



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P4040-TU-SO-FWA-D9 ONLY.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE]

[MANUFAC] Prudential Ltg

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2837
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	29
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	3.88 ft (Diameter)
Luminous Width (90-270)	3.88 ft (Diameter)
Luminous Height	0.50 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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>
90.0	13.294	17.018	20.743	24.468	28.193	31.918	35.643	39.368	43.093	46.818
92.5	24.546	28.858	33.171	37.484	41.796	46.109	50.421	54.734	59.046	63.359
95.0	48.894	52.424	55.954	59.485	63.015	66.545	70.076	73.606	77.136	80.666
97.5	75.586	78.386	81.187	83.988	86.789	89.589	92.390	95.191	97.992	100.792
100.0	99.412	102.066	104.720	107.374	110.027	112.681	115.335	117.989	120.642	123.296
102.5	130.117	132.101	134.084	136.068	138.052	140.035	142.019	144.002	145.986	147.970
105.0	156.855	158.903	160.951	162.999	165.047	167.096	169.144	171.192	173.240	175.288
107.5	186.853	188.620	190.387	192.154	193.921	195.688	197.455	199.222	200.989	202.756
110.0	220.806	222.238	223.670	225.102	226.534	227.966	229.398	230.830	232.262	233.694
112.5	251.476	253.182	254.887	256.592	258.297	260.002	261.708	263.413	265.118	266.823
115.0	285.778	287.190	288.603	290.016	291.428	292.841	294.253	295.666	297.078	298.491
117.5	322.399	323.421	324.443	325.465	326.487	327.509	328.531	329.554	330.576	331.598
120.0	353.812	355.414	357.016	358.618	360.220	361.822	363.424	365.026	366.628	368.230
122.5	387.452	389.569	391.687	393.804	395.922	398.040	400.158	402.275	404.393	406.510
125.0	427.321	428.916	430.512	432.108	433.703	435.299	436.895	438.490	440.086	441.682
127.5	463.942	465.110	466.278	467.445	468.613	469.781	470.948	472.116	473.284	474.452
130.0	502.315	502.887	503.459	504.032	504.604	505.176	505.748	506.321	506.893	507.465
132.5	532.869	534.040	535.210	536.380	537.550	538.721	539.891	541.061	542.232	543.402
135.0	568.238	569.624	571.011	572.398	573.785	575.172	576.559	577.946	579.332	580.719
137.5	604.615	606.160	607.706	609.251	610.797	612.342	613.888	615.433	616.978	618.524
140.0	641.480	643.045	644.610	646.174	647.739	649.304	650.868	652.433	653.998	655.562
142.5	679.621	680.805	681.990	683.174	684.359	685.543	686.728	687.912	689.097	690.281
145.0	713.922	714.894	715.866	716.838	717.809	718.781	719.753	720.725	721.696	722.668
147.5	742.829	743.758	744.688	745.617	746.546	747.476	748.405	749.334	750.264	751.193
150.0	772.119	772.637	773.156	773.674	774.192	774.710	775.228	775.746	776.264	776.782
152.5	797.372	798.005	798.638	799.271	799.904	800.537	801.170	801.802	802.435	803.068
155.0	822.046	822.793	823.541	824.288	825.036	825.783	826.531	827.278	828.026	828.774
157.5	847.693	848.345	848.998	849.650	850.302	850.954	851.606	852.258	852.911	853.563
160.0	870.545	871.025	871.504	871.984	872.463	872.942	873.422	873.902	874.381	874.860
162.5	891.472	891.831	892.191	892.550	892.910	893.270	893.629	893.989	894.348	894.708
165.0	910.333	910.547	910.761	910.975	911.189	911.403	911.617	911.831	912.045	912.259
167.5	926.550	926.687	926.823	926.960	927.096	927.233	927.370	927.506	927.643	927.780
170.0	939.368	939.524	939.680	939.836	939.992	940.148	940.304	940.460	940.616	940.772
172.5	949.866	950.030	950.193	950.357	950.521	950.684	950.848	951.012	951.176	951.339
175.0	956.791	956.946	957.100	957.255	957.410	957.564	957.719	957.874	958.028	958.183
177.5	961.826	961.925	962.024	962.123	962.222	962.322	962.421	962.520	962.620	962.719
180.0	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600

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>
90.0	50.625	54.432	58.240	62.047	65.854	69.662	73.469	77.277	81.084	82.613
92.5	69.327	75.294	81.262	87.230	93.197	99.164	105.132	111.100	117.067	121.345
95.0	87.022	93.378	99.733	106.088	112.444	118.800	125.155	131.510	137.866	142.896
97.5	107.251	113.710	120.168	126.627	133.086	139.544	146.003	152.461	158.920	164.164
100.0	129.805	136.314	142.823	149.332	155.841	162.350	168.859	175.368	181.876	187.185
102.5	154.388	160.807	167.226	173.644	180.063	186.482	192.900	199.319	205.738	211.174
105.0	181.476	187.664	193.852	200.040	206.227	212.415	218.603	224.791	230.979	236.497
107.5	208.876	214.996	221.115	227.235	233.355	239.474	245.594	251.714	257.833	263.306
110.0	239.577	245.461	251.345	257.229	263.112	268.996	274.880	280.764	286.648	292.026
112.5	272.104	277.384	282.665	287.946	293.226	298.507	303.787	309.068	314.348	319.714
115.0	303.560	308.630	313.699	318.768	323.837	328.906	333.976	339.045	344.114	349.538
117.5	336.538	341.478	346.418	351.359	356.299	361.240	366.180	371.120	376.060	381.326
120.0	372.912	377.593	382.274	386.955	391.637	396.318	400.999	405.680	410.362	415.282

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CANDELA TABULATION - (Cont.)

122.5	410.688	414.865	419.042	423.220	427.397	431.574	435.752	439.929	444.106	448.852
125.0	445.806	449.930	454.055	458.179	462.304	466.428	470.553	474.677	478.802	483.273
127.5	478.996	483.541	488.086	492.630	497.175	501.719	506.264	510.808	515.353	519.399
130.0	512.490	517.516	522.541	527.567	532.592	537.618	542.643	547.668	552.694	556.261
132.5	548.496	553.589	558.683	563.777	568.870	573.964	579.058	584.152	589.245	592.480
135.0	585.305	589.891	594.477	599.063	603.648	608.234	612.820	617.406	621.992	625.040
137.5	622.403	626.283	630.162	634.042	637.921	641.801	645.680	649.560	653.440	656.514
140.0	658.576	661.589	664.603	667.616	670.630	673.643	676.656	679.670	682.683	685.871
142.5	692.773	695.264	697.756	700.247	702.738	705.230	707.721	710.212	712.704	715.760
145.0	724.760	726.852	728.944	731.036	733.128	735.220	737.312	739.403	741.495	744.434
147.5	753.244	755.294	757.345	759.395	761.446	763.496	765.547	767.598	769.648	772.246
150.0	779.028	781.273	783.518	785.763	788.009	790.254	792.499	794.744	796.990	799.354
152.5	805.183	807.298	809.413	811.528	813.643	815.758	817.874	819.988	822.104	824.153
155.0	830.564	832.354	834.144	835.935	837.725	839.515	841.306	843.096	844.886	846.732
157.5	855.050	856.538	858.025	859.512	861.000	862.487	863.974	865.462	866.949	868.435
160.0	876.170	877.480	878.789	880.098	881.408	882.718	884.027	885.336	886.646	887.887
162.5	895.833	896.958	898.084	899.209	900.334	901.459	902.584	903.710	904.835	905.794
165.0	913.138	914.017	914.896	915.775	916.654	917.533	918.412	919.291	920.170	920.853
167.5	928.392	929.004	929.616	930.228	930.841	931.453	932.065	932.677	933.290	933.818
170.0	941.168	941.566	941.962	942.360	942.756	943.154	943.550	943.948	944.344	944.736
172.5	951.522	951.705	951.888	952.071	952.254	952.437	952.620	952.803	952.986	953.337
175.0	958.339	958.495	958.651	958.807	958.963	959.119	959.275	959.431	959.587	959.710
177.5	962.730	962.742	962.754	962.765	962.777	962.788	962.800	962.812	962.823	962.962
180.0	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600

