



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P4040-TU-LO-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	1490
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	13
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	6.979	8.935	10.890	12.846	14.801	16.757	18.712	20.668	22.624	24.579
92.5	12.886	15.151	17.415	19.679	21.943	24.207	26.471	28.735	30.999	33.264
95.0	25.669	27.523	29.376	31.230	33.083	34.936	36.790	38.643	40.496	42.350
97.5	39.682	41.153	42.623	44.094	45.564	47.034	48.505	49.975	51.446	52.916
100.0	52.191	53.585	54.978	56.371	57.764	59.158	60.551	61.944	63.337	64.731
102.5	68.312	69.353	70.394	71.436	72.477	73.518	74.560	75.601	76.643	77.684
105.0	82.349	83.424	84.499	85.575	86.650	87.725	88.800	89.876	90.951	92.026
107.5	98.098	99.025	99.953	100.881	101.809	102.736	103.664	104.592	105.519	106.447
110.0	115.923	116.675	117.427	118.179	118.930	119.682	120.434	121.186	121.937	122.689
112.5	132.025	132.920	133.816	134.711	135.606	136.501	137.396	138.292	139.187	140.082
115.0	150.033	150.775	151.516	152.258	153.000	153.741	154.483	155.225	155.966	156.708
117.5	169.259	169.796	170.332	170.869	171.406	171.942	172.479	173.016	173.552	174.089
120.0	185.751	186.592	187.433	188.274	189.115	189.957	190.798	191.639	192.480	193.321
122.5	203.412	204.524	205.636	206.747	207.859	208.971	210.083	211.194	212.306	213.418
125.0	224.343	225.181	226.019	226.856	227.694	228.532	229.370	230.207	231.045	231.883
127.5	243.570	244.183	244.796	245.409	246.022	246.635	247.248	247.861	248.474	249.087
130.0	263.715	264.016	264.316	264.617	264.917	265.217	265.518	265.818	266.119	266.419
132.5	279.756	280.371	280.985	281.599	282.214	282.828	283.443	284.057	284.672	285.286
135.0	298.325	299.053	299.781	300.509	301.237	301.965	302.693	303.421	304.150	304.878
137.5	317.423	318.234	319.046	319.857	320.668	321.480	322.291	323.102	323.914	324.725
140.0	336.777	337.599	338.420	339.241	340.063	340.884	341.706	342.527	343.349	344.170
142.5	356.801	357.423	358.045	358.667	359.288	359.910	360.532	361.154	361.776	362.398
145.0	374.809	375.319	375.829	376.340	376.850	377.360	377.870	378.381	378.891	379.401
147.5	389.985	390.473	390.961	391.449	391.937	392.425	392.913	393.401	393.888	394.376
150.0	405.363	405.635	405.907	406.179	406.451	406.723	406.995	407.267	407.539	407.811
152.5	418.620	418.953	419.285	419.617	419.949	420.282	420.614	420.946	421.278	421.611
155.0	431.574	431.966	432.359	432.751	433.144	433.536	433.929	434.321	434.714	435.106
157.5	445.039	445.381	445.724	446.066	446.409	446.751	447.093	447.436	447.778	448.120
160.0	457.036	457.288	457.540	457.791	458.043	458.295	458.547	458.798	459.050	459.302
162.5	468.023	468.211	468.400	468.589	468.778	468.967	469.155	469.344	469.533	469.722
165.0	477.925	478.037	478.150	478.262	478.374	478.486	478.599	478.711	478.824	478.936
167.5	486.439	486.511	486.582	486.654	486.726	486.797	486.869	486.941	487.012	487.084
170.0	493.168	493.250	493.332	493.414	493.496	493.577	493.659	493.741	493.823	493.905
172.5	498.680	498.766	498.851	498.938	499.023	499.109	499.195	499.281	499.367	499.453
175.0	502.315	502.397	502.478	502.559	502.640	502.721	502.803	502.884	502.965	503.046
177.5	504.958	505.011	505.063	505.115	505.167	505.219	505.271	505.323	505.375	505.427
180.0	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890

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	26.578	28.577	30.576	32.575	34.574	36.573	38.571	40.570	42.569	43.372
92.5	36.397	39.530	42.663	45.796	48.928	52.061	55.194	58.327	61.460	63.706
95.0	45.687	49.023	52.360	55.696	59.033	62.370	65.706	69.043	72.380	75.021
97.5	56.307	59.698	63.088	66.479	69.870	73.261	76.651	80.042	83.433	86.186
100.0	68.148	71.565	74.982	78.399	81.816	85.234	88.651	92.068	95.485	98.272
102.5	81.054	84.424	87.793	91.163	94.533	97.903	101.273	104.642	108.012	110.866
105.0	95.275	98.523	101.772	105.021	108.269	111.518	114.767	118.015	121.264	124.161
107.5	109.660	112.873	116.085	119.298	122.511	125.724	128.937	132.150	135.362	138.236
110.0	125.778	128.867	131.956	135.045	138.134	141.223	144.312	147.401	150.490	153.314
112.5	142.854	145.627	148.399	151.171	153.944	156.716	159.488	162.261	165.033	167.850
115.0	159.369	162.031	164.692	167.353	170.015	172.676	175.337	177.999	180.660	183.507
117.5	176.682	179.276	181.870	184.463	187.057	189.651	192.244	194.838	197.432	200.196
120.0	195.779	198.236	200.694	203.151	205.609	208.067	210.525	212.982	215.440	218.023

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CANDELA TABULATION - (Cont.)

122.5	215.611	217.804	219.997	222.190	224.383	226.576	228.770	230.963	233.156	235.647
125.0	234.048	236.213	238.379	240.544	242.710	244.875	247.040	249.206	251.371	253.718
127.5	251.473	253.859	256.245	258.631	261.017	263.403	265.789	268.174	270.560	272.685
130.0	269.057	271.696	274.334	276.973	279.611	282.249	284.887	287.526	290.164	292.037
132.5	287.960	290.634	293.309	295.983	298.657	301.331	304.005	306.680	309.354	311.052
135.0	307.285	309.693	312.100	314.508	316.915	319.323	321.731	324.138	326.546	328.146
137.5	326.762	328.798	330.835	332.872	334.909	336.945	338.982	341.019	343.056	344.670
140.0	345.752	347.334	348.916	350.498	352.081	353.662	355.245	356.827	358.409	360.082
142.5	363.706	365.014	366.322	367.630	368.938	370.246	371.554	372.861	374.170	375.774
145.0	380.499	381.597	382.696	383.794	384.892	385.990	387.089	388.187	389.285	390.828
147.5	395.453	396.529	397.606	398.682	399.759	400.836	401.912	402.989	404.065	405.429
150.0	408.989	410.168	411.347	412.526	413.705	414.883	416.062	417.241	418.420	419.661
152.5	422.721	423.831	424.942	426.052	427.163	428.273	429.384	430.494	431.604	432.680
155.0	436.046	436.986	437.926	438.866	439.806	440.745	441.685	442.625	443.565	444.534
157.5	448.901	449.682	450.463	451.244	452.025	452.806	453.587	454.368	455.148	455.928
160.0	459.989	460.677	461.364	462.052	462.739	463.427	464.114	464.802	465.489	466.141
162.5	470.312	470.903	471.494	472.085	472.675	473.266	473.857	474.448	475.038	475.542
165.0	479.397	479.859	480.320	480.782	481.243	481.705	482.166	482.628	483.089	483.448
167.5	487.406	487.727	488.049	488.370	488.691	489.013	489.334	489.656	489.977	490.254
170.0	494.113	494.322	494.530	494.739	494.947	495.156	495.364	495.572	495.781	495.987
172.5	499.549	499.645	499.741	499.837	499.934	500.030	500.126	500.222	500.318	500.502
175.0	503.128	503.210	503.292	503.374	503.455	503.537	503.619	503.701	503.783	503.848
177.5	505.433	505.440	505.446	505.452	505.458	505.464	505.470	505.476	505.482	505.555
180.0	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890

