



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZIS-14-LED4-SO-SAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 5-18-2018

[TESTLAB] LIGHT LABORATORY, INC.

[ISSUE DATE] 2/23/2015

[MANUFAC] PRUDENTIAL LTG.

[LUMCAT] ZIS-14-LED4-MO-04-SAL

[LUMINAIRE] 1-3/4"L. X 48-1/4"W. X 3"H. LED LINEAR DIRECT LUMINAIRE DIFFUSED LENS

[LAMPCAT] N/A

[BALLAST] INPUT: 120-277VAC, 0.31-0.15A, 50/60HZ OUTPUT: 350-1050mA, 10-55VDC, 30W

[_AGI32] File was generated from AGI32

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8942
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	90
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.15 ft
Luminous Width (90-270)	1.14 ft
Luminous Height	0.14 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2367	2378	2218
55	2674	2663	2427
65	3228	3124	2786
75	4477	4016	3503
85	9325	6540	5411

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CANDELA TABULATION

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
0.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087
2.5	830.188	830.143	830.098	830.053	830.008	829.951	829.906	829.861	829.815	829.759
5.0	830.335	830.245	830.154	830.064	829.974	829.883	829.793	830.132	830.505	831.160
7.5	833.013	832.866	832.708	832.527	832.313	832.810	833.285	833.725	834.143	834.528
10.0	836.494	836.313	836.110	835.895	836.652	837.725	837.985	838.596	839.161	839.782
12.5	837.861	837.635	837.398	837.918	838.878	839.816	840.731	841.647	842.799	843.918
15.0	839.533	839.341	838.731	839.861	841.014	842.121	843.308	844.731	845.918	846.765
17.5	838.505	838.211	838.483	839.929	841.341	842.777	844.618	846.110	847.342	848.619
20.0	837.748	837.364	838.121	839.771	841.398	843.342	845.183	846.664	848.212	849.816
22.5	834.471	834.132	835.454	837.420	839.454	841.974	843.907	845.941	848.099	850.246
25.0	831.025	830.663	832.505	834.686	837.206	839.624	841.986	844.200	846.585	848.935
27.5	825.544	825.171	827.623	830.166	833.217	835.827	838.618	841.534	844.392	846.596
30.0	819.691	819.566	822.312	825.408	828.301	831.307	834.369	837.567	840.257	842.890
32.5	811.961	812.165	815.238	818.549	821.962	825.454	829.217	832.494	835.612	838.776
35.0	803.814	804.311	807.645	811.227	814.764	818.651	822.572	826.109	829.748	833.431
37.5	794.300	795.113	798.752	802.616	806.696	811.103	815.035	819.126	823.250	826.697
40.0	784.141	785.237	789.090	793.147	797.610	802.356	806.628	811.261	815.453	819.103
42.5	773.112	774.547	778.706	783.056	788.005	792.774	797.531	802.390	806.639	810.730
45.0	761.688	763.439	767.846	772.434	777.858	782.661	787.926	792.684	797.509	801.080
47.5	749.145	751.213	755.699	760.705	766.321	771.519	777.044	782.028	786.875	790.966
50.0	735.822	738.297	742.918	748.376	754.207	759.981	765.711	770.909	775.349	779.621
52.5	722.070	724.963	729.901	735.641	741.562	747.540	753.337	758.716	763.643	767.880
55.0	707.809	711.064	716.036	722.386	728.669	734.805	740.805	746.049	750.953	755.315
57.5	692.939	696.498	701.820	708.420	714.827	721.143	727.019	732.715	737.438	741.766
60.0	677.390	681.333	686.746	693.763	700.385	706.804	712.352	717.098	721.900	726.138
62.5	661.005	665.367	670.937	678.045	684.283	690.080	695.673	700.736	705.267	710.182
65.0	644.190	649.038	654.824	662.067	667.107	672.429	678.011	683.661	688.871	693.854
67.5	627.512	632.630	638.201	644.224	649.298	655.750	661.660	667.129	672.339	677.763
70.0	610.505	615.940	620.856	626.393	632.088	638.936	645.569	651.682	656.801	662.304
72.5	592.617	597.917	601.781	608.324	616.065	623.308	629.399	635.648	640.778	646.281
75.0	574.447	579.148	583.238	590.922	598.527	606.414	612.166	617.692	622.698	628.370
77.5	554.886	558.841	564.729	573.701	580.899	587.713	593.996	599.408	603.906	609.477
80.0	535.191	539.100	546.852	555.067	562.209	569.430	574.921	580.854	585.600	590.244
82.5	515.540	521.122	528.930	537.643	544.038	551.259	556.728	562.062	566.729	572.153
85.0	495.957	503.189	509.912	518.365	525.247	531.959	537.846	542.682	547.440	553.146
87.5	478.171	485.934	492.985	500.545	507.234	513.890	520.116	524.874	529.687	535.360
90.0	470.521	473.312	482.420	490.228	498.330	506.195	513.709	520.297	526.388	533.236
92.5	478.171	485.934	492.985	500.545	507.234	513.890	520.116	524.874	529.687	535.360
95.0	495.957	503.189	509.912	518.365	525.247	531.959	537.846	542.682	547.440	553.146
97.5	515.540	521.122	528.930	537.643	544.038	551.259	556.728	562.062	566.729	572.153
100.0	535.191	539.100	546.852	555.067	562.209	569.430	574.921	580.854	585.600	590.244
102.5	554.886	558.841	564.729	573.701	580.899	587.713	593.996	599.408	603.906	609.477
105.0	574.447	579.148	583.238	590.922	598.527	606.414	612.166	617.692	622.698	628.370
107.5	592.617	597.917	601.781	608.324	616.065	623.308	629.399	635.648	640.778	646.281
110.0	610.505	615.940	620.856	626.393	632.088	638.936	645.569	651.682	656.801	662.304
112.5	627.512	632.630	638.201	644.224	649.298	655.750	661.660	667.118	672.339	677.763
115.0	644.190	649.038	654.824	662.067	667.107	672.429	678.011	683.661	688.871	693.854
117.5	661.005	665.378	670.937	678.045	684.283	690.080	695.673	700.736	705.267	710.182
120.0	677.390	681.333	686.746	693.763	700.385	706.804	712.352	717.098	721.900	726.138
122.5	692.939	696.498	701.820	708.420	714.827	721.143	727.019	732.715	737.438	741.766
125.0	707.809	711.064	716.036	722.386	728.669	734.805	740.805	746.049	750.953	755.315
127.5	722.070	724.963	729.901	735.641	741.562	747.540	753.337	758.716	763.643	767.880
130.0	735.822	738.297	742.918	748.376	754.207	759.981	765.711	770.909	775.349	779.621
132.5	749.145	751.213	755.699	760.705	766.321	771.519	777.044	782.028	786.875	790.966

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CANDELA TABULATION - (Cont.)

135.0	761.688	763.439	767.846	772.434	777.858	782.661	787.926	792.684	797.509	801.080
137.5	773.112	774.547	778.706	783.056	788.005	792.774	797.531	802.390	806.639	810.730
140.0	784.141	785.237	789.090	793.147	797.610	802.356	806.628	811.261	815.453	819.103
142.5	794.300	795.113	798.752	802.616	806.696	811.103	815.035	819.126	823.250	826.697
145.0	803.814	804.311	807.645	811.227	814.764	818.651	822.572	826.109	829.748	833.431
147.5	811.961	812.165	815.238	818.549	821.962	825.454	829.217	832.494	835.612	838.776
150.0	819.691	819.566	822.312	825.408	828.301	831.307	834.369	837.567	840.257	842.890
152.5	825.544	825.171	827.623	830.166	833.217	835.827	838.618	841.534	844.392	846.596
155.0	831.025	830.663	832.505	834.686	837.206	839.624	841.986	844.200	846.585	848.935
157.5	834.471	834.132	835.454	837.420	839.454	841.974	843.907	845.941	848.099	850.246
160.0	837.748	837.364	838.121	839.771	841.398	843.342	845.183	846.664	848.212	849.816
162.5	838.505	838.211	838.483	839.929	841.341	842.777	844.618	846.110	847.342	848.619
165.0	839.533	839.341	838.731	839.861	841.014	842.121	843.308	844.731	845.918	846.765
167.5	837.861	837.635	837.398	837.918	838.878	839.816	840.731	841.647	842.799	843.918
170.0	836.494	836.313	836.110	835.895	836.652	837.725	837.985	838.596	839.161	839.782
172.5	833.013	832.866	832.708	832.527	832.313	832.810	833.285	833.725	834.143	834.528
175.0	830.335	830.245	830.154	830.064	829.974	829.883	829.793	830.132	830.505	831.160
177.5	830.188	830.143	830.098	830.053	830.008	829.951	829.906	829.861	829.815	829.759
180.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087

Vert. Angles **Horizontal Angles**

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087
2.5	829.714	829.669	829.612	829.691	829.782	829.940	830.087	830.222	830.358	830.482
5.0	831.239	831.590	831.929	832.256	832.584	832.889	833.183	833.465	834.200	834.019
7.5	834.878	835.194	835.545	835.951	836.336	836.663	836.957	837.454	837.477	838.087
10.0	840.494	841.161	841.793	841.986	842.189	842.347	842.494	842.652	842.765	842.822
12.5	844.698	845.330	845.918	846.573	847.229	847.884	848.155	848.359	848.494	848.585
15.0	847.602	848.483	849.353	850.155	850.913	851.636	852.291	852.721	852.947	853.184
17.5	849.941	851.229	852.947	853.625	854.359	854.800	855.184	855.557	855.885	856.156
20.0	851.365	852.879	854.133	855.037	856.077	856.755	857.647	858.404	858.664	858.800
22.5	852.382	853.839	855.048	856.133	857.184	858.167	858.902	859.071	859.128	859.139
25.0	850.720	852.641	854.303	856.088	857.647	858.337	858.743	858.879	858.947	858.947
27.5	848.788	850.969	852.980	854.427	855.444	856.427	857.354	858.020	858.472	858.145
30.0	845.590	848.280	850.076	851.557	852.992	854.201	854.969	855.365	855.918	855.851
32.5	842.076	844.008	845.895	847.749	849.749	850.348	851.195	852.020	852.528	852.856
35.0	836.426	838.641	840.991	842.957	844.472	845.771	847.376	847.760	848.472	848.427
37.5	829.793	832.674	834.968	836.855	838.742	840.652	841.760	842.720	843.093	843.262
40.0	822.403	825.081	827.601	830.426	832.731	834.222	835.511	836.550	837.285	837.466
42.5	813.950	816.719	819.487	822.120	824.606	827.013	829.047	829.454	830.053	830.380
45.0	804.311	807.622	810.583	813.521	816.142	818.052	819.792	821.352	822.278	822.018
47.5	794.740	797.825	801.012	804.085	806.843	808.741	810.877	811.577	812.074	812.289
50.0	783.384	787.339	790.830	793.893	796.627	798.661	799.938	800.865	801.667	801.791
52.5	771.801	775.790	779.463	782.909	785.101	787.192	789.169	789.734	790.356	790.582
55.0	759.970	763.801	767.383	770.310	773.010	774.897	776.536	778.016	778.739	778.559
57.5	745.913	750.309	753.721	756.671	759.416	761.948	763.722	764.953	765.383	765.372
60.0	730.681	735.065	738.873	741.822	744.817	747.292	749.167	750.433	751.156	751.021
62.5	716.250	719.923	723.324	726.115	728.850	731.336	733.709	734.839	735.506	735.641
65.0	699.470	704.917	707.018	709.674	712.567	714.996	717.358	718.454	719.075	719.279
67.5	682.904	687.040	689.944	692.622	695.571	697.843	699.978	701.312	701.719	702.284
70.0	667.683	671.322	674.203	676.350	678.249	680.316	682.407	684.215	684.226	684.836
72.5	652.326	656.168	657.762	659.423	660.767	662.429	664.011	665.400	665.751	665.909
75.0	633.512	638.156	640.258	641.817	642.507	643.806	645.185	646.089	646.484	646.563
77.5	613.567	617.963	621.455	622.946	623.624	624.992	626.167	626.901	627.421	627.342
80.0	594.504	597.951	601.081	602.539	603.522	604.471	605.680	606.753	607.669	607.138

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CANDELA TABULATION - (Cont.)

