



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BOLT-SM-LED35-MO-SAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] BOLT-SM-LED35-MLO-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	3337
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	26
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	8877	7125	3727
55	9992	7752	3453
65	11720	8610	3149
75	14117	9909	2901
85	17067	12029	2359

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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	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433
2.5	264.844	264.771	264.698	264.552	264.479	264.406	264.333	263.165	262.800	262.362
5.0	291.781	291.562	291.343	291.124	290.978	289.445	288.715	287.839	286.890	285.868
7.5	320.616	320.251	319.886	319.521	317.915	316.820	315.579	314.192	312.659	310.980
10.0	350.838	350.327	349.816	349.305	346.969	345.436	343.684	341.713	339.523	337.114
12.5	382.447	381.717	380.987	378.870	377.118	375.074	372.738	370.183	367.263	364.197
15.0	414.421	413.472	412.523	409.895	407.632	405.077	402.157	398.945	395.368	391.499
17.5	445.592	444.424	443.183	440.117	437.416	434.350	430.919	427.050	422.889	418.363
20.0	475.522	474.062	472.602	469.025	465.959	462.455	458.513	454.133	449.388	444.205
22.5	504.576	502.824	501.072	496.984	493.480	489.465	485.012	480.121	474.792	469.025
25.0	532.316	530.272	527.060	523.629	519.614	515.161	510.270	504.868	499.028	492.677
27.5	557.866	555.530	552.026	548.230	543.850	539.032	533.703	527.863	521.585	514.869
30.0	581.007	578.379	574.656	570.568	565.969	560.859	555.165	549.033	542.390	535.236
32.5	601.958	599.111	595.096	590.862	586.044	580.642	574.802	568.378	561.516	553.997
35.0	620.792	617.726	613.492	609.039	604.075	598.527	592.468	585.825	578.817	570.933
37.5	637.582	634.370	630.063	625.464	620.354	614.660	608.382	601.593	594.293	586.190
40.0	652.912	649.700	645.247	640.575	635.319	629.479	623.055	616.047	608.382	600.133
42.5	667.293	664.008	659.555	654.810	649.481	643.495	636.925	629.771	621.668	613.200
45.0	681.017	677.805	673.279	668.461	663.059	657.000	650.211	643.422	634.589	625.756
47.5	694.376	691.164	686.784	681.893	676.418	670.140	663.132	655.467	646.999	637.509
50.0	707.808	704.742	700.289	695.398	689.777	683.280	675.980	667.950	659.190	646.269
52.5	721.678	718.758	714.232	709.195	703.355	696.639	689.047	680.652	669.191	655.248
55.0	735.840	733.139	728.540	723.357	717.298	710.217	702.260	692.478	679.046	664.592
57.5	750.659	748.104	743.432	738.176	731.752	724.233	715.765	703.428	689.996	674.301
60.0	766.500	764.310	759.565	754.090	747.228	738.906	728.394	715.035	700.362	684.448
62.5	783.436	780.735	776.574	770.953	763.653	754.966	741.899	727.372	711.823	694.887
65.0	800.956	798.255	793.875	787.962	780.370	769.639	755.915	740.658	723.868	705.837
67.5	818.184	815.483	810.957	804.606	796.503	783.947	769.712	753.725	736.132	716.933
70.0	834.244	831.397	826.725	820.228	810.665	797.598	782.779	766.135	747.739	727.518
72.5	848.479	845.486	840.668	834.098	823.732	809.789	794.678	777.450	758.178	736.935
75.0	860.524	857.531	852.640	844.756	833.514	820.228	804.752	787.232	767.376	745.257
77.5	870.087	867.167	862.349	853.224	841.763	828.696	813.147	795.116	774.749	751.973
80.0	877.241	874.248	868.481	859.356	847.749	834.974	819.644	802.270	780.662	757.229
82.5	881.475	878.847	871.693	862.349	852.932	839.865	823.951	805.409	784.093	760.295
85.0	882.716	879.650	871.839	865.561	855.706	842.566	826.214	807.015	785.261	761.171
87.5	881.183	875.562	874.248	867.605	857.020	843.150	826.141	806.212	783.874	759.711
90.0	879.285	880.745	875.635	867.605	855.779	840.887	823.367	802.708	779.859	755.477
92.5	881.183	875.562	874.248	867.605	857.020	843.150	826.141	806.212	783.874	759.711
95.0	882.716	879.650	871.839	865.561	855.706	842.566	826.214	807.015	785.261	761.171
97.5	881.475	878.847	871.693	862.349	852.932	839.865	823.951	805.409	784.093	760.295
100.0	877.241	874.248	868.481	859.356	847.749	834.974	819.644	802.270	780.662	757.229
102.5	870.087	867.167	862.349	853.224	841.763	828.696	813.147	795.116	774.749	752.046
105.0	860.524	857.531	852.640	844.756	833.514	820.228	804.752	787.232	767.376	745.257
107.5	848.479	845.486	840.668	834.098	823.732	809.789	794.678	777.450	758.178	736.935
110.0	834.244	831.397	826.725	820.228	810.665	797.598	782.779	766.135	747.739	727.518
112.5	818.184	815.483	810.957	804.606	796.503	784.020	769.712	753.725	736.132	716.933
115.0	800.956	798.255	793.875	787.962	780.370	769.639	755.915	740.658	723.868	705.837
117.5	783.436	780.735	776.574	770.953	763.653	755.039	741.899	727.372	711.823	694.887
120.0	766.500	764.310	759.565	754.090	747.228	738.906	728.394	715.035	700.362	684.448
122.5	750.659	748.104	743.432	738.176	731.752	724.233	715.765	703.428	689.996	674.301
125.0	735.840	733.139	728.540	723.357	717.298	710.217	702.260	692.478	679.046	664.592
127.5	721.678	718.758	714.232	709.195	703.355	696.639	689.047	680.652	669.191	655.248
130.0	707.808	704.742	700.289	695.398	689.777	683.280	675.980	667.950	659.190	646.269
132.5	694.376	691.164	686.784	681.893	676.418	670.140	663.132	655.467	646.999	637.509

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CANDELA TABULATION - (Cont.)

135.0	681.017	677.805	673.279	668.534	663.059	657.000	650.211	643.422	634.589	625.756
137.5	667.293	664.008	659.555	654.810	649.481	643.495	636.925	629.771	621.814	613.200
140.0	652.912	649.700	645.247	640.575	635.319	629.479	623.055	616.047	608.382	600.133
142.5	637.582	634.370	630.063	625.464	620.500	614.660	608.382	601.593	594.293	586.190
145.0	620.792	617.726	613.492	609.039	604.075	598.527	592.468	585.825	578.817	570.933
147.5	601.958	599.111	595.096	590.862	586.044	580.642	574.802	568.378	561.516	553.997
150.0	581.007	578.379	574.656	570.568	565.969	560.859	555.165	549.033	542.390	535.309
152.5	557.866	555.530	552.172	548.230	543.850	539.032	533.703	527.863	521.731	514.869
155.0	532.316	530.272	527.060	523.629	519.614	515.161	510.270	504.868	499.028	492.677
157.5	504.576	502.824	501.072	496.984	493.480	489.465	485.012	480.121	474.792	469.025
160.0	475.522	474.062	472.602	469.025	465.959	462.455	458.513	454.133	449.388	444.205
162.5	445.592	444.424	443.183	440.117	437.416	434.350	430.919	427.050	422.889	418.363
165.0	414.421	413.472	412.523	409.895	407.632	405.077	402.157	398.945	395.368	391.499
167.5	382.447	381.717	380.987	378.870	377.118	375.074	372.738	370.183	367.263	364.197
170.0	350.838	350.327	349.816	349.305	346.969	345.436	343.684	341.713	339.523	337.114
172.5	320.616	320.251	319.886	319.521	317.915	316.820	315.579	314.192	312.732	310.980
175.0	291.781	291.562	291.343	291.124	290.978	289.445	288.715	287.839	286.890	285.868
177.5	264.844	264.771	264.698	264.552	264.479	264.406	264.333	263.165	262.800	262.362
180.0	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360

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	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433
2.5	261.924	261.413	260.829	260.245	259.661	259.004	258.347	257.617	256.887	256.157
5.0	284.773	283.532	282.218	280.831	279.371	277.838	276.232	274.626	272.874	271.049
7.5	309.155	307.184	305.067	302.877	300.541	298.059	295.504	292.803	290.029	287.109
10.0	334.559	331.785	328.865	325.726	322.441	319.010	315.360	311.710	307.987	304.045
12.5	360.766	357.116	353.320	349.232	344.925	340.472	335.946	331.201	326.310	321.273
15.0	387.338	382.885	378.140	373.103	367.920	362.445	356.824	350.911	344.852	338.501
17.5	413.545	408.362	402.814	396.901	390.769	384.272	377.556	370.548	363.394	356.094
20.0	438.730	432.817	426.539	419.823	412.815	405.515	397.923	389.966	381.717	373.249
22.5	462.747	456.250	449.169	441.796	433.985	425.882	417.268	408.508	399.383	390.258
25.0	485.961	478.588	470.850	462.747	454.206	445.300	435.883	426.247	416.319	405.953
27.5	507.350	499.612	491.290	482.603	473.478	463.696	453.622	444.278	432.233	421.064
30.0	527.352	518.884	510.270	501.729	491.217	480.997	470.485	459.097	447.417	433.985
32.5	545.675	536.988	527.790	517.935	507.642	496.984	485.596	471.799	457.126	441.869
35.0	562.465	553.559	544.069	533.630	522.899	510.051	495.232	480.194	464.572	448.804
37.5	577.576	568.597	558.596	547.938	534.798	518.665	503.189	486.837	471.069	454.425
40.0	591.373	581.956	571.152	556.990	541.879	526.330	510.197	493.480	476.471	459.170
42.5	604.075	593.271	579.109	564.363	548.814	533.630	515.964	498.882	480.997	462.966
45.0	615.536	601.301	586.555	571.079	555.092	538.302	521.074	503.116	484.866	465.959
47.5	623.785	609.185	593.782	577.576	560.786	543.412	525.381	506.839	487.713	468.222
50.0	632.034	616.850	600.863	584.146	566.407	548.741	529.104	509.905	490.049	469.682
52.5	640.429	624.661	607.944	590.351	571.955	552.756	533.338	512.533	491.728	471.434
55.0	649.116	632.545	615.171	596.629	577.284	557.282	536.404	514.942	493.115	470.558
57.5	658.022	640.648	622.325	602.980	582.686	561.516	539.689	516.767	493.407	469.828
60.0	667.293	649.043	629.625	609.331	588.015	565.385	542.025	518.081	493.480	468.733
62.5	676.856	657.511	637.071	615.463	592.614	568.889	544.288	519.103	493.334	467.273
65.0	686.565	666.125	644.225	621.230	597.140	572.101	546.259	519.760	492.823	465.448
67.5	696.347	674.155	651.014	626.705	601.374	575.094	547.792	520.052	491.801	463.258
70.0	705.472	682.039	657.438	632.691	605.243	577.576	548.960	519.760	490.268	460.484
72.5	714.013	689.339	663.351	636.414	608.455	579.474	549.617	518.738	489.246	456.980
75.0	721.313	695.690	668.534	640.137	610.791	580.642	549.398	517.862	486.764	455.666
77.5	727.445	700.946	672.549	642.838	612.689	581.956	550.274	517.862	485.742	453.987
80.0	731.679	704.450	675.469	645.101	614.149	582.540	549.909	516.621	483.625	451.213

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CANDELA TABULATION - (Cont.)

82.5	734.380	706.640	676.856	645.612	613.930	581.664	548.230	513.993	480.194	447.271
85.0	734.818	706.932	676.345	644.298	611.886	579.182	545.018	509.832	475.376	442.015
87.5	732.847	705.034	674.885	641.962	609.039	575.897	541.149	505.014	469.901	436.248
90.0	728.394	700.654	668.680	635.246	602.104	568.816	533.630	496.911	461.579	427.780
92.5	732.847	705.034	674.885	641.962	609.039	575.897	541.149	505.014	469.901	436.248
95.0	734.818	706.932	676.418	644.298	611.886	579.182	545.018	509.832	475.376	442.015
97.5	734.380	706.640	676.856	645.612	613.930	581.664	548.230	513.993	480.194	447.271
100.0	731.679	704.450	675.396	645.101	614.149	582.540	549.909	516.621	483.625	451.213
102.5	727.445	700.946	672.549	642.984	612.689	581.956	550.274	517.862	486.034	453.987
105.0	721.313	695.690	668.534	640.137	610.864	580.642	549.398	517.862	486.764	455.739
107.5	714.013	689.339	663.351	636.414	608.455	579.474	549.617	518.811	489.246	456.980
110.0	705.472	682.039	657.438	632.691	605.243	577.576	548.960	519.760	490.268	460.484
112.5	696.347	674.155	651.014	626.705	601.374	575.094	547.792	520.052	491.801	463.258
115.0	686.565	666.125	644.225	621.230	597.140	572.247	546.259	519.760	492.823	465.448
117.5	676.856	657.511	637.071	615.463	592.614	568.889	544.288	519.103	493.334	467.273
120.0	667.293	649.043	629.625	609.331	588.015	565.385	542.025	518.081	493.480	468.733
122.5	658.022	640.648	622.325	602.980	582.686	561.516	539.689	516.767	493.407	469.828
125.0	649.116	632.545	615.171	596.629	577.284	557.282	536.550	514.942	493.115	470.558
127.5	640.429	624.661	607.944	590.351	571.955	552.756	533.484	512.533	491.728	471.434
130.0	632.034	616.850	600.863	584.146	566.407	548.741	529.250	509.905	490.049	469.682
132.5	623.785	609.185	593.782	577.576	560.786	543.412	525.600	506.839	487.713	468.222
135.0	615.536	601.301	586.555	571.079	555.092	538.302	521.074	503.116	484.866	465.959
137.5	604.075	593.271	579.109	564.363	548.814	533.630	515.964	498.882	480.997	462.966
140.0	591.373	581.956	571.152	556.990	541.879	526.330	510.197	493.480	476.471	459.170
142.5	577.576	568.597	558.596	548.157	534.798	518.884	503.189	487.202	471.069	454.425
145.0	562.465	553.559	544.069	533.630	522.899	510.051	495.232	480.194	464.572	448.804
147.5	545.821	536.988	527.790	517.935	507.715	496.984	485.596	471.799	457.126	441.869
150.0	527.352	518.957	510.270	501.729	491.217	480.997	470.485	459.097	447.417	433.985
152.5	507.496	499.612	491.290	482.603	473.478	463.842	453.622	444.278	432.233	421.064
155.0	485.961	478.588	470.850	462.747	454.206	445.300	435.883	426.247	416.319	405.953
157.5	462.820	456.250	449.169	441.869	433.985	425.882	417.341	408.508	399.383	390.258
160.0	438.730	432.817	426.539	419.823	412.815	405.515	397.923	389.966	381.717	373.322
162.5	413.691	408.362	402.814	396.901	390.769	384.272	377.556	370.548	363.467	356.094
165.0	387.338	382.885	378.140	373.103	367.920	362.445	356.824	350.911	344.852	338.501
167.5	360.766	357.116	353.320	349.232	344.925	340.472	335.946	331.201	326.310	321.273
170.0	334.559	331.785	328.865	325.726	322.441	319.010	315.360	311.710	307.987	304.118
172.5	309.155	307.184	305.067	302.877	300.541	298.059	295.504	292.876	290.029	287.109
175.0	284.773	283.532	282.218	280.831	279.371	277.838	276.232	274.626	272.874	271.049
177.5	261.924	261.413	260.829	260.245	259.661	259.004	258.347	257.617	256.887	256.157
180.0	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360