**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	44.174	44.977	45.779	46.582	47.384	48.187	48.989	49.792	49.632	49.472
92.5	65.952	68.198	70.444	72.690	74.935	77.181	79.427	81.673	82.243	82.812
95.0	77.662	80.303	82.944	85.585	88.226	90.867	93.508	96.149	97.020	97.892
97.5	88.940	91.693	94.446	97.200	99.953	102.707	105.460	108.213	109.134	110.055
100.0	101.060	103.847	106.634	109.421	112.208	114.995	117.783	120.570	121.519	122.467
102.5	113.721	116.575	119.429	122.283	125.137	127.991	130.846	133.700	134.768	135.837
105.0	127.058	129.955	132.851	135.748	138.645	141.542	144.439	147.335	148.340	149.345
107.5	141.109	143.982	146.855	149.728	152.601	155.474	158.347	161.221	162.221	163.222
110.0	156.138	158.961	161.785	164.609	167.432	170.256	173.080	175.904	176.900	177.896
112.5	170.667	173.484	176.301	179.118	181.935	184.752	187.569	190.386	191.443	192.501
115.0	186.355	189.202	192.049	194.897	197.744	200.592	203.439	206.287	207.308	208.329
117.5	202.960	205.724	208.488	211.253	214.017	216.781	219.545	222.309	223.280	224.251
120.0	220.607	223.190	225.774	228.357	230.941	233.524	236.108	238.691	239.685	240.678
122.5	238.139	240.630	243.122	245.613	248.104	250.596	253.088	255.579	256.603	257.628
125.0	256.066	258.413	260.760	263.108	265.455	267.802	270.150	272.497	273.448	274.400
127.5	274.809	276.933	279.057	281.181	283.305	285.429	287.553	289.677	290.596	291.515
130.0	293.910	295.783	297.656	299.529	301.402	303.275	305.148	307.021	307.885	308.750
132.5	312.751	314.449	316.147	317.846	319.544	321.243	322.941	324.640	325.500	326.361
135.0	329.746	331.347	332.947	334.547	336.148	337.748	339.348	340.949	341.788	342.627
137.5	346.283	347.897	349.511	351.125	352.739	354.353	355.967	357.580	358.364	359.148
140.0	361.755	363.429	365.102	366.776	368.449	370.122	371.796	373.469	374.179	374.889
142.5	377.378	378.983	380.587	382.191	383.796	385.400	387.005	388.609	389.247	389.885
145.0	392.370	393.913	395.456	396.999	398.542	400.085	401.627	403.170	403.792	404.414
147.5	406.792	408.156	409.519	410.883	412.246	413.610	414.973	416.337	416.890	417.444
150.0	420.902	422.143	423.384	424.625	425.865	427.107	428.347	429.589	429.998	430.407
152.5	433.756	434.832	435.908	436.984	438.060	439.136	440.212	441.287	441.690	442.093
155.0	445.503	446.472	447.441	448.410	449.379	450.348	451.317	452.286	452.584	452.882
157.5	456.709	457.489	458.269	459.049	459.829	460.610	461.390	462.170	462.450	462.729

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CANDELA TABULATION - (Cont.)

160.0	466.792	467.444	468.096	468.747	469.399	470.051	470.702	471.354	471.577	471.800
162.5	476.045	476.549	477.052	477.556	478.059	478.562	479.066	479.569	479.731	479.893
165.0	483.807	484.165	484.524	484.882	485.241	485.600	485.958	486.317	486.437	486.557
167.5	490.532	490.809	491.087	491.364	491.642	491.919	492.197	492.474	492.564	492.654
170.0	496.192	496.398	496.604	496.809	497.015	497.221	497.426	497.632	497.668	497.704
172.5	500.686	500.870	501.054	501.238	501.422	501.606	501.790	501.974	501.940	501.905
175.0	503.913	503.978	504.043	504.108	504.173	504.238	504.303	504.368	504.373	504.377
177.5	505.628	505.701	505.774	505.848	505.921	505.994	506.067	506.140	506.102	506.064
180.0	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890

**Vert.
Angles**

Horizontal Angles

	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
90.0	49.313	49.153	48.993	48.834	48.674	48.514	48.355	48.514	48.674	48.834
92.5	83.382	83.952	84.522	85.092	85.661	86.231	86.801	86.231	85.661	85.092
95.0	98.764	99.635	100.507	101.378	102.250	103.121	103.993	103.121	102.250	101.378
97.5	110.976	111.897	112.818	113.739	114.660	115.581	116.502	115.581	114.660	113.739
100.0	123.416	124.365	125.313	126.262	127.211	128.159	129.108	128.159	127.211	126.262
102.5	136.905	137.974	139.042	140.111	141.179	142.247	143.316	142.247	141.179	140.111
105.0	150.350	151.355	152.360	153.364	154.369	155.374	156.379	155.374	154.369	153.364
107.5	164.223	165.224	166.224	167.225	168.226	169.227	170.228	169.227	168.226	167.225
110.0	178.892	179.888	180.884	181.880	182.876	183.872	184.868	183.872	182.876	181.880
112.5	193.558	194.616	195.674	196.731	197.789	198.847	199.904	198.847	197.789	196.731
115.0	209.350	210.371	211.392	212.413	213.434	214.455	215.476	214.455	213.434	212.413
117.5	225.222	226.194	227.164	228.135	229.106	230.077	231.049	230.077	229.106	228.135
120.0	241.672	242.665	243.658	244.651	245.645	246.638	247.632	246.638	245.645	244.651
122.5	258.652	259.677	260.701	261.726	262.750	263.775	264.799	263.775	262.750	261.726
125.0	275.351	276.303	277.254	278.205	279.157	280.108	281.060	280.108	279.157	278.205
127.5	292.434	293.353	294.272	295.190	296.109	297.028	297.947	297.028	296.109	295.190
130.0	309.613	310.478	311.342	312.206	313.070	313.934	314.798	313.934	313.070	312.206
132.5	327.222	328.083	328.943	329.804	330.665	331.525	332.386	331.525	330.665	329.804
135.0	343.466	344.305	345.144	345.983	346.822	347.661	348.500	347.661	346.822	345.983
137.5	359.931	360.715	361.498	362.282	363.065	363.849	364.633	363.849	363.065	362.282
140.0	375.599	376.308	377.018	377.728	378.438	379.148	379.858	379.148	378.438	377.728
142.5	390.523	391.161	391.800	392.437	393.076	393.714	394.352	393.714	393.076	392.437
145.0	405.036	405.658	406.279	406.901	407.523	408.145	408.767	408.145	407.523	406.901
147.5	417.997	418.551	419.104	419.658	420.211	420.765	421.318	420.765	420.211	419.658
150.0	430.817	431.226	431.635	432.045	432.454	432.864	433.273	432.864	432.454	432.045
152.5	442.495	442.898	443.301	443.703	444.106	444.508	444.911	444.508	444.106	443.703
155.0	453.179	453.477	453.775	454.072	454.370	454.668	454.966	454.668	454.370	454.072
157.5	463.008	463.288	463.567	463.847	464.126	464.406	464.685	464.406	464.126	463.847
160.0	472.024	472.247	472.470	472.694	472.917	473.140	473.364	473.140	472.917	472.694
162.5	480.054	480.216	480.378	480.540	480.701	480.863	481.025	480.863	480.701	480.540
165.0	486.676	486.796	486.916	487.036	487.155	487.275	487.395	487.275	487.155	487.036
167.5	492.744	492.834	492.924	493.014	493.104	493.194	493.284	493.194	493.104	493.014
170.0	497.740	497.776	497.811	497.847	497.883	497.919	497.955	497.919	497.883	497.847
172.5	501.871	501.836	501.802	501.767	501.733	501.698	501.664	501.698	501.733	501.767
175.0	504.382	504.387	504.391	504.396	504.401	504.405	504.410	504.405	504.401	504.396
177.5	506.026	505.988	505.950	505.912	505.875	505.837	505.799	505.837	505.875	505.912
180.0	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890

**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>
90.0	48.993	49.153	49.313	49.472	49.632	49.792	48.989	48.187	47.384	46.582
92.5	84.522	83.952	83.382	82.812	82.243	81.673	79.427	77.181	74.935	72.690

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CANDELA TABULATION - (Cont.)

