.135	28.684	28.074
47.5	24.826	25.368	25.986	26.671	27.410	27.743	27.994	27.462	26.934	26.245
50.0	22.930	23.600	24.295	24.935	25.356	25.503	25.728	25.597	25.423	24.860
52.5	21.744	22.446	23.028	23.491	23.517	23.592	23.665	23.802	23.858	23.745
55.0	20.838	20.883	20.809	21.122	21.526	21.850	22.360	21.622	21.402	21.359
57.5	18.242	18.552	18.885	19.255	19.327	19.209	19.164	19.425	19.563	19.535
60.0	16.907	17.386	17.466	17.543	17.684	17.724	17.868	17.974	18.141	18.274
62.5	15.687	15.749	15.801	15.928	16.090	16.274	16.317	16.399	16.427	16.462
65.0	14.363	14.342	14.544	14.588	14.772	14.938	14.992	15.062	15.056	15.069
67.5	13.055	13.329	13.394	13.469	13.522	13.643	13.687	13.701	13.648	13.765
70.0	11.884	12.029	12.072	12.187	12.162	12.228	12.263	12.259	12.219	12.329
72.5	10.350	10.495	10.632	10.640	10.621	10.688	10.697	10.704	10.598	10.546
75.0	8.776	8.832	8.898	8.971	8.986	9.028	9.003	8.928	8.680	8.513
77.5	7.088	7.087	7.048	7.059	7.009	7.027	7.107	7.035	6.821	6.664
80.0	5.408	5.374	5.356	5.306	5.257	5.201	5.191	5.205	5.055	4.871
82.5	4.101	3.871	3.853	3.809	3.689	3.648	3.541	3.553	3.437	3.306
85.0	3.291	3.034	2.721	2.482	2.402	2.273	2.128	2.075	2.044	1.828
87.5	2.634	2.479	2.310	2.049	1.551	1.286	1.044	0.965	0.816	0.949
90.0	2.039	2.029	2.029	1.995	1.950	1.749	0.089	0.143	0.364	0.552

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	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514
2.5	7561.327	7479.848	7399.507	7320.441	7242.788	7166.685	7092.263	7019.655	6948.989	6880.390

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BBXWSEHO.IES

CANDELA TABULATION - (Cont.)

5.0	6499.059	6387.677	6253.924	6124.617	5999.895	5820.645	5764.758	5654.612	5549.591	5449.826
7.5	4464.028	4359.049	4237.024	4169.621	4082.587	3951.055	3911.340	3828.756	3747.838	3673.984
10.0	2492.803	2445.182	2402.729	2363.588	2325.999	2288.312	2262.374	2248.576	2234.749	2217.351
12.5	1317.639	1300.540	1286.207	1250.846	1278.086	1278.907	1278.605	1276.159	1282.880	1292.037
15.0	699.754	698.306	699.078	703.354	708.013	718.181	727.784	735.436	734.774	754.152
17.5	372.265	375.554	383.094	391.707	400.519	407.752	417.328	427.355	435.020	444.682
20.0	210.354	214.785	219.508	224.632	232.502	240.512	249.793	261.310	269.814	276.518
22.5	140.621	139.687	143.235	144.832	147.599	152.647	158.756	162.435	165.849	169.219
25.0	94.813	94.736	94.265	94.036	94.459	94.861	98.245	100.557	103.810	105.981
27.5	63.280	63.067	62.654	61.948	61.949	63.320	64.969	66.681	68.239	68.392
30.0	51.359	50.855	50.478	50.120	49.784	49.772	49.482	49.893	50.212	50.094
32.5	45.099	45.190	45.064	44.730	44.462	44.310	44.135	43.887	43.503	42.805
35.0	39.966	39.956	40.084	39.822	39.558	39.281	39.224	39.353	39.718	39.216
37.5	35.909	35.962	35.354	34.883	34.624	34.665	34.710	34.718	34.444	34.364
40.0	32.259	32.323	31.906	31.420	30.864	30.361	30.209	30.388	30.422	30.161
42.5	29.633	29.091	28.553	28.066	27.649	27.190	26.949	26.880	26.825	26.753
45.0	27.478	27.010	26.565	26.099	25.614	25.204	24.963	24.753	24.553	24.271
47.5	25.618	25.039	24.600	24.245	23.915	23.706	23.526	23.298	23.053	22.736
50.0	24.254	23.739	23.159	22.577	22.386	22.340	22.198	22.013	21.841	21.745
52.5	23.412	22.908	22.276	21.717	21.310	21.097	20.985	20.854	20.735	20.646
55.0	21.208	21.262	21.476	20.936	20.408	20.066	19.812	19.744	19.631	19.556
57.5	19.420	19.336	19.175	19.094	18.968	18.762	18.750	18.555	18.519	18.475
60.0	18.340	18.332	18.169	17.924	17.631	17.422	17.382	17.425	17.360	17.394
62.5	16.581	16.643	17.317	17.456	16.665	16.192	16.120	16.147	16.195	16.062
65.0	15.185	15.104	15.027	15.119	15.372	15.025	14.807	14.841	14.661	14.424
67.5	13.833	13.841	13.613	13.189	13.083	13.305	13.275	12.986	12.817	12.683
70.0	12.253	12.317	11.919	11.585	11.365	11.274	11.166	11.020	10.853	10.845
72.5	10.378	10.267	10.087	9.846	9.589	9.335	9.180	9.033	8.898	8.946
75.0	8.359	8.284	8.134	7.994	7.683	7.516	7.316	7.147	7.050	7.076
77.5	6.509	6.507	6.291	6.080	5.883	5.690	5.610	5.452	5.349	5.323
80.0	4.804	4.618	4.453	4.262	4.226	4.129	3.959	3.778	3.777	3.956
82.5	3.091	2.899	2.858	2.866	2.799	2.778	2.800	2.832	2.922	3.062
85.0	1.726	1.712	1.733	1.870	1.971	2.050	2.069	2.075	2.122	2.208
87.5	1.042	1.111	1.171	1.237	1.293	1.340	1.350	1.343	1.353	1.382
90.0	0.621	0.650	0.650	0.650	0.650	0.650	0.650	0.616	0.591	0.561