Vert. Angles	Horizontal Angles									
	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0	72.5
0.0	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433
2.5	255.354	254.551	253.748	252.872	251.996	251.120	250.171	249.295	248.346	247.397
5.0	269.224	267.253	265.282	263.311	261.267	259.442	257.690	255.865	254.040	252.215
7.5	284.262	281.415	278.495	275.502	272.363	269.297	266.085	262.873	259.588	256.741
10.0	300.176	296.088	291.854	287.547	283.386	279.079	274.918	270.684	266.377	261.997
12.5	316.090	310.688	305.505	300.176	294.701	289.226	283.605	278.130	272.801	267.472
15.0	332.223	325.872	319.302	312.659	306.600	299.300	292.657	285.868	279.079	272.655
17.5	348.575	340.837	333.756	325.215	317.331	309.301	301.344	293.533	285.722	277.765
20.0	364.562	355.802	346.823	337.698	328.500	319.448	310.250	300.906	292.000	283.021
22.5	380.330	370.329	360.182	349.962	339.596	329.157	318.791	308.425	297.986	288.058
25.0	395.295	385.513	373.249	361.861	350.400	338.793	326.164	313.754	301.563	289.445
27.5	409.603	397.631	384.126	370.256	356.313	342.443	328.719	314.995	301.782	288.642

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CANDELA TABULATION - (Cont.)

30.0	419.458	404.931	390.112	375.293	360.401	345.436	330.544	315.944	301.490	287.547
32.5	426.466	410.917	395.222	379.454	363.686	347.772	331.931	316.309	300.833	285.868
35.0	432.525	416.027	399.456	382.812	366.095	349.451	332.734	316.017	299.811	284.408
37.5	437.489	420.261	402.814	385.294	367.774	350.254	333.756	315.287	298.132	281.415
40.0	441.504	423.546	405.369	387.046	368.723	350.400	332.150	314.046	296.015	278.568
42.5	444.643	426.028	407.121	387.995	368.869	349.816	330.909	312.294	293.533	275.283
45.0	446.687	427.561	407.924	388.141	368.285	348.575	329.011	309.666	290.467	271.487
47.5	448.366	428.291	408.143	387.557	367.044	347.553	326.456	306.308	286.014	266.012
50.0	449.096	428.364	407.340	386.170	364.416	342.735	321.273	300.103	279.225	258.639
52.5	448.950	427.123	404.931	382.593	360.036	337.625	315.360	293.460	271.998	250.828
55.0	447.782	425.590	401.646	378.432	355.218	332.004	309.009	286.379	264.260	242.579
57.5	445.957	421.940	397.850	373.760	350.400	325.872	302.220	278.933	256.230	234.038
60.0	443.767	418.728	393.616	368.650	343.903	319.302	294.920	271.049	247.689	225.059
62.5	441.139	415.005	388.944	363.029	337.406	312.148	287.255	262.727	238.783	215.788
65.0	438.146	410.917	383.834	356.970	330.471	304.483	278.933	253.894	229.585	206.152
67.5	434.642	405.953	378.140	350.327	322.952	296.161	270.246	244.769	219.949	196.151
70.0	430.554	400.989	371.862	343.173	314.995	287.912	262.070	236.739	211.992	188.194
72.5	426.101	396.317	367.190	338.647	310.542	283.240	256.668	230.826	205.714	181.332
75.0	424.568	393.835	363.905	334.705	306.016	277.911	250.828	224.548	198.998	174.178
77.5	422.159	390.550	359.744	329.960	300.833	272.144	244.404	217.832	191.917	166.732
80.0	418.801	386.243	354.780	324.485	294.920	265.720	237.542	210.605	184.471	158.921
82.5	414.348	381.279	349.013	318.207	288.423	258.712	230.096	202.867	176.587	150.818
85.0	408.800	375.147	342.297	311.126	281.123	251.120	222.139	195.640	169.141	143.080
87.5	402.741	368.504	335.143	303.607	273.531	243.236	213.817	186.296	159.943	133.736
90.0	394.200	359.671	326.091	294.482	264.406	234.038	204.473	176.952	150.599	124.465
92.5	402.741	368.504	335.143	303.607	273.531	243.236	213.817	186.296	159.943	133.736
95.0	408.800	375.147	342.297	311.126	281.123	251.120	222.139	195.640	169.141	143.080
97.5	414.348	381.279	349.013	318.207	288.423	258.712	230.096	202.867	176.587	150.818
100.0	418.801	386.389	354.780	324.485	294.920	265.720	237.542	210.605	184.471	158.921
102.5	422.159	390.550	359.744	329.960	300.833	272.144	244.404	217.832	191.917	166.732
105.0	424.568	393.835	363.905	334.705	306.016	277.911	250.828	224.548	198.998	174.178
107.5	426.101	396.317	367.190	338.647	310.542	283.240	256.668	230.826	205.714	181.332
110.0	430.554	400.989	371.862	343.173	314.995	287.912	262.070	236.739	211.992	188.194
112.5	434.642	406.245	378.140	350.327	322.952	296.307	270.246	244.769	219.949	196.151
115.0	438.146	410.917	383.834	356.970	330.471	304.483	278.933	253.894	229.585	206.152
117.5	441.139	415.005	389.236	363.029	337.406	312.148	287.255	262.727	238.783	215.788
120.0	443.767	418.728	393.616	368.650	343.903	319.302	294.920	271.049	247.689	225.059
122.5	445.957	421.940	397.850	373.760	350.400	325.872	302.220	278.933	256.230	234.038
125.0	448.074	425.590	401.646	378.432	355.218	332.004	309.009	286.379	264.260	242.579
127.5	449.169	427.123	404.931	382.593	360.036	337.625	315.360	293.460	271.998	250.828
130.0	449.096	428.364	407.340	386.170	364.416	342.735	321.273	300.103	279.225	258.639
132.5	448.366	428.291	408.143	387.557	367.044	347.553	326.456	306.308	286.014	266.012
135.0	446.833	427.561	407.924	388.141	368.285	348.575	329.011	309.666	290.467	271.487
137.5	444.935	426.028	407.121	387.995	368.869	349.816	330.909	312.294	293.533	275.283
140.0	441.504	423.546	405.369	387.046	368.723	350.400	332.150	314.046	296.015	278.568
142.5	437.489	420.261	402.814	385.294	367.774	350.254	333.756	315.287	298.132	281.415
145.0	432.525	416.027	399.456	382.812	366.095	349.451	332.734	316.017	299.811	284.408
147.5	426.466	410.917	395.514	379.454	363.686	347.772	331.931	316.309	300.833	285.868
150.0	419.458	404.931	390.112	375.293	360.401	345.436	330.544	315.944	301.490	287.547
152.5	409.603	397.704	384.126	370.256	356.313	342.443	328.719	314.995	301.782	288.642
155.0	395.295	385.513	373.249	361.861	350.400	338.793	326.164	313.754	301.563	289.445
157.5	380.330	370.329	360.182	349.962	339.596	329.157	318.791	308.425	297.986	288.058
160.0	364.562	355.802	346.823	337.698	328.500	319.448	310.250	300.906	292.000	283.021
162.5	348.575	340.837	333.756	325.215	317.331	309.301	301.344	293.533	285.722	277.765
165.0	332.223	325.872	319.302	312.659	306.600	299.300	292.657	285.868	279.079	272.655
167.5	316.090	310.761	305.505	300.176	294.701	289.226	283.605	278.130	272.801	267.472

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CANDELA TABULATION - (Cont.)

170.0	300.176	296.088	291.854	287.547	283.386	279.079	274.918	270.684	266.377	261.997
172.5	284.262	281.415	278.495	275.502	272.363	269.297	266.085	262.873	259.588	256.741
175.0	269.224	267.253	265.282	263.311	261.267	259.442	257.690	255.865	254.040	252.215
177.5	255.354	254.551	253.748	252.872	251.996	251.120	250.171	249.295	248.346	247.397
180.0	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360

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	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433
2.5	246.375	245.499	244.550	243.601	242.579	241.630	240.681	239.951	239.148	238.418
5.0	250.317	248.419	246.448	244.623	242.725	240.827	238.929	237.469	235.936	234.476
7.5	253.967	251.193	248.419	245.572	242.798	239.951	237.177	234.987	232.797	230.607
10.0	257.617	253.821	250.171	246.448	242.798	239.075	235.425	232.505	229.658	226.811
12.5	262.070	256.595	251.777	247.251	242.652	238.199	233.673	230.096	226.592	223.088
15.0	266.231	259.807	253.383	247.908	242.506	237.250	231.921	227.760	223.526	219.438
17.5	270.246	262.873	255.427	248.492	242.287	236.228	230.169	225.351	220.606	215.934
20.0	274.042	265.647	257.325	249.003	241.995	235.206	228.417	223.015	217.686	212.795
22.5	278.057	268.275	259.077	249.879	241.630	234.184	226.665	220.752	214.839	209.291
25.0	277.984	266.596	256.084	245.791	236.155	228.125	220.168	213.963	207.685	202.283
27.5	276.086	263.822	252.142	241.265	230.607	222.139	213.744	207.247	200.750	195.202
30.0	274.407	260.829	248.200	236.520	224.840	216.007	207.247	200.604	193.888	188.267
32.5	271.268	257.398	243.893	231.483	219.292	209.875	200.823	194.034	187.245	181.478
35.0	268.494	253.602	239.513	226.300	213.963	203.670	194.326	187.391	180.894	174.908
37.5	265.209	249.514	234.914	220.971	208.196	197.392	187.902	180.967	174.543	168.484
40.0	261.559	245.353	230.023	215.423	202.283	190.968	181.405	174.543	168.192	162.206
42.5	257.471	240.827	224.840	209.656	196.224	184.617	174.981	168.192	161.987	156.293
45.0	253.237	235.936	219.365	203.962	190.092	178.120	168.484	161.914	155.928	150.161
47.5	246.740	228.344	210.897	194.837	180.383	167.900	158.410	152.059	146.365	141.036
50.0	238.637	219.511	201.553	185.201	170.382	157.753	148.336	142.277	136.875	131.765
52.5	230.242	210.532	192.209	175.419	160.308	147.460	138.335	132.568	127.385	122.567
55.0	221.482	201.334	182.573	165.418	150.015	137.094	128.261	122.786	118.041	113.515
57.5	212.430	191.917	172.791	155.271	139.284	126.728	118.187	113.223	108.332	104.536
60.0	203.159	182.281	162.717	144.978	128.845	116.362	108.113	103.587	99.207	95.703
62.5	193.523	172.353	152.497	134.539	118.406	105.850	98.112	93.951	90.009	86.870
65.0	183.595	162.133	142.058	123.881	107.748	95.338	88.038	84.461	80.957	78.256
67.5	173.375	151.694	131.400	113.150	97.090	84.753	77.964	74.898	71.905	69.642
70.0	165.345	143.664	123.297	104.828	88.695	76.212	69.277	66.503	63.802	61.685
72.5	158.118	136.145	115.413	96.579	80.227	67.598	60.663	58.254	55.772	53.947
75.0	150.599	128.334	107.310	88.184	71.686	59.276	51.976	49.859	47.742	46.136
77.5	142.861	120.377	99.134	79.789	63.072	50.589	43.289	41.537	39.712	38.398
80.0	134.758	112.201	90.739	70.883	54.896	41.902	34.675	33.215	31.828	30.441
82.5	126.436	103.806	82.928	62.707	45.990	33.215	25.988	24.893	23.798	22.776
85.0	118.406	95.557	73.584	53.801	37.157	24.528	17.301	16.571	15.841	15.184
87.5	108.770	86.213	64.678	44.822	28.251	15.841	8.687	8.322	7.957	7.592
90.0	99.791	77.307	55.772	35.916	19.418	7.154	0.000	0.000	0.000	0.000
92.5	109.062	86.432	64.824	44.895	28.251	15.841	8.687	8.322	7.957	7.665
95.0	118.406	95.557	73.876	53.947	37.230	24.528	17.301	16.571	15.914	15.330
97.5	126.436	103.806	82.928	62.926	46.063	33.215	25.988	24.893	23.871	22.995
100.0	134.758	112.201	90.739	71.175	55.042	41.902	34.675	33.288	31.901	30.660
102.5	142.861	120.377	99.134	79.789	63.291	50.662	43.289	41.537	39.858	38.398
105.0	150.599	128.334	107.310	88.184	71.905	59.349	51.976	49.932	47.888	46.136
107.5	158.118	136.145	115.413	96.579	80.446	67.671	60.663	58.254	55.991	53.947
110.0	165.345	143.664	123.297	104.828	88.987	76.285	69.277	66.576	64.021	61.685
112.5	173.375	151.694	131.400	113.150	97.455	84.826	77.964	74.971	72.197	69.642
115.0	183.595	162.133	142.058	123.881	108.113	95.411	88.038	84.534	81.249	78.256

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CANDELA TABULATION - (Cont.)