82.5	577.227	578.989	580.933	582.131	583.182	583.905	584.639	585.713	586.990	586.120
85.0	558.502	559.531	560.796	561.757	563.554	563.926	565.508	566.514	568.141	566.831
87.5	541.259	541.699	542.185	543.372	544.603	545.643	546.671	548.581	550.592	548.762
90.0	540.242	546.943	548.762	550.570	553.033	555.655	557.937	560.491	562.401	563.147
92.5	541.259	541.699	542.185	543.372	544.603	545.643	546.671	548.581	550.592	548.762
95.0	558.502	559.531	560.796	561.757	563.554	563.926	565.508	566.514	568.141	566.831
97.5	577.227	578.989	580.933	582.131	583.182	583.905	584.639	585.713	586.990	586.120
100.0	594.504	597.951	601.081	602.539	603.522	604.471	605.680	606.753	607.669	607.138
102.5	613.567	617.963	621.455	622.946	623.624	624.992	626.167	626.901	627.421	627.342
105.0	633.512	638.156	640.258	641.817	642.507	643.806	645.173	646.089	646.484	646.563
107.5	652.326	656.168	657.762	659.423	660.767	662.429	664.011	665.400	665.751	665.909
110.0	667.683	671.322	674.203	676.350	678.249	680.316	682.407	684.215	684.226	684.836
112.5	682.904	687.040	689.944	692.622	695.571	697.843	699.978	701.312	701.719	702.284
115.0	699.470	704.917	707.018	709.674	712.567	714.996	717.358	718.454	719.075	719.279
117.5	716.250	719.923	723.324	726.115	728.850	731.336	733.709	734.839	735.506	735.641
120.0	730.681	735.065	738.873	741.822	744.817	747.292	749.167	750.433	751.156	751.021
122.5	745.913	750.309	753.721	756.671	759.416	761.948	763.722	764.953	765.383	765.372
125.0	759.970	763.801	767.383	770.310	773.010	774.897	776.536	778.016	778.739	778.559
127.5	771.801	775.790	779.463	782.909	785.101	787.192	789.169	789.734	790.356	790.582
130.0	783.384	787.339	790.830	793.893	796.627	798.661	799.938	800.865	801.667	801.791
132.5	794.740	797.825	801.012	804.085	806.843	808.741	810.877	811.577	812.074	812.289
135.0	804.311	807.622	810.583	813.521	816.142	818.052	819.792	821.352	822.278	822.018
137.5	813.950	816.719	819.487	822.120	824.606	827.013	829.047	829.454	830.053	830.380
140.0	822.403	825.081	827.601	830.426	832.731	834.222	835.511	836.550	837.285	837.466
142.5	829.793	832.674	834.968	836.855	838.742	840.652	841.760	842.720	843.093	843.262
145.0	836.426	838.641	840.991	842.957	844.472	845.771	847.376	847.760	848.472	848.427
147.5	842.076	844.008	845.895	847.749	849.749	850.348	851.195	852.020	852.528	852.856
150.0	845.590	848.280	850.076	851.557	852.992	854.201	854.969	855.365	855.918	855.851
152.5	848.788	850.969	852.980	854.427	855.444	856.427	857.354	858.020	858.472	858.145
155.0	850.720	852.641	854.303	856.088	857.647	858.337	858.743	858.879	858.947	858.947
157.5	852.382	853.839	855.048	856.133	857.184	858.167	858.902	859.071	859.128	859.139
160.0	851.365	852.879	854.133	855.037	856.077	856.755	857.647	858.404	858.664	858.800
162.5	849.941	851.229	852.947	853.625	854.359	854.800	855.184	855.557	855.885	856.156
165.0	847.602	848.483	849.353	850.155	850.913	851.636	852.291	852.721	852.947	853.184
167.5	844.698	845.330	845.918	846.573	847.229	847.884	848.155	848.359	848.494	848.585
170.0	840.494	841.161	841.793	841.986	842.189	842.347	842.494	842.652	842.765	842.822
172.5	834.878	835.194	835.533	835.951	836.336	836.663	836.957	837.454	837.477	838.087
175.0	831.239	831.590	831.929	832.256	832.584	832.889	833.183	833.465	834.200	834.019
177.5	829.714	829.669	829.612	829.691	829.782	829.940	830.087	830.222	830.358	830.482
180.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087

Vert. Angles **Horizontal Angles**

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087
2.5	830.595	830.708	830.810	830.912	830.991	831.070	831.138	831.205	831.262	831.296
5.0	834.347	834.652	834.946	835.206	835.454	835.669	835.872	836.042	836.200	836.324
7.5	838.370	838.675	838.946	839.251	839.488	839.748	839.974	840.178	840.358	840.505
10.0	842.833	842.799	842.709	842.686	843.466	843.737	844.065	844.347	844.596	844.799
12.5	848.607	848.573	848.268	847.895	847.477	847.014	846.845	847.376	847.432	847.579
15.0	853.173	852.890	852.551	852.144	851.681	851.139	850.540	849.828	849.511	849.783
17.5	856.370	856.483	856.789	855.975	855.060	854.009	852.924	851.783	850.607	849.500
20.0	858.359	857.952	857.659	856.992	856.438	855.455	854.212	852.924	851.749	850.178
22.5	859.128	858.676	858.167	857.602	856.969	856.156	854.981	853.263	851.500	849.715
25.0	858.890	858.642	858.167	857.161	856.111	855.026	853.907	852.585	850.687	849.150
27.5	857.625	857.048	856.427	855.862	855.071	853.794	852.223	850.461	848.709	846.189

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CANDELA TABULATION - (Cont.)

30.0	855.907	855.512	854.596	853.286	852.054	850.822	848.969	847.059	844.935	842.799
32.5	852.585	851.986	851.500	849.929	848.472	847.104	845.850	843.149	840.528	837.669
35.0	848.381	847.715	847.014	846.426	844.200	842.019	839.940	837.861	834.934	831.838
37.5	843.161	842.912	841.601	840.121	838.516	836.573	834.234	831.714	828.776	825.092
40.0	837.036	836.336	835.601	834.109	831.906	829.454	826.753	823.770	820.821	817.476
42.5	830.550	829.092	827.714	826.572	823.906	821.194	818.482	815.747	812.402	808.831
45.0	821.408	820.866	819.114	817.205	815.001	812.606	809.464	806.470	802.842	798.853
47.5	812.583	811.317	809.588	807.905	805.871	802.865	799.995	796.401	792.944	788.548
50.0	801.441	800.967	799.882	797.780	795.249	792.333	789.135	785.429	781.372	777.259
52.5	790.401	789.633	788.774	786.604	783.904	781.056	777.508	773.519	769.507	765.213
55.0	778.141	777.282	775.745	773.858	771.835	768.332	764.795	761.078	756.942	752.297
57.5	765.270	763.609	761.857	760.027	757.281	754.343	750.919	747.088	742.670	738.636
60.0	750.105	748.806	747.122	744.851	742.229	739.122	735.427	731.347	727.234	722.940
62.5	734.511	733.087	731.110	728.986	726.556	723.867	720.398	715.640	710.702	706.340
65.0	718.443	716.804	714.883	712.567	710.476	708.589	704.634	699.493	694.170	689.447
67.5	701.696	699.978	698.137	695.775	693.436	691.345	688.057	683.187	677.695	672.825
70.0	684.452	682.689	680.848	679.266	677.548	675.220	672.000	667.468	661.931	656.937
72.5	665.626	664.395	662.948	661.909	660.835	659.570	656.937	650.982	645.456	640.631
75.0	646.349	645.524	644.236	643.987	643.128	641.422	637.625	632.664	627.048	621.929
77.5	627.071	626.314	624.890	624.743	623.850	621.161	617.014	612.709	607.669	603.070
80.0	606.403	605.612	604.742	604.166	602.979	600.403	597.148	593.193	588.221	584.097
82.5	585.272	584.798	584.210	583.442	582.379	580.718	578.718	574.469	569.136	564.503
85.0	565.373	564.491	563.678	562.627	561.644	560.627	559.723	554.717	549.112	544.276
87.5	547.067	545.914	545.236	543.801	543.044	542.230	542.298	536.151	530.275	525.665
90.0	563.056	562.107	561.101	559.949	559.000	558.661	556.954	550.886	545.293	538.965
92.5	547.067	545.914	545.236	543.801	543.044	542.230	542.298	536.151	530.275	525.665
95.0	565.373	564.491	563.678	562.627	561.644	560.627	559.723	554.717	549.112	544.276
97.5	585.272	584.798	584.210	583.442	582.379	580.718	578.718	574.469	569.136	564.503
100.0	606.403	605.612	604.742	604.166	602.979	600.403	597.148	593.193	588.221	584.097
102.5	627.071	626.314	624.890	624.743	623.850	621.161	617.014	612.709	607.669	603.070
105.0	646.349	645.524	644.236	643.987	643.128	641.422	637.625	632.664	627.048	621.929
107.5	665.626	664.395	662.948	661.909	660.835	659.570	656.937	650.982	645.456	640.631
110.0	684.452	682.689	680.848	679.266	677.548	675.220	672.000	667.468	661.931	656.937
112.5	701.696	699.978	698.137	695.775	693.436	691.345	688.057	683.187	677.695	672.825
115.0	718.443	716.804	714.883	712.567	710.476	708.589	704.634	699.493	694.170	689.447
117.5	734.511	733.087	731.110	728.986	726.556	723.867	720.398	715.640	710.702	706.340
120.0	750.105	748.806	747.122	744.851	742.229	739.122	735.427	731.347	727.234	722.940
122.5	765.270	763.609	761.857	760.027	757.281	754.343	750.919	747.088	742.670	738.636
125.0	778.141	777.282	775.745	773.858	771.835	768.332	764.795	761.078	756.942	752.297
127.5	790.401	789.633	788.774	786.604	783.904	781.056	777.508	773.519	769.507	765.213
130.0	801.441	800.967	799.882	797.780	795.249	792.333	789.135	785.429	781.372	777.259
132.5	812.583	811.317	809.588	807.905	805.871	802.865	799.995	796.401	792.944	788.548
135.0	821.408	820.866	819.114	817.205	815.001	812.606	809.464	806.470	802.842	798.853
137.5	830.550	829.092	827.714	826.572	823.906	821.194	818.482	815.747	812.402	808.831
140.0	837.036	836.336	835.601	834.109	831.906	829.454	826.753	823.770	820.821	817.476
142.5	843.161	842.912	841.601	840.121	838.516	836.573	834.234	831.714	828.776	825.092
145.0	848.381	847.715	847.014	846.426	844.200	842.019	839.940	837.861	834.934	831.838
147.5	852.585	851.986	851.500	849.929	848.472	847.104	845.850	843.149	840.528	837.669
150.0	855.907	855.512	854.596	853.286	852.054	850.822	848.969	847.059	844.935	842.799
152.5	857.625	857.048	856.427	855.862	855.071	853.794	852.223	850.461	848.709	846.189
155.0	858.890	858.642	858.167	857.161	856.111	855.026	853.907	852.585	850.687	849.150
157.5	859.128	858.676	858.167	857.602	856.969	856.156	854.981	853.263	851.500	849.715
160.0	858.359	857.952	857.659	856.992	856.438	855.455	854.212	852.924	851.749	850.178
162.5	856.370	856.483	856.789	855.975	855.060	854.009	852.924	851.783	850.607	849.500
165.0	853.173	852.890	852.551	852.144	851.681	851.139	850.540	849.828	849.511	849.783
167.5	848.607	848.573	848.268	847.895	847.477	847.014	846.845	847.376	847.432	847.579

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CANDELA TABULATION - (Cont.)

170.0	842.833	842.799	842.709	842.686	843.466	843.737	844.065	844.347	844.596	844.799
172.5	838.370	838.675	838.946	839.251	839.488	839.748	839.974	840.178	840.358	840.505
175.0	834.347	834.652	834.946	835.206	835.454	835.669	835.872	836.042	836.200	836.324
177.5	830.595	830.708	830.810	830.912	830.991	831.070	831.138	831.205	831.262	831.296
180.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087