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	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514
2.5	6813.983	6748.665	6682.121	6599.991	6529.810	6461.931	6330.613	6320.991	6273.372	6215.936
5.0	5355.448	5255.857	5171.836	5083.686	5000.033	4921.024	4846.815	4754.851	4707.469	4639.994
7.5	3631.458	3565.062	3533.664	3482.885	3434.146	3387.503	3329.097	3249.562	3240.254	3217.731
10.0	2195.527	2152.537	2180.406	2178.839	2174.847	2165.630	2152.716	2123.796	2109.566	2078.627
12.5	1298.218	1304.395	1312.320	1314.330	1310.985	1300.875	1282.584	1245.627	1268.363	1282.977
15.0	762.604	768.366	769.237	777.414	802.757	827.111	854.776	881.799	906.155	928.533
17.5	454.190	468.721	485.357	504.164	526.758	547.274	565.636	585.419	598.524	623.094
20.0	284.044	292.530	301.983	314.072	326.090	340.354	354.541	368.661	378.498	385.693
22.5	173.444	178.028	182.436	187.821	193.038	197.797	205.633	210.651	213.089	211.630
25.0	107.522	108.261	107.934	107.498	106.984	105.515	103.268	105.956	120.663	131.789
27.5	69.958	69.590	67.369	62.351	58.952	62.487	67.794	74.201	82.266	91.352
30.0	50.361	49.267	48.050	48.770	49.522	50.644	52.505	55.127	58.571	62.414
32.5	41.719	41.106	41.138	41.697	42.545	43.230	43.935	44.959	45.420	45.806
35.0	38.214	37.144	36.128	35.609	35.718	36.870	37.665	38.071	38.454	38.090
37.5	34.107	33.388	32.417	31.505	30.825	30.720	32.040	33.563	34.444	35.320
40.0	29.683	29.271	28.574	27.673	27.472	27.755	28.396	29.885	31.112	31.839

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BBXWSEHO.IES

CANDELA TABULATION - (Cont.)

42.5	26.411	25.789	25.393	25.546	25.754	25.952	26.204	26.759	27.971	28.758
45.0	23.836	23.821	23.920	24.048	24.178	24.366	24.534	24.745	25.160	26.057
47.5	22.660	22.559	22.598	22.655	22.805	22.906	23.058	23.166	23.303	23.675
50.0	21.584	21.510	21.410	21.448	21.520	21.622	21.677	21.770	21.832	21.934
52.5	20.578	20.493	20.424	20.363	20.348	20.422	20.469	20.490	20.616	20.720
55.0	19.501	19.479	19.447	19.390	19.283	19.221	19.342	19.382	19.554	19.662
57.5	18.434	18.418	18.357	18.275	18.163	18.052	18.093	18.351	18.386	18.585
60.0	17.324	17.168	16.999	16.914	16.974	16.918	16.842	17.167	17.337	17.555
62.5	15.911	15.693	15.558	15.485	15.594	15.788	15.715	15.886	16.317	16.453
65.0	14.263	14.185	14.079	14.049	14.131	14.517	14.630	14.602	15.073	14.851
67.5	12.591	12.548	12.581	12.574	12.672	12.892	12.897	12.571	12.740	12.583
70.0	10.898	10.924	10.979	10.882	10.787	10.691	10.630	10.425	10.443	10.334
72.5	9.062	9.258	9.168	9.005	8.828	8.686	8.416	8.184	8.230	8.101
75.0	7.138	7.566	7.570	7.184	6.895	6.815	6.571	6.414	6.735	6.862
77.5	5.314	5.724	6.146	5.786	5.696	5.765	5.588	5.425	5.646	5.817
80.0	4.122	4.469	5.035	4.802	4.671	4.698	4.588	4.438	4.583	4.758
82.5	3.191	3.334	3.842	3.776	3.620	3.628	3.575	3.453	3.539	3.679
85.0	2.290	2.361	2.700	2.692	2.574	2.569	2.546	2.466	2.481	2.607
87.5	1.410	1.437	1.593	1.595	1.527	1.523	1.517	1.475	1.495	1.545
90.0	0.542	0.527	0.512	0.493	0.483	0.483	0.483	0.483	0.483	0.483

**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	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514
2.5	6161.391	6109.835	6061.364	6020.929	5950.645	5895.425	5843.449	5794.793	5749.523	5707.697
5.0	4577.473	4520.043	4467.835	4417.213	4339.200	4275.457	4217.415	4165.124	4102.348	4035.461
7.5	3178.047	3140.893	3108.270	3068.559	3020.422	2978.502	2941.260	2881.241	2832.308	2791.793
10.0	2043.895	2000.650	1957.043	1909.525	1859.477	1814.730	1763.391	1720.283	1677.525	1600.183
12.5	1295.903	1304.962	1311.396	1314.608	1314.940	1304.587	1308.722	1301.154	1292.319	1278.728
15.0	945.990	960.570	969.136	962.515	976.376	973.219	969.393	962.695	953.321	944.113
17.5	638.248	648.906	650.187	656.815	651.389	647.210	637.561	627.157	616.757	604.444
20.0	389.707	390.062	384.564	373.988	359.152	340.149	320.536	300.195	281.837	266.204
22.5	204.120	198.499	203.159	206.177	208.117	209.197	209.078	207.830	206.680	205.648
25.0	141.586	149.978	155.872	159.805	162.309	163.635	165.047	164.564	163.872	163.381
27.5	99.473	106.174	111.629	115.262	117.597	119.061	120.522	121.105	120.690	120.766
30.0	67.149	70.612	72.719	74.211	74.787	75.280	76.125	77.263	77.198	77.954
32.5	45.542	44.385	41.769	43.778	47.213	51.198	55.656	60.361	63.835	66.698
35.0	37.399	37.290	37.784	39.089	41.430	44.454	48.481	52.572	56.094	58.505
37.5	34.958	34.424	34.415	35.166	36.471	39.068	42.034	45.345	48.572	50.556
40.0	32.313	31.854	31.547	31.772	32.559	34.153	36.361	38.743	41.198	42.844
42.5	29.257	29.257	28.866	28.748	29.090	29.893	31.318	32.784	34.267	35.357
45.0	26.382	26.525	26.216	25.998	25.955	26.228	26.836	27.567	28.225	28.840
47.5	23.876	23.779	23.701	23.628	23.558	23.690	24.069	24.545	24.974	25.484
50.0	21.951	22.047	22.021	22.007	22.020	22.131	22.340	22.625	22.948	23.422
52.5	20.809	20.822	20.772	20.627	20.596	20.618	20.707	20.770	20.913	21.366
55.0	19.691	19.670	19.543	19.342	19.192	19.152	19.155	18.991	18.974	19.358
57.5	18.630	18.572	18.365	18.169	17.827	17.722	17.656	17.293	17.050	17.346
60.0	17.635	17.514	17.256	16.987	16.504	16.312	16.197	15.676	15.160	15.352
62.5	16.641	16.497	16.152	15.571	14.958	14.641	14.461	13.971	13.611	13.735
65.0	14.746	14.324	13.850	13.415	12.998	12.662	12.577	12.292	12.116	12.173
67.5	12.364	11.917	11.477	11.200	11.011	10.762	10.695	10.513	10.587	10.630
70.0	10.028	9.521	9.079	8.937	8.958	8.802	8.799	8.693	9.026	9.092
72.5	7.703	7.361	7.115	7.200	7.461	7.466	7.537	7.535	7.895	8.025
75.0	6.694	6.430	6.171	6.214	6.439	6.461	6.561	6.538	6.832	6.982
77.5	5.669	5.466	5.231	5.231	5.424	5.467	5.559	5.535	5.776	5.937

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BBXWSEHO.IES

CANDELA TABULATION - (Cont.)

