

IES INDOOR REPORT

PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[MANUFAC] :Fabbian
[EULUMDAT_ITYP] 1
[EULUMDAT_HDIST] 5
[EULUMD_VDIST] 5
[TEST]
[TESTLAB]
[LUMINAIRE] OLYMPIC POWER-WALL-CEILING D.1387 3500K WHITE
[LUMCAT] F45G64
[EULUM_FILENAME] F45 A05 01.ltd
[ISSUEDATE] 2020-01-14
[EULUM_AREALENGTH] 1387
[EULUM_AREAWIDTH] 0
[EULUM_C0_LUM] 0
[EULUM_C90_LUM] 0
[EULUM_C180_LUM] 0
[EULUM_C270_LUM] 0
[EULUM_DOWN_FLUX] 53.37
[EULUM_EFFICIENCY] 100
[EULUM_CONV] 1
[EULUM_TILT] 0
[EULUM_LAMP_1_NUM] 1
[EULUM_LAMP_1_TYPE] LED SMD2835 14790 lm
[EULUM_LAMP_1_FLUX] 7900
[EULUM_LAMP_1_COLOR] 3195
[EULUM_LAMP_1_CRG] 90
[EULUM_LAMP_1_WATTS] 82
[LAMP] LED SMD2835 14790 lm
[EULUM_DR_0] 0
[EULUM_DR_1] 0
[EULUM_DR_2] 50
[EULUM_DR_3] 55
[EULUM_DR_4] 60
[EULUM_DR_5] 65
[EULUM_DR_6] 70
[EULUM_DR_7] 75
[EULUM_DR_8] 80
[EULUM_DR_9] 85
[CONVERT] Luminaire test position and photometric web converted from original test data (LDT to IES Reorientation)

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CHARACTERISTICS

Lumens Per Lamp	7900 (1 lamp)
Total Lamp Lumens	7900
Luminaire Lumens	8126
Total Luminaire Efficiency	103 %
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	82
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	Circular
Luminous Length (0-180)	1.39 m (Diameter)
Luminous Width (90-270)	1.39 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	385	386	387
55	602	601	603
65	1065	1063	1067
75	2296	2302	2306
85	7920	7918	7933

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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	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487
2.5	293.090	293.090	293.090	293.051	293.011	292.991	292.972	292.952	292.932	293.070
5.0	289.693	289.693	289.693	289.614	289.535	289.496	289.456	289.417	289.377	289.654
7.5	292.340	292.359	292.379	292.300	292.221	292.320	292.419	292.201	291.984	292.201
10.0	294.986	295.026	295.065	294.986	294.907	295.144	295.381	294.986	294.591	294.749
12.5	298.818	298.699	298.581	298.620	298.660	298.699	298.739	298.561	298.383	298.462
15.0	302.649	302.373	302.096	302.254	302.412	302.254	302.096	302.136	302.175	302.175
17.5	307.073	307.093	307.113	307.113	307.113	307.014	306.915	306.994	307.073	307.113
20.0	311.497	311.813	312.129	311.971	311.813	311.774	311.734	311.853	311.971	312.050
22.5	318.963	319.160	319.358	319.437	319.516	319.338	319.160	319.200	319.239	319.456
25.0	326.428	326.507	326.586	326.902	327.218	326.902	326.586	326.547	326.507	326.863
27.5	335.829	335.948	336.066	336.204	336.343	336.204	336.066	335.908	335.750	335.908
30.0	345.230	345.388	345.546	345.507	345.467	345.507	345.546	345.270	344.993	344.954
32.5	350.721	350.879	351.037	350.898	350.760	350.760	350.760	350.721	350.681	350.681
35.0	356.211	356.369	356.527	356.290	356.053	356.014	355.974	356.172	356.369	356.409
37.5	371.103	371.142	371.182	371.083	370.984	371.004	371.024	370.984	370.945	370.945
40.0	385.994	385.915	385.836	385.876	385.915	385.994	386.073	385.797	385.520	385.481
42.5	398.713	398.772	398.832	398.871	398.911	398.871	398.832	398.832	398.832	398.772
45.0	411.432	411.630	411.827	411.867	411.906	411.748	411.590	411.867	412.143	412.064
47.5	444.099	444.573	445.047	444.987	444.928	444.810	444.691	444.908	445.126	445.047
50.0	476.765	477.516	478.266	478.108	477.950	477.871	477.792	477.950	478.108	478.029
52.5	499.320	499.754	500.189	500.070	499.952	499.754	499.557	499.675	499.794	499.833
55.0	521.874	521.993	522.111	522.032	521.953	521.637	521.321	521.400	521.479	521.637
57.5	557.266	557.385	557.503	557.345	557.187	557.029	556.871	556.891	556.911	557.029
60.0	592.658	592.777	592.895	592.658	592.421	592.421	592.421	592.382	592.342	592.421
62.5	636.424	636.503	636.582	636.444	636.306	636.266	636.227	636.148	636.069	636.207
65.0	680.190	680.230	680.269	680.230	680.190	680.111	680.032	679.914	679.795	679.993
67.5	736.517	736.517	736.517	736.655	736.794	736.675	736.557	736.576	736.596	736.675
70.0	792.844	792.805	792.765	793.081	793.397	793.239	793.081	793.239	793.397	793.358
72.5	845.616	845.596	845.577	845.715	845.853	845.814	845.774	845.893	846.011	846.347
75.0	898.388	898.388	898.388	898.349	898.309	898.388	898.467	898.546	898.625	899.336
77.5	936.190	936.190	936.190	936.012	935.834	936.051	936.269	936.308	936.348	936.664
80.0	973.991	973.991	973.991	973.675	973.359	973.715	974.070	974.070	974.070	973.991
82.5	1008.672	1008.573	1008.475	1008.376	1008.277	1007.981	1007.685	1008.099	1008.514	1008.475
85.0	1043.353	1043.156	1042.958	1043.077	1043.195	1042.247	1041.299	1042.129	1042.958	1042.958
87.5	1049.594	1049.535	1049.476	1049.653	1049.831	1049.199	1048.567	1049.239	1049.910	1049.871
90.0	1055.835	1055.914	1055.993	1056.230	1056.467	1056.151	1055.835	1056.349	1056.862	1056.783
92.5	1048.607	1048.626	1048.646	1048.784	1048.923	1048.626	1048.330	1048.626	1048.923	1048.863
95.0	1041.378	1041.339	1041.299	1041.339	1041.378	1041.102	1040.825	1040.904	1040.983	1040.944
97.5	1009.818	1010.173	1010.529	1010.114	1009.699	1009.660	1009.620	1009.600	1009.581	1009.561
100.0	978.257	979.008	979.758	978.889	978.020	978.218	978.415	978.297	978.178	978.178
102.5	943.853	944.188	944.524	944.109	943.695	943.754	943.813	943.635	943.458	943.201
105.0	909.448	909.369	909.290	909.330	909.369	909.290	909.211	908.974	908.737	908.224
107.5	857.150	857.071	856.992	857.051	857.111	856.972	856.834	856.656	856.479	856.380
110.0	804.852	804.773	804.694	804.773	804.852	804.655	804.457	804.339	804.220	804.536
112.5	747.775	747.715	747.656	747.656	747.656	747.696	747.735	747.676	747.617	747.735
115.0	690.697	690.658	690.618	690.539	690.460	690.737	691.013	691.013	691.013	690.934
117.5	646.181	646.299	646.418	646.378	646.339	646.437	646.536	646.536	646.536	646.477
120.0	601.664	601.941	602.217	602.217	602.217	602.138	602.059	602.059	602.059	602.020
122.5	566.391	566.588	566.786	566.825	566.865	566.805	566.746	566.805	566.865	566.667
125.0	531.117	531.236	531.354	531.433	531.512	531.473	531.433	531.552	531.670	531.315
127.5	507.496	507.397	507.299	507.338	507.378	507.476	507.575	507.516	507.457	507.318
130.0	483.875	483.559	483.243	483.243	483.243	483.480	483.717	483.480	483.243	483.322
132.5	451.011	450.794	450.577	450.577	450.577	450.695	450.814	450.656	450.498	450.596

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

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135.0	418.147	418.029	417.910	417.910	417.910	417.910	417.910	417.831	417.752	417.871
137.5	403.572	403.670	403.769	403.651	403.532	403.631	403.730	403.710	403.690	403.611
140.0	388.996	389.312	389.628	389.391	389.154	389.352	389.549	389.589	389.628	389.352
142.5	373.631	373.670	373.710	373.670	373.631	373.670	373.710	373.749	373.789	373.552
145.0	358.265	358.028	357.791	357.949	358.107	357.989	357.870	357.910	357.949	357.752
147.5	353.012	352.893	352.775	352.814	352.854	352.794	352.735	352.775	352.814	352.636
150.0	347.758	347.758	347.758	347.679	347.600	347.600	347.600	347.640	347.679	347.521
152.5	338.436	338.318	338.199	338.179	338.160	338.120	338.081	338.100	338.120	338.041
155.0	329.114	328.877	328.640	328.680	328.719	328.640	328.561	328.561	328.561	328.561
157.5	321.135	321.036	320.938	321.017	321.096	320.977	320.859	320.977	321.096	320.957
160.0	313.156	313.196	313.235	313.354	313.472	313.314	313.156	313.393	313.630	313.354
162.5	309.088	309.068	309.048	309.107	309.167	309.068	308.969	309.226	309.483	309.325
165.0	305.019	304.940	304.861	304.861	304.861	304.822	304.782	305.059	305.335	305.296
167.5	300.121	300.003	299.884	299.904	299.924	299.983	300.042	300.042	300.042	300.003
170.0	295.223	295.065	294.907	294.947	294.986	295.144	295.302	295.026	294.749	294.710
172.5	292.419	292.300	292.182	292.142	292.103	292.320	292.537	292.438	292.340	292.221
175.0	289.614	289.535	289.456	289.338	289.219	289.496	289.772	289.851	289.930	289.733
177.5	293.051	293.011	292.972	292.912	292.853	292.991	293.130	293.169	293.209	293.110
180.0	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000

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	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487
2.5	293.209	293.189	293.169	293.446	293.722	293.663	293.604	293.683	293.762	293.781
5.0	289.930	289.891	289.851	290.404	290.957	290.839	290.720	290.878	291.036	291.076
7.5	292.419	292.478	292.537	292.715	292.893	292.893	292.893	292.853	292.814	292.833
10.0	294.907	295.065	295.223	295.026	294.828	294.947	295.065	294.828	294.591	294.591
12.5	298.541	298.719	298.897	298.581	298.265	298.423	298.581	298.521	298.462	298.324
15.0	302.175	302.373	302.570	302.136	301.701	301.899	302.096	302.215	302.333	302.057
17.5	307.152	307.113	307.073	306.876	306.678	306.777	306.876	306.994	307.113	306.935
20.0	312.129	311.853	311.576	311.616	311.655	311.655	311.655	311.774	311.892	311.813
22.5	319.674	319.456	319.239	319.259	319.279	319.318	319.358	319.417	319.476	319.298
25.0	327.218	327.060	326.902	326.902	326.902	326.981	327.060	327.060	327.060	326.784
27.5	336.066	336.066	336.066	336.007	335.948	336.125	336.303	336.125	335.948	335.967
30.0	344.914	345.072	345.230	345.112	344.993	345.270	345.546	345.191	344.835	345.151
32.5	350.681	350.780	350.879	350.800	350.721	350.780	350.839	350.642	350.444	350.701
35.0	356.448	356.488	356.527	356.488	356.448	356.290	356.132	356.093	356.053	356.251
37.5	370.945	370.984	371.024	371.083	371.142	371.004	370.866	370.826	370.787	370.866
40.0	385.441	385.481	385.520	385.678	385.836	385.718	385.599	385.560	385.520	385.481
42.5	398.713	398.753	398.792	398.753	398.713	398.753	398.792	398.812	398.832	398.674
45.0	411.985	412.025	412.064	411.827	411.590	411.788	411.985	412.064	412.143	411.867
47.5	444.968	445.066	445.165	445.007	444.849	444.928	445.007	444.987	444.968	444.592
50.0	477.950	478.108	478.266	478.187	478.108	478.069	478.029	477.911	477.792	477.318
52.5	499.873	499.873	499.873	499.873	499.873	499.813	499.754	499.695	499.636	499.853
55.0	521.795	521.637	521.479	521.558	521.637	521.558	521.479	521.479	521.479	522.388
57.5	557.148	557.187	557.227	557.128	557.029	557.108	557.187	557.069	556.950	557.543
60.0	592.500	592.737	592.974	592.698	592.421	592.658	592.895	592.658	592.421	592.698
62.5	636.345	636.385	636.424	636.286	636.148	636.365	636.582	636.128	635.674	635.654
65.0	680.190	680.032	679.874	679.874	679.874	680.072	680.269	679.598	678.926	678.610
67.5	736.754	736.734	736.715	736.537	736.359	736.537	736.715	736.695	736.675	736.616
70.0	793.318	793.437	793.555	793.200	792.844	793.002	793.160	793.792	794.424	794.622
72.5	846.683	847.038	847.394	847.117	846.841	846.920	846.999	847.295	847.591	847.690
75.0	900.047	900.640	901.232	901.035	900.837	900.837	900.837	900.798	900.758	900.758
77.5	936.980	937.394	937.809	938.105	938.402	938.244	938.086	937.789	937.493	937.533
80.0	973.912	974.149	974.386	975.176	975.966	975.650	975.334	974.781	974.228	974.307

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

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82.5	1008.435	1008.593	1008.751	1009.265	1009.778	1009.482	1009.186	1008.929	1008.672	1008.652
85.0	1042.958	1043.037	1043.116	1043.353	1043.590	1043.314	1043.037	1043.077	1043.116	1042.998
87.5	1049.831	1049.752	1049.673	1049.950	1050.226	1050.048	1049.871	1049.910	1049.950	1050.167
90.0	1056.704	1056.467	1056.230	1056.546	1056.862	1056.783	1056.704	1056.744	1056.783	1057.336
92.5	1048.804	1048.705	1048.607	1048.705	1048.804	1048.784	1048.765	1048.646	1048.528	1048.824
95.0	1040.904	1040.944	1040.983	1040.865	1040.746	1040.786	1040.825	1040.549	1040.272	1040.312
97.5	1009.541	1009.640	1009.739	1009.620	1009.502	1009.561	1009.620	1009.383	1009.146	1009.284
100.0	978.178	978.336	978.494	978.376	978.257	978.336	978.415	978.218	978.020	978.257
102.5	942.944	943.418	943.892	943.379	942.865	942.944	943.023	943.063	943.102	942.964
105.0	907.710	908.500	909.290	908.382	907.473	907.552	907.631	907.908	908.184	907.671
107.5	856.281	856.617	856.953	856.400	855.847	855.886	855.926	856.143	856.360	856.163
110.0	804.852	804.734	804.615	804.418	804.220	804.220	804.220	804.378	804.536	804.655
112.5	747.854	747.656	747.459	747.459	747.459	747.775	748.091	748.288	748.486	748.565
115.0	690.855	690.579	690.302	690.500	690.697	691.329	691.961	692.198	692.435	692.475
117.5	646.418	646.398	646.378	646.319	646.260	646.714	647.168	647.208	647.247	647.306
120.0	601.980	602.217	602.454	602.138	601.822	602.099	602.375	602.217	602.059	602.138
122.5	566.470	566.786	567.102	566.884	566.667	566.766	566.865	566.786	566.707	566.786
125.0	530.959	531.354	531.749	531.631	531.512	531.433	531.354	531.354	531.354	531.433
127.5	507.180	507.358	507.536	507.516	507.496	507.575	507.654	507.634	507.615	507.417
130.0	483.401	483.362	483.322	483.401	483.480	483.717	483.954	483.915	483.875	483.401
132.5	450.695	450.695	450.695	450.735	450.774	450.912	451.051	450.833	450.616	450.478
135.0	417.989	418.029	418.068	418.068	418.068	418.108	418.147	417.752	417.357	417.555
137.5	403.532	403.670	403.809	403.730	403.651	403.631	403.611	403.552	403.493	403.493
140.0	389.075	389.312	389.549	389.391	389.233	389.154	389.075	389.352	389.628	389.431
142.5	373.315	373.631	373.947	373.808	373.670	373.650	373.631	373.710	373.789	373.769
145.0	357.554	357.949	358.344	358.226	358.107	358.147	358.186	358.068	357.949	358.107
147.5	352.459	352.735	353.012	352.873	352.735	352.775	352.814	352.715	352.617	352.636
150.0	347.363	347.521	347.679	347.521	347.363	347.403	347.442	347.363	347.284	347.166
152.5	337.962	338.081	338.199	338.179	338.160	338.120	338.081	338.120	338.160	338.140
155.0	328.561	328.640	328.719	328.838	328.956	328.838	328.719	328.877	329.035	329.114
157.5	320.819	320.878	320.938	321.096	321.254	321.076	320.898	321.036	321.175	321.135
160.0	313.077	313.117	313.156	313.354	313.551	313.314	313.077	313.196	313.314	313.156
162.5	309.167	309.088	309.009	309.206	309.404	309.167	308.930	309.009	309.088	309.107
165.0	305.256	305.059	304.861	305.059	305.256	305.019	304.782	304.822	304.861	305.059
167.5	299.963	299.845	299.726	299.983	300.240	300.062	299.884	299.825	299.766	300.003
170.0	294.670	294.631	294.591	294.907	295.223	295.105	294.986	294.828	294.670	294.947
172.5	292.103	292.083	292.063	292.261	292.458	292.379	292.300	292.201	292.103	292.320
175.0	289.535	289.535	289.535	289.614	289.693	289.654	289.614	289.575	289.535	289.693
177.5	293.011	293.011	293.011	293.051	293.090	293.070	293.051	293.031	293.011	293.090
180.0	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000