95.0	100.507	99.635	98.764	97.892	97.020	96.149	93.508	90.867	88.226	85.585
97.5	112.818	111.897	110.976	110.055	109.134	108.213	105.460	102.707	99.953	97.200
100.0	125.313	124.365	123.416	122.467	121.519	120.570	117.783	114.995	112.208	109.421
102.5	139.042	137.974	136.905	135.837	134.768	133.700	130.846	127.991	125.137	122.283
105.0	152.360	151.355	150.350	149.345	148.340	147.335	144.439	141.542	138.645	135.748
107.5	166.224	165.224	164.223	163.222	162.221	161.221	158.347	155.474	152.601	149.728
110.0	180.884	179.888	178.892	177.896	176.900	175.904	173.080	170.256	167.432	164.609
112.5	195.674	194.616	193.558	192.501	191.443	190.386	187.569	184.752	181.935	179.118
115.0	211.392	210.371	209.350	208.329	207.308	206.287	203.439	200.592	197.744	194.897
117.5	227.164	226.194	225.222	224.251	223.280	222.309	219.545	216.781	214.017	211.253
120.0	243.658	242.665	241.672	240.678	239.685	238.691	236.108	233.524	230.941	228.357
122.5	260.701	259.677	258.652	257.628	256.603	255.579	253.088	250.596	248.104	245.613
125.0	277.254	276.303	275.351	274.400	273.448	272.497	270.150	267.802	265.455	263.108
127.5	294.272	293.353	292.434	291.515	290.596	289.677	287.553	285.429	283.305	281.181
130.0	311.342	310.478	309.613	308.750	307.885	307.021	305.148	303.275	301.402	299.529
132.5	328.943	328.083	327.222	326.361	325.500	324.640	322.941	321.243	319.544	317.846
135.0	345.144	344.305	343.466	342.627	341.788	340.949	339.348	337.748	336.148	334.547
137.5	361.498	360.715	359.931	359.148	358.364	357.580	355.967	354.353	352.739	351.125
140.0	377.018	376.308	375.599	374.889	374.179	373.469	371.796	370.122	368.449	366.776
142.5	391.800	391.161	390.523	389.885	389.247	388.609	387.005	385.400	383.796	382.191
145.0	406.279	405.658	405.036	404.414	403.792	403.170	401.627	400.085	398.542	396.999
147.5	419.104	418.551	417.997	417.444	416.890	416.337	414.973	413.610	412.246	410.883
150.0	431.635	431.226	430.817	430.407	429.998	429.589	428.347	427.107	425.865	424.625
152.5	443.301	442.898	442.495	442.093	441.690	441.287	440.212	439.136	438.060	436.984
155.0	453.775	453.477	453.179	452.882	452.584	452.286	451.317	450.348	449.379	448.410
157.5	463.567	463.288	463.008	462.729	462.450	462.170	461.390	460.610	459.829	459.049
160.0	472.470	472.247	472.024	471.800	471.577	471.354	470.702	470.051	469.399	468.747
162.5	480.378	480.216	480.054	479.893	479.731	479.569	479.066	478.562	478.059	477.556
165.0	486.916	486.796	486.676	486.557	486.437	486.317	485.958	485.600	485.241	484.882
167.5	492.924	492.834	492.744	492.654	492.564	492.474	492.197	491.919	491.642	491.364
170.0	497.811	497.776	497.740	497.704	497.668	497.632	497.426	497.221	497.015	496.809
172.5	501.802	501.836	501.871	501.905	501.940	501.974	501.790	501.606	501.422	501.238
175.0	504.391	504.387	504.382	504.377	504.373	504.368	504.303	504.238	504.173	504.108
177.5	505.950	505.988	506.026	506.064	506.102	506.140	506.067	505.994	505.921	505.848
180.0	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890

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>
90.0	45.779	44.977	44.174	43.372	42.569	40.570	38.571	36.573	34.574	32.575
92.5	70.444	68.198	65.952	63.706	61.460	58.327	55.194	52.061	48.928	45.796
95.0	82.944	80.303	77.662	75.021	72.380	69.043	65.706	62.370	59.033	55.696
97.5	94.446	91.693	88.940	86.186	83.433	80.042	76.651	73.261	69.870	66.479
100.0	106.634	103.847	101.060	98.272	95.485	92.068	88.651	85.234	81.816	78.399
102.5	119.429	116.575	113.721	110.866	108.012	104.642	101.273	97.903	94.533	91.163
105.0	132.851	129.955	127.058	124.161	121.264	118.015	114.767	111.518	108.269	105.021
107.5	146.855	143.982	141.109	138.236	135.362	132.150	128.937	125.724	122.511	119.298
110.0	161.785	158.961	156.138	153.314	150.490	147.401	144.312	141.223	138.134	135.045
112.5	176.301	173.484	170.667	167.850	165.033	162.261	159.488	156.716	153.944	151.171
115.0	192.049	189.202	186.355	183.507	180.660	177.999	175.337	172.676	170.015	167.353
117.5	208.488	205.724	202.960	200.196	197.432	194.838	192.244	189.651	187.057	184.463
120.0	225.774	223.190	220.607	218.023	215.440	212.982	210.525	208.067	205.609	203.151
122.5	243.122	240.630	238.139	235.647	233.156	230.963	228.770	226.576	224.383	222.190
125.0	260.760	258.413	256.066	253.718	251.371	249.206	247.040	244.875	242.710	240.544
127.5	279.057	276.933	274.809	272.685	270.560	268.174	265.789	263.403	261.017	258.631
130.0	297.656	295.783	293.910	292.037	290.164	287.526	284.887	282.249	279.611	276.973

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CANDELA TABULATION - (Cont.)

132.5	316.147	314.449	312.751	311.052	309.354	306.680	304.005	301.331	298.657	295.983
135.0	332.947	331.347	329.746	328.146	326.546	324.138	321.731	319.323	316.915	314.508
137.5	349.511	347.897	346.283	344.670	343.056	341.019	338.982	336.945	334.909	332.872
140.0	365.102	363.429	361.755	360.082	358.409	356.827	355.245	353.662	352.081	350.498
142.5	380.587	378.983	377.378	375.774	374.170	372.861	371.554	370.246	368.938	367.630
145.0	395.456	393.913	392.370	390.828	389.285	388.187	387.089	385.990	384.892	383.794
147.5	409.519	408.156	406.792	405.429	404.065	402.989	401.912	400.836	399.759	398.682
150.0	423.384	422.143	420.902	419.661	418.420	417.241	416.062	414.883	413.705	412.526
152.5	435.908	434.832	433.756	432.680	431.604	430.494	429.384	428.273	427.163	426.052
155.0	447.441	446.472	445.503	444.534	443.565	442.625	441.685	440.745	439.806	438.866
157.5	458.269	457.489	456.709	455.928	455.148	454.368	453.587	452.806	452.025	451.244
160.0	468.096	467.444	466.792	466.141	465.489	464.802	464.114	463.427	462.739	462.052
162.5	477.052	476.549	476.045	475.542	475.038	474.448	473.857	473.266	472.675	472.085
165.0	484.524	484.165	483.807	483.448	483.089	482.628	482.166	481.705	481.243	480.782
167.5	491.087	490.809	490.532	490.254	489.977	489.656	489.334	489.013	488.691	488.370
170.0	496.604	496.398	496.192	495.987	495.781	495.572	495.364	495.156	494.947	494.739
172.5	501.054	500.870	500.686	500.502	500.318	500.222	500.126	500.030	499.934	499.837
175.0	504.043	503.978	503.913	503.848	503.783	503.701	503.619	503.537	503.455	503.374
177.5	505.774	505.701	505.628	505.555	505.482	505.476	505.470	505.464	505.458	505.452
180.0	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890