80.0	4.644	4.501	4.288	4.276	4.428	4.475	4.552	4.539	4.732	4.858
82.5	3.609	3.506	3.342	3.324	3.431	3.480	3.545	3.542	3.686	3.841
85.0	2.567	2.506	2.391	2.377	2.441	2.487	2.536	2.545	2.656	2.793
87.5	1.531	1.496	1.434	1.429	1.465	1.492	1.536	1.545	1.626	1.744
90.0	0.483	0.483	0.483	0.483	0.483	0.503	0.532	0.547	0.601	0.690

**Vert.
Angles**

Horizontal Angles

	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0.0	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514
2.5	5669.368	5634.579	5603.369	5556.531	5513.300	5473.668	5437.621	5405.142	5376.208	5350.795
5.0	3974.396	3919.103	3869.519	3805.541	3746.998	3693.683	3645.385	3627.168	3542.421	3492.402
7.5	2728.476	2675.272	2628.554	2570.559	2518.130	2470.746	2418.924	2370.193	2324.683	2278.001
10.0	1590.138	1571.035	1551.897	1519.849	1487.861	1452.668	1467.930	1453.758	1438.599	1424.455
12.5	1265.149	1244.072	1224.249	1194.981	1173.155	1138.956	1111.103	1081.914	1051.746	1012.659
15.0	929.632	913.637	896.601	872.584	849.679	827.095	803.201	779.216	753.220	724.813
17.5	592.625	580.996	568.961	553.812	539.588	526.101	513.062	499.442	484.932	469.395
20.0	244.599	243.824	241.315	236.390	229.031	237.909	241.073	246.166	252.259	254.407
22.5	204.411	203.443	201.002	197.016	191.062	184.247	179.088	174.580	170.063	163.821
25.0	162.796	162.319	160.684	157.803	152.717	147.517	143.736	140.331	136.294	129.997
27.5	120.918	121.097	120.365	118.270	115.147	112.008	109.729	107.785	104.495	99.609
30.0	77.239	79.389	80.051	79.054	77.086	77.446	77.017	76.778	75.038	72.146
32.5	69.069	70.843	71.395	70.483	68.828	66.919	65.308	63.328	59.908	56.131
35.0	60.713	62.265	62.735	61.866	60.363	58.729	57.403	55.276	51.925	48.633
37.5	52.476	53.733	54.074	53.279	52.048	50.730	49.744	47.394	44.701	41.821
40.0	44.327	45.159	45.418	44.634	43.737	42.881	41.911	39.982	37.774	35.638
42.5	36.290	36.805	36.763	36.203	35.579	35.192	34.429	33.016	31.609	30.072
45.0	29.394	29.618	29.417	28.941	28.553	28.339	27.757	26.743	25.796	25.141
47.5	25.979	26.186	25.995	25.505	25.055	24.781	24.063	23.178	22.353	21.760
50.0	23.848	24.014	23.876	23.345	22.831	22.562	21.858	21.023	20.274	19.755
52.5	21.726	21.883	21.749	21.236	20.599	20.358	19.696	18.900	18.232	17.817
55.0	19.626	19.725	19.631	19.116	18.402	18.158	17.566	16.825	16.245	15.942
57.5	17.532	17.570	17.514	16.955	16.189	15.967	15.464	14.782	14.309	14.153
60.0	15.373	15.396	15.396	14.796	13.909	13.809	13.390	12.765	12.410	12.436
62.5	13.823	14.077	14.127	13.398	12.361	12.121	11.689	11.042	10.802	10.871
65.0	12.201	12.734	12.854	11.983	10.738	10.492	10.079	9.499	9.347	9.343
67.5	10.578	11.379	11.582	10.568	9.098	8.875	8.440	7.948	7.899	7.829
70.0	8.910	10.006	10.313	9.135	7.402	7.272	6.830	6.417	6.460	6.244
72.5	7.902	8.848	9.131	8.085	6.577	6.418	5.974	5.580	5.565	5.253
75.0	6.877	7.683	7.949	7.039	5.746	5.623	5.225	4.903	4.919	4.595
77.5	5.849	6.530	6.767	5.996	4.918	4.832	4.488	4.239	4.258	3.974
80.0	4.807	5.368	5.585	4.965	4.095	4.012	3.759	3.583	3.594	3.336
82.5	3.806	4.225	4.403	3.939	3.297	3.257	3.043	2.923	2.939	2.728
85.0	2.786	3.077	3.221	2.915	2.495	2.474	2.329	2.263	2.287	2.138
87.5	1.764	1.930	2.039	1.898	1.698	1.694	1.619	1.599	1.635	1.555
90.0	0.749	0.788	0.857	0.877	0.896	0.916	0.916	0.941	0.985	0.985

**Vert.
Angles**

Horizontal Angles

	<u>200.0</u>	<u>202.5</u>	<u>205.0</u>	<u>207.5</u>	<u>210.0</u>	<u>212.5</u>	<u>215.0</u>	<u>217.5</u>	<u>220.0</u>	<u>222.5</u>
0.0	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514
2.5	5328.873	5310.414	5321.256	5257.389	5232.180	5210.211	5191.451	5165.426	5109.608	5154.208
5.0	3445.945	3402.757	3358.390	3313.170	3270.068	3228.858	3189.358	3161.003	3131.246	3108.704
7.5	2232.453	2188.511	2144.514	2100.478	2057.123	2020.604	1976.797	1932.083	1912.936	1902.221
10.0	1403.903	1382.664	1358.864	1332.778	1305.096	1280.078	1254.018	1234.185	1202.545	1176.011
12.5	984.477	948.051	912.304	877.021	843.682	812.720	782.081	750.745	736.326	719.877

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BBXWSEHO.IES

CANDELA TABULATION - (Cont.)