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	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487
2.5	293.801	293.860	293.920	293.860	293.801	293.781	293.762	293.781	293.801	293.821
5.0	291.115	291.234	291.352	291.234	291.115	291.076	291.036	291.076	291.115	291.155
7.5	292.853	293.090	293.327	293.209	293.090	293.090	293.090	293.130	293.169	293.169
10.0	294.591	294.947	295.302	295.184	295.065	295.105	295.144	295.184	295.223	295.184
12.5	298.186	298.383	298.581	299.114	299.647	299.548	299.450	299.608	299.766	299.706
15.0	301.780	301.820	301.859	303.044	304.229	303.992	303.755	304.032	304.308	304.229
17.5	306.757	306.797	306.836	307.468	308.100	307.883	307.666	307.942	308.219	308.159
20.0	311.734	311.774	311.813	311.892	311.971	311.774	311.576	311.853	312.129	312.090
22.5	319.121	319.200	319.279	319.279	319.279	319.437	319.595	319.654	319.713	319.516
25.0	326.507	326.626	326.744	326.665	326.586	327.100	327.613	327.455	327.297	326.942
27.5	335.987	336.046	336.106	335.987	335.869	336.224	336.580	336.343	336.106	335.928

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

CANDELA TABULATION - (Cont.)

30.0	345.467	345.467	345.467	345.309	345.151	345.349	345.546	345.230	344.914	344.914
32.5	350.958	350.918	350.879	350.760	350.642	351.056	351.471	351.412	351.353	351.353
35.0	356.448	356.369	356.290	356.211	356.132	356.764	357.396	357.594	357.791	357.791
37.5	370.945	370.945	370.945	371.004	371.063	371.221	371.379	371.419	371.458	371.478
40.0	385.441	385.520	385.599	385.797	385.994	385.678	385.362	385.244	385.125	385.165
42.5	398.516	398.891	399.266	399.444	399.622	399.424	399.227	399.246	399.266	399.306
45.0	411.590	412.262	412.933	413.091	413.249	413.170	413.091	413.249	413.407	413.447
47.5	444.217	444.434	444.652	444.810	444.968	444.829	444.691	444.829	444.968	444.968
50.0	476.844	476.607	476.370	476.528	476.686	476.489	476.291	476.410	476.528	476.489
52.5	500.070	499.971	499.873	500.011	500.149	500.050	499.952	499.833	499.715	499.675
55.0	523.296	523.336	523.375	523.494	523.612	523.612	523.612	523.257	522.901	522.862
57.5	558.135	557.997	557.859	557.997	558.135	558.115	558.096	557.878	557.661	557.681
60.0	592.974	592.658	592.342	592.500	592.658	592.619	592.579	592.500	592.421	592.500
62.5	635.634	635.575	635.516	635.476	635.437	635.535	635.634	635.516	635.397	635.555
65.0	678.294	678.492	678.689	678.452	678.215	678.452	678.689	678.531	678.373	678.610
67.5	736.557	736.260	735.964	735.786	735.609	735.846	736.083	735.885	735.688	736.063
70.0	794.819	794.029	793.239	793.121	793.002	793.239	793.476	793.239	793.002	793.516
72.5	847.789	847.295	846.801	846.821	846.841	847.018	847.196	847.078	846.959	847.512
75.0	900.758	900.561	900.363	900.521	900.679	900.798	900.916	900.916	900.916	901.509
77.5	937.572	937.355	937.138	937.355	937.572	937.434	937.296	937.335	937.375	937.809
80.0	974.386	974.149	973.912	974.189	974.465	974.070	973.675	973.754	973.833	974.110
82.5	1008.633	1008.712	1008.791	1009.205	1009.620	1009.442	1009.265	1009.186	1009.107	1009.462
85.0	1042.879	1043.274	1043.669	1044.222	1044.775	1044.815	1044.854	1044.617	1044.380	1044.815
87.5	1050.384	1050.424	1050.463	1050.819	1051.174	1051.214	1051.253	1051.194	1051.135	1050.937
90.0	1057.889	1057.573	1057.257	1057.415	1057.573	1057.613	1057.652	1057.771	1057.889	1057.060
92.5	1049.120	1048.666	1048.212	1048.567	1048.923	1048.962	1049.002	1049.140	1049.278	1048.429
95.0	1040.351	1039.759	1039.166	1039.719	1040.272	1040.312	1040.351	1040.509	1040.667	1039.798
97.5	1009.423	1008.988	1008.554	1008.968	1009.383	1009.383	1009.383	1009.521	1009.660	1009.344
100.0	978.494	978.218	977.941	978.218	978.494	978.455	978.415	978.534	978.652	978.889
102.5	942.826	942.984	943.142	943.181	943.221	943.161	943.102	943.181	943.260	943.260
105.0	907.157	907.750	908.342	908.145	907.947	907.868	907.789	907.829	907.868	907.631
107.5	855.965	856.123	856.281	856.281	856.281	856.656	857.032	856.656	856.281	856.163
110.0	804.773	804.497	804.220	804.418	804.615	805.445	806.274	805.484	804.694	804.694
112.5	748.644	748.505	748.367	748.486	748.604	748.881	749.157	748.387	747.617	747.538
115.0	692.514	692.514	692.514	692.554	692.593	692.317	692.040	691.290	690.539	690.381
117.5	647.366	647.425	647.484	647.445	647.405	647.208	647.010	646.734	646.457	646.319
120.0	602.217	602.336	602.454	602.336	602.217	602.099	601.980	602.178	602.375	602.257
122.5	566.865	566.825	566.786	566.825	566.865	566.825	566.786	566.884	566.983	566.529
125.0	531.512	531.315	531.117	531.315	531.512	531.552	531.591	531.591	531.591	530.801
127.5	507.220	507.318	507.417	507.417	507.417	507.378	507.338	507.279	507.220	506.706
130.0	482.927	483.322	483.717	483.520	483.322	483.204	483.085	482.967	482.848	482.611
132.5	450.340	450.182	450.024	450.261	450.498	450.043	449.589	449.688	449.787	450.004
135.0	417.752	417.041	416.330	417.002	417.673	416.883	416.093	416.409	416.725	417.397
137.5	403.493	403.157	402.821	403.216	403.611	403.275	402.940	403.078	403.216	403.433
140.0	389.233	389.273	389.312	389.431	389.549	389.668	389.786	389.747	389.707	389.470
142.5	373.749	373.828	373.907	373.947	373.986	374.065	374.144	374.065	373.986	373.947
145.0	358.265	358.384	358.502	358.463	358.423	358.463	358.502	358.384	358.265	358.423
147.5	352.656	352.735	352.814	352.854	352.893	353.031	353.170	353.031	352.893	353.110
150.0	347.047	347.087	347.126	347.245	347.363	347.600	347.837	347.679	347.521	347.798
152.5	338.120	338.100	338.081	338.100	338.120	338.179	338.239	338.337	338.436	338.594
155.0	329.193	329.114	329.035	328.956	328.877	328.759	328.640	328.996	329.351	329.391
157.5	321.096	321.234	321.372	321.155	320.938	321.017	321.096	320.799	320.503	320.582
160.0	312.998	313.354	313.709	313.354	312.998	313.275	313.551	312.603	311.655	311.774
162.5	309.127	309.226	309.325	309.265	309.206	309.285	309.364	308.890	308.416	308.159
165.0	305.256	305.098	304.940	305.177	305.414	305.296	305.177	305.177	305.177	304.545
167.5	300.240	300.082	299.924	300.042	300.161	300.200	300.240	300.121	300.003	299.509

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

CANDELA TABULATION - (Cont.)

170.0	295.223	295.065	294.907	294.907	294.907	295.105	295.302	295.065	294.828	294.473
172.5	292.537	292.478	292.419	292.340	292.261	292.280	292.300	292.340	292.379	292.261
175.0	289.851	289.891	289.930	289.772	289.614	289.456	289.298	289.614	289.930	290.049
177.5	293.169	293.189	293.209	293.130	293.051	292.972	292.893	293.051	293.209	293.268
180.0	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000

**Vert.
Angles**

Horizontal Angles

	75.0	77.5	80.0	82.5	85.0	87.5	90.0	92.5	95.0	97.5
0.0	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487
2.5	293.841	293.801	293.762	293.821	293.880	293.920	293.959	293.781	293.604	293.702
5.0	291.194	291.115	291.036	291.155	291.273	291.352	291.431	291.076	290.720	290.918
7.5	293.169	293.031	292.893	293.011	293.130	293.169	293.209	292.932	292.656	292.932
10.0	295.144	294.947	294.749	294.868	294.986	294.986	294.986	294.789	294.591	294.947
12.5	299.647	299.410	299.173	299.311	299.450	299.529	299.608	299.548	299.489	299.608
15.0	304.150	303.874	303.597	303.755	303.913	304.071	304.229	304.308	304.387	304.269
17.5	308.100	307.883	307.666	307.804	307.942	307.903	307.863	307.982	308.100	307.982
20.0	312.050	311.892	311.734	311.853	311.971	311.734	311.497	311.655	311.813	311.695
22.5	319.318	319.338	319.358	319.516	319.674	319.516	319.358	319.377	319.397	319.377
25.0	326.586	326.784	326.981	327.179	327.376	327.297	327.218	327.100	326.981	327.060
27.5	335.750	335.908	336.066	336.125	336.185	336.244	336.303	336.264	336.224	336.283
30.0	344.914	345.033	345.151	345.072	344.993	345.191	345.388	345.428	345.467	345.507
32.5	351.353	350.938	350.523	350.503	350.484	350.661	350.839	350.740	350.642	350.859
35.0	357.791	356.843	355.895	355.935	355.974	356.132	356.290	356.053	355.816	356.211
37.5	371.498	371.122	370.747	370.688	370.629	370.668	370.708	370.688	370.668	370.787
40.0	385.204	385.402	385.599	385.441	385.283	385.204	385.125	385.323	385.520	385.362
42.5	399.345	399.345	399.345	399.325	399.306	399.404	399.503	399.464	399.424	399.246
45.0	413.486	413.289	413.091	413.210	413.328	413.605	413.881	413.605	413.328	413.131
47.5	444.968	444.948	444.928	444.869	444.810	444.928	445.047	445.047	445.047	444.770
50.0	476.449	476.607	476.765	476.528	476.291	476.252	476.212	476.489	476.765	476.410
52.5	499.636	499.892	500.149	499.892	499.636	499.636	499.636	499.892	500.149	499.952
55.0	522.822	523.178	523.533	523.257	522.980	523.020	523.059	523.296	523.533	523.494
57.5	557.701	557.859	558.017	557.938	557.859	557.780	557.701	557.918	558.135	558.017
60.0	592.579	592.540	592.500	592.619	592.737	592.540	592.342	592.540	592.737	592.540
62.5	635.713	635.634	635.555	636.246	636.938	636.977	637.017	636.977	636.938	636.266
65.0	678.847	678.729	678.610	679.874	681.138	681.415	681.691	681.415	681.138	679.993
67.5	736.438	736.458	736.478	737.031	737.584	737.761	737.939	737.702	737.465	736.952
70.0	794.029	794.187	794.345	794.187	794.029	794.108	794.187	793.990	793.792	793.911
72.5	848.065	848.164	848.263	847.749	847.236	847.729	848.223	847.769	847.315	847.828
75.0	902.101	902.141	902.180	901.311	900.442	901.351	902.259	901.548	900.837	901.746
77.5	938.244	938.540	938.836	938.599	938.362	938.816	939.271	939.034	938.797	938.974
80.0	974.386	974.939	975.492	975.887	976.282	976.282	976.282	976.519	976.756	976.203
82.5	1009.818	1010.094	1010.371	1010.687	1011.003	1010.864	1010.726	1010.864	1011.003	1010.746
85.0	1045.249	1045.249	1045.249	1045.486	1045.723	1045.447	1045.170	1045.210	1045.249	1045.289
87.5	1050.740	1050.799	1050.858	1050.858	1050.858	1050.720	1050.582	1050.542	1050.503	1050.621
90.0	1056.230	1056.349	1056.467	1056.230	1055.993	1055.993	1055.993	1055.875	1055.756	1055.954
92.5	1047.580	1047.619	1047.659	1047.520	1047.382	1047.481	1047.580	1047.441	1047.303	1047.402
95.0	1038.929	1038.890	1038.850	1038.811	1038.771	1038.969	1039.166	1039.008	1038.850	1038.850
97.5	1009.028	1008.850	1008.672	1008.731	1008.791	1008.929	1009.067	1008.830	1008.593	1008.731
100.0	979.126	978.810	978.494	978.652	978.810	978.889	978.968	978.652	978.336	978.613
102.5	943.260	943.181	943.102	943.082	943.063	943.082	943.102	942.944	942.786	942.905
105.0	907.394	907.552	907.710	907.513	907.315	907.276	907.236	907.236	907.236	907.197
107.5	856.044	856.005	855.965	855.926	855.886	855.945	856.005	855.985	855.965	855.906
110.0	804.694	804.457	804.220	804.339	804.457	804.615	804.773	804.734	804.694	804.615
112.5	747.459	747.281	747.103	747.182	747.261	747.597	747.933	747.656	747.380	747.380
115.0	690.223	690.105	689.986	690.026	690.065	690.579	691.092	690.579	690.065	690.144

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

CANDELA TABULATION - (Cont.)