**Vert.
Angles**

Horizontal Angles

	75.0	77.5	80.0	82.5	85.0	87.5	90.0	92.5	95.0	97.5
0.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087
2.5	831.341	831.748	831.397	831.465	831.533	831.590	831.635	831.590	831.533	831.465
5.0	836.437	836.516	836.573	836.607	836.618	836.731	836.833	836.731	836.855	836.629
7.5	840.618	840.709	840.765	840.799	840.799	840.822	840.957	840.822	840.822	840.822
10.0	844.969	845.104	845.195	845.251	845.263	845.477	845.387	845.251	845.285	845.274
12.5	847.703	847.782	847.839	847.839	847.816	847.749	847.839	847.771	847.839	847.873
15.0	849.850	849.884	849.884	849.850	849.783	849.670	849.715	849.703	849.805	849.873
17.5	849.715	849.647	849.545	849.421	849.285	849.116	849.071	849.150	849.308	849.455
20.0	848.901	849.071	848.946	848.788	848.619	848.404	848.280	848.438	848.641	848.822
22.5	847.884	846.811	846.619	846.325	846.031	845.737	845.466	845.760	846.065	846.359
25.0	846.528	844.325	843.782	843.387	843.003	842.607	842.969	842.641	843.036	843.421
27.5	843.466	840.889	839.048	838.675	838.223	837.782	837.511	837.816	838.257	838.709
30.0	840.370	837.059	834.177	833.511	832.979	832.482	832.268	832.516	833.013	833.533
32.5	834.720	831.341	827.996	826.290	825.657	825.081	824.866	825.115	825.691	826.312
35.0	828.855	825.386	821.521	818.572	817.962	817.306	817.159	817.340	817.996	818.595
37.5	821.307	817.623	813.385	809.532	808.515	807.735	807.566	807.758	808.549	809.668
40.0	813.351	809.532	805.057	800.718	798.729	797.791	797.656	797.814	798.763	800.842
42.5	804.334	799.780	795.181	790.424	787.497	786.491	786.423	786.525	787.520	790.548
45.0	794.593	789.644	785.147	780.016	776.073	775.022	775.078	775.044	776.107	780.141
47.5	783.813	778.536	773.406	768.050	762.897	761.891	761.993	761.925	762.999	768.174
50.0	772.242	767.044	761.383	755.993	750.365	748.557	748.715	748.580	750.489	756.117
52.5	760.219	754.670	748.546	742.862	736.929	734.285	734.511	734.319	737.042	742.986
55.0	747.393	741.630	735.540	729.562	723.415	719.855	720.194	719.878	723.528	729.675
57.5	733.743	728.115	721.595	715.053	708.646	704.103	704.634	704.137	708.759	715.166
60.0	718.262	713.064	706.770	700.340	693.933	688.306	688.927	688.306	694.046	700.453
62.5	701.425	696.351	690.633	684.373	677.706	671.322	671.853	671.322	677.808	684.464
65.0	684.023	678.441	672.983	667.717	661.400	654.247	654.677	654.236	661.491	667.807
67.5	667.355	661.547	655.298	649.761	644.258	637.263	637.196	637.331	644.337	649.852
70.0	651.230	644.688	637.761	631.512	626.336	620.472	619.624	620.539	626.415	631.591
72.5	634.506	628.427	621.274	613.319	606.979	601.861	600.753	601.917	607.047	613.387
75.0	616.573	610.844	603.262	595.295	587.781	582.707	581.792	582.752	587.849	595.352
77.5	597.668	591.634	584.888	577.611	568.842	561.972	561.101	562.005	568.887	577.667
80.0	578.255	572.627	565.678	558.231	550.152	541.643	540.366	541.677	550.197	558.265
82.5	559.260	553.847	546.660	540.027	531.518	523.167	519.472	523.201	531.552	540.061
85.0	539.541	533.688	527.009	520.015	511.630	504.534	498.590	504.545	511.653	520.037
87.5	520.953	514.749	508.138	501.381	493.821	486.589	479.504	486.601	493.833	501.392
90.0	532.840	526.580	519.981	510.907	503.483	502.477	502.127	502.522	503.573	511.189
92.5	520.953	514.749	508.138	501.381	493.821	486.589	479.504	486.601	493.833	501.392
95.0	539.541	533.688	527.009	520.015	511.630	504.534	498.590	504.545	511.653	520.037
97.5	559.260	553.847	546.660	540.027	531.518	523.167	519.472	523.201	531.552	540.061
100.0	578.255	572.627	565.678	558.231	550.152	541.643	540.366	541.677	550.197	558.265
102.5	597.668	591.634	584.888	577.611	568.842	561.972	561.101	562.005	568.887	577.667
105.0	616.573	610.844	603.262	595.295	587.781	582.707	581.792	582.752	587.849	595.352
107.5	634.506	628.427	621.274	613.319	606.979	601.861	600.753	601.917	607.047	613.387
110.0	651.230	644.688	637.761	631.512	626.336	620.472	619.624	620.539	626.415	631.591
112.5	667.355	661.547	655.298	649.761	644.258	637.263	637.196	637.331	644.337	649.852
115.0	684.023	678.441	672.983	667.717	661.400	654.247	654.677	654.236	661.491	667.807

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CANDELA TABULATION - (Cont.)

117.5	701.425	696.351	690.633	684.373	677.706	671.322	671.853	671.322	677.808	684.464
120.0	718.262	713.064	706.770	700.340	693.933	688.306	688.927	688.306	694.046	700.453
122.5	733.743	728.115	721.595	715.053	708.646	704.103	704.634	704.137	708.759	715.166
125.0	747.393	741.630	735.540	729.562	723.415	719.855	720.194	719.878	723.528	729.675
127.5	760.219	754.670	748.546	742.862	736.929	734.285	734.511	734.319	737.042	742.986
130.0	772.242	767.044	761.383	755.993	750.365	748.557	748.715	748.580	750.489	756.117
132.5	783.813	778.536	773.406	768.050	762.897	761.891	761.993	761.925	762.999	768.174
135.0	794.593	789.644	785.147	780.016	776.073	775.022	775.078	775.044	776.107	780.141
137.5	804.334	799.780	795.181	790.424	787.497	786.491	786.423	786.525	787.520	790.548
140.0	813.351	809.532	805.057	800.718	798.729	797.791	797.656	797.814	798.763	800.842
142.5	821.307	817.623	813.385	809.532	808.515	807.735	807.566	807.758	808.549	809.668
145.0	828.855	825.386	821.521	818.572	817.962	817.306	817.159	817.340	817.996	818.595
147.5	834.720	831.341	827.996	826.290	825.657	825.081	824.866	825.115	825.691	826.312
150.0	840.370	837.059	834.177	833.511	832.979	832.482	832.268	832.516	833.013	833.533
152.5	843.466	840.889	839.048	838.675	838.223	837.782	837.511	837.816	838.257	838.709
155.0	846.528	844.325	843.782	843.387	843.003	842.607	842.969	842.641	843.036	843.421
157.5	847.884	846.811	846.619	846.325	846.031	845.737	845.466	845.760	846.065	846.359
160.0	848.901	849.071	848.946	848.788	848.619	848.404	848.280	848.438	848.641	848.822
162.5	849.715	849.647	849.545	849.421	849.285	849.116	849.071	849.150	849.308	849.455
165.0	849.850	849.884	849.884	849.850	849.783	849.670	849.715	849.703	849.805	849.873
167.5	847.703	847.782	847.839	847.839	847.816	847.749	847.839	847.771	847.839	847.873
170.0	844.969	845.104	845.195	845.251	845.263	845.477	845.387	845.251	845.285	845.274
172.5	840.618	840.709	840.765	840.799	840.799	840.822	840.957	840.822	840.822	840.822
175.0	836.437	836.516	836.573	836.607	836.618	836.731	836.833	836.731	836.855	836.629
177.5	831.341	831.748	831.397	831.465	831.533	831.590	831.635	831.590	831.533	831.465
180.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087

Vert. Angles **Horizontal Angles**

	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087
2.5	831.544	831.397	831.364	831.330	831.284	831.228	831.171	831.104	831.025	830.934
5.0	836.595	836.539	836.460	836.358	836.223	836.076	835.895	835.703	835.477	835.228
7.5	840.799	840.743	840.652	840.528	840.381	840.211	840.008	839.771	839.511	839.274
10.0	845.217	845.127	845.003	844.822	844.618	844.370	844.087	844.189	843.488	842.720
12.5	847.862	847.816	847.726	847.613	847.455	847.263	846.867	847.150	847.624	848.042
15.0	849.907	849.907	849.873	849.805	849.534	849.975	850.687	851.285	851.817	852.291
17.5	849.568	849.670	849.749	849.557	850.754	851.930	853.060	854.156	855.195	856.111
20.0	848.969	849.093	848.924	850.314	851.884	853.060	854.359	855.591	856.574	857.128
22.5	846.641	846.833	848.031	849.862	851.647	853.399	855.116	856.280	857.094	857.726
25.0	843.805	844.472	846.675	849.297	850.833	852.721	854.043	855.161	856.235	857.286
27.5	839.070	841.036	843.613	846.336	848.856	850.607	852.359	853.918	855.195	855.986
30.0	834.324	837.206	840.517	842.935	845.093	847.195	849.105	850.958	852.178	853.410
32.5	828.606	831.477	834.867	837.805	840.675	843.285	845.997	847.229	848.946	850.065
35.0	821.668	825.533	829.002	831.985	835.070	837.997	840.076	842.155	844.336	846.562
37.5	813.532	817.770	821.453	825.239	828.911	831.849	834.369	836.720	838.652	840.245
40.0	805.204	809.668	813.510	817.623	820.956	823.906	826.889	829.589	832.042	834.245
42.5	795.317	799.916	804.481	808.967	812.538	815.883	818.617	821.329	824.030	826.505
45.0	785.282	789.780	794.740	798.989	802.978	806.605	809.600	812.741	815.125	817.318
47.5	773.530	778.672	783.949	788.683	793.079	796.537	800.130	802.989	805.814	808.018
50.0	761.507	767.191	772.378	777.395	781.497	785.565	789.260	792.458	795.373	797.893
52.5	748.670	754.806	760.343	765.338	769.632	773.654	777.632	781.180	784.028	786.729
55.0	735.698	741.766	747.518	752.422	757.066	761.202	764.908	768.456	771.948	773.960
57.5	721.720	728.240	733.867	738.749	742.783	747.201	751.032	754.456	757.394	760.128
60.0	706.894	713.177	718.375	723.053	727.347	731.460	735.540	739.235	742.331	744.952
62.5	690.746	696.464	701.538	706.453	710.815	715.753	720.499	723.968	726.658	729.087

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CANDELA TABULATION - (Cont.)

65.0	673.084	678.542	684.125	689.549	694.283	699.606	704.724	708.691	710.567	712.668
67.5	655.400	661.638	667.446	672.915	677.797	683.277	688.147	691.436	693.526	695.865
70.0	637.851	644.778	651.321	657.027	662.022	667.559	672.090	675.311	677.638	679.345
72.5	621.353	628.506	634.585	640.710	645.535	651.061	657.027	659.649	661.491	661.977
75.0	603.330	610.912	616.641	621.997	627.127	632.732	637.704	641.490	643.196	644.055
77.5	584.944	591.691	597.725	603.137	607.725	612.765	617.070	621.217	623.907	624.788
80.0	565.723	572.673	578.300	584.142	588.267	593.239	597.205	600.448	603.024	604.211
82.5	546.705	553.881	559.293	564.548	569.170	574.515	578.752	580.763	582.413	583.475
85.0	527.032	533.722	539.564	544.310	549.135	554.751	559.745	560.649	561.666	562.650
87.5	508.161	514.760	520.964	525.676	530.286	536.162	542.310	542.253	543.055	543.812
90.0	520.275	526.851	533.145	539.270	545.270	551.191	557.248	558.943	559.260	560.220
92.5	508.161	514.760	520.964	525.676	530.286	536.162	542.310	542.253	543.055	543.812
95.0	527.032	533.722	539.564	544.310	549.135	554.751	559.745	560.649	561.666	562.650
97.5	546.705	553.881	559.293	564.548	569.170	574.515	578.752	580.763	582.413	583.475
100.0	565.723	572.673	578.300	584.142	588.267	593.239	597.205	600.448	603.024	604.211
102.5	584.944	591.691	597.725	603.137	607.725	612.765	617.070	621.217	623.907	624.788
105.0	603.330	610.912	616.641	621.997	627.127	632.732	637.704	641.490	643.196	644.055
107.5	621.353	628.506	634.585	640.710	645.535	651.061	657.027	659.649	661.491	661.977
110.0	637.851	644.778	651.321	657.027	662.022	667.559	672.090	675.311	677.638	679.345
112.5	655.400	661.638	667.446	672.915	677.797	683.277	688.147	691.436	693.526	695.865
115.0	673.084	678.542	684.125	689.549	694.283	699.606	704.724	708.691	710.567	712.668
117.5	690.746	696.464	701.538	706.453	710.815	715.753	720.499	723.968	726.658	729.087
120.0	706.894	713.177	718.375	723.053	727.347	731.460	735.540	739.235	742.331	744.952
122.5	721.720	728.240	733.867	738.749	742.783	747.201	751.032	754.456	757.394	760.128
125.0	735.698	741.766	747.518	752.422	757.066	761.202	764.908	768.456	771.948	773.960
127.5	748.670	754.806	760.343	765.338	769.632	773.654	777.632	781.180	784.028	786.729
130.0	761.507	767.191	772.378	777.395	781.497	785.565	789.260	792.458	795.373	797.893
132.5	773.530	778.672	783.949	788.683	793.079	796.537	800.130	802.989	805.814	808.018
135.0	785.282	789.780	794.740	798.989	802.978	806.605	809.600	812.741	815.125	817.318
137.5	795.317	799.916	804.481	808.967	812.538	815.883	818.617	821.329	824.030	826.505
140.0	805.204	809.668	813.510	817.623	820.956	823.906	826.889	829.589	832.042	834.245
142.5	813.532	817.770	821.453	825.239	828.911	831.849	834.369	836.720	838.652	840.245
145.0	821.668	825.533	829.002	831.985	835.070	837.997	840.076	842.155	844.336	846.562
147.5	828.606	831.477	834.867	837.805	840.675	843.285	845.997	847.229	848.946	850.065
150.0	834.324	837.206	840.517	842.935	845.093	847.195	849.105	850.958	852.178	853.410
152.5	839.070	841.036	843.613	846.336	848.856	850.607	852.359	853.918	855.195	855.986
155.0	843.805	844.472	846.675	849.297	850.833	852.721	854.043	855.161	856.235	857.286
157.5	846.641	846.833	848.031	849.862	851.647	853.399	855.116	856.280	857.094	857.726
160.0	848.969	849.093	848.924	850.314	851.884	853.060	854.359	855.591	856.574	857.128
162.5	849.568	849.670	849.749	849.557	850.754	851.930	853.060	854.156	855.195	856.111
165.0	849.907	849.907	849.873	849.805	849.534	849.975	850.687	851.285	851.817	852.291
167.5	847.862	847.816	847.726	847.613	847.455	847.263	846.867	847.150	847.624	848.042
170.0	845.217	845.127	845.003	844.822	844.618	844.370	844.087	844.189	843.488	842.720
172.5	840.799	840.743	840.652	840.528	840.381	840.211	840.008	839.771	839.511	839.274
175.0	836.595	836.539	836.460	836.358	836.223	836.076	835.895	835.703	835.477	835.228
177.5	831.544	831.397	831.364	831.330	831.284	831.228	831.171	831.104	831.025	830.934
180.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087

**Vert.
Angles**

Horizontal Angles

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087
2.5	830.844	830.742	830.629	830.505	830.380	830.245	830.109	829.962	829.815	829.725
5.0	834.968	834.686	834.369	834.042	834.222	833.488	833.205	832.912	832.607	832.279
7.5	838.968	839.149	838.392	838.110	837.499	837.386	837.104	836.810	836.471	836.098
10.0	842.856	842.935	842.980	842.969	842.901	842.799	842.641	842.494	842.325	842.121

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CANDELA TABULATION - (Cont.)