15.0	701.682	659.000	638.225	610.979	583.537	555.315	528.299	505.970	477.835	459.702
17.5	453.163	436.653	415.833	399.800	379.973	360.192	340.962	323.453	306.087	291.535
20.0	254.634	252.232	247.076	242.027	230.539	220.883	210.765	201.187	188.657	177.592
22.5	156.084	147.432	138.070	128.340	125.330	124.090	120.991	116.941	112.622	107.979
25.0	123.094	115.177	106.867	98.359	89.884	81.903	75.301	69.625	67.294	66.434
27.5	94.569	87.705	81.197	74.559	68.346	63.086	58.582	54.345	50.642	47.912
30.0	68.863	65.292	60.870	56.777	53.143	49.748	46.556	43.690	41.940	40.929
32.5	52.545	48.863	45.718	44.084	42.341	40.202	38.041	37.067	36.011	35.667
35.0	45.421	42.359	39.821	37.699	35.631	33.544	32.377	31.542	31.400	31.483
37.5	39.073	36.735	34.769	32.966	31.095	29.998	28.642	28.084	27.640	27.716
40.0	33.599	31.856	30.362	28.802	27.586	26.506	25.915	25.471	25.227	25.039
42.5	28.785	27.601	26.455	25.315	24.515	23.861	23.417	23.133	22.960	22.813
45.0	24.520	23.829	23.063	22.540	21.923	21.491	21.116	20.969	20.853	20.858
47.5	21.279	20.789	20.306	19.977	19.608	19.216	19.024	18.944	18.940	19.048
50.0	19.261	18.809	18.474	18.083	17.518	17.199	17.130	17.062	17.159	17.276
52.5	17.445	17.148	16.918	16.426	15.925	15.651	15.545	15.435	15.455	15.616
55.0	15.730	15.629	15.351	14.806	14.383	14.270	14.196	14.099	14.080	14.353
57.5	14.107	14.185	13.741	13.243	12.975	12.932	12.857	12.778	13.007	13.253
60.0	12.586	12.724	12.179	11.758	11.645	11.662	11.522	11.637	11.932	11.911
62.5	11.088	11.167	10.648	10.353	10.361	10.376	10.266	10.653	10.554	10.355
65.0	9.408	9.252	8.868	8.769	8.910	8.930	9.111	9.563	8.999	8.592
67.5	7.642	7.375	7.147	7.151	7.326	7.329	7.697	7.927	7.384	7.067
70.0	5.839	5.569	5.484	5.560	5.752	5.811	6.197	6.243	6.001	6.012
72.5	4.701	4.352	4.202	4.153	4.139	4.327	4.635	4.786	4.847	4.983
75.0	4.124	3.850	3.733	3.698	3.656	3.694	3.771	3.821	3.908	3.924
77.5	3.575	3.362	3.259	3.235	3.194	3.237	3.293	3.337	3.395	3.402
80.0	3.038	2.873	2.798	2.783	2.740	2.777	2.813	2.844	2.886	2.884
82.5	2.511	2.391	2.343	2.325	2.284	2.314	2.322	2.349	2.378	2.373
85.0	1.995	1.923	1.883	1.871	1.828	1.850	1.824	1.849	1.866	1.862
87.5	1.486	1.449	1.433	1.414	1.377	1.383	1.348	1.344	1.352	1.352
90.0	0.985	0.985	0.985	0.955	0.926	0.916	0.867	0.837	0.837	0.837

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514
2.5	5148.104	5145.158	5145.380	5148.794	5189.479	5152.750	5158.957	5168.714	5182.111	5199.245
5.0	3086.814	3065.585	3045.086	3025.455	3065.479	3011.140	3008.754	3008.846	3011.715	2993.590
7.5	1861.229	1835.679	1808.338	1779.372	1756.213	1736.203	1716.789	1697.523	1678.815	1661.176
10.0	1158.813	1126.575	1103.562	1079.958	1058.797	1038.357	1018.001	998.020	990.879	966.922
12.5	701.253	683.916	668.584	651.829	634.937	616.979	597.541	585.796	561.734	546.340
15.0	434.658	414.228	400.968	387.329	372.412	357.283	341.583	329.911	318.529	306.251
17.5	275.877	259.062	245.381	233.445	223.027	212.374	204.242	190.527	180.530	172.202
20.0	167.346	159.146	150.437	142.237	134.398	127.046	120.733	115.080	111.026	107.412
22.5	103.054	97.577	92.367	87.288	83.071	79.474	76.609	73.941	71.342	71.160
25.0	64.747	62.805	61.174	59.778	58.042	56.036	54.736	53.516	53.030	52.482
27.5	46.528	46.789	46.827	46.487	46.110	45.910	45.761	45.566	45.454	45.418
30.0	40.372	40.200	40.398	40.784	40.959	41.002	40.934	40.889	40.974	41.050
32.5	35.720	36.028	36.487	36.950	37.231	36.885	36.643	36.391	36.175	35.965
35.0	31.817	32.262	32.602	32.649	32.609	32.272	31.623	31.171	31.218	31.485
37.5	28.081	28.354	28.570	28.593	28.242	27.807	27.680	27.781	28.244	28.808
40.0	24.889	25.059	25.369	25.427	25.545	25.774	25.827	25.875	26.035	26.294
42.5	22.838	22.993	23.335	23.946	24.198	23.921	23.650	23.584	23.840	24.304
45.0	20.996	21.316	22.068	22.358	21.815	21.382	21.382	21.712	22.170	22.739
47.5	19.280	19.935	20.156	19.814	19.496	19.334	19.575	19.803	20.296	20.870
50.0	17.763	18.166	18.132	17.990	17.721	17.677	17.458	17.741	18.399	19.305

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BBXWSEHO.IES

CANDELA TABULATION - (Cont.)

52.5	16.186	16.558	16.631	16.168	16.066	15.884	15.903	16.109	16.634	17.342
55.0	14.885	15.385	14.789	14.612	14.470	14.375	14.506	14.705	14.967	15.312
57.5	13.650	13.521	13.177	13.185	12.925	12.970	13.137	13.245	13.200	13.344
60.0	11.982	11.613	11.728	11.529	11.494	11.661	11.674	11.542	11.611	11.863
62.5	10.090	10.209	10.132	10.055	10.194	10.196	10.023	9.961	10.221	10.386
65.0	8.607	8.772	8.710	8.735	8.866	8.663	8.554	8.708	8.659	8.346
67.5	7.296	7.373	7.333	7.476	7.401	7.383	7.382	7.323	7.059	7.047
70.0	6.157	6.164	6.127	6.188	6.133	6.217	6.143	5.888	5.844	5.759
72.5	5.070	5.057	5.141	5.055	5.109	5.050	4.837	4.722	4.834	4.781
75.0	4.055	4.051	4.173	4.102	4.188	4.060	3.783	3.788	4.045	3.966
77.5	3.387	3.342	3.314	3.183	3.295	3.209	3.034	3.046	3.226	3.039
80.0	2.854	2.847	2.762	2.669	2.664	2.552	2.303	2.157	2.269	2.212
82.5	2.333	2.348	2.242	2.169	2.130	2.028	1.799	1.650	1.634	1.508
85.0	1.830	1.838	1.745	1.675	1.614	1.520	1.344	1.246	1.203	1.078
87.5	1.336	1.330	1.259	1.180	1.115	1.041	0.920	0.846	0.778	0.691
90.0	0.837	0.828	0.768	0.685	0.621	0.572	0.512	0.458	0.374	0.320