117.5	646.181	646.042	645.904	645.963	646.023	646.240	646.457	646.240	646.023	646.200
120.0	602.138	601.980	601.822	601.901	601.980	601.901	601.822	601.901	601.980	602.257
122.5	566.075	566.055	566.035	566.173	566.312	566.173	566.035	566.055	566.075	566.312
125.0	530.011	530.130	530.248	530.446	530.643	530.446	530.248	530.209	530.169	530.367
127.5	506.193	506.114	506.035	506.193	506.351	506.331	506.311	506.212	506.114	506.193
130.0	482.374	482.098	481.821	481.940	482.058	482.216	482.374	482.216	482.058	482.019
132.5	450.221	450.043	449.866	449.609	449.352	449.806	450.261	449.787	449.313	449.629
135.0	418.068	417.989	417.910	417.278	416.646	417.397	418.147	417.357	416.567	417.239
137.5	403.651	403.493	403.335	402.999	402.663	403.157	403.651	403.275	402.900	403.196
140.0	389.233	388.996	388.759	388.720	388.680	388.917	389.154	389.194	389.233	389.154
142.5	373.907	373.729	373.552	373.552	373.552	373.729	373.907	373.887	373.868	373.828
145.0	358.581	358.463	358.344	358.384	358.423	358.542	358.660	358.581	358.502	358.502
147.5	353.328	353.209	353.091	352.755	352.419	352.597	352.775	352.636	352.498	352.873
150.0	348.074	347.956	347.837	347.126	346.415	346.652	346.889	346.692	346.494	347.245
152.5	338.752	338.673	338.594	338.140	337.686	337.863	338.041	337.942	337.844	338.239
155.0	329.430	329.391	329.351	329.154	328.956	329.075	329.193	329.193	329.193	329.233
157.5	320.661	320.622	320.582	320.444	320.306	320.325	320.345	320.404	320.464	320.444
160.0	311.892	311.853	311.813	311.734	311.655	311.576	311.497	311.616	311.734	311.655
162.5	307.903	308.001	308.100	307.982	307.863	307.824	307.784	307.784	307.784	307.725
165.0	303.913	304.150	304.387	304.229	304.071	304.071	304.071	303.953	303.834	303.795
167.5	299.015	299.134	299.252	299.193	299.134	299.173	299.213	298.995	298.778	298.857
170.0	294.117	294.117	294.117	294.157	294.196	294.275	294.354	294.038	293.722	293.920
172.5	292.142	292.122	292.103	292.103	292.103	292.103	292.103	291.905	291.708	291.866
175.0	290.167	290.128	290.088	290.049	290.009	289.930	289.851	289.772	289.693	289.812
177.5	293.327	293.307	293.288	293.268	293.248	293.209	293.169	293.130	293.090	293.149
180.0	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000

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	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487
2.5	293.801	293.880	293.959	293.841	293.722	293.801	293.880	293.821	293.762	293.702
5.0	291.115	291.273	291.431	291.194	290.957	291.115	291.273	291.155	291.036	290.918
7.5	293.209	293.189	293.169	293.130	293.090	293.051	293.011	292.912	292.814	292.794
10.0	295.302	295.105	294.907	295.065	295.223	294.986	294.749	294.670	294.591	294.670
12.5	299.726	299.667	299.608	299.529	299.450	299.410	299.371	299.410	299.450	298.837
15.0	304.150	304.229	304.308	303.992	303.676	303.834	303.992	304.150	304.308	303.005
17.5	307.863	307.942	308.021	307.922	307.824	307.903	307.982	308.120	308.258	307.508
20.0	311.576	311.655	311.734	311.853	311.971	311.971	311.971	312.090	312.208	312.011
22.5	319.358	319.239	319.121	319.358	319.595	319.595	319.595	319.614	319.634	319.417
25.0	327.139	326.823	326.507	326.863	327.218	327.218	327.218	327.139	327.060	326.823
27.5	336.343	336.165	335.987	336.145	336.303	336.362	336.422	336.264	336.106	336.066
30.0	345.546	345.507	345.467	345.428	345.388	345.507	345.625	345.388	345.151	345.309
32.5	351.076	351.392	351.708	351.669	351.629	351.609	351.590	351.037	350.484	350.661
35.0	356.606	357.278	357.949	357.910	357.870	357.712	357.554	356.685	355.816	356.014
37.5	370.905	371.320	371.735	371.616	371.498	371.498	371.498	371.162	370.826	370.846
40.0	385.204	385.362	385.520	385.323	385.125	385.283	385.441	385.639	385.836	385.678
42.5	399.069	399.246	399.424	399.246	399.069	399.187	399.306	399.464	399.622	399.424
45.0	412.933	413.131	413.328	413.170	413.012	413.091	413.170	413.289	413.407	413.170
47.5	444.494	444.731	444.968	444.889	444.810	444.770	444.731	444.750	444.770	444.671
50.0	476.054	476.331	476.607	476.607	476.607	476.449	476.291	476.212	476.133	476.173
52.5	499.754	499.853	499.952	499.892	499.833	499.715	499.596	499.715	499.833	499.715
55.0	523.454	523.375	523.296	523.178	523.059	522.980	522.901	523.217	523.533	523.257
57.5	557.898	557.938	557.977	557.997	558.017	557.799	557.582	557.819	558.056	557.997
60.0	592.342	592.500	592.658	592.816	592.974	592.619	592.263	592.421	592.579	592.737
62.5	635.595	635.634	635.674	635.792	635.911	635.733	635.555	635.674	635.792	635.753

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

CANDELA TABULATION - (Cont.)

65.0	678.847	678.768	678.689	678.768	678.847	678.847	678.847	678.847	678.926	679.005	678.768
67.5	736.438	736.359	736.280	736.043	735.806	735.964	736.122	736.181	736.241	736.023	
70.0	794.029	793.950	793.871	793.318	792.765	793.081	793.397	793.437	793.476	793.279	
72.5	848.342	848.302	848.263	847.413	846.564	846.860	847.157	847.157	847.157	846.979	
75.0	902.654	902.654	902.654	901.509	900.363	900.640	900.916	900.877	900.837	900.679	
77.5	939.152	938.698	938.244	937.651	937.059	937.296	937.533	937.493	937.454	937.375	
80.0	975.650	974.742	973.833	973.794	973.754	973.952	974.149	974.110	974.070	974.070	
82.5	1010.489	1009.995	1009.502	1009.383	1009.265	1009.225	1009.186	1009.225	1009.265	1009.047	
85.0	1045.328	1045.249	1045.170	1044.973	1044.775	1044.499	1044.222	1044.341	1044.459	1044.025	
87.5	1050.740	1050.621	1050.503	1050.917	1051.332	1051.075	1050.819	1050.957	1051.095	1050.799	
90.0	1056.151	1055.993	1055.835	1056.862	1057.889	1057.652	1057.415	1057.573	1057.731	1057.573	
92.5	1047.501	1047.362	1047.224	1048.192	1049.160	1049.140	1049.120	1049.160	1049.199	1048.686	
95.0	1038.850	1038.732	1038.613	1039.522	1040.430	1040.628	1040.825	1040.746	1040.667	1039.798	
97.5	1008.870	1008.751	1008.633	1009.028	1009.423	1009.521	1009.620	1009.620	1009.620	1009.166	
100.0	978.889	978.771	978.652	978.534	978.415	978.415	978.415	978.494	978.573	978.534	
102.5	943.023	943.122	943.221	943.181	943.142	943.102	943.063	943.221	943.379	943.339	
105.0	907.157	907.473	907.789	907.829	907.868	907.789	907.710	907.947	908.184	908.145	
107.5	855.847	855.926	856.005	856.163	856.321	856.577	856.834	856.518	856.202	856.321	
110.0	804.536	804.378	804.220	804.497	804.773	805.366	805.958	805.089	804.220	804.497	
112.5	747.380	747.261	747.143	747.360	747.577	748.387	749.197	748.703	748.209	748.367	
115.0	690.223	690.144	690.065	690.223	690.381	691.408	692.435	692.317	692.198	692.238	
117.5	646.378	646.279	646.181	646.141	646.102	646.615	647.129	647.050	646.971	647.010	
120.0	602.533	602.415	602.296	602.059	601.822	601.822	601.822	601.783	601.743	601.783	
122.5	566.549	566.450	566.351	566.430	566.509	566.568	566.628	566.509	566.391	566.430	
125.0	530.564	530.485	530.406	530.801	531.196	531.315	531.433	531.236	531.038	531.078	
127.5	506.272	506.153	506.035	506.627	507.220	507.180	507.141	507.062	506.983	507.081	
130.0	481.979	481.821	481.663	482.453	483.243	483.046	482.848	482.888	482.927	483.085	
132.5	449.945	449.885	449.826	449.767	449.708	449.668	449.629	449.964	450.300	450.103	
135.0	417.910	417.950	417.989	417.081	416.172	416.291	416.409	417.041	417.673	417.120	
137.5	403.493	403.493	403.493	403.098	402.703	402.762	402.821	403.078	403.335	403.098	
140.0	389.075	389.036	388.996	389.115	389.233	389.233	389.233	389.115	388.996	389.075	
142.5	373.789	373.670	373.552	373.650	373.749	373.848	373.947	373.848	373.749	373.789	
145.0	358.502	358.305	358.107	358.186	358.265	358.463	358.660	358.581	358.502	358.502	
147.5	353.249	353.170	353.091	353.012	352.933	352.913	352.893	352.972	353.051	353.071	
150.0	347.995	348.035	348.074	347.837	347.600	347.363	347.126	347.363	347.600	347.640	
152.5	338.634	338.693	338.752	338.476	338.199	338.160	338.120	338.199	338.278	338.278	
155.0	329.272	329.351	329.430	329.114	328.798	328.956	329.114	329.035	328.956	328.917	
157.5	320.424	320.503	320.582	320.424	320.266	320.701	321.135	321.194	321.254	321.155	
160.0	311.576	311.655	311.734	311.734	311.734	312.445	313.156	313.354	313.551	313.393	
162.5	307.666	307.666	307.666	307.922	308.179	308.673	309.167	309.325	309.483	309.364	
165.0	303.755	303.676	303.597	304.111	304.624	304.901	305.177	305.296	305.414	305.335	
167.5	298.936	298.818	298.699	299.292	299.884	299.904	299.924	300.082	300.240	300.082	
170.0	294.117	293.959	293.801	294.473	295.144	294.907	294.670	294.868	295.065	294.828	
172.5	292.024	291.945	291.866	292.142	292.419	292.280	292.142	292.201	292.261	292.261	
175.0	289.930	289.930	289.930	289.812	289.693	289.654	289.614	289.535	289.456	289.693	
177.5	293.209	293.209	293.209	293.149	293.090	293.070	293.051	293.011	292.972	293.090	
180.0	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	

**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	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487
2.5	293.643	293.742	293.841	293.781	293.722	293.821	293.920	293.939	293.959	293.426
5.0	290.799	290.997	291.194	291.076	290.957	291.155	291.352	291.392	291.431	290.365
7.5	292.774	292.833	292.893	292.853	292.814	293.051	293.288	293.307	293.327	292.774
10.0	294.749	294.670	294.591	294.631	294.670	294.947	295.223	295.223	295.223	295.184

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

CANDELA TABULATION - (Cont.)

12.5	298.225	298.186	298.146	298.324	298.502	298.679	298.857	298.758	298.660	298.640
15.0	301.701	301.701	301.701	302.017	302.333	302.412	302.491	302.294	302.096	302.096
17.5	306.757	306.836	306.915	306.974	307.034	307.053	307.073	307.053	307.034	306.955
20.0	311.813	311.971	312.129	311.932	311.734	311.695	311.655	311.813	311.971	311.813
22.5	319.200	319.437	319.674	319.654	319.634	319.595	319.555	319.496	319.437	319.338
25.0	326.586	326.902	327.218	327.376	327.534	327.495	327.455	327.179	326.902	326.863
27.5	336.027	336.106	336.185	336.204	336.224	336.224	336.224	336.106	335.987	335.908
30.0	345.467	345.309	345.151	345.033	344.914	344.954	344.993	345.033	345.072	344.954
32.5	350.839	350.701	350.563	350.503	350.444	350.523	350.602	350.523	350.444	350.424
35.0	356.211	356.093	355.974	355.974	355.974	356.093	356.211	356.014	355.816	355.895
37.5	370.866	370.945	371.024	370.984	370.945	370.984	371.024	370.846	370.668	370.767
40.0	385.520	385.797	386.073	385.994	385.915	385.876	385.836	385.678	385.520	385.639
42.5	399.227	398.990	398.753	398.753	398.753	398.693	398.634	398.555	398.476	398.555
45.0	412.933	412.183	411.432	411.511	411.590	411.511	411.432	411.432	411.432	411.472
47.5	444.573	444.296	444.020	444.494	444.968	444.849	444.731	444.612	444.494	444.711
50.0	476.212	476.410	476.607	477.476	478.345	478.187	478.029	477.792	477.555	477.950
52.5	499.596	499.833	500.070	500.149	500.228	500.110	499.991	499.754	499.517	499.695
55.0	522.980	523.257	523.533	522.822	522.111	522.032	521.953	521.716	521.479	521.440
57.5	557.938	557.997	558.056	557.760	557.464	557.365	557.266	557.148	557.029	557.069
60.0	592.895	592.737	592.579	592.698	592.816	592.698	592.579	592.579	592.579	592.698
62.5	635.713	635.654	635.595	635.555	635.516	635.930	636.345	636.286	636.227	636.424
65.0	678.531	678.571	678.610	678.413	678.215	679.163	680.111	679.993	679.874	680.151
67.5	735.806	736.260	736.715	736.517	736.320	736.497	736.675	736.636	736.596	736.596
70.0	793.081	793.950	794.819	794.622	794.424	793.832	793.239	793.279	793.318	793.042
72.5	846.801	847.295	847.789	847.749	847.710	847.453	847.196	847.196	847.196	847.097
75.0	900.521	900.640	900.758	900.877	900.995	901.074	901.153	901.114	901.074	901.153
77.5	937.296	937.276	937.256	937.394	937.533	938.046	938.560	938.461	938.362	937.908
80.0	974.070	973.912	973.754	973.912	974.070	975.018	975.966	975.808	975.650	974.663
82.5	1008.830	1008.652	1008.475	1008.652	1008.830	1009.304	1009.778	1009.541	1009.304	1008.791
85.0	1043.590	1043.393	1043.195	1043.393	1043.590	1043.590	1043.590	1043.274	1042.958	1042.919
87.5	1050.503	1050.364	1050.226	1050.246	1050.266	1050.147	1050.029	1049.871	1049.713	1049.772
90.0	1057.415	1057.336	1057.257	1057.099	1056.941	1056.704	1056.467	1056.467	1056.467	1056.625
92.5	1048.172	1048.587	1049.002	1048.863	1048.725	1048.666	1048.607	1048.705	1048.804	1048.903
95.0	1038.929	1039.838	1040.746	1040.628	1040.509	1040.628	1040.746	1040.944	1041.141	1041.181
97.5	1008.712	1009.087	1009.462	1009.344	1009.225	1009.344	1009.462	1009.620	1009.778	1009.719
100.0	978.494	978.336	978.178	978.060	977.941	978.060	978.178	978.297	978.415	978.257
102.5	943.300	943.142	942.984	942.924	942.865	942.845	942.826	942.944	943.063	943.418
105.0	908.105	907.947	907.789	907.789	907.789	907.631	907.473	907.592	907.710	908.579
107.5	856.439	856.400	856.360	856.360	856.360	856.242	856.123	856.202	856.281	856.637
110.0	804.773	804.852	804.931	804.931	804.931	804.852	804.773	804.813	804.852	804.694
112.5	748.525	748.466	748.407	748.446	748.486	748.505	748.525	748.071	747.617	747.636
115.0	692.277	692.080	691.882	691.961	692.040	692.159	692.277	691.329	690.381	690.579
117.5	647.050	646.990	646.931	646.911	646.892	646.971	647.050	646.655	646.260	646.339
120.0	601.822	601.901	601.980	601.862	601.743	601.783	601.822	601.980	602.138	602.099
122.5	566.470	566.628	566.786	566.667	566.549	566.588	566.628	566.608	566.588	566.667
125.0	531.117	531.354	531.591	531.473	531.354	531.394	531.433	531.236	531.038	531.236
127.5	507.180	507.279	507.378	507.318	507.259	507.318	507.378	507.259	507.141	507.358
130.0	483.243	483.204	483.164	483.164	483.164	483.243	483.322	483.283	483.243	483.480
132.5	449.905	450.142	450.379	450.438	450.498	450.577	450.656	450.498	450.340	450.517
135.0	416.567	417.081	417.594	417.713	417.831	417.910	417.989	417.713	417.436	417.555
137.5	402.861	403.236	403.611	403.532	403.453	403.493	403.532	403.354	403.177	403.433
140.0	389.154	389.391	389.628	389.352	389.075	389.075	389.075	388.996	388.917	389.312
142.5	373.828	373.907	373.986	373.808	373.631	373.670	373.710	373.571	373.433	373.808
145.0	358.502	358.423	358.344	358.265	358.186	358.265	358.344	358.147	357.949	358.305
147.5	353.091	352.913	352.735	352.873	353.012	353.031	353.051	352.893	352.735	352.933
150.0	347.679	347.403	347.126	347.482	347.837	347.798	347.758	347.640	347.521	347.561

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

CANDELA TABULATION - (Cont.)