**Vert.
Angles**

Horizontal Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
90.0	84.141	85.670	87.198	88.727	90.256	91.784	93.313	94.842	94.538	94.233
92.5	125.623	129.901	134.178	138.456	142.734	147.012	151.290	155.568	156.653	157.738
95.0	147.927	152.958	157.988	163.019	168.049	173.080	178.110	183.141	184.801	186.461
97.5	169.409	174.654	179.898	185.142	190.387	195.632	200.876	206.120	207.874	209.629
100.0	192.494	197.803	203.112	208.421	213.730	219.039	224.348	229.657	231.464	233.271
102.5	216.611	222.047	227.484	232.920	238.357	243.793	249.230	254.666	256.702	258.737
105.0	242.015	247.532	253.050	258.568	264.086	269.603	275.121	280.639	282.553	284.467
107.5	268.778	274.251	279.724	285.196	290.669	296.142	301.614	307.087	308.993	310.899
110.0	297.405	302.783	308.162	313.540	318.919	324.297	329.676	335.054	336.952	338.849
112.5	325.080	330.445	335.811	341.177	346.542	351.908	357.274	362.639	364.654	366.668
115.0	354.961	360.385	365.808	371.232	376.656	382.080	387.503	392.927	394.872	396.817
117.5	386.591	391.856	397.121	402.386	407.651	412.916	418.181	423.446	425.296	427.146
120.0	420.204	425.124	430.046	434.966	439.888	444.808	449.730	454.650	456.542	458.434
122.5	453.597	458.343	463.089	467.834	472.580	477.326	482.072	486.817	488.768	490.720
125.0	487.744	492.215	496.686	501.157	505.628	510.100	514.571	519.042	520.854	522.666
127.5	523.445	527.491	531.536	535.582	539.628	543.674	547.720	551.766	553.516	555.266
130.0	559.829	563.396	566.964	570.532	574.100	577.667	581.235	584.802	586.448	588.094
132.5	595.716	598.950	602.186	605.421	608.656	611.891	615.126	618.361	620.001	621.640
135.0	628.088	631.137	634.185	637.233	640.281	643.330	646.378	649.426	651.024	652.622
137.5	659.588	662.662	665.736	668.810	671.884	674.958	678.032	681.106	682.598	684.091
140.0	689.058	692.246	695.433	698.620	701.808	704.995	708.182	711.370	712.722	714.074
142.5	718.816	721.872	724.928	727.984	731.040	734.096	737.152	740.208	741.423	742.638
145.0	747.372	750.311	753.250	756.188	759.127	762.066	765.004	767.943	769.128	770.312
147.5	774.843	777.440	780.037	782.634	785.231	787.828	790.425	793.022	794.077	795.131
150.0	801.717	804.081	806.445	808.809	811.172	813.536	815.900	818.264	819.044	819.824
152.5	826.202	828.252	830.301	832.350	834.400	836.449	838.498	840.548	841.314	842.081
155.0	848.577	850.423	852.269	854.114	855.960	857.806	859.652	861.497	862.064	862.632
157.5	869.921	871.408	872.894	874.380	875.866	877.352	878.838	880.324	880.856	881.389

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CANDELA TABULATION - (Cont.)

160.0	889.128	890.370	891.611	892.852	894.093	895.334	896.576	897.817	898.242	898.668
162.5	906.753	907.712	908.670	909.630	910.588	911.547	912.506	913.465	913.773	914.081
165.0	921.536	922.219	922.902	923.586	924.269	924.952	925.635	926.318	926.546	926.774
167.5	934.346	934.875	935.403	935.932	936.460	936.989	937.517	938.046	938.217	938.388
170.0	945.128	945.520	945.912	946.304	946.695	947.087	947.479	947.871	947.939	948.008
172.5	953.688	954.038	954.389	954.739	955.090	955.440	955.791	956.142	956.076	956.010
175.0	959.834	959.958	960.082	960.206	960.329	960.453	960.577	960.700	960.710	960.718
177.5	963.102	963.241	963.380	963.519	963.658	963.798	963.937	964.076	964.004	963.932
180.0	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600

Vert. Horizontal Angles
Angles

	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
90.0	93.929	93.625	93.321	93.016	92.712	92.408	92.104	92.408	92.712	93.016
92.5	158.823	159.908	160.994	162.079	163.164	164.250	165.335	164.250	163.164	162.079
95.0	188.121	189.781	191.441	193.101	194.762	196.422	198.082	196.422	194.762	193.101
97.5	211.383	213.137	214.891	216.646	218.400	220.154	221.908	220.154	218.400	216.646
100.0	235.078	236.885	238.692	240.499	242.306	244.113	245.920	244.113	242.306	240.499
102.5	260.772	262.807	264.842	266.877	268.912	270.948	272.983	270.948	268.912	266.877
105.0	286.381	288.295	290.209	292.123	294.037	295.951	297.865	295.951	294.037	292.123
107.5	312.806	314.712	316.618	318.524	320.431	322.337	324.243	322.337	320.431	318.524
110.0	340.746	342.643	344.541	346.438	348.335	350.232	352.130	350.232	348.335	346.438
112.5	368.683	370.697	372.712	374.726	376.741	378.756	380.770	378.756	376.741	374.726
115.0	398.762	400.706	402.652	404.596	406.541	408.486	410.431	408.486	406.541	404.596
117.5	428.995	430.845	432.694	434.544	436.393	438.243	440.092	438.243	436.393	434.544
120.0	460.327	462.219	464.111	466.003	467.895	469.787	471.679	469.787	467.895	466.003
122.5	492.671	494.623	496.574	498.526	500.477	502.428	504.380	502.428	500.477	498.526
125.0	524.478	526.291	528.103	529.915	531.727	533.540	535.352	533.540	531.727	529.915
127.5	557.016	558.767	560.517	562.268	564.018	565.768	567.518	565.768	564.018	562.268
130.0	589.740	591.386	593.032	594.678	596.324	597.970	599.616	597.970	596.324	594.678
132.5	623.280	624.919	626.558	628.198	629.838	631.477	633.116	631.477	629.838	628.198
135.0	654.221	655.819	657.417	659.015	660.614	662.212	663.810	662.212	660.614	659.015
137.5	685.583	687.076	688.568	690.061	691.553	693.046	694.538	693.046	691.553	690.061
140.0	715.426	716.778	718.130	719.482	720.834	722.186	723.538	722.186	720.834	719.482
142.5	743.854	745.069	746.285	747.500	748.716	749.931	751.146	749.931	748.716	747.500
145.0	771.497	772.681	773.866	775.050	776.235	777.419	778.604	777.419	776.235	775.050
147.5	796.185	797.240	798.294	799.348	800.402	801.457	802.511	801.457	800.402	799.348
150.0	820.603	821.383	822.163	822.943	823.722	824.502	825.282	824.502	823.722	822.943
152.5	842.848	843.615	844.382	845.149	845.916	846.683	847.450	846.683	845.916	845.149
155.0	863.198	863.766	864.333	864.900	865.467	866.034	866.601	866.034	865.467	864.900
157.5	881.921	882.453	882.986	883.518	884.050	884.582	885.115	884.582	884.050	883.518
160.0	899.093	899.518	899.944	900.369	900.794	901.220	901.645	901.220	900.794	900.369
162.5	914.389	914.697	915.006	915.314	915.622	915.930	916.238	915.930	915.622	915.314
165.0	927.002	927.230	927.459	927.687	927.915	928.143	928.371	928.143	927.915	927.687
167.5	938.560	938.731	938.903	939.074	939.246	939.417	939.588	939.417	939.246	939.074
170.0	948.076	948.144	948.212	948.281	948.349	948.417	948.486	948.417	948.349	948.281
172.5	955.944	955.879	955.813	955.747	955.682	955.616	955.550	955.616	955.682	955.747
175.0	960.728	960.736	960.746	960.754	960.764	960.772	960.782	960.772	960.764	960.754
177.5	963.860	963.787	963.715	963.643	963.571	963.498	963.426	963.498	963.571	963.643
180.0	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600

Vert. Horizontal Angles
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>
90.0	93.321	93.625	93.929	94.233	94.538	94.842	93.313	91.784	90.256	88.727
92.5	160.994	159.908	158.823	157.738	156.653	155.568	151.290	147.012	142.734	138.456

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CANDELA TABULATION - (Cont.)