Vert. Angles **Horizontal Angles**

	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514
2.5	5220.220	5245.146	5274.135	5307.302	5344.763	5386.634	5433.027	5484.050	5539.808	5530.488
5.0	3027.147	3040.466	3058.068	3080.391	3107.885	3141.013	3180.244	3226.047	3278.888	3265.249
7.5	1663.992	1643.954	1637.339	1643.239	1648.243	1657.491	1671.499	1690.785	1715.865	1704.428
10.0	950.025	934.682	921.291	910.271	902.055	897.093	895.838	898.751	906.289	899.026
12.5	531.939	517.000	509.887	492.230	484.169	478.440	475.210	474.639	476.888	471.348
15.0	298.775	284.830	276.539	267.426	259.663	253.566	249.337	247.170	247.265	245.075
17.5	166.574	160.846	155.881	154.172	150.901	149.935	149.803	150.463	151.873	151.319
20.0	106.285	106.234	105.736	106.000	106.383	106.784	107.759	109.309	111.433	111.314
22.5	71.682	71.645	72.125	72.046	72.487	72.845	73.485	74.528	76.032	76.162
25.0	53.020	53.392	54.093	54.401	54.942	55.531	56.201	57.059	58.125	58.213
27.5	45.539	46.013	46.629	47.235	47.853	48.221	48.680	49.262	49.974	50.002
30.0	41.239	41.391	41.700	42.107	42.628	43.219	43.861	44.606	45.468	45.521
32.5	35.976	36.158	36.605	37.262	38.013	38.869	39.786	40.772	41.858	41.890
35.0	31.934	32.435	33.043	33.730	34.305	34.960	35.707	36.574	37.548	37.791
37.5	29.352	29.716	30.055	30.468	30.982	31.594	32.285	33.025	33.933	34.352
40.0	26.579	27.025	27.472	27.915	28.338	28.725	29.288	30.171	31.185	31.520
42.5	24.734	25.159	25.660	26.149	26.372	26.269	26.333	26.908	27.664	28.128
45.0	23.316	23.647	24.006	24.470	24.925	24.513	24.245	24.488	24.970	25.294
47.5	21.722	22.330	22.734	23.156	23.599	23.215	22.614	22.843	23.458	23.199
50.0	20.149	20.897	21.066	21.364	21.858	21.796	21.091	21.445	22.330	21.575
52.5	18.056	18.706	19.179	19.487	19.624	19.778	20.247	20.554	20.483	19.714
55.0	15.866	16.801	17.824	18.022	17.928	17.874	18.484	18.926	19.020	18.631
57.5	13.991	14.897	15.774	16.215	16.002	15.921	16.645	17.472	17.243	17.253
60.0	12.103	12.432	13.193	14.172	14.281	14.529	14.996	15.523	15.474	14.683
62.5	9.854	9.859	10.918	11.747	12.308	12.747	13.303	12.715	13.352	13.479
65.0	8.411	8.622	9.323	10.071	9.896	10.066	10.135	10.081	10.500	11.766
67.5	7.112	7.605	8.569	9.105	8.926	9.051	8.594	7.908	8.604	8.777
70.0	5.807	6.486	7.218	7.427	7.677	7.874	6.678	6.508	6.107	6.217
72.5	4.702	4.889	5.310	5.634	6.030	5.738	5.031	4.794	4.433	4.651
75.0	3.777	3.869	4.299	4.673	4.701	4.042	3.592	3.510	3.191	3.437
77.5	2.967	3.122	3.343	3.050	3.090	2.714	2.370	2.281	2.251	2.431
80.0	2.180	2.216	2.305	2.302	1.979	1.659	1.550	1.499	1.478	1.552
82.5	1.414	1.413	1.569	1.446	1.108	0.882	0.861	0.782	0.872	0.832
85.0	0.951	0.846	0.846	0.714	0.555	0.483	0.374	0.408	0.453	0.482
87.5	0.590	0.538	0.498	0.396	0.238	0.156	0.165	0.062	0.163	0.204

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BBXWSEHO.IES

CANDELA TABULATION - (Cont.)

90.0 0.266 0.246 0.227 0.227 0.227 0.237 0.187 0.133 0.020 1.113

Vert. Angles Horizontal Angles

	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514
2.5	5525.953	5526.149	5531.014	5540.481	5554.472	5572.905	5595.694	5622.743	5653.956	5689.231
5.0	3259.181	3260.742	3269.981	3286.925	3311.589	3343.967	3384.040	3431.769	3487.096	3549.950
7.5	1699.197	1700.061	1706.901	1719.587	1737.982	1761.943	1810.221	1835.313	1891.973	1955.416
10.0	896.539	898.521	904.660	914.642	928.158	944.900	964.568	986.876	1013.612	1026.196
12.5	468.620	468.535	470.922	475.609	489.767	493.875	504.555	513.729	523.742	542.263
15.0	245.065	246.973	250.471	255.336	261.284	264.771	272.723	275.021	280.057	283.056
17.5	151.416	152.112	153.353	156.381	156.801	159.206	161.266	161.673	163.345	164.961
20.0	111.757	112.747	114.275	115.419	116.409	118.015	117.943	118.733	120.567	120.886
22.5	76.784	77.839	79.165	79.870	81.335	81.750	83.331	83.424	85.220	87.170
25.0	58.544	59.133	59.552	59.835	60.036	59.609	59.582	59.365	60.106	60.739
27.5	50.160	50.440	50.523	50.443	50.201	49.890	49.742	49.574	49.618	49.642
30.0	45.678	45.856	45.829	45.564	45.263	44.995	44.492	44.190	44.143	44.133
32.5	42.021	42.048	41.877	41.552	41.374	40.863	40.037	39.350	38.892	38.848
35.0	38.144	38.333	38.281	38.184	37.785	36.800	35.945	35.194	34.626	34.041
37.5	34.876	35.068	34.899	34.749	34.057	33.167	32.366	31.603	30.895	30.282
40.0	31.953	31.909	31.510	31.193	30.418	29.597	28.722	27.916	27.240	26.998
42.5	28.580	28.558	28.151	27.638	26.985	26.353	25.720	25.005	24.387	24.001
45.0	25.565	25.424	25.212	24.777	24.421	23.792	23.135	22.543	22.151	21.788
47.5	23.032	22.985	22.860	22.447	22.118	21.732	21.268	20.951	20.350	19.745
50.0	21.177	21.335	21.289	20.981	20.681	20.294	19.599	18.982	18.785	18.498
52.5	19.219	19.144	18.901	18.658	18.535	18.476	17.916	17.218	16.527	16.453
55.0	17.780	17.080	17.015	17.023	16.811	15.982	15.479	15.327	14.877	14.791
57.5	16.515	15.371	15.220	15.395	14.964	14.015	13.316	13.003	13.026	13.062
60.0	14.450	13.827	13.159	12.727	12.468	12.242	11.583	11.060	11.131	11.211
62.5	12.890	12.061	11.379	11.001	10.558	10.216	10.012	9.957	9.393	9.398
65.0	11.749	10.472	9.413	9.313	9.061	8.905	8.486	8.224	8.230	7.863
67.5	8.856	8.349	8.053	8.164	7.963	7.602	7.391	6.937	6.752	7.148
70.0	6.784	7.398	7.009	7.025	6.996	6.637	6.255	6.130	6.011	6.275
72.5	4.943	5.571	5.797	5.547	5.312	5.604	5.474	5.346	5.419	5.498
75.0	3.607	4.058	4.725	4.358	4.217	4.213	4.739	4.560	4.684	4.848
77.5	2.479	2.816	3.024	3.152	3.334	3.547	3.939	3.780	3.927	4.204
80.0	1.648	1.790	1.967	2.457	2.701	2.858	3.151	3.246	3.284	3.589
82.5	0.976	1.077	1.477	1.898	2.152	2.235	2.449	2.593	2.767	3.052
85.0	0.556	1.000	1.269	1.462	1.702	1.867	2.026	2.197	2.352	2.576
87.5	0.799	0.998	1.177	1.327	1.504	1.623	1.724	1.853	1.972	2.126
90.0	1.152	1.212	1.271	1.300	1.359	1.409	1.478	1.522	1.615	1.724