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>
90.0	30.576	28.577	26.578	24.579	22.624	20.668	18.712	16.757	14.801	12.846
92.5	42.663	39.530	36.397	33.264	30.999	28.735	26.471	24.207	21.943	19.679
95.0	52.360	49.023	45.687	42.350	40.496	38.643	36.790	34.936	33.083	31.230
97.5	63.088	59.698	56.307	52.916	51.446	49.975	48.505	47.034	45.564	44.094
100.0	74.982	71.565	68.148	64.731	63.337	61.944	60.551	59.158	57.764	56.371
102.5	87.793	84.424	81.054	77.684	76.643	75.601	74.560	73.518	72.477	71.436
105.0	101.772	98.523	95.275	92.026	90.951	89.876	88.800	87.725	86.650	85.575
107.5	116.085	112.873	109.660	106.447	105.519	104.592	103.664	102.736	101.809	100.881
110.0	131.956	128.867	125.778	122.689	121.937	121.186	120.434	119.682	118.930	118.179
112.5	148.399	145.627	142.854	140.082	139.187	138.292	137.396	136.501	135.606	134.711
115.0	164.692	162.031	159.369	156.708	155.966	155.225	154.483	153.741	153.000	152.258
117.5	181.870	179.276	176.682	174.089	173.552	173.016	172.479	171.942	171.406	170.869
120.0	200.694	198.236	195.779	193.321	192.480	191.639	190.798	189.957	189.115	188.274
122.5	219.997	217.804	215.611	213.418	212.306	211.194	210.083	208.971	207.859	206.747
125.0	238.379	236.213	234.048	231.883	231.045	230.207	229.370	228.532	227.694	226.856
127.5	256.245	253.859	251.473	249.087	248.474	247.861	247.248	246.635	246.022	245.409
130.0	274.334	271.696	269.057	266.419	266.119	265.818	265.518	265.217	264.917	264.617
132.5	293.309	290.634	287.960	285.286	284.672	284.057	283.443	282.828	282.214	281.599
135.0	312.100	309.693	307.285	304.878	304.150	303.421	302.693	301.965	301.237	300.509
137.5	330.835	328.798	326.762	324.725	323.914	323.102	322.291	321.480	320.668	319.857
140.0	348.916	347.334	345.752	344.170	343.349	342.527	341.706	340.884	340.063	339.241
142.5	366.322	365.014	363.706	362.398	361.776	361.154	360.532	359.910	359.288	358.667
145.0	382.696	381.597	380.499	379.401	378.891	378.381	377.870	377.360	376.850	376.340
147.5	397.606	396.529	395.453	394.376	393.888	393.401	392.913	392.425	391.937	391.449
150.0	411.347	410.168	408.989	407.811	407.539	407.267	406.995	406.723	406.451	406.179
152.5	424.942	423.831	422.721	421.611	421.278	420.946	420.614	420.282	419.949	419.617
155.0	437.926	436.986	436.046	435.106	434.714	434.321	433.929	433.536	433.144	432.751
157.5	450.463	449.682	448.901	448.120	447.778	447.436	447.093	446.751	446.409	446.066
160.0	461.364	460.677	459.989	459.302	459.050	458.798	458.547	458.295	458.043	457.791
162.5	471.494	470.903	470.312	469.722	469.533	469.344	469.155	468.967	468.778	468.589
165.0	480.320	479.859	479.397	478.936	478.824	478.711	478.599	478.486	478.374	478.262
167.5	488.049	487.727	487.406	487.084	487.012	486.941	486.869	486.797	486.726	486.654

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CANDELA TABULATION - (Cont.)

170.0	494.530	494.322	494.113	493.905	493.823	493.741	493.659	493.577	493.496	493.414
172.5	499.741	499.645	499.549	499.453	499.367	499.281	499.195	499.109	499.023	498.938
175.0	503.292	503.210	503.128	503.046	502.965	502.884	502.803	502.721	502.640	502.559
177.5	505.446	505.440	505.433	505.427	505.375	505.323	505.271	505.219	505.167	505.115
180.0	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890

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	10.890	8.935	6.979	8.935	10.890	12.846	14.801	16.757	18.712	20.668
92.5	17.415	15.151	12.886	15.151	17.415	19.679	21.943	24.207	26.471	28.735
95.0	29.376	27.523	25.669	27.523	29.376	31.230	33.083	34.936	36.790	38.643
97.5	42.623	41.153	39.682	41.153	42.623	44.094	45.564	47.034	48.505	49.975
100.0	54.978	53.585	52.191	53.585	54.978	56.371	57.764	59.158	60.551	61.944
102.5	70.394	69.353	68.312	69.353	70.394	71.436	72.477	73.518	74.560	75.601
105.0	84.499	83.424	82.349	83.424	84.499	85.575	86.650	87.725	88.800	89.876
107.5	99.953	99.025	98.098	99.025	99.953	100.881	101.809	102.736	103.664	104.592
110.0	117.427	116.675	115.923	116.675	117.427	118.179	118.930	119.682	120.434	121.186
112.5	133.816	132.920	132.025	132.920	133.816	134.711	135.606	136.501	137.396	138.292
115.0	151.516	150.775	150.033	150.775	151.516	152.258	153.000	153.741	154.483	155.225
117.5	170.332	169.796	169.259	169.796	170.332	170.869	171.406	171.942	172.479	173.016
120.0	187.433	186.592	185.751	186.592	187.433	188.274	189.115	189.957	190.798	191.639
122.5	205.636	204.524	203.412	204.524	205.636	206.747	207.859	208.971	210.083	211.194
125.0	226.019	225.181	224.343	225.181	226.019	226.856	227.694	228.532	229.370	230.207
127.5	244.796	244.183	243.570	244.183	244.796	245.409	246.022	246.635	247.248	247.861
130.0	264.316	264.016	263.715	264.016	264.316	264.617	264.917	265.217	265.518	265.818
132.5	280.985	280.371	279.756	280.371	280.985	281.599	282.214	282.828	283.443	284.057
135.0	299.781	299.053	298.325	299.053	299.781	300.509	301.237	301.965	302.693	303.421
137.5	319.046	318.234	317.423	318.234	319.046	319.857	320.668	321.480	322.291	323.102
140.0	338.420	337.599	336.777	337.599	338.420	339.241	340.063	340.884	341.706	342.527
142.5	358.045	357.423	356.801	357.423	358.045	358.667	359.288	359.910	360.532	361.154
145.0	375.829	375.319	374.809	375.319	375.829	376.340	376.850	377.360	377.870	378.381
147.5	390.961	390.473	389.985	390.473	390.961	391.449	391.937	392.425	392.913	393.401
150.0	405.907	405.635	405.363	405.635	405.907	406.179	406.451	406.723	406.995	407.267
152.5	419.285	418.953	418.620	418.953	419.285	419.617	419.949	420.282	420.614	420.946
155.0	432.359	431.966	431.574	431.966	432.359	432.751	433.144	433.536	433.929	434.321
157.5	445.724	445.381	445.039	445.381	445.724	446.066	446.409	446.751	447.093	447.436
160.0	457.540	457.288	457.036	457.288	457.540	457.791	458.043	458.295	458.547	458.798
162.5	468.400	468.211	468.023	468.211	468.400	468.589	468.778	468.967	469.155	469.344
165.0	478.150	478.037	477.925	478.037	478.150	478.262	478.374	478.486	478.599	478.711
167.5	486.582	486.511	486.439	486.511	486.582	486.654	486.726	486.797	486.869	486.941
170.0	493.332	493.250	493.168	493.250	493.332	493.414	493.496	493.577	493.659	493.741
172.5	498.851	498.766	498.680	498.766	498.851	498.938	499.023	499.109	499.195	499.281
175.0	502.478	502.397	502.315	502.397	502.478	502.559	502.640	502.721	502.803	502.884
177.5	505.063	505.011	504.958	505.011	505.063	505.115	505.167	505.219	505.271	505.323
180.0	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890