152.5	338.278	338.179	338.081	338.140	338.199	338.357	338.515	338.278	338.041	338.239
155.0	328.877	328.956	329.035	328.798	328.561	328.917	329.272	328.917	328.561	328.917
157.5	321.056	321.076	321.096	321.115	321.135	321.214	321.293	321.234	321.175	321.352
160.0	313.235	313.196	313.156	313.433	313.709	313.512	313.314	313.551	313.788	313.788
162.5	309.246	309.107	308.969	309.246	309.522	309.404	309.285	309.285	309.285	309.285
165.0	305.256	305.019	304.782	305.059	305.335	305.296	305.256	305.019	304.782	304.782
167.5	299.924	299.983	300.042	300.022	300.003	299.983	299.963	299.884	299.805	299.825
170.0	294.591	294.947	295.302	294.986	294.670	294.670	294.670	294.749	294.828	294.868
172.5	292.261	292.261	292.261	292.201	292.142	292.103	292.063	292.201	292.340	292.280
175.0	289.930	289.575	289.219	289.417	289.614	289.535	289.456	289.654	289.851	289.693
177.5	293.209	293.031	292.853	292.952	293.051	293.011	292.972	293.070	293.169	293.090
180.0	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000

**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	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487
2.5	292.893	292.991	293.090	293.149	293.209	293.031	292.853	292.991	293.130	293.011
5.0	289.298	289.496	289.693	289.812	289.930	289.575	289.219	289.496	289.772	289.535
7.5	292.221	292.241	292.261	292.320	292.379	292.320	292.261	292.241	292.221	292.103
10.0	295.144	294.986	294.828	294.828	294.828	295.065	295.302	294.986	294.670	294.670
12.5	298.620	298.600	298.581	298.699	298.818	298.778	298.739	298.482	298.225	298.304
15.0	302.096	302.215	302.333	302.570	302.807	302.491	302.175	301.978	301.780	301.938
17.5	306.876	306.955	307.034	307.132	307.231	307.152	307.073	306.876	306.678	306.895
20.0	311.655	311.695	311.734	311.695	311.655	311.813	311.971	311.774	311.576	311.853
22.5	319.239	319.338	319.437	319.338	319.239	319.318	319.397	319.358	319.318	319.456
25.0	326.823	326.981	327.139	326.981	326.823	326.823	326.823	326.942	327.060	327.060
27.5	335.829	336.046	336.264	336.106	335.948	335.948	335.948	336.066	336.185	336.066
30.0	344.835	345.112	345.388	345.230	345.072	345.072	345.072	345.191	345.309	345.072
32.5	350.405	350.661	350.918	350.780	350.642	350.582	350.523	350.681	350.839	350.602
35.0	355.974	356.211	356.448	356.330	356.211	356.093	355.974	356.172	356.369	356.132
37.5	370.866	371.043	371.221	371.083	370.945	370.964	370.984	371.122	371.261	371.043
40.0	385.757	385.876	385.994	385.836	385.678	385.836	385.994	386.073	386.152	385.955
42.5	398.634	398.693	398.753	398.832	398.911	398.970	399.029	398.950	398.871	398.772
45.0	411.511	411.511	411.511	411.827	412.143	412.104	412.064	411.827	411.590	411.590
47.5	444.928	444.908	444.889	444.987	445.086	445.086	445.086	444.948	444.810	444.869
50.0	478.345	478.306	478.266	478.148	478.029	478.069	478.108	478.069	478.029	478.148
52.5	499.873	499.932	499.991	499.991	499.991	499.892	499.794	499.892	499.991	499.932
55.0	521.400	521.558	521.716	521.835	521.953	521.716	521.479	521.716	521.953	521.716
57.5	557.108	557.148	557.187	557.167	557.148	557.069	556.990	557.167	557.345	557.128
60.0	592.816	592.737	592.658	592.500	592.342	592.421	592.500	592.619	592.737	592.540
62.5	636.622	636.523	636.424	636.306	636.187	636.325	636.464	636.404	636.345	636.345
65.0	680.427	680.309	680.190	680.111	680.032	680.230	680.427	680.190	679.953	680.151
67.5	736.596	736.675	736.754	736.596	736.438	736.537	736.636	736.576	736.517	736.655
70.0	792.765	793.042	793.318	793.081	792.844	792.844	792.844	792.963	793.081	793.160
72.5	846.999	846.762	846.525	846.228	845.932	845.814	845.695	845.873	846.051	846.051
75.0	901.232	900.482	899.731	899.376	899.020	898.783	898.546	898.783	899.020	898.941
77.5	937.454	937.157	936.861	936.604	936.348	936.288	936.229	936.229	936.229	936.269
80.0	973.675	973.833	973.991	973.833	973.675	973.794	973.912	973.675	973.438	973.596
82.5	1008.277	1008.514	1008.751	1008.633	1008.514	1008.198	1007.882	1008.119	1008.356	1008.514
85.0	1042.879	1043.195	1043.511	1043.432	1043.353	1042.603	1041.852	1042.563	1043.274	1043.432
87.5	1049.831	1049.969	1050.108	1049.950	1049.792	1049.318	1048.844	1049.258	1049.673	1049.792
90.0	1056.783	1056.744	1056.704	1056.467	1056.230	1056.033	1055.835	1055.954	1056.072	1056.151
92.5	1049.002	1048.863	1048.725	1048.745	1048.765	1048.666	1048.567	1048.587	1048.607	1048.567
95.0	1041.220	1040.983	1040.746	1041.023	1041.299	1041.299	1041.299	1041.220	1041.141	1040.983
97.5	1009.660	1009.541	1009.423	1009.561	1009.699	1009.837	1009.976	1009.798	1009.620	1010.035

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

CANDELA TABULATION - (Cont.)

100.0	978.099	978.099	978.099	978.099	978.099	978.376	978.652	978.376	978.099	979.087
102.5	943.774	943.221	942.668	943.082	943.497	943.596	943.695	943.635	943.576	944.070
105.0	909.448	908.342	907.236	908.066	908.895	908.816	908.737	908.895	909.053	909.053
107.5	856.992	856.340	855.689	856.163	856.637	856.558	856.479	856.716	856.953	856.933
110.0	804.536	804.339	804.141	804.260	804.378	804.299	804.220	804.536	804.852	804.813
112.5	747.656	747.617	747.577	747.557	747.538	747.478	747.419	747.636	747.854	747.775
115.0	690.776	690.895	691.013	690.855	690.697	690.658	690.618	690.737	690.855	690.737
117.5	646.418	646.477	646.536	646.457	646.378	646.339	646.299	646.398	646.497	646.339
120.0	602.059	602.059	602.059	602.059	602.059	602.020	601.980	602.059	602.138	601.941
122.5	566.746	566.647	566.549	566.667	566.786	566.667	566.549	566.687	566.825	566.746
125.0	531.433	531.236	531.038	531.275	531.512	531.315	531.117	531.315	531.512	531.552
127.5	507.575	507.338	507.101	507.358	507.615	507.516	507.417	507.397	507.378	507.555
130.0	483.717	483.441	483.164	483.441	483.717	483.717	483.717	483.480	483.243	483.559
132.5	450.695	450.616	450.537	450.656	450.774	450.754	450.735	450.517	450.300	450.537
135.0	417.673	417.792	417.910	417.871	417.831	417.792	417.752	417.555	417.357	417.515
137.5	403.690	403.730	403.769	403.670	403.572	403.651	403.730	403.651	403.572	403.631
140.0	389.707	389.668	389.628	389.470	389.312	389.510	389.707	389.747	389.786	389.747
142.5	374.184	373.947	373.710	373.749	373.789	373.848	373.907	373.868	373.828	373.729
145.0	358.660	358.226	357.791	358.028	358.265	358.186	358.107	357.989	357.870	357.712
147.5	353.130	352.933	352.735	352.755	352.775	352.775	352.775	352.715	352.656	352.617
150.0	347.600	347.640	347.679	347.482	347.284	347.363	347.442	347.442	347.442	347.521
152.5	338.436	338.436	338.436	338.219	338.002	338.081	338.160	338.239	338.318	338.278
155.0	329.272	329.233	329.193	328.956	328.719	328.798	328.877	329.035	329.193	329.035
157.5	321.530	321.352	321.175	321.076	320.977	321.135	321.293	321.254	321.214	321.175
160.0	313.788	313.472	313.156	313.196	313.235	313.472	313.709	313.472	313.235	313.314
162.5	309.285	309.167	309.048	309.107	309.167	309.167	309.167	309.088	309.009	309.088
165.0	304.782	304.861	304.940	305.019	305.098	304.861	304.624	304.703	304.782	304.861
167.5	299.845	299.805	299.766	299.884	300.003	299.864	299.726	299.904	300.082	299.943
170.0	294.907	294.749	294.591	294.749	294.907	294.868	294.828	295.105	295.381	295.026
172.5	292.221	292.103	291.984	292.122	292.261	292.340	292.419	292.458	292.498	292.261
175.0	289.535	289.456	289.377	289.496	289.614	289.812	290.009	289.812	289.614	289.496
177.5	293.011	292.972	292.932	292.991	293.051	293.149	293.248	293.149	293.051	292.991
180.0	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000

Vert. Angles	Horizontal Angles									
	175.0	177.5	180.0	182.5	185.0	187.5	190.0	192.5	195.0	197.5
0.0	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487
2.5	292.893	292.893	292.893	293.031	293.169	293.011	292.853	292.932	293.011	293.070
5.0	289.298	289.298	289.298	289.575	289.851	289.535	289.219	289.377	289.535	289.654
7.5	291.984	292.043	292.103	292.320	292.537	292.320	292.103	292.162	292.221	292.320
10.0	294.670	294.789	294.907	295.065	295.223	295.105	294.986	294.947	294.907	294.986
12.5	298.383	298.442	298.502	298.581	298.660	298.640	298.620	298.502	298.383	298.660
15.0	302.096	302.096	302.096	302.096	302.096	302.175	302.254	302.057	301.859	302.333
17.5	307.113	307.113	307.113	307.113	307.113	307.172	307.231	307.093	306.955	307.073
20.0	312.129	312.129	312.129	312.129	312.129	312.169	312.208	312.129	312.050	311.813
22.5	319.595	319.555	319.516	319.496	319.476	319.555	319.634	319.437	319.239	319.200
25.0	327.060	326.981	326.902	326.863	326.823	326.942	327.060	326.744	326.428	326.586
27.5	335.948	336.066	336.185	336.165	336.145	336.244	336.343	336.125	335.908	336.046
30.0	344.835	345.151	345.467	345.467	345.467	345.546	345.625	345.507	345.388	345.507
32.5	350.365	350.681	350.997	350.898	350.800	350.859	350.918	350.839	350.760	350.839
35.0	355.895	356.211	356.527	356.330	356.132	356.172	356.211	356.172	356.132	356.172
37.5	370.826	371.043	371.261	371.083	370.905	370.885	370.866	371.004	371.142	371.024
40.0	385.757	385.876	385.994	385.836	385.678	385.599	385.520	385.836	386.152	385.876
42.5	398.674	398.772	398.871	398.753	398.634	398.535	398.437	398.792	399.148	398.891
45.0	411.590	411.669	411.748	411.669	411.590	411.472	411.353	411.748	412.143	411.906

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

CANDELA TABULATION - (Cont.)