117.5	193.523	172.353	152.497	134.539	118.771	105.923	98.112	94.024	90.301	86.870
120.0	203.159	182.281	162.717	144.978	129.283	116.435	108.113	103.660	99.499	95.703
122.5	212.430	191.917	172.791	155.271	139.722	126.874	118.187	113.296	108.697	104.536
125.0	221.482	201.334	182.573	165.418	150.015	137.240	128.261	122.932	118.041	113.515
127.5	230.242	210.532	192.209	175.419	160.308	147.533	138.335	132.641	127.385	122.567
130.0	238.637	219.511	201.553	185.201	170.382	157.826	148.336	142.423	136.875	131.765
132.5	246.740	228.344	210.897	194.837	180.383	168.046	158.410	152.132	146.365	141.036
135.0	253.237	235.936	219.365	203.962	190.092	178.193	168.484	161.987	155.928	150.161
137.5	257.471	240.827	224.840	209.656	196.224	184.690	174.981	168.265	161.987	156.293
140.0	261.559	245.353	230.023	215.423	202.283	191.041	181.405	174.616	168.192	162.206
142.5	265.209	249.514	234.914	220.971	208.196	197.465	187.902	181.040	174.543	168.484
145.0	268.494	253.602	239.513	226.300	213.963	203.743	194.326	187.464	180.894	174.908
147.5	271.268	257.398	243.893	231.483	219.584	209.948	200.823	194.034	187.464	181.478
150.0	274.407	260.829	248.200	236.520	225.132	216.080	207.247	200.604	194.107	188.267
152.5	276.086	263.822	252.142	241.265	230.826	222.212	213.744	207.320	200.969	195.202
155.0	277.984	266.596	256.084	245.791	236.374	228.198	220.168	213.963	207.904	202.283
157.5	278.057	268.275	259.077	249.879	241.703	234.184	226.665	220.752	214.912	209.291
160.0	274.042	265.647	257.325	249.003	242.068	235.206	228.417	223.088	217.759	212.795
162.5	270.246	262.873	255.427	248.492	242.360	236.228	230.169	225.424	220.679	215.934
165.0	266.231	259.807	253.383	247.908	242.579	237.250	231.921	227.760	223.599	219.438
167.5	262.070	256.595	251.777	247.251	242.725	238.199	233.673	230.096	226.592	223.088
170.0	257.617	253.821	250.171	246.521	242.798	239.075	235.425	232.578	229.658	226.811
172.5	253.967	251.193	248.419	245.572	242.798	239.951	237.177	234.987	232.797	230.607
175.0	250.317	248.419	246.521	244.623	242.725	240.827	238.929	237.469	235.936	234.476
177.5	246.448	245.499	244.550	243.601	242.579	241.630	240.681	239.951	239.148	238.418
180.0	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360

**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	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433
2.5	237.688	236.958	236.155	235.571	234.841	234.184	233.527	232.870	232.213	231.629
5.0	232.943	231.556	230.169	228.782	227.395	226.081	224.767	223.453	222.212	221.117
7.5	228.490	226.373	224.256	222.212	220.606	218.416	216.664	214.985	213.306	211.700
10.0	224.037	221.263	219.000	216.080	213.744	211.335	209.072	206.809	204.619	202.648
12.5	219.657	216.299	213.306	210.240	207.320	204.400	201.699	199.144	196.662	194.253
15.0	215.861	211.773	208.196	204.619	201.553	197.976	194.910	191.917	188.924	186.296
17.5	211.554	207.320	203.232	199.217	195.567	191.917	188.413	185.128	182.062	179.069
20.0	207.758	203.013	198.852	194.253	190.092	186.150	182.427	178.850	175.346	172.207
22.5	204.035	198.852	194.034	189.435	184.909	180.748	176.733	172.791	169.214	165.783
25.0	196.954	191.844	187.172	182.646	178.485	174.543	170.747	167.243	163.301	159.724
27.5	189.654	184.471	179.580	174.981	170.747	166.586	162.790	159.067	155.855	152.789
30.0	182.500	177.317	172.280	167.681	163.228	159.140	155.198	151.621	148.263	145.197
32.5	175.711	170.455	165.418	160.673	156.220	151.986	148.117	144.467	141.109	138.043
35.0	169.214	163.739	158.775	153.957	149.577	145.270	141.401	137.751	134.393	131.327
37.5	162.790	157.607	152.351	147.606	143.153	138.919	134.977	131.400	128.042	125.049
40.0	156.585	151.183	146.219	141.547	137.021	132.933	128.991	125.414	122.129	119.063
42.5	150.526	145.270	140.525	135.707	131.254	127.093	123.297	119.720	116.435	113.515
45.0	144.686	139.503	134.685	130.086	125.706	121.618	117.822	114.318	111.106	108.186
47.5	135.999	131.400	127.166	123.151	119.428	116.070	112.639	109.135	106.069	103.149
50.0	126.947	122.567	118.479	114.683	111.033	107.821	104.901	102.273	100.083	98.112
52.5	118.041	113.807	110.011	106.361	103.003	99.791	96.871	94.389	92.199	90.228
55.0	109.208	105.339	101.689	98.331	95.119	91.980	89.133	86.651	84.461	82.636
57.5	100.594	96.944	93.659	90.447	87.381	84.315	81.541	79.059	76.869	75.190
60.0	92.126	88.768	85.702	82.855	79.789	76.796	74.022	71.613	69.569	67.817
62.5	83.658	80.738	77.891	75.190	72.343	69.423	66.722	64.386	62.342	60.663

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CANDELA TABULATION - (Cont.)

65.0	75.409	72.781	70.299	67.744	65.043	62.123	59.422	57.159	55.261	53.728
67.5	67.160	64.897	62.707	60.444	57.816	54.896	52.341	50.005	48.253	46.866
70.0	59.495	57.451	55.480	53.363	50.808	48.034	45.479	43.289	41.464	40.223
72.5	51.903	50.151	48.326	46.428	44.165	41.683	39.420	37.522	35.843	34.602
75.0	44.457	42.851	41.318	39.639	37.595	35.478	33.507	31.828	30.514	29.419
77.5	37.011	35.624	34.383	32.923	31.171	29.346	27.740	26.353	25.258	24.309
80.0	29.492	28.470	27.375	26.207	24.747	23.360	22.046	20.951	20.075	19.345
82.5	22.119	21.316	20.513	19.637	18.469	17.374	16.425	15.622	15.038	14.454
85.0	14.527	14.235	13.724	13.067	12.264	11.534	10.950	10.366	10.001	9.636
87.5	7.227	6.935	6.570	6.497	6.132	5.767	5.475	5.183	4.964	4.745
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	7.373	7.081	6.789	6.497	6.132	5.767	5.475	5.183	4.964	4.745
95.0	14.746	14.235	13.724	13.067	12.264	11.534	10.950	10.366	10.001	9.636
97.5	22.119	21.316	20.513	19.637	18.469	17.374	16.425	15.622	15.038	14.454
100.0	29.492	28.470	27.375	26.207	24.747	23.360	22.046	20.951	20.075	19.345
102.5	37.011	35.624	34.383	32.923	31.171	29.346	27.740	26.353	25.258	24.309
105.0	44.457	42.851	41.318	39.639	37.595	35.478	33.507	31.828	30.514	29.419
107.5	51.903	50.151	48.326	46.428	44.165	41.683	39.420	37.522	35.916	34.602
110.0	59.495	57.451	55.480	53.363	50.808	48.034	45.479	43.289	41.464	40.223
112.5	67.160	64.897	62.707	60.444	57.816	54.896	52.341	50.078	48.253	46.866
115.0	75.409	72.781	70.299	67.744	65.043	62.123	59.422	57.159	55.261	53.728
117.5	83.658	80.738	77.891	75.190	72.343	69.423	66.722	64.386	62.342	60.663
120.0	92.126	88.768	85.702	82.855	79.789	76.796	74.022	71.613	69.569	67.817
122.5	100.594	96.944	93.659	90.447	87.381	84.315	81.541	79.059	76.869	75.190
125.0	109.208	105.339	101.689	98.331	95.119	91.980	89.133	86.651	84.461	82.636
127.5	118.041	113.807	110.011	106.361	103.003	99.791	96.871	94.389	92.199	90.228
130.0	126.947	122.567	118.479	114.683	111.033	107.821	104.901	102.273	100.083	98.112
132.5	135.999	131.400	127.166	123.151	119.428	116.070	112.639	109.135	106.069	103.149
135.0	144.686	139.503	134.685	130.086	125.706	121.618	117.822	114.318	111.106	108.186
137.5	150.526	145.270	140.525	135.707	131.254	127.093	123.297	119.720	116.435	113.515
140.0	156.585	151.183	146.219	141.547	137.021	132.933	128.991	125.414	122.129	119.063
142.5	162.790	157.607	152.351	147.606	143.153	138.919	134.977	131.400	128.042	125.049
145.0	169.214	163.739	158.775	153.957	149.577	145.270	141.401	137.751	134.393	131.327
147.5	175.711	170.455	165.418	160.673	156.220	151.986	148.117	144.467	141.109	138.043
150.0	182.500	177.317	172.280	167.681	163.228	159.140	155.198	151.621	148.263	145.197
152.5	189.654	184.471	179.580	174.981	170.747	166.586	162.790	159.067	155.855	152.789
155.0	196.954	191.844	187.172	182.646	178.485	174.543	170.747	167.243	163.301	159.724
157.5	204.035	198.852	194.034	189.435	184.909	180.748	176.733	172.791	169.214	165.783
160.0	207.758	203.013	198.852	194.253	190.092	186.150	182.427	178.850	175.346	172.207
162.5	211.554	207.320	203.232	199.217	195.567	191.917	188.413	185.128	182.062	179.069
165.0	215.861	211.773	208.196	204.619	201.553	197.976	194.910	191.917	188.924	186.296
167.5	219.657	216.299	213.306	210.240	207.320	204.400	201.699	199.144	196.662	194.253
170.0	224.037	221.263	219.000	216.080	213.744	211.335	209.072	206.809	204.619	202.648
172.5	228.490	226.373	224.256	222.212	220.606	218.416	216.664	214.985	213.306	211.700
175.0	233.016	231.556	230.169	228.782	227.395	226.081	224.767	223.453	222.212	221.117
177.5	237.688	236.958	236.228	235.571	234.841	234.184	233.527	232.870	232.213	231.629
180.0	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360

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	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433
2.5	231.045	230.461	229.877	229.366	228.855	228.417	227.906	227.541	227.103	226.738
5.0	220.095	219.073	218.124	217.175	216.299	215.423	214.620	213.890	213.160	212.503
7.5	210.167	208.634	207.174	206.152	204.619	203.451	202.356	201.261	200.312	199.363
10.0	200.750	198.925	197.173	195.421	193.815	192.209	190.822	189.581	188.413	187.318

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CANDELA TABULATION - (Cont.)

12.5	191.917	190.019	187.683	185.785	183.960	182.208	180.529	178.996	177.609	176.441
15.0	183.814	181.405	178.996	177.098	174.762	172.937	171.112	169.433	167.827	166.440
17.5	176.149	173.521	171.039	168.630	166.294	164.250	162.352	160.600	158.921	157.315
20.0	169.141	166.221	163.447	160.965	158.629	156.366	154.322	152.424	150.745	149.066
22.5	162.425	159.505	156.585	153.811	151.402	149.139	146.949	144.978	143.226	141.620
25.0	156.366	153.154	150.234	147.460	144.759	142.423	140.233	138.189	136.364	134.758
27.5	149.942	147.314	144.175	141.401	138.773	136.291	134.101	132.057	130.159	128.480
30.0	142.350	139.722	137.386	135.269	133.152	130.743	128.480	126.363	124.465	122.640
32.5	135.196	132.641	130.305	128.261	126.363	124.757	123.151	120.961	119.063	117.311
35.0	128.553	125.998	123.735	121.691	119.866	118.187	116.800	115.559	114.099	112.274
37.5	122.202	119.793	117.530	115.486	113.661	111.982	110.595	109.427	108.405	107.529
40.0	116.435	113.953	111.617	109.646	107.821	106.215	104.755	103.514	102.492	101.689
42.5	110.814	108.405	106.142	104.025	102.200	100.521	98.988	97.601	96.579	95.776
45.0	105.558	103.076	100.740	98.623	96.652	94.900	93.221	91.834	90.666	89.644
47.5	100.448	97.966	95.630	93.440	91.250	89.279	87.454	85.848	84.534	83.439
50.0	95.630	93.075	90.593	88.184	85.775	83.585	81.541	79.862	78.475	77.307
52.5	88.695	87.162	85.556	82.928	80.300	77.891	75.628	74.022	72.489	71.175
55.0	81.030	79.570	77.891	76.212	74.533	72.124	70.080	68.328	66.795	65.408
57.5	73.584	71.978	70.372	68.693	67.014	65.554	64.386	62.853	61.320	59.860
60.0	66.284	64.751	63.145	61.539	60.006	58.765	57.743	56.940	56.137	54.604
62.5	59.203	57.743	56.210	54.750	53.436	52.341	51.392	50.589	49.859	49.494
65.0	52.341	50.954	49.567	48.253	47.158	46.209	45.333	44.530	43.873	43.581
67.5	45.625	44.311	43.216	42.194	41.245	40.369	39.566	38.690	38.252	37.960
70.0	39.201	38.106	37.230	36.354	35.478	34.675	33.872	33.288	32.850	32.485
72.5	33.434	32.339	31.390	30.733	30.003	29.127	28.470	27.959	27.667	27.302
75.0	28.397	27.448	26.645	25.915	25.039	24.090	23.287	22.922	22.557	22.411
77.5	23.506	22.703	22.046	21.389	20.586	19.783	19.126	18.542	18.104	17.666
80.0	18.688	18.031	17.520	16.936	16.279	15.695	15.111	14.673	14.308	13.943
82.5	13.943	13.505	13.067	12.556	12.118	11.607	11.242	10.950	10.585	10.293
85.0	9.271	8.906	8.687	8.322	8.030	7.665	7.446	7.227	7.008	6.862
87.5	4.672	4.453	4.307	4.161	4.015	3.796	3.723	3.577	3.504	3.431
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	4.672	4.453	4.307	4.161	4.015	3.796	3.723	3.577	3.504	3.431
95.0	9.271	8.906	8.687	8.322	8.030	7.665	7.446	7.227	7.008	6.862
97.5	13.943	13.505	13.067	12.556	12.118	11.607	11.242	10.950	10.585	10.293
100.0	18.688	18.031	17.520	16.936	16.279	15.695	15.111	14.673	14.308	13.943
102.5	23.506	22.703	22.046	21.389	20.732	19.783	19.126	18.542	18.104	17.739
105.0	28.397	27.448	26.645	25.915	25.039	24.090	23.287	22.922	22.630	22.411
107.5	33.434	32.339	31.390	30.733	30.003	29.200	28.470	27.959	27.667	27.302
110.0	39.201	38.106	37.230	36.354	35.478	34.675	33.872	33.288	32.850	32.485
112.5	45.625	44.457	43.216	42.194	41.245	40.369	39.566	38.690	38.252	37.960
115.0	52.341	50.954	49.567	48.253	47.158	46.209	45.333	44.603	43.873	43.581
117.5	59.349	57.743	56.210	54.750	53.436	52.341	51.392	50.589	49.859	49.494
120.0	66.284	64.751	63.145	61.539	60.006	58.765	57.743	56.940	56.137	54.604
122.5	73.584	71.978	70.372	68.693	67.014	65.554	64.386	62.853	61.320	59.860
125.0	81.030	79.570	78.037	76.212	74.533	72.124	70.153	68.328	66.795	65.408
127.5	88.695	87.162	85.629	82.928	80.300	77.891	75.701	74.022	72.489	71.175
130.0	95.630	93.075	90.593	88.184	85.775	83.585	81.614	79.862	78.475	77.307
132.5	100.448	97.966	95.630	93.440	91.250	89.279	87.454	85.848	84.534	83.439
135.0	105.558	103.076	100.740	98.623	96.652	94.900	93.221	91.834	90.666	89.644
137.5	110.814	108.405	106.215	104.025	102.200	100.521	98.988	97.601	96.579	95.776
140.0	116.435	113.953	111.617	109.646	107.821	106.215	104.755	103.514	102.492	101.689
142.5	122.202	119.793	117.530	115.486	113.661	112.055	110.595	109.500	108.405	107.529
145.0	128.553	125.998	123.735	121.691	119.866	118.187	116.800	115.559	114.099	112.274
147.5	135.269	132.641	130.305	128.261	126.363	124.757	123.151	120.961	119.136	117.311
150.0	142.350	139.722	137.386	135.269	133.152	130.743	128.480	126.363	124.465	122.640

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CANDELA TABULATION - (Cont.)