95.0	191.441	189.781	188.121	186.461	184.801	183.141	178.110	173.080	168.049	163.019
97.5	214.891	213.137	211.383	209.629	207.874	206.120	200.876	195.632	190.387	185.142
100.0	238.692	236.885	235.078	233.271	231.464	229.657	224.348	219.039	213.730	208.421
102.5	264.842	262.807	260.772	258.737	256.702	254.666	249.230	243.793	238.357	232.920
105.0	290.209	288.295	286.381	284.467	282.553	280.639	275.121	269.603	264.086	258.568
107.5	316.618	314.712	312.806	310.899	308.993	307.087	301.614	296.142	290.669	285.196
110.0	344.541	342.643	340.746	338.849	336.952	335.054	329.676	324.297	318.919	313.540
112.5	372.712	370.697	368.683	366.668	364.654	362.639	357.274	351.908	346.542	341.177
115.0	402.652	400.706	398.762	396.817	394.872	392.927	387.503	382.080	376.656	371.232
117.5	432.694	430.845	428.995	427.146	425.296	423.446	418.181	412.916	407.651	402.386
120.0	464.111	462.219	460.327	458.434	456.542	454.650	449.730	444.808	439.888	434.966
122.5	496.574	494.623	492.671	490.720	488.768	486.817	482.072	477.326	472.580	467.834
125.0	528.103	526.291	524.478	522.666	520.854	519.042	514.571	510.100	505.628	501.157
127.5	560.517	558.767	557.016	555.266	553.516	551.766	547.720	543.674	539.628	535.582
130.0	593.032	591.386	589.740	588.094	586.448	584.802	581.235	577.667	574.100	570.532
132.5	626.558	624.919	623.280	621.640	620.001	618.361	615.126	611.891	608.656	605.421
135.0	657.417	655.819	654.221	652.622	651.024	649.426	646.378	643.330	640.281	637.233
137.5	688.568	687.076	685.583	684.091	682.598	681.106	678.032	674.958	671.884	668.810
140.0	718.130	716.778	715.426	714.074	712.722	711.370	708.182	704.995	701.808	698.620
142.5	746.285	745.069	743.854	742.638	741.423	740.208	737.152	734.096	731.040	727.984
145.0	773.866	772.681	771.497	770.312	769.128	767.943	765.004	762.066	759.127	756.188
147.5	798.294	797.240	796.185	795.131	794.077	793.022	790.425	787.828	785.231	782.634
150.0	822.163	821.383	820.603	819.824	819.044	818.264	815.900	813.536	811.172	808.809
152.5	844.382	843.615	842.848	842.081	841.314	840.548	838.498	836.449	834.400	832.350
155.0	864.333	863.766	863.198	862.632	862.064	861.497	859.652	857.806	855.960	854.114
157.5	882.986	882.453	881.921	881.389	880.856	880.324	878.838	877.352	875.866	874.380
160.0	899.944	899.518	899.093	898.668	898.242	897.817	896.576	895.334	894.093	892.852
162.5	915.006	914.697	914.389	914.081	913.773	913.465	912.506	911.547	910.588	909.630
165.0	927.459	927.230	927.002	926.774	926.546	926.318	925.635	924.952	924.269	923.586
167.5	938.903	938.731	938.560	938.388	938.217	938.046	937.517	936.989	936.460	935.932
170.0	948.212	948.144	948.076	948.008	947.939	947.871	947.479	947.087	946.695	946.304
172.5	955.813	955.879	955.944	956.010	956.076	956.142	955.791	955.440	955.090	954.739
175.0	960.746	960.736	960.728	960.718	960.710	960.700	960.577	960.453	960.329	960.206
177.5	963.715	963.787	963.860	963.932	964.004	964.076	963.937	963.798	963.658	963.519
180.0	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600

Vert. Angles **Horizontal Angles**

	125.0	127.5	130.0	132.5	135.0	137.5	140.0	142.5	145.0	147.5
90.0	87.198	85.670	84.141	82.613	81.084	77.277	73.469	69.662	65.854	62.047
92.5	134.178	129.901	125.623	121.345	117.067	111.100	105.132	99.164	93.197	87.230
95.0	157.988	152.958	147.927	142.896	137.866	131.510	125.155	118.800	112.444	106.088
97.5	179.898	174.654	169.409	164.164	158.920	152.461	146.003	139.544	133.086	126.627
100.0	203.112	197.803	192.494	187.185	181.876	175.368	168.859	162.350	155.841	149.332
102.5	227.484	222.047	216.611	211.174	205.738	199.319	192.900	186.482	180.063	173.644
105.0	253.050	247.532	242.015	236.497	230.979	224.791	218.603	212.415	206.227	200.040
107.5	279.724	274.251	268.778	263.306	257.833	251.714	245.594	239.474	233.355	227.235
110.0	308.162	302.783	297.405	292.026	286.648	280.764	274.880	268.996	263.112	257.229
112.5	335.811	330.445	325.080	319.714	314.348	309.068	303.787	298.507	293.226	287.946
115.0	365.808	360.385	354.961	349.538	344.114	339.045	333.976	328.906	323.837	318.768
117.5	397.121	391.856	386.591	381.326	376.060	371.120	366.180	361.240	356.299	351.359
120.0	430.046	425.124	420.204	415.282	410.362	405.680	400.999	396.318	391.637	386.955
122.5	463.089	458.343	453.597	448.852	444.106	439.929	435.752	431.574	427.397	423.220
125.0	496.686	492.215	487.744	483.273	478.802	474.677	470.553	466.428	462.304	458.179
127.5	531.536	527.491	523.445	519.399	515.353	510.808	506.264	501.719	497.175	492.630
130.0	566.964	563.396	559.829	556.261	552.694	547.668	542.643	537.618	532.592	527.567

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CANDELA TABULATION - (Cont.)

132.5	602.186	598.950	595.716	592.480	589.245	584.152	579.058	573.964	568.870	563.777
135.0	634.185	631.137	628.088	625.040	621.992	617.406	612.820	608.234	603.648	599.063
137.5	665.736	662.662	659.588	656.514	653.440	649.560	645.680	641.801	637.921	634.042
140.0	695.433	692.246	689.058	685.871	682.683	679.670	676.656	673.643	670.630	667.616
142.5	724.928	721.872	718.816	715.760	712.704	710.212	707.721	705.230	702.738	700.247
145.0	753.250	750.311	747.372	744.434	741.495	739.403	737.312	735.220	733.128	731.036
147.5	780.037	777.440	774.843	772.246	769.648	767.598	765.547	763.496	761.446	759.395
150.0	806.445	804.081	801.717	799.354	796.990	794.744	792.499	790.254	788.009	785.763
152.5	830.301	828.252	826.202	824.153	822.104	819.988	817.874	815.758	813.643	811.528
155.0	852.269	850.423	848.577	846.732	844.886	843.096	841.306	839.515	837.725	835.935
157.5	872.894	871.408	869.921	868.435	866.949	865.462	863.974	862.487	861.000	859.512
160.0	891.611	890.370	889.128	887.887	886.646	885.336	884.027	882.718	881.408	880.098
162.5	908.670	907.712	906.753	905.794	904.835	903.710	902.584	901.459	900.334	899.209
165.0	922.902	922.219	921.536	920.853	920.170	919.291	918.412	917.533	916.654	915.775
167.5	935.403	934.875	934.346	933.818	933.290	932.677	932.065	931.453	930.841	930.228
170.0	945.912	945.520	945.128	944.736	944.344	943.948	943.550	943.154	942.756	942.360
172.5	954.389	954.038	953.688	953.337	952.986	952.803	952.620	952.437	952.254	952.071
175.0	960.082	959.958	959.834	959.710	959.587	959.431	959.275	959.119	958.963	958.807
177.5	963.380	963.241	963.102	962.962	962.823	962.812	962.800	962.788	962.777	962.765
180.0	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600