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	22.624	24.579	26.578	28.577	30.576	32.575	34.574	36.573	38.571	40.570
92.5	30.999	33.264	36.397	39.530	42.663	45.796	48.928	52.061	55.194	58.327
95.0	40.496	42.350	45.687	49.023	52.360	55.696	59.033	62.370	65.706	69.043
97.5	51.446	52.916	56.307	59.698	63.088	66.479	69.870	73.261	76.651	80.042
100.0	63.337	64.731	68.148	71.565	74.982	78.399	81.816	85.234	88.651	92.068
102.5	76.643	77.684	81.054	84.424	87.793	91.163	94.533	97.903	101.273	104.642

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CANDELA TABULATION - (Cont.)

105.0	90.951	92.026	95.275	98.523	101.772	105.021	108.269	111.518	114.767	118.015
107.5	105.519	106.447	109.660	112.873	116.085	119.298	122.511	125.724	128.937	132.150
110.0	121.937	122.689	125.778	128.867	131.956	135.045	138.134	141.223	144.312	147.401
112.5	139.187	140.082	142.854	145.627	148.399	151.171	153.944	156.716	159.488	162.261
115.0	155.966	156.708	159.369	162.031	164.692	167.353	170.015	172.676	175.337	177.999
117.5	173.552	174.089	176.682	179.276	181.870	184.463	187.057	189.651	192.244	194.838
120.0	192.480	193.321	195.779	198.236	200.694	203.151	205.609	208.067	210.525	212.982
122.5	212.306	213.418	215.611	217.804	219.997	222.190	224.383	226.576	228.770	230.963
125.0	231.045	231.883	234.048	236.213	238.379	240.544	242.710	244.875	247.040	249.206
127.5	248.474	249.087	251.473	253.859	256.245	258.631	261.017	263.403	265.789	268.174
130.0	266.119	266.419	269.057	271.696	274.334	276.973	279.611	282.249	284.887	287.526
132.5	284.672	285.286	287.960	290.634	293.309	295.983	298.657	301.331	304.005	306.680
135.0	304.150	304.878	307.285	309.693	312.100	314.508	316.915	319.323	321.731	324.138
137.5	323.914	324.725	326.762	328.798	330.835	332.872	334.909	336.945	338.982	341.019
140.0	343.349	344.170	345.752	347.334	348.916	350.498	352.081	353.662	355.245	356.827
142.5	361.776	362.398	363.706	365.014	366.322	367.630	368.938	370.246	371.554	372.861
145.0	378.891	379.401	380.499	381.597	382.696	383.794	384.892	385.990	387.089	388.187
147.5	393.888	394.376	395.453	396.529	397.606	398.682	399.759	400.836	401.912	402.989
150.0	407.539	407.811	408.989	410.168	411.347	412.526	413.705	414.883	416.062	417.241
152.5	421.278	421.611	422.721	423.831	424.942	426.052	427.163	428.273	429.384	430.494
155.0	434.714	435.106	436.046	436.986	437.926	438.866	439.806	440.745	441.685	442.625
157.5	447.778	448.120	448.901	449.682	450.463	451.244	452.025	452.806	453.587	454.368
160.0	459.050	459.302	459.989	460.677	461.364	462.052	462.739	463.427	464.114	464.802
162.5	469.533	469.722	470.312	470.903	471.494	472.085	472.675	473.266	473.857	474.448
165.0	478.824	478.936	479.397	479.859	480.320	480.782	481.243	481.705	482.166	482.628
167.5	487.012	487.084	487.406	487.727	488.049	488.370	488.691	489.013	489.334	489.656
170.0	493.823	493.905	494.113	494.322	494.530	494.739	494.947	495.156	495.364	495.572
172.5	499.367	499.453	499.549	499.645	499.741	499.837	499.934	500.030	500.126	500.222
175.0	502.965	503.046	503.128	503.210	503.292	503.374	503.455	503.537	503.619	503.701
177.5	505.375	505.427	505.433	505.440	505.446	505.452	505.458	505.464	505.470	505.476
180.0	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890

**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	42.569	43.372	44.174	44.977	45.779	46.582	47.384	48.187	48.989	49.792
92.5	61.460	63.706	65.952	68.198	70.444	72.690	74.935	77.181	79.427	81.673
95.0	72.380	75.021	77.662	80.303	82.944	85.585	88.226	90.867	93.508	96.149
97.5	83.433	86.186	88.940	91.693	94.446	97.200	99.953	102.707	105.460	108.213
100.0	95.485	98.272	101.060	103.847	106.634	109.421	112.208	114.995	117.783	120.570
102.5	108.012	110.866	113.721	116.575	119.429	122.283	125.137	127.991	130.846	133.700
105.0	121.264	124.161	127.058	129.955	132.851	135.748	138.645	141.542	144.439	147.335
107.5	135.362	138.236	141.109	143.982	146.855	149.728	152.601	155.474	158.347	161.221
110.0	150.490	153.314	156.138	158.961	161.785	164.609	167.432	170.256	173.080	175.904
112.5	165.033	167.850	170.667	173.484	176.301	179.118	181.935	184.752	187.569	190.386
115.0	180.660	183.507	186.355	189.202	192.049	194.897	197.744	200.592	203.439	206.287
117.5	197.432	200.196	202.960	205.724	208.488	211.253	214.017	216.781	219.545	222.309
120.0	215.440	218.023	220.607	223.190	225.774	228.357	230.941	233.524	236.108	238.691
122.5	233.156	235.647	238.139	240.630	243.122	245.613	248.104	250.596	253.088	255.579
125.0	251.371	253.718	256.066	258.413	260.760	263.108	265.455	267.802	270.150	272.497
127.5	270.560	272.685	274.809	276.933	279.057	281.181	283.305	285.429	287.553	289.677
130.0	290.164	292.037	293.910	295.783	297.656	299.529	301.402	303.275	305.148	307.021
132.5	309.354	311.052	312.751	314.449	316.147	317.846	319.544	321.243	322.941	324.640
135.0	326.546	328.146	329.746	331.347	332.947	334.547	336.148	337.748	339.348	340.949
137.5	343.056	344.670	346.283	347.897	349.511	351.125	352.739	354.353	355.967	357.580
140.0	358.409	360.082	361.755	363.429	365.102	366.776	368.449	370.122	371.796	373.469

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CANDELA TABULATION - (Cont.)