47.5	444.928	444.494	444.059	444.355	444.652	444.652	444.652	444.770	444.889	444.810
50.0	478.266	477.318	476.370	477.042	477.713	477.832	477.950	477.792	477.634	477.713
52.5	499.873	499.399	498.925	499.339	499.754	499.715	499.675	499.695	499.715	499.754
55.0	521.479	521.479	521.479	521.637	521.795	521.598	521.400	521.598	521.795	521.795
57.5	556.911	557.009	557.108	557.207	557.306	557.167	557.029	557.207	557.385	557.286
60.0	592.342	592.540	592.737	592.777	592.816	592.737	592.658	592.816	592.974	592.777
62.5	636.345	636.404	636.464	636.385	636.306	636.385	636.464	636.483	636.503	636.385
65.0	680.348	680.269	680.190	679.993	679.795	680.032	680.269	680.151	680.032	679.993
67.5	736.794	736.794	736.794	736.636	736.478	736.517	736.557	736.675	736.794	736.754
70.0	793.239	793.318	793.397	793.279	793.160	793.002	792.844	793.200	793.555	793.516
72.5	846.051	845.952	845.853	845.833	845.814	845.814	845.814	846.051	846.288	846.248
75.0	898.862	898.586	898.309	898.388	898.467	898.625	898.783	898.902	899.020	898.981
77.5	936.308	936.288	936.269	936.328	936.387	936.348	936.308	936.407	936.506	936.348
80.0	973.754	973.991	974.228	974.268	974.307	974.070	973.833	973.912	973.991	973.715
82.5	1008.672	1008.731	1008.791	1008.810	1008.830	1008.771	1008.712	1008.317	1007.922	1008.060
85.0	1043.590	1043.472	1043.353	1043.353	1043.353	1043.472	1043.590	1042.721	1041.852	1042.405
87.5	1049.910	1049.831	1049.752	1049.732	1049.713	1049.811	1049.910	1049.495	1049.081	1049.357
90.0	1056.230	1056.191	1056.151	1056.112	1056.072	1056.151	1056.230	1056.270	1056.309	1056.309
92.5	1048.528	1048.488	1048.449	1048.449	1048.449	1048.468	1048.488	1048.666	1048.844	1048.844
95.0	1040.825	1040.786	1040.746	1040.786	1040.825	1040.786	1040.746	1041.062	1041.378	1041.378
97.5	1010.450	1009.976	1009.502	1009.956	1010.410	1009.995	1009.581	1009.719	1009.857	1009.798
100.0	980.074	979.166	978.257	979.126	979.995	979.205	978.415	978.376	978.336	978.218
102.5	944.564	944.030	943.497	944.011	944.524	944.090	943.655	943.675	943.695	943.714
105.0	909.053	908.895	908.737	908.895	909.053	908.974	908.895	908.974	909.053	909.211
107.5	856.913	856.814	856.716	856.735	856.755	856.656	856.558	856.735	856.913	856.834
110.0	804.773	804.734	804.694	804.576	804.457	804.339	804.220	804.497	804.773	804.457
112.5	747.696	747.696	747.696	747.577	747.459	747.498	747.538	747.597	747.656	747.597
115.0	690.618	690.658	690.697	690.579	690.460	690.658	690.855	690.697	690.539	690.737
117.5	646.181	646.358	646.536	646.457	646.378	646.457	646.536	646.378	646.220	646.378
120.0	601.743	602.059	602.375	602.336	602.296	602.257	602.217	602.059	601.901	602.020
122.5	566.667	566.845	567.023	566.983	566.944	566.805	566.667	566.608	566.549	566.608
125.0	531.591	531.631	531.670	531.631	531.591	531.354	531.117	531.157	531.196	531.196
127.5	507.733	507.713	507.694	507.674	507.654	507.476	507.299	507.378	507.457	507.378
130.0	483.875	483.796	483.717	483.717	483.717	483.599	483.480	483.599	483.717	483.559
132.5	450.774	450.853	450.932	450.814	450.695	450.557	450.419	450.636	450.853	450.754
135.0	417.673	417.910	418.147	417.910	417.673	417.515	417.357	417.673	417.989	417.950
137.5	403.690	403.690	403.690	403.670	403.651	403.414	403.177	403.433	403.690	403.651
140.0	389.707	389.470	389.233	389.431	389.628	389.312	388.996	389.194	389.391	389.352
142.5	373.631	373.571	373.512	373.729	373.947	373.631	373.315	373.552	373.789	373.690
145.0	357.554	357.673	357.791	358.028	358.265	357.949	357.633	357.910	358.186	358.028
147.5	352.577	352.636	352.696	352.755	352.814	352.617	352.419	352.676	352.933	352.873
150.0	347.600	347.600	347.600	347.482	347.363	347.284	347.205	347.442	347.679	347.719
152.5	338.239	338.199	338.160	338.160	338.160	338.041	337.923	338.100	338.278	338.377
155.0	328.877	328.798	328.719	328.838	328.956	328.798	328.640	328.759	328.877	329.035
157.5	321.135	320.997	320.859	321.017	321.175	321.115	321.056	321.175	321.293	321.392
160.0	313.393	313.196	312.998	313.196	313.393	313.433	313.472	313.591	313.709	313.749
162.5	309.167	308.989	308.811	308.930	309.048	309.226	309.404	309.364	309.325	309.285
165.0	304.940	304.782	304.624	304.664	304.703	305.019	305.335	305.138	304.940	304.822
167.5	299.805	299.766	299.726	299.845	299.963	300.121	300.279	300.180	300.082	299.983
170.0	294.670	294.749	294.828	295.026	295.223	295.223	295.223	295.223	295.223	295.144
172.5	292.024	292.063	292.103	292.320	292.537	292.438	292.340	292.340	292.340	292.399
175.0	289.377	289.377	289.377	289.614	289.851	289.654	289.456	289.456	289.456	289.654
177.5	292.932	292.932	292.932	293.051	293.169	293.070	292.972	292.972	292.972	293.070
180.0	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	200.0	202.5	205.0	207.5	210.0	212.5	215.0	217.5	220.0	222.5
0.0	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487
2.5	293.130	293.189	293.248	293.110	292.972	293.367	293.762	293.841	293.920	293.860
5.0	289.772	289.891	290.009	289.733	289.456	290.246	291.036	291.194	291.352	291.234
7.5	292.419	292.458	292.498	292.300	292.103	292.458	292.814	293.011	293.209	293.031
10.0	295.065	295.026	294.986	294.868	294.749	294.670	294.591	294.828	295.065	294.828
12.5	298.936	298.877	298.818	298.640	298.462	298.403	298.344	298.482	298.620	298.521
15.0	302.807	302.728	302.649	302.412	302.175	302.136	302.096	302.136	302.175	302.215
17.5	307.192	307.152	307.113	307.113	307.113	307.073	307.034	307.113	307.192	307.034
20.0	311.576	311.576	311.576	311.813	312.050	312.011	311.971	312.090	312.208	311.853
22.5	319.160	319.140	319.121	319.298	319.476	319.456	319.437	319.634	319.832	319.634
25.0	326.744	326.705	326.665	326.784	326.902	326.902	326.902	327.179	327.455	327.416
27.5	336.185	336.046	335.908	336.086	336.264	336.185	336.106	336.145	336.185	336.323
30.0	345.625	345.388	345.151	345.388	345.625	345.467	345.309	345.112	344.914	345.230
32.5	350.918	350.800	350.681	350.760	350.839	350.780	350.721	350.563	350.405	350.622
35.0	356.211	356.211	356.211	356.132	356.053	356.093	356.132	356.014	355.895	356.014
37.5	370.905	371.004	371.103	371.043	370.984	370.964	370.945	370.984	371.024	370.925
40.0	385.599	385.797	385.994	385.955	385.915	385.836	385.757	385.955	386.152	385.836
42.5	398.634	398.693	398.753	398.713	398.674	398.674	398.674	398.911	399.148	398.911
45.0	411.669	411.590	411.511	411.472	411.432	411.511	411.590	411.867	412.143	411.985
47.5	444.731	444.671	444.612	444.592	444.573	444.573	444.573	444.750	444.928	445.007
50.0	477.792	477.753	477.713	477.713	477.713	477.634	477.555	477.634	477.713	478.029
52.5	499.794	499.695	499.596	499.636	499.675	499.557	499.438	499.576	499.715	499.873
55.0	521.795	521.637	521.479	521.558	521.637	521.479	521.321	521.519	521.716	521.716
57.5	557.187	557.108	557.029	556.970	556.911	556.950	556.990	557.108	557.227	557.108
60.0	592.579	592.579	592.579	592.382	592.184	592.421	592.658	592.698	592.737	592.500
62.5	636.266	636.246	636.227	636.286	636.345	636.365	636.385	636.365	636.345	635.930
65.0	679.953	679.914	679.874	680.190	680.506	680.309	680.111	680.032	679.953	679.361
67.5	736.715	736.715	736.715	736.813	736.912	736.833	736.754	736.675	736.596	736.715
70.0	793.476	793.516	793.555	793.437	793.318	793.358	793.397	793.318	793.239	794.069
72.5	846.209	846.584	846.959	847.078	847.196	847.255	847.315	847.078	846.841	847.275
75.0	898.941	899.652	900.363	900.719	901.074	901.153	901.232	900.837	900.442	900.482
77.5	936.190	936.506	936.822	937.217	937.612	937.947	938.283	938.145	938.007	937.730
80.0	973.438	973.359	973.280	973.715	974.149	974.742	975.334	975.453	975.571	974.979
82.5	1008.198	1008.178	1008.159	1008.396	1008.633	1008.988	1009.344	1009.383	1009.423	1009.166
85.0	1042.958	1042.998	1043.037	1043.077	1043.116	1043.235	1043.353	1043.314	1043.274	1043.353
87.5	1049.634	1049.713	1049.792	1049.890	1049.989	1049.890	1049.792	1049.910	1050.029	1050.029
90.0	1056.309	1056.428	1056.546	1056.704	1056.862	1056.546	1056.230	1056.507	1056.783	1056.704
92.5	1048.844	1048.883	1048.923	1049.002	1049.081	1048.784	1048.488	1048.626	1048.765	1048.666
95.0	1041.378	1041.339	1041.299	1041.299	1041.299	1041.023	1040.746	1040.746	1040.746	1040.628
97.5	1009.739	1009.699	1009.660	1009.818	1009.976	1009.837	1009.699	1009.699	1009.699	1009.600
100.0	978.099	978.060	978.020	978.336	978.652	978.652	978.652	978.652	978.652	978.573
102.5	943.734	943.319	942.905	943.398	943.892	943.458	943.023	943.142	943.260	943.280
105.0	909.369	908.579	907.789	908.461	909.132	908.263	907.394	907.631	907.868	907.987
107.5	856.755	856.360	855.965	856.301	856.637	856.321	856.005	856.182	856.360	856.400
110.0	804.141	804.141	804.141	804.141	804.141	804.378	804.615	804.734	804.852	804.813
112.5	747.538	747.399	747.261	747.419	747.577	747.656	747.735	748.110	748.486	748.426
115.0	690.934	690.658	690.381	690.697	691.013	690.934	690.855	691.487	692.119	692.040
117.5	646.536	646.477	646.418	646.497	646.576	646.497	646.418	646.852	647.287	647.069
120.0	602.138	602.296	602.454	602.296	602.138	602.059	601.980	602.217	602.454	602.099
122.5	566.667	566.707	566.746	566.786	566.825	566.766	566.707	566.786	566.865	566.766
125.0	531.196	531.117	531.038	531.275	531.512	531.473	531.433	531.354	531.275	531.433
127.5	507.299	507.378	507.457	507.595	507.733	507.713	507.694	507.476	507.259	507.496
130.0	483.401	483.638	483.875	483.915	483.954	483.954	483.954	483.599	483.243	483.559

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

CANDELA TABULATION - (Cont.)

132.5	450.656	450.675	450.695	450.695	450.695	450.814	450.932	450.774	450.616	450.735
135.0	417.910	417.713	417.515	417.476	417.436	417.673	417.910	417.950	417.989	417.910
137.5	403.611	403.473	403.335	403.453	403.572	403.690	403.809	403.710	403.611	403.552
140.0	389.312	389.233	389.154	389.431	389.707	389.707	389.707	389.470	389.233	389.194
142.5	373.591	373.611	373.631	373.769	373.907	373.907	373.907	373.729	373.552	373.492
145.0	357.870	357.989	358.107	358.107	358.107	358.107	358.107	357.989	357.870	357.791
147.5	352.814	352.775	352.735	352.834	352.933	352.952	352.972	352.814	352.656	352.518
150.0	347.758	347.561	347.363	347.561	347.758	347.798	347.837	347.640	347.442	347.245
152.5	338.476	338.278	338.081	338.239	338.397	338.476	338.555	338.318	338.081	338.100
155.0	329.193	328.996	328.798	328.917	329.035	329.154	329.272	328.996	328.719	328.956
157.5	321.491	321.194	320.898	321.115	321.333	321.431	321.530	321.234	320.938	321.175
160.0	313.788	313.393	312.998	313.314	313.630	313.709	313.788	313.472	313.156	313.393
162.5	309.246	309.206	309.167	309.246	309.325	309.305	309.285	309.265	309.246	309.186
165.0	304.703	305.019	305.335	305.177	305.019	304.901	304.782	305.059	305.335	304.980
167.5	299.884	300.042	300.200	300.003	299.805	299.766	299.726	299.845	299.963	299.805
170.0	295.065	295.065	295.065	294.828	294.591	294.631	294.670	294.631	294.591	294.631
172.5	292.458	292.320	292.182	292.043	291.905	292.083	292.261	292.241	292.221	292.261
175.0	289.851	289.575	289.298	289.259	289.219	289.535	289.851	289.851	289.851	289.891
177.5	293.169	293.031	292.893	292.873	292.853	293.011	293.169	293.169	293.169	293.189
180.0	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000

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	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487
2.5	293.801	293.841	293.880	293.742	293.604	293.722	293.841	293.801	293.762	293.841
5.0	291.115	291.194	291.273	290.997	290.720	290.957	291.194	291.115	291.036	291.194
7.5	292.853	292.991	293.130	293.031	292.932	292.952	292.972	292.932	292.893	292.972
10.0	294.591	294.789	294.986	295.065	295.144	294.947	294.749	294.749	294.749	294.749
12.5	298.423	298.561	298.699	298.660	298.620	298.916	299.213	299.272	299.331	299.351
15.0	302.254	302.333	302.412	302.254	302.096	302.886	303.676	303.795	303.913	303.953
17.5	306.876	307.014	307.152	307.053	306.955	307.330	307.705	307.764	307.824	307.883
20.0	311.497	311.695	311.892	311.853	311.813	311.774	311.734	311.734	311.734	311.813
22.5	319.437	319.417	319.397	319.318	319.239	319.298	319.358	319.318	319.279	319.516
25.0	327.376	327.139	326.902	326.784	326.665	326.823	326.981	326.902	326.823	327.218
27.5	336.461	336.264	336.066	336.046	336.027	335.987	335.948	336.046	336.145	336.204
30.0	345.546	345.388	345.230	345.309	345.388	345.151	344.914	345.191	345.467	345.191
32.5	350.839	350.721	350.602	350.681	350.760	350.602	350.444	350.938	351.432	351.432
35.0	356.132	356.053	355.974	356.053	356.132	356.053	355.974	356.685	357.396	357.673
37.5	370.826	370.846	370.866	370.905	370.945	370.945	370.945	371.083	371.221	371.498
40.0	385.520	385.639	385.757	385.757	385.757	385.836	385.915	385.481	385.046	385.323
42.5	398.674	398.753	398.832	399.167	399.503	399.543	399.582	399.444	399.306	399.266
45.0	411.827	411.867	411.906	412.578	413.249	413.249	413.249	413.407	413.565	413.210
47.5	445.086	444.533	443.980	444.454	444.928	444.908	444.889	445.007	445.126	444.948
50.0	478.345	477.200	476.054	476.331	476.607	476.568	476.528	476.607	476.686	476.686
52.5	500.031	499.853	499.675	499.774	499.873	499.813	499.754	499.853	499.952	499.991
55.0	521.716	522.506	523.296	523.217	523.138	523.059	522.980	523.099	523.217	523.296
57.5	556.990	557.464	557.938	557.859	557.780	557.839	557.898	557.938	557.977	557.938
60.0	592.263	592.421	592.579	592.500	592.421	592.619	592.816	592.777	592.737	592.579
62.5	635.516	635.555	635.595	635.555	635.516	635.654	635.792	635.693	635.595	635.634
65.0	678.768	678.689	678.610	678.610	678.610	678.689	678.768	678.610	678.452	678.689
67.5	736.833	736.734	736.636	736.320	736.004	735.944	735.885	735.944	736.004	735.984
70.0	794.898	794.780	794.661	794.029	793.397	793.200	793.002	793.279	793.555	793.279
72.5	847.710	847.650	847.591	847.315	847.038	846.860	846.683	846.900	847.117	846.939
75.0	900.521	900.521	900.521	900.600	900.679	900.521	900.363	900.521	900.679	900.600
77.5	937.454	937.296	937.138	937.256	937.375	937.256	937.138	937.197	937.256	937.335

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

CANDELA TABULATION - (Cont.)