Vert. Angles	Horizontal Angles									
	150.0	152.5	155.0	157.5	160.0	162.5	165.0	167.5	170.0	172.5
90.0	58.240	54.432	50.625	46.818	43.093	39.368	35.643	31.918	28.193	24.468
92.5	81.262	75.294	69.327	63.359	59.046	54.734	50.421	46.109	41.796	37.484
95.0	99.733	93.378	87.022	80.666	77.136	73.606	70.076	66.545	63.015	59.485
97.5	120.168	113.710	107.251	100.792	97.992	95.191	92.390	89.589	86.789	83.988
100.0	142.823	136.314	129.805	123.296	120.642	117.989	115.335	112.681	110.027	107.374
102.5	167.226	160.807	154.388	147.970	145.986	144.002	142.019	140.035	138.052	136.068
105.0	193.852	187.664	181.476	175.288	173.240	171.192	169.144	167.096	165.047	162.999
107.5	221.115	214.996	208.876	202.756	200.989	199.222	197.455	195.688	193.921	192.154
110.0	251.345	245.461	239.577	233.694	232.262	230.830	229.398	227.966	226.534	225.102
112.5	282.665	277.384	272.104	266.823	265.118	263.413	261.708	260.002	258.297	256.592
115.0	313.699	308.630	303.560	298.491	297.078	295.666	294.253	292.841	291.428	290.016
117.5	346.418	341.478	336.538	331.598	330.576	329.554	328.531	327.509	326.487	325.465
120.0	382.274	377.593	372.912	368.230	366.628	365.026	363.424	361.822	360.220	358.618
122.5	419.042	414.865	410.688	406.510	404.393	402.275	400.158	398.040	395.922	393.804
125.0	454.055	449.930	445.806	441.682	440.086	438.490	436.895	435.299	433.703	432.108
127.5	488.086	483.541	478.996	474.452	473.284	472.116	470.948	469.781	468.613	467.445
130.0	522.541	517.516	512.490	507.465	506.893	506.321	505.748	505.176	504.604	504.032
132.5	558.683	553.589	548.496	543.402	542.232	541.061	539.891	538.721	537.550	536.380
135.0	594.477	589.891	585.305	580.719	579.332	577.946	576.559	575.172	573.785	572.398
137.5	630.162	626.283	622.403	618.524	616.978	615.433	613.888	612.342	610.797	609.251
140.0	664.603	661.589	658.576	655.562	653.998	652.433	650.868	649.304	647.739	646.174
142.5	697.756	695.264	692.773	690.281	689.097	687.912	686.728	685.543	684.359	683.174
145.0	728.944	726.852	724.760	722.668	721.696	720.725	719.753	718.781	717.809	716.838
147.5	757.345	755.294	753.244	751.193	750.264	749.334	748.405	747.476	746.546	745.617
150.0	783.518	781.273	779.028	776.782	776.264	775.746	775.228	774.710	774.192	773.674
152.5	809.413	807.298	805.183	803.068	802.435	801.802	801.170	800.537	799.904	799.271
155.0	834.144	832.354	830.564	828.774	828.026	827.278	826.531	825.783	825.036	824.288
157.5	858.025	856.538	855.050	853.563	852.911	852.258	851.606	850.954	850.302	849.650
160.0	878.789	877.480	876.170	874.860	874.381	873.902	873.422	872.942	872.463	871.984
162.5	898.084	896.958	895.833	894.708	894.348	893.989	893.629	893.270	892.910	892.550
165.0	914.896	914.017	913.138	912.259	912.045	911.831	911.617	911.403	911.189	910.975
167.5	929.616	929.004	928.392	927.780	927.643	927.506	927.370	927.233	927.096	926.960

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CANDELA TABULATION - (Cont.)

170.0	941.962	941.566	941.168	940.772	940.616	940.460	940.304	940.148	939.992	939.836
172.5	951.888	951.705	951.522	951.339	951.176	951.012	950.848	950.684	950.521	950.357
175.0	958.651	958.495	958.339	958.183	958.028	957.874	957.719	957.564	957.410	957.255
177.5	962.754	962.742	962.730	962.719	962.620	962.520	962.421	962.322	962.222	962.123
180.0	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600

Vert. Angles	Horizontal Angles									
	175.0	177.5	180.0	182.5	185.0	187.5	190.0	192.5	195.0	197.5
90.0	20.743	17.018	13.294	17.018	20.743	24.468	28.193	31.918	35.643	39.368
92.5	33.171	28.858	24.546	28.858	33.171	37.484	41.796	46.109	50.421	54.734
95.0	55.954	52.424	48.894	52.424	55.954	59.485	63.015	66.545	70.076	73.606
97.5	81.187	78.386	75.586	78.386	81.187	83.988	86.789	89.589	92.390	95.191
100.0	104.720	102.066	99.412	102.066	104.720	107.374	110.027	112.681	115.335	117.989
102.5	134.084	132.101	130.117	132.101	134.084	136.068	138.052	140.035	142.019	144.002
105.0	160.951	158.903	156.855	158.903	160.951	162.999	165.047	167.096	169.144	171.192
107.5	190.387	188.620	186.853	188.620	190.387	192.154	193.921	195.688	197.455	199.222
110.0	223.670	222.238	220.806	222.238	223.670	225.102	226.534	227.966	229.398	230.830
112.5	254.887	253.182	251.476	253.182	254.887	256.592	258.297	260.002	261.708	263.413
115.0	288.603	287.190	285.778	287.190	288.603	290.016	291.428	292.841	294.253	295.666
117.5	324.443	323.421	322.399	323.421	324.443	325.465	326.487	327.509	328.531	329.554
120.0	357.016	355.414	353.812	355.414	357.016	358.618	360.220	361.822	363.424	365.026
122.5	391.687	389.569	387.452	389.569	391.687	393.804	395.922	398.040	400.158	402.275
125.0	430.512	428.916	427.321	428.916	430.512	432.108	433.703	435.299	436.895	438.490
127.5	466.278	465.110	463.942	465.110	466.278	467.445	468.613	469.781	470.948	472.116
130.0	503.459	502.887	502.315	502.887	503.459	504.032	504.604	505.176	505.748	506.321
132.5	535.210	534.040	532.869	534.040	535.210	536.380	537.550	538.721	539.891	541.061
135.0	571.011	569.624	568.238	569.624	571.011	572.398	573.785	575.172	576.559	577.946
137.5	607.706	606.160	604.615	606.160	607.706	609.251	610.797	612.342	613.888	615.433
140.0	644.610	643.045	641.480	643.045	644.610	646.174	647.739	649.304	650.868	652.433
142.5	681.990	680.805	679.621	680.805	681.990	683.174	684.359	685.543	686.728	687.912
145.0	715.866	714.894	713.922	714.894	715.866	716.838	717.809	718.781	719.753	720.725
147.5	744.688	743.758	742.829	743.758	744.688	745.617	746.546	747.476	748.405	749.334
150.0	773.156	772.637	772.119	772.637	773.156	773.674	774.192	774.710	775.228	775.746
152.5	798.638	798.005	797.372	798.005	798.638	799.271	799.904	800.537	801.170	801.802
155.0	823.541	822.793	822.046	822.793	823.541	824.288	825.036	825.783	826.531	827.278
157.5	848.998	848.345	847.693	848.345	848.998	849.650	850.302	850.954	851.606	852.258
160.0	871.504	871.025	870.545	871.025	871.504	871.984	872.463	872.942	873.422	873.902
162.5	892.191	891.831	891.472	891.831	892.191	892.550	892.910	893.270	893.629	893.989
165.0	910.761	910.547	910.333	910.547	910.761	910.975	911.189	911.403	911.617	911.831
167.5	926.823	926.687	926.550	926.687	926.823	926.960	927.096	927.233	927.370	927.506
170.0	939.680	939.524	939.368	939.524	939.680	939.836	939.992	940.148	940.304	940.460
172.5	950.193	950.030	949.866	950.030	950.193	950.357	950.521	950.684	950.848	951.012
175.0	957.100	956.946	956.791	956.946	957.100	957.255	957.410	957.564	957.719	957.874
177.5	962.024	961.925	961.826	961.925	962.024	962.123	962.222	962.322	962.421	962.520
180.0	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600

