



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BOLTPRO-SM-LED35-SO-SAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] BOLT-SM-LED35-SO-SAL

[TESTLAB] Intertek

[ISSUE DATE] 11/24/19

[MANUFAC] Prudential Lighting

[TOTAL LUMINAIRE LUMENS] 4571.6

[CONVERT] Luminaire test position and photometric web converted from original test data

[CONVERT] Luminaire test position and photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4617
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	37.6
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.17 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.13 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12283	9858	5157
55	13824	10725	4777
65	16216	11913	4357
75	19532	13709	4014
85	23613	16643	3264

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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	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421
2.5	366.428	366.327	366.226	366.024	365.923	365.822	365.721	364.105	363.600	362.994
5.0	403.697	403.394	403.091	402.788	402.586	400.465	399.455	398.243	396.930	395.516
7.5	443.592	443.087	442.582	442.077	439.855	438.340	436.623	434.704	432.583	430.260
10.0	485.406	484.699	483.992	483.285	480.053	477.932	475.508	472.781	469.751	466.418
12.5	529.139	528.129	527.119	524.190	521.766	518.938	515.706	512.171	508.131	503.889
15.0	573.377	572.064	570.751	567.115	563.984	560.449	556.409	551.965	547.016	541.663
17.5	616.504	614.888	613.171	608.929	605.192	600.950	596.203	590.850	585.093	578.831
20.0	657.914	655.894	653.874	648.925	644.683	639.835	634.381	628.321	621.756	614.585
22.5	698.112	695.688	693.264	687.608	682.760	677.205	671.044	664.277	656.904	648.925
25.0	736.492	733.664	729.220	724.473	718.918	712.757	705.990	698.516	690.436	681.649
27.5	771.842	768.610	763.762	758.510	752.450	745.784	738.411	730.331	721.645	712.353
30.0	803.859	800.223	795.072	789.416	783.053	775.983	768.105	759.621	750.430	740.532
32.5	832.846	828.907	823.352	817.494	810.828	803.354	795.274	786.386	776.892	766.489
35.0	858.904	854.662	848.804	842.643	835.775	828.099	819.716	810.525	800.829	789.921
37.5	882.134	877.690	871.731	865.368	858.298	850.420	841.734	832.341	822.241	811.030
40.0	903.344	898.900	892.739	886.275	879.003	870.923	862.035	852.339	841.734	830.321
42.5	923.241	918.696	912.535	905.970	898.597	890.315	881.225	871.327	860.116	848.400
45.0	942.229	937.785	931.523	924.857	917.383	909.000	899.607	890.214	877.993	865.772
47.5	960.712	956.268	950.208	943.441	935.866	927.180	917.484	906.879	895.163	882.033
50.0	979.296	975.054	968.893	962.126	954.349	945.360	935.260	924.150	912.030	894.153
52.5	998.486	994.446	988.184	981.215	973.135	963.843	953.339	941.724	925.867	906.576
55.0	1018.080	1014.343	1007.980	1000.809	992.426	982.629	971.620	958.086	939.502	919.504
57.5	1038.583	1035.048	1028.584	1021.312	1012.424	1002.021	990.305	973.236	954.652	932.937
60.0	1060.500	1057.470	1050.905	1043.330	1033.836	1022.322	1007.778	989.295	968.994	946.976
62.5	1083.932	1080.195	1074.438	1066.661	1056.561	1044.542	1026.463	1006.364	984.851	961.419
65.0	1108.172	1104.435	1098.375	1090.194	1079.690	1064.843	1045.855	1024.746	1001.516	976.569
67.5	1132.008	1128.271	1122.009	1113.222	1102.011	1084.639	1064.944	1042.825	1018.484	991.921
70.0	1154.228	1150.289	1143.825	1134.836	1121.605	1103.526	1083.023	1059.995	1034.543	1006.566
72.5	1173.923	1169.782	1163.116	1154.026	1139.684	1120.393	1099.486	1075.650	1048.986	1019.595
75.0	1190.588	1186.447	1179.680	1168.772	1153.218	1134.836	1113.424	1089.184	1061.712	1031.109
77.5	1203.819	1199.779	1193.113	1180.488	1164.631	1146.552	1125.039	1100.092	1071.913	1040.401
80.0	1213.717	1209.576	1201.597	1188.972	1172.913	1155.238	1134.028	1109.990	1080.094	1047.673
82.5	1219.575	1215.939	1206.041	1193.113	1180.084	1162.005	1139.987	1114.333	1084.841	1051.915
85.0	1221.292	1217.050	1206.243	1197.557	1183.922	1165.742	1143.118	1116.555	1086.457	1053.127
87.5	1219.171	1211.394	1209.576	1200.385	1185.740	1166.550	1143.017	1115.444	1084.538	1051.107
90.0	1216.545	1218.565	1211.495	1200.385	1184.023	1163.419	1139.179	1110.596	1078.983	1045.249
92.5	1219.171	1211.394	1209.576	1200.385	1185.740	1166.550	1143.017	1115.444	1084.538	1051.107
95.0	1221.292	1217.050	1206.243	1197.557	1183.922	1165.742	1143.118	1116.555	1086.457	1053.127
97.5	1219.575	1215.939	1206.041	1193.113	1180.084	1162.005	1139.987	1114.333	1084.841	1051.915
100.0	1213.717	1209.576	1201.597	1188.972	1172.913	1155.238	1134.028	1109.990	1080.094	1047.673
102.5	1203.819	1199.779	1193.113	1180.488	1164.631	1146.552	1125.039	1100.092	1071.913	1040.502
105.0	1190.588	1186.447	1179.680	1168.772	1153.218	1134.836	1113.424	1089.184	1061.712	1031.109
107.5	1173.923	1169.782	1163.116	1154.026	1139.684	1120.393	1099.486	1075.650	1048.986	1019.595
110.0	1154.228	1150.289	1143.825	1134.836	1121.605	1103.526	1083.023	1059.995	1034.543	1006.566
112.5	1132.008	1128.271	1122.009	1113.222	1102.011	1084.740	1064.944	1042.825	1018.484	991.921
115.0	1108.172	1104.435	1098.375	1090.194	1079.690	1064.843	1045.855	1024.746	1001.516	976.569
117.5	1083.932	1080.195	1074.438	1066.661	1056.561	1044.643	1026.463	1006.364	984.851	961.419
120.0	1060.500	1057.470	1050.905	1043.330	1033.836	1022.322	1007.778	989.295	968.994	946.976
122.5	1038.583	1035.048	1028.584	1021.312	1012.424	1002.021	990.305	973.236	954.652	932.937
125.0	1018.080	1014.343	1007.980	1000.809	992.426	982.629	971.620	958.086	939.502	919.504
127.5	998.486	994.446	988.184	981.215	973.135	963.843	953.339	941.724	925.867	906.576
130.0	979.296	975.054	968.893	962.126	954.349	945.360	935.260	924.150	912.030	894.153
132.5	960.712	956.268	950.208	943.441	935.866	927.180	917.484	906.879	895.163	882.033

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CANDELA TABULATION - (Cont.)

135.0	942.229	937.785	931.523	924.958	917.383	909.000	899.607	890.214	877.993	865.772
137.5	923.241	918.696	912.535	905.970	898.597	890.315	881.225	871.327	860.318	848.400
140.0	903.344	898.900	892.739	886.275	879.003	870.923	862.035	852.339	841.734	830.321
142.5	882.134	877.690	871.731	865.368	858.500	850.420	841.734	832.341	822.241	811.030
145.0	858.904	854.662	848.804	842.643	835.775	828.099	819.716	810.525	800.829	789.921
147.5	832.846	828.907	823.352	817.494	810.828	803.354	795.274	786.386	776.892	766.489
150.0	803.859	800.223	795.072	789.416	783.053	775.983	768.105	759.621	750.430	740.633
152.5	771.842	768.610	763.964	758.510	752.450	745.784	738.411	730.331	721.847	712.353
155.0	736.492	733.664	729.220	724.473	718.918	712.757	705.990	698.516	690.436	681.649
157.5	698.112	695.688	693.264	687.608	682.760	677.205	671.044	664.277	656.904	648.925
160.0	657.914	655.894	653.874	648.925	644.683	639.835	634.381	628.321	621.756	614.585
162.5	616.504	614.888	613.171	608.929	605.192	600.950	596.203	590.850	585.093	578.831
165.0	573.377	572.064	570.751	567.115	563.984	560.449	556.409	551.965	547.016	541.663
167.5	529.139	528.129	527.119	524.190	521.766	518.938	515.706	512.171	508.131	503.889
170.0	485.406	484.699	483.992	483.285	480.053	477.932	475.508	472.781	469.751	466.418
172.5	443.592	443.087	442.582	442.077	439.855	438.340	436.623	434.704	432.684	430.260
175.0	403.697	403.394	403.091	402.788	402.586	400.465	399.455	398.243	396.930	395.516
177.5	366.428	366.327	366.226	366.024	365.923	365.822	365.721	364.105	363.600	362.994
180.0	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320

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	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421
2.5	362.388	361.681	360.873	360.065	359.257	358.348	357.439	356.429	355.419	354.409
5.0	394.001	392.284	390.466	388.547	386.527	384.406	382.184	379.962	377.538	375.013
7.5	427.735	425.008	422.079	419.049	415.817	412.383	408.848	405.111	401.273	397.233
10.0	462.883	459.045	455.005	450.662	446.117	441.370	436.320	431.270	426.119	420.665
12.5	499.142	494.092	488.840	483.184	477.225	471.064	464.802	458.237	451.470	444.501
15.0	535.906	529.745	523.180	516.211	509.040	501.465	493.688	485.507	477.124	468.337
17.5	572.165	564.994	557.318	549.137	540.653	531.664	522.372	512.676	502.778	492.678
20.0	607.010	598.829	590.143	580.851	571.155	561.055	550.551	539.542	528.129	516.413
22.5	640.239	631.250	621.453	611.252	600.445	589.234	577.316	565.196	552.571	539.946
25.0	672.357	662.156	651.450	640.239	628.422	616.100	603.071	589.739	576.003	561.661
27.5	701.950	691.244	679.730	667.711	655.086	641.552	627.614	614.686	598.021	582.568
30.0	729.624	717.908	705.990	694.173	679.629	665.489	650.945	635.189	619.029	600.445
32.5	754.975	742.956	730.230	716.595	702.354	687.608	671.852	652.763	632.462	611.353
35.0	778.205	765.883	752.753	738.310	723.463	705.687	685.184	664.378	642.764	620.948
37.5	799.112	786.689	772.852	758.106	739.926	717.605	696.193	673.569	651.753	628.725
40.0	818.201	805.172	790.224	770.630	749.723	728.210	705.889	682.760	659.227	635.290
42.5	835.775	820.827	801.233	780.831	759.318	738.310	713.868	690.234	665.489	640.542
45.0	851.632	831.937	811.535	790.123	768.004	744.774	720.938	696.092	670.842	644.683
47.5	863.045	842.845	821.534	799.112	775.882	751.844	726.897	701.243	674.781	647.814
50.0	874.458	853.450	831.331	808.202	783.659	759.217	732.048	705.485	678.013	649.834
52.5	886.073	864.257	841.128	816.787	791.335	764.772	737.906	709.121	680.336	652.258
55.0	898.092	875.165	851.127	825.473	798.708	771.034	742.148	712.454	682.255	651.046
57.5	910.414	886.376	861.025	834.260	806.182	776.892	746.693	714.979	682.659	650.036
60.0	923.241	897.991	871.125	843.047	813.555	782.245	749.925	716.797	682.760	648.521
62.5	936.472	909.707	881.427	851.531	819.918	787.093	753.056	718.211	682.558	646.501
65.0	949.905	921.625	891.325	859.510	826.180	791.537	755.783	719.120	681.851	643.976
67.5	963.439	932.735	900.718	867.085	832.038	795.678	757.904	719.524	680.437	640.946
70.0	976.064	943.643	909.606	875.367	837.391	799.112	759.520	719.120	678.316	637.108
72.5	987.881	953.743	917.787	880.518	841.835	801.738	760.429	717.706	676.902	632.260
75.0	997.981	962.530	924.958	885.669	845.067	803.354	760.126	716.494	673.468	630.442
77.5	1006.465	969.802	930.513	889.406	847.693	805.172	761.338	716.494	672.054	628.119
80.0	1012.323	974.650	934.553	892.537	849.713	805.980	760.833	714.777	669.125	624.281

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CANDELA TABULATION - (Cont.)

82.5	1016.060	977.680	936.472	893.244	849.410	804.768	758.510	711.141	664.378	618.827
85.0	1016.666	978.084	935.765	891.426	846.582	801.334	754.066	705.384	657.712	611.555
87.5	1013.939	975.458	933.745	888.194	842.643	796.789	748.713	698.718	650.137	603.576
90.0	1007.778	969.398	925.160	878.902	833.048	786.992	738.310	687.507	638.623	591.860
92.5	1013.939	975.458	933.745	888.194	842.643	796.789	748.713	698.718	650.137	603.576
95.0	1016.666	978.084	935.866	891.426	846.582	801.334	754.066	705.384	657.712	611.555
97.5	1016.060	977.680	936.472	893.244	849.410	804.768	758.510	711.141	664.378	618.827
100.0	1012.323	974.650	934.452	892.537	849.713	805.980	760.833	714.777	669.125	624.281
102.5	1006.465	969.802	930.513	889.608	847.693	805.172	761.338	716.494	672.458	628.119
105.0	997.981	962.530	924.958	885.669	845.168	803.354	760.126	716.494	673.468	630.543
107.5	987.881	953.743	917.787	880.518	841.835	801.738	760.429	717.807	676.902	632.260
110.0	976.064	943.643	909.606	875.367	837.391	799.112	759.520	719.120	678.316	637.108
112.5	963.439	932.735	900.718	867.085	832.038	795.678	757.904	719.524	680.437	640.946
115.0	949.905	921.625	891.325	859.510	826.180	791.739	755.783	719.120	681.851	643.976
117.5	936.472	909.707	881.427	851.531	819.918	787.093	753.056	718.211	682.558	646.501
120.0	923.241	897.991	871.125	843.047	813.555	782.245	749.925	716.797	682.760	648.521
122.5	910.414	886.376	861.025	834.260	806.182	776.892	746.693	714.979	682.659	650.036
125.0	898.092	875.165	851.127	825.473	798.708	771.034	742.350	712.454	682.255	651.046
127.5	886.073	864.257	841.128	816.787	791.335	764.772	738.108	709.121	680.336	652.258
130.0	874.458	853.450	831.331	808.202	783.659	759.217	732.250	705.485	678.013	649.834
132.5	863.045	842.845	821.534	799.112	775.882	751.844	727.200	701.243	674.781	647.814
135.0	851.632	831.937	811.535	790.123	768.004	744.774	720.938	696.092	670.842	644.683
137.5	835.775	820.827	801.233	780.831	759.318	738.310	713.868	690.234	665.489	640.542
140.0	818.201	805.172	790.224	770.630	749.723	728.210	705.889	682.760	659.227	635.290
142.5	799.112	786.689	772.852	758.409	739.926	717.908	696.193	674.074	651.753	628.725
145.0	778.205	765.883	752.753	738.310	723.463	705.687	685.184	664.378	642.764	620.948
147.5	755.177	742.956	730.230	716.595	702.455	687.608	671.852	652.763	632.462	611.353
150.0	729.624	718.009	705.990	694.173	679.629	665.489	650.945	635.189	619.029	600.445
152.5	702.152	691.244	679.730	667.711	655.086	641.754	627.614	614.686	598.021	582.568
155.0	672.357	662.156	651.450	640.239	628.422	616.100	603.071	589.739	576.003	561.661
157.5	640.340	631.250	621.453	611.353	600.445	589.234	577.417	565.196	552.571	539.946
160.0	607.010	598.829	590.143	580.851	571.155	561.055	550.551	539.542	528.129	516.514
162.5	572.367	564.994	557.318	549.137	540.653	531.664	522.372	512.676	502.879	492.678
165.0	535.906	529.745	523.180	516.211	509.040	501.465	493.688	485.507	477.124	468.337
167.5	499.142	494.092	488.840	483.184	477.225	471.064	464.802	458.237	451.470	444.501
170.0	462.883	459.045	455.005	450.662	446.117	441.370	436.320	431.270	426.119	420.766
172.5	427.735	425.008	422.079	419.049	415.817	412.383	408.848	405.212	401.273	397.233
175.0	394.001	392.284	390.466	388.547	386.527	384.406	382.184	379.962	377.538	375.013
177.5	362.388	361.681	360.873	360.065	359.257	358.348	357.439	356.429	355.419	354.409
180.0	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320