80.0	974.386	974.070	973.754	973.912	974.070	973.991	973.912	973.873	973.833	974.070
82.5	1008.909	1008.712	1008.514	1008.534	1008.554	1008.810	1009.067	1009.047	1009.028	1009.166
85.0	1043.432	1043.353	1043.274	1043.156	1043.037	1043.630	1044.222	1044.222	1044.222	1044.262
87.5	1050.029	1050.266	1050.503	1050.443	1050.384	1050.621	1050.858	1050.878	1050.898	1050.858
90.0	1056.625	1057.178	1057.731	1057.731	1057.731	1057.613	1057.494	1057.534	1057.573	1057.455
92.5	1048.567	1048.923	1049.278	1048.844	1048.409	1048.705	1049.002	1049.100	1049.199	1049.081
95.0	1040.509	1040.667	1040.825	1039.956	1039.087	1039.798	1040.509	1040.667	1040.825	1040.707
97.5	1009.502	1009.482	1009.462	1009.047	1008.633	1009.087	1009.541	1009.541	1009.541	1009.462
100.0	978.494	978.297	978.099	978.139	978.178	978.376	978.573	978.415	978.257	978.218
102.5	943.300	943.102	942.905	943.082	943.260	943.240	943.221	943.082	942.944	942.924
105.0	908.105	907.908	907.710	908.026	908.342	908.105	907.868	907.750	907.631	907.631
107.5	856.439	856.222	856.005	856.281	856.558	856.340	856.123	856.400	856.676	856.340
110.0	804.773	804.536	804.299	804.536	804.773	804.576	804.378	805.050	805.721	805.050
112.5	748.367	748.347	748.328	748.387	748.446	748.367	748.288	748.624	748.960	748.328
115.0	691.961	692.159	692.356	692.238	692.119	692.159	692.198	692.198	692.198	691.606
117.5	646.852	646.990	647.129	647.089	647.050	647.050	647.050	647.069	647.089	646.892
120.0	601.743	601.822	601.901	601.941	601.980	601.941	601.901	601.941	601.980	602.178
122.5	566.667	566.687	566.707	566.746	566.786	566.608	566.430	566.489	566.549	566.766
125.0	531.591	531.552	531.512	531.552	531.591	531.275	530.959	531.038	531.117	531.354
127.5	507.733	507.476	507.220	507.457	507.694	507.378	507.062	507.160	507.259	507.417
130.0	483.875	483.401	482.927	483.362	483.796	483.480	483.164	483.283	483.401	483.480
132.5	450.853	450.577	450.300	450.221	450.142	450.399	450.656	450.300	449.945	449.964
135.0	417.831	417.752	417.673	417.081	416.488	417.318	418.147	417.318	416.488	416.449
137.5	403.493	403.473	403.453	403.117	402.782	403.315	403.848	403.414	402.979	402.979
140.0	389.154	389.194	389.233	389.154	389.075	389.312	389.549	389.510	389.470	389.510
142.5	373.433	373.532	373.631	373.710	373.789	373.808	373.828	373.868	373.907	373.887
145.0	357.712	357.870	358.028	358.265	358.502	358.305	358.107	358.226	358.344	358.265
147.5	352.380	352.577	352.775	352.972	353.170	353.071	352.972	352.972	352.972	352.873
150.0	347.047	347.284	347.521	347.679	347.837	347.837	347.837	347.719	347.600	347.482
152.5	338.120	338.081	338.041	338.239	338.436	338.397	338.357	338.337	338.318	338.318
155.0	329.193	328.877	328.561	328.798	329.035	328.956	328.877	328.956	329.035	329.154
157.5	321.412	321.194	320.977	321.096	321.214	321.254	321.293	321.293	321.293	320.918
160.0	313.630	313.512	313.393	313.393	313.393	313.551	313.709	313.630	313.551	312.682
162.5	309.127	309.246	309.364	309.285	309.206	309.325	309.443	309.384	309.325	308.910
165.0	304.624	304.980	305.335	305.177	305.019	305.098	305.177	305.138	305.098	305.138
167.5	299.647	299.943	300.240	300.042	299.845	299.943	300.042	299.943	299.845	299.884
170.0	294.670	294.907	295.144	294.907	294.670	294.789	294.907	294.749	294.591	294.631
172.5	292.300	292.300	292.300	292.280	292.261	292.340	292.419	292.241	292.063	292.083
175.0	289.930	289.693	289.456	289.654	289.851	289.891	289.930	289.733	289.535	289.535
177.5	293.209	293.090	292.972	293.070	293.169	293.189	293.209	293.110	293.011	293.011
180.0	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000

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	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487
2.5	293.920	293.762	293.604	293.762	293.920	293.880	293.841	293.742	293.643	293.623
5.0	291.352	291.036	290.720	291.036	291.352	291.273	291.194	290.997	290.799	290.760
7.5	293.051	292.991	292.932	292.991	293.051	293.090	293.130	293.090	293.051	292.991
10.0	294.749	294.947	295.144	294.947	294.749	294.907	295.065	295.184	295.302	295.223
12.5	299.371	299.529	299.687	299.568	299.450	299.390	299.331	299.390	299.450	299.450
15.0	303.992	304.111	304.229	304.190	304.150	303.874	303.597	303.597	303.597	303.676
17.5	307.942	307.922	307.903	308.001	308.100	307.903	307.705	307.784	307.863	307.784
20.0	311.892	311.734	311.576	311.813	312.050	311.932	311.813	311.971	312.129	311.892
22.5	319.753	319.496	319.239	319.456	319.674	319.654	319.634	319.674	319.713	319.516
25.0	327.613	327.258	326.902	327.100	327.297	327.376	327.455	327.376	327.297	327.139

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

CANDELA TABULATION - (Cont.)

27.5	336.264	336.185	336.106	336.204	336.303	336.264	336.224	336.283	336.343	336.185
30.0	344.914	345.112	345.309	345.309	345.309	345.151	344.993	345.191	345.388	345.230
32.5	351.432	351.392	351.353	350.977	350.602	350.523	350.444	350.681	350.918	350.721
35.0	357.949	357.673	357.396	356.646	355.895	355.895	355.895	356.172	356.448	356.211
37.5	371.774	371.517	371.261	371.043	370.826	370.767	370.708	370.787	370.866	370.866
40.0	385.599	385.362	385.125	385.441	385.757	385.639	385.520	385.402	385.283	385.520
42.5	399.227	399.246	399.266	399.345	399.424	399.444	399.464	399.523	399.582	399.543
45.0	412.854	413.131	413.407	413.249	413.091	413.249	413.407	413.644	413.881	413.565
47.5	444.770	444.770	444.770	444.691	444.612	444.770	444.928	445.126	445.323	445.047
50.0	476.686	476.410	476.133	476.133	476.133	476.291	476.449	476.607	476.765	476.528
52.5	500.031	499.873	499.715	499.655	499.596	499.813	500.031	500.090	500.149	500.050
55.0	523.375	523.336	523.296	523.178	523.059	523.336	523.612	523.573	523.533	523.573
57.5	557.898	557.977	558.056	557.977	557.898	557.957	558.017	557.977	557.938	557.997
60.0	592.421	592.619	592.816	592.777	592.737	592.579	592.421	592.382	592.342	592.421
62.5	635.674	635.733	635.792	635.733	635.674	636.227	636.780	636.760	636.740	636.819
65.0	678.926	678.847	678.768	678.689	678.610	679.874	681.138	681.138	681.138	681.217
67.5	735.964	736.300	736.636	736.438	736.241	736.932	737.623	737.663	737.702	737.643
70.0	793.002	793.753	794.503	794.187	793.871	793.990	794.108	794.187	794.266	794.069
72.5	846.762	847.552	848.342	848.263	848.184	847.729	847.275	847.789	848.302	847.868
75.0	900.521	901.351	902.180	902.338	902.496	901.469	900.442	901.390	902.338	901.667
77.5	937.414	937.789	938.165	938.698	939.231	938.955	938.678	939.132	939.587	939.251
80.0	974.307	974.228	974.149	975.058	975.966	976.440	976.914	976.875	976.835	976.835
82.5	1009.304	1009.620	1009.936	1010.410	1010.884	1011.062	1011.240	1011.180	1011.121	1011.240
85.0	1044.301	1045.012	1045.723	1045.763	1045.802	1045.684	1045.565	1045.486	1045.407	1045.644
87.5	1050.819	1050.977	1051.135	1050.957	1050.779	1050.878	1050.977	1050.819	1050.661	1050.799
90.0	1057.336	1056.941	1056.546	1056.151	1055.756	1056.072	1056.388	1056.151	1055.914	1055.954
92.5	1048.962	1048.350	1047.738	1047.481	1047.224	1047.540	1047.856	1047.619	1047.382	1047.362
95.0	1040.588	1039.759	1038.929	1038.811	1038.692	1039.008	1039.324	1039.087	1038.850	1038.771
97.5	1009.383	1009.186	1008.988	1008.929	1008.870	1008.929	1008.988	1008.791	1008.593	1008.554
100.0	978.178	978.613	979.047	979.047	979.047	978.850	978.652	978.494	978.336	978.336
102.5	942.905	943.201	943.497	943.339	943.181	943.122	943.063	942.944	942.826	942.984
105.0	907.631	907.789	907.947	907.631	907.315	907.394	907.473	907.394	907.315	907.631
107.5	856.005	856.123	856.242	856.123	856.005	855.945	855.886	855.965	856.044	856.064
110.0	804.378	804.457	804.536	804.615	804.694	804.497	804.299	804.536	804.773	804.497
112.5	747.696	747.459	747.222	747.281	747.340	747.202	747.064	747.478	747.893	747.577
115.0	691.013	690.460	689.907	689.947	689.986	689.907	689.828	690.421	691.013	690.658
117.5	646.694	646.339	645.983	646.042	646.102	646.082	646.062	646.398	646.734	646.457
120.0	602.375	602.217	602.059	602.138	602.217	602.257	602.296	602.375	602.454	602.257
122.5	566.983	566.628	566.272	566.331	566.391	566.430	566.470	566.470	566.470	566.252
125.0	531.591	531.038	530.485	530.525	530.564	530.604	530.643	530.564	530.485	530.248
127.5	507.575	506.825	506.074	506.272	506.469	506.370	506.272	506.331	506.390	506.153
130.0	483.559	482.611	481.663	482.019	482.374	482.137	481.900	482.098	482.295	482.058
132.5	449.984	449.787	449.589	449.767	449.945	449.471	448.997	449.530	450.063	449.668
135.0	416.409	416.962	417.515	417.515	417.515	416.804	416.093	416.962	417.831	417.278
137.5	402.979	403.078	403.177	403.295	403.414	402.940	402.466	402.880	403.295	403.038
140.0	389.549	389.194	388.838	389.075	389.312	389.075	388.838	388.799	388.759	388.799
142.5	373.868	373.650	373.433	373.631	373.828	373.789	373.749	373.650	373.552	373.650
145.0	358.186	358.107	358.028	358.186	358.344	358.502	358.660	358.502	358.344	358.502
147.5	352.775	352.794	352.814	352.992	353.170	352.873	352.577	352.518	352.459	352.597
150.0	347.363	347.482	347.600	347.798	347.995	347.245	346.494	346.534	346.573	346.692
152.5	338.318	338.357	338.397	338.574	338.752	338.397	338.041	337.923	337.804	338.002
155.0	329.272	329.233	329.193	329.351	329.509	329.549	329.588	329.312	329.035	329.312
157.5	320.543	320.464	320.385	320.582	320.780	320.819	320.859	320.622	320.385	320.464
160.0	311.813	311.695	311.576	311.813	312.050	312.090	312.129	311.932	311.734	311.616
162.5	308.495	308.100	307.705	307.922	308.140	308.100	308.061	308.041	308.021	307.863
165.0	305.177	304.506	303.834	304.032	304.229	304.111	303.992	304.150	304.308	304.111

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

CANDELA TABULATION - (Cont.)

167.5	299.924	299.410	298.897	298.995	299.094	298.976	298.857	298.916	298.976	299.035
170.0	294.670	294.315	293.959	293.959	293.959	293.841	293.722	293.683	293.643	293.959
172.5	292.103	292.142	292.182	292.142	292.103	292.024	291.945	291.846	291.747	291.866
175.0	289.535	289.970	290.404	290.325	290.246	290.207	290.167	290.009	289.851	289.772
177.5	293.011	293.228	293.446	293.406	293.367	293.347	293.327	293.248	293.169	293.130
180.0	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000

**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	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487
2.5	293.604	293.683	293.762	293.801	293.841	293.742	293.643	293.683	293.722	293.683
5.0	290.720	290.878	291.036	291.115	291.194	290.997	290.799	290.878	290.957	290.878
7.5	292.932	292.952	292.972	293.070	293.169	293.090	293.011	293.070	293.130	293.011
10.0	295.144	295.026	294.907	295.026	295.144	295.184	295.223	295.263	295.302	295.144
12.5	299.450	299.430	299.410	299.568	299.726	299.647	299.568	299.608	299.647	299.588
15.0	303.755	303.834	303.913	304.111	304.308	304.111	303.913	303.953	303.992	304.032
17.5	307.705	307.824	307.942	308.100	308.258	307.982	307.705	307.745	307.784	307.962
20.0	311.655	311.813	311.971	312.090	312.208	311.853	311.497	311.537	311.576	311.892
22.5	319.318	319.377	319.437	319.496	319.555	319.377	319.200	319.219	319.239	319.437
25.0	326.981	326.942	326.902	326.902	326.902	326.902	326.902	326.902	326.902	326.981
27.5	336.027	335.987	335.948	335.967	335.987	335.928	335.869	336.046	336.224	336.086
30.0	345.072	345.033	344.993	345.033	345.072	344.954	344.835	345.191	345.546	345.191
32.5	350.523	350.484	350.444	350.977	351.511	351.313	351.116	351.392	351.669	351.135
35.0	355.974	355.935	355.895	356.922	357.949	357.673	357.396	357.594	357.791	357.080
37.5	370.866	370.767	370.668	371.241	371.814	371.695	371.577	371.616	371.656	371.300
40.0	385.757	385.599	385.441	385.560	385.678	385.718	385.757	385.639	385.520	385.520
42.5	399.503	399.365	399.227	399.286	399.345	399.483	399.622	399.404	399.187	399.306
45.0	413.249	413.131	413.012	413.012	413.012	413.249	413.486	413.170	412.854	413.091
47.5	444.770	444.731	444.691	444.671	444.652	444.869	445.086	444.889	444.691	444.770
50.0	476.291	476.331	476.370	476.331	476.291	476.489	476.686	476.607	476.528	476.449
52.5	499.952	499.833	499.715	499.695	499.675	499.892	500.110	499.971	499.833	499.892
55.0	523.612	523.336	523.059	523.059	523.059	523.296	523.533	523.336	523.138	523.336
57.5	558.056	557.859	557.661	557.681	557.701	557.977	558.254	558.036	557.819	557.957
60.0	592.500	592.382	592.263	592.303	592.342	592.658	592.974	592.737	592.500	592.579
62.5	636.898	636.246	635.595	635.437	635.279	635.595	635.911	635.812	635.713	635.595
65.0	681.296	680.111	678.926	678.571	678.215	678.531	678.847	678.887	678.926	678.610
67.5	737.584	737.050	736.517	736.300	736.083	735.964	735.846	735.944	736.043	735.826
70.0	793.871	793.990	794.108	794.029	793.950	793.397	792.844	793.002	793.160	793.042
72.5	847.433	847.828	848.223	848.223	848.223	847.433	846.643	846.742	846.841	846.880
75.0	900.995	901.667	902.338	902.417	902.496	901.469	900.442	900.482	900.521	900.719
77.5	938.915	938.856	938.797	938.540	938.283	937.750	937.217	937.217	937.217	937.414
80.0	976.835	976.045	975.255	974.663	974.070	974.031	973.991	973.952	973.912	974.110
82.5	1011.358	1010.864	1010.371	1010.134	1009.897	1009.462	1009.028	1009.087	1009.146	1009.225
85.0	1045.881	1045.684	1045.486	1045.605	1045.723	1044.894	1044.064	1044.222	1044.380	1044.341
87.5	1050.937	1050.838	1050.740	1050.858	1050.977	1050.996	1051.016	1050.937	1050.858	1050.858
90.0	1055.993	1055.993	1055.993	1056.112	1056.230	1057.099	1057.968	1057.652	1057.336	1057.376
92.5	1047.343	1047.343	1047.343	1047.441	1047.540	1048.370	1049.199	1049.002	1048.804	1048.962
95.0	1038.692	1038.692	1038.692	1038.771	1038.850	1039.640	1040.430	1040.351	1040.272	1040.549
97.5	1008.514	1008.692	1008.870	1008.751	1008.633	1009.087	1009.541	1009.462	1009.383	1009.363
100.0	978.336	978.692	979.047	978.731	978.415	978.534	978.652	978.573	978.494	978.178
102.5	943.142	943.161	943.181	943.082	942.984	943.181	943.379	943.260	943.142	943.023
105.0	907.947	907.631	907.315	907.434	907.552	907.829	908.105	907.947	907.789	907.868
107.5	856.084	856.084	856.084	856.064	856.044	856.182	856.321	856.637	856.953	856.676
110.0	804.220	804.536	804.852	804.694	804.536	804.536	804.536	805.326	806.116	805.484
112.5	747.261	747.301	747.340	747.399	747.459	747.597	747.735	748.407	749.078	748.723

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

CANDELA TABULATION - (Cont.)