Vert. Angles	Horizontal Angles									
	200.0	202.5	205.0	207.5	210.0	212.5	215.0	217.5	220.0	222.5
90.0	43.093	46.818	50.625	54.432	58.240	62.047	65.854	69.662	73.469	77.277
92.5	59.046	63.359	69.327	75.294	81.262	87.230	93.197	99.164	105.132	111.100
95.0	77.136	80.666	87.022	93.378	99.733	106.088	112.444	118.800	125.155	131.510
97.5	97.992	100.792	107.251	113.710	120.168	126.627	133.086	139.544	146.003	152.461
100.0	120.642	123.296	129.805	136.314	142.823	149.332	155.841	162.350	168.859	175.368
102.5	145.986	147.970	154.388	160.807	167.226	173.644	180.063	186.482	192.900	199.319

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CANDELA TABULATION - (Cont.)

105.0	173.240	175.288	181.476	187.664	193.852	200.040	206.227	212.415	218.603	224.791
107.5	200.989	202.756	208.876	214.996	221.115	227.235	233.355	239.474	245.594	251.714
110.0	232.262	233.694	239.577	245.461	251.345	257.229	263.112	268.996	274.880	280.764
112.5	265.118	266.823	272.104	277.384	282.665	287.946	293.226	298.507	303.787	309.068
115.0	297.078	298.491	303.560	308.630	313.699	318.768	323.837	328.906	333.976	339.045
117.5	330.576	331.598	336.538	341.478	346.418	351.359	356.299	361.240	366.180	371.120
120.0	366.628	368.230	372.912	377.593	382.274	386.955	391.637	396.318	400.999	405.680
122.5	404.393	406.510	410.688	414.865	419.042	423.220	427.397	431.574	435.752	439.929
125.0	440.086	441.682	445.806	449.930	454.055	458.179	462.304	466.428	470.553	474.677
127.5	473.284	474.452	478.996	483.541	488.086	492.630	497.175	501.719	506.264	510.808
130.0	506.893	507.465	512.490	517.516	522.541	527.567	532.592	537.618	542.643	547.668
132.5	542.232	543.402	548.496	553.589	558.683	563.777	568.870	573.964	579.058	584.152
135.0	579.332	580.719	585.305	589.891	594.477	599.063	603.648	608.234	612.820	617.406
137.5	616.978	618.524	622.403	626.283	630.162	634.042	637.921	641.801	645.680	649.560
140.0	653.998	655.562	658.576	661.589	664.603	667.616	670.630	673.643	676.656	679.670
142.5	689.097	690.281	692.773	695.264	697.756	700.247	702.738	705.230	707.721	710.212
145.0	721.696	722.668	724.760	726.852	728.944	731.036	733.128	735.220	737.312	739.403
147.5	750.264	751.193	753.244	755.294	757.345	759.395	761.446	763.496	765.547	767.598
150.0	776.264	776.782	779.028	781.273	783.518	785.763	788.009	790.254	792.499	794.744
152.5	802.435	803.068	805.183	807.298	809.413	811.528	813.643	815.758	817.874	819.988
155.0	828.026	828.774	830.564	832.354	834.144	835.935	837.725	839.515	841.306	843.096
157.5	852.911	853.563	855.050	856.538	858.025	859.512	861.000	862.487	863.974	865.462
160.0	874.381	874.860	876.170	877.480	878.789	880.098	881.408	882.718	884.027	885.336
162.5	894.348	894.708	895.833	896.958	898.084	899.209	900.334	901.459	902.584	903.710
165.0	912.045	912.259	913.138	914.017	914.896	915.775	916.654	917.533	918.412	919.291
167.5	927.643	927.780	928.392	929.004	929.616	930.228	930.841	931.453	932.065	932.677
170.0	940.616	940.772	941.168	941.566	941.962	942.360	942.756	943.154	943.550	943.948
172.5	951.176	951.339	951.522	951.705	951.888	952.071	952.254	952.437	952.620	952.803
175.0	958.028	958.183	958.339	958.495	958.651	958.807	958.963	959.119	959.275	959.431
177.5	962.620	962.719	962.730	962.742	962.754	962.765	962.777	962.788	962.800	962.812
180.0	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600

**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>
90.0	81.084	82.613	84.141	85.670	87.198	88.727	90.256	91.784	93.313	94.842
92.5	117.067	121.345	125.623	129.901	134.178	138.456	142.734	147.012	151.290	155.568
95.0	137.866	142.896	147.927	152.958	157.988	163.019	168.049	173.080	178.110	183.141
97.5	158.920	164.164	169.409	174.654	179.898	185.142	190.387	195.632	200.876	206.120
100.0	181.876	187.185	192.494	197.803	203.112	208.421	213.730	219.039	224.348	229.657
102.5	205.738	211.174	216.611	222.047	227.484	232.920	238.357	243.793	249.230	254.666
105.0	230.979	236.497	242.015	247.532	253.050	258.568	264.086	269.603	275.121	280.639
107.5	257.833	263.306	268.778	274.251	279.724	285.196	290.669	296.142	301.614	307.087
110.0	286.648	292.026	297.405	302.783	308.162	313.540	318.919	324.297	329.676	335.054
112.5	314.348	319.714	325.080	330.445	335.811	341.177	346.542	351.908	357.274	362.639
115.0	344.114	349.538	354.961	360.385	365.808	371.232	376.656	382.080	387.503	392.927
117.5	376.060	381.326	386.591	391.856	397.121	402.386	407.651	412.916	418.181	423.446
120.0	410.362	415.282	420.204	425.124	430.046	434.966	439.888	444.808	449.730	454.650
122.5	444.106	448.852	453.597	458.343	463.089	467.834	472.580	477.326	482.072	486.817
125.0	478.802	483.273	487.744	492.215	496.686	501.157	505.628	510.100	514.571	519.042
127.5	515.353	519.399	523.445	527.491	531.536	535.582	539.628	543.674	547.720	551.766
130.0	552.694	556.261	559.829	563.396	566.964	570.532	574.100	577.667	581.235	584.802
132.5	589.245	592.480	595.716	598.950	602.186	605.421	608.656	611.891	615.126	618.361
135.0	621.992	625.040	628.088	631.137	634.185	637.233	640.281	643.330	646.378	649.426
137.5	653.440	656.514	659.588	662.662	665.736	668.810	671.884	674.958	678.032	681.106
140.0	682.683	685.871	689.058	692.246	695.433	698.620	701.808	704.995	708.182	711.370

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CANDELA TABULATION - (Cont.)