142.5	374.170	375.774	377.378	378.983	380.587	382.191	383.796	385.400	387.005	388.609
145.0	389.285	390.828	392.370	393.913	395.456	396.999	398.542	400.085	401.627	403.170
147.5	404.065	405.429	406.792	408.156	409.519	410.883	412.246	413.610	414.973	416.337
150.0	418.420	419.661	420.902	422.143	423.384	424.625	425.865	427.107	428.347	429.589
152.5	431.604	432.680	433.756	434.832	435.908	436.984	438.060	439.136	440.212	441.287
155.0	443.565	444.534	445.503	446.472	447.441	448.410	449.379	450.348	451.317	452.286
157.5	455.148	455.928	456.709	457.489	458.269	459.049	459.829	460.610	461.390	462.170
160.0	465.489	466.141	466.792	467.444	468.096	468.747	469.399	470.051	470.702	471.354
162.5	475.038	475.542	476.045	476.549	477.052	477.556	478.059	478.562	479.066	479.569
165.0	483.089	483.448	483.807	484.165	484.524	484.882	485.241	485.600	485.958	486.317
167.5	489.977	490.254	490.532	490.809	491.087	491.364	491.642	491.919	492.197	492.474
170.0	495.781	495.987	496.192	496.398	496.604	496.809	497.015	497.221	497.426	497.632
172.5	500.318	500.502	500.686	500.870	501.054	501.238	501.422	501.606	501.790	501.974
175.0	503.783	503.848	503.913	503.978	504.043	504.108	504.173	504.238	504.303	504.368
177.5	505.482	505.555	505.628	505.701	505.774	505.848	505.921	505.994	506.067	506.140
180.0	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890

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	49.632	49.472	49.313	49.153	48.993	48.834	48.674	48.514	48.355	48.514
92.5	82.243	82.812	83.382	83.952	84.522	85.092	85.661	86.231	86.801	86.231
95.0	97.020	97.892	98.764	99.635	100.507	101.378	102.250	103.121	103.993	103.121
97.5	109.134	110.055	110.976	111.897	112.818	113.739	114.660	115.581	116.502	115.581
100.0	121.519	122.467	123.416	124.365	125.313	126.262	127.211	128.159	129.108	128.159
102.5	134.768	135.837	136.905	137.974	139.042	140.111	141.179	142.247	143.316	142.247
105.0	148.340	149.345	150.350	151.355	152.360	153.364	154.369	155.374	156.379	155.374
107.5	162.221	163.222	164.223	165.224	166.224	167.225	168.226	169.227	170.228	169.227
110.0	176.900	177.896	178.892	179.888	180.884	181.880	182.876	183.872	184.868	183.872
112.5	191.443	192.501	193.558	194.616	195.674	196.731	197.789	198.847	199.904	198.847
115.0	207.308	208.329	209.350	210.371	211.392	212.413	213.434	214.455	215.476	214.455
117.5	223.280	224.251	225.222	226.194	227.164	228.135	229.106	230.077	231.049	230.077
120.0	239.685	240.678	241.672	242.665	243.658	244.651	245.645	246.638	247.632	246.638
122.5	256.603	257.628	258.652	259.677	260.701	261.726	262.750	263.775	264.799	263.775
125.0	273.448	274.400	275.351	276.303	277.254	278.205	279.157	280.108	281.060	280.108
127.5	290.596	291.515	292.434	293.353	294.272	295.190	296.109	297.028	297.947	297.028
130.0	307.885	308.750	309.613	310.478	311.342	312.206	313.070	313.934	314.798	313.934
132.5	325.500	326.361	327.222	328.083	328.943	329.804	330.665	331.525	332.386	331.525
135.0	341.788	342.627	343.466	344.305	345.144	345.983	346.822	347.661	348.500	347.661
137.5	358.364	359.148	359.931	360.715	361.498	362.282	363.065	363.849	364.633	363.849
140.0	374.179	374.889	375.599	376.308	377.018	377.728	378.438	379.148	379.858	379.148
142.5	389.247	389.885	390.523	391.161	391.800	392.437	393.076	393.714	394.352	393.714
145.0	403.792	404.414	405.036	405.658	406.279	406.901	407.523	408.145	408.767	408.145
147.5	416.890	417.444	417.997	418.551	419.104	419.658	420.211	420.765	421.318	420.765
150.0	429.998	430.407	430.817	431.226	431.635	432.045	432.454	432.864	433.273	432.864
152.5	441.690	442.093	442.495	442.898	443.301	443.703	444.106	444.508	444.911	444.508
155.0	452.584	452.882	453.179	453.477	453.775	454.072	454.370	454.668	454.966	454.668
157.5	462.450	462.729	463.008	463.288	463.567	463.847	464.126	464.406	464.685	464.406
160.0	471.577	471.800	472.024	472.247	472.470	472.694	472.917	473.140	473.364	473.140
162.5	479.731	479.893	480.054	480.216	480.378	480.540	480.701	480.863	481.025	480.863
165.0	486.437	486.557	486.676	486.796	486.916	487.036	487.155	487.275	487.395	487.275
167.5	492.564	492.654	492.744	492.834	492.924	493.014	493.104	493.194	493.284	493.194
170.0	497.668	497.704	497.740	497.776	497.811	497.847	497.883	497.919	497.955	497.919
172.5	501.940	501.905	501.871	501.836	501.802	501.767	501.733	501.698	501.664	501.698
175.0	504.373	504.377	504.382	504.387	504.391	504.396	504.401	504.405	504.410	504.405
177.5	506.102	506.064	506.026	505.988	505.950	505.912	505.875	505.837	505.799	505.837

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CANDELA TABULATION - (Cont.)

180.0 505.890 505.890 505.890 505.890 505.890 505.890 505.890 505.890 505.890 505.890

**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	48.674	48.834	48.993	49.153	49.313	49.472	49.632	49.792	48.989	48.187
92.5	85.661	85.092	84.522	83.952	83.382	82.812	82.243	81.673	79.427	77.181
95.0	102.250	101.378	100.507	99.635	98.764	97.892	97.020	96.149	93.508	90.867
97.5	114.660	113.739	112.818	111.897	110.976	110.055	109.134	108.213	105.460	102.707
100.0	127.211	126.262	125.313	124.365	123.416	122.467	121.519	120.570	117.783	114.995
102.5	141.179	140.111	139.042	137.974	136.905	135.837	134.768	133.700	130.846	127.991
105.0	154.369	153.364	152.360	151.355	150.350	149.345	148.340	147.335	144.439	141.542
107.5	168.226	167.225	166.224	165.224	164.223	163.222	162.221	161.221	158.347	155.474
110.0	182.876	181.880	180.884	179.888	178.892	177.896	176.900	175.904	173.080	170.256
112.5	197.789	196.731	195.674	194.616	193.558	192.501	191.443	190.386	187.569	184.752
115.0	213.434	212.413	211.392	210.371	209.350	208.329	207.308	206.287	203.439	200.592
117.5	229.106	228.135	227.164	226.194	225.222	224.251	223.280	222.309	219.545	216.781
120.0	245.645	244.651	243.658	242.665	241.672	240.678	239.685	238.691	236.108	233.524
122.5	262.750	261.726	260.701	259.677	258.652	257.628	256.603	255.579	253.088	250.596
125.0	279.157	278.205	277.254	276.303	275.351	274.400	273.448	272.497	270.150	267.802
127.5	296.109	295.190	294.272	293.353	292.434	291.515	290.596	289.677	287.553	285.429
130.0	313.070	312.206	311.342	310.478	309.613	308.750	307.885	307.021	305.148	303.275
132.5	330.665	329.804	328.943	328.083	327.222	326.361	325.500	324.640	322.941	321.243
135.0	346.822	345.983	345.144	344.305	343.466	342.627	341.788	340.949	339.348	337.748
137.5	363.065	362.282	361.498	360.715	359.931	359.148	358.364	357.580	355.967	354.353
140.0	378.438	377.728	377.018	376.308	375.599	374.889	374.179	373.469	371.796	370.122
142.5	393.076	392.437	391.800	391.161	390.523	389.885	389.247	388.609	387.005	385.400
145.0	407.523	406.901	406.279	405.658	405.036	404.414	403.792	403.170	401.627	400.085
147.5	420.211	419.658	419.104	418.551	417.997	417.444	416.890	416.337	414.973	413.610
150.0	432.454	432.045	431.635	431.226	430.817	430.407	429.998	429.589	428.347	427.107
152.5	444.106	443.703	443.301	442.898	442.495	442.093	441.690	441.287	440.212	439.136
155.0	454.370	454.072	453.775	453.477	453.179	452.882	452.584	452.286	451.317	450.348
157.5	464.126	463.847	463.567	463.288	463.008	462.729	462.450	462.170	461.390	460.610
160.0	472.917	472.694	472.470	472.247	472.024	471.800	471.577	471.354	470.702	470.051
162.5	480.701	480.540	480.378	480.216	480.054	479.893	479.731	479.569	479.066	478.562
165.0	487.155	487.036	486.916	486.796	486.676	486.557	486.437	486.317	485.958	485.600
167.5	493.104	493.014	492.924	492.834	492.744	492.654	492.564	492.474	492.197	491.919
170.0	497.883	497.847	497.811	497.776	497.740	497.704	497.668	497.632	497.426	497.221
172.5	501.733	501.767	501.802	501.836	501.871	501.905	501.940	501.974	501.790	501.606
175.0	504.401	504.396	504.391	504.387	504.382	504.377	504.373	504.368	504.303	504.238
177.5	505.875	505.912	505.950	505.988	506.026	506.064	506.102	506.140	506.067	505.994
180.0	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890