115.0	690.302	690.065	689.828	690.105	690.381	690.658	690.934	691.487	692.040	691.961
117.5	646.181	646.003	645.825	646.062	646.299	646.477	646.655	646.971	647.287	647.089
120.0	602.059	601.941	601.822	602.020	602.217	602.296	602.375	602.454	602.533	602.217
122.5	566.035	566.075	566.114	566.213	566.312	566.489	566.667	566.865	567.062	566.845
125.0	530.011	530.209	530.406	530.406	530.406	530.683	530.959	531.275	531.591	531.473
127.5	505.916	506.153	506.390	506.272	506.153	506.667	507.180	507.239	507.299	507.180
130.0	481.821	482.098	482.374	482.137	481.900	482.651	483.401	483.204	483.006	482.888
132.5	449.273	449.747	450.221	450.142	450.063	449.945	449.826	449.708	449.589	449.945
135.0	416.725	417.397	418.068	418.147	418.226	417.239	416.251	416.212	416.172	417.002
137.5	402.782	403.137	403.493	403.453	403.414	402.999	402.584	402.683	402.782	403.216
140.0	388.838	388.878	388.917	388.759	388.601	388.759	388.917	389.154	389.391	389.431
142.5	373.749	373.749	373.749	373.611	373.473	373.492	373.512	373.670	373.828	373.887
145.0	358.660	358.621	358.581	358.463	358.344	358.226	358.107	358.186	358.265	358.344
147.5	352.735	352.952	353.170	353.229	353.288	352.972	352.656	352.854	353.051	352.972
150.0	346.810	347.284	347.758	347.995	348.232	347.719	347.205	347.521	347.837	347.600
152.5	338.199	338.377	338.555	338.634	338.713	338.476	338.239	338.357	338.476	338.337
155.0	329.588	329.470	329.351	329.272	329.193	329.233	329.272	329.193	329.114	329.075
157.5	320.543	320.543	320.543	320.622	320.701	320.681	320.661	320.898	321.135	321.155
160.0	311.497	311.616	311.734	311.971	312.208	312.129	312.050	312.603	313.156	313.235
162.5	307.705	307.764	307.824	307.962	308.100	308.416	308.732	308.910	309.088	309.088
165.0	303.913	303.913	303.913	303.953	303.992	304.703	305.414	305.217	305.019	304.940
167.5	299.094	299.015	298.936	298.877	298.818	299.568	300.319	300.082	299.845	299.785
170.0	294.275	294.117	293.959	293.801	293.643	294.433	295.223	294.947	294.670	294.631
172.5	291.984	292.024	292.063	291.905	291.747	292.103	292.458	292.359	292.261	292.221
175.0	289.693	289.930	290.167	290.009	289.851	289.772	289.693	289.772	289.851	289.812
177.5	293.090	293.209	293.327	293.248	293.169	293.130	293.090	293.130	293.169	293.149
180.0	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000

**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	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487
2.5	293.643	293.722	293.801	293.781	293.762	293.722	293.683	293.683	293.683	293.762
5.0	290.799	290.957	291.115	291.076	291.036	290.957	290.878	290.878	290.878	291.036
7.5	292.893	292.932	292.972	292.932	292.893	292.991	293.090	292.932	292.774	292.912
10.0	294.986	294.907	294.828	294.789	294.749	295.026	295.302	294.986	294.670	294.789
12.5	299.529	298.936	298.344	298.363	298.383	298.600	298.818	298.660	298.502	298.462
15.0	304.071	302.965	301.859	301.938	302.017	302.175	302.333	302.333	302.333	302.136
17.5	308.140	307.409	306.678	306.777	306.876	307.014	307.152	307.034	306.915	306.955
20.0	312.208	311.853	311.497	311.616	311.734	311.853	311.971	311.734	311.497	311.774
22.5	319.634	319.298	318.963	319.061	319.160	319.279	319.397	319.318	319.239	319.239
25.0	327.060	326.744	326.428	326.507	326.586	326.705	326.823	326.902	326.981	326.705
27.5	335.948	335.888	335.829	335.869	335.908	335.987	336.066	335.987	335.908	335.928
30.0	344.835	345.033	345.230	345.230	345.230	345.270	345.309	345.072	344.835	345.151
32.5	350.602	350.642	350.681	350.760	350.839	350.780	350.721	350.602	350.484	350.740
35.0	356.369	356.251	356.132	356.290	356.448	356.290	356.132	356.132	356.132	356.330
37.5	370.945	370.885	370.826	371.063	371.300	371.182	371.063	371.004	370.945	371.142
40.0	385.520	385.520	385.520	385.836	386.152	386.073	385.994	385.876	385.757	385.955
42.5	399.424	399.365	399.306	399.207	399.108	399.088	399.069	398.871	398.674	398.772
45.0	413.328	413.210	413.091	412.578	412.064	412.104	412.143	411.867	411.590	411.590
47.5	444.849	444.829	444.810	444.434	444.059	444.592	445.126	445.007	444.889	444.829
50.0	476.370	476.449	476.528	476.291	476.054	477.081	478.108	478.148	478.187	478.069
52.5	499.952	499.892	499.833	499.734	499.636	499.833	500.031	500.090	500.149	499.912
55.0	523.533	523.336	523.138	523.178	523.217	522.585	521.953	522.032	522.111	521.756
57.5	558.096	557.938	557.780	557.799	557.819	557.503	557.187	557.365	557.543	557.325
60.0	592.658	592.540	592.421	592.421	592.421	592.421	592.421	592.698	592.974	592.895

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

CANDELA TABULATION - (Cont.)

62.5	635.476	635.456	635.437	635.535	635.634	635.535	635.437	636.049	636.661	636.582
65.0	678.294	678.373	678.452	678.650	678.847	678.650	678.452	679.400	680.348	680.269
67.5	735.609	735.628	735.648	736.142	736.636	736.537	736.438	736.675	736.912	736.695
70.0	792.923	792.884	792.844	793.634	794.424	794.424	794.424	793.950	793.476	793.121
72.5	846.920	846.781	846.643	847.097	847.552	847.631	847.710	847.492	847.275	847.058
75.0	900.916	900.679	900.442	900.561	900.679	900.837	900.995	901.035	901.074	900.995
77.5	937.612	937.375	937.138	937.256	937.375	937.394	937.414	937.947	938.481	938.421
80.0	974.307	974.070	973.833	973.952	974.070	973.952	973.833	974.860	975.887	975.848
82.5	1009.304	1009.028	1008.751	1008.751	1008.751	1008.633	1008.514	1008.988	1009.462	1009.561
85.0	1044.301	1043.985	1043.669	1043.551	1043.432	1043.314	1043.195	1043.116	1043.037	1043.274
87.5	1050.858	1050.740	1050.621	1050.562	1050.503	1050.108	1049.713	1049.653	1049.594	1049.851
90.0	1057.415	1057.494	1057.573	1057.573	1057.573	1056.902	1056.230	1056.191	1056.151	1056.428
92.5	1049.120	1048.725	1048.330	1048.705	1049.081	1048.745	1048.409	1048.291	1048.172	1048.607
95.0	1040.825	1039.956	1039.087	1039.838	1040.588	1040.588	1040.588	1040.391	1040.193	1040.786
97.5	1009.344	1009.107	1008.870	1009.146	1009.423	1009.521	1009.620	1009.403	1009.186	1009.482
100.0	977.862	978.257	978.652	978.455	978.257	978.455	978.652	978.415	978.178	978.178
102.5	942.905	943.082	943.260	943.003	942.747	942.964	943.181	942.964	942.747	942.885
105.0	907.947	907.908	907.868	907.552	907.236	907.473	907.710	907.513	907.315	907.592
107.5	856.400	856.340	856.281	856.005	855.728	855.866	856.005	856.024	856.044	856.103
110.0	804.852	804.773	804.694	804.457	804.220	804.260	804.299	804.536	804.773	804.615
112.5	748.367	748.328	748.288	748.170	748.051	748.170	748.288	748.308	748.328	747.992
115.0	691.882	691.882	691.882	691.882	691.882	692.080	692.277	692.080	691.882	691.369
117.5	646.892	646.951	647.010	646.951	646.892	647.109	647.326	647.089	646.852	646.714
120.0	601.901	602.020	602.138	602.020	601.901	602.138	602.375	602.099	601.822	602.059
122.5	566.628	566.647	566.667	566.687	566.707	566.707	566.707	566.647	566.588	566.687
125.0	531.354	531.275	531.196	531.354	531.512	531.275	531.038	531.196	531.354	531.315
127.5	507.062	507.141	507.220	507.220	507.220	507.358	507.496	507.437	507.378	507.476
130.0	482.769	483.006	483.243	483.085	482.927	483.441	483.954	483.678	483.401	483.638
132.5	450.300	450.122	449.945	450.241	450.537	450.774	451.011	450.754	450.498	450.754
135.0	417.831	417.239	416.646	417.397	418.147	418.108	418.068	417.831	417.594	417.871
137.5	403.651	403.256	402.861	403.236	403.611	403.572	403.532	403.433	403.335	403.591
140.0	389.470	389.273	389.075	389.075	389.075	389.036	388.996	389.036	389.075	389.312
142.5	373.947	373.887	373.828	373.789	373.749	373.512	373.275	373.413	373.552	373.789
145.0	358.423	358.502	358.581	358.502	358.423	357.989	357.554	357.791	358.028	358.265
147.5	352.893	352.933	352.972	353.031	353.091	352.873	352.656	352.617	352.577	352.775
150.0	347.363	347.363	347.363	347.561	347.758	347.758	347.758	347.442	347.126	347.284
152.5	338.199	338.199	338.199	338.179	338.160	338.298	338.436	338.219	338.002	337.982
155.0	329.035	329.035	329.035	328.798	328.561	328.838	329.114	328.996	328.877	328.680
157.5	321.175	321.175	321.175	321.096	321.017	321.155	321.293	321.273	321.254	321.155
160.0	313.314	313.314	313.314	313.393	313.472	313.472	313.472	313.551	313.630	313.630
162.5	309.088	309.068	309.048	309.206	309.364	309.384	309.404	309.443	309.483	309.344
165.0	304.861	304.822	304.782	305.019	305.256	305.296	305.335	305.335	305.335	305.059
167.5	299.726	299.845	299.963	300.141	300.319	300.240	300.161	300.240	300.319	300.042
170.0	294.591	294.868	295.144	295.263	295.381	295.184	294.986	295.144	295.302	295.026
172.5	292.182	292.300	292.419	292.537	292.656	292.517	292.379	292.438	292.498	292.379
175.0	289.772	289.733	289.693	289.812	289.930	289.851	289.772	289.733	289.693	289.733
177.5	293.130	293.110	293.090	293.149	293.209	293.169	293.130	293.110	293.090	293.110
180.0	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000

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	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487	296.487
2.5	293.841	293.347	292.853	292.912	292.972	293.110	293.248	293.070	292.893	292.952
5.0	291.194	290.207	289.219	289.338	289.456	289.733	290.009	289.654	289.298	289.417
7.5	293.051	292.537	292.024	292.083	292.142	292.419	292.695	292.359	292.024	292.043

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

CANDELA TABULATION - (Cont.)

10.0	294.907	294.868	294.828	294.828	294.828	295.105	295.381	295.065	294.749	294.670
12.5	298.423	298.442	298.462	298.462	298.462	298.699	298.936	298.581	298.225	298.205
15.0	301.938	302.017	302.096	302.096	302.096	302.294	302.491	302.096	301.701	301.741
17.5	306.994	306.994	306.994	306.974	306.955	307.073	307.192	307.034	306.876	306.915
20.0	312.050	311.971	311.892	311.853	311.813	311.853	311.892	311.971	312.050	312.090
22.5	319.239	319.219	319.200	319.180	319.160	319.358	319.555	319.437	319.318	319.358
25.0	326.428	326.468	326.507	326.507	326.507	326.863	327.218	326.902	326.586	326.626
27.5	335.948	335.948	335.948	335.829	335.711	335.869	336.027	335.888	335.750	335.750
30.0	345.467	345.428	345.388	345.151	344.914	344.875	344.835	344.875	344.914	344.875
32.5	350.997	350.997	350.997	350.839	350.681	350.523	350.365	350.503	350.642	350.543
35.0	356.527	356.567	356.606	356.527	356.448	356.172	355.895	356.132	356.369	356.211
37.5	371.340	371.201	371.063	371.063	371.063	370.866	370.668	370.826	370.984	370.945
40.0	386.152	385.836	385.520	385.599	385.678	385.560	385.441	385.520	385.599	385.678
42.5	398.871	398.812	398.753	398.733	398.713	398.733	398.753	398.693	398.634	398.753
45.0	411.590	411.788	411.985	411.867	411.748	411.906	412.064	411.867	411.669	411.827
47.5	444.770	444.889	445.007	444.869	444.731	444.829	444.928	444.829	444.731	444.770
50.0	477.950	477.990	478.029	477.871	477.713	477.753	477.792	477.792	477.792	477.713
52.5	499.675	499.715	499.754	499.715	499.675	499.616	499.557	499.576	499.596	499.636
55.0	521.400	521.440	521.479	521.558	521.637	521.479	521.321	521.361	521.400	521.558
57.5	557.108	557.069	557.029	556.970	556.911	556.930	556.950	557.049	557.148	557.049
60.0	592.816	592.698	592.579	592.382	592.184	592.382	592.579	592.737	592.895	592.540
62.5	636.503	636.365	636.227	636.266	636.306	636.404	636.503	636.444	636.385	636.207
65.0	680.190	680.032	679.874	680.151	680.427	680.427	680.427	680.151	679.874	679.874
67.5	736.478	736.438	736.399	736.537	736.675	736.715	736.754	736.695	736.636	736.497
70.0	792.765	792.844	792.923	792.923	792.923	793.002	793.081	793.239	793.397	793.121
72.5	846.841	847.018	847.196	846.860	846.525	846.248	845.972	846.070	846.169	845.972
75.0	900.916	901.193	901.469	900.798	900.126	899.494	898.862	898.902	898.941	898.823
77.5	938.362	938.026	937.691	937.197	936.703	936.565	936.427	936.407	936.387	936.288
80.0	975.808	974.860	973.912	973.596	973.280	973.636	973.991	973.912	973.833	973.754
82.5	1009.660	1009.166	1008.672	1008.534	1008.396	1008.494	1008.593	1008.080	1007.566	1007.922
85.0	1043.511	1043.472	1043.432	1043.472	1043.511	1043.353	1043.195	1042.247	1041.299	1042.089
87.5	1050.108	1050.068	1050.029	1050.108	1050.187	1050.029	1049.871	1049.357	1048.844	1049.239
90.0	1056.704	1056.665	1056.625	1056.744	1056.862	1056.704	1056.546	1056.467	1056.388	1056.388
92.5	1049.041	1048.844	1048.646	1048.883	1049.120	1048.903	1048.686	1048.745	1048.804	1048.824
95.0	1041.378	1041.023	1040.667	1041.023	1041.378	1041.102	1040.825	1041.023	1041.220	1041.260
97.5	1009.778	1009.719	1009.660	1009.660	1009.660	1009.699	1009.739	1009.837	1009.936	1009.897
100.0	978.178	978.415	978.652	978.297	977.941	978.297	978.652	978.652	978.652	978.534
102.5	943.023	943.418	943.813	943.201	942.589	943.201	943.813	943.774	943.734	943.754
105.0	907.868	908.421	908.974	908.105	907.236	908.105	908.974	908.895	908.816	908.974
107.5	856.163	856.439	856.716	856.400	856.084	856.439	856.795	856.795	856.795	856.814
110.0	804.457	804.457	804.457	804.694	804.931	804.773	804.615	804.694	804.773	804.655
112.5	747.656	747.696	747.735	747.676	747.617	747.676	747.735	747.715	747.696	747.617
115.0	690.855	690.934	691.013	690.658	690.302	690.579	690.855	690.737	690.618	690.579
117.5	646.576	646.615	646.655	646.457	646.260	646.339	646.418	646.398	646.378	646.418
120.0	602.296	602.296	602.296	602.257	602.217	602.099	601.980	602.059	602.138	602.257
122.5	566.786	566.884	566.983	566.825	566.667	566.588	566.509	566.667	566.825	566.884
125.0	531.275	531.473	531.670	531.394	531.117	531.078	531.038	531.275	531.512	531.512
127.5	507.575	507.575	507.575	507.536	507.496	507.496	507.496	507.496	507.496	507.457
130.0	483.875	483.678	483.480	483.678	483.875	483.915	483.954	483.717	483.480	483.401
132.5	451.011	450.794	450.577	450.754	450.932	450.853	450.774	450.715	450.656	450.695
135.0	418.147	417.910	417.673	417.831	417.989	417.792	417.594	417.713	417.831	417.989
137.5	403.848	403.730	403.611	403.730	403.848	403.730	403.611	403.591	403.572	403.670
140.0	389.549	389.549	389.549	389.628	389.707	389.668	389.628	389.470	389.312	389.352
142.5	374.026	374.065	374.105	374.026	373.947	373.907	373.868	373.710	373.552	373.690
145.0	358.502	358.581	358.660	358.423	358.186	358.147	358.107	357.949	357.791	358.028
147.5	352.972	352.992	353.012	352.952	352.893	352.794	352.696	352.735	352.775	352.755

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

CANDELA TABULATION - (Cont.)