12.5	848.404	848.709	848.754	848.720	848.641	848.494	848.291	847.997	847.342	846.698
15.0	852.698	853.037	853.308	853.297	853.071	852.845	852.415	851.749	851.037	850.280
17.5	856.653	856.608	856.495	856.280	856.009	855.681	855.297	854.913	854.483	853.738
20.0	857.783	858.077	858.484	858.924	858.777	858.529	857.681	856.868	856.201	855.150
22.5	858.291	858.800	859.252	859.342	859.241	859.184	859.015	858.280	857.297	856.246
25.0	858.291	858.868	859.015	859.071	859.060	858.992	858.856	858.450	857.760	856.178
27.5	856.902	857.173	857.749	858.269	858.585	858.133	857.455	856.529	855.546	854.517
30.0	854.721	855.636	856.020	855.964	855.851	855.466	855.071	854.291	853.071	851.636
32.5	851.636	852.099	852.698	852.958	852.630	852.122	851.297	850.438	849.816	847.816
35.0	847.138	847.828	848.494	848.528	848.585	847.850	847.285	845.850	844.539	843.025
37.5	841.726	843.036	843.262	843.375	843.195	842.810	841.839	840.731	838.822	836.923
40.0	835.714	836.449	837.149	837.567	837.375	836.629	835.590	834.290	832.799	830.482
42.5	827.827	829.205	830.652	830.471	830.143	829.544	829.137	827.070	824.663	822.177
45.0	819.227	820.979	821.499	822.165	822.369	821.431	819.860	818.120	816.210	813.577
47.5	809.701	811.419	812.696	812.380	812.154	811.656	810.944	808.809	806.775	804.142
50.0	799.995	801.068	801.543	801.882	801.746	800.944	800.006	798.729	796.684	793.938
52.5	788.729	789.723	790.491	790.672	790.435	789.813	789.124	787.248	785.158	782.954
55.0	775.835	777.372	778.231	778.638	778.830	778.095	776.592	774.954	773.067	770.355
57.5	761.959	763.699	765.360	765.462	765.462	765.021	763.790	762.004	759.462	756.704
60.0	747.212	748.907	750.184	751.100	751.224	750.501	749.224	747.337	744.851	741.868
62.5	731.200	733.178	734.590	735.720	735.562	734.907	733.765	731.381	728.884	726.161
65.0	714.974	716.883	718.522	719.347	719.143	718.510	717.403	715.041	712.612	709.708
67.5	698.216	700.058	701.775	702.340	701.786	701.368	700.024	697.888	695.605	692.656
70.0	680.915	682.769	684.531	684.893	684.283	684.271	682.452	680.362	678.294	676.384
72.5	663.016	664.474	665.683	665.965	665.796	665.446	664.056	662.462	660.801	659.468
75.0	644.292	645.580	646.405	646.609	646.541	646.145	645.219	643.840	642.541	641.840
77.5	624.935	626.370	627.116	627.387	627.466	626.947	626.212	625.026	623.658	622.980
80.0	604.776	605.657	606.414	607.183	607.703	606.787	605.714	604.505	603.556	602.561
82.5	584.244	584.831	585.306	586.154	587.012	585.735	584.673	583.927	583.216	582.153
85.0	563.700	564.514	565.395	566.853	568.164	566.537	565.531	563.938	563.554	561.779
87.5	545.248	545.926	547.089	548.773	550.604	548.592	546.683	545.654	544.615	543.383
90.0	561.361	562.378	563.316	563.361	562.604	560.695	558.130	555.836	553.191	550.728
92.5	545.248	545.926	547.089	548.773	550.604	548.592	546.683	545.654	544.615	543.383
95.0	563.700	564.514	565.395	566.853	568.164	566.537	565.531	563.938	563.554	561.779
97.5	584.244	584.831	585.306	586.154	587.012	585.735	584.673	583.927	583.216	582.153
100.0	604.776	605.657	606.414	607.183	607.703	606.787	605.714	604.505	603.556	602.561
102.5	624.935	626.370	627.116	627.387	627.466	626.947	626.212	625.026	623.658	622.980
105.0	644.292	645.580	646.405	646.609	646.541	646.145	645.219	643.840	642.541	641.840
107.5	663.016	664.474	665.683	665.965	665.796	665.446	664.056	662.462	660.801	659.468
110.0	680.915	682.769	684.531	684.893	684.283	684.271	682.452	680.362	678.294	676.384
112.5	698.216	700.058	701.775	702.340	701.786	701.368	700.024	697.888	695.605	692.656
115.0	714.974	716.883	718.522	719.347	719.143	718.510	717.403	715.041	712.612	709.708
117.5	731.200	733.178	734.590	735.720	735.562	734.907	733.765	731.381	728.884	726.161
120.0	747.212	748.907	750.184	751.100	751.224	750.501	749.224	747.337	744.851	741.868
122.5	761.959	763.699	765.360	765.462	765.462	765.021	763.790	762.004	759.462	756.704
125.0	775.835	777.372	778.231	778.638	778.830	778.095	776.592	774.954	773.067	770.355
127.5	788.729	789.723	790.491	790.672	790.435	789.813	789.124	787.248	785.158	782.954
130.0	799.995	801.068	801.543	801.882	801.746	800.944	800.006	798.729	796.684	793.938
132.5	809.701	811.419	812.696	812.380	812.154	811.656	810.944	808.809	806.775	804.142
135.0	819.227	820.979	821.499	822.165	822.369	821.431	819.860	818.120	816.210	813.577
137.5	827.827	829.205	830.652	830.471	830.143	829.544	829.137	827.070	824.663	822.177
140.0	835.714	836.449	837.149	837.567	837.375	836.629	835.590	834.290	832.799	830.482
142.5	841.726	843.036	843.262	843.364	843.195	842.810	841.839	840.731	838.822	836.923
145.0	847.138	847.828	848.494	848.528	848.585	847.850	847.285	845.850	844.539	843.025
147.5	851.636	852.099	852.698	852.958	852.630	852.122	851.297	850.438	849.816	847.816
150.0	854.721	855.636	856.020	855.964	855.851	855.466	855.071	854.291	853.071	851.636

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CANDELA TABULATION - (Cont.)

152.5	856.902	857.173	857.749	858.269	858.585	858.133	857.455	856.529	855.546	854.517
155.0	858.291	858.868	859.015	859.071	859.060	858.992	858.856	858.450	857.760	856.178
157.5	858.291	858.800	859.252	859.342	859.241	859.184	859.015	858.280	857.297	856.246
160.0	857.783	858.077	858.484	858.924	858.777	858.529	857.681	856.868	856.201	855.150
162.5	856.653	856.608	856.495	856.280	856.009	855.681	855.297	854.913	854.483	853.738
165.0	852.698	853.037	853.308	853.297	853.071	852.845	852.415	851.749	851.037	850.280
167.5	848.404	848.709	848.754	848.720	848.641	848.494	848.291	847.997	847.342	846.698
170.0	842.856	842.935	842.980	842.969	842.901	842.799	842.641	842.494	842.325	842.121
172.5	838.968	839.149	838.392	838.110	837.499	837.386	837.104	836.810	836.471	836.098
175.0	834.968	834.686	834.369	834.042	834.222	833.488	833.205	832.912	832.607	832.279
177.5	830.844	830.742	830.629	830.505	830.380	830.245	830.109	829.962	829.815	829.725
180.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087

Vert. Angles	Horizontal Angles									
	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087
2.5	829.646	829.691	829.736	829.793	829.838	829.883	829.928	829.985	830.030	830.075
5.0	831.951	831.612	831.725	830.900	830.527	830.154	829.815	829.906	829.996	830.087
7.5	835.680	835.330	835.013	834.663	834.279	833.872	833.420	832.946	832.448	832.663
10.0	841.929	841.296	840.630	839.918	839.296	838.731	838.121	837.579	836.754	836.008
12.5	846.042	845.443	844.822	844.031	842.923	841.771	840.844	839.940	839.002	838.031
15.0	849.466	848.607	847.726	846.890	846.042	844.844	843.421	842.234	841.127	839.974
17.5	852.867	851.342	850.054	848.732	847.443	846.223	844.720	842.878	841.454	840.031
20.0	854.246	852.980	851.466	849.918	848.325	846.765	845.296	843.443	841.500	839.872
22.5	855.161	853.941	852.483	850.325	848.178	846.020	843.986	842.053	839.533	837.499
25.0	854.393	852.721	850.800	849.014	846.664	844.279	842.065	839.703	837.285	834.765
27.5	853.071	851.048	848.879	846.675	844.799	841.590	838.675	835.884	833.273	830.222
30.0	850.167	848.347	845.647	842.957	840.324	837.624	834.426	831.364	828.358	825.454
32.5	845.963	844.076	842.144	838.833	835.669	832.550	829.250	825.488	821.996	818.583
35.0	841.059	838.709	836.336	833.477	829.793	826.154	822.606	818.685	814.798	811.261
37.5	835.025	832.720	829.838	826.742	823.295	819.160	815.069	811.125	806.707	802.639
40.0	827.657	825.126	822.448	819.148	815.487	811.283	806.650	802.379	797.633	793.158
42.5	819.544	817.126	813.995	810.764	806.662	802.413	797.554	792.797	788.028	783.372
45.0	810.628	807.667	804.357	801.113	797.543	792.695	787.938	782.672	777.858	772.434
47.5	801.057	797.859	794.774	790.989	786.898	782.050	777.056	771.530	766.332	760.716
50.0	790.876	787.361	783.406	779.655	775.372	770.931	765.654	759.981	754.207	748.376
52.5	779.497	775.824	771.824	767.903	763.654	758.727	753.348	747.551	741.562	735.641
55.0	767.417	763.835	759.914	755.326	750.975	746.060	740.817	735.088	728.669	722.386
57.5	753.755	750.331	745.924	741.777	737.449	732.715	727.031	721.143	714.827	708.453
60.0	738.896	735.088	730.703	726.161	721.900	717.098	712.352	706.804	700.385	693.763
62.5	723.358	719.957	716.217	710.194	705.301	700.747	695.673	690.068	684.271	678.045
65.0	707.064	704.950	699.481	693.865	688.882	683.661	678.000	672.418	667.095	662.033
67.5	689.978	687.063	682.927	677.785	672.350	667.129	661.660	655.739	649.287	644.213
70.0	674.248	671.356	667.706	662.316	656.812	651.694	645.580	638.936	632.088	626.382
72.5	657.796	656.202	652.338	646.292	640.789	635.659	629.399	623.319	616.065	608.313
75.0	640.292	638.179	633.534	628.382	622.709	617.703	612.166	606.426	598.516	590.922
77.5	621.489	617.974	613.590	609.465	603.917	599.420	593.996	587.724	580.899	573.690
80.0	601.103	597.973	594.527	590.255	585.611	580.865	574.921	569.430	562.209	555.067
82.5	580.956	579.012	577.238	572.164	566.740	562.073	556.728	551.259	544.038	537.643
85.0	560.808	559.542	558.514	553.146	547.440	542.682	537.857	531.959	525.247	518.365
87.5	542.197	541.699	541.259	535.371	529.687	524.885	520.128	513.890	507.234	500.545
90.0	548.909	547.078	540.321	533.303	526.456	520.365	513.743	506.229	498.353	490.250
92.5	542.197	541.699	541.259	535.371	529.687	524.885	520.128	513.890	507.234	500.545
95.0	560.808	559.542	558.514	553.146	547.440	542.682	537.857	531.959	525.247	518.365
97.5	580.956	579.012	577.238	572.164	566.740	562.073	556.728	551.259	544.038	537.643

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CANDELA TABULATION - (Cont.)