**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	47.384	46.582	45.779	44.977	44.174	43.372	42.569	40.570	38.571	36.573
92.5	74.935	72.690	70.444	68.198	65.952	63.706	61.460	58.327	55.194	52.061
95.0	88.226	85.585	82.944	80.303	77.662	75.021	72.380	69.043	65.706	62.370
97.5	99.953	97.200	94.446	91.693	88.940	86.186	83.433	80.042	76.651	73.261
100.0	112.208	109.421	106.634	103.847	101.060	98.272	95.485	92.068	88.651	85.234
102.5	125.137	122.283	119.429	116.575	113.721	110.866	108.012	104.642	101.273	97.903
105.0	138.645	135.748	132.851	129.955	127.058	124.161	121.264	118.015	114.767	111.518
107.5	152.601	149.728	146.855	143.982	141.109	138.236	135.362	132.150	128.937	125.724
110.0	167.432	164.609	161.785	158.961	156.138	153.314	150.490	147.401	144.312	141.223
112.5	181.935	179.118	176.301	173.484	170.667	167.850	165.033	162.261	159.488	156.716

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CANDELA TABULATION - (Cont.)

115.0	197.744	194.897	192.049	189.202	186.355	183.507	180.660	177.999	175.337	172.676
117.5	214.017	211.253	208.488	205.724	202.960	200.196	197.432	194.838	192.244	189.651
120.0	230.941	228.357	225.774	223.190	220.607	218.023	215.440	212.982	210.525	208.067
122.5	248.104	245.613	243.122	240.630	238.139	235.647	233.156	230.963	228.770	226.576
125.0	265.455	263.108	260.760	258.413	256.066	253.718	251.371	249.206	247.040	244.875
127.5	283.305	281.181	279.057	276.933	274.809	272.685	270.560	268.174	265.789	263.403
130.0	301.402	299.529	297.656	295.783	293.910	292.037	290.164	287.526	284.887	282.249
132.5	319.544	317.846	316.147	314.449	312.751	311.052	309.354	306.680	304.005	301.331
135.0	336.148	334.547	332.947	331.347	329.746	328.146	326.546	324.138	321.731	319.323
137.5	352.739	351.125	349.511	347.897	346.283	344.670	343.056	341.019	338.982	336.945
140.0	368.449	366.776	365.102	363.429	361.755	360.082	358.409	356.827	355.245	353.662
142.5	383.796	382.191	380.587	378.983	377.378	375.774	374.170	372.861	371.554	370.246
145.0	398.542	396.999	395.456	393.913	392.370	390.828	389.285	388.187	387.089	385.990
147.5	412.246	410.883	409.519	408.156	406.792	405.429	404.065	402.989	401.912	400.836
150.0	425.865	424.625	423.384	422.143	420.902	419.661	418.420	417.241	416.062	414.883
152.5	438.060	436.984	435.908	434.832	433.756	432.680	431.604	430.494	429.384	428.273
155.0	449.379	448.410	447.441	446.472	445.503	444.534	443.565	442.625	441.685	440.745
157.5	459.829	459.049	458.269	457.489	456.709	455.928	455.148	454.368	453.587	452.806
160.0	469.399	468.747	468.096	467.444	466.792	466.141	465.489	464.802	464.114	463.427
162.5	478.059	477.556	477.052	476.549	476.045	475.542	475.038	474.448	473.857	473.266
165.0	485.241	484.882	484.524	484.165	483.807	483.448	483.089	482.628	482.166	481.705
167.5	491.642	491.364	491.087	490.809	490.532	490.254	489.977	489.656	489.334	489.013
170.0	497.015	496.809	496.604	496.398	496.192	495.987	495.781	495.572	495.364	495.156
172.5	501.422	501.238	501.054	500.870	500.686	500.502	500.318	500.222	500.126	500.030
175.0	504.173	504.108	504.043	503.978	503.913	503.848	503.783	503.701	503.619	503.537
177.5	505.921	505.848	505.774	505.701	505.628	505.555	505.482	505.476	505.470	505.464
180.0	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890

**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	34.574	32.575	30.576	28.577	26.578	24.579	22.624	20.668	18.712	16.757
92.5	48.928	45.796	42.663	39.530	36.397	33.264	30.999	28.735	26.471	24.207
95.0	59.033	55.696	52.360	49.023	45.687	42.350	40.496	38.643	36.790	34.936
97.5	69.870	66.479	63.088	59.698	56.307	52.916	51.446	49.975	48.505	47.034
100.0	81.816	78.399	74.982	71.565	68.148	64.731	63.337	61.944	60.551	59.158
102.5	94.533	91.163	87.793	84.424	81.054	77.684	76.643	75.601	74.560	73.518
105.0	108.269	105.021	101.772	98.523	95.275	92.026	90.951	89.876	88.800	87.725
107.5	122.511	119.298	116.085	112.873	109.660	106.447	105.519	104.592	103.664	102.736
110.0	138.134	135.045	131.956	128.867	125.778	122.689	121.937	121.186	120.434	119.682
112.5	153.944	151.171	148.399	145.627	142.854	140.082	139.187	138.292	137.396	136.501
115.0	170.015	167.353	164.692	162.031	159.369	156.708	155.966	155.225	154.483	153.741
117.5	187.057	184.463	181.870	179.276	176.682	174.089	173.552	173.016	172.479	171.942
120.0	205.609	203.151	200.694	198.236	195.779	193.321	192.480	191.639	190.798	189.957
122.5	224.383	222.190	219.997	217.804	215.611	213.418	212.306	211.194	210.083	208.971
125.0	242.710	240.544	238.379	236.213	234.048	231.883	231.045	230.207	229.370	228.532
127.5	261.017	258.631	256.245	253.859	251.473	249.087	248.474	247.861	247.248	246.635
130.0	279.611	276.973	274.334	271.696	269.057	266.419	266.119	265.818	265.518	265.217
132.5	298.657	295.983	293.309	290.634	287.960	285.286	284.672	284.057	283.443	282.828
135.0	316.915	314.508	312.100	309.693	307.285	304.878	304.150	303.421	302.693	301.965
137.5	334.909	332.872	330.835	328.798	326.762	324.725	323.914	323.102	322.291	321.480
140.0	352.081	350.498	348.916	347.334	345.752	344.170	343.349	342.527	341.706	340.884
142.5	368.938	367.630	366.322	365.014	363.706	362.398	361.776	361.154	360.532	359.910
145.0	384.892	383.794	382.696	381.597	380.499	379.401	378.891	378.381	377.870	377.360
147.5	399.759	398.682	397.606	396.529	395.453	394.376	393.888	393.401	392.913	392.425
150.0	413.705	412.526	411.347	410.168	408.989	407.811	407.539	407.267	406.995	406.723

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CANDELA TABULATION - (Cont.)