Vert. Angles Horizontal Angles

	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514
2.5	5728.461	5771.539	5863.948	5866.577	5911.645	5959.784	6010.897	6064.883	6121.642	6181.070
5.0	3620.237	3697.849	3858.678	3878.399	3991.562	4111.117	4236.821	4368.428	4505.691	4685.830
7.5	2025.463	2104.365	2151.588	2217.097	2305.540	2396.543	2489.831	2620.430	2708.713	2844.039
10.0	1057.183	1089.873	1123.948	1158.950	1195.348	1228.574	1273.549	1306.801	1353.883	1416.393
12.5	550.010	564.649	576.294	585.500	593.526	598.672	607.448	616.335	618.236	626.206
15.0	285.299	289.427	290.982	291.765	292.083	298.237	319.698	344.833	365.305	394.561
17.5	166.759	165.559	166.887	173.147	181.817	191.687	202.472	214.930	228.402	246.628
20.0	121.154	120.835	120.803	121.658	123.509	127.669	132.716	140.853	149.244	158.255
22.5	88.972	90.182	90.675	90.681	90.676	90.697	92.005	94.560	99.029	103.965

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BBXWSEHO.IES

CANDELA TABULATION - (Cont.)

25.0	62.218	63.758	65.125	66.072	66.268	65.709	64.744	64.275	65.119	69.225
27.5	49.514	49.210	49.368	49.488	49.157	48.032	46.963	48.209	50.034	52.912
30.0	44.036	43.650	42.903	41.755	40.876	40.822	41.006	41.503	42.360	43.687
32.5	39.194	39.814	40.017	38.808	37.561	36.571	36.263	36.403	36.872	37.544
35.0	33.605	33.689	34.309	34.699	34.209	33.247	32.414	31.990	32.094	32.579
37.5	29.902	29.584	29.294	29.295	29.453	29.204	28.565	28.070	28.181	28.700
40.0	26.823	26.529	26.183	25.808	25.455	25.124	25.056	25.196	25.511	25.924
42.5	23.913	23.889	23.584	23.115	22.781	22.712	22.778	22.978	23.121	23.428
45.0	21.368	21.135	21.172	21.131	20.905	20.811	20.732	20.796	20.993	21.158
47.5	19.314	18.973	18.871	19.026	19.110	18.980	18.880	18.845	18.923	19.080
50.0	17.778	17.292	17.143	17.022	17.102	17.173	17.127	17.023	16.995	17.124
52.5	16.501	15.942	15.477	15.396	15.282	15.306	15.310	15.337	15.341	15.429
55.0	14.612	14.520	14.070	13.724	13.729	13.589	13.690	13.878	14.139	14.348
57.5	13.152	13.091	12.643	12.206	12.152	12.369	12.462	12.708	13.026	13.243
60.0	11.297	11.628	11.535	11.096	11.042	11.196	11.408	11.582	11.867	12.178
62.5	9.590	9.814	10.596	10.283	10.125	10.137	10.350	10.507	10.781	11.105
65.0	8.144	8.676	9.118	9.750	9.253	9.190	9.281	9.487	9.713	10.035
67.5	7.178	7.538	8.131	8.429	8.459	8.313	8.344	8.466	8.634	8.851
70.0	6.500	6.662	6.983	7.555	7.550	7.484	7.485	7.514	7.588	7.691
72.5	5.848	5.971	6.104	6.598	6.619	6.636	6.647	6.647	6.612	6.605
75.0	5.082	5.244	5.338	5.511	5.728	5.759	5.835	5.861	5.777	5.788
77.5	4.359	4.477	4.622	4.735	4.900	5.040	5.141	5.274	5.220	5.224
80.0	3.763	3.803	4.034	4.171	4.334	4.437	4.532	4.676	4.662	4.669
82.5	3.257	3.300	3.489	3.625	3.777	3.863	3.958	4.089	4.107	4.124
85.0	2.752	2.821	2.972	3.102	3.243	3.304	3.387	3.502	3.550	3.583
87.5	2.256	2.348	2.475	2.591	2.734	2.760	2.826	2.924	2.987	3.042
90.0	1.793	1.882	2.000	2.093	2.226	2.221	2.275	2.354	2.423	2.502