142.5	712.704	715.760	718.816	721.872	724.928	727.984	731.040	734.096	737.152	740.208
145.0	741.495	744.434	747.372	750.311	753.250	756.188	759.127	762.066	765.004	767.943
147.5	769.648	772.246	774.843	777.440	780.037	782.634	785.231	787.828	790.425	793.022
150.0	796.990	799.354	801.717	804.081	806.445	808.809	811.172	813.536	815.900	818.264
152.5	822.104	824.153	826.202	828.252	830.301	832.350	834.400	836.449	838.498	840.548
155.0	844.886	846.732	848.577	850.423	852.269	854.114	855.960	857.806	859.652	861.497
157.5	866.949	868.435	869.921	871.408	872.894	874.380	875.866	877.352	878.838	880.324
160.0	886.646	887.887	889.128	890.370	891.611	892.852	894.093	895.334	896.576	897.817
162.5	904.835	905.794	906.753	907.712	908.670	909.630	910.588	911.547	912.506	913.465
165.0	920.170	920.853	921.536	922.219	922.902	923.586	924.269	924.952	925.635	926.318
167.5	933.290	933.818	934.346	934.875	935.403	935.932	936.460	936.989	937.517	938.046
170.0	944.344	944.736	945.128	945.520	945.912	946.304	946.695	947.087	947.479	947.871
172.5	952.986	953.337	953.688	954.038	954.389	954.739	955.090	955.440	955.791	956.142
175.0	959.587	959.710	959.834	959.958	960.082	960.206	960.329	960.453	960.577	960.700
177.5	962.823	962.962	963.102	963.241	963.380	963.519	963.658	963.798	963.937	964.076
180.0	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600

Vert. Angles **Horizontal Angles**

	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
90.0	94.538	94.233	93.929	93.625	93.321	93.016	92.712	92.408	92.104	92.408
92.5	156.653	157.738	158.823	159.908	160.994	162.079	163.164	164.250	165.335	164.250
95.0	184.801	186.461	188.121	189.781	191.441	193.101	194.762	196.422	198.082	196.422
97.5	207.874	209.629	211.383	213.137	214.891	216.646	218.400	220.154	221.908	220.154
100.0	231.464	233.271	235.078	236.885	238.692	240.499	242.306	244.113	245.920	244.113
102.5	256.702	258.737	260.772	262.807	264.842	266.877	268.912	270.948	272.983	270.948
105.0	282.553	284.467	286.381	288.295	290.209	292.123	294.037	295.951	297.865	295.951
107.5	308.993	310.899	312.806	314.712	316.618	318.524	320.431	322.337	324.243	322.337
110.0	336.952	338.849	340.746	342.643	344.541	346.438	348.335	350.232	352.130	350.232
112.5	364.654	366.668	368.683	370.697	372.712	374.726	376.741	378.756	380.770	378.756
115.0	394.872	396.817	398.762	400.706	402.652	404.596	406.541	408.486	410.431	408.486
117.5	425.296	427.146	428.995	430.845	432.694	434.544	436.393	438.243	440.092	438.243
120.0	456.542	458.434	460.327	462.219	464.111	466.003	467.895	469.787	471.679	469.787
122.5	488.768	490.720	492.671	494.623	496.574	498.526	500.477	502.428	504.380	502.428
125.0	520.854	522.666	524.478	526.291	528.103	529.915	531.727	533.540	535.352	533.540
127.5	553.516	555.266	557.016	558.767	560.517	562.268	564.018	565.768	567.518	565.768
130.0	586.448	588.094	589.740	591.386	593.032	594.678	596.324	597.970	599.616	597.970
132.5	620.001	621.640	623.280	624.919	626.558	628.198	629.838	631.477	633.116	631.477
135.0	651.024	652.622	654.221	655.819	657.417	659.015	660.614	662.212	663.810	662.212
137.5	682.598	684.091	685.583	687.076	688.568	690.061	691.553	693.046	694.538	693.046
140.0	712.722	714.074	715.426	716.778	718.130	719.482	720.834	722.186	723.538	722.186
142.5	741.423	742.638	743.854	745.069	746.285	747.500	748.716	749.931	751.146	749.931
145.0	769.128	770.312	771.497	772.681	773.866	775.050	776.235	777.419	778.604	777.419
147.5	794.077	795.131	796.185	797.240	798.294	799.348	800.402	801.457	802.511	801.457
150.0	819.044	819.824	820.603	821.383	822.163	822.943	823.722	824.502	825.282	824.502
152.5	841.314	842.081	842.848	843.615	844.382	845.149	845.916	846.683	847.450	846.683
155.0	862.064	862.632	863.198	863.766	864.333	864.900	865.467	866.034	866.601	866.034
157.5	880.856	881.389	881.921	882.453	882.986	883.518	884.050	884.582	885.115	884.582
160.0	898.242	898.668	899.093	899.518	899.944	900.369	900.794	901.220	901.645	901.220
162.5	913.773	914.081	914.389	914.697	915.006	915.314	915.622	915.930	916.238	915.930
165.0	926.546	926.774	927.002	927.230	927.459	927.687	927.915	928.143	928.371	928.143
167.5	938.217	938.388	938.560	938.731	938.903	939.074	939.246	939.417	939.588	939.417
170.0	947.939	948.008	948.076	948.144	948.212	948.281	948.349	948.417	948.486	948.417
172.5	956.076	956.010	955.944	955.879	955.813	955.747	955.682	955.616	955.550	955.616
175.0	960.710	960.718	960.728	960.736	960.746	960.754	960.764	960.772	960.782	960.772
177.5	964.004	963.932	963.860	963.787	963.715	963.643	963.571	963.498	963.426	963.498

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CANDELA TABULATION - (Cont.)

180.0 963.600 963.600 963.600 963.600 963.600 963.600 963.600 963.600 963.600 963.600

**Vert.
Angles**

Horizontal Angles

	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
90.0	92.712	93.016	93.321	93.625	93.929	94.233	94.538	94.842	93.313	91.784
92.5	163.164	162.079	160.994	159.908	158.823	157.738	156.653	155.568	151.290	147.012
95.0	194.762	193.101	191.441	189.781	188.121	186.461	184.801	183.141	178.110	173.080
97.5	218.400	216.646	214.891	213.137	211.383	209.629	207.874	206.120	200.876	195.632
100.0	242.306	240.499	238.692	236.885	235.078	233.271	231.464	229.657	224.348	219.039
102.5	268.912	266.877	264.842	262.807	260.772	258.737	256.702	254.666	249.230	243.793
105.0	294.037	292.123	290.209	288.295	286.381	284.467	282.553	280.639	275.121	269.603
107.5	320.431	318.524	316.618	314.712	312.806	310.899	308.993	307.087	301.614	296.142
110.0	348.335	346.438	344.541	342.643	340.746	338.849	336.952	335.054	329.676	324.297
112.5	376.741	374.726	372.712	370.697	368.683	366.668	364.654	362.639	357.274	351.908
115.0	406.541	404.596	402.652	400.706	398.762	396.817	394.872	392.927	387.503	382.080
117.5	436.393	434.544	432.694	430.845	428.995	427.146	425.296	423.446	418.181	412.916
120.0	467.895	466.003	464.111	462.219	460.327	458.434	456.542	454.650	449.730	444.808
122.5	500.477	498.526	496.574	494.623	492.671	490.720	488.768	486.817	482.072	477.326
125.0	531.727	529.915	528.103	526.291	524.478	522.666	520.854	519.042	514.571	510.100
127.5	564.018	562.268	560.517	558.767	557.016	555.266	553.516	551.766	547.720	543.674
130.0	596.324	594.678	593.032	591.386	589.740	588.094	586.448	584.802	581.235	577.667
132.5	629.838	628.198	626.558	624.919	623.280	621.640	620.001	618.361	615.126	611.891
135.0	660.614	659.015	657.417	655.819	654.221	652.622	651.024	649.426	646.378	643.330
137.5	691.553	690.061	688.568	687.076	685.583	684.091	682.598	681.106	678.032	674.958
140.0	720.834	719.482	718.130	716.778	715.426	714.074	712.722	711.370	708.182	704.995
142.5	748.716	747.500	746.285	745.069	743.854	742.638	741.423	740.208	737.152	734.096
145.0	776.235	775.050	773.866	772.681	771.497	770.312	769.128	767.943	765.004	762.066
147.5	800.402	799.348	798.294	797.240	796.185	795.131	794.077	793.022	790.425	787.828
150.0	823.722	822.943	822.163	821.383	820.603	819.824	819.044	818.264	815.900	813.536
152.5	845.916	845.149	844.382	843.615	842.848	842.081	841.314	840.548	838.498	836.449
155.0	865.467	864.900	864.333	863.766	863.198	862.632	862.064	861.497	859.652	857.806
157.5	884.050	883.518	882.986	882.453	881.921	881.389	880.856	880.324	878.838	877.352
160.0	900.794	900.369	899.944	899.518	899.093	898.668	898.242	897.817	896.576	895.334
162.5	915.622	915.314	915.006	914.697	914.389	914.081	913.773	913.465	912.506	911.547
165.0	927.915	927.687	927.459	927.230	927.002	926.774	926.546	926.318	925.635	924.952
167.5	939.246	939.074	938.903	938.731	938.560	938.388	938.217	938.046	937.517	936.989
170.0	948.349	948.281	948.212	948.144	948.076	948.008	947.939	947.871	947.479	947.087
172.5	955.682	955.747	955.813	955.879	955.944	956.010	956.076	956.142	955.791	955.440
175.0	960.764	960.754	960.746	960.736	960.728	960.718	960.710	960.700	960.577	960.453
177.5	963.571	963.643	963.715	963.787	963.860	963.932	964.004	964.076	963.937	963.798
180.0	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600