**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	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421
2.5	353.298	352.187	351.076	349.864	348.652	347.440	346.127	344.915	343.602	342.289
5.0	372.488	369.761	367.034	364.307	361.479	358.954	356.530	354.005	351.480	348.955
7.5	393.294	389.355	385.315	381.174	376.831	372.589	368.145	363.701	359.156	355.217
10.0	415.312	409.656	403.798	397.839	392.082	386.123	380.366	374.508	368.549	362.489
12.5	437.330	429.856	422.685	415.312	407.737	400.162	392.385	384.810	377.437	370.064
15.0	459.651	450.864	441.774	432.583	424.200	414.100	404.909	395.516	386.123	377.235
17.5	482.275	471.569	461.772	449.955	439.047	427.937	416.928	406.121	395.314	384.305
20.0	504.394	492.274	479.851	467.226	454.500	441.976	429.250	416.322	404.000	391.577
22.5	526.210	512.373	498.334	484.194	469.852	455.409	441.067	426.725	412.282	398.546
25.0	546.915	533.381	516.413	500.657	484.800	468.741	451.268	434.098	417.231	400.465
27.5	566.711	550.147	531.462	512.272	492.981	473.791	454.803	435.815	417.534	399.354

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

30.0	580.346	560.247	539.744	519.241	498.637	477.932	457.328	437.128	417.130	397.839
32.5	590.042	568.529	546.814	524.998	503.182	481.164	459.247	437.633	416.221	395.516
35.0	598.425	575.599	552.672	529.644	506.515	483.487	460.358	437.229	414.807	393.496
37.5	605.293	581.457	557.318	533.078	508.838	484.598	461.772	436.219	412.484	389.355
40.0	610.848	586.002	560.853	535.502	510.151	484.800	459.550	434.502	409.555	385.416
42.5	615.191	589.436	563.277	536.815	510.353	483.992	457.833	432.078	406.121	380.871
45.0	618.019	591.557	564.388	537.017	509.545	482.275	455.207	428.442	401.879	375.619
47.5	620.342	592.567	564.691	536.209	507.828	480.861	451.672	423.796	395.718	368.044
50.0	621.352	592.668	563.580	534.290	504.192	474.195	444.501	415.211	386.325	357.843
52.5	621.150	590.951	560.247	529.341	498.132	467.125	436.320	406.020	376.326	347.036
55.0	619.534	588.830	555.702	523.584	491.466	459.348	427.533	396.223	365.620	335.623
57.5	617.009	583.780	550.450	517.120	484.800	450.864	418.140	385.921	354.510	323.806
60.0	613.979	579.336	544.592	510.050	475.811	441.774	408.040	375.013	342.693	311.383
62.5	610.343	574.185	538.128	502.273	466.822	431.876	397.435	363.499	330.371	298.556
65.0	606.202	568.529	531.058	493.890	457.227	421.271	385.921	351.278	317.645	285.224
67.5	601.354	561.661	523.180	484.699	446.824	409.757	373.902	338.653	304.313	271.387
70.0	595.698	554.793	514.494	474.801	435.815	398.344	362.590	327.543	293.304	260.378
72.5	589.537	548.329	508.030	468.539	429.654	391.880	355.116	319.362	284.618	250.884
75.0	587.416	544.895	503.485	463.085	423.392	384.507	347.036	310.676	275.326	240.986
77.5	584.083	540.350	497.728	456.520	416.221	376.528	338.148	301.384	265.529	230.684
80.0	579.437	534.391	490.860	448.945	408.040	367.640	328.654	291.385	255.227	219.877
82.5	573.276	527.523	482.881	440.259	399.051	357.944	318.352	280.679	244.319	208.666
85.0	565.600	519.039	473.589	430.462	388.951	347.440	307.343	270.680	234.017	197.960
87.5	557.217	509.848	463.691	420.059	378.447	336.532	295.829	257.752	221.291	185.032
90.0	545.400	497.627	451.167	407.434	365.822	323.806	282.901	244.824	208.363	172.205
92.5	557.217	509.848	463.691	420.059	378.447	336.532	295.829	257.752	221.291	185.032
95.0	565.600	519.039	473.589	430.462	388.951	347.440	307.343	270.680	234.017	197.960
97.5	573.276	527.523	482.881	440.259	399.051	357.944	318.352	280.679	244.319	208.666
100.0	579.437	534.593	490.860	448.945	408.040	367.640	328.654	291.385	255.227	219.877
102.5	584.083	540.350	497.728	456.520	416.221	376.528	338.148	301.384	265.529	230.684
105.0	587.416	544.895	503.485	463.085	423.392	384.507	347.036	310.676	275.326	240.986
107.5	589.537	548.329	508.030	468.539	429.654	391.880	355.116	319.362	284.618	250.884
110.0	595.698	554.793	514.494	474.801	435.815	398.344	362.590	327.543	293.304	260.378
112.5	601.354	562.065	523.180	484.699	446.824	409.959	373.902	338.653	304.313	271.387
115.0	606.202	568.529	531.058	493.890	457.227	421.271	385.921	351.278	317.645	285.224
117.5	610.343	574.185	538.532	502.273	466.822	431.876	397.435	363.499	330.371	298.556
120.0	613.979	579.336	544.592	510.050	475.811	441.774	408.040	375.013	342.693	311.383
122.5	617.009	583.780	550.450	517.120	484.800	450.864	418.140	385.921	354.510	323.806
125.0	619.938	588.830	555.702	523.584	491.466	459.348	427.533	396.223	365.620	335.623
127.5	621.453	590.951	560.247	529.341	498.132	467.125	436.320	406.020	376.326	347.036
130.0	621.352	592.668	563.580	534.290	504.192	474.195	444.501	415.211	386.325	357.843
132.5	620.342	592.567	564.691	536.209	507.828	480.861	451.672	423.796	395.718	368.044
135.0	618.221	591.557	564.388	537.017	509.545	482.275	455.207	428.442	401.879	375.619
137.5	615.595	589.436	563.277	536.815	510.353	483.992	457.833	432.078	406.121	380.871
140.0	610.848	586.002	560.853	535.502	510.151	484.800	459.550	434.502	409.555	385.416
142.5	605.293	581.457	557.318	533.078	508.838	484.598	461.772	436.219	412.484	389.355
145.0	598.425	575.599	552.672	529.644	506.515	483.487	460.358	437.229	414.807	393.496
147.5	590.042	568.529	547.218	524.998	503.182	481.164	459.247	437.633	416.221	395.516
150.0	580.346	560.247	539.744	519.241	498.637	477.932	457.328	437.128	417.130	397.839
152.5	566.711	550.248	531.462	512.272	492.981	473.791	454.803	435.815	417.534	399.354
155.0	546.915	533.381	516.413	500.657	484.800	468.741	451.268	434.098	417.231	400.465
157.5	526.210	512.373	498.334	484.194	469.852	455.409	441.067	426.725	412.282	398.546
160.0	504.394	492.274	479.851	467.226	454.500	441.976	429.250	416.322	404.000	391.577
162.5	482.275	471.569	461.772	449.955	439.047	427.937	416.928	406.121	395.314	384.305
165.0	459.651	450.864	441.774	432.583	424.200	414.100	404.909	395.516	386.123	377.235
167.5	437.330	429.957	422.685	415.312	407.737	400.162	392.385	384.810	377.437	370.064

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CANDELA TABULATION - (Cont.)

170.0	415.312	409.656	403.798	397.839	392.082	386.123	380.366	374.508	368.549	362.489
172.5	393.294	389.355	385.315	381.174	376.831	372.589	368.145	363.701	359.156	355.217
175.0	372.488	369.761	367.034	364.307	361.479	358.954	356.530	354.005	351.480	348.955
177.5	353.298	352.187	351.076	349.864	348.652	347.440	346.127	344.915	343.602	342.289
180.0	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320

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	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421
2.5	340.875	339.663	338.350	337.037	335.623	334.310	332.997	331.987	330.876	329.866
5.0	346.329	343.703	340.976	338.451	335.825	333.199	330.573	328.553	326.432	324.412
7.5	351.379	347.541	343.703	339.764	335.926	331.987	328.149	325.119	322.089	319.059
10.0	356.429	351.177	346.127	340.976	335.926	330.775	325.725	321.685	317.746	313.807
12.5	362.590	355.015	348.349	342.087	335.724	329.563	323.301	318.352	313.504	308.656
15.0	368.347	359.459	350.571	342.996	335.522	328.250	320.877	315.120	309.262	303.606
17.5	373.902	363.701	353.399	343.804	335.219	326.836	318.453	311.787	305.222	298.758
20.0	379.154	367.539	356.025	344.511	334.815	325.422	316.029	308.555	301.182	294.415
22.5	384.709	371.175	358.449	345.723	334.310	324.008	313.605	305.424	297.243	289.567
25.0	384.608	368.852	354.308	340.067	326.735	315.625	304.616	296.031	287.345	279.871
27.5	381.982	365.014	348.854	333.805	319.059	307.343	295.728	286.739	277.750	270.074
30.0	379.659	360.873	343.400	327.240	311.080	298.859	286.739	277.548	268.256	260.479
32.5	375.316	356.126	337.441	320.271	303.404	290.375	277.851	268.458	259.065	251.086
35.0	371.478	350.874	331.381	313.100	296.031	281.790	268.862	259.267	250.278	241.996
37.5	366.933	345.218	325.018	305.727	288.052	273.104	259.974	250.379	241.491	233.108
40.0	361.883	339.461	318.251	298.051	279.871	264.216	250.985	241.491	232.704	224.422
42.5	356.227	333.199	311.080	290.072	271.488	255.429	242.097	232.704	224.119	216.241
45.0	350.369	326.432	303.505	282.194	263.004	246.440	233.108	224.018	215.736	207.757
47.5	341.380	315.928	291.789	269.569	249.571	232.300	219.170	210.383	202.505	195.132
50.0	330.169	303.707	278.861	256.237	235.734	218.261	205.232	196.849	189.375	182.305
52.5	318.554	291.284	265.933	242.703	221.796	204.020	191.395	183.416	176.245	169.579
55.0	306.434	278.558	252.601	228.866	207.555	189.678	177.457	169.882	163.317	157.055
57.5	293.910	265.529	239.067	214.827	192.708	175.336	163.519	156.651	149.884	144.632
60.0	281.083	252.197	225.129	200.586	178.265	160.994	149.581	143.319	137.259	132.411
62.5	267.751	238.461	210.989	186.143	163.822	146.450	135.744	129.987	124.533	120.190
65.0	254.015	224.321	196.546	171.397	149.076	131.906	121.806	116.857	112.009	108.272
67.5	239.875	209.878	181.800	156.550	134.330	117.261	107.868	103.626	99.485	96.354
70.0	228.765	198.768	170.589	145.036	122.715	105.444	95.849	92.011	88.274	85.345
72.5	218.766	188.365	159.681	133.623	110.999	93.526	83.931	80.598	77.164	74.639
75.0	208.363	177.558	148.470	122.008	99.182	82.012	71.912	68.983	66.054	63.832
77.5	197.657	166.549	137.158	110.393	87.264	69.993	59.893	57.469	54.944	53.126
80.0	186.446	155.237	125.543	98.071	75.952	57.974	47.975	45.955	44.036	42.117
82.5	174.932	143.622	114.736	86.759	63.630	45.955	35.956	34.441	32.926	31.512
85.0	163.822	132.209	101.808	74.437	51.409	33.936	23.937	22.927	21.917	21.008
87.5	150.490	119.281	89.486	62.014	39.087	21.917	12.019	11.514	11.009	10.504
90.0	138.067	106.959	77.164	49.692	26.866	9.898	0.000	0.000	0.000	0.000
92.5	150.894	119.584	89.688	62.115	39.087	21.917	12.019	11.514	11.009	10.605
95.0	163.822	132.209	102.212	74.639	51.510	33.936	23.937	22.927	22.018	21.210
97.5	174.932	143.622	114.736	87.062	63.731	45.955	35.956	34.441	33.027	31.815
100.0	186.446	155.237	125.543	98.475	76.154	57.974	47.975	46.056	44.137	42.420
102.5	197.657	166.549	137.158	110.393	87.567	70.094	59.893	57.469	55.146	53.126
105.0	208.363	177.558	148.470	122.008	99.485	82.113	71.912	69.084	66.256	63.832
107.5	218.766	188.365	159.681	133.623	111.302	93.627	83.931	80.598	77.467	74.639
110.0	228.765	198.768	170.589	145.036	123.119	105.545	95.849	92.112	88.577	85.345
112.5	239.875	209.878	181.800	156.550	134.835	117.362	107.868	103.727	99.889	96.354
115.0	254.015	224.321	196.546	171.397	149.581	132.007	121.806	116.958	112.413	108.272

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CANDELA TABULATION - (Cont.)