**Vert.
Angles**

Horizontal Angles

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514	7501.514
2.5	6249.954	6307.518	6374.325	6443.377	6559.679	6578.092	6630.733	6684.960	6740.676	6797.783
5.0	4798.110	4872.944	4986.680	5104.534	5226.518	5344.725	5457.209	5574.086	5695.415	5878.283
7.5	2954.348	3072.396	3175.287	3294.116	3413.845	3529.650	3642.103	3759.063	3878.009	3990.226
10.0	1452.487	1508.202	1558.930	1630.329	1694.473	1759.873	1828.652	1895.050	1964.671	2037.990
12.5	664.655	715.077	768.489	831.763	902.651	982.367	1070.990	1166.017	1279.520	1372.645
15.0	418.722	446.863	484.853	523.597	569.249	621.594	689.312	749.888	823.527	904.582
17.5	263.170	282.793	302.499	321.892	346.364	372.065	399.311	432.844	471.483	513.115
20.0	167.472	177.221	186.260	195.908	199.428	203.122	204.292	202.553	200.312	194.351
22.5	108.614	112.327	114.276	114.801	118.050	120.408	121.885	122.485	122.716	123.869
25.0	75.433	80.618	86.093	90.656	93.989	96.371	97.979	98.791	98.865	99.142
27.5	57.101	61.611	65.733	69.706	72.632	74.251	76.062	75.725	75.593	75.319
30.0	45.447	47.845	50.397	52.514	54.494	55.505	54.265	53.580	52.792	51.957
32.5	38.314	39.286	39.898	39.907	39.470	41.039	41.254	41.754	42.798	43.797
35.0	33.007	33.863	34.762	35.243	35.792	37.036	38.050	38.364	39.375	40.362
37.5	29.620	30.490	31.370	32.151	32.661	33.376	34.794	35.188	35.920	36.979
40.0	26.470	27.339	28.090	29.039	29.640	30.155	31.093	31.994	32.580	33.634
42.5	23.785	24.392	25.146	25.897	26.688	27.225	27.791	28.755	29.398	30.315
45.0	21.410	21.772	22.384	23.023	23.754	24.325	24.774	25.476	26.207	27.155
47.5	19.270	19.447	19.839	20.380	21.083	21.831	22.452	23.056	24.027	25.055
50.0	17.296	17.527	17.874	18.597	19.386	20.291	20.991	21.641	22.534	23.543
52.5	15.861	16.185	16.587	17.293	18.166	18.947	19.617	20.276	21.100	22.039
55.0	14.721	14.997	15.379	15.990	16.968	17.731	18.329	18.952	19.737	20.571
57.5	13.532	13.913	14.197	14.728	15.702	16.610	17.123	17.660	18.351	19.151
60.0	12.458	12.876	13.069	13.550	14.443	15.536	15.979	16.425	17.034	17.747

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BBXWSEHO.IES

CANDELA TABULATION - (Cont.)

62.5	11.411	11.816	12.021	12.398	13.178	14.305	14.577	14.781	15.261	15.966
65.0	10.343	10.623	10.847	10.968	11.495	12.402	12.695	12.878	13.262	14.061
67.5	9.059	9.284	9.539	9.575	9.925	10.584	10.834	11.002	11.281	12.199
70.0	7.892	8.023	8.227	8.257	8.454	8.908	9.013	9.127	9.343	10.360
72.5	6.721	6.808	6.910	7.064	7.226	7.621	7.801	7.950	8.222	9.225
75.0	5.927	6.075	6.246	6.411	6.526	6.850	7.082	7.149	7.393	8.266
77.5	5.336	5.459	5.601	5.768	5.833	6.100	6.307	6.369	6.573	7.204
80.0	4.736	4.852	4.967	5.118	5.164	5.366	5.557	5.584	5.760	6.226
82.5	4.162	4.260	4.347	4.466	4.499	4.651	4.817	4.822	4.949	5.278
85.0	3.601	3.690	3.738	3.824	3.849	3.945	4.054	4.059	4.149	4.356
87.5	3.049	3.091	3.129	3.184	3.194	3.245	3.302	3.302	3.345	3.448
90.0	2.502	2.512	2.522	2.551	2.551	2.551	2.551	2.551	2.551	2.551

Vert. Angles **Horizontal Angles**

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	7501.514	7501.514	7501.514	7501.514	7501.514
2.5	6856.183	6915.771	6976.445	7038.097	7100.622
5.0	5929.679	6029.353	6133.792	6243.002	6356.984
7.5	4110.193	4236.369	4341.689	4457.722	4585.087
10.0	2112.437	2192.736	2278.916	2367.441	2470.449
12.5	1481.604	1588.155	1713.590	1795.542	1897.797
15.0	988.976	1075.605	1160.066	1242.473	1325.155
17.5	558.005	606.317	654.073	702.446	752.506
20.0	188.465	182.365	177.295	175.240	179.861
22.5	126.232	130.533	136.072	141.823	148.957
25.0	100.542	103.478	107.680	112.576	118.053
27.5	75.843	77.415	79.977	83.142	87.148
30.0	51.776	52.158	52.961	54.312	56.244
32.5	45.098	46.747	48.535	50.559	52.624
35.0	41.549	43.151	45.013	47.059	49.004
37.5	38.163	39.632	41.576	43.572	45.384
40.0	34.759	36.161	38.027	40.102	41.764
42.5	31.531	32.806	34.560	36.644	38.142
45.0	28.402	29.650	31.391	33.466	34.830
47.5	26.268	27.546	29.190	31.148	32.471
50.0	24.694	25.861	27.380	29.139	30.417
52.5	23.214	24.212	25.615	27.157	28.363
55.0	21.700	22.612	23.967	25.241	26.315
57.5	20.263	21.048	22.208	23.293	24.258
60.0	18.868	19.517	20.538	21.399	22.212
62.5	16.863	17.401	18.262	19.176	20.047
65.0	14.769	15.240	15.972	16.953	17.888
67.5	12.637	13.093	13.691	14.725	15.728
70.0	10.587	10.968	11.420	12.492	13.563
72.5	9.458	9.823	10.255	11.222	12.174
75.0	8.453	8.771	9.125	9.960	10.791
77.5	7.453	7.719	8.003	8.703	9.399
80.0	6.465	6.675	6.897	7.455	8.018
82.5	5.481	5.636	5.789	6.209	6.629
85.0	4.503	4.594	4.684	4.960	5.246
87.5	3.526	3.562	3.590	3.717	3.854
90.0	2.551	2.522	2.492	2.477	2.472

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BBXWSEHO.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	594.63	81.80	81.60
0-30	644.59	88.70	88.40
0-40	670.12	92.20	91.90
0-60	706.40	97.20	96.90
0-80	725.94	99.90	99.60
0-90	729.11	100.30	100.00
10-90	349.78	48.10	48.00
20-40	75.48	10.40	10.40
20-50	95.36	13.10	13.10
40-70	48.55	6.70	6.70
60-80	19.55	2.70	2.70
70-80	7.28	1.00	1.00
80-90	3.17	0.40	0.40
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	729.11	100.30	100.00