**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>
90.0	90.256	88.727	87.198	85.670	84.141	82.613	81.084	77.277	73.469	69.662
92.5	142.734	138.456	134.178	129.901	125.623	121.345	117.067	111.100	105.132	99.164
95.0	168.049	163.019	157.988	152.958	147.927	142.896	137.866	131.510	125.155	118.800
97.5	190.387	185.142	179.898	174.654	169.409	164.164	158.920	152.461	146.003	139.544
100.0	213.730	208.421	203.112	197.803	192.494	187.185	181.876	175.368	168.859	162.350
102.5	238.357	232.920	227.484	222.047	216.611	211.174	205.738	199.319	192.900	186.482
105.0	264.086	258.568	253.050	247.532	242.015	236.497	230.979	224.791	218.603	212.415
107.5	290.669	285.196	279.724	274.251	268.778	263.306	257.833	251.714	245.594	239.474
110.0	318.919	313.540	308.162	302.783	297.405	292.026	286.648	280.764	274.880	268.996
112.5	346.542	341.177	335.811	330.445	325.080	319.714	314.348	309.068	303.787	298.507

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CANDELA TABULATION - (Cont.)

115.0	376.656	371.232	365.808	360.385	354.961	349.538	344.114	339.045	333.976	328.906
117.5	407.651	402.386	397.121	391.856	386.591	381.326	376.060	371.120	366.180	361.240
120.0	439.888	434.966	430.046	425.124	420.204	415.282	410.362	405.680	400.999	396.318
122.5	472.580	467.834	463.089	458.343	453.597	448.852	444.106	439.929	435.752	431.574
125.0	505.628	501.157	496.686	492.215	487.744	483.273	478.802	474.677	470.553	466.428
127.5	539.628	535.582	531.536	527.491	523.445	519.399	515.353	510.808	506.264	501.719
130.0	574.100	570.532	566.964	563.396	559.829	556.261	552.694	547.668	542.643	537.618
132.5	608.656	605.421	602.186	598.950	595.716	592.480	589.245	584.152	579.058	573.964
135.0	640.281	637.233	634.185	631.137	628.088	625.040	621.992	617.406	612.820	608.234
137.5	671.884	668.810	665.736	662.662	659.588	656.514	653.440	649.560	645.680	641.801
140.0	701.808	698.620	695.433	692.246	689.058	685.871	682.683	679.670	676.656	673.643
142.5	731.040	727.984	724.928	721.872	718.816	715.760	712.704	710.212	707.721	705.230
145.0	759.127	756.188	753.250	750.311	747.372	744.434	741.495	739.403	737.312	735.220
147.5	785.231	782.634	780.037	777.440	774.843	772.246	769.648	767.598	765.547	763.496
150.0	811.172	808.809	806.445	804.081	801.717	799.354	796.990	794.744	792.499	790.254
152.5	834.400	832.350	830.301	828.252	826.202	824.153	822.104	819.988	817.874	815.758
155.0	855.960	854.114	852.269	850.423	848.577	846.732	844.886	843.096	841.306	839.515
157.5	875.866	874.380	872.894	871.408	869.921	868.435	866.949	865.462	863.974	862.487
160.0	894.093	892.852	891.611	890.370	889.128	887.887	886.646	885.336	884.027	882.718
162.5	910.588	909.630	908.670	907.712	906.753	905.794	904.835	903.710	902.584	901.459
165.0	924.269	923.586	922.902	922.219	921.536	920.853	920.170	919.291	918.412	917.533
167.5	936.460	935.932	935.403	934.875	934.346	933.818	933.290	932.677	932.065	931.453
170.0	946.695	946.304	945.912	945.520	945.128	944.736	944.344	943.948	943.550	943.154
172.5	955.090	954.739	954.389	954.038	953.688	953.337	952.986	952.803	952.620	952.437
175.0	960.329	960.206	960.082	959.958	959.834	959.710	959.587	959.431	959.275	959.119
177.5	963.658	963.519	963.380	963.241	963.102	962.962	962.823	962.812	962.800	962.788
180.0	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600

**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>
90.0	65.854	62.047	58.240	54.432	50.625	46.818	43.093	39.368	35.643	31.918
92.5	93.197	87.230	81.262	75.294	69.327	63.359	59.046	54.734	50.421	46.109
95.0	112.444	106.088	99.733	93.378	87.022	80.666	77.136	73.606	70.076	66.545
97.5	133.086	126.627	120.168	113.710	107.251	100.792	97.992	95.191	92.390	89.589
100.0	155.841	149.332	142.823	136.314	129.805	123.296	120.642	117.989	115.335	112.681
102.5	180.063	173.644	167.226	160.807	154.388	147.970	145.986	144.002	142.019	140.035
105.0	206.227	200.040	193.852	187.664	181.476	175.288	173.240	171.192	169.144	167.096
107.5	233.355	227.235	221.115	214.996	208.876	202.756	200.989	199.222	197.455	195.688
110.0	263.112	257.229	251.345	245.461	239.577	233.694	232.262	230.830	229.398	227.966
112.5	293.226	287.946	282.665	277.384	272.104	266.823	265.118	263.413	261.708	260.002
115.0	323.837	318.768	313.699	308.630	303.560	298.491	297.078	295.666	294.253	292.841
117.5	356.299	351.359	346.418	341.478	336.538	331.598	330.576	329.554	328.531	327.509
120.0	391.637	386.955	382.274	377.593	372.912	368.230	366.628	365.026	363.424	361.822
122.5	427.397	423.220	419.042	414.865	410.688	406.510	404.393	402.275	400.158	398.040
125.0	462.304	458.179	454.055	449.930	445.806	441.682	440.086	438.490	436.895	435.299
127.5	497.175	492.630	488.086	483.541	478.996	474.452	473.284	472.116	470.948	469.781
130.0	532.592	527.567	522.541	517.516	512.490	507.465	506.893	506.321	505.748	505.176
132.5	568.870	563.777	558.683	553.589	548.496	543.402	542.232	541.061	539.891	538.721
135.0	603.648	599.063	594.477	589.891	585.305	580.719	579.332	577.946	576.559	575.172
137.5	637.921	634.042	630.162	626.283	622.403	618.524	616.978	615.433	613.888	612.342
140.0	670.630	667.616	664.603	661.589	658.576	655.562	653.998	652.433	650.868	649.304
142.5	702.738	700.247	697.756	695.264	692.773	690.281	689.097	687.912	686.728	685.543
145.0	733.128	731.036	728.944	726.852	724.760	722.668	721.696	720.725	719.753	718.781
147.5	761.446	759.395	757.345	755.294	753.244	751.193	750.264	749.334	748.405	747.476
150.0	788.009	785.763	783.518	781.273	779.028	776.782	776.264	775.746	775.228	774.710

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CANDELA TABULATION - (Cont.)