117.5	267.751	238.461	210.989	186.143	164.327	146.551	135.744	130.088	124.937	120.190
120.0	281.083	252.197	225.129	200.586	178.871	161.095	149.581	143.420	137.663	132.411
122.5	293.910	265.529	239.067	214.827	193.314	175.538	163.519	156.752	150.389	144.632
125.0	306.434	278.558	252.601	228.866	207.555	189.880	177.457	170.084	163.317	157.055
127.5	318.554	291.284	265.933	242.703	221.796	204.121	191.395	183.517	176.245	169.579
130.0	330.169	303.707	278.861	256.237	235.734	218.362	205.232	197.051	189.375	182.305
132.5	341.380	315.928	291.789	269.569	249.571	232.502	219.170	210.484	202.505	195.132
135.0	350.369	326.432	303.505	282.194	263.004	246.541	233.108	224.119	215.736	207.757
137.5	356.227	333.199	311.080	290.072	271.488	255.530	242.097	232.805	224.119	216.241
140.0	361.883	339.461	318.251	298.051	279.871	264.317	250.985	241.592	232.704	224.422
142.5	366.933	345.218	325.018	305.727	288.052	273.205	259.974	250.480	241.491	233.108
145.0	371.478	350.874	331.381	313.100	296.031	281.891	268.862	259.368	250.278	241.996
147.5	375.316	356.126	337.441	320.271	303.808	290.476	277.851	268.458	259.368	251.086
150.0	379.659	360.873	343.400	327.240	311.484	298.960	286.739	277.548	268.559	260.479
152.5	381.982	365.014	348.854	333.805	319.362	307.444	295.728	286.840	278.053	270.074
155.0	384.608	368.852	354.308	340.067	327.038	315.726	304.616	296.031	287.648	279.871
157.5	384.709	371.175	358.449	345.723	334.411	324.008	313.605	305.424	297.344	289.567
160.0	379.154	367.539	356.025	344.511	334.916	325.422	316.029	308.656	301.283	294.415
162.5	373.902	363.701	353.399	343.804	335.320	326.836	318.453	311.888	305.323	298.758
165.0	368.347	359.459	350.571	342.996	335.623	328.250	320.877	315.120	309.363	303.606
167.5	362.590	355.015	348.349	342.087	335.825	329.563	323.301	318.352	313.504	308.656
170.0	356.429	351.177	346.127	341.077	335.926	330.775	325.725	321.786	317.746	313.807
172.5	351.379	347.541	343.703	339.764	335.926	331.987	328.149	325.119	322.089	319.059
175.0	346.329	343.703	341.077	338.451	335.825	333.199	330.573	328.553	326.432	324.412
177.5	340.976	339.663	338.350	337.037	335.623	334.310	332.997	331.987	330.876	329.866
180.0	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320

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	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421
2.5	328.856	327.846	326.735	325.927	324.917	324.008	323.099	322.190	321.281	320.473
5.0	322.291	320.372	318.453	316.534	314.615	312.797	310.979	309.161	307.444	305.929
7.5	316.130	313.201	310.272	307.444	305.222	302.192	299.768	297.445	295.122	292.900
10.0	309.969	306.131	303.000	298.960	295.728	292.395	289.264	286.133	283.103	280.376
12.5	303.909	299.263	295.122	290.880	286.840	282.800	279.063	275.528	272.094	268.761
15.0	298.657	293.001	288.052	283.103	278.861	273.912	269.670	265.529	261.388	257.752
17.5	292.698	286.840	281.184	275.629	270.579	265.529	260.681	256.136	251.894	247.753
20.0	287.446	280.881	275.124	268.761	263.004	257.550	252.399	247.450	242.602	238.259
22.5	282.295	275.124	268.458	262.095	255.833	250.076	244.521	239.067	234.118	229.371
25.0	272.498	265.428	258.964	252.702	246.945	241.491	236.239	231.391	225.937	220.988
27.5	262.398	255.227	248.460	242.097	236.239	230.482	225.230	220.079	215.635	211.393
30.0	252.500	245.329	238.360	231.997	225.836	220.180	214.726	209.777	205.131	200.889
32.5	243.107	235.835	228.866	222.301	216.140	210.282	204.929	199.879	195.233	190.991
35.0	234.118	226.543	219.675	213.009	206.949	200.990	195.637	190.587	185.941	181.699
37.5	225.230	218.059	210.787	204.222	198.061	192.203	186.749	181.800	177.154	173.013
40.0	216.645	209.171	202.303	195.839	189.577	183.921	178.467	173.518	168.973	164.731
42.5	208.262	200.990	194.425	187.759	181.598	175.841	170.589	165.640	161.095	157.055
45.0	200.182	193.011	186.345	179.982	173.922	168.266	163.014	158.166	153.722	149.682
47.5	188.163	181.800	175.942	170.387	165.236	160.590	155.843	150.995	146.753	142.713
50.0	175.639	169.579	163.923	158.671	153.621	149.177	145.137	141.501	138.471	135.744
52.5	163.317	157.459	152.207	147.157	142.511	138.067	134.027	130.593	127.563	124.836
55.0	151.096	145.743	140.693	136.047	131.603	127.260	123.321	119.887	116.857	114.332
57.5	139.178	134.128	129.583	125.139	120.897	116.655	112.817	109.383	106.353	104.030
60.0	127.462	122.816	118.574	114.635	110.393	106.252	102.414	99.081	96.253	93.829
62.5	115.746	111.706	107.767	104.030	100.091	96.051	92.314	89.082	86.254	83.931

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CANDELA TABULATION - (Cont.)

65.0	104.333	100.697	97.263	93.728	89.991	85.951	82.214	79.083	76.457	74.336
67.5	92.920	89.789	86.759	83.628	79.992	75.952	72.417	69.185	66.761	64.842
70.0	82.315	79.487	76.760	73.831	70.296	66.458	62.923	59.893	57.368	55.651
72.5	71.811	69.387	66.862	64.236	61.105	57.671	54.540	51.914	49.591	47.874
75.0	61.509	59.287	57.166	54.843	52.015	49.086	46.359	44.036	42.218	40.703
77.5	51.207	49.288	47.571	45.551	43.127	40.602	38.380	36.461	34.946	33.633
80.0	40.804	39.390	37.875	36.259	34.239	32.320	30.502	28.987	27.775	26.765
82.5	30.603	29.492	28.381	27.169	25.553	24.038	22.725	21.614	20.806	19.998
85.0	20.099	19.695	18.988	18.079	16.968	15.958	15.150	14.342	13.837	13.332
87.5	9.999	9.595	9.090	8.989	8.484	7.979	7.575	7.171	6.868	6.565
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	10.201	9.797	9.393	8.989	8.484	7.979	7.575	7.171	6.868	6.565
95.0	20.402	19.695	18.988	18.079	16.968	15.958	15.150	14.342	13.837	13.332
97.5	30.603	29.492	28.381	27.169	25.553	24.038	22.725	21.614	20.806	19.998
100.0	40.804	39.390	37.875	36.259	34.239	32.320	30.502	28.987	27.775	26.765
102.5	51.207	49.288	47.571	45.551	43.127	40.602	38.380	36.461	34.946	33.633
105.0	61.509	59.287	57.166	54.843	52.015	49.086	46.359	44.036	42.218	40.703
107.5	71.811	69.387	66.862	64.236	61.105	57.671	54.540	51.914	49.692	47.874
110.0	82.315	79.487	76.760	73.831	70.296	66.458	62.923	59.893	57.368	55.651
112.5	92.920	89.789	86.759	83.628	79.992	75.952	72.417	69.286	66.761	64.842
115.0	104.333	100.697	97.263	93.728	89.991	85.951	82.214	79.083	76.457	74.336
117.5	115.746	111.706	107.767	104.030	100.091	96.051	92.314	89.082	86.254	83.931
120.0	127.462	122.816	118.574	114.635	110.393	106.252	102.414	99.081	96.253	93.829
122.5	139.178	134.128	129.583	125.139	120.897	116.655	112.817	109.383	106.353	104.030
125.0	151.096	145.743	140.693	136.047	131.603	127.260	123.321	119.887	116.857	114.332
127.5	163.317	157.459	152.207	147.157	142.511	138.067	134.027	130.593	127.563	124.836
130.0	175.639	169.579	163.923	158.671	153.621	149.177	145.137	141.501	138.471	135.744
132.5	188.163	181.800	175.942	170.387	165.236	160.590	155.843	150.995	146.753	142.713
135.0	200.182	193.011	186.345	179.982	173.922	168.266	163.014	158.166	153.722	149.682
137.5	208.262	200.990	194.425	187.759	181.598	175.841	170.589	165.640	161.095	157.055
140.0	216.645	209.171	202.303	195.839	189.577	183.921	178.467	173.518	168.973	164.731
142.5	225.230	218.059	210.787	204.222	198.061	192.203	186.749	181.800	177.154	173.013
145.0	234.118	226.543	219.675	213.009	206.949	200.990	195.637	190.587	185.941	181.699
147.5	243.107	235.835	228.866	222.301	216.140	210.282	204.929	199.879	195.233	190.991
150.0	252.500	245.329	238.360	231.997	225.836	220.180	214.726	209.777	205.131	200.889
152.5	262.398	255.227	248.460	242.097	236.239	230.482	225.230	220.079	215.635	211.393
155.0	272.498	265.428	258.964	252.702	246.945	241.491	236.239	231.391	225.937	220.988
157.5	282.295	275.124	268.458	262.095	255.833	250.076	244.521	239.067	234.118	229.371
160.0	287.446	280.881	275.124	268.761	263.004	257.550	252.399	247.450	242.602	238.259
162.5	292.698	286.840	281.184	275.629	270.579	265.529	260.681	256.136	251.894	247.753
165.0	298.657	293.001	288.052	283.103	278.861	273.912	269.670	265.529	261.388	257.752
167.5	303.909	299.263	295.122	290.880	286.840	282.800	279.063	275.528	272.094	268.761
170.0	309.969	306.131	303.000	298.960	295.728	292.395	289.264	286.133	283.103	280.376
172.5	316.130	313.201	310.272	307.444	305.222	302.192	299.768	297.445	295.122	292.900
175.0	322.392	320.372	318.453	316.534	314.615	312.797	310.979	309.161	307.444	305.929
177.5	328.856	327.846	326.836	325.927	324.917	324.008	323.099	322.190	321.281	320.473
180.0	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320

**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	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421
2.5	319.665	318.857	318.049	317.342	316.635	316.029	315.322	314.817	314.211	313.706
5.0	304.515	303.101	301.788	300.475	299.263	298.051	296.940	295.930	294.920	294.011
7.5	290.779	288.658	286.638	285.224	283.103	281.487	279.972	278.457	277.144	275.831
10.0	277.750	275.225	272.801	270.377	268.155	265.933	264.014	262.297	260.681	259.166

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CANDELA TABULATION - (Cont.)

12.5	265.529	262.903	259.671	257.045	254.520	252.096	249.773	247.652	245.733	244.117
15.0	254.318	250.985	247.652	245.026	241.794	239.269	236.744	234.421	232.199	230.280
17.5	243.713	240.077	236.643	233.310	230.078	227.250	224.624	222.200	219.877	217.655
20.0	234.017	229.977	226.139	222.705	219.473	216.342	213.514	210.888	208.565	206.242
22.5	224.725	220.685	216.645	212.807	209.474	206.343	203.313	200.586	198.162	195.940
25.0	216.342	211.898	207.858	204.020	200.283	197.051	194.021	191.193	188.668	186.446
27.5	207.454	203.818	199.475	195.637	192.001	188.567	185.537	182.709	180.083	177.760
30.0	196.950	193.314	190.082	187.153	184.224	180.891	177.760	174.831	172.205	169.680
32.5	187.052	183.517	180.285	177.457	174.831	172.609	170.387	167.357	164.731	162.307
35.0	177.861	174.326	171.195	168.367	165.842	163.519	161.600	159.883	157.863	155.338
37.5	169.074	165.741	162.610	159.782	157.257	154.934	153.015	151.399	149.985	148.773
40.0	161.095	157.661	154.429	151.702	149.177	146.955	144.935	143.218	141.804	140.693
42.5	153.318	149.985	146.854	143.925	141.400	139.077	136.956	135.037	133.623	132.512
45.0	146.046	142.612	139.380	136.451	133.724	131.300	128.977	127.058	125.442	124.028
47.5	138.976	135.542	132.310	129.280	126.250	123.523	120.998	118.776	116.958	115.443
50.0	132.310	128.775	125.341	122.008	118.675	115.645	112.817	110.494	108.575	106.959
52.5	122.715	120.594	118.372	114.736	111.100	107.767	104.636	102.414	100.293	98.475
55.0	112.110	110.090	107.767	105.444	103.121	99.788	96.960	94.536	92.415	90.496
57.5	101.808	99.586	97.364	95.041	92.718	90.698	89.082	86.961	84.840	82.820
60.0	91.708	89.587	87.365	85.143	83.022	81.305	79.891	78.780	77.669	75.548
62.5	81.911	79.891	77.770	75.750	73.932	72.417	71.104	69.993	68.983	68.478
65.0	72.417	70.498	68.579	66.761	65.246	63.933	62.721	61.610	60.701	60.297
67.5	63.125	61.307	59.792	58.378	57.065	55.853	54.742	53.530	52.924	52.520
70.0	54.237	52.722	51.510	50.298	49.086	47.975	46.864	46.056	45.450	44.945
72.5	46.258	44.743	43.430	42.521	41.511	40.299	39.390	38.683	38.279	37.774
75.0	39.289	37.976	36.865	35.855	34.643	33.330	32.219	31.714	31.209	31.007
77.5	32.522	31.411	30.502	29.593	28.482	27.371	26.462	25.654	25.048	24.442
80.0	25.856	24.947	24.240	23.432	22.523	21.715	20.907	20.301	19.796	19.291
82.5	19.291	18.685	18.079	17.372	16.766	16.059	15.554	15.150	14.645	14.241
85.0	12.827	12.322	12.019	11.514	11.110	10.605	10.302	9.999	9.696	9.494
87.5	6.464	6.161	5.959	5.757	5.555	5.252	5.151	4.949	4.848	4.747
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	6.464	6.161	5.959	5.757	5.555	5.252	5.151	4.949	4.848	4.747
95.0	12.827	12.322	12.019	11.514	11.110	10.605	10.302	9.999	9.696	9.494
97.5	19.291	18.685	18.079	17.372	16.766	16.059	15.554	15.150	14.645	14.241
100.0	25.856	24.947	24.240	23.432	22.523	21.715	20.907	20.301	19.796	19.291
102.5	32.522	31.411	30.502	29.593	28.684	27.371	26.462	25.654	25.048	24.543
105.0	39.289	37.976	36.865	35.855	34.643	33.330	32.219	31.714	31.310	31.007
107.5	46.258	44.743	43.430	42.521	41.511	40.400	39.390	38.683	38.279	37.774
110.0	54.237	52.722	51.510	50.298	49.086	47.975	46.864	46.056	45.450	44.945
112.5	63.125	61.509	59.792	58.378	57.065	55.853	54.742	53.530	52.924	52.520
115.0	72.417	70.498	68.579	66.761	65.246	63.933	62.721	61.711	60.701	60.297
117.5	82.113	79.891	77.770	75.750	73.932	72.417	71.104	69.993	68.983	68.478
120.0	91.708	89.587	87.365	85.143	83.022	81.305	79.891	78.780	77.669	75.548
122.5	101.808	99.586	97.364	95.041	92.718	90.698	89.082	86.961	84.840	82.820
125.0	112.110	110.090	107.969	105.444	103.121	99.788	97.061	94.536	92.415	90.496
127.5	122.715	120.594	118.473	114.736	111.100	107.767	104.737	102.414	100.293	98.475
130.0	132.310	128.775	125.341	122.008	118.675	115.645	112.918	110.494	108.575	106.959
132.5	138.976	135.542	132.310	129.280	126.250	123.523	120.998	118.776	116.958	115.443
135.0	146.046	142.612	139.380	136.451	133.724	131.300	128.977	127.058	125.442	124.028
137.5	153.318	149.985	146.955	143.925	141.400	139.077	136.956	135.037	133.623	132.512
140.0	161.095	157.661	154.429	151.702	149.177	146.955	144.935	143.218	141.804	140.693
142.5	169.074	165.741	162.610	159.782	157.257	155.035	153.015	151.500	149.985	148.773
145.0	177.861	174.326	171.195	168.367	165.842	163.519	161.600	159.883	157.863	155.338
147.5	187.153	183.517	180.285	177.457	174.831	172.609	170.387	167.357	164.832	162.307
150.0	196.950	193.314	190.082	187.153	184.224	180.891	177.760	174.831	172.205	169.680

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CANDELA TABULATION - (Cont.)