100.0	601.103	597.973	594.527	590.255	585.611	580.865	574.921	569.430	562.209	555.067
102.5	621.489	617.974	613.590	609.465	603.917	599.420	593.996	587.724	580.899	573.690
105.0	640.292	638.179	633.534	628.382	622.709	617.703	612.166	606.426	598.516	590.922
107.5	657.796	656.202	652.338	646.292	640.789	635.659	629.399	623.319	616.065	608.313
110.0	674.248	671.356	667.706	662.316	656.812	651.694	645.580	638.936	632.088	626.382
112.5	689.978	687.063	682.927	677.785	672.350	667.129	661.660	655.739	649.287	644.213
115.0	707.064	704.950	699.481	693.865	688.882	683.661	678.000	672.418	667.095	662.033
117.5	723.358	719.957	716.217	710.194	705.301	700.747	695.673	690.068	684.271	678.045
120.0	738.896	735.088	730.703	726.161	721.900	717.098	712.352	706.804	700.385	693.763
122.5	753.755	750.331	745.924	741.777	737.449	732.715	727.031	721.143	714.827	708.453
125.0	767.417	763.835	759.914	755.326	750.975	746.060	740.817	735.088	728.669	722.386
127.5	779.497	775.824	771.824	767.903	763.654	758.727	753.348	747.551	741.562	735.641
130.0	790.876	787.361	783.406	779.655	775.372	770.931	765.654	759.981	754.207	748.376
132.5	801.057	797.859	794.774	790.989	786.898	782.050	777.056	771.530	766.332	760.716
135.0	810.628	807.667	804.357	801.113	797.543	792.695	787.938	782.672	777.858	772.434
137.5	819.544	817.126	813.995	810.764	806.662	802.413	797.554	792.797	788.028	783.372
140.0	827.657	825.126	822.448	819.148	815.487	811.283	806.650	802.379	797.633	793.158
142.5	835.025	832.720	829.838	826.742	823.295	819.160	815.069	811.125	806.707	802.639
145.0	841.059	838.709	836.336	833.477	829.793	826.154	822.606	818.685	814.798	811.261
147.5	845.963	844.076	842.144	838.833	835.669	832.550	829.250	825.488	821.996	818.583
150.0	850.167	848.347	845.647	842.957	840.324	837.624	834.426	831.364	828.358	825.454
152.5	853.071	851.048	848.879	846.675	844.799	841.590	838.675	835.884	833.273	830.222
155.0	854.393	852.721	850.800	849.014	846.664	844.279	842.065	839.703	837.285	834.765
157.5	855.161	853.941	852.483	850.325	848.178	846.020	843.986	842.053	839.533	837.499
160.0	854.246	852.980	851.466	849.918	848.325	846.765	845.296	843.443	841.500	839.872
162.5	852.867	851.342	850.054	848.732	847.443	846.223	844.720	842.878	841.454	840.031
165.0	849.466	848.607	847.726	846.890	846.042	844.844	843.421	842.234	841.127	839.974
167.5	846.042	845.443	844.822	844.031	842.923	841.771	840.844	839.940	839.002	838.031
170.0	841.929	841.296	840.630	839.918	839.296	838.731	838.121	837.579	836.754	836.008
172.5	835.680	835.330	835.013	834.663	834.279	833.872	833.420	832.946	832.448	832.663
175.0	831.951	831.612	831.725	830.900	830.527	830.154	829.815	829.906	829.996	830.087
177.5	829.646	829.691	829.736	829.793	829.838	829.883	829.928	829.985	830.030	830.075
180.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087

Vert. Angles **Horizontal Angles**

	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087
2.5	830.121	830.166	830.211	830.188	830.132	830.087	830.030	829.985	829.940	829.895
5.0	830.177	830.267	830.358	830.279	830.188	830.098	830.008	829.917	829.827	830.019
7.5	832.844	833.013	833.149	833.013	832.855	832.663	832.460	832.810	833.285	833.737
10.0	836.223	836.415	836.607	836.426	836.223	836.008	836.618	837.443	837.985	838.596
12.5	837.522	837.759	837.974	837.759	837.522	837.895	838.867	839.805	840.709	841.601
15.0	839.228	839.206	839.409	839.217	839.149	839.850	840.991	842.110	843.251	844.675
17.5	838.596	838.313	838.607	838.324	838.460	839.895	841.319	842.799	844.551	846.065
20.0	838.223	837.579	837.963	837.579	838.098	839.737	841.364	843.274	845.138	846.607
22.5	835.533	834.211	834.550	834.211	835.409	837.375	839.364	841.895	843.839	845.850
25.0	832.573	830.731	831.115	830.742	832.448	834.641	837.115	839.545	841.782	844.110
27.5	827.680	825.216	825.589	825.228	827.544	830.087	833.115	835.725	838.505	841.432
30.0	822.369	819.612	819.747	819.600	822.233	825.036	828.200	831.104	834.256	837.466
32.5	815.272	812.199	811.995	812.063	815.148	818.414	821.838	825.329	829.081	832.392
35.0	807.679	804.345	803.848	804.221	807.543	811.114	814.651	818.527	822.459	825.985
37.5	798.763	795.124	794.322	795.011	798.639	802.481	806.515	810.967	814.911	819.001
40.0	789.102	785.248	784.163	785.135	788.989	793.011	797.475	802.221	806.492	811.114
42.5	778.706	774.547	773.112	774.434	778.593	783.226	787.870	792.638	797.396	802.266
45.0	767.846	763.451	761.699	763.326	767.733	772.298	777.711	782.525	787.779	792.548

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CANDELA TABULATION - (Cont.)

47.5	755.699	751.213	749.145	751.100	755.597	760.569	766.185	771.372	777.011	781.903
50.0	742.918	738.285	735.822	738.184	742.817	748.241	754.060	759.823	765.496	770.784
52.5	729.946	724.963	722.059	724.861	729.844	735.494	741.427	747.405	753.201	758.592
55.0	716.024	711.064	707.798	710.962	715.934	722.251	728.534	734.941	740.681	745.981
57.5	701.820	696.498	692.927	696.396	701.854	708.329	714.702	721.008	726.895	732.590
60.0	686.735	681.322	677.378	681.232	686.690	693.639	700.261	706.679	712.228	716.985
62.5	670.926	665.367	660.993	665.276	670.824	677.932	684.170	689.955	695.560	700.611
65.0	654.812	649.027	644.179	648.948	654.711	661.943	667.005	672.316	677.898	683.548
67.5	638.190	632.619	627.500	632.551	638.100	644.123	649.196	655.637	661.558	667.039
70.0	620.845	615.929	610.494	615.873	620.765	626.302	632.009	638.845	645.490	651.603
72.5	601.770	597.906	592.606	597.849	601.702	608.245	616.076	623.229	629.320	635.580
75.0	583.238	579.136	574.435	579.091	583.170	590.854	598.493	606.347	612.098	617.624
77.5	564.729	558.841	554.875	558.796	564.672	573.633	580.831	587.656	594.007	599.352
80.0	546.852	539.100	535.191	539.066	546.807	555.022	562.152	569.384	574.933	580.809
82.5	528.919	521.122	515.540	521.088	528.885	537.609	543.993	551.225	556.694	562.039
85.0	509.912	503.189	495.957	503.166	509.890	518.331	525.224	531.936	537.823	542.660
87.5	492.985	485.934	478.171	485.923	492.974	500.533	507.223	513.879	520.105	524.862
90.0	482.420	473.312	470.521	473.086	482.126	489.991	498.047	505.924	513.427	520.060
92.5	492.985	485.934	478.171	485.923	492.974	500.533	507.223	513.879	520.105	524.862
95.0	509.912	503.189	495.957	503.166	509.890	518.331	525.224	531.936	537.823	542.660
97.5	528.919	521.122	515.540	521.088	528.885	537.609	543.993	551.225	556.694	562.039
100.0	546.852	539.100	535.191	539.066	546.807	555.022	562.152	569.384	574.933	580.809
102.5	564.729	558.841	554.875	558.796	564.672	573.633	580.831	587.656	594.007	599.352
105.0	583.238	579.136	574.435	579.091	583.170	590.854	598.493	606.347	612.098	617.624
107.5	601.770	597.906	592.606	597.849	601.702	608.245	616.076	623.229	629.320	635.580
110.0	620.845	615.929	610.494	615.873	620.765	626.302	632.009	638.845	645.490	651.603
112.5	638.190	632.619	627.500	632.551	638.100	644.123	649.196	655.637	661.558	667.039
115.0	654.812	649.027	644.179	648.948	654.711	661.943	667.005	672.316	677.898	683.548
117.5	670.926	665.367	660.993	665.276	670.824	677.932	684.170	689.955	695.560	700.611
120.0	686.735	681.322	677.378	681.232	686.690	693.639	700.261	706.679	712.228	716.985
122.5	701.820	696.498	692.927	696.396	701.854	708.329	714.702	721.008	726.895	732.590
125.0	716.024	711.064	707.798	710.962	715.934	722.251	728.534	734.941	740.681	745.981
127.5	729.946	724.963	722.059	724.861	729.844	735.494	741.427	747.405	753.201	758.592
130.0	742.918	738.285	735.822	738.184	742.817	748.241	754.060	759.823	765.496	770.784
132.5	755.699	751.213	749.145	751.100	755.597	760.569	766.185	771.372	777.011	781.903
135.0	767.846	763.451	761.699	763.326	767.733	772.298	777.711	782.525	787.779	792.548
137.5	778.706	774.547	773.112	774.434	778.593	783.226	787.870	792.638	797.396	802.266
140.0	789.102	785.248	784.163	785.135	788.989	793.011	797.475	802.221	806.492	811.114
142.5	798.763	795.124	794.322	795.011	798.639	802.481	806.515	810.967	814.911	819.001
145.0	807.679	804.345	803.848	804.221	807.543	811.114	814.651	818.527	822.459	825.985
147.5	815.272	812.199	811.995	812.063	815.148	818.414	821.838	825.329	829.081	832.392
150.0	822.369	819.612	819.747	819.600	822.233	825.036	828.200	831.104	834.256	837.466
152.5	827.680	825.216	825.589	825.228	827.544	830.087	833.115	835.725	838.505	841.432
155.0	832.573	830.731	831.115	830.742	832.448	834.641	837.115	839.545	841.782	844.110
157.5	835.533	834.211	834.550	834.211	835.409	837.375	839.364	841.895	843.839	845.850
160.0	838.223	837.579	837.963	837.579	838.098	839.737	841.364	843.274	845.138	846.607
162.5	838.596	838.313	838.607	838.324	838.460	839.895	841.319	842.799	844.551	846.065
165.0	839.228	839.206	839.409	839.217	839.149	839.850	840.991	842.110	843.251	844.675
167.5	837.522	837.759	837.974	837.759	837.522	837.895	838.867	839.805	840.709	841.601
170.0	836.223	836.415	836.607	836.426	836.223	836.008	836.618	837.443	837.985	838.596
172.5	832.844	833.013	833.149	833.013	832.855	832.663	832.460	832.810	833.285	833.737
175.0	830.177	830.267	830.358	830.279	830.188	830.098	830.008	829.917	829.827	830.019
177.5	830.121	830.166	830.211	830.188	830.132	830.087	830.030	829.985	829.940	829.895
180.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	200.0	202.5	205.0	207.5	210.0	212.5	215.0	217.5	220.0	222.5
0.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087
2.5	829.849	829.793	829.748	829.702	829.646	829.601	829.815	829.827	829.974	830.121
5.0	830.392	830.765	831.590	831.477	831.816	832.143	832.471	832.776	833.070	833.352
7.5	834.143	834.528	834.878	835.194	835.511	835.929	836.302	836.641	836.934	837.217
10.0	839.161	839.748	840.460	841.127	841.748	841.963	842.178	842.336	842.584	842.618
12.5	842.754	843.861	844.664	845.285	845.884	846.517	847.172	847.828	848.121	848.325
15.0	845.884	846.732	847.534	848.438	849.297	850.110	850.867	851.579	852.246	852.687
17.5	847.297	848.562	849.884	851.172	852.404	853.568	854.325	854.755	855.139	855.512
20.0	848.155	849.749	851.297	852.811	854.088	854.992	855.918	856.709	857.523	858.371
22.5	848.008	850.167	852.302	853.783	855.003	856.088	857.128	858.111	858.879	859.060
25.0	846.494	848.856	850.641	852.449	854.235	856.009	857.625	858.325	858.732	858.868
27.5	844.765	846.517	848.799	850.890	852.913	854.382	855.410	856.393	857.320	858.009
30.0	840.155	842.788	845.489	848.178	850.031	851.511	852.947	854.167	854.947	855.353
32.5	835.511	838.675	841.963	843.940	845.828	847.692	849.658	850.314	851.172	851.997
35.0	829.623	833.307	836.189	838.573	840.923	842.901	844.415	845.726	847.161	847.737
37.5	823.126	826.584	829.702	832.584	834.900	836.788	838.686	840.573	841.726	842.709
40.0	815.329	819.001	822.301	825.002	827.522	830.347	832.674	834.177	835.477	836.528
42.5	806.515	810.617	813.860	816.990	819.408	822.052	824.538	826.968	829.036	829.443
45.0	797.068	800.978	804.221	807.758	810.504	813.453	816.086	818.018	819.758	821.329
47.5	786.762	790.853	794.639	797.735	800.933	804.018	806.662	808.696	810.809	811.566
50.0	775.236	779.519	783.282	787.237	790.751	793.825	796.571	798.627	799.916	800.865
52.5	763.530	767.778	771.700	775.700	779.384	782.830	785.045	787.158	789.022	789.723
55.0	750.851	755.202	759.778	763.710	767.315	770.242	772.965	774.864	776.513	778.016
57.5	737.325	741.675	745.811	750.218	753.642	756.603	759.360	761.914	763.699	764.942
60.0	721.787	726.194	730.590	734.975	738.771	741.766	744.760	747.246	749.145	750.433
62.5	705.210	710.081	716.092	719.855	723.256	726.059	728.771	731.302	733.686	734.839
65.0	688.780	693.763	699.380	704.849	706.973	709.617	712.521	714.962	717.335	718.454
67.5	672.248	677.684	682.825	686.972	689.888	692.577	695.526	697.820	699.956	701.312
70.0	656.722	662.225	667.615	671.276	674.158	676.316	678.215	680.283	682.384	684.204
72.5	640.710	646.213	652.247	656.123	657.716	659.400	660.734	662.406	663.988	665.400
75.0	622.641	628.291	633.455	638.111	640.224	641.783	642.484	643.784	645.173	646.100
77.5	603.861	609.398	613.522	617.918	621.421	622.935	623.613	624.980	626.167	626.901
80.0	585.035	590.199	594.482	597.917	601.058	602.527	603.510	604.460	605.680	606.753
82.5	566.751	572.119	577.249	578.978	580.910	582.119	583.182	583.894	584.639	585.713
85.0	547.417	553.124	558.491	559.519	560.819	561.757	563.554	563.915	565.531	566.514
87.5	529.676	535.349	541.247	541.688	542.185	543.372	544.603	545.643	546.683	548.581
90.0	526.117	532.976	539.993	546.784	548.615	550.446	552.909	555.564	557.858	560.423
92.5	529.676	535.349	541.247	541.688	542.185	543.372	544.603	545.643	546.683	548.581
95.0	547.417	553.124	558.491	559.519	560.819	561.757	563.554	563.915	565.531	566.514
97.5	566.751	572.119	577.249	578.978	580.910	582.119	583.182	583.894	584.639	585.713
100.0	585.035	590.199	594.482	597.917	601.058	602.527	603.510	604.460	605.680	606.753
102.5	603.861	609.398	613.522	617.918	621.421	622.935	623.613	624.980	626.167	626.901
105.0	622.641	628.291	633.455	638.111	640.224	641.783	642.484	643.784	645.173	646.100
107.5	640.710	646.213	652.247	656.123	657.716	659.400	660.734	662.406	663.988	665.400
110.0	656.722	662.225	667.615	671.276	674.158	676.305	678.215	680.283	682.384	684.204
112.5	672.248	677.684	682.825	686.972	689.888	692.577	695.526	697.820	699.956	701.312
115.0	688.780	693.763	699.380	704.849	706.973	709.617	712.521	714.962	717.335	718.454
117.5	705.210	710.081	716.092	719.855	723.256	726.059	728.771	731.302	733.686	734.839
120.0	721.787	726.194	730.590	734.975	738.771	741.766	744.760	747.246	749.145	750.433
122.5	737.325	741.675	745.811	750.218	753.642	756.603	759.360	761.914	763.699	764.942
125.0	750.851	755.202	759.778	763.710	767.315	770.242	772.965	774.864	776.513	778.016
127.5	763.530	767.778	771.700	775.700	779.384	782.830	785.045	787.158	789.022	789.723
130.0	775.236	779.519	783.282	787.237	790.751	793.825	796.571	798.627	799.916	800.865