152.5	149.942	147.387	144.175	141.401	138.773	136.291	134.101	132.057	130.159	128.480
155.0	156.366	153.154	150.234	147.460	144.759	142.423	140.233	138.189	136.364	134.758
157.5	162.425	159.505	156.585	153.811	151.402	149.139	146.949	144.978	143.226	141.620
160.0	169.141	166.221	163.447	161.038	158.629	156.366	154.322	152.497	150.745	149.066
162.5	176.149	173.521	171.039	168.630	166.367	164.250	162.352	160.600	158.921	157.315
165.0	183.814	181.405	178.996	177.098	174.762	172.937	171.112	169.433	167.827	166.440
167.5	191.917	190.019	187.683	185.785	183.960	182.208	180.529	178.996	177.609	176.441
170.0	200.750	198.925	197.173	195.421	193.815	192.209	190.822	189.581	188.413	187.318
172.5	210.167	208.634	207.174	206.152	204.619	203.451	202.356	201.261	200.312	199.363
175.0	220.095	219.073	218.124	217.175	216.299	215.423	214.620	213.890	213.160	212.503
177.5	231.045	230.461	229.877	229.366	228.855	228.417	227.906	227.541	227.103	226.738
180.0	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360

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	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433
2.5	226.446	226.081	225.862	225.570	225.351	225.205	225.059	224.913	224.840	224.767
5.0	211.919	211.408	210.897	210.459	210.094	209.729	209.437	209.218	209.072	208.999
7.5	198.560	197.830	197.100	196.516	195.932	195.494	195.129	194.764	194.545	194.399
10.0	186.369	185.420	184.617	183.887	183.230	182.646	182.208	181.843	181.551	181.332
12.5	175.273	174.251	173.302	172.499	171.769	171.112	170.601	170.163	169.871	169.652
15.0	165.199	164.031	163.009	162.133	161.330	160.600	160.016	159.578	159.213	158.994
17.5	156.293	154.760	153.665	152.716	151.840	151.110	150.526	150.015	149.650	149.431
20.0	147.606	146.292	145.124	144.175	143.299	142.569	141.912	141.474	141.109	140.817
22.5	140.087	138.627	137.459	136.510	135.707	134.977	134.393	133.882	133.517	133.298
25.0	133.298	131.911	130.743	129.721	128.845	128.042	127.458	127.020	126.655	126.436
27.5	127.020	125.633	124.392	123.297	122.421	121.691	121.034	120.596	120.231	120.012
30.0	121.180	119.793	118.552	117.457	116.508	115.778	115.194	114.756	114.464	114.318
32.5	115.705	114.391	113.150	112.055	111.106	110.376	109.792	109.281	108.989	108.843
35.0	110.668	109.281	108.040	106.945	105.996	105.193	104.463	104.025	103.660	103.441
37.5	105.923	104.390	103.149	101.908	100.886	100.010	99.280	98.696	98.258	98.112
40.0	101.105	99.718	98.258	96.944	95.849	94.827	93.951	93.294	92.783	92.564
42.5	95.119	94.681	93.440	91.834	90.520	89.352	88.330	87.600	87.089	86.797
45.0	88.914	88.330	88.038	86.505	84.972	83.658	82.563	81.760	81.249	80.957
47.5	82.563	81.833	81.249	80.811	79.278	77.818	76.723	75.847	75.190	74.825
50.0	76.212	75.336	74.679	74.241	73.511	71.978	70.737	69.861	69.350	69.058
52.5	70.080	69.131	68.255	67.525	67.087	66.284	65.043	64.313	63.802	63.656
55.0	64.167	63.072	62.123	61.393	60.882	60.736	59.933	59.203	58.765	58.546
57.5	58.546	57.524	56.575	55.845	55.407	55.334	55.334	54.531	54.020	53.728
60.0	53.436	52.414	51.392	50.735	50.297	50.151	50.443	50.151	49.275	48.764
62.5	48.764	47.523	46.574	45.844	45.333	45.187	45.041	45.260	44.457	43.946
65.0	43.289	42.997	41.902	41.026	40.369	39.858	39.785	40.077	39.931	39.201
67.5	37.595	37.449	37.084	36.208	35.405	34.894	34.821	34.894	35.332	34.456
70.0	32.193	31.828	31.536	31.317	30.660	30.149	29.930	29.930	30.003	29.638
72.5	27.010	26.718	26.499	26.207	25.915	25.769	25.550	25.185	24.893	25.258
75.0	22.119	21.900	21.754	21.608	21.462	21.535	21.316	20.805	20.732	20.805
77.5	17.520	17.447	17.447	17.447	17.520	17.447	17.228	17.082	16.863	16.717
80.0	13.578	13.505	13.578	13.724	13.797	13.724	13.651	13.578	13.578	13.432
82.5	10.147	10.074	10.074	10.147	10.293	10.512	10.439	10.366	10.439	10.585
85.0	6.716	6.643	6.716	6.789	6.862	7.008	7.227	7.592	4.891	4.672
87.5	3.358	3.358	3.358	3.358	3.431	3.504	3.577	3.796	0.584	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	3.358	3.358	3.358	3.358	3.431	3.504	3.577	3.796	0.584	0.000
95.0	6.716	6.643	6.716	6.789	6.862	7.008	7.227	7.592	4.891	4.672
97.5	10.147	10.074	10.074	10.147	10.293	10.512	10.439	10.366	10.439	10.585

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CANDELA TABULATION - (Cont.)

100.0	13.578	13.505	13.578	13.724	13.797	13.724	13.651	13.578	13.578	13.432
102.5	17.520	17.447	17.447	17.520	17.520	17.447	17.228	17.082	16.863	16.717
105.0	22.119	21.900	21.754	21.608	21.462	21.535	21.316	20.805	20.732	20.805
107.5	27.010	26.718	26.499	26.207	25.915	25.769	25.550	25.185	24.893	25.258
110.0	32.193	31.828	31.536	31.317	30.660	30.149	29.930	29.930	30.003	29.638
112.5	37.595	37.449	37.084	36.208	35.405	34.894	34.821	34.967	35.332	34.456
115.0	43.289	42.997	41.902	41.026	40.369	39.858	39.785	40.077	39.931	39.201
117.5	48.764	47.523	46.574	45.844	45.333	45.187	45.041	45.260	44.457	43.946
120.0	53.436	52.414	51.392	50.735	50.297	50.151	50.443	50.151	49.275	48.764
122.5	58.546	57.524	56.575	55.845	55.407	55.334	55.334	54.531	54.020	53.728
125.0	64.167	63.072	62.123	61.393	60.882	60.736	59.933	59.203	58.765	58.546
127.5	70.080	69.131	68.255	67.525	67.087	66.284	65.043	64.313	63.802	63.656
130.0	76.212	75.336	74.679	74.241	73.511	71.978	70.737	69.861	69.350	69.058
132.5	82.563	81.833	81.249	80.811	79.278	77.818	76.723	75.847	75.190	74.825
135.0	88.914	88.330	88.038	86.505	84.972	83.658	82.563	81.760	81.249	80.957
137.5	95.119	94.681	93.440	91.834	90.520	89.352	88.330	87.600	87.089	86.797
140.0	101.105	99.718	98.258	96.944	95.849	94.827	93.951	93.294	92.783	92.564
142.5	105.923	104.390	103.149	101.908	100.886	100.010	99.280	98.696	98.331	98.112
145.0	110.668	109.281	108.040	106.945	105.996	105.193	104.463	104.025	103.660	103.441
147.5	115.705	114.391	113.150	112.055	111.106	110.376	109.792	109.281	108.989	108.843
150.0	121.180	119.793	118.552	117.457	116.508	115.778	115.194	114.756	114.464	114.318
152.5	127.020	125.633	124.392	123.297	122.421	121.691	121.034	120.596	120.231	120.012
155.0	133.298	131.911	130.743	129.721	128.845	128.042	127.458	127.020	126.655	126.436
157.5	140.087	138.627	137.532	136.510	135.707	134.977	134.393	133.882	133.517	133.298
160.0	147.606	146.292	145.124	144.175	143.299	142.569	141.912	141.474	141.109	140.817
162.5	156.293	154.760	153.665	152.716	151.840	151.110	150.526	150.015	149.650	149.431
165.0	165.199	164.031	163.009	162.133	161.330	160.600	160.016	159.578	159.213	158.994
167.5	175.273	174.251	173.302	172.499	171.769	171.112	170.601	170.163	169.871	169.652
170.0	186.369	185.420	184.617	183.887	183.230	182.646	182.208	181.843	181.551	181.332
172.5	198.560	197.830	197.100	196.516	196.005	195.494	195.129	194.764	194.545	194.399
175.0	211.919	211.408	210.897	210.459	210.094	209.729	209.437	209.218	209.072	208.999
177.5	226.446	226.081	225.862	225.570	225.351	225.205	225.059	224.913	224.840	224.767
180.0	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360

Vert. Angles	Horizontal Angles									
	175.0	177.5	180.0	182.5	185.0	187.5	190.0	192.5	195.0	197.5
0.0	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433
2.5	224.767	224.767	224.840	224.767	224.767	224.840	224.840	224.986	225.059	225.205
5.0	208.926	208.999	209.072	208.999	208.999	209.072	209.145	209.291	209.510	209.802
7.5	194.326	194.399	194.472	194.399	194.399	194.472	194.618	194.837	195.129	195.567
10.0	181.259	181.259	181.405	181.332	181.332	181.405	181.551	181.843	182.281	182.719
12.5	169.579	169.579	169.725	169.579	169.579	169.725	169.944	170.236	170.674	171.185
15.0	158.921	158.921	159.067	158.921	158.921	159.067	159.286	159.651	160.089	160.673
17.5	149.285	149.358	149.504	149.358	149.358	149.504	149.723	150.088	150.599	151.183
20.0	140.744	140.817	140.963	140.817	140.817	140.963	141.182	141.547	142.058	142.715
22.5	133.225	133.298	133.517	133.371	133.298	133.371	133.663	134.028	134.466	135.123
25.0	126.363	126.436	126.655	126.436	126.363	126.436	126.655	127.093	127.604	128.188
27.5	120.012	120.085	120.304	120.085	120.012	120.012	120.158	120.523	121.034	121.691
30.0	114.318	114.391	114.683	114.391	114.245	114.172	114.318	114.610	115.048	115.632
32.5	108.843	108.989	109.281	108.916	108.770	108.697	108.770	109.062	109.427	110.011
35.0	103.441	103.587	103.879	103.587	103.368	103.368	103.441	103.733	104.171	104.755
37.5	98.039	98.185	98.477	98.112	97.966	98.039	98.185	98.550	99.061	99.718
40.0	92.491	92.710	93.002	92.637	92.418	92.418	92.710	93.148	93.805	94.608
42.5	86.797	86.943	87.381	86.797	86.505	86.432	86.724	87.235	88.038	89.206
45.0	80.957	81.176	81.687	80.811	80.154	79.862	79.935	80.446	81.322	82.709