152.5	207.454	203.919	199.475	195.637	192.001	188.567	185.537	182.709	180.083	177.760
155.0	216.342	211.898	207.858	204.020	200.283	197.051	194.021	191.193	188.668	186.446
157.5	224.725	220.685	216.645	212.807	209.474	206.343	203.313	200.586	198.162	195.940
160.0	234.017	229.977	226.139	222.806	219.473	216.342	213.514	210.989	208.565	206.242
162.5	243.713	240.077	236.643	233.310	230.179	227.250	224.624	222.200	219.877	217.655
165.0	254.318	250.985	247.652	245.026	241.794	239.269	236.744	234.421	232.199	230.280
167.5	265.529	262.903	259.671	257.045	254.520	252.096	249.773	247.652	245.733	244.117
170.0	277.750	275.225	272.801	270.377	268.155	265.933	264.014	262.297	260.681	259.166
172.5	290.779	288.658	286.638	285.224	283.103	281.487	279.972	278.457	277.144	275.831
175.0	304.515	303.101	301.788	300.475	299.263	298.051	296.940	295.930	294.920	294.011
177.5	319.665	318.857	318.049	317.342	316.635	316.029	315.322	314.817	314.211	313.706
180.0	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320

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	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421
2.5	313.302	312.797	312.494	312.090	311.787	311.585	311.383	311.181	311.080	310.979
5.0	293.203	292.496	291.789	291.183	290.678	290.173	289.769	289.466	289.264	289.163
7.5	274.720	273.710	272.700	271.892	271.084	270.478	269.973	269.468	269.165	268.963
10.0	257.853	256.540	255.429	254.419	253.510	252.702	252.096	251.591	251.187	250.884
12.5	242.501	241.087	239.774	238.663	237.653	236.744	236.037	235.431	235.027	234.724
15.0	228.563	226.947	225.533	224.321	223.210	222.200	221.392	220.786	220.281	219.978
17.5	216.241	214.120	212.605	211.292	210.080	209.070	208.262	207.555	207.050	206.747
20.0	204.222	202.404	200.788	199.475	198.263	197.253	196.344	195.738	195.233	194.829
22.5	193.819	191.799	190.183	188.870	187.759	186.749	185.941	185.234	184.729	184.426
25.0	184.426	182.507	180.891	179.477	178.265	177.154	176.346	175.740	175.235	174.932
27.5	175.740	173.821	172.104	170.589	169.377	168.367	167.458	166.852	166.347	166.044
30.0	167.660	165.741	164.024	162.509	161.196	160.186	159.378	158.772	158.368	158.166
32.5	160.085	158.267	156.550	155.035	153.722	152.712	151.904	151.197	150.793	150.591
35.0	153.116	151.197	149.480	147.965	146.652	145.541	144.531	143.925	143.420	143.117
37.5	146.551	144.430	142.713	140.996	139.582	138.370	137.360	136.552	135.946	135.744
40.0	139.885	137.966	135.946	134.128	132.613	131.199	129.987	129.078	128.371	128.068
42.5	131.603	130.997	129.280	127.058	125.240	123.624	122.210	121.200	120.493	120.089
45.0	123.018	122.210	121.806	119.685	117.564	115.746	114.231	113.120	112.413	112.009
47.5	114.231	113.221	112.413	111.807	109.686	107.666	106.151	104.939	104.030	103.525
50.0	105.444	104.232	103.323	102.717	101.707	99.586	97.869	96.657	95.950	95.546
52.5	96.960	95.647	94.435	93.425	92.819	91.708	89.991	88.981	88.274	88.072
55.0	88.779	87.264	85.951	84.941	84.234	84.032	82.921	81.911	81.305	81.002
57.5	81.002	79.588	78.275	77.265	76.659	76.558	76.558	75.447	74.740	74.336
60.0	73.932	72.518	71.104	70.195	69.589	69.387	69.791	69.387	68.175	67.468
62.5	67.468	65.751	64.438	63.428	62.721	62.519	62.317	62.620	61.509	60.802
65.0	59.893	59.489	57.974	56.762	55.853	55.146	55.045	55.449	55.247	54.237
67.5	52.015	51.813	51.308	50.096	48.985	48.278	48.177	48.278	48.884	47.672
70.0	44.541	44.036	43.632	43.329	42.420	41.713	41.410	41.410	41.511	41.006
72.5	37.370	36.966	36.663	36.259	35.855	35.653	35.350	34.845	34.441	34.946
75.0	30.603	30.300	30.098	29.896	29.694	29.795	29.492	28.785	28.684	28.785
77.5	24.240	24.139	24.139	24.139	24.240	24.139	23.836	23.634	23.331	23.129
80.0	18.786	18.685	18.786	18.988	19.089	18.988	18.887	18.786	18.786	18.584
82.5	14.039	13.938	13.938	14.039	14.241	14.544	14.443	14.342	14.443	14.645
85.0	9.292	9.191	9.292	9.393	9.494	9.696	9.999	10.504	6.767	6.464
87.5	4.646	4.646	4.646	4.646	4.747	4.848	4.949	5.252	0.808	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	4.646	4.646	4.646	4.646	4.747	4.848	4.949	5.252	0.808	0.000
95.0	9.292	9.191	9.292	9.393	9.494	9.696	9.999	10.504	6.767	6.464
97.5	14.039	13.938	13.938	14.039	14.241	14.544	14.443	14.342	14.443	14.645

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CANDELA TABULATION - (Cont.)

100.0	18.786	18.685	18.786	18.988	19.089	18.988	18.887	18.786	18.786	18.584
102.5	24.240	24.139	24.139	24.240	24.240	24.139	23.836	23.634	23.331	23.129
105.0	30.603	30.300	30.098	29.896	29.694	29.795	29.492	28.785	28.684	28.785
107.5	37.370	36.966	36.663	36.259	35.855	35.653	35.350	34.845	34.441	34.946
110.0	44.541	44.036	43.632	43.329	42.420	41.713	41.410	41.410	41.511	41.006
112.5	52.015	51.813	51.308	50.096	48.985	48.278	48.177	48.379	48.884	47.672
115.0	59.893	59.489	57.974	56.762	55.853	55.146	55.045	55.449	55.247	54.237
117.5	67.468	65.751	64.438	63.428	62.721	62.519	62.317	62.620	61.509	60.802
120.0	73.932	72.518	71.104	70.195	69.589	69.387	69.791	69.387	68.175	67.468
122.5	81.002	79.588	78.275	77.265	76.659	76.558	76.558	75.447	74.740	74.336
125.0	88.779	87.264	85.951	84.941	84.234	84.032	82.921	81.911	81.305	81.002
127.5	96.960	95.647	94.435	93.425	92.819	91.708	89.991	88.981	88.274	88.072
130.0	105.444	104.232	103.323	102.717	101.707	99.586	97.869	96.657	95.950	95.546
132.5	114.231	113.221	112.413	111.807	109.686	107.666	106.151	104.939	104.030	103.525
135.0	123.018	122.210	121.806	119.685	117.564	115.746	114.231	113.120	112.413	112.009
137.5	131.603	130.997	129.280	127.058	125.240	123.624	122.210	121.200	120.493	120.089
140.0	139.885	137.966	135.946	134.128	132.613	131.199	129.987	129.078	128.371	128.068
142.5	146.551	144.430	142.713	140.996	139.582	138.370	137.360	136.552	136.047	135.744
145.0	153.116	151.197	149.480	147.965	146.652	145.541	144.531	143.925	143.420	143.117
147.5	160.085	158.267	156.550	155.035	153.722	152.712	151.904	151.197	150.793	150.591
150.0	167.660	165.741	164.024	162.509	161.196	160.186	159.378	158.772	158.368	158.166
152.5	175.740	173.821	172.104	170.589	169.377	168.367	167.458	166.852	166.347	166.044
155.0	184.426	182.507	180.891	179.477	178.265	177.154	176.346	175.740	175.235	174.932
157.5	193.819	191.799	190.284	188.870	187.759	186.749	185.941	185.234	184.729	184.426
160.0	204.222	202.404	200.788	199.475	198.263	197.253	196.344	195.738	195.233	194.829
162.5	216.241	214.120	212.605	211.292	210.080	209.070	208.262	207.555	207.050	206.747
165.0	228.563	226.947	225.533	224.321	223.210	222.200	221.392	220.786	220.281	219.978
167.5	242.501	241.087	239.774	238.663	237.653	236.744	236.037	235.431	235.027	234.724
170.0	257.853	256.540	255.429	254.419	253.510	252.702	252.096	251.591	251.187	250.884
172.5	274.720	273.710	272.700	271.892	271.185	270.478	269.973	269.468	269.165	268.963
175.0	293.203	292.496	291.789	291.183	290.678	290.173	289.769	289.466	289.264	289.163
177.5	313.302	312.797	312.494	312.090	311.787	311.585	311.383	311.181	311.080	310.979
180.0	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320

Vert. Angles **Horizontal Angles**

	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0.0	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421
2.5	310.979	310.979	311.080	310.979	310.979	311.080	311.080	311.282	311.383	311.585
5.0	289.062	289.163	289.264	289.163	289.163	289.264	289.365	289.567	289.870	290.274
7.5	268.862	268.963	269.064	268.963	268.963	269.064	269.266	269.569	269.973	270.579
10.0	250.783	250.783	250.985	250.884	250.884	250.985	251.187	251.591	252.197	252.803
12.5	234.623	234.623	234.825	234.623	234.623	234.825	235.128	235.532	236.138	236.845
15.0	219.877	219.877	220.079	219.877	219.877	220.079	220.382	220.887	221.493	222.301
17.5	206.545	206.646	206.848	206.646	206.646	206.848	207.151	207.656	208.363	209.171
20.0	194.728	194.829	195.031	194.829	194.829	195.031	195.334	195.839	196.546	197.455
22.5	184.325	184.426	184.729	184.527	184.426	184.527	184.931	185.436	186.042	186.951
25.0	174.831	174.932	175.235	174.932	174.831	174.932	175.235	175.841	176.548	177.356
27.5	166.044	166.145	166.448	166.145	166.044	166.044	166.246	166.751	167.458	168.367
30.0	158.166	158.267	158.671	158.267	158.065	157.964	158.166	158.570	159.176	159.984
32.5	150.591	150.793	151.197	150.692	150.490	150.389	150.490	150.894	151.399	152.207
35.0	143.117	143.319	143.723	143.319	143.016	143.016	143.117	143.521	144.127	144.935
37.5	135.643	135.845	136.249	135.744	135.542	135.643	135.845	136.350	137.057	137.966
40.0	127.967	128.270	128.674	128.169	127.866	127.866	128.270	128.876	129.785	130.896
42.5	120.089	120.291	120.897	120.089	119.685	119.584	119.988	120.695	121.806	123.422
45.0	112.009	112.312	113.019	111.807	110.898	110.494	110.595	111.302	112.514	114.433

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CANDELA TABULATION - (Cont.)

47.5	103.525	103.929	104.737	102.919	101.606	100.899	100.596	101.000	102.111	103.828
50.0	95.748	96.253	97.162	94.738	92.819	91.506	90.698	90.698	91.304	92.920
52.5	88.173	88.577	89.587	86.557	84.032	82.113	80.901	80.396	80.800	81.911
55.0	81.204	81.810	82.719	78.881	75.649	73.023	71.104	70.195	70.094	70.801
57.5	74.235	74.538	75.346	71.306	67.670	64.640	62.115	60.196	59.388	60.196
60.0	67.367	67.670	68.579	64.034	59.994	56.661	53.934	51.914	51.308	51.510
62.5	60.499	60.701	61.509	56.661	52.318	48.783	45.854	43.531	44.440	45.147
65.0	53.833	53.934	54.641	49.389	44.844	41.006	37.875	37.269	38.481	39.491
67.5	46.763	46.561	47.066	42.117	37.673	33.734	30.401	31.815	33.431	34.744
70.0	39.693	39.289	39.592	34.845	30.805	27.169	26.462	27.876	29.290	30.906
72.5	33.835	33.229	33.431	28.886	24.947	21.412	22.826	24.745	26.462	27.876
75.0	28.179	27.371	27.472	23.331	19.897	18.786	20.301	22.119	24.038	24.543
77.5	23.129	18.786	14.443	15.352	15.655	16.665	18.382	20.200	20.705	20.907
80.0	18.584	15.453	11.413	12.625	13.837	15.251	16.867	17.069	17.271	17.574
82.5	14.241	11.615	0.000	9.292	12.221	13.837	13.837	14.039	14.342	14.544
85.0	9.191	3.030	0.000	2.525	9.292	6.262	6.868	11.211	10.504	9.898
87.5	0.505	0.000	0.000	0.000	0.505	0.000	0.808	5.656	5.252	4.949
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.505	0.000	0.000	0.000	0.505	0.000	0.808	5.656	5.252	4.949
95.0	9.191	3.030	0.000	2.525	9.292	6.262	6.868	11.211	10.504	9.898
97.5	14.241	11.615	0.000	9.292	12.221	13.837	13.837	14.039	14.342	14.544
100.0	18.584	15.453	11.413	12.625	13.837	15.251	16.867	17.069	17.271	17.574
102.5	23.129	18.786	14.443	15.352	15.655	16.665	18.382	20.200	20.705	20.907
105.0	28.179	27.371	27.472	23.331	19.897	18.786	20.301	22.119	24.038	24.543
107.5	33.835	33.229	33.431	28.886	24.947	21.412	22.826	24.745	26.462	27.876
110.0	39.693	39.289	39.592	34.845	30.805	27.169	26.462	27.876	29.290	30.906
112.5	46.763	46.561	47.066	42.117	37.673	33.734	30.401	31.815	33.431	34.744
115.0	53.833	53.934	54.641	49.389	44.844	41.006	37.875	37.269	38.481	39.491
117.5	60.499	60.701	61.509	56.661	52.318	48.783	45.854	43.531	44.440	45.147
120.0	67.367	67.670	68.579	64.034	59.994	56.661	53.934	51.914	51.308	51.510
122.5	74.235	74.538	75.346	71.306	67.670	64.640	62.115	60.196	59.388	60.196
125.0	81.204	81.810	82.719	78.881	75.649	73.023	71.104	70.195	70.094	70.801
127.5	88.173	88.577	89.587	86.557	84.032	82.113	80.901	80.396	80.800	81.911
130.0	95.748	96.253	97.162	94.738	92.819	91.506	90.698	90.698	91.304	92.920
132.5	103.525	103.929	104.737	102.919	101.606	100.899	100.596	101.000	102.111	103.828
135.0	112.009	112.312	113.019	111.807	110.898	110.494	110.595	111.302	112.514	114.433
137.5	120.089	120.291	120.897	120.089	119.685	119.584	119.988	120.695	121.806	123.422
140.0	127.967	128.270	128.674	128.169	127.866	127.866	128.270	128.876	129.785	130.896
142.5	135.643	135.845	136.249	135.744	135.542	135.643	135.845	136.350	137.057	137.966
145.0	143.117	143.319	143.723	143.319	143.016	143.016	143.117	143.521	144.127	144.935
147.5	150.591	150.793	151.197	150.692	150.490	150.389	150.490	150.894	151.399	152.207
150.0	158.166	158.267	158.671	158.267	158.065	157.964	158.166	158.570	159.176	159.984
152.5	166.044	166.145	166.448	166.145	166.044	166.044	166.246	166.751	167.458	168.367
155.0	174.831	174.932	175.235	174.932	174.831	174.932	175.235	175.841	176.548	177.356
157.5	184.325	184.426	184.729	184.527	184.426	184.527	184.931	185.436	186.042	186.951
160.0	194.728	194.829	195.031	194.829	194.829	195.031	195.334	195.839	196.546	197.455
162.5	206.545	206.646	206.848	206.646	206.646	206.848	207.151	207.656	208.363	209.171
165.0	219.877	219.877	220.079	219.877	219.877	220.079	220.382	220.887	221.493	222.301
167.5	234.623	234.623	234.825	234.623	234.623	234.825	235.128	235.532	236.138	236.845
170.0	250.783	250.783	250.985	250.884	250.884	250.985	251.187	251.591	252.197	252.803
172.5	268.862	268.963	269.064	268.963	268.963	269.064	269.266	269.569	269.973	270.579
175.0	289.062	289.163	289.264	289.163	289.163	289.264	289.365	289.567	289.870	290.274
177.5	310.979	310.979	311.080	310.979	310.979	311.080	311.080	311.282	311.383	311.585
180.0	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320