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CANDELA TABULATION - (Cont.)

132.5	786.762	790.853	794.639	797.735	800.933	804.018	806.662	808.696	810.809	811.566
135.0	797.068	800.978	804.221	807.758	810.504	813.453	816.086	818.018	819.758	821.329
137.5	806.515	810.617	813.860	816.990	819.408	822.052	824.538	826.968	829.036	829.443
140.0	815.329	819.001	822.301	825.002	827.522	830.347	832.674	834.177	835.477	836.528
142.5	823.126	826.584	829.702	832.584	834.900	836.788	838.686	840.573	841.726	842.709
145.0	829.623	833.307	836.189	838.573	840.923	842.901	844.415	845.726	847.161	847.737
147.5	835.511	838.675	841.963	843.940	845.828	847.692	849.658	850.314	851.172	851.997
150.0	840.155	842.788	845.489	848.178	850.031	851.511	852.947	854.167	854.947	855.353
152.5	844.765	846.517	848.799	850.890	852.913	854.382	855.410	856.393	857.320	858.009
155.0	846.494	848.856	850.641	852.449	854.235	856.009	857.625	858.325	858.732	858.868
157.5	848.008	850.167	852.302	853.783	855.003	856.088	857.128	858.111	858.879	859.060
160.0	848.155	849.749	851.297	852.811	854.088	854.992	855.918	856.709	857.523	858.371
162.5	847.297	848.562	849.884	851.172	852.404	853.568	854.325	854.755	855.139	855.512
165.0	845.884	846.732	847.534	848.438	849.297	850.110	850.867	851.579	852.246	852.687
167.5	842.754	843.861	844.664	845.285	845.884	846.517	847.172	847.828	848.121	848.325
170.0	839.161	839.748	840.460	841.127	841.748	841.963	842.178	842.336	842.584	842.618
172.5	834.143	834.528	834.878	835.194	835.511	835.929	836.302	836.641	836.934	837.217
175.0	830.392	830.765	831.590	831.477	831.816	832.143	832.471	832.776	833.070	833.352
177.5	829.849	829.793	829.748	829.702	829.646	829.601	829.815	829.827	829.974	830.121
180.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087

Vert. Angles	Horizontal Angles									
	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087
2.5	830.245	830.369	830.493	830.606	830.708	830.799	830.889	830.968	831.036	831.104
5.0	833.624	833.917	834.200	834.505	834.799	835.059	835.307	835.533	835.725	835.906
7.5	837.341	837.951	838.245	838.991	838.822	839.070	839.341	839.601	839.827	840.031
10.0	842.731	842.799	842.810	842.765	842.686	842.551	843.647	844.020	843.918	844.200
12.5	848.460	848.551	848.585	848.540	848.246	847.884	847.466	846.991	846.607	847.093
15.0	852.913	853.139	853.150	852.867	852.528	852.133	851.658	851.127	850.528	849.839
17.5	855.851	856.122	856.337	856.472	856.517	855.975	855.071	854.031	852.947	851.805
20.0	858.642	858.755	858.359	857.952	857.534	857.003	856.450	855.478	854.235	852.947
22.5	859.116	859.218	859.128	858.687	858.178	857.749	856.981	856.178	855.014	853.297
25.0	858.947	858.947	858.902	858.755	858.190	857.184	856.133	855.060	853.941	852.619
27.5	858.472	858.156	857.636	857.071	856.789	855.885	855.094	853.839	852.280	850.540
30.0	855.738	855.851	855.918	855.534	854.642	853.331	852.099	850.879	849.025	847.127
32.5	852.517	852.856	852.608	852.020	851.658	849.986	848.867	847.161	845.907	843.240
35.0	848.709	848.438	848.314	847.749	847.059	846.054	844.279	842.099	840.019	837.951
37.5	843.104	843.274	843.183	842.957	841.669	840.189	838.596	836.663	834.324	831.816
40.0	837.273	837.477	837.081	836.381	835.658	834.189	831.996	829.556	826.855	823.872
42.5	830.053	830.392	830.550	829.137	827.770	826.448	823.973	821.295	818.595	815.849
45.0	822.290	822.098	821.431	820.549	819.182	817.272	815.092	812.707	809.588	806.515
47.5	812.086	812.312	812.628	811.306	809.645	807.973	805.769	802.967	800.108	796.526
50.0	801.667	801.825	801.475	801.023	799.950	797.870	795.350	792.435	789.237	785.565
52.5	790.356	790.604	790.435	789.678	788.672	786.695	783.994	781.158	777.621	773.643
55.0	778.751	778.581	778.174	777.327	775.801	773.937	771.926	768.445	764.908	761.202
57.5	765.394	765.394	765.315	763.665	761.925	760.106	757.371	754.456	751.043	747.212
60.0	751.156	751.054	750.150	748.862	747.190	744.930	742.308	739.223	735.540	731.460
62.5	735.506	735.675	734.545	733.144	731.166	729.065	726.635	723.957	720.488	715.765
65.0	719.087	719.301	718.488	716.849	714.951	712.646	710.544	708.668	704.736	699.606
67.5	701.730	702.295	701.741	700.024	698.182	695.843	693.504	691.424	688.147	683.277
70.0	684.226	684.848	684.486	682.735	680.870	679.311	677.604	675.288	672.079	667.547
72.5	665.751	665.988	665.649	664.429	662.982	661.943	661.457	659.626	657.016	651.061
75.0	646.496	646.563	646.371	645.546	644.269	644.021	643.173	641.467	637.693	632.732
77.5	627.421	627.353	627.082	626.336	624.913	624.766	623.884	621.206	617.059	612.765

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CANDELA TABULATION - (Cont.)

80.0	607.669	607.149	606.381	605.635	604.753	604.188	603.002	600.437	597.194	593.239
82.5	586.990	586.120	585.283	584.809	584.221	583.453	582.402	580.752	578.741	574.503
85.0	568.141	566.831	565.373	564.503	563.689	562.638	561.655	560.638	559.734	554.740
87.5	550.604	548.762	547.089	545.926	545.259	543.801	543.067	542.242	542.321	536.162
90.0	562.390	563.158	563.124	562.198	561.192	560.073	559.113	558.808	557.180	551.135
92.5	550.604	548.762	547.089	545.926	545.259	543.801	543.067	542.242	542.321	536.162
95.0	568.141	566.831	565.373	564.503	563.689	562.638	561.655	560.638	559.734	554.740
97.5	586.990	586.120	585.283	584.809	584.221	583.453	582.402	580.752	578.741	574.503
100.0	607.669	607.149	606.381	605.635	604.753	604.188	603.002	600.437	597.194	593.239
102.5	627.421	627.353	627.082	626.336	624.913	624.766	623.884	621.206	617.059	612.765
105.0	646.496	646.563	646.371	645.546	644.269	644.021	643.173	641.467	637.693	632.732
107.5	665.751	665.988	665.649	664.429	662.982	661.943	661.457	659.626	657.016	651.061
110.0	684.226	684.848	684.486	682.735	680.870	679.311	677.604	675.288	672.079	667.547
112.5	701.730	702.295	701.741	700.024	698.182	695.843	693.504	691.424	688.147	683.277
115.0	719.087	719.301	718.488	716.849	714.951	712.646	710.544	708.668	704.736	699.606
117.5	735.506	735.675	734.545	733.144	731.166	729.065	726.635	723.957	720.488	715.765
120.0	751.156	751.054	750.150	748.862	747.190	744.930	742.308	739.223	735.540	731.460
122.5	765.394	765.394	765.315	763.665	761.925	760.106	757.371	754.456	751.043	747.212
125.0	778.751	778.581	778.174	777.327	775.801	773.937	771.926	768.445	764.908	761.202
127.5	790.356	790.604	790.435	789.678	788.672	786.695	783.994	781.158	777.621	773.643
130.0	801.667	801.825	801.475	801.023	799.950	797.870	795.350	792.435	789.237	785.565
132.5	812.086	812.312	812.628	811.306	809.645	807.973	805.769	802.967	800.108	796.526
135.0	822.290	822.098	821.431	820.549	819.182	817.272	815.092	812.707	809.588	806.515
137.5	830.053	830.392	830.550	829.137	827.770	826.448	823.973	821.295	818.595	815.849
140.0	837.273	837.477	837.081	836.381	835.658	834.189	831.996	829.556	826.855	823.872
142.5	843.104	843.274	843.183	842.957	841.669	840.189	838.596	836.663	834.324	831.816
145.0	848.709	848.438	848.314	847.749	847.059	846.054	844.279	842.099	840.019	837.951
147.5	852.517	852.856	852.608	852.020	851.658	849.986	848.867	847.161	845.907	843.240
150.0	855.738	855.851	855.918	855.534	854.642	853.331	852.099	850.879	849.025	847.127
152.5	858.472	858.156	857.636	857.071	856.789	855.885	855.094	853.839	852.280	850.540
155.0	858.947	858.947	858.902	858.755	858.190	857.184	856.133	855.060	853.941	852.619
157.5	859.116	859.218	859.128	858.687	858.178	857.749	856.981	856.178	855.014	853.297
160.0	858.642	858.755	858.359	857.952	857.534	857.003	856.450	855.478	854.235	852.947
162.5	855.851	856.122	856.337	856.472	856.517	855.975	855.071	854.031	852.947	851.805
165.0	852.913	853.139	853.150	852.867	852.528	852.133	851.658	851.127	850.528	849.839
167.5	848.460	848.551	848.585	848.540	848.246	847.884	847.466	846.991	846.607	847.093
170.0	842.731	842.799	842.810	842.765	842.686	842.551	843.647	844.020	843.918	844.200
172.5	837.341	837.951	838.245	838.991	838.822	839.070	839.341	839.601	839.827	840.031
175.0	833.624	833.917	834.200	834.505	834.799	835.059	835.307	835.533	835.725	835.906
177.5	830.245	830.369	830.493	830.606	830.708	830.799	830.889	830.968	831.036	831.104
180.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087