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

47.5	74.825	75.117	75.701	74.387	73.438	72.927	72.708	73.000	73.803	75.044
50.0	69.204	69.569	70.226	68.474	67.087	66.138	65.554	65.554	65.992	67.160
52.5	63.729	64.021	64.751	62.561	60.736	59.349	58.473	58.108	58.400	59.203
55.0	58.692	59.130	59.787	57.013	54.677	52.779	51.392	50.735	50.662	51.173
57.5	53.655	53.874	54.458	51.538	48.910	46.720	44.895	43.508	42.924	43.508
60.0	48.691	48.910	49.567	46.282	43.362	40.953	38.982	37.522	37.084	37.230
62.5	43.727	43.873	44.457	40.953	37.814	35.259	33.142	31.463	32.120	32.631
65.0	38.909	38.982	39.493	35.697	32.412	29.638	27.375	26.937	27.813	28.543
67.5	33.799	33.653	34.018	30.441	27.229	24.382	21.973	22.995	24.163	25.112
70.0	28.689	28.397	28.616	25.185	22.265	19.637	19.126	20.148	21.170	22.338
72.5	24.455	24.017	24.163	20.878	18.031	15.476	16.498	17.885	19.126	20.148
75.0	20.367	19.783	19.856	16.863	14.381	13.578	14.673	15.987	17.374	17.739
77.5	16.717	13.578	10.439	11.096	11.315	12.045	13.286	14.600	14.965	15.111
80.0	13.432	11.169	8.249	9.125	10.001	11.023	12.191	12.337	12.483	12.702
82.5	10.293	8.395	0.000	6.716	8.833	10.001	10.001	10.147	10.366	10.512
85.0	6.643	2.190	0.000	1.825	6.716	4.526	4.964	8.103	7.592	7.154
87.5	0.365	0.000	0.000	0.000	0.365	0.000	0.584	4.088	3.796	3.577
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.365	0.000	0.000	0.000	0.365	0.000	0.584	4.088	3.796	3.577
95.0	6.643	2.190	0.000	1.825	6.716	4.526	4.964	8.103	7.592	7.154
97.5	10.293	8.395	0.000	6.716	8.833	10.001	10.001	10.147	10.366	10.512
100.0	13.432	11.169	8.249	9.125	10.001	11.023	12.191	12.337	12.483	12.702
102.5	16.717	13.578	10.439	11.096	11.315	12.045	13.286	14.600	14.965	15.111
105.0	20.367	19.783	19.856	16.863	14.381	13.578	14.673	15.987	17.374	17.739
107.5	24.455	24.017	24.163	20.878	18.031	15.476	16.498	17.885	19.126	20.148
110.0	28.689	28.397	28.616	25.185	22.265	19.637	19.126	20.148	21.170	22.338
112.5	33.799	33.653	34.018	30.441	27.229	24.382	21.973	22.995	24.163	25.112
115.0	38.909	38.982	39.493	35.697	32.412	29.638	27.375	26.937	27.813	28.543
117.5	43.727	43.873	44.457	40.953	37.814	35.259	33.142	31.463	32.120	32.631
120.0	48.691	48.910	49.567	46.282	43.362	40.953	38.982	37.522	37.084	37.230
122.5	53.655	53.874	54.458	51.538	48.910	46.720	44.895	43.508	42.924	43.508
125.0	58.692	59.130	59.787	57.013	54.677	52.779	51.392	50.735	50.662	51.173
127.5	63.729	64.021	64.751	62.561	60.736	59.349	58.473	58.108	58.400	59.203
130.0	69.204	69.569	70.226	68.474	67.087	66.138	65.554	65.554	65.992	67.160
132.5	74.825	75.117	75.701	74.387	73.438	72.927	72.708	73.000	73.803	75.044
135.0	80.957	81.176	81.687	80.811	80.154	79.862	79.935	80.446	81.322	82.709
137.5	86.797	86.943	87.381	86.797	86.505	86.432	86.724	87.235	88.038	89.206
140.0	92.491	92.710	93.002	92.637	92.418	92.418	92.710	93.148	93.805	94.608
142.5	98.039	98.185	98.477	98.112	97.966	98.039	98.185	98.550	99.061	99.718
145.0	103.441	103.587	103.879	103.587	103.368	103.368	103.441	103.733	104.171	104.755
147.5	108.843	108.989	109.281	108.916	108.770	108.697	108.770	109.062	109.427	110.011
150.0	114.318	114.391	114.683	114.391	114.245	114.172	114.318	114.610	115.048	115.632
152.5	120.012	120.085	120.304	120.085	120.012	120.012	120.158	120.523	121.034	121.691
155.0	126.363	126.436	126.655	126.436	126.363	126.436	126.655	127.093	127.604	128.188
157.5	133.225	133.298	133.517	133.371	133.298	133.371	133.663	134.028	134.466	135.123
160.0	140.744	140.817	140.963	140.817	140.817	140.963	141.182	141.547	142.058	142.715
162.5	149.285	149.358	149.504	149.358	149.358	149.504	149.723	150.088	150.599	151.183
165.0	158.921	158.921	159.067	158.921	158.921	159.067	159.286	159.651	160.089	160.673
167.5	169.579	169.579	169.725	169.579	169.579	169.725	169.944	170.236	170.674	171.185
170.0	181.259	181.259	181.405	181.332	181.332	181.405	181.551	181.843	182.281	182.719
172.5	194.326	194.399	194.472	194.399	194.399	194.472	194.618	194.837	195.129	195.567
175.0	208.926	208.999	209.072	208.999	208.999	209.072	209.145	209.291	209.510	209.802
177.5	224.767	224.767	224.840	224.767	224.767	224.840	224.840	224.986	225.059	225.205
180.0	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BOLT-SM-LED35-MO-SAL.IES

CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	200.0	202.5	205.0	207.5	210.0	212.5	215.0	217.5	220.0	222.5
0.0	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433
2.5	225.424	225.643	225.862	226.154	226.519	226.811	227.176	227.614	228.052	228.490
5.0	210.167	210.532	211.043	211.481	212.065	212.649	213.379	214.036	214.839	215.642
7.5	196.078	196.589	197.246	197.976	198.706	199.582	200.531	201.480	202.502	203.670
10.0	183.303	184.033	184.763	185.639	186.588	187.537	188.632	189.873	191.114	192.501
12.5	171.842	172.645	173.448	174.470	175.492	176.660	177.901	179.288	180.894	182.500
15.0	161.403	162.279	163.155	164.250	165.418	166.659	168.119	169.725	171.404	173.229
17.5	151.986	152.862	153.811	154.906	156.439	157.534	159.140	160.892	162.717	164.615
20.0	143.445	144.394	145.343	146.438	147.825	149.358	150.964	152.789	154.614	156.731
22.5	135.853	136.729	137.751	138.919	140.306	141.839	143.518	145.270	147.314	149.504
25.0	128.991	129.867	130.889	132.130	133.517	134.977	136.656	138.554	140.671	142.861
27.5	122.494	123.443	124.538	125.779	127.166	128.699	130.451	132.422	134.466	136.656
30.0	116.362	117.238	118.406	119.720	121.253	122.932	124.757	126.655	128.772	131.108
32.5	110.741	111.617	112.712	114.026	115.413	117.092	119.136	121.253	123.443	125.122
35.0	105.412	106.361	107.456	108.697	110.157	111.836	113.661	115.340	116.800	118.406
37.5	100.594	101.470	102.492	103.660	105.120	106.799	107.675	108.843	110.230	111.836
40.0	95.557	96.652	97.893	99.207	100.375	100.521	101.178	102.346	103.879	105.631
42.5	90.301	91.615	93.148	94.170	93.951	94.097	94.681	95.703	97.309	99.353
45.0	84.169	85.994	87.527	87.016	86.943	87.162	87.819	88.914	90.520	92.710
47.5	76.869	78.986	79.059	79.132	79.351	79.716	80.446	81.760	83.585	85.848
50.0	68.912	69.642	70.007	70.664	71.248	71.905	72.781	74.095	76.066	78.694
52.5	60.006	60.444	61.174	62.050	62.999	63.948	64.970	66.357	68.328	71.175
55.0	51.611	52.268	52.925	53.874	54.969	56.137	57.305	58.619	60.736	63.364
57.5	44.092	44.822	45.625	46.501	47.523	48.764	49.932	51.246	52.998	55.699
60.0	37.741	38.398	39.128	39.931	40.880	41.902	43.143	44.749	46.574	48.691
62.5	32.996	33.288	33.799	34.237	34.967	36.062	37.595	39.201	40.734	42.559
65.0	29.127	29.492	29.711	29.784	30.295	31.463	32.704	34.237	35.624	37.011
67.5	25.915	26.353	26.499	26.499	26.718	27.521	28.543	29.638	30.879	32.047
70.0	23.287	23.652	23.579	23.506	23.652	24.017	24.820	25.623	26.572	27.521
72.5	20.586	20.659	20.732	20.659	20.878	21.097	21.535	22.046	22.630	23.287
75.0	17.739	17.885	17.958	18.031	18.104	18.323	18.615	18.907	19.126	19.418
77.5	15.184	15.257	15.403	15.330	15.403	15.695	15.622	15.695	15.841	16.060
80.0	12.848	12.848	12.921	12.629	12.483	12.410	12.410	12.483	12.556	12.775
82.5	10.293	9.928	9.709	9.417	9.344	9.271	9.271	9.344	9.417	9.490
85.0	6.862	6.643	6.424	6.278	6.205	6.132	6.132	6.205	6.205	6.278
87.5	3.431	3.285	3.212	3.139	3.066	3.066	3.066	3.139	3.139	3.139
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	3.431	3.285	3.212	3.139	3.066	3.066	3.066	3.139	3.139	3.139
95.0	6.862	6.643	6.424	6.278	6.132	6.132	6.132	6.205	6.205	6.278
97.5	10.293	9.928	9.709	9.417	9.344	9.271	9.271	9.344	9.417	9.490
100.0	12.848	12.848	12.921	12.629	12.483	12.410	12.410	12.483	12.556	12.775
102.5	15.184	15.257	15.403	15.330	15.403	15.622	15.622	15.695	15.841	16.060
105.0	17.739	17.885	17.958	18.031	18.104	18.323	18.542	18.907	19.126	19.418
107.5	20.586	20.659	20.732	20.659	20.878	21.097	21.535	22.046	22.630	23.214
110.0	23.287	23.652	23.579	23.506	23.652	24.017	24.820	25.623	26.572	27.521
112.5	25.915	26.353	26.499	26.499	26.718	27.521	28.543	29.638	30.879	32.047
115.0	29.127	29.492	29.711	29.784	30.295	31.463	32.704	34.164	35.624	37.011
117.5	32.996	33.288	33.799	34.237	34.967	36.062	37.595	39.201	40.734	42.559
120.0	37.741	38.398	39.128	39.931	40.880	41.902	43.143	44.749	46.574	48.691
122.5	44.092	44.822	45.625	46.501	47.523	48.764	49.932	51.246	52.998	55.699
125.0	51.611	52.268	52.925	53.874	54.969	56.137	57.305	58.619	60.663	63.364
127.5	60.006	60.444	61.174	62.050	62.999	63.948	64.970	66.357	68.255	71.175
130.0	68.912	69.642	70.007	70.664	71.248	71.905	72.781	74.095	76.066	78.694

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BOLT-SM-LED35-MO-SAL.IES

CANDELA TABULATION - (Cont.)

132.5	76.869	78.986	79.059	79.132	79.351	79.716	80.446	81.760	83.512	85.848
135.0	84.169	85.994	87.527	87.016	86.943	87.162	87.819	88.914	90.520	92.710
137.5	90.301	91.615	93.148	94.170	93.951	94.097	94.681	95.703	97.309	99.353
140.0	95.557	96.652	97.893	99.207	100.375	100.521	101.178	102.346	103.879	105.631
142.5	100.594	101.470	102.492	103.660	105.120	106.799	107.675	108.843	110.230	111.763
145.0	105.412	106.361	107.456	108.697	110.157	111.836	113.661	115.340	116.800	118.406
147.5	110.741	111.617	112.712	114.026	115.413	117.092	119.063	121.253	123.443	125.122
150.0	116.362	117.238	118.406	119.720	121.253	122.932	124.757	126.655	128.772	131.108
152.5	122.494	123.443	124.538	125.779	127.166	128.699	130.451	132.422	134.466	136.656
155.0	128.991	129.867	130.889	132.130	133.517	134.977	136.656	138.554	140.671	142.861
157.5	135.853	136.729	137.751	138.919	140.306	141.839	143.518	145.270	147.314	149.504
160.0	143.445	144.394	145.343	146.438	147.825	149.358	150.964	152.716	154.614	156.731
162.5	151.986	152.862	153.811	154.906	156.439	157.534	159.140	160.892	162.717	164.615
165.0	161.403	162.279	163.155	164.250	165.418	166.659	168.119	169.725	171.404	173.229
167.5	171.842	172.645	173.448	174.470	175.492	176.660	177.901	179.288	180.894	182.500
170.0	183.303	184.033	184.763	185.639	186.515	187.537	188.632	189.873	191.114	192.501
172.5	196.078	196.589	197.246	197.976	198.706	199.582	200.531	201.480	202.502	203.670
175.0	210.167	210.532	211.043	211.481	212.065	212.649	213.379	214.036	214.839	215.642
177.5	225.424	225.643	225.862	226.154	226.519	226.811	227.176	227.614	228.052	228.490
180.0	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360

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	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433
2.5	229.001	229.512	230.023	230.607	231.191	231.775	232.359	233.016	233.673	234.330
5.0	216.445	217.394	218.343	219.292	220.314	221.336	222.431	223.745	224.986	226.373
7.5	204.838	206.444	207.466	208.926	210.459	212.065	213.671	215.350	217.102	218.854
10.0	194.107	195.713	197.465	199.290	201.115	203.013	205.057	207.247	209.510	211.846
12.5	184.252	186.150	188.048	190.384	192.282	194.691	197.173	199.655	202.283	204.984
15.0	175.200	177.463	179.434	181.843	184.325	186.807	189.508	192.501	195.567	198.633
17.5	166.805	169.068	171.477	174.032	176.660	179.580	182.646	185.712	188.997	192.647
20.0	159.067	161.476	163.958	166.805	169.725	172.791	176.003	179.507	183.084	186.880
22.5	151.840	154.249	157.096	160.016	163.082	166.440	169.944	173.521	177.463	181.551
25.0	145.197	147.898	150.672	153.592	156.950	160.381	164.031	168.046	171.550	175.346
27.5	139.211	141.839	144.686	147.898	150.453	153.373	156.585	159.870	163.593	167.389
30.0	133.590	135.780	137.970	140.233	142.934	145.708	148.847	152.351	156.001	160.016
32.5	126.728	128.699	130.743	133.152	135.853	138.627	141.766	145.197	148.847	152.862
35.0	120.085	121.910	124.027	126.363	128.991	131.911	135.050	138.408	142.131	146.073
37.5	113.661	115.559	117.603	120.012	122.640	125.560	128.699	132.130	135.707	139.795
40.0	107.529	109.500	111.690	113.953	116.581	119.428	122.640	126.071	129.721	133.663
42.5	101.470	103.733	105.996	108.259	110.741	113.661	116.800	120.304	124.027	127.896
45.0	95.338	97.893	100.448	102.857	105.412	108.113	111.325	114.829	118.552	122.421
47.5	88.695	91.907	94.900	97.674	100.229	102.930	105.996	109.427	113.296	116.946
50.0	81.833	85.410	89.133	92.564	95.265	97.820	99.864	102.492	105.485	108.624
52.5	74.533	78.621	83.001	85.921	88.184	89.863	91.980	94.535	97.455	100.667
55.0	66.941	70.518	74.168	77.453	80.008	82.125	84.315	86.797	89.717	92.783
57.5	58.765	61.977	65.481	68.839	71.832	74.387	76.650	79.205	82.052	85.118
60.0	51.319	54.239	57.378	60.663	63.875	66.649	69.058	71.759	74.606	77.672
62.5	44.749	47.158	49.859	52.925	56.137	58.838	61.539	64.386	67.306	70.299
65.0	38.690	40.661	42.997	45.625	48.399	51.246	54.093	57.013	60.079	63.072
67.5	33.434	34.967	36.719	38.763	41.172	43.873	46.647	49.786	52.925	55.991
70.0	28.470	29.638	30.879	32.266	34.310	36.719	39.347	42.632	45.990	49.129
72.5	23.944	24.747	25.550	26.864	28.689	31.025	33.726	36.719	39.785	42.559
75.0	20.002	20.805	21.608	22.703	24.236	26.134	28.470	31.025	33.726	36.208
77.5	16.571	17.082	17.812	18.688	19.929	21.535	23.433	25.477	27.813	29.930

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CANDELA TABULATION - (Cont.)