IES INDOOR REPORT
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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	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421
2.5	311.888	312.191	312.494	312.898	313.403	313.807	314.312	314.918	315.524	316.130
5.0	290.779	291.284	291.991	292.597	293.405	294.213	295.223	296.132	297.243	298.354
7.5	271.286	271.993	272.902	273.912	274.922	276.134	277.447	278.760	280.174	281.790
10.0	253.611	254.621	255.631	256.843	258.156	259.469	260.984	262.701	264.418	266.337
12.5	237.754	238.865	239.976	241.390	242.804	244.420	246.137	248.056	250.278	252.500
15.0	223.311	224.523	225.735	227.250	228.866	230.583	232.603	234.825	237.148	239.673
17.5	210.282	211.494	212.807	214.322	216.443	217.958	220.180	222.604	225.129	227.755
20.0	198.465	199.778	201.091	202.606	204.525	206.646	208.868	211.393	213.918	216.847
22.5	187.961	189.173	190.587	192.203	194.122	196.243	198.566	200.990	203.818	206.848
25.0	178.467	179.679	181.093	182.810	184.729	186.749	189.072	191.698	194.627	197.657
27.5	169.478	170.791	172.306	174.023	175.942	178.063	180.487	183.214	186.042	189.072
30.0	160.994	162.206	163.822	165.640	167.761	170.084	172.609	175.235	178.164	181.396
32.5	153.217	154.429	155.944	157.762	159.681	162.004	164.832	167.761	170.791	173.114
35.0	145.844	147.157	148.672	150.389	152.409	154.732	157.257	159.580	161.600	163.822
37.5	139.178	140.390	141.804	143.420	145.440	147.763	148.975	150.591	152.510	154.732
40.0	132.209	133.724	135.441	137.259	138.875	139.077	139.986	141.602	143.723	146.147
42.5	124.937	126.755	128.876	130.290	129.987	130.189	130.997	132.411	134.633	137.461
45.0	116.453	118.978	121.099	120.392	120.291	120.594	121.503	123.018	125.240	128.270
47.5	106.353	109.282	109.383	109.484	109.787	110.292	111.302	113.120	115.645	118.776
50.0	95.344	96.354	96.859	97.768	98.576	99.485	100.697	102.515	105.242	108.878
52.5	83.022	83.628	84.638	85.850	87.163	88.476	89.890	91.809	94.536	98.475
55.0	71.407	72.316	73.225	74.538	76.053	77.669	79.285	81.103	84.032	87.668
57.5	61.004	62.014	63.125	64.337	65.751	67.468	69.084	70.902	73.326	77.063
60.0	52.217	53.126	54.136	55.247	56.560	57.974	59.691	61.913	64.438	67.367
62.5	45.652	46.056	46.763	47.369	48.379	49.894	52.015	54.237	56.358	58.883
65.0	40.299	40.804	41.107	41.208	41.915	43.531	45.248	47.369	49.288	51.207
67.5	35.855	36.461	36.663	36.663	36.966	38.077	39.491	41.006	42.723	44.339
70.0	32.219	32.724	32.623	32.522	32.724	33.229	34.340	35.451	36.764	38.077
72.5	28.482	28.583	28.684	28.583	28.886	29.189	29.795	30.502	31.310	32.219
75.0	24.543	24.745	24.846	24.947	25.048	25.351	25.755	26.159	26.462	26.866
77.5	21.008	21.109	21.311	21.210	21.311	21.715	21.614	21.715	21.917	22.220
80.0	17.776	17.776	17.877	17.473	17.271	17.170	17.170	17.271	17.372	17.675
82.5	14.241	13.736	13.433	13.029	12.928	12.827	12.827	12.928	13.029	13.130
85.0	9.494	9.191	8.888	8.686	8.585	8.484	8.484	8.585	8.585	8.686
87.5	4.747	4.545	4.444	4.343	4.242	4.242	4.242	4.343	4.343	4.343
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	4.747	4.545	4.444	4.343	4.242	4.242	4.242	4.343	4.343	4.343
95.0	9.494	9.191	8.888	8.686	8.484	8.484	8.484	8.585	8.585	8.686
97.5	14.241	13.736	13.433	13.029	12.928	12.827	12.827	12.928	13.029	13.130
100.0	17.776	17.776	17.877	17.473	17.271	17.170	17.170	17.271	17.372	17.675
102.5	21.008	21.109	21.311	21.210	21.311	21.614	21.614	21.715	21.917	22.220
105.0	24.543	24.745	24.846	24.947	25.048	25.351	25.654	26.159	26.462	26.866
107.5	28.482	28.583	28.684	28.583	28.886	29.189	29.795	30.502	31.310	32.118
110.0	32.219	32.724	32.623	32.522	32.724	33.229	34.340	35.451	36.764	38.077
112.5	35.855	36.461	36.663	36.663	36.966	38.077	39.491	41.006	42.723	44.339
115.0	40.299	40.804	41.107	41.208	41.915	43.531	45.248	47.268	49.288	51.207
117.5	45.652	46.056	46.763	47.369	48.379	49.894	52.015	54.237	56.358	58.883
120.0	52.217	53.126	54.136	55.247	56.560	57.974	59.691	61.913	64.438	67.367
122.5	61.004	62.014	63.125	64.337	65.751	67.468	69.084	70.902	73.326	77.063
125.0	71.407	72.316	73.225	74.538	76.053	77.669	79.285	81.103	83.931	87.668
127.5	83.022	83.628	84.638	85.850	87.163	88.476	89.890	91.809	94.435	98.475
130.0	95.344	96.354	96.859	97.768	98.576	99.485	100.697	102.515	105.242	108.878

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CANDELA TABULATION - (Cont.)

132.5	106.353	109.282	109.383	109.484	109.787	110.292	111.302	113.120	115.544	118.776
135.0	116.453	118.978	121.099	120.392	120.291	120.594	121.503	123.018	125.240	128.270
137.5	124.937	126.755	128.876	130.290	129.987	130.189	130.997	132.411	134.633	137.461
140.0	132.209	133.724	135.441	137.259	138.875	139.077	139.986	141.602	143.723	146.147
142.5	139.178	140.390	141.804	143.420	145.440	147.763	148.975	150.591	152.510	154.631
145.0	145.844	147.157	148.672	150.389	152.409	154.732	157.257	159.580	161.600	163.822
147.5	153.217	154.429	155.944	157.762	159.681	162.004	164.731	167.761	170.791	173.114
150.0	160.994	162.206	163.822	165.640	167.761	170.084	172.609	175.235	178.164	181.396
152.5	169.478	170.791	172.306	174.023	175.942	178.063	180.487	183.214	186.042	189.072
155.0	178.467	179.679	181.093	182.810	184.729	186.749	189.072	191.698	194.627	197.657
157.5	187.961	189.173	190.587	192.203	194.122	196.243	198.566	200.990	203.818	206.848
160.0	198.465	199.778	201.091	202.606	204.525	206.646	208.868	211.292	213.918	216.847
162.5	210.282	211.494	212.807	214.322	216.443	217.958	220.180	222.604	225.129	227.755
165.0	223.311	224.523	225.735	227.250	228.866	230.583	232.603	234.825	237.148	239.673
167.5	237.754	238.865	239.976	241.390	242.804	244.420	246.137	248.056	250.278	252.500
170.0	253.611	254.621	255.631	256.843	258.055	259.469	260.984	262.701	264.418	266.337
172.5	271.286	271.993	272.902	273.912	274.922	276.134	277.447	278.760	280.174	281.790
175.0	290.779	291.284	291.991	292.597	293.405	294.213	295.223	296.132	297.243	298.354
177.5	311.888	312.191	312.494	312.898	313.403	313.807	314.312	314.918	315.524	316.130
180.0	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320

**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	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421
2.5	316.837	317.544	318.251	319.059	319.867	320.675	321.483	322.392	323.301	324.210
5.0	299.465	300.778	302.091	303.404	304.818	306.232	307.747	309.565	311.282	313.201
7.5	283.406	285.628	287.042	289.062	291.183	293.405	295.627	297.950	300.374	302.798
10.0	268.559	270.781	273.205	275.730	278.255	280.881	283.709	286.739	289.870	293.102
12.5	254.924	257.550	260.176	263.408	266.034	269.367	272.801	276.235	279.871	283.608
15.0	242.400	245.531	248.258	251.591	255.025	258.459	262.196	266.337	270.579	274.821
17.5	230.785	233.916	237.249	240.784	244.420	248.460	252.702	256.944	261.489	266.539
20.0	220.079	223.412	226.846	230.785	234.825	239.067	243.511	248.359	253.308	258.560
22.5	210.080	213.413	217.352	221.392	225.634	230.280	235.128	240.077	245.531	251.187
25.0	200.889	204.626	208.464	212.504	217.150	221.897	226.947	232.502	237.350	242.602
27.5	192.607	196.243	200.182	204.626	208.161	212.201	216.645	221.190	226.341	231.593
30.0	184.830	187.860	190.890	194.021	197.758	201.596	205.939	210.787	215.837	221.392
32.5	175.336	178.063	180.891	184.224	187.961	191.799	196.142	200.889	205.939	211.494
35.0	166.145	168.670	171.599	174.831	178.467	182.507	186.850	191.496	196.647	202.101
37.5	157.257	159.883	162.711	166.044	169.680	173.720	178.063	182.810	187.759	193.415
40.0	148.773	151.500	154.530	157.661	161.297	165.236	169.680	174.427	179.477	184.931
42.5	140.390	143.521	146.652	149.783	153.217	157.257	161.600	166.448	171.599	176.952
45.0	131.906	135.441	138.976	142.309	145.844	149.581	154.025	158.873	164.024	169.377
47.5	122.715	127.159	131.300	135.138	138.673	142.410	146.652	151.399	156.752	161.802
50.0	113.221	118.170	123.321	128.068	131.805	135.340	138.168	141.804	145.945	150.288
52.5	103.121	108.777	114.837	118.877	122.008	124.331	127.260	130.795	134.835	139.279
55.0	92.617	97.566	102.616	107.161	110.696	113.625	116.655	120.089	124.129	128.371
57.5	81.305	85.749	90.597	95.243	99.384	102.919	106.050	109.585	113.524	117.766
60.0	71.003	75.043	79.386	83.931	88.375	92.213	95.546	99.283	103.222	107.464
62.5	61.913	65.246	68.983	73.225	77.669	81.406	85.143	89.082	93.122	97.263
65.0	53.530	56.257	59.489	63.125	66.963	70.902	74.841	78.881	83.123	87.264
67.5	46.258	48.379	50.803	53.631	56.964	60.701	64.539	68.882	73.225	77.467
70.0	39.390	41.006	42.723	44.642	47.470	50.803	54.439	58.984	63.630	67.973
72.5	33.128	34.239	35.350	37.168	39.693	42.925	46.662	50.803	55.045	58.883
75.0	27.674	28.785	29.896	31.411	33.532	36.158	39.390	42.925	46.662	50.096
77.5	22.927	23.634	24.644	25.856	27.573	29.795	32.421	35.249	38.481	41.410

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BOLTPRO-SM-LED35-SO-SAL.IES

CANDELA TABULATION - (Cont.)