Vert. Horizontal Angles
Angles

	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087
2.5	831.149	831.194	831.228	831.262	831.409	831.330	831.397	831.454	831.499	831.454
5.0	836.053	836.189	836.290	836.369	836.426	836.460	836.686	836.562	836.663	836.562
7.5	840.211	840.358	840.471	840.562	840.630	840.652	840.652	840.652	840.788	840.652
10.0	844.449	844.652	844.833	844.957	845.059	845.104	845.116	845.082	845.206	845.308
12.5	847.297	847.455	847.568	847.658	847.703	847.715	847.681	847.613	847.681	847.590
15.0	849.398	849.670	849.749	849.783	849.783	849.749	849.681	849.579	849.579	849.545
17.5	850.630	849.444	849.624	849.557	849.455	849.342	849.195	849.037	848.958	849.003
20.0	852.054	850.212	848.822	848.980	848.867	848.709	848.540	848.336	848.155	848.302
22.5	851.545	849.760	847.941	846.732	846.551	846.268	845.974	845.669	845.364	845.647
25.0	850.732	848.720	846.596	844.404	843.737	843.342	842.957	842.573	842.867	842.539

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CANDELA TABULATION - (Cont.)

27.5	848.777	846.155	843.545	840.969	839.002	838.641	838.189	837.748	837.443	837.725
30.0	845.025	842.867	840.065	837.160	834.279	833.488	832.968	832.482	832.211	832.448
32.5	840.630	837.759	834.821	831.443	828.561	826.279	825.657	825.081	824.832	825.047
35.0	835.036	831.940	828.957	825.680	821.646	818.583	817.973	817.318	817.114	817.295
37.5	828.889	825.216	821.431	817.747	813.521	809.656	808.538	807.758	807.554	807.724
40.0	820.934	817.600	813.487	809.656	805.204	800.854	798.763	797.825	797.633	797.791
42.5	812.526	808.967	804.481	799.916	795.328	790.559	787.531	786.525	786.435	786.503
45.0	802.967	798.989	794.740	789.780	785.282	780.152	776.118	775.067	775.067	775.033
47.5	793.068	788.683	783.960	778.683	773.541	768.197	763.010	761.936	762.004	761.914
50.0	781.497	777.395	772.389	767.191	761.518	756.219	750.512	748.602	748.727	748.580
52.5	769.632	765.338	760.354	754.817	748.693	743.009	737.065	734.342	734.534	734.308
55.0	757.066	752.433	747.529	741.777	735.709	729.686	723.550	719.900	720.205	719.878
57.5	742.794	738.760	733.935	728.217	721.742	715.188	708.781	704.159	704.668	704.137
60.0	727.358	723.064	718.397	713.199	706.905	700.464	694.102	688.328	688.938	688.339
62.5	710.826	706.465	701.560	696.487	690.769	684.486	677.830	671.344	671.875	671.344
65.0	694.283	689.560	684.136	678.565	673.107	667.830	661.513	654.270	654.699	654.270
67.5	677.808	672.915	667.457	661.660	655.423	649.874	644.360	637.354	637.218	637.286
70.0	662.022	657.027	651.321	644.778	637.862	631.602	626.427	620.551	619.635	620.494
72.5	645.535	640.721	634.597	628.506	621.376	613.398	607.059	601.928	600.764	601.883
75.0	627.116	622.008	616.641	610.923	603.341	595.363	587.860	582.764	581.814	582.730
77.5	607.725	603.126	597.736	591.702	584.956	577.679	568.898	562.017	561.113	561.983
80.0	588.267	584.142	578.300	572.673	565.734	558.276	550.197	541.677	540.366	541.643
82.5	569.170	564.537	559.293	553.881	546.705	540.061	531.552	523.201	519.472	523.179
85.0	549.135	544.298	539.564	533.722	527.032	520.037	511.664	504.556	498.601	504.534
87.5	530.286	525.676	520.964	514.760	508.161	501.392	493.833	486.601	479.504	486.589
90.0	545.191	539.225	533.123	526.829	520.275	511.189	503.584	502.534	502.149	502.488
92.5	530.286	525.676	520.964	514.760	508.161	501.392	493.833	486.601	479.504	486.589
95.0	549.135	544.298	539.564	533.722	527.032	520.037	511.664	504.556	498.601	504.534
97.5	569.170	564.537	559.293	553.881	546.705	540.061	531.552	523.201	519.472	523.179
100.0	588.267	584.142	578.300	572.673	565.734	558.276	550.197	541.677	540.366	541.643
102.5	607.725	603.126	597.736	591.702	584.956	577.679	568.898	562.017	561.113	561.983
105.0	627.116	622.008	616.641	610.923	603.341	595.363	587.860	582.764	581.814	582.730
107.5	645.535	640.721	634.597	628.506	621.376	613.398	607.059	601.928	600.764	601.883
110.0	662.022	657.027	651.321	644.778	637.862	631.602	626.427	620.551	619.635	620.494
112.5	677.797	672.915	667.457	661.660	655.423	649.874	644.360	637.354	637.218	637.286
115.0	694.283	689.560	684.136	678.565	673.107	667.830	661.513	654.270	654.699	654.270
117.5	710.826	706.465	701.560	696.487	690.769	684.486	677.830	671.344	671.875	671.344
120.0	727.358	723.064	718.397	713.199	706.905	700.464	694.102	688.328	688.938	688.339
122.5	742.794	738.760	733.935	728.217	721.742	715.188	708.781	704.159	704.668	704.137
125.0	757.066	752.433	747.529	741.777	735.709	729.686	723.550	719.900	720.205	719.878
127.5	769.632	765.338	760.354	754.817	748.693	743.009	737.065	734.342	734.534	734.308
130.0	781.497	777.395	772.389	767.191	761.518	756.219	750.512	748.602	748.727	748.580
132.5	793.068	788.683	783.960	778.683	773.541	768.197	763.010	761.936	762.004	761.914
135.0	802.967	798.989	794.740	789.780	785.282	780.152	776.118	775.067	775.067	775.033
137.5	812.526	808.967	804.481	799.916	795.328	790.559	787.531	786.525	786.435	786.503
140.0	820.934	817.600	813.487	809.656	805.204	800.854	798.763	797.825	797.633	797.791
142.5	828.889	825.216	821.431	817.747	813.521	809.656	808.538	807.758	807.554	807.724
145.0	835.036	831.940	828.957	825.680	821.646	818.583	817.973	817.318	817.114	817.295
147.5	840.630	837.759	834.821	831.443	828.561	826.279	825.657	825.081	824.832	825.047
150.0	845.025	842.867	840.065	837.160	834.279	833.488	832.968	832.482	832.211	832.448
152.5	848.777	846.155	843.545	840.969	839.002	838.641	838.189	837.748	837.443	837.725
155.0	850.732	848.720	846.596	844.404	843.737	843.342	842.957	842.573	842.867	842.539
157.5	851.545	849.760	847.941	846.732	846.551	846.268	845.974	845.669	845.364	845.647
160.0	852.054	850.212	848.822	848.980	848.867	848.709	848.540	848.336	848.155	848.302
162.5	850.630	849.444	849.624	849.557	849.455	849.342	849.195	849.037	848.958	849.003
165.0	849.398	849.670	849.749	849.783	849.783	849.749	849.681	849.579	849.579	849.545

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CANDELA TABULATION - (Cont.)

167.5	847.297	847.455	847.568	847.658	847.703	847.715	847.681	847.613	847.681	847.590
170.0	844.449	844.652	844.833	844.957	845.059	845.104	845.116	845.082	845.206	845.308
172.5	840.211	840.358	840.471	840.562	840.630	840.652	840.652	840.652	840.788	840.652
175.0	836.053	836.189	836.290	836.369	836.426	836.460	836.686	836.562	836.663	836.562
177.5	831.149	831.194	831.228	831.262	831.409	831.330	831.397	831.454	831.499	831.454
180.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087

**Vert.
Angles**

Horizontal Angles

	275.0	277.5	280.0	282.5	285.0	287.5	290.0	292.5	295.0	297.5
0.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087
2.5	831.397	831.341	831.262	831.612	831.205	831.171	831.126	831.070	831.013	830.934
5.0	836.449	836.437	836.403	836.347	836.268	836.155	836.030	835.872	835.703	835.499
7.5	840.630	840.630	840.596	840.539	840.449	840.336	840.189	840.008	839.805	839.579
10.0	845.093	845.082	845.025	844.935	844.811	844.630	844.426	844.178	843.895	843.579
12.5	847.658	847.681	847.681	847.636	847.545	847.432	847.274	847.217	846.596	846.856
15.0	849.647	849.726	849.760	849.760	849.726	849.647	849.387	849.703	850.393	850.992
17.5	849.172	849.308	849.432	849.534	849.602	849.387	850.494	851.670	852.811	853.896
20.0	848.506	848.686	848.845	848.958	848.799	850.065	851.907	852.811	854.110	855.342
22.5	845.941	846.234	846.528	846.720	847.794	849.624	851.410	853.173	854.890	856.054
25.0	842.935	843.319	843.714	844.257	846.460	848.585	850.596	852.495	853.817	854.935
27.5	838.155	838.618	838.980	840.833	843.409	846.020	848.641	850.393	852.156	853.715
30.0	832.946	833.465	834.143	837.025	839.929	842.743	844.878	847.003	848.901	850.766
32.5	825.623	826.256	827.974	831.307	834.686	837.635	840.494	843.116	845.782	847.037
35.0	817.950	818.561	821.510	825.544	828.832	831.804	834.900	837.827	839.906	841.986
37.5	808.515	809.521	813.385	817.611	821.307	825.081	828.765	831.691	834.200	836.539
40.0	798.740	800.718	805.057	809.521	813.351	817.465	820.809	823.759	826.742	829.431
42.5	787.497	790.435	795.192	799.791	804.345	808.843	812.402	815.736	818.470	821.182
45.0	776.095	780.028	785.158	789.655	794.605	798.865	802.842	806.402	809.464	812.594
47.5	762.919	768.072	773.417	778.547	783.836	788.559	792.944	796.401	799.983	802.854
50.0	750.388	756.094	761.394	767.067	772.253	777.282	781.384	785.440	789.124	792.322
52.5	736.952	742.896	748.568	754.693	760.230	765.225	769.519	773.530	777.508	781.056
55.0	723.437	729.573	735.562	741.653	747.416	752.320	756.964	761.089	764.795	768.343
57.5	708.679	715.087	721.618	728.104	733.822	738.658	742.692	747.111	750.941	754.354
60.0	694.001	700.363	706.792	713.086	718.284	722.963	727.257	731.359	735.438	739.133
62.5	677.729	684.396	690.667	696.385	701.459	706.352	710.725	715.663	720.398	723.867
65.0	661.423	667.740	673.005	678.463	684.034	689.469	694.182	699.515	704.645	708.578
67.5	644.281	649.795	655.321	661.570	667.367	672.836	677.717	683.198	688.057	691.345
70.0	626.359	631.523	637.783	644.699	651.242	656.948	661.943	667.468	672.000	675.209
72.5	606.991	613.330	621.297	628.438	634.518	640.642	645.456	650.982	656.948	659.558
75.0	587.803	595.307	603.273	610.867	616.573	621.941	627.048	632.664	637.625	641.411
77.5	568.853	577.622	584.899	591.645	597.680	603.081	607.669	612.709	617.003	621.161
80.0	550.163	558.231	565.689	572.627	578.255	584.097	588.210	593.193	597.148	600.392
82.5	531.518	540.038	546.671	553.847	559.260	564.503	569.136	574.469	578.707	580.718
85.0	511.641	520.015	527.009	533.699	539.541	544.276	549.101	554.717	559.712	560.616
87.5	493.821	501.381	508.138	514.749	520.953	525.665	530.275	536.151	542.298	542.230
90.0	503.494	510.918	519.992	526.580	532.840	538.942	545.214	550.864	556.920	558.570
92.5	493.821	501.381	508.138	514.749	520.953	525.665	530.275	536.151	542.298	542.230
95.0	511.641	520.015	527.009	533.699	539.541	544.276	549.101	554.717	559.712	560.616
97.5	531.518	540.038	546.671	553.847	559.260	564.503	569.136	574.469	578.707	580.718
100.0	550.163	558.231	565.689	572.627	578.255	584.097	588.210	593.193	597.148	600.392
102.5	568.853	577.622	584.899	591.645	597.680	603.081	607.669	612.709	617.003	621.161
105.0	587.803	595.307	603.273	610.867	616.573	621.941	627.048	632.664	637.625	641.411
107.5	606.991	613.330	621.297	628.438	634.518	640.642	645.456	650.982	656.948	659.558
110.0	626.359	631.523	637.783	644.699	651.242	656.948	661.943	667.468	672.000	675.209
112.5	644.281	649.795	655.321	661.570	667.367	672.836	677.706	683.198	688.057	691.345

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CANDELA TABULATION - (Cont.)