80.0	13.067	13.505	14.089	14.819	15.695	17.009	18.542	20.221	22.046	23.798
82.5	9.709	10.074	10.512	11.023	11.680	12.629	13.724	15.038	16.498	17.812
85.0	6.424	6.716	6.935	7.300	7.738	8.322	9.125	9.928	10.950	11.826
87.5	3.212	3.358	3.431	3.577	3.869	4.161	4.526	4.964	5.475	5.913
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	3.212	3.358	3.431	3.577	3.869	4.161	4.526	4.964	5.475	5.913
95.0	6.424	6.716	6.935	7.300	7.738	8.322	9.125	9.928	10.950	11.826
97.5	9.709	10.074	10.512	11.023	11.680	12.629	13.724	15.038	16.498	17.812
100.0	13.067	13.505	14.089	14.746	15.695	17.009	18.542	20.221	22.046	23.798
102.5	16.498	17.082	17.812	18.688	19.929	21.535	23.433	25.477	27.813	29.930
105.0	20.002	20.805	21.608	22.703	24.236	26.134	28.470	31.025	33.726	36.208
107.5	23.944	24.747	25.550	26.864	28.689	31.025	33.726	36.719	39.785	42.559
110.0	28.470	29.638	30.879	32.266	34.310	36.719	39.347	42.632	45.990	49.129
112.5	33.434	34.967	36.719	38.617	41.172	43.873	46.647	49.713	52.925	55.991
115.0	38.690	40.661	42.997	45.625	48.399	51.246	54.093	57.013	60.079	63.072
117.5	44.749	47.158	49.859	52.925	55.991	58.838	61.539	64.386	67.306	70.299
120.0	51.319	54.239	57.378	60.663	63.875	66.649	69.058	71.759	74.606	77.672
122.5	58.765	61.977	65.481	68.839	71.832	74.387	76.650	79.205	82.052	85.118
125.0	66.941	70.518	74.022	77.453	80.008	82.125	84.315	86.797	89.717	92.783
127.5	74.533	78.621	83.001	85.921	88.184	89.863	91.980	94.535	97.455	100.667
130.0	81.833	85.410	89.133	92.564	95.265	97.820	99.864	102.492	105.485	108.624
132.5	88.695	91.907	94.900	97.674	100.229	102.930	105.996	109.427	113.296	116.946
135.0	95.338	97.893	100.375	102.857	105.412	108.113	111.325	114.829	118.552	122.421
137.5	101.470	103.733	105.923	108.259	110.741	113.661	116.800	120.304	124.027	127.896
140.0	107.529	109.500	111.690	113.953	116.581	119.428	122.640	126.071	129.721	133.663
142.5	113.661	115.559	117.603	120.012	122.640	125.560	128.699	132.130	135.707	139.795
145.0	120.085	121.910	124.027	126.363	128.991	131.911	135.050	138.408	142.131	146.073
147.5	126.728	128.699	130.743	133.152	135.780	138.627	141.766	145.197	148.847	152.862
150.0	133.590	135.780	137.970	140.233	142.934	145.708	148.847	152.351	156.001	160.016
152.5	139.211	141.839	144.686	147.825	150.453	153.373	156.585	159.870	163.593	167.389
155.0	145.197	147.898	150.672	153.592	156.950	160.381	164.031	168.046	171.550	175.346
157.5	151.840	154.249	157.096	160.016	163.082	166.440	169.944	173.521	177.463	181.551
160.0	159.067	161.476	163.958	166.805	169.725	172.791	176.003	179.507	183.084	186.880
162.5	166.732	169.068	171.477	174.032	176.660	179.580	182.646	185.712	188.997	192.647
165.0	175.200	177.463	179.434	181.843	184.325	186.807	189.508	192.501	195.567	198.633
167.5	184.252	186.150	188.048	190.384	192.282	194.691	197.173	199.655	202.283	204.984
170.0	194.107	195.713	197.465	199.290	201.115	203.013	205.057	207.247	209.510	211.846
172.5	204.838	206.444	207.466	208.926	210.459	212.065	213.671	215.350	217.102	218.854
175.0	216.445	217.394	218.343	219.292	220.314	221.336	222.431	223.745	224.986	226.373
177.5	229.001	229.512	230.023	230.607	231.191	231.775	232.359	233.016	233.673	234.330
180.0	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360

Vert. Horizontal Angles
Angles

	250.0	252.5	255.0	257.5	260.0	262.5	265.0	267.5	270.0	272.5
0.0	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433
2.5	235.060	235.717	236.447	237.177	237.907	238.637	239.367	240.170	240.900	241.849
5.0	227.687	229.074	230.461	231.921	233.381	234.841	236.301	237.761	239.294	241.192
7.5	220.971	222.650	224.694	226.811	229.001	231.191	233.308	235.571	237.761	240.608
10.0	214.182	216.664	219.584	221.847	224.621	227.468	230.388	233.235	236.155	239.878
12.5	207.977	210.897	213.963	217.029	220.387	223.891	227.468	231.045	234.622	239.221
15.0	202.283	205.349	208.926	212.576	216.737	220.387	224.548	228.782	233.016	238.491
17.5	196.297	200.020	204.108	208.269	212.503	216.956	221.774	226.592	231.483	237.761
20.0	190.895	195.056	199.728	204.035	208.780	213.963	219.000	224.402	229.877	236.958
22.5	185.785	190.311	195.056	199.947	205.203	210.532	216.299	222.285	228.344	236.155
25.0	179.361	183.595	188.194	193.012	198.195	203.524	209.291	215.569	221.993	230.461

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CANDELA TABULATION - (Cont.)

27.5	171.623	175.930	180.602	185.566	190.822	196.516	202.356	208.926	215.569	224.548
30.0	164.104	168.630	173.302	178.485	183.741	189.581	195.494	202.283	209.218	218.635
32.5	157.096	161.622	166.367	171.550	176.952	182.792	188.851	195.786	202.867	212.649
35.0	150.453	154.906	159.797	164.907	170.382	176.222	182.427	189.289	196.443	206.590
37.5	144.029	148.555	153.446	158.702	163.958	169.798	176.003	182.792	190.092	200.531
40.0	137.897	142.496	147.241	152.351	157.826	163.520	169.652	176.441	183.741	194.326
42.5	132.130	136.656	141.620	146.438	151.767	157.607	163.520	170.163	177.317	188.121
45.0	126.582	131.035	135.707	140.671	145.927	151.475	157.388	163.885	170.966	181.843
47.5	120.304	124.100	128.188	132.568	137.240	142.350	147.825	153.957	160.819	171.769
50.0	111.909	115.559	119.428	123.589	128.115	133.006	138.262	144.029	150.672	161.695
52.5	103.806	107.237	110.960	114.829	119.136	123.808	128.772	134.247	140.598	151.548
55.0	95.922	99.134	102.638	106.288	110.376	114.683	119.355	124.465	130.451	141.328
57.5	88.184	91.177	94.462	97.966	101.616	105.631	109.938	114.683	120.304	131.108
60.0	80.738	83.585	86.505	89.717	93.075	96.725	100.667	104.974	110.157	120.815
62.5	73.292	75.920	78.694	81.614	84.680	87.892	91.396	95.338	100.083	110.449
65.0	65.992	68.474	71.029	73.657	76.358	79.205	82.271	85.702	89.936	100.083
67.5	58.838	61.247	63.437	65.773	68.109	70.591	73.219	76.066	79.789	89.644
70.0	51.830	54.166	56.137	58.181	60.298	62.634	64.970	67.598	70.956	80.884
72.5	45.041	47.158	48.910	50.808	52.633	54.677	56.794	59.130	62.050	72.124
75.0	38.398	40.296	41.829	43.435	45.041	46.793	48.545	50.589	53.217	63.729
77.5	31.828	33.434	34.748	36.135	37.449	38.909	40.442	42.121	44.311	54.823
80.0	25.331	26.718	27.740	28.835	29.930	31.098	32.339	33.726	35.478	45.844
82.5	18.980	19.929	20.732	21.608	22.411	23.287	24.309	25.258	26.572	36.938
85.0	12.629	13.359	13.870	14.381	14.892	15.549	16.133	16.790	17.739	28.032
87.5	6.278	6.643	6.862	7.154	7.519	7.738	8.030	8.395	8.833	19.126
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.220
92.5	6.278	6.643	6.643	7.008	7.373	7.665	8.030	8.395	8.833	19.126
95.0	12.629	13.359	13.870	14.381	14.673	15.403	16.060	16.790	17.739	28.032
97.5	18.980	19.929	20.732	21.608	22.411	23.068	24.163	25.258	26.572	36.938
100.0	25.331	26.718	27.740	28.835	29.930	30.879	32.266	33.653	35.478	45.844
102.5	31.828	33.434	34.748	36.135	37.449	38.909	40.296	42.121	44.311	54.750
105.0	38.398	40.296	41.829	43.435	45.041	46.793	48.399	50.516	53.217	63.656
107.5	45.041	47.158	48.910	50.808	52.633	54.677	56.575	59.057	62.050	72.051
110.0	51.830	54.166	56.137	58.181	60.298	62.634	64.751	67.525	70.956	80.811
112.5	58.838	61.247	63.437	65.773	68.109	70.591	72.927	75.993	79.789	89.571
115.0	65.992	68.474	71.029	73.657	76.358	79.205	81.979	85.629	89.936	100.010
117.5	73.292	75.920	78.694	81.614	84.680	87.892	91.104	95.192	100.083	110.376
120.0	80.738	83.585	86.505	89.717	93.075	96.725	100.302	104.901	110.157	120.742
122.5	88.184	91.177	94.462	97.966	101.616	105.631	109.573	114.610	120.304	131.035
125.0	95.922	99.134	102.638	106.288	110.376	114.683	119.355	124.319	130.451	141.182
127.5	103.806	107.237	110.960	114.829	119.136	123.808	128.772	134.101	140.598	151.402
130.0	111.909	115.559	119.428	123.589	128.115	133.006	138.262	143.956	150.672	161.549
132.5	120.304	124.100	128.188	132.568	137.240	142.350	147.825	153.811	160.819	171.696
135.0	126.582	131.035	135.707	140.671	145.927	151.475	157.388	163.812	170.966	181.770
137.5	132.130	136.656	141.620	146.438	151.767	157.607	163.520	170.090	177.317	188.048
140.0	137.897	142.496	147.241	152.351	157.826	163.520	169.652	176.368	183.741	194.253
142.5	144.029	148.555	153.446	158.702	163.958	169.798	176.003	182.792	190.092	200.458
145.0	150.453	154.906	159.797	164.907	170.382	176.222	182.427	189.216	196.443	206.517
147.5	157.096	161.622	166.367	171.550	176.952	182.792	188.632	195.713	202.867	212.576
150.0	164.104	168.630	173.302	178.485	183.741	189.581	195.275	202.283	209.218	218.562
152.5	171.623	175.930	180.602	185.566	190.822	196.516	202.137	208.853	215.569	224.475
155.0	179.361	183.595	188.194	193.012	198.195	203.524	209.145	215.569	221.993	230.388
157.5	185.785	190.311	195.056	199.947	205.203	210.532	216.226	222.285	228.344	236.155
160.0	190.895	195.056	199.728	204.035	208.780	213.963	218.927	224.402	229.877	236.958
162.5	196.297	200.020	204.108	208.269	212.503	216.956	221.774	226.592	231.483	237.761
165.0	202.283	205.349	208.926	212.576	216.737	220.387	224.548	228.782	233.016	238.491

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CANDELA TABULATION - (Cont.)

167.5	207.977	210.897	213.963	217.029	220.387	223.891	227.395	231.045	234.622	239.221
170.0	214.182	216.664	219.584	221.847	224.621	227.468	230.315	233.235	236.155	239.878
172.5	220.971	222.650	224.694	226.811	229.001	231.118	233.308	235.571	237.761	240.608
175.0	227.687	229.074	230.461	231.921	233.308	234.768	236.301	237.761	239.294	241.192
177.5	235.060	235.717	236.374	237.104	237.907	238.637	239.367	240.170	240.900	241.849
180.0	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360

Vert. Angles	Horizontal Angles									
	275.0	277.5	280.0	282.5	285.0	287.5	290.0	292.5	295.0	297.5
0.0	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433
2.5	242.871	243.820	244.769	245.718	246.667	247.616	248.565	249.514	250.463	251.339
5.0	243.163	245.061	246.959	248.857	250.755	252.653	254.551	256.376	258.201	259.953
7.5	243.455	246.302	249.149	251.996	254.770	257.544	260.464	263.749	266.961	270.100
10.0	243.674	247.397	251.120	254.843	258.712	263.165	267.545	271.852	276.159	280.320
12.5	243.893	248.492	253.091	258.055	263.530	269.005	274.407	279.736	285.211	290.832
15.0	243.966	249.441	255.062	261.632	268.129	274.626	281.123	287.912	294.701	301.344
17.5	244.039	250.390	257.471	265.063	272.509	280.174	288.131	296.015	303.899	311.929
20.0	244.039	251.266	259.734	268.275	276.816	285.868	294.920	303.826	313.316	322.587
22.5	244.039	252.507	261.924	271.341	281.269	291.343	301.417	312.002	322.514	332.953
25.0	239.002	248.711	259.223	270.027	281.561	293.168	305.432	317.915	330.471	343.027
27.5	233.673	244.477	255.719	267.618	280.028	292.803	306.162	319.594	333.245	346.823
30.0	228.198	239.951	252.069	264.917	278.714	292.073	306.235	320.762	335.362	350.108
32.5	222.869	235.279	248.054	261.778	276.013	290.832	305.943	321.346	336.968	352.736
35.0	217.540	230.388	244.039	258.347	273.531	289.810	305.140	321.419	337.990	354.707
37.5	211.992	225.351	239.732	254.624	270.684	287.036	303.899	321.054	339.450	355.948
40.0	206.298	220.095	235.133	250.828	267.326	284.554	302.074	320.105	338.282	356.605
42.5	200.604	214.693	230.315	246.594	263.603	281.561	299.884	318.718	337.406	356.386
45.0	194.691	209.218	225.205	242.068	259.734	278.130	297.183	316.455	335.873	355.510
47.5	185.201	200.385	216.956	234.768	253.529	272.947	293.095	313.462	333.756	354.926
50.0	175.346	190.968	207.977	226.300	245.718	265.866	286.598	307.695	328.938	350.400
52.5	165.418	181.405	198.852	217.613	237.615	258.420	279.736	301.417	323.390	345.655
55.0	155.417	171.696	189.581	208.707	229.147	250.536	272.436	294.774	317.404	340.472
57.5	145.343	161.841	180.018	199.582	220.387	242.287	264.771	287.693	310.980	334.778
60.0	135.123	151.767	170.309	190.238	211.408	233.673	256.668	280.101	304.118	328.646
62.5	124.757	141.620	160.308	180.602	202.137	224.767	248.127	272.144	296.672	322.003
65.0	114.318	131.254	150.161	170.674	192.501	215.496	239.294	263.749	288.861	314.922
67.5	103.806	120.742	139.795	160.454	182.573	205.860	230.023	254.916	280.612	307.257
70.0	95.119	112.201	131.400	152.132	174.397	197.757	221.920	246.886	272.728	299.373
72.5	86.359	103.660	123.005	144.175	166.732	190.457	215.058	240.389	266.815	293.971
75.0	77.599	94.900	114.537	135.926	158.775	182.792	207.685	233.454	260.318	287.985
77.5	68.766	86.140	105.923	127.531	150.599	174.762	199.947	226.008	253.310	281.488
80.0	60.225	77.234	97.090	118.844	142.131	166.513	191.844	218.197	245.791	274.334
82.5	51.027	68.693	88.841	110.011	133.371	157.826	183.376	209.875	237.761	266.523
85.0	41.902	59.276	79.351	101.324	124.830	149.431	175.127	201.991	229.001	258.128
87.5	32.631	49.932	69.788	91.761	115.121	139.576	165.199	191.917	220.095	249.441
90.0	23.506	40.588	60.298	82.125	105.339	129.721	155.271	181.916	210.021	239.367
92.5	32.631	49.859	69.642	91.542	114.756	139.576	165.199	191.917	220.095	249.441
95.0	41.829	59.130	79.059	101.324	124.830	149.431	175.127	201.991	229.001	258.128
97.5	50.954	68.474	88.841	110.011	133.371	157.826	183.376	209.875	237.761	266.523
100.0	60.079	76.942	97.090	118.844	142.131	166.513	191.844	218.197	245.791	274.334
102.5	68.620	86.140	105.923	127.531	150.599	174.762	199.947	226.008	253.310	281.488
105.0	77.380	94.900	114.537	135.926	158.775	182.792	207.685	233.454	260.318	287.985
107.5	86.140	103.660	123.005	144.175	166.732	190.457	215.058	240.389	266.815	293.971
110.0	94.900	112.201	131.400	152.132	174.397	197.757	221.920	246.886	272.728	299.373
112.5	103.514	120.742	139.795	160.454	182.573	205.860	230.023	254.916	280.612	307.111

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CANDELA TABULATION - (Cont.)