80.0	18.079	18.685	19.493	20.503	21.715	23.533	25.654	27.977	30.502	32.926
82.5	13.433	13.938	14.544	15.251	16.160	17.473	18.988	20.806	22.826	24.644
85.0	8.888	9.292	9.595	10.100	10.706	11.514	12.625	13.736	15.150	16.362
87.5	4.444	4.646	4.747	4.949	5.353	5.757	6.262	6.868	7.575	8.181
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	4.444	4.646	4.747	4.949	5.353	5.757	6.262	6.868	7.575	8.181
95.0	8.888	9.292	9.595	10.100	10.706	11.514	12.625	13.736	15.150	16.362
97.5	13.433	13.938	14.544	15.251	16.160	17.473	18.988	20.806	22.826	24.644
100.0	18.079	18.685	19.493	20.402	21.715	23.533	25.654	27.977	30.502	32.926
102.5	22.826	23.634	24.644	25.856	27.573	29.795	32.421	35.249	38.481	41.410
105.0	27.674	28.785	29.896	31.411	33.532	36.158	39.390	42.925	46.662	50.096
107.5	33.128	34.239	35.350	37.168	39.693	42.925	46.662	50.803	55.045	58.883
110.0	39.390	41.006	42.723	44.642	47.470	50.803	54.439	58.984	63.630	67.973
112.5	46.258	48.379	50.803	53.429	56.964	60.701	64.539	68.781	73.225	77.467
115.0	53.530	56.257	59.489	63.125	66.963	70.902	74.841	78.881	83.123	87.264
117.5	61.913	65.246	68.983	73.225	77.467	81.406	85.143	89.082	93.122	97.263
120.0	71.003	75.043	79.386	83.931	88.375	92.213	95.546	99.283	103.222	107.464
122.5	81.305	85.749	90.597	95.243	99.384	102.919	106.050	109.585	113.524	117.766
125.0	92.617	97.566	102.414	107.161	110.696	113.625	116.655	120.089	124.129	128.371
127.5	103.121	108.777	114.837	118.877	122.008	124.331	127.260	130.795	134.835	139.279
130.0	113.221	118.170	123.321	128.068	131.805	135.340	138.168	141.804	145.945	150.288
132.5	122.715	127.159	131.300	135.138	138.673	142.410	146.652	151.399	156.752	161.802
135.0	131.906	135.441	138.875	142.309	145.844	149.581	154.025	158.873	164.024	169.377
137.5	140.390	143.521	146.551	149.783	153.217	157.257	161.600	166.448	171.599	176.952
140.0	148.773	151.500	154.530	157.661	161.297	165.236	169.680	174.427	179.477	184.931
142.5	157.257	159.883	162.711	166.044	169.680	173.720	178.063	182.810	187.759	193.415
145.0	166.145	168.670	171.599	174.831	178.467	182.507	186.850	191.496	196.647	202.101
147.5	175.336	178.063	180.891	184.224	187.860	191.799	196.142	200.889	205.939	211.494
150.0	184.830	187.860	190.890	194.021	197.758	201.596	205.939	210.787	215.837	221.392
152.5	192.607	196.243	200.182	204.525	208.161	212.201	216.645	221.190	226.341	231.593
155.0	200.889	204.626	208.464	212.504	217.150	221.897	226.947	232.502	237.350	242.602
157.5	210.080	213.413	217.352	221.392	225.634	230.280	235.128	240.077	245.531	251.187
160.0	220.079	223.412	226.846	230.785	234.825	239.067	243.511	248.359	253.308	258.560
162.5	230.684	233.916	237.249	240.784	244.420	248.460	252.702	256.944	261.489	266.539
165.0	242.400	245.531	248.258	251.591	255.025	258.459	262.196	266.337	270.579	274.821
167.5	254.924	257.550	260.176	263.408	266.034	269.367	272.801	276.235	279.871	283.608
170.0	268.559	270.781	273.205	275.730	278.255	280.881	283.709	286.739	289.870	293.102
172.5	283.406	285.628	287.042	289.062	291.183	293.405	295.627	297.950	300.374	302.798
175.0	299.465	300.778	302.091	303.404	304.818	306.232	307.747	309.565	311.282	313.201
177.5	316.837	317.544	318.251	319.059	319.867	320.675	321.483	322.392	323.301	324.210
180.0	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320

Vert. Horizontal Angles
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	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421
2.5	325.220	326.129	327.139	328.149	329.159	330.169	331.179	332.290	333.300	334.613
5.0	315.019	316.938	318.857	320.877	322.897	324.917	326.937	328.957	331.078	333.704
7.5	305.727	308.050	310.878	313.807	316.837	319.867	322.796	325.927	328.957	332.896
10.0	296.334	299.768	303.808	306.939	310.777	314.716	318.756	322.695	326.735	331.886
12.5	287.749	291.789	296.031	300.273	304.919	309.767	314.716	319.665	324.614	330.977
15.0	279.871	284.113	289.062	294.112	299.869	304.919	310.676	316.534	322.392	329.967
17.5	271.589	276.740	282.396	288.153	294.011	300.172	306.838	313.504	320.271	328.957
20.0	264.115	269.872	276.336	282.295	288.860	296.031	303.000	310.474	318.049	327.846
22.5	257.045	263.307	269.872	276.639	283.911	291.284	299.263	307.545	315.928	326.735
25.0	248.157	254.015	260.378	267.044	274.215	281.588	289.567	298.253	307.141	318.857

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

27.5	237.451	243.410	249.874	256.742	264.014	271.892	279.972	289.062	298.253	310.676
30.0	227.048	233.310	239.774	246.945	254.217	262.297	270.478	279.871	289.466	302.495
32.5	217.352	223.614	230.179	237.350	244.824	252.904	261.287	270.882	280.679	294.213
35.0	208.161	214.322	221.089	228.159	235.734	243.814	252.399	261.893	271.791	285.830
37.5	199.273	205.535	212.302	219.574	226.846	234.926	243.511	252.904	263.004	277.447
40.0	190.789	197.152	203.717	210.787	218.362	226.240	234.724	244.117	254.217	268.862
42.5	182.810	189.072	195.940	202.606	209.979	218.059	226.240	235.431	245.329	260.277
45.0	175.134	181.295	187.759	194.627	201.899	209.575	217.756	226.745	236.542	251.591
47.5	166.448	171.700	177.356	183.416	189.880	196.950	204.525	213.009	222.503	237.653
50.0	154.833	159.883	165.236	170.993	177.255	184.022	191.294	199.273	208.464	223.715
52.5	143.622	148.369	153.520	158.873	164.832	171.296	178.164	185.739	194.526	209.676
55.0	132.714	137.158	142.006	147.056	152.712	158.671	165.135	172.205	180.487	195.536
57.5	122.008	126.149	130.694	135.542	140.592	146.147	152.106	158.671	166.448	181.396
60.0	111.706	115.645	119.685	124.129	128.775	133.825	139.279	145.238	152.409	167.155
62.5	101.404	105.040	108.878	112.918	117.160	121.604	126.452	131.906	138.471	152.813
65.0	91.304	94.738	98.273	101.909	105.646	109.585	113.827	118.574	124.432	138.471
67.5	81.406	84.739	87.769	91.001	94.233	97.667	101.303	105.242	110.393	124.028
70.0	71.710	74.942	77.669	80.497	83.426	86.658	89.890	93.526	98.172	111.908
72.5	62.317	65.246	67.670	70.296	72.821	75.649	78.578	81.810	85.850	99.788
75.0	53.126	55.752	57.873	60.095	62.317	64.741	67.165	69.993	73.629	88.173
77.5	44.036	46.258	48.076	49.995	51.813	53.833	55.954	58.277	61.307	75.851
80.0	35.047	36.966	38.380	39.895	41.410	43.026	44.743	46.662	49.086	63.428
82.5	26.260	27.573	28.684	29.896	31.007	32.219	33.633	34.946	36.764	51.106
85.0	17.473	18.483	19.190	19.897	20.604	21.513	22.321	23.230	24.543	38.784
87.5	8.686	9.191	9.494	9.898	10.403	10.706	11.110	11.615	12.221	26.462
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	14.140
92.5	8.686	9.191	9.191	9.696	10.201	10.605	11.110	11.615	12.221	26.462
95.0	17.473	18.483	19.190	19.897	20.301	21.311	22.220	23.230	24.543	38.784
97.5	26.260	27.573	28.684	29.896	31.007	31.916	33.431	34.946	36.764	51.106
100.0	35.047	36.966	38.380	39.895	41.410	42.723	44.642	46.561	49.086	63.428
102.5	44.036	46.258	48.076	49.995	51.813	53.833	55.752	58.277	61.307	75.750
105.0	53.126	55.752	57.873	60.095	62.317	64.741	66.963	69.892	73.629	88.072
107.5	62.317	65.246	67.670	70.296	72.821	75.649	78.275	81.709	85.850	99.687
110.0	71.710	74.942	77.669	80.497	83.426	86.658	89.587	93.425	98.172	111.807
112.5	81.406	84.739	87.769	91.001	94.233	97.667	100.899	105.141	110.393	123.927
115.0	91.304	94.738	98.273	101.909	105.646	109.585	113.423	118.473	124.432	138.370
117.5	101.404	105.040	108.878	112.918	117.160	121.604	126.048	131.704	138.471	152.712
120.0	111.706	115.645	119.685	124.129	128.775	133.825	138.774	145.137	152.409	167.054
122.5	122.008	126.149	130.694	135.542	140.592	146.147	151.601	158.570	166.448	181.295
125.0	132.714	137.158	142.006	147.056	152.712	158.671	165.135	172.003	180.487	195.334
127.5	143.622	148.369	153.520	158.873	164.832	171.296	178.164	185.537	194.526	209.474
130.0	154.833	159.883	165.236	170.993	177.255	184.022	191.294	199.172	208.464	223.513
132.5	166.448	171.700	177.356	183.416	189.880	196.950	204.525	212.807	222.503	237.552
135.0	175.134	181.295	187.759	194.627	201.899	209.575	217.756	226.644	236.542	251.490
137.5	182.810	189.072	195.940	202.606	209.979	218.059	226.240	235.330	245.329	260.176
140.0	190.789	197.152	203.717	210.787	218.362	226.240	234.724	244.016	254.217	268.761
142.5	199.273	205.535	212.302	219.574	226.846	234.926	243.511	252.904	263.004	277.346
145.0	208.161	214.322	221.089	228.159	235.734	243.814	252.399	261.792	271.791	285.729
147.5	217.352	223.614	230.179	237.350	244.824	252.904	260.984	270.781	280.679	294.112
150.0	227.048	233.310	239.774	246.945	254.217	262.297	270.175	279.871	289.466	302.394
152.5	237.451	243.410	249.874	256.742	264.014	271.892	279.669	288.961	298.253	310.575
155.0	248.157	254.015	260.378	267.044	274.215	281.588	289.365	298.253	307.141	318.756
157.5	257.045	263.307	269.872	276.639	283.911	291.284	299.162	307.545	315.928	326.735
160.0	264.115	269.872	276.336	282.295	288.860	296.031	302.899	310.474	318.049	327.846
162.5	271.589	276.740	282.396	288.153	294.011	300.172	306.838	313.504	320.271	328.957
165.0	279.871	284.113	289.062	294.112	299.869	304.919	310.676	316.534	322.392	329.967

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BOLTPRO-SM-LED35-SO-SAL.IES

CANDELA TABULATION - (Cont.)

167.5	287.749	291.789	296.031	300.273	304.919	309.767	314.615	319.665	324.614	330.977
170.0	296.334	299.768	303.808	306.939	310.777	314.716	318.655	322.695	326.735	331.886
172.5	305.727	308.050	310.878	313.807	316.837	319.766	322.796	325.927	328.957	332.896
175.0	315.019	316.938	318.857	320.877	322.796	324.816	326.937	328.957	331.078	333.704
177.5	325.220	326.129	327.038	328.048	329.159	330.169	331.179	332.290	333.300	334.613
180.0	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320

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	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421
2.5	336.027	337.340	338.653	339.966	341.279	342.592	343.905	345.218	346.531	347.743
5.0	336.431	339.057	341.683	344.309	346.935	349.561	352.187	354.712	357.237	359.661
7.5	336.835	340.774	344.713	348.652	352.490	356.328	360.368	364.913	369.357	373.700
10.0	337.138	342.289	347.440	352.591	357.944	364.105	370.165	376.124	382.083	387.840
12.5	337.441	343.804	350.167	357.035	364.610	372.185	379.659	387.032	394.607	402.384
15.0	337.542	345.117	352.894	361.984	370.973	379.962	388.951	398.344	407.737	416.928
17.5	337.643	346.430	356.227	366.731	377.033	387.638	398.647	409.555	420.463	431.573
20.0	337.643	347.642	359.358	371.175	382.992	395.516	408.040	420.362	433.492	446.319
22.5	337.643	349.359	362.388	375.417	389.153	403.091	417.029	431.674	446.218	460.661
25.0	330.674	344.107	358.651	373.599	389.557	405.616	422.584	439.855	457.227	474.599
27.5	323.301	338.249	353.803	370.266	387.436	405.111	423.594	442.178	461.065	479.851
30.0	315.726	331.987	348.753	366.529	385.618	404.101	423.695	443.794	463.994	484.396
32.5	308.353	325.523	343.198	362.186	381.881	402.384	423.291	444.602	466.216	488.032
35.0	300.980	318.756	337.643	357.439	378.447	400.970	422.180	444.703	467.630	490.759
37.5	293.304	311.787	331.684	352.288	374.508	397.132	420.463	444.198	469.650	492.476
40.0	285.426	304.515	325.321	347.036	369.862	393.698	417.938	442.885	468.034	493.385
42.5	277.548	297.041	318.655	341.178	364.711	389.557	414.908	440.966	466.822	493.082
45.0	269.367	289.466	311.585	334.916	359.358	384.810	411.171	437.835	464.701	491.870
47.5	256.237	277.245	300.172	324.816	350.773	377.639	405.515	433.694	461.772	491.062
50.0	242.602	264.216	287.749	313.100	339.966	367.842	396.526	425.715	455.106	484.800
52.5	228.866	250.985	275.124	301.081	328.755	357.540	387.032	417.029	447.430	478.235
55.0	215.029	237.552	262.297	288.759	317.039	346.632	376.932	407.838	439.148	471.064
57.5	201.091	223.917	249.066	276.134	304.919	335.219	366.327	398.041	430.260	463.186
60.0	186.951	209.979	235.633	263.206	292.496	323.301	355.116	387.537	420.766	454.702
62.5	172.609	195.940	221.796	249.874	279.669	310.979	343.299	376.528	410.464	445.511
65.0	158.166	181.598	207.757	236.138	266.337	298.152	331.078	364.913	399.657	435.714
67.5	143.622	167.054	193.415	221.998	252.601	284.820	318.251	352.692	388.244	425.109
70.0	131.603	155.237	181.800	210.484	241.289	273.609	307.040	341.582	377.336	414.201
72.5	119.483	143.420	170.185	199.475	230.684	263.509	297.546	332.593	369.155	406.727
75.0	107.363	131.300	158.469	188.062	219.675	252.904	287.345	322.998	360.166	398.445
77.5	95.142	119.180	146.551	176.447	208.363	241.794	276.639	312.696	350.470	389.456
80.0	83.325	106.858	134.330	164.428	196.647	230.381	265.428	301.889	340.067	379.558
82.5	70.599	95.041	122.917	152.207	184.527	218.362	253.712	290.375	328.957	368.751
85.0	57.974	82.012	109.787	140.188	172.710	206.747	242.299	279.467	316.837	357.136
87.5	45.147	69.084	96.556	126.957	159.277	193.112	228.563	265.529	304.515	345.117
90.0	32.522	56.156	83.426	113.625	145.743	179.477	214.827	251.692	290.577	331.179
92.5	45.147	68.983	96.354	126.654	158.772	193.112	228.563	265.529	304.515	345.117
95.0	57.873	81.810	109.383	140.188	172.710	206.747	242.299	279.467	316.837	357.136
97.5	70.498	94.738	122.917	152.207	184.527	218.362	253.712	290.375	328.957	368.751
100.0	83.123	106.454	134.330	164.428	196.647	230.381	265.428	301.889	340.067	379.558
102.5	94.940	119.180	146.551	176.447	208.363	241.794	276.639	312.696	350.470	389.456
105.0	107.060	131.300	158.469	188.062	219.675	252.904	287.345	322.998	360.166	398.445
107.5	119.180	143.420	170.185	199.475	230.684	263.509	297.546	332.593	369.155	406.727
110.0	131.300	155.237	181.800	210.484	241.289	273.609	307.040	341.582	377.336	414.201
112.5	143.218	167.054	193.415	221.998	252.601	284.820	318.251	352.692	388.244	424.907

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CANDELA TABULATION - (Cont.)