Total Luminaire Efficiency = 100.30%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	379.34
10-20	215.30
20-30	49.96
30-40	25.52
40-50	19.88
50-60	16.40
60-70	12.27
70-80	7.28
80-90	3.17
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
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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	10	0
0	119	119	119	119	117	117	117	117	111	111	111	107	107	107	102	102	102	100
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	100	103	100	98	100	98	96	97	96	94	93
3	108	103	99	96	106	102	98	95	99	96	94	97	94	92	95	93	91	90
4	104	99	95	92	103	98	94	91	96	93	90	94	92	89	92	90	88	87
5	102	96	92	89	100	95	91	88	93	90	88	92	89	87	90	88	86	85
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	89	86	84	83
7	97	90	86	84	96	90	86	83	89	85	83	88	85	83	87	84	82	81
8	95	88	84	82	94	88	84	81	87	83	81	86	83	81	85	83	81	80
9	93	86	82	80	92	86	82	80	85	82	79	84	81	79	84	81	79	78
10	91	84	81	78	90	84	81	78	83	80	78	83	80	78	82	80	78	77

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BBXWSEHO.IES

UGR TABLE - CORRECTED

Reflectances

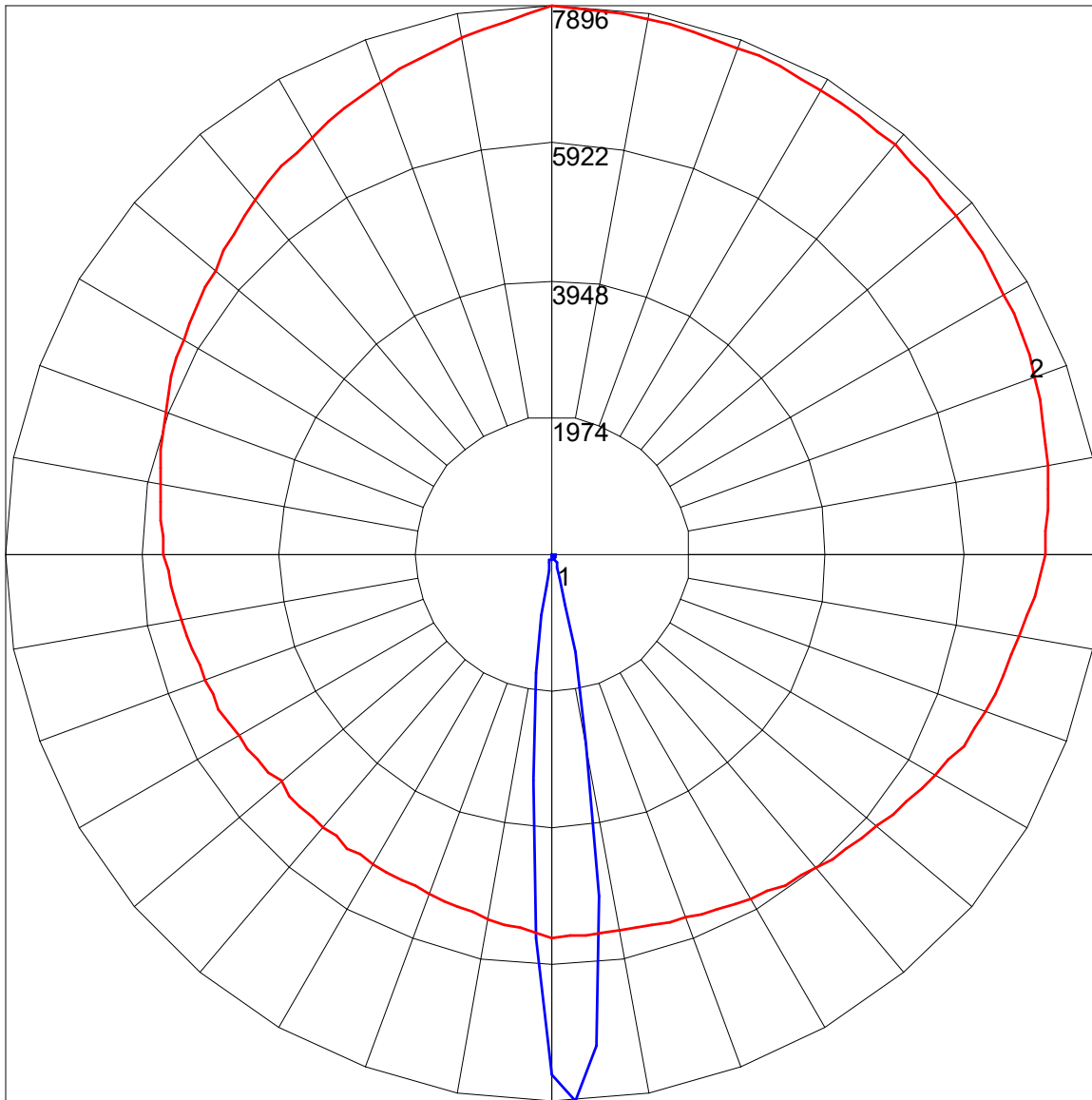
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	13.6	14.9	14.0	15.2	15.5	1.3	2.6	1.7	2.9	3.2
	3H	15.7	16.9	16.1	17.2	17.6	2.6	3.7	2.9	4.1	4.4
	4H	16.8	17.8	17.2	18.2	18.6	3.5	4.6	3.9	4.9	5.3
	6H	17.8	18.8	18.2	19.1	19.5	4.9	5.9	5.3	6.2	6.6
	8H	18.3	19.2	18.7	19.6	20.0	5.8	6.7	6.2	7.1	7.5
	12H	18.8	19.7	19.2	20.1	20.5	6.9	7.9	7.4	8.2	8.7
4H	2H	13.6	14.7	14.0	15.1	15.5	5.8	6.8	6.2	7.2	7.6
	3H	15.9	16.8	16.3	17.3	17.7	7.4	8.4	7.9	8.8	9.2
	4H	17.1	17.9	17.5	18.3	18.8	8.2	9.0	8.7	9.5	9.9
	6H	18.3	19.1	18.8	19.5	20.0	9.1	9.8	9.6	10.3	10.7
	8H	19.0	19.7	19.5	20.1	20.6	9.7	10.3	10.1	10.8	11.3
	12H	19.7	20.3	20.2	20.8	21.2	10.5	11.1	10.9	11.5	12.0
8H	4H	17.2	17.8	17.6	18.3	18.8	10.3	10.9	10.7	11.4	11.9
	6H	18.6	19.2	19.1	19.6	20.1	11.5	12.1	12.0	12.6	13.0
	8H	19.4	19.9	19.9	20.4	20.9	12.2	12.7	12.7	13.2	13.7
	12H	20.3	20.7	20.8	21.2	21.8	13.0	13.4	13.5	13.9	14.5
12H	4H	17.2	17.8	17.6	18.2	18.7	10.8	11.4	11.3	11.9	12.4
	6H	18.6	19.1	19.2	19.6	20.1	12.3	12.8	12.8	13.3	13.8
	8H	19.5	19.9	20.0	20.4	21.0	13.1	13.6	13.6	14.1	14.6

Maximum UGR = 21.8

POLAR GRAPH



Maximum Candela = 7895.77 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)