115.0	113.953	131.254	150.161	170.674	192.501	215.496	239.294	263.749	288.861	314.922
117.5	124.392	141.620	160.308	180.602	202.137	224.767	248.127	272.144	296.672	322.003
120.0	134.685	151.767	170.309	190.238	211.408	233.673	256.668	280.101	304.118	328.646
122.5	144.905	161.841	180.018	199.582	220.387	242.287	264.771	287.693	310.980	334.778
125.0	155.417	171.696	189.581	208.707	229.147	250.536	272.436	294.774	317.404	340.472
127.5	165.418	181.405	198.852	217.613	237.615	258.420	279.736	301.417	323.390	345.655
130.0	175.346	190.968	207.977	226.300	245.718	265.866	286.598	307.695	328.938	350.400
132.5	185.201	200.385	216.956	234.768	253.529	272.947	293.095	313.462	333.756	354.926
135.0	194.691	209.218	225.205	242.068	259.734	278.130	297.183	316.455	335.873	355.510
137.5	200.604	214.693	230.315	246.594	263.603	281.561	299.884	318.718	337.406	356.386
140.0	206.298	220.095	235.133	250.828	267.326	284.554	302.074	320.105	338.282	356.605
142.5	211.992	225.351	239.732	254.624	270.684	287.036	303.899	321.054	339.450	355.948
145.0	217.540	230.388	244.039	258.347	273.531	289.810	305.140	321.419	337.990	354.707
147.5	222.650	235.279	248.054	261.778	276.013	290.832	305.943	321.346	336.968	352.736
150.0	227.906	239.951	252.069	264.917	278.714	292.073	306.235	320.762	335.362	350.108
152.5	233.381	244.477	255.719	267.618	280.028	292.803	306.162	319.594	333.245	346.823
155.0	238.783	248.711	259.223	270.027	281.561	293.168	305.432	317.915	330.471	342.954
157.5	243.966	252.507	261.924	271.341	281.269	291.343	301.417	312.002	322.514	332.953
160.0	243.966	251.266	259.734	268.275	276.816	285.868	294.920	303.826	313.316	322.587
162.5	244.039	250.390	257.471	265.063	272.509	280.174	288.131	296.015	303.899	311.929
165.0	243.893	249.441	255.062	261.632	268.129	274.626	281.123	287.912	294.701	301.344
167.5	243.820	248.492	253.091	258.055	263.530	269.005	274.407	279.736	285.211	290.832
170.0	243.601	247.324	251.120	254.843	258.712	263.165	267.545	271.852	276.159	280.320
172.5	243.455	246.229	249.149	251.996	254.770	257.544	260.464	263.749	266.961	270.100
175.0	243.090	244.988	246.886	248.857	250.755	252.653	254.551	256.376	258.201	259.953
177.5	242.798	243.820	244.769	245.718	246.667	247.616	248.565	249.514	250.463	251.339
180.0	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360

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	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433
2.5	252.215	253.091	253.894	254.770	255.573	256.303	257.106	257.836	258.493	259.150
5.0	261.778	263.822	265.793	267.764	269.662	271.487	273.312	275.064	276.670	278.276
7.5	273.239	276.305	279.298	282.218	285.065	287.912	290.759	293.606	296.234	298.716
10.0	284.700	288.861	293.095	297.256	301.344	305.286	309.082	312.732	316.382	319.959
12.5	296.380	301.782	307.111	312.367	317.696	322.879	327.843	332.734	337.406	341.859
15.0	308.644	314.703	321.419	327.989	334.413	340.618	346.823	352.809	358.576	364.197
17.5	320.032	327.916	336.530	343.538	351.130	358.503	365.803	372.811	379.673	386.243
20.0	331.785	340.910	349.889	358.795	367.482	376.023	384.345	392.448	400.332	407.778
22.5	343.319	353.539	363.613	373.614	383.469	393.251	402.376	411.428	420.261	428.656
25.0	354.415	365.803	377.045	389.163	398.872	409.457	419.823	429.678	439.241	448.512
27.5	360.620	374.490	388.287	401.865	413.764	425.152	436.321	448.220	457.272	467.273
30.0	364.927	379.819	394.711	409.530	424.130	438.657	451.870	463.258	474.354	484.793
32.5	368.577	384.418	400.478	415.954	431.576	446.687	461.725	476.325	490.122	501.364
35.0	371.497	388.214	404.931	421.429	437.708	453.841	469.609	485.231	500.269	515.161
37.5	373.614	391.134	408.654	425.882	443.037	459.973	476.617	492.823	508.737	524.067
40.0	374.855	393.251	411.428	429.532	447.490	465.156	482.530	499.320	515.745	531.513
42.5	375.439	394.492	413.545	432.379	451.286	469.463	487.348	504.868	521.658	538.886
45.0	375.220	395.076	414.786	434.423	453.768	472.675	491.363	509.321	526.914	543.777
47.5	374.344	394.857	415.370	435.591	455.593	475.230	494.356	513.190	531.586	549.033
50.0	372.154	393.908	415.078	436.029	456.615	476.982	496.984	516.475	535.455	554.654
52.5	368.212	390.842	413.107	435.226	456.980	479.099	498.955	519.322	539.908	558.523
55.0	363.832	387.119	410.260	434.058	456.323	478.442	500.488	521.877	542.901	563.049
57.5	359.525	382.958	406.902	430.846	454.571	478.077	501.145	523.848	546.040	567.648
60.0	353.539	378.359	403.106	427.999	452.819	477.347	501.583	525.381	548.960	571.955

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CANDELA TABULATION - (Cont.)

62.5	347.626	373.176	399.164	424.787	450.629	476.252	501.656	526.841	551.734	576.043
65.0	341.202	367.482	394.200	421.064	448.001	474.792	501.437	528.155	554.362	580.131
67.5	334.194	361.277	388.944	416.903	444.935	472.967	500.999	529.104	556.698	583.635
70.0	326.675	354.561	383.177	412.231	441.285	470.558	500.123	529.615	558.523	586.847
72.5	321.565	349.597	378.432	407.705	437.197	467.565	499.758	529.469	559.837	589.475
75.0	316.163	344.998	374.563	404.493	434.861	465.886	497.349	528.958	560.275	591.300
77.5	310.177	339.596	369.818	400.405	431.649	463.550	496.108	528.301	560.494	592.395
80.0	303.534	333.537	364.270	395.514	427.415	460.119	493.261	526.403	559.472	592.249
82.5	296.161	326.675	357.846	389.601	422.232	455.520	489.319	523.118	556.917	590.424
85.0	288.131	318.937	350.546	382.739	415.881	449.753	484.063	518.373	552.829	586.920
87.5	279.736	310.834	342.735	375.366	409.019	443.329	478.150	512.971	548.084	582.540
90.0	269.808	301.052	333.026	365.803	399.675	434.204	469.244	504.284	539.689	574.291
92.5	279.736	310.834	342.735	375.366	409.019	443.329	478.150	512.971	548.084	582.540
95.0	288.131	318.937	350.546	382.739	415.881	449.753	484.063	518.373	552.829	586.920
97.5	296.161	326.675	357.846	389.601	422.232	455.520	489.319	523.118	556.917	590.424
100.0	303.534	333.537	364.270	395.368	427.415	460.119	493.261	526.403	559.472	592.249
102.5	310.177	339.596	369.818	400.405	431.649	463.550	495.889	528.301	560.494	592.395
105.0	316.163	344.998	374.563	404.493	434.861	465.813	497.349	528.958	560.275	591.300
107.5	321.492	349.597	378.432	407.705	437.197	467.565	499.758	529.396	559.837	589.475
110.0	326.675	354.561	383.177	412.231	441.285	470.558	500.123	529.615	558.523	586.847
112.5	334.194	361.277	388.944	416.611	444.935	472.967	500.999	529.104	556.698	583.635
115.0	341.202	367.482	394.200	421.064	448.001	474.792	501.437	528.155	554.362	579.985
117.5	347.626	373.176	398.872	424.787	450.629	476.252	501.656	526.841	551.734	576.043
120.0	353.539	378.359	403.106	427.999	452.819	477.347	501.583	525.381	548.960	571.955
122.5	359.525	382.958	406.902	430.846	454.571	478.077	501.145	523.848	546.040	567.648
125.0	363.832	387.119	410.260	434.058	455.958	478.442	500.488	521.877	542.755	563.049
127.5	368.212	390.842	413.107	435.226	456.834	479.099	498.955	519.322	539.762	558.523
130.0	372.154	393.908	415.078	436.029	456.615	476.982	496.984	516.475	535.236	554.654
132.5	374.344	394.857	415.370	435.591	455.593	475.230	494.356	513.190	531.367	549.033
135.0	375.220	395.076	414.786	434.423	453.622	472.675	491.363	509.321	526.914	543.777
137.5	375.439	394.492	413.545	432.379	451.067	469.463	487.348	504.868	521.658	538.886
140.0	374.855	393.251	411.428	429.532	447.490	465.156	482.530	499.320	515.745	531.513
142.5	373.614	391.134	408.654	425.882	443.037	459.973	476.617	492.458	508.737	523.921
145.0	371.497	388.214	404.931	421.429	437.708	453.841	469.609	485.231	500.269	515.161
147.5	368.577	384.418	400.259	415.954	431.576	446.687	461.725	476.325	490.122	501.364
150.0	364.927	379.819	394.711	409.530	424.130	438.657	451.870	463.258	474.354	484.793
152.5	360.620	374.490	388.287	401.792	413.764	425.152	436.321	448.220	457.272	467.127
155.0	354.415	365.803	377.045	389.163	398.872	409.457	419.823	429.678	439.241	448.512
157.5	343.319	353.539	363.613	373.614	383.469	393.251	402.376	411.428	420.115	428.656
160.0	331.785	340.910	349.889	358.795	367.482	376.023	384.345	392.448	400.332	407.778
162.5	320.032	327.916	336.530	343.538	351.130	358.503	365.730	372.811	379.673	386.243
165.0	308.644	314.703	321.419	327.989	334.413	340.618	346.823	352.809	358.576	364.197
167.5	296.380	301.782	307.111	312.294	317.696	322.879	327.843	332.734	337.406	341.859
170.0	284.700	288.861	293.095	297.256	301.344	305.213	309.082	312.732	316.382	319.959
172.5	273.239	276.305	279.298	282.218	285.065	287.912	290.759	293.533	296.234	298.716
175.0	261.778	263.822	265.793	267.764	269.662	271.487	273.312	275.064	276.670	278.276
177.5	252.215	253.091	253.894	254.770	255.573	256.303	257.106	257.836	258.493	259.150
180.0	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360

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	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433	242.433
2.5	259.807	260.391	260.975	261.486	261.997	262.508	262.873	263.311	264.406	264.479
5.0	279.809	281.196	282.583	283.824	285.065	286.160	287.182	288.058	288.861	289.591
7.5	301.198	303.461	305.651	307.695	309.666	311.418	313.170	314.557	315.871	317.112

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CANDELA TABULATION - (Cont.)