115.0	157.661	181.598	207.757	236.138	266.337	298.152	331.078	364.913	399.657	435.714
117.5	172.104	195.940	221.796	249.874	279.669	310.979	343.299	376.528	410.464	445.511
120.0	186.345	209.979	235.633	263.206	292.496	323.301	355.116	387.537	420.766	454.702
122.5	200.485	223.917	249.066	276.134	304.919	335.219	366.327	398.041	430.260	463.186
125.0	215.029	237.552	262.297	288.759	317.039	346.632	376.932	407.838	439.148	471.064
127.5	228.866	250.985	275.124	301.081	328.755	357.540	387.032	417.029	447.430	478.235
130.0	242.602	264.216	287.749	313.100	339.966	367.842	396.526	425.715	455.106	484.800
132.5	256.237	277.245	300.172	324.816	350.773	377.639	405.515	433.694	461.772	491.062
135.0	269.367	289.466	311.585	334.916	359.358	384.810	411.171	437.835	464.701	491.870
137.5	277.548	297.041	318.655	341.178	364.711	389.557	414.908	440.966	466.822	493.082
140.0	285.426	304.515	325.321	347.036	369.862	393.698	417.938	442.885	468.034	493.385
142.5	293.304	311.787	331.684	352.288	374.508	397.132	420.463	444.198	469.650	492.476
145.0	300.980	318.756	337.643	357.439	378.447	400.970	422.180	444.703	467.630	490.759
147.5	308.050	325.523	343.198	362.186	381.881	402.384	423.291	444.602	466.216	488.032
150.0	315.322	331.987	348.753	366.529	385.618	404.101	423.695	443.794	463.994	484.396
152.5	322.897	338.249	353.803	370.266	387.436	405.111	423.594	442.178	461.065	479.851
155.0	330.371	344.107	358.651	373.599	389.557	405.616	422.584	439.855	457.227	474.498
157.5	337.542	349.359	362.388	375.417	389.153	403.091	417.029	431.674	446.218	460.661
160.0	337.542	347.642	359.358	371.175	382.992	395.516	408.040	420.362	433.492	446.319
162.5	337.643	346.430	356.227	366.731	377.033	387.638	398.647	409.555	420.463	431.573
165.0	337.441	345.117	352.894	361.984	370.973	379.962	388.951	398.344	407.737	416.928
167.5	337.340	343.804	350.167	357.035	364.610	372.185	379.659	387.032	394.607	402.384
170.0	337.037	342.188	347.440	352.591	357.944	364.105	370.165	376.124	382.083	387.840
172.5	336.835	340.673	344.713	348.652	352.490	356.328	360.368	364.913	369.357	373.700
175.0	336.330	338.956	341.582	344.309	346.935	349.561	352.187	354.712	357.237	359.661
177.5	335.926	337.340	338.653	339.966	341.279	342.592	343.905	345.218	346.531	347.743
180.0	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320

**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	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421
2.5	348.955	350.167	351.278	352.490	353.601	354.611	355.722	356.732	357.641	358.550
5.0	362.186	365.014	367.741	370.468	373.094	375.619	378.144	380.568	382.790	385.012
7.5	378.043	382.285	386.426	390.466	394.405	398.344	402.283	406.222	409.858	413.292
10.0	393.900	399.657	405.515	411.272	416.928	422.382	427.634	432.684	437.734	442.683
12.5	410.060	417.534	424.907	432.179	439.552	446.723	453.591	460.358	466.822	472.983
15.0	427.028	435.411	444.703	453.793	462.681	471.266	479.851	488.133	496.112	503.889
17.5	442.784	453.692	465.610	475.306	485.810	496.011	506.111	515.807	525.301	534.391
20.0	459.045	471.670	484.093	496.415	508.434	520.251	531.765	542.976	553.884	564.186
22.5	475.003	489.143	503.081	516.918	530.553	544.087	556.712	569.236	581.457	593.072
25.0	490.355	506.111	521.665	538.431	551.864	566.509	580.851	594.486	607.717	620.544
27.5	498.940	518.130	537.219	556.005	572.468	588.224	603.677	620.140	632.664	646.501
30.0	504.899	525.503	546.107	566.610	586.810	606.909	625.190	640.946	656.298	670.741
32.5	509.949	531.866	554.086	575.498	597.112	618.019	638.825	659.025	678.114	693.668
35.0	513.989	537.118	560.247	583.073	605.596	627.917	649.733	671.347	692.153	712.757
37.5	516.918	541.158	565.398	589.234	612.969	636.401	659.429	681.851	703.869	725.079
40.0	518.635	544.087	569.236	594.284	619.130	643.572	667.610	690.840	713.565	735.381
42.5	519.443	545.804	572.165	598.223	624.382	649.531	674.276	698.516	721.746	745.582
45.0	519.140	546.612	573.882	601.051	627.816	653.975	679.831	704.677	729.018	752.349
47.5	517.928	546.309	574.690	602.667	630.341	657.510	683.972	710.030	735.482	759.621
50.0	514.898	544.996	574.286	603.273	631.755	659.934	687.608	714.575	740.835	767.398
52.5	509.444	540.754	571.559	602.162	632.260	662.863	690.335	718.514	746.996	772.751
55.0	503.384	535.603	567.620	600.546	631.351	661.954	692.456	722.049	751.137	779.013
57.5	497.425	529.846	562.974	596.102	628.927	661.449	693.365	724.776	755.480	785.376
60.0	489.143	523.483	557.722	592.163	626.503	660.439	693.971	726.897	759.520	791.335

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CANDELA TABULATION - (Cont.)

62.5	480.962	516.312	552.268	587.719	623.473	658.924	694.072	728.917	763.358	796.991
65.0	472.074	508.434	545.400	582.568	619.837	656.904	693.769	730.735	766.994	802.647
67.5	462.378	499.849	538.128	576.811	615.595	654.379	693.163	732.048	770.226	807.495
70.0	451.975	490.557	530.149	570.347	610.545	651.046	691.951	732.755	772.751	811.939
72.5	444.905	483.689	523.584	564.085	604.889	646.905	691.446	732.553	774.569	815.575
75.0	437.431	477.326	518.231	559.641	601.657	644.582	688.113	731.846	775.175	818.100
77.5	429.149	469.852	511.666	553.985	597.213	641.350	686.396	730.937	775.478	819.615
80.0	419.958	461.469	503.990	547.218	591.355	636.603	682.457	728.311	774.064	819.413
82.5	409.757	451.975	495.102	539.037	584.184	630.240	677.003	723.766	770.529	816.888
85.0	398.647	441.269	485.002	529.543	575.397	622.261	669.731	717.201	764.873	812.040
87.5	387.032	430.058	474.195	519.342	565.903	613.373	661.550	709.727	758.308	805.980
90.0	373.296	416.524	460.762	506.111	552.975	600.748	649.228	697.708	746.693	794.567
92.5	387.032	430.058	474.195	519.342	565.903	613.373	661.550	709.727	758.308	805.980
95.0	398.647	441.269	485.002	529.543	575.397	622.261	669.731	717.201	764.873	812.040
97.5	409.757	451.975	495.102	539.037	584.184	630.240	677.003	723.766	770.529	816.888
100.0	419.958	461.469	503.990	547.016	591.355	636.603	682.457	728.311	774.064	819.413
102.5	429.149	469.852	511.666	553.985	597.213	641.350	686.093	730.937	775.478	819.615
105.0	437.431	477.326	518.231	559.641	601.657	644.481	688.113	731.846	775.175	818.100
107.5	444.804	483.689	523.584	564.085	604.889	646.905	691.446	732.452	774.569	815.575
110.0	451.975	490.557	530.149	570.347	610.545	651.046	691.951	732.755	772.751	811.939
112.5	462.378	499.849	538.128	576.407	615.595	654.379	693.163	732.048	770.226	807.495
115.0	472.074	508.434	545.400	582.568	619.837	656.904	693.769	730.735	766.994	802.445
117.5	480.962	516.312	551.864	587.719	623.473	658.924	694.072	728.917	763.358	796.991
120.0	489.143	523.483	557.722	592.163	626.503	660.439	693.971	726.897	759.520	791.335
122.5	497.425	529.846	562.974	596.102	628.927	661.449	693.365	724.776	755.480	785.376
125.0	503.384	535.603	567.620	600.546	630.846	661.954	692.456	722.049	750.935	779.013
127.5	509.444	540.754	571.559	602.162	632.058	662.863	690.335	718.514	746.794	772.751
130.0	514.898	544.996	574.286	603.273	631.755	659.934	687.608	714.575	740.532	767.398
132.5	517.928	546.309	574.690	602.667	630.341	657.510	683.972	710.030	735.179	759.621
135.0	519.140	546.612	573.882	601.051	627.614	653.975	679.831	704.677	729.018	752.349
137.5	519.443	545.804	572.165	598.223	624.079	649.531	674.276	698.516	721.746	745.582
140.0	518.635	544.087	569.236	594.284	619.130	643.572	667.610	690.840	713.565	735.381
142.5	516.918	541.158	565.398	589.234	612.969	636.401	659.429	681.346	703.869	724.877
145.0	513.989	537.118	560.247	583.073	605.596	627.917	649.733	671.347	692.153	712.757
147.5	509.949	531.866	553.783	575.498	597.112	618.019	638.825	659.025	678.114	693.668
150.0	504.899	525.503	546.107	566.610	586.810	606.909	625.190	640.946	656.298	670.741
152.5	498.940	518.130	537.219	555.904	572.468	588.224	603.677	620.140	632.664	646.299
155.0	490.355	506.111	521.665	538.431	551.864	566.509	580.851	594.486	607.717	620.544
157.5	475.003	489.143	503.081	516.918	530.553	544.087	556.712	569.236	581.255	593.072
160.0	459.045	471.670	484.093	496.415	508.434	520.251	531.765	542.976	553.884	564.186
162.5	442.784	453.692	465.610	475.306	485.810	496.011	506.010	515.807	525.301	534.391
165.0	427.028	435.411	444.703	453.793	462.681	471.266	479.851	488.133	496.112	503.889
167.5	410.060	417.534	424.907	432.078	439.552	446.723	453.591	460.358	466.822	472.983
170.0	393.900	399.657	405.515	411.272	416.928	422.281	427.634	432.684	437.734	442.683
172.5	378.043	382.285	386.426	390.466	394.405	398.344	402.283	406.121	409.858	413.292
175.0	362.186	365.014	367.741	370.468	373.094	375.619	378.144	380.568	382.790	385.012
177.5	348.955	350.167	351.278	352.490	353.601	354.611	355.722	356.732	357.641	358.550
180.0	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320

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	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421	335.421
2.5	359.459	360.267	361.075	361.782	362.489	363.196	363.701	364.307	365.822	365.923
5.0	387.133	389.052	390.971	392.688	394.405	395.920	397.334	398.546	399.657	400.667
7.5	416.726	419.857	422.887	425.715	428.442	430.866	433.290	435.209	437.027	438.744

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CANDELA TABULATION - (Cont.)

10.0	447.430	451.874	456.217	460.156	463.893	467.428	470.559	473.488	476.114	478.437
12.5	479.043	484.901	490.456	495.607	500.556	505.101	509.343	513.181	516.615	519.746
15.0	511.262	518.332	525.099	531.462	537.522	543.178	548.430	553.177	557.419	561.257
17.5	543.178	551.561	559.540	567.014	574.185	580.548	586.709	592.264	597.415	601.960
20.0	574.185	583.780	592.870	601.354	609.333	616.706	623.675	630.038	635.896	641.047
22.5	604.081	614.787	624.685	634.280	643.168	651.349	659.025	666.196	672.761	678.619
25.0	632.664	644.077	655.086	665.489	675.387	684.376	692.860	700.637	707.909	714.373
27.5	659.530	671.953	683.770	694.981	705.687	715.585	724.776	732.957	740.734	747.804
30.0	684.679	699.122	710.636	722.554	733.866	744.471	753.864	762.550	770.630	778.104
32.5	708.515	722.453	735.785	747.905	759.621	770.529	780.427	789.416	797.799	805.475
35.0	730.230	744.572	758.308	770.933	782.649	793.860	804.263	813.555	822.241	830.220
37.5	746.693	764.570	778.407	791.638	803.758	815.171	825.978	835.674	844.562	852.642
40.0	756.389	776.791	796.082	810.525	823.049	834.765	845.875	855.874	864.964	873.246
42.5	766.085	787.295	807.394	826.584	841.027	852.945	864.156	874.559	883.952	892.537
45.0	775.074	796.890	817.797	837.593	856.480	870.014	881.629	893.143	902.233	911.121
47.5	783.356	805.879	827.493	848.097	867.691	886.174	898.799	910.111	920.413	929.604
50.0	791.032	814.666	837.290	858.803	879.306	898.597	916.070	927.887	938.593	948.289
52.5	798.607	823.453	847.289	870.014	891.426	911.626	930.614	946.168	957.480	967.378
55.0	806.283	832.543	857.692	881.629	904.152	925.463	945.259	963.439	976.468	986.871
57.5	814.161	841.936	868.398	893.648	917.484	939.805	961.217	979.296	995.759	1006.667
60.0	822.039	851.430	879.407	906.071	931.220	954.652	976.064	995.860	1013.535	1027.170
62.5	829.513	860.823	890.517	918.797	945.259	969.802	992.527	1013.232	1031.816	1048.582
65.0	836.785	869.711	901.526	931.523	959.399	985.457	1009.293	1031.008	1050.905	1068.782
67.5	843.653	878.599	912.131	943.744	973.640	1000.910	1025.958	1049.087	1070.095	1089.285
70.0	850.117	888.295	922.130	955.561	986.770	1015.656	1042.219	1066.459	1088.780	1108.475
72.5	855.773	894.557	931.422	966.368	998.890	1029.190	1057.066	1082.619	1105.546	1125.948
75.0	860.419	900.819	939.401	975.660	1009.596	1041.310	1070.499	1096.658	1120.292	1141.300
77.5	863.348	905.869	945.764	983.538	1018.888	1051.612	1081.508	1108.677	1132.917	1153.824
80.0	864.055	907.384	948.996	988.487	1025.756	1059.692	1090.497	1119.383	1142.815	1163.318
82.5	862.540	906.879	949.400	989.901	1028.079	1063.429	1095.850	1124.837	1149.683	1170.489
85.0	858.601	903.748	947.380	988.588	1027.574	1063.732	1096.759	1126.655	1152.713	1174.327
87.5	853.450	899.405	943.845	984.144	1023.938	1060.702	1094.537	1124.938	1151.602	1174.125
90.0	842.542	888.901	933.947	976.367	1016.767	1054.137	1088.578	1119.383	1146.855	1170.388
92.5	853.450	899.405	943.845	984.144	1023.938	1060.702	1094.537	1124.938	1151.602	1174.125
95.0	858.601	903.748	947.279	988.588	1027.574	1063.732	1096.759	1126.655	1152.713	1174.327
97.5	862.540	906.879	949.400	989.901	1028.079	1063.429	1095.850	1124.837	1149.683	1170.489
100.0	864.055	907.384	948.996	988.487	1025.756	1059.692	1090.497	1119.383	1142.815	1163.318
102.5	863.348	905.667	945.764	983.538	1018.888	1051.511	1081.508	1108.677	1132.917	1153.824
105.0	860.318	900.819	939.401	975.660	1009.596	1041.310	1070.499	1096.658	1120.292	1141.300
107.5	855.773	894.557	931.422	966.368	998.890	1029.190	1057.066	1082.619	1105.546	1125.948
110.0	850.117	888.295	922.130	955.561	986.770	1015.656	1042.219	1066.459	1088.780	1108.475
112.5	843.653	878.599	912.131	943.744	973.640	1000.910	1025.958	1049.087	1070.095	1089.184
115.0	836.785	869.711	901.526	931.523	959.399	985.457	1009.293	1031.008	1050.905	1068.782
117.5	829.513	860.823	890.517	918.797	945.259	969.802	992.527	1013.131	1031.816	1048.481
120.0	822.039	851.430	879.407	906.071	931.220	954.652	976.064	995.860	1013.535	1027.170
122.5	814.161	841.936	868.398	893.648	917.484	939.805	961.217	979.296	995.759	1006.667
125.0	806.283	832.543	857.692	881.629	904.152	925.463	945.259	963.439	976.468	986.871
127.5	798.607	823.453	847.289	870.014	891.426	911.626	930.614	946.168	957.480	967.378
130.0	791.032	814.666	837.290	858.803	879.306	898.597	916.070	927.887	938.593	948.289
132.5	783.356	805.879	827.493	848.097	867.691	886.174	898.799	910.111	920.413	929.604
135.0	775.074	796.890	817.797	837.593	856.480	870.014	881.629	893.143	902.233	911.121
137.5	766.085	787.295	807.394	826.584	841.027	852.945	863.954	874.559	883.952	892.537
140.0	756.389	776.791	796.082	810.525	823.049	834.765	845.875	855.874	864.964	873.246
142.5	746.693	764.368	778.407	791.638	803.758	815.171	825.978	835.674	844.562	852.642
145.0	730.230	744.572	758.308	770.933	782.649	793.860	804.263	813.555	822.241	830.220
147.5	708.313	722.453	735.785	747.905	759.520	770.529	780.427	789.416	797.799	805.475