152.5	813.643	811.528	809.413	807.298	805.183	803.068	802.435	801.802	801.170	800.537
155.0	837.725	835.935	834.144	832.354	830.564	828.774	828.026	827.278	826.531	825.783
157.5	861.000	859.512	858.025	856.538	855.050	853.563	852.911	852.258	851.606	850.954
160.0	881.408	880.098	878.789	877.480	876.170	874.860	874.381	873.902	873.422	872.942
162.5	900.334	899.209	898.084	896.958	895.833	894.708	894.348	893.989	893.629	893.270
165.0	916.654	915.775	914.896	914.017	913.138	912.259	912.045	911.831	911.617	911.403
167.5	930.841	930.228	929.616	929.004	928.392	927.780	927.643	927.506	927.370	927.233
170.0	942.756	942.360	941.962	941.566	941.168	940.772	940.616	940.460	940.304	940.148
172.5	952.254	952.071	951.888	951.705	951.522	951.339	951.176	951.012	950.848	950.684
175.0	958.963	958.807	958.651	958.495	958.339	958.183	958.028	957.874	957.719	957.564
177.5	962.777	962.765	962.754	962.742	962.730	962.719	962.620	962.520	962.421	962.322
180.0	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600	963.600

Vert. Angles **Horizontal Angles**

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
90.0	28.193	24.468	20.743	17.018	13.294
92.5	41.796	37.484	33.171	28.858	24.546
95.0	63.015	59.485	55.954	52.424	48.894
97.5	86.789	83.988	81.187	78.386	75.586
100.0	110.027	107.374	104.720	102.066	99.412
102.5	138.052	136.068	134.084	132.101	130.117
105.0	165.047	162.999	160.951	158.903	156.855
107.5	193.921	192.154	190.387	188.620	186.853
110.0	226.534	225.102	223.670	222.238	220.806
112.5	258.297	256.592	254.887	253.182	251.476
115.0	291.428	290.016	288.603	287.190	285.778
117.5	326.487	325.465	324.443	323.421	322.399
120.0	360.220	358.618	357.016	355.414	353.812
122.5	395.922	393.804	391.687	389.569	387.452
125.0	433.703	432.108	430.512	428.916	427.321
127.5	468.613	467.445	466.278	465.110	463.942
130.0	504.604	504.032	503.459	502.887	502.315
132.5	537.550	536.380	535.210	534.040	532.869
135.0	573.785	572.398	571.011	569.624	568.238
137.5	610.797	609.251	607.706	606.160	604.615
140.0	647.739	646.174	644.610	643.045	641.480
142.5	684.359	683.174	681.990	680.805	679.621
145.0	717.809	716.838	715.866	714.894	713.922
147.5	746.546	745.617	744.688	743.758	742.829
150.0	774.192	773.674	773.156	772.637	772.119
152.5	799.904	799.271	798.638	798.005	797.372
155.0	825.036	824.288	823.541	822.793	822.046
157.5	850.302	849.650	848.998	848.345	847.693
160.0	872.463	871.984	871.504	871.025	870.545
162.5	892.910	892.550	892.191	891.831	891.472
165.0	911.189	910.975	910.761	910.547	910.333
167.5	927.096	926.960	926.823	926.687	926.550
170.0	939.992	939.836	939.680	939.524	939.368
172.5	950.521	950.357	950.193	950.030	949.866
175.0	957.410	957.255	957.100	956.946	956.791
177.5	962.222	962.123	962.024	961.925	961.826
180.0	963.600	963.600	963.600	963.600	963.600

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	382.87	N.A.	13.50
90-120	726.38	N.A.	25.60
90-130	1155.98	N.A.	40.70
90-150	2097.47	N.A.	73.90
90-180	2837.39	N.A.	100.00
110-180	2454.52	N.A.	86.50
0-180	2837.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	140.49
100-110	242.38
110-120	343.51
120-130	429.60
130-140	476.26
140-150	465.23
150-160	389.42
160-170	259.39
170-180	91.10

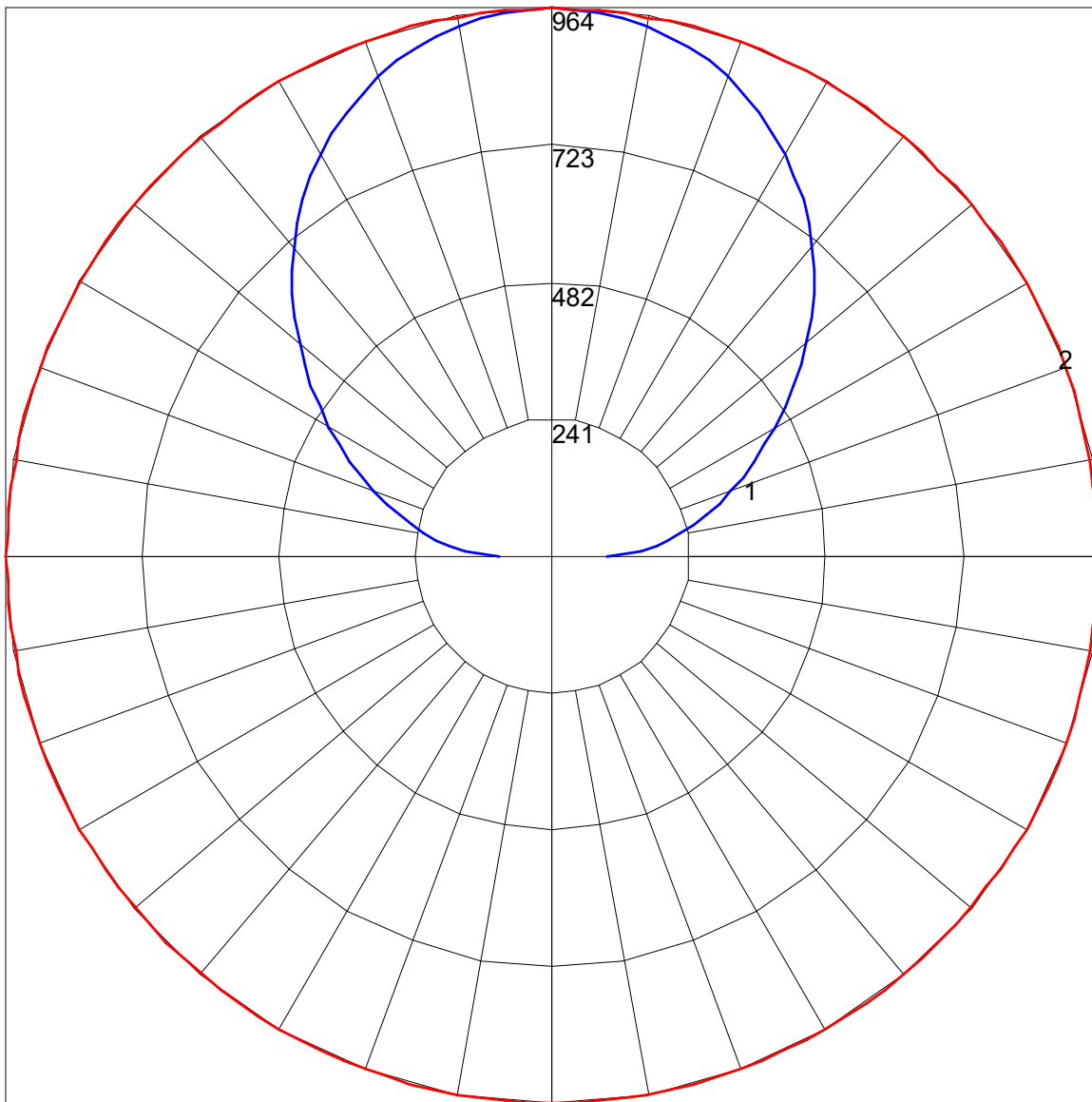
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 964.076 Located At Horizontal Angle = 67.5, Vertical Angle = 177.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (177.5) (Through Max. Cd.)