152.5	427.163	426.052	424.942	423.831	422.721	421.611	421.278	420.946	420.614	420.282
155.0	439.806	438.866	437.926	436.986	436.046	435.106	434.714	434.321	433.929	433.536
157.5	452.025	451.244	450.463	449.682	448.901	448.120	447.778	447.436	447.093	446.751
160.0	462.739	462.052	461.364	460.677	459.989	459.302	459.050	458.798	458.547	458.295
162.5	472.675	472.085	471.494	470.903	470.312	469.722	469.533	469.344	469.155	468.967
165.0	481.243	480.782	480.320	479.859	479.397	478.936	478.824	478.711	478.599	478.486
167.5	488.691	488.370	488.049	487.727	487.406	487.084	487.012	486.941	486.869	486.797
170.0	494.947	494.739	494.530	494.322	494.113	493.905	493.823	493.741	493.659	493.577
172.5	499.934	499.837	499.741	499.645	499.549	499.453	499.367	499.281	499.195	499.109
175.0	503.455	503.374	503.292	503.210	503.128	503.046	502.965	502.884	502.803	502.721
177.5	505.458	505.452	505.446	505.440	505.433	505.427	505.375	505.323	505.271	505.219
180.0	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890	505.890

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	14.801	12.846	10.890	8.935	6.979
92.5	21.943	19.679	17.415	15.151	12.886
95.0	33.083	31.230	29.376	27.523	25.669
97.5	45.564	44.094	42.623	41.153	39.682
100.0	57.764	56.371	54.978	53.585	52.191
102.5	72.477	71.436	70.394	69.353	68.312
105.0	86.650	85.575	84.499	83.424	82.349
107.5	101.809	100.881	99.953	99.025	98.098
110.0	118.930	118.179	117.427	116.675	115.923
112.5	135.606	134.711	133.816	132.920	132.025
115.0	153.000	152.258	151.516	150.775	150.033
117.5	171.406	170.869	170.332	169.796	169.259
120.0	189.115	188.274	187.433	186.592	185.751
122.5	207.859	206.747	205.636	204.524	203.412
125.0	227.694	226.856	226.019	225.181	224.343
127.5	246.022	245.409	244.796	244.183	243.570
130.0	264.917	264.617	264.316	264.016	263.715
132.5	282.214	281.599	280.985	280.371	279.756
135.0	301.237	300.509	299.781	299.053	298.325
137.5	320.668	319.857	319.046	318.234	317.423
140.0	340.063	339.241	338.420	337.599	336.777
142.5	359.288	358.667	358.045	357.423	356.801
145.0	376.850	376.340	375.829	375.319	374.809
147.5	391.937	391.449	390.961	390.473	389.985
150.0	406.451	406.179	405.907	405.635	405.363
152.5	419.949	419.617	419.285	418.953	418.620
155.0	433.144	432.751	432.359	431.966	431.574
157.5	446.409	446.066	445.724	445.381	445.039
160.0	458.043	457.791	457.540	457.288	457.036
162.5	468.778	468.589	468.400	468.211	468.023
165.0	478.374	478.262	478.150	478.037	477.925
167.5	486.726	486.654	486.582	486.511	486.439
170.0	493.496	493.414	493.332	493.250	493.168
172.5	499.023	498.938	498.851	498.766	498.680
175.0	502.640	502.559	502.478	502.397	502.315
177.5	505.167	505.115	505.063	505.011	504.958
180.0	505.890	505.890	505.890	505.890	505.890

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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	201.01	N.A.	13.50
90-120	381.35	N.A.	25.60
90-130	606.89	N.A.	40.70
90-150	1101.17	N.A.	73.90
90-180	1489.63	N.A.	100.00
110-180	1288.62	N.A.	86.50
0-180	1489.63	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	73.76
100-110	127.25
110-120	180.34
120-130	225.54
130-140	250.04
140-150	244.25
150-160	204.45
160-170	136.18
170-180	47.83

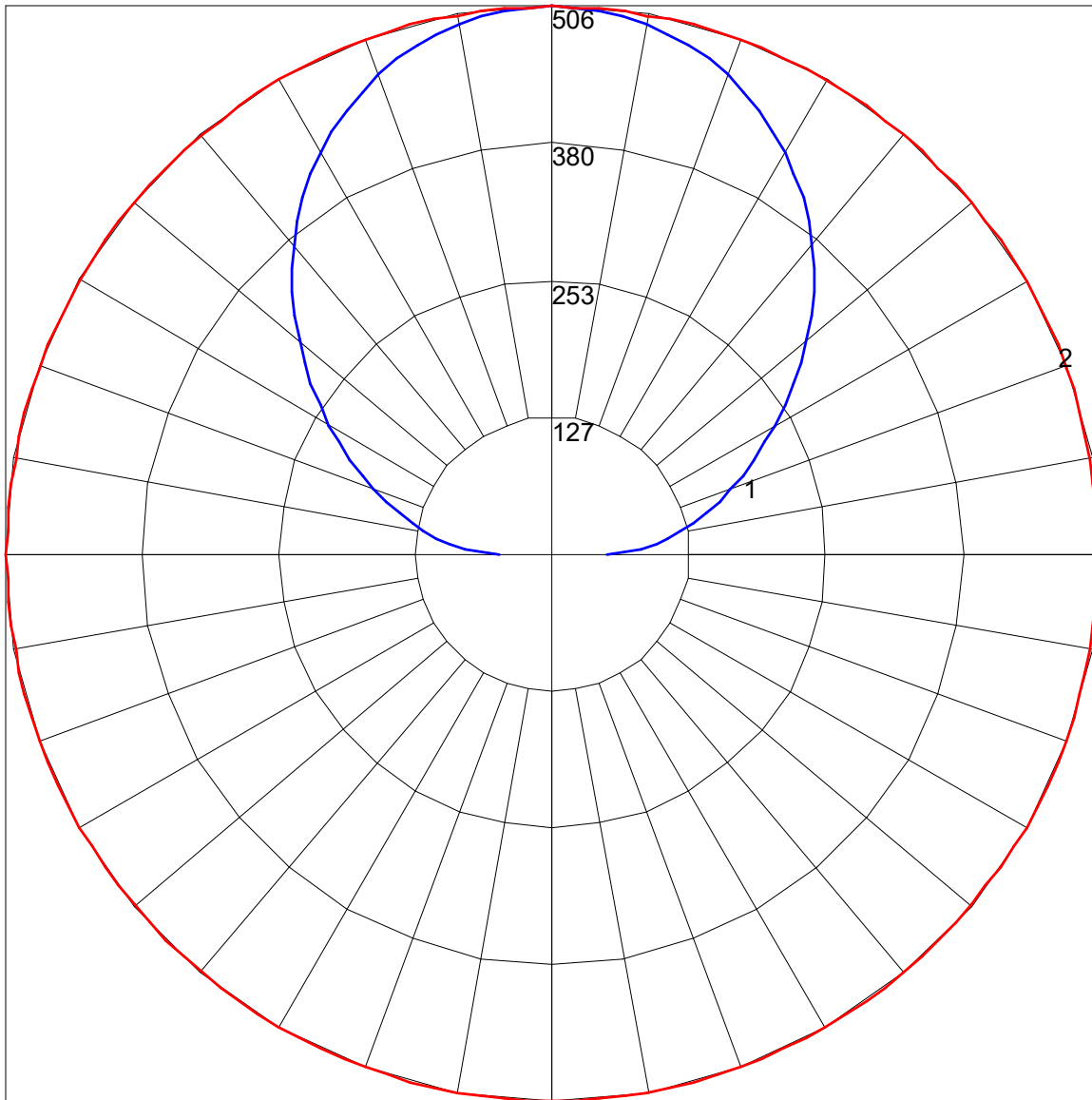
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	27	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 = 506.14 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.)