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CANDELA TABULATION - (Cont.)

150.0	684.679	699.122	710.636	722.352	733.866	744.471	753.864	762.550	770.630	778.104
152.5	659.530	671.953	683.770	694.981	705.485	715.585	724.574	732.957	740.734	747.804
155.0	632.664	644.077	655.086	665.489	675.387	684.376	692.860	700.637	707.909	714.373
157.5	604.081	614.686	624.685	634.280	642.966	651.349	659.025	666.196	672.761	678.619
160.0	574.185	583.780	592.870	601.354	609.333	616.706	623.675	630.038	635.896	641.047
162.5	543.178	551.561	559.540	567.014	573.983	580.548	586.709	592.264	597.415	601.960
165.0	511.262	518.332	525.099	531.462	537.522	543.178	548.430	553.177	557.419	561.257
167.5	479.043	484.901	490.456	495.607	500.556	505.101	509.343	513.181	516.615	519.746
170.0	447.430	451.874	456.217	460.156	463.893	467.428	470.559	473.488	476.114	478.437
172.5	416.726	419.857	422.887	425.715	428.442	430.866	433.189	435.209	437.027	438.744
175.0	387.133	389.052	390.971	392.688	394.405	395.920	397.334	398.546	399.657	400.667
177.5	359.459	360.267	361.075	361.782	362.489	363.196	363.701	364.307	365.822	365.923
180.0	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320	335.320

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	335.421	335.421	335.421	335.421	335.421
2.5	366.024	366.125	366.226	366.327	366.428
5.0	402.687	402.990	403.192	403.495	403.697
7.5	440.158	442.380	442.784	443.188	443.592
10.0	480.457	483.588	484.194	484.800	485.406
12.5	522.372	524.695	527.422	528.331	529.139
15.0	564.691	567.620	571.054	572.165	573.377
17.5	606.000	609.434	613.575	615.090	616.504
20.0	645.693	649.733	654.379	656.197	657.914
22.5	683.871	688.517	693.870	695.991	698.112
25.0	720.231	725.382	729.826	733.967	736.492
27.5	754.066	759.621	764.671	768.913	771.842
30.0	784.770	790.628	795.880	800.627	803.859
32.5	812.444	818.706	824.160	829.311	832.846
35.0	837.492	843.956	849.713	855.066	858.904
37.5	860.318	866.782	872.640	878.195	882.134
40.0	880.821	887.588	893.648	899.304	903.344
42.5	900.314	907.283	913.444	919.201	923.241
45.0	919.100	926.271	932.432	938.189	942.229
47.5	937.785	944.956	951.218	956.874	960.712
50.0	956.773	964.045	970.206	975.761	979.296
52.5	976.064	983.538	989.699	995.254	998.486
55.0	995.860	1003.435	1009.697	1015.151	1018.080
57.5	1016.161	1024.140	1030.503	1035.957	1038.583
60.0	1037.371	1045.754	1052.521	1058.278	1060.500
62.5	1059.692	1068.782	1075.953	1081.003	1083.932
65.0	1082.922	1092.719	1100.193	1105.344	1108.172
67.5	1105.849	1116.252	1124.130	1129.281	1132.008
70.0	1125.948	1138.472	1146.350	1151.602	1154.228
72.5	1144.633	1158.369	1166.247	1171.499	1173.923
75.0	1159.076	1173.923	1183.518	1188.467	1190.588
77.5	1171.297	1186.245	1197.355	1201.900	1203.819
80.0	1180.084	1194.830	1205.536	1211.394	1213.717
82.5	1187.255	1198.971	1209.475	1217.252	1219.575
85.0	1190.891	1202.607	1209.172	1217.959	1221.292
87.5	1191.901	1204.829	1212.202	1212.000	1219.171
90.0	1189.477	1204.021	1214.020	1219.676	1216.545
92.5	1191.901	1204.829	1212.202	1212.000	1219.171
95.0	1190.891	1202.607	1209.172	1217.959	1221.292

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CANDELA TABULATION - (Cont.)

97.5	1187.255	1198.971	1209.475	1217.252	1219.575
100.0	1180.084	1194.830	1205.536	1211.394	1213.717
102.5	1171.297	1186.245	1197.355	1201.900	1203.819
105.0	1159.076	1173.923	1183.518	1188.467	1190.588
107.5	1144.633	1158.369	1166.247	1171.499	1173.923
110.0	1125.948	1138.472	1146.350	1151.602	1154.228
112.5	1105.849	1116.252	1124.130	1129.281	1132.008
115.0	1082.922	1092.719	1100.193	1105.344	1108.172
117.5	1059.692	1068.782	1075.953	1081.003	1083.932
120.0	1037.371	1045.754	1052.521	1058.278	1060.500
122.5	1016.161	1024.140	1030.503	1035.957	1038.583
125.0	995.860	1003.435	1009.697	1015.151	1018.080
127.5	976.064	983.538	989.699	995.254	998.486
130.0	956.773	964.045	970.206	975.761	979.296
132.5	937.785	944.956	951.218	956.874	960.712
135.0	919.100	926.170	932.432	938.189	942.229
137.5	900.314	907.283	913.444	919.201	923.241
140.0	880.821	887.588	893.648	899.304	903.344
142.5	860.116	866.782	872.640	878.195	882.134
145.0	837.492	843.956	849.713	855.066	858.904
147.5	812.444	818.706	824.160	829.311	832.846
150.0	784.770	790.628	795.880	800.627	803.859
152.5	754.066	759.621	764.469	768.913	771.842
155.0	720.231	725.382	729.826	733.967	736.492
157.5	683.871	688.517	693.870	695.991	698.112
160.0	645.693	649.733	654.379	656.197	657.914
162.5	606.000	609.434	613.575	615.090	616.504
165.0	564.691	567.620	571.054	572.165	573.377
167.5	522.372	524.695	527.422	528.331	529.139
170.0	480.457	483.588	484.194	484.800	485.406
172.5	440.158	442.380	442.784	443.188	443.592
175.0	402.687	402.990	403.192	403.495	403.697
177.5	366.024	366.125	366.226	366.327	366.428
180.0	335.320	335.320	335.320	335.320	335.320

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	134.98	N.A.	2.90
0-30	313.08	N.A.	6.80
0-40	561.41	N.A.	12.20
0-60	1207.45	N.A.	26.20
0-80	1944.23	N.A.	42.10
0-90	2308.6	N.A.	50.00
10-90	2275.99	N.A.	49.30
20-40	426.43	N.A.	9.20
20-50	731.11	N.A.	15.80
40-70	1009.33	N.A.	21.90
60-80	736.77	N.A.	16.00
70-80	373.49	N.A.	8.10
80-90	364.37	N.A.	7.90
90-110	737.86	N.A.	16.00
90-120	1101.15	N.A.	23.80
90-130	1442.51	N.A.	31.20
90-150	1995.52	N.A.	43.20
90-180	2308.6	N.A.	50.00
110-180	1570.73	N.A.	34.00
0-180	4617.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	32.60
10-20	102.37
20-30	178.10
30-40	248.33
40-50	304.68
50-60	341.37
60-70	363.28
70-80	373.49
80-90	364.37
90-100	364.37
100-110	373.49
110-120	363.28
120-130	341.37
130-140	304.68
140-150	248.33
150-160	178.10
160-170	102.37
170-180	32.60

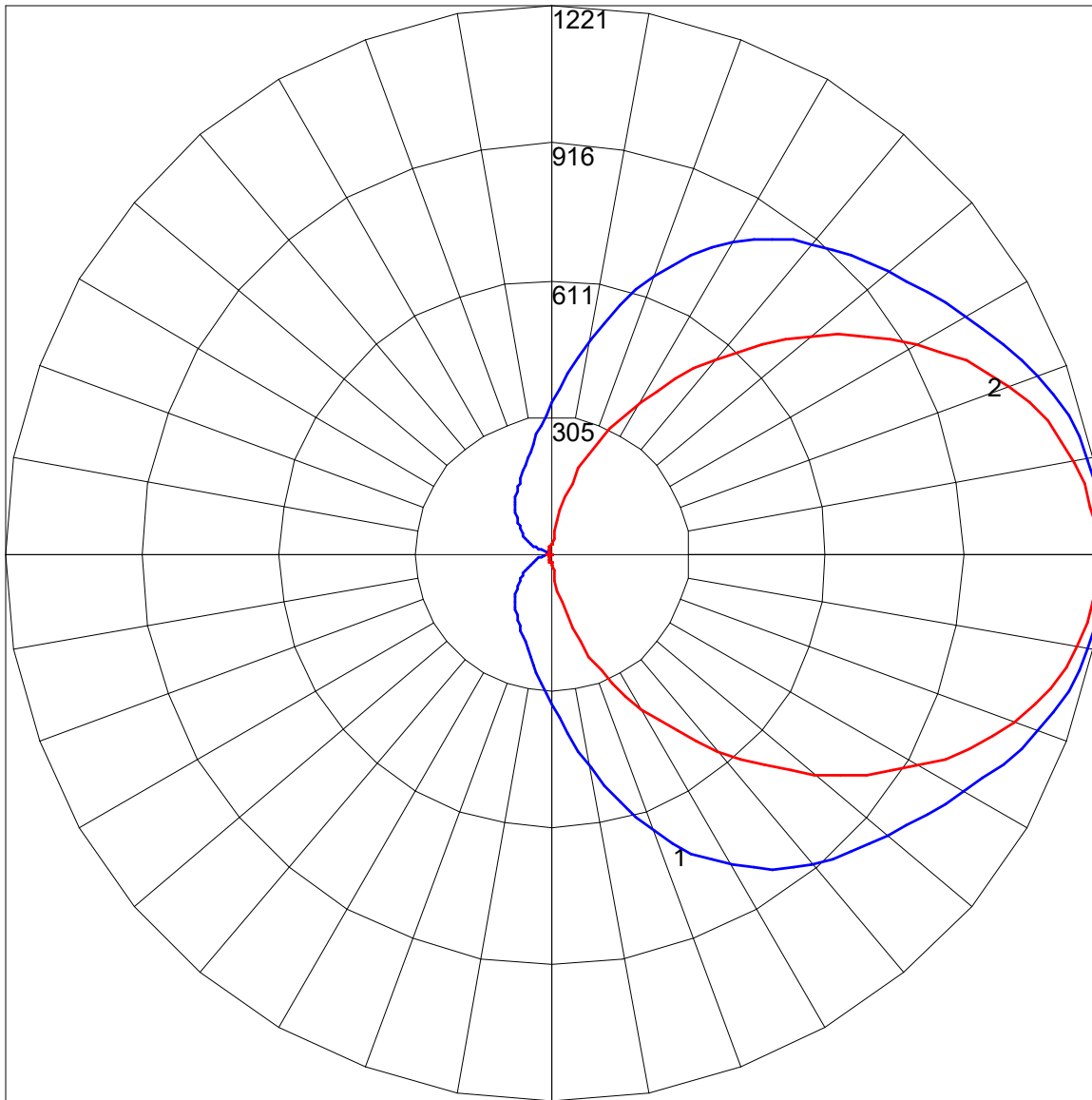
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	94	88	83	78	86	81	76	72	67	64	60	55	52	50	43	42	40	34
2	84	75	67	61	77	68	62	56	57	52	47	46	42	39	36	33	31	26
3	76	64	56	49	69	59	51	45	49	43	38	40	35	31	31	27	24	20
4	69	56	47	40	63	52	43	37	43	36	31	35	30	26	27	23	20	16
5	63	50	40	34	57	46	37	31	38	31	26	31	26	22	24	20	17	13
6	58	44	35	29	52	41	32	27	34	27	22	27	22	18	21	17	14	11
7	53	40	31	25	48	36	29	23	30	24	19	25	20	16	19	15	13	10
8	49	36	27	22	45	33	25	20	27	21	17	22	18	14	18	14	11	8
9	46	32	24	19	42	30	23	18	25	19	15	20	16	12	16	12	10	7
10	43	30	22	17	39	27	20	16	23	17	13	19	14	11	15	11	9	7

POLAR GRAPH



Maximum Candela = 1221.292 Located At Horizontal Angle = 0, Vertical Angle = 85
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (85) (Through Max. Cd.)