10.0	323.390	326.602	329.741	332.588	335.289	337.844	340.107	342.224	344.122	345.801
12.5	346.239	350.473	354.488	358.211	361.788	365.073	368.139	370.913	373.395	375.658
15.0	369.526	374.636	379.527	384.126	388.506	392.594	396.390	399.821	402.887	405.661
17.5	392.594	398.653	404.420	409.822	415.005	419.604	424.057	428.072	431.795	435.080
20.0	415.005	421.940	428.510	434.642	440.409	445.738	450.775	455.374	459.608	463.331
22.5	436.613	444.351	451.505	458.440	464.864	470.777	476.325	481.508	486.253	490.487
25.0	457.272	465.521	473.478	480.997	488.151	494.648	500.780	506.401	511.657	516.329
27.5	476.690	485.669	494.210	502.313	510.051	517.205	523.848	529.761	535.382	540.492
30.0	494.867	505.306	513.628	522.242	530.418	538.083	544.872	551.150	556.990	562.392
32.5	512.095	522.169	531.805	540.565	549.033	556.917	564.071	570.568	576.627	582.175
35.0	527.790	538.156	548.084	557.209	565.677	573.780	581.299	588.015	594.293	600.060
37.5	539.689	552.610	562.611	572.174	580.934	589.183	596.994	604.002	610.426	616.266
40.0	546.697	561.443	575.386	585.825	594.877	603.345	611.375	618.602	625.172	631.158
42.5	553.705	569.035	583.562	597.432	607.871	616.485	624.588	632.107	638.896	645.101
45.0	560.202	575.970	591.081	605.389	619.040	628.822	637.217	645.539	652.109	658.533
47.5	566.188	582.467	598.089	612.981	627.143	640.502	649.627	657.803	665.249	671.892
50.0	571.736	588.818	605.170	620.719	635.538	649.481	662.110	670.651	678.389	685.397
52.5	577.211	595.169	612.397	628.822	644.298	658.898	672.622	683.864	692.040	699.194
55.0	582.759	601.739	619.916	637.217	653.496	668.899	683.207	696.347	705.764	713.283
57.5	588.453	608.528	627.654	645.904	663.132	679.265	694.741	707.808	719.707	727.591
60.0	594.147	615.390	635.611	654.883	673.060	689.996	705.472	719.780	732.555	742.410
62.5	599.549	622.179	643.641	664.081	683.207	700.946	717.371	732.336	745.768	757.886
65.0	604.805	628.603	651.598	673.279	693.427	712.261	729.489	745.184	759.565	772.486
67.5	609.769	635.027	659.263	682.112	703.720	723.430	741.534	758.251	773.435	787.305
70.0	614.441	642.035	666.490	690.653	713.210	734.088	753.287	770.807	786.940	801.175
72.5	618.529	646.561	673.206	698.464	721.970	743.870	764.018	782.487	799.058	813.804
75.0	621.887	651.087	678.973	705.180	729.708	752.630	773.727	792.634	809.716	824.900
77.5	624.004	654.737	683.572	710.874	736.424	760.076	781.684	801.321	818.841	833.952
80.0	624.515	655.832	685.908	714.451	741.388	765.916	788.181	809.059	825.995	840.814
82.5	623.420	655.467	686.200	715.473	743.067	768.617	792.050	813.001	830.959	845.997
85.0	620.573	653.204	684.740	714.524	742.702	768.836	792.707	814.315	833.149	848.771
87.5	616.850	650.065	682.185	711.312	740.074	766.646	791.101	813.074	832.346	848.625
90.0	608.966	642.473	675.031	705.691	734.891	761.901	786.794	809.059	828.915	845.924
92.5	616.850	650.065	682.185	711.312	740.074	766.646	791.101	813.074	832.346	848.625
95.0	620.573	653.204	684.667	714.524	742.702	768.836	792.707	814.315	833.149	848.771
97.5	623.420	655.467	686.200	715.473	743.067	768.617	792.050	813.001	830.959	845.997
100.0	624.515	655.832	685.908	714.451	741.388	765.916	788.181	809.059	825.995	840.814
102.5	624.004	654.591	683.572	710.874	736.424	760.003	781.684	801.321	818.841	833.952
105.0	621.814	651.087	678.973	705.180	729.708	752.630	773.727	792.634	809.716	824.900
107.5	618.529	646.561	673.206	698.464	721.970	743.870	764.018	782.487	799.058	813.804
110.0	614.441	642.035	666.490	690.653	713.210	734.088	753.287	770.807	786.940	801.175
112.5	609.769	635.027	659.263	682.112	703.720	723.430	741.534	758.251	773.435	787.232
115.0	604.805	628.603	651.598	673.279	693.427	712.261	729.489	745.184	759.565	772.486
117.5	599.549	622.179	643.641	664.081	683.207	700.946	717.371	732.263	745.768	757.813
120.0	594.147	615.390	635.611	654.883	673.060	689.996	705.472	719.780	732.555	742.410
122.5	588.453	608.528	627.654	645.904	663.132	679.265	694.741	707.808	719.707	727.591
125.0	582.759	601.739	619.916	637.217	653.496	668.899	683.207	696.347	705.764	713.283
127.5	577.211	595.169	612.397	628.822	644.298	658.898	672.622	683.864	692.040	699.194
130.0	571.736	588.818	605.170	620.719	635.538	649.481	662.110	670.651	678.389	685.397
132.5	566.188	582.467	598.089	612.981	627.143	640.502	649.627	657.803	665.249	671.892
135.0	560.202	575.970	591.081	605.389	619.040	628.822	637.217	645.539	652.109	658.533
137.5	553.705	569.035	583.562	597.432	607.871	616.485	624.442	632.107	638.896	645.101
140.0	546.697	561.443	575.386	585.825	594.877	603.345	611.375	618.602	625.172	631.158
142.5	539.689	552.464	562.611	572.174	580.934	589.183	596.994	604.002	610.426	616.266
145.0	527.790	538.156	548.084	557.209	565.677	573.780	581.299	588.015	594.293	600.060
147.5	511.949	522.169	531.805	540.565	548.960	556.917	564.071	570.568	576.627	582.175

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CANDELA TABULATION - (Cont.)

150.0	494.867	505.306	513.628	522.096	530.418	538.083	544.872	551.150	556.990	562.392
152.5	476.690	485.669	494.210	502.313	509.905	517.205	523.702	529.761	535.382	540.492
155.0	457.272	465.521	473.478	480.997	488.151	494.648	500.780	506.401	511.657	516.329
157.5	436.613	444.278	451.505	458.440	464.718	470.777	476.325	481.508	486.253	490.487
160.0	415.005	421.940	428.510	434.642	440.409	445.738	450.775	455.374	459.608	463.331
162.5	392.594	398.653	404.420	409.822	414.859	419.604	424.057	428.072	431.795	435.080
165.0	369.526	374.636	379.527	384.126	388.506	392.594	396.390	399.821	402.887	405.661
167.5	346.239	350.473	354.488	358.211	361.788	365.073	368.139	370.913	373.395	375.658
170.0	323.390	326.602	329.741	332.588	335.289	337.844	340.107	342.224	344.122	345.801
172.5	301.198	303.461	305.651	307.695	309.666	311.418	313.097	314.557	315.871	317.112
175.0	279.809	281.196	282.583	283.824	285.065	286.160	287.182	288.058	288.861	289.591
177.5	259.807	260.391	260.975	261.486	261.997	262.508	262.873	263.311	264.406	264.479
180.0	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360	242.360

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	242.433	242.433	242.433	242.433	242.433
2.5	264.552	264.625	264.698	264.771	264.844
5.0	291.051	291.270	291.416	291.635	291.781
7.5	318.134	319.740	320.032	320.324	320.616
10.0	347.261	349.524	349.962	350.400	350.838
12.5	377.556	379.235	381.206	381.863	382.447
15.0	408.143	410.260	412.742	413.545	414.421
17.5	438.000	440.482	443.475	444.570	445.592
20.0	466.689	469.609	472.967	474.281	475.522
22.5	494.283	497.641	501.510	503.043	504.576
25.0	520.563	524.286	527.498	530.491	532.316
27.5	545.018	549.033	552.683	555.749	557.866
30.0	567.210	571.444	575.240	578.671	581.007
32.5	587.212	591.738	595.680	599.403	601.958
35.0	605.316	609.988	614.149	618.018	620.792
37.5	621.814	626.486	630.720	634.735	637.582
40.0	636.633	641.524	645.904	649.992	652.912
42.5	650.722	655.759	660.212	664.373	667.293
45.0	664.300	669.483	673.936	678.097	681.017
47.5	677.805	682.988	687.514	691.602	694.376
50.0	691.529	696.785	701.238	705.253	707.808
52.5	705.472	710.874	715.327	719.342	721.678
55.0	719.780	725.255	729.781	733.723	735.840
57.5	734.453	740.220	744.819	748.761	750.659
60.0	749.783	755.842	760.733	764.894	766.500
62.5	765.916	772.486	777.669	781.319	783.436
65.0	782.706	789.787	795.189	798.912	800.956
67.5	799.277	806.796	812.490	816.213	818.184
70.0	813.804	822.856	828.550	832.346	834.244
72.5	827.309	837.237	842.931	846.727	848.479
75.0	837.748	848.479	855.414	858.991	860.524
77.5	846.581	857.385	865.415	868.700	870.087
80.0	852.932	863.590	871.328	875.562	877.241
82.5	858.115	866.583	874.175	879.796	881.475
85.0	860.743	869.211	873.956	880.307	882.716
87.5	861.473	870.817	876.146	876.000	881.183
90.0	859.721	870.233	877.460	881.548	879.285
92.5	861.473	870.817	876.146	876.000	881.183
95.0	860.743	869.211	873.956	880.307	882.716

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CANDELA TABULATION - (Cont.)

97.5	858.115	866.583	874.175	879.796	881.475
100.0	852.932	863.590	871.328	875.562	877.241
102.5	846.581	857.385	865.415	868.700	870.087
105.0	837.748	848.479	855.414	858.991	860.524
107.5	827.309	837.237	842.931	846.727	848.479
110.0	813.804	822.856	828.550	832.346	834.244
112.5	799.277	806.796	812.490	816.213	818.184
115.0	782.706	789.787	795.189	798.912	800.956
117.5	765.916	772.486	777.669	781.319	783.436
120.0	749.783	755.842	760.733	764.894	766.500
122.5	734.453	740.220	744.819	748.761	750.659
125.0	719.780	725.255	729.781	733.723	735.840
127.5	705.472	710.874	715.327	719.342	721.678
130.0	691.529	696.785	701.238	705.253	707.808
132.5	677.805	682.988	687.514	691.602	694.376
135.0	664.300	669.410	673.936	678.097	681.017
137.5	650.722	655.759	660.212	664.373	667.293
140.0	636.633	641.524	645.904	649.992	652.912
142.5	621.668	626.486	630.720	634.735	637.582
145.0	605.316	609.988	614.149	618.018	620.792
147.5	587.212	591.738	595.680	599.403	601.958
150.0	567.210	571.444	575.240	578.671	581.007
152.5	545.018	549.033	552.537	555.749	557.866
155.0	520.563	524.286	527.498	530.491	532.316
157.5	494.283	497.641	501.510	503.043	504.576
160.0	466.689	469.609	472.967	474.281	475.522
162.5	438.000	440.482	443.475	444.570	445.592
165.0	408.143	410.260	412.742	413.545	414.421
167.5	377.556	379.235	381.206	381.863	382.447
170.0	347.261	349.524	349.962	350.400	350.838
172.5	318.134	319.740	320.032	320.324	320.616
175.0	291.051	291.270	291.416	291.635	291.781
177.5	264.552	264.625	264.698	264.771	264.844
180.0	242.360	242.360	242.360	242.360	242.360

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	97.56	N.A.	2.90
0-30	226.28	N.A.	6.80
0-40	405.77	N.A.	12.20
0-60	872.71	N.A.	26.20
0-80	1405.23	N.A.	42.10
0-90	1668.59	N.A.	50.00
10-90	1645.03	N.A.	49.30
20-40	308.21	N.A.	9.20
20-50	528.42	N.A.	15.80
40-70	729.51	N.A.	21.90
60-80	532.52	N.A.	16.00
70-80	269.95	N.A.	8.10
80-90	263.36	N.A.	7.90
90-110	533.31	N.A.	16.00
90-120	795.88	N.A.	23.80
90-130	1042.61	N.A.	31.20
90-150	1442.31	N.A.	43.20
90-180	1668.59	N.A.	50.00
110-180	1135.28	N.A.	34.00
0-180	3337.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	23.57
10-20	73.99
20-30	128.72
30-40	179.49
40-50	220.21
50-60	246.73
60-70	262.57
70-80	269.95
80-90	263.36
90-100	263.36
100-110	269.95
110-120	262.57
120-130	246.73
130-140	220.21
140-150	179.49
150-160	128.72
160-170	73.99
170-180	23.57

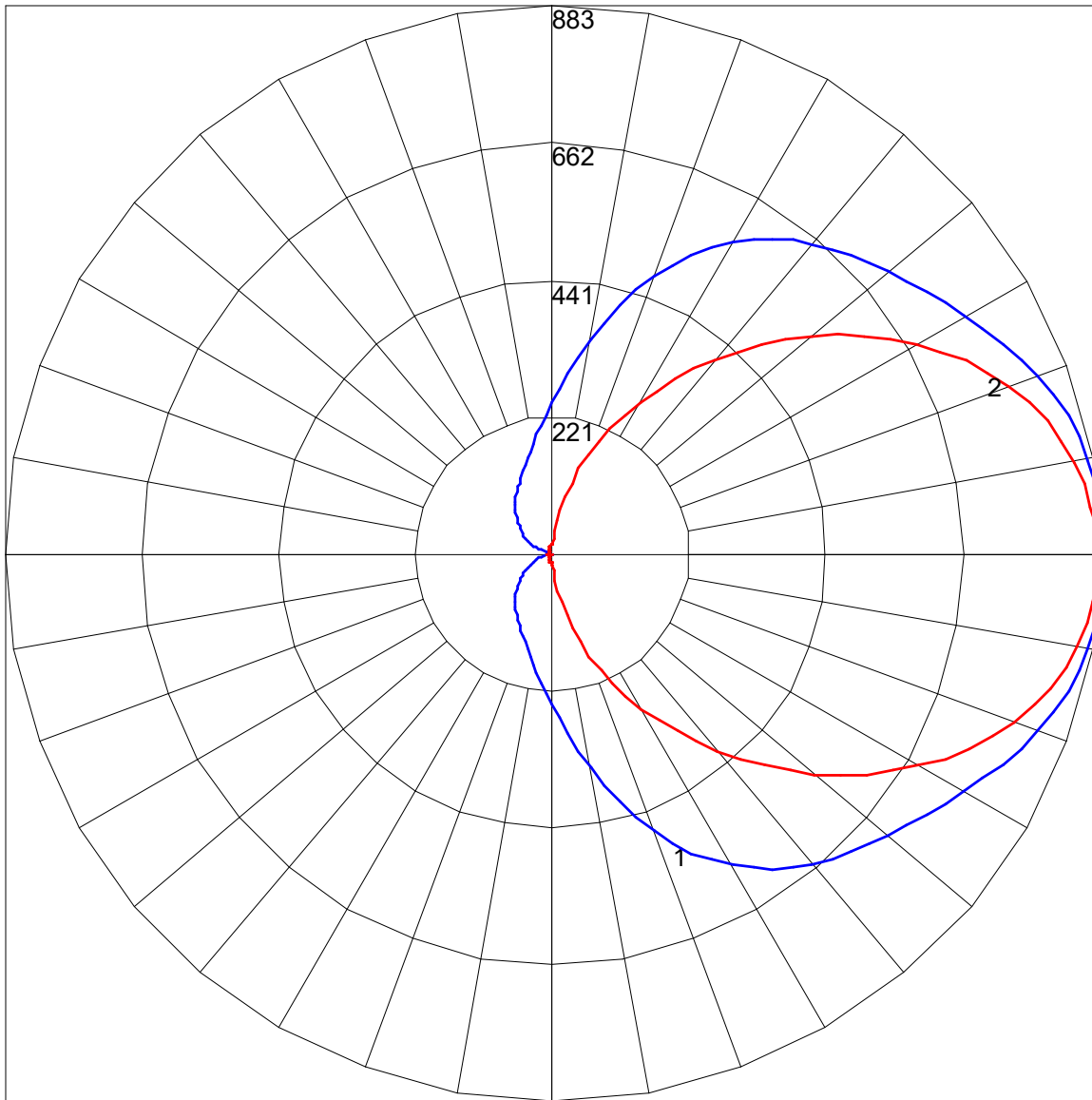
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	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	44	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 = 882.716 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.)