150.0	347.442	347.403	347.363	347.482	347.600	347.442	347.284	347.521	347.758	347.482
152.5	337.962	338.081	338.199	338.318	338.436	338.278	338.120	338.199	338.278	338.100
155.0	328.482	328.759	329.035	329.154	329.272	329.114	328.956	328.877	328.798	328.719
157.5	321.056	321.056	321.056	321.194	321.333	321.214	321.096	321.175	321.254	321.115
160.0	313.630	313.354	313.077	313.235	313.393	313.314	313.235	313.472	313.709	313.512
162.5	309.206	309.147	309.088	309.048	309.009	309.147	309.285	309.265	309.246	309.265
165.0	304.782	304.940	305.098	304.861	304.624	304.980	305.335	305.059	304.782	305.019
167.5	299.766	299.845	299.924	299.766	299.608	299.785	299.963	300.003	300.042	300.161
170.0	294.749	294.749	294.749	294.670	294.591	294.591	294.591	294.947	295.302	295.302
172.5	292.261	292.261	292.261	292.241	292.221	292.162	292.103	292.261	292.419	292.359
175.0	289.772	289.772	289.772	289.812	289.851	289.733	289.614	289.575	289.535	289.417
177.5	293.130	293.130	293.130	293.149	293.169	293.110	293.051	293.031	293.011	292.952
180.0	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000

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	296.487	296.487	296.487	296.487	296.487
2.5	293.011	293.130	293.248	293.169	293.090
5.0	289.535	289.772	290.009	289.851	289.693
7.5	292.063	292.320	292.577	292.458	292.340
10.0	294.591	294.868	295.144	295.065	294.986
12.5	298.186	298.561	298.936	298.877	298.818
15.0	301.780	302.254	302.728	302.689	302.649
17.5	306.955	307.152	307.350	307.211	307.073
20.0	312.129	312.050	311.971	311.734	311.497
22.5	319.397	319.338	319.279	319.121	318.963
25.0	326.665	326.626	326.586	326.507	326.428
27.5	335.750	335.928	336.106	335.967	335.829
30.0	344.835	345.230	345.625	345.428	345.230
32.5	350.444	350.681	350.918	350.819	350.721
35.0	356.053	356.132	356.211	356.211	356.211
37.5	370.905	370.866	370.826	370.964	371.103
40.0	385.757	385.599	385.441	385.718	385.994
42.5	398.871	398.713	398.555	398.634	398.713
45.0	411.985	411.827	411.669	411.551	411.432
47.5	444.810	444.829	444.849	444.474	444.099
50.0	477.634	477.832	478.029	477.397	476.765
52.5	499.675	499.734	499.794	499.557	499.320
55.0	521.716	521.637	521.558	521.716	521.874
57.5	556.950	557.069	557.187	557.227	557.266
60.0	592.184	592.500	592.816	592.737	592.658
62.5	636.029	636.325	636.622	636.523	636.424
65.0	679.874	680.151	680.427	680.309	680.190
67.5	736.359	736.557	736.754	736.636	736.517
70.0	792.844	792.963	793.081	792.963	792.844
72.5	845.774	845.833	845.893	845.754	845.616
75.0	898.704	898.704	898.704	898.546	898.388
77.5	936.190	936.249	936.308	936.249	936.190
80.0	973.675	973.794	973.912	973.952	973.991
82.5	1008.277	1008.514	1008.751	1008.712	1008.672
85.0	1042.879	1043.235	1043.590	1043.472	1043.353
87.5	1049.634	1049.653	1049.673	1049.634	1049.594
90.0	1056.388	1056.072	1055.756	1055.796	1055.835
92.5	1048.844	1048.587	1048.330	1048.468	1048.607
95.0	1041.299	1041.102	1040.904	1041.141	1041.378

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

CANDELA TABULATION - (Cont.)

97.5	1009.857	1010.074	1010.292	1010.055	1009.818
100.0	978.415	979.047	979.679	978.968	978.257
102.5	943.774	944.149	944.524	944.188	943.853
105.0	909.132	909.251	909.369	909.409	909.448
107.5	856.834	856.893	856.953	857.051	857.150
110.0	804.536	804.536	804.536	804.694	804.852
112.5	747.538	747.518	747.498	747.636	747.775
115.0	690.539	690.500	690.460	690.579	690.697
117.5	646.457	646.319	646.181	646.181	646.181
120.0	602.375	602.138	601.901	601.783	601.664
122.5	566.944	566.746	566.549	566.470	566.391
125.0	531.512	531.354	531.196	531.157	531.117
127.5	507.417	507.457	507.496	507.496	507.496
130.0	483.322	483.559	483.796	483.836	483.875
132.5	450.735	450.794	450.853	450.932	451.011
135.0	418.147	418.029	417.910	418.029	418.147
137.5	403.769	403.651	403.532	403.552	403.572
140.0	389.391	389.273	389.154	389.075	388.996
142.5	373.828	373.650	373.473	373.552	373.631
145.0	358.265	358.028	357.791	358.028	358.265
147.5	352.735	352.696	352.656	352.834	353.012
150.0	347.205	347.363	347.521	347.640	347.758
152.5	337.923	338.061	338.199	338.318	338.436
155.0	328.640	328.759	328.877	328.996	329.114
157.5	320.977	321.076	321.175	321.155	321.135
160.0	313.314	313.393	313.472	313.314	313.156
162.5	309.285	309.206	309.127	309.107	309.088
165.0	305.256	305.019	304.782	304.901	305.019
167.5	300.279	300.141	300.003	300.062	300.121
170.0	295.302	295.263	295.223	295.223	295.223
172.5	292.300	292.280	292.261	292.340	292.419
175.0	289.298	289.298	289.298	289.456	289.614
177.5	292.893	292.893	292.893	292.972	293.051
180.0	296.000	296.000	296.000	296.000	296.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	114.13	1.40	1.40
0-30	266.27	3.40	3.30
0-40	493.51	6.20	6.10
0-60	1296.49	16.40	16.00
0-80	2923.57	37.00	36.00
0-90	4047.13	51.20	49.80
10-90	4019.18	50.90	49.50
20-40	379.38	4.80	4.70
20-50	707.09	9.00	8.70
40-70	1485.48	18.80	18.30
60-80	1627.08	20.60	20.00
70-80	944.58	12.00	11.60
80-90	1123.56	14.20	13.80
90-110	2075.41	26.30	25.50
90-120	2768.77	35.00	34.10
90-130	3251.47	41.20	40.00
90-150	3811.79	48.30	46.90
90-180	4079.26	51.60	50.20
110-180	2003.85	25.40	24.70
0-180	8126.4	102.90	100.00

Total Luminaire Efficiency = 102.90%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	27.96
10-20	86.17
20-30	152.15
30-40	227.23
40-50	327.71
50-60	475.28
60-70	682.50
70-80	944.58
80-90	1123.56
90-100	1122.78
100-110	952.63
110-120	693.36
120-130	482.70
130-140	331.58
140-150	228.73
150-160	153.03
160-170	86.54
170-180	27.91

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.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
0	110	110	110	110	102	102	102	102	86	86	86	71	71	71	58	58	58	51
1	94	86	79	73	85	79	73	67	65	60	56	52	48	45	40	37	35	29
2	83	72	63	55	75	65	57	50	53	47	41	42	37	33	32	28	25	19
3	74	61	51	43	67	56	47	40	45	38	32	35	30	25	26	22	19	14
4	67	53	43	35	61	48	39	32	39	32	26	31	25	20	23	18	15	10
5	61	47	37	29	55	42	33	27	34	27	22	27	21	17	20	15	12	8
6	56	41	32	25	51	38	29	22	31	24	18	24	18	14	18	13	10	7
7	52	37	28	21	47	34	25	19	28	21	16	22	16	12	16	12	9	6
8	48	33	24	18	43	31	22	17	25	18	14	20	14	10	15	11	7	5
9	44	30	22	16	40	28	20	15	23	16	12	18	13	9	14	9	6	4
10	41	28	20	14	38	25	18	13	21	15	10	17	12	8	13	9	6	4

IES INDOOR REPORT
PHOTOMETRIC FILENAME : F45G64 - 3200K - 54 INCH.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	7.2	7.2	7.2	7.4	8.7	7.2	7.2	7.2	7.5	8.7
	3H	10.5	11.5	11.4	12.5	13.7	10.5	11.5	11.4	12.5	13.7
	4H	13.2	14.1	14.1	15.1	16.4	13.2	14.1	14.2	15.1	16.4
	6H	16.0	16.9	16.9	17.9	19.2	16.0	16.9	17.0	17.9	19.2
	8H	17.5	18.3	18.4	19.3	20.6	17.5	18.3	18.4	19.3	20.6
	12H	19.1	19.9	20.1	20.9	22.2	19.1	19.9	20.1	20.9	22.3

UGR Viewed Endwise

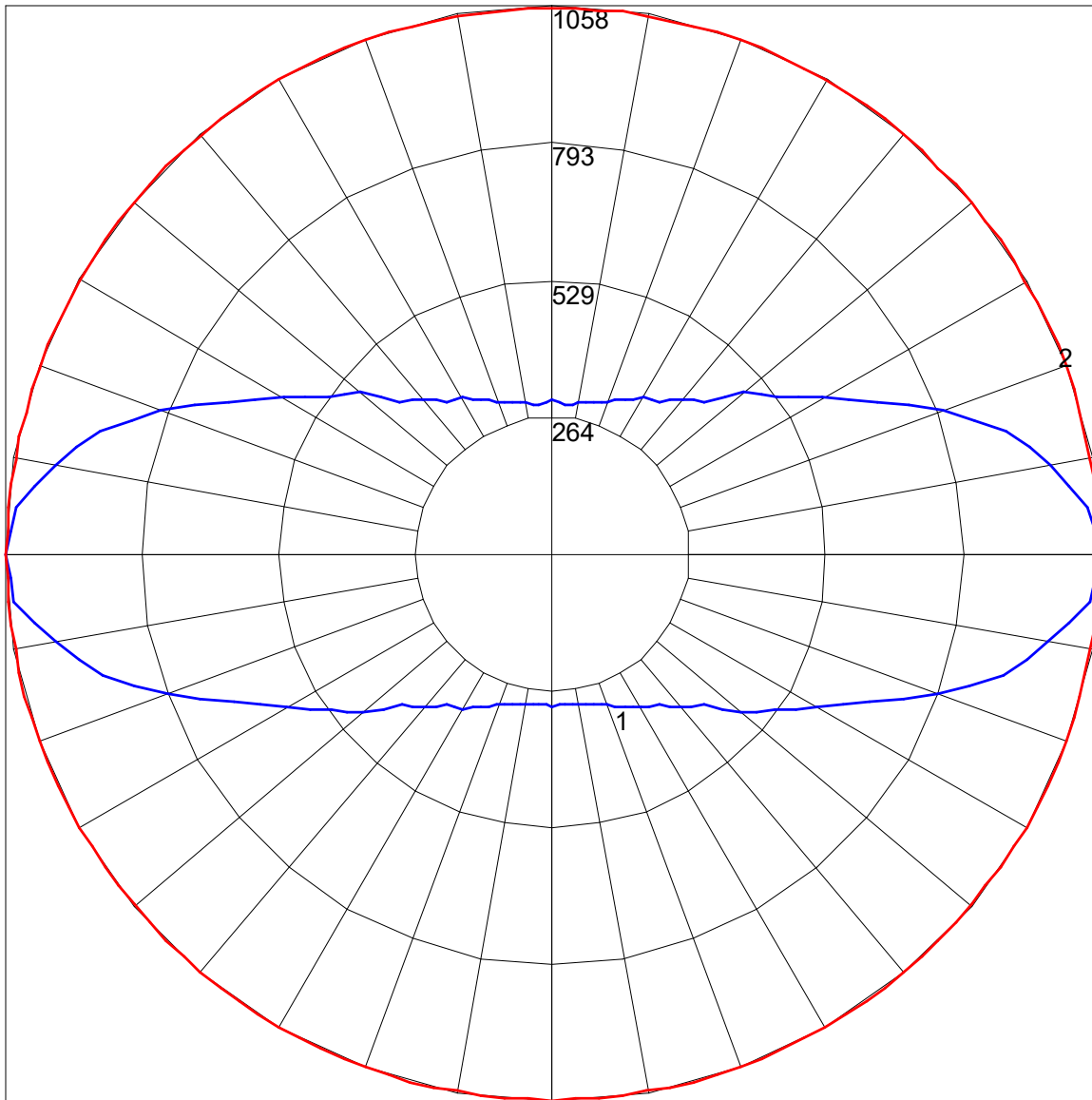
4H	2H	7.2	7.9	7.9	8.9	10.2	7.2	7.9	7.9	8.9	10.2
	3H	12.1	12.9	13.0	13.9	15.2	12.1	12.9	13.0	13.9	15.2
	4H	14.8	15.6	15.8	16.6	17.9	14.8	15.6	15.8	16.6	17.9
	6H	17.7	18.4	18.7	19.4	20.8	17.7	18.4	18.7	19.5	20.8
	8H	19.3	19.9	20.2	20.9	22.3	19.3	19.9	20.3	21.0	22.3
	12H	21.0	21.6	22.0	22.6	24.0	21.0	21.6	22.0	22.6	24.0

8H	4H	15.9	16.5	16.9	17.6	18.9	15.9	16.5	16.9	17.6	18.9
	6H	19.0	19.6	20.0	20.6	21.9	19.0	19.6	20.0	20.6	21.9
	8H	20.7	21.2	21.7	22.2	23.6	20.7	21.2	21.7	22.3	23.6
	12H	22.6	23.1	23.6	24.1	25.5	22.6	23.1	23.6	24.1	25.5

12H	4H	16.2	16.8	17.2	17.9	19.2	16.2	16.8	17.2	17.9	19.2
	6H	19.4	19.9	20.4	21.0	22.3	19.4	19.9	20.4	21.0	22.3
	8H	21.2	21.7	22.2	22.7	24.1	21.2	21.7	22.2	22.7	24.1

Maximum UGR = 25.5

POLAR GRAPH



Maximum Candela = 1057.968 Located At Horizontal Angle = 290, Vertical Angle = 90
1 - Vertical Plane Through Horizontal Angles (290 - 110) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (90) (Through Max. Cd.)