115.0	661.423	667.740	673.005	678.463	684.034	689.469	694.182	699.515	704.645	708.578
117.5	677.729	684.396	690.667	696.385	701.459	706.352	710.725	715.663	720.398	723.867
120.0	694.001	700.363	706.792	713.086	718.284	722.963	727.257	731.359	735.438	739.133
122.5	708.679	715.087	721.618	728.104	733.822	738.658	742.692	747.111	750.941	754.354
125.0	723.437	729.573	735.562	741.653	747.416	752.320	756.964	761.089	764.795	768.343
127.5	736.952	742.896	748.568	754.693	760.230	765.225	769.519	773.530	777.508	781.056
130.0	750.388	756.094	761.394	767.067	772.253	777.282	781.384	785.440	789.124	792.322
132.5	762.919	768.072	773.417	778.547	783.836	788.559	792.944	796.401	799.983	802.854
135.0	776.095	780.028	785.158	789.655	794.605	798.865	802.842	806.402	809.464	812.594
137.5	787.497	790.435	795.192	799.791	804.345	808.843	812.402	815.736	818.470	821.182
140.0	798.740	800.718	805.057	809.521	813.351	817.465	820.809	823.759	826.742	829.431
142.5	808.515	809.521	813.385	817.611	821.307	825.081	828.765	831.691	834.200	836.539
145.0	817.950	818.561	821.510	825.544	828.832	831.804	834.900	837.827	839.906	841.986
147.5	825.623	826.256	827.974	831.307	834.686	837.635	840.494	843.116	845.782	847.037
150.0	832.946	833.465	834.143	837.025	839.929	842.743	844.878	847.003	848.901	850.766
152.5	838.155	838.618	838.980	840.833	843.409	846.020	848.641	850.393	852.156	853.715
155.0	842.935	843.319	843.714	844.257	846.460	848.585	850.596	852.495	853.817	854.935
157.5	845.941	846.234	846.528	846.720	847.794	849.624	851.410	853.173	854.890	856.054
160.0	848.506	848.686	848.845	848.958	848.799	850.065	851.907	852.811	854.110	855.342
162.5	849.172	849.308	849.432	849.534	849.602	849.387	850.494	851.670	852.811	853.896
165.0	849.647	849.726	849.760	849.760	849.726	849.647	849.387	849.703	850.393	850.992
167.5	847.658	847.681	847.681	847.636	847.545	847.432	847.274	847.217	846.596	846.856
170.0	845.093	845.082	845.025	844.935	844.811	844.630	844.426	844.178	843.895	843.579
172.5	840.630	840.630	840.596	840.539	840.449	840.336	840.189	840.008	839.805	839.579
175.0	836.449	836.437	836.403	836.347	836.268	836.155	836.030	835.872	835.703	835.499
177.5	831.397	831.341	831.262	831.612	831.205	831.171	831.126	831.070	831.013	830.934
180.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087

**Vert.
Angles**

Horizontal Angles

	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087
2.5	830.855	830.776	830.674	830.573	830.460	830.347	830.222	830.087	829.951	829.804
5.0	835.285	835.036	834.776	834.482	834.177	833.895	833.601	833.330	833.047	832.753
7.5	839.319	839.048	838.799	838.516	838.223	837.929	837.319	837.285	836.788	836.494
10.0	843.624	842.517	842.539	842.630	842.664	842.652	842.596	842.483	842.449	842.200
12.5	847.330	847.749	848.110	848.404	848.449	848.415	848.336	848.189	847.986	847.715
15.0	851.523	851.997	852.404	852.743	853.014	853.026	852.800	852.562	852.133	851.466
17.5	854.947	855.839	856.653	856.359	856.212	855.998	855.726	855.399	855.026	854.642
20.0	856.325	856.879	857.421	857.839	858.246	858.642	858.529	858.258	857.489	856.608
22.5	856.856	857.625	858.065	858.574	859.015	859.026	859.015	858.947	858.777	858.009
25.0	856.020	857.060	858.077	858.551	858.789	858.845	858.834	858.766	858.630	858.224
27.5	854.981	855.772	856.337	856.958	857.523	858.043	858.371	857.907	857.241	856.314
30.0	851.986	853.218	854.529	855.421	855.805	855.749	855.805	855.263	854.868	854.088
32.5	848.415	849.873	851.545	851.907	852.506	852.766	852.427	851.918	851.093	850.235
35.0	844.166	845.941	846.946	847.636	848.223	848.347	848.619	847.658	847.251	845.658
37.5	838.483	840.076	841.556	842.844	843.093	843.195	843.014	842.641	841.658	840.517
40.0	831.872	834.076	835.556	836.290	836.991	837.398	837.206	836.460	835.420	834.121
42.5	823.860	826.527	827.668	829.047	830.460	830.324	829.974	829.386	828.957	826.923
45.0	814.990	817.171	819.092	820.459	821.352	821.962	822.222	821.273	819.702	817.962
47.5	805.837	807.882	809.555	811.227	812.538	812.233	812.018	811.509	810.752	808.651
50.0	795.249	797.769	799.848	800.933	801.407	801.746	801.611	800.808	799.870	798.582
52.5	783.892	786.593	788.729	789.599	790.356	790.537	790.299	789.667	789.079	787.113
55.0	771.824	773.847	775.722	777.248	778.107	778.513	778.694	777.960	776.468	774.830
57.5	757.281	760.015	761.846	763.586	765.236	765.338	765.338	764.897	763.665	761.880
60.0	742.218	744.839	747.111	748.794	750.083	750.987	751.111	750.388	749.111	747.224

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CANDELA TABULATION - (Cont.)

62.5	726.556	728.986	731.099	733.076	734.477	735.619	735.460	734.794	733.652	731.268
65.0	710.465	712.567	714.872	716.782	718.420	719.245	719.042	718.409	717.301	714.928
67.5	693.424	695.764	698.114	699.956	701.673	702.250	701.685	701.267	699.922	697.786
70.0	677.537	679.243	680.814	682.667	684.430	684.803	684.192	684.170	682.350	680.260
72.5	660.824	661.886	662.926	664.372	665.593	665.954	665.717	665.367	663.965	662.372
75.0	643.117	643.964	644.213	645.501	646.326	646.518	646.462	646.055	645.140	643.761
77.5	623.839	624.732	624.867	626.291	627.048	627.319	627.387	626.867	626.133	624.946
80.0	602.968	604.154	604.719	605.601	606.369	607.126	607.646	606.731	605.657	604.437
82.5	582.368	583.430	584.199	584.786	585.261	586.097	586.967	585.690	584.617	583.882
85.0	561.633	562.616	563.667	564.480	565.350	566.819	568.130	566.492	565.520	563.904
87.5	543.044	543.790	545.248	545.914	547.078	548.751	550.592	548.570	546.671	545.643
90.0	558.887	559.836	560.977	561.972	562.909	562.977	562.220	560.277	557.711	555.440
92.5	543.044	543.790	545.248	545.914	547.078	548.751	550.592	548.581	546.671	545.643
95.0	561.633	562.616	563.667	564.480	565.350	566.819	568.130	566.492	565.520	563.904
97.5	582.368	583.430	584.199	584.786	585.261	586.097	586.967	585.690	584.617	583.882
100.0	602.968	604.154	604.719	605.601	606.369	607.126	607.646	606.731	605.657	604.437
102.5	623.839	624.732	624.867	626.291	627.048	627.319	627.387	626.867	626.133	624.946
105.0	643.117	643.964	644.213	645.501	646.326	646.518	646.462	646.055	645.140	643.761
107.5	660.824	661.886	662.926	664.372	665.593	665.954	665.717	665.367	663.965	662.372
110.0	677.537	679.243	680.814	682.667	684.430	684.803	684.192	684.170	682.350	680.260
112.5	693.424	695.764	698.114	699.956	701.673	702.250	701.685	701.267	699.922	697.786
115.0	710.465	712.567	714.872	716.782	718.420	719.245	719.042	718.409	717.301	714.928
117.5	726.556	728.986	731.099	733.076	734.477	735.619	735.460	734.794	733.652	731.268
120.0	742.218	744.839	747.111	748.794	750.083	750.987	751.111	750.388	749.111	747.224
122.5	757.281	760.015	761.846	763.586	765.236	765.338	765.338	764.897	763.665	761.880
125.0	771.824	773.847	775.722	777.248	778.107	778.513	778.694	777.960	776.468	774.830
127.5	783.892	786.593	788.729	789.599	790.356	790.537	790.299	789.667	789.079	787.113
130.0	795.249	797.769	799.848	800.933	801.407	801.746	801.611	800.808	799.870	798.582
132.5	805.837	807.882	809.555	811.227	812.538	812.233	812.018	811.509	810.752	808.651
135.0	814.990	817.171	819.092	820.459	821.352	821.962	822.222	821.273	819.702	817.962
137.5	823.860	826.527	827.668	829.047	830.460	830.324	829.974	829.386	828.957	826.923
140.0	831.872	834.076	835.556	836.290	836.991	837.398	837.206	836.460	835.420	834.121
142.5	838.483	840.076	841.556	842.844	843.093	843.195	843.014	842.641	841.658	840.517
145.0	844.166	845.941	846.946	847.636	848.223	848.347	848.619	847.658	847.251	845.658
147.5	848.415	849.873	851.545	851.907	852.506	852.766	852.427	851.918	851.093	850.235
150.0	851.986	853.218	854.529	855.421	855.805	855.749	855.805	855.263	854.868	854.088
152.5	854.981	855.772	856.337	856.958	857.523	858.043	858.371	857.907	857.241	856.314
155.0	856.020	857.060	858.077	858.551	858.789	858.845	858.834	858.766	858.630	858.224
157.5	856.856	857.625	858.065	858.574	859.015	859.026	859.015	858.947	858.777	858.009
160.0	856.325	856.879	857.421	857.839	858.246	858.642	858.529	858.258	857.489	856.608
162.5	854.947	855.839	856.653	856.359	856.212	855.998	855.726	855.399	855.026	854.642
165.0	851.523	851.997	852.404	852.743	853.014	853.026	852.800	852.562	852.133	851.466
167.5	847.330	847.749	848.110	848.404	848.449	848.415	848.336	848.189	847.986	847.715
170.0	843.624	842.517	842.539	842.630	842.664	842.652	842.596	842.483	842.449	842.200
172.5	839.319	839.048	838.799	838.516	838.223	837.929	837.319	837.285	836.788	836.494
175.0	835.285	835.036	834.776	834.482	834.177	833.895	833.601	833.330	833.047	832.753
177.5	830.855	830.776	830.674	830.573	830.460	830.347	830.222	830.087	829.951	829.804
180.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087

Vert. Angles **Horizontal Angles**

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087
2.5	829.793	829.578	829.623	829.669	829.725	829.770	829.815	829.872	829.917	829.962
5.0	832.448	832.121	831.793	831.454	831.104	831.025	830.369	829.996	829.804	829.895
7.5	836.166	835.782	835.364	835.059	834.742	834.392	834.008	833.590	833.149	832.674

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CANDELA TABULATION - (Cont.)

10.0	842.042	841.827	841.613	840.991	840.324	839.613	839.036	838.460	837.861	837.590
12.5	847.059	846.404	845.760	845.172	844.539	843.748	842.630	841.477	840.596	839.680
15.0	850.754	849.997	849.184	848.325	847.421	846.619	845.771	844.562	843.138	841.997
17.5	854.212	853.455	852.483	851.059	849.783	848.449	847.184	845.963	844.449	842.697
20.0	855.805	854.879	853.986	852.709	851.195	849.647	848.054	846.506	845.037	843.183
22.5	857.026	855.986	854.901	853.692	852.212	850.088	847.929	845.771	843.760	841.827
25.0	857.523	855.930	854.156	852.370	850.562	848.777	846.426	844.042	841.714	839.466
27.5	855.331	854.303	852.834	850.811	848.720	846.449	844.381	841.375	838.460	835.669
30.0	852.867	851.432	849.963	848.121	845.432	842.743	840.110	837.409	834.211	831.058
32.5	849.590	847.636	845.771	843.884	841.895	838.618	835.465	832.347	829.058	825.295
35.0	844.359	842.856	840.878	838.516	836.290	833.273	829.601	825.951	822.425	818.493
37.5	838.629	836.731	834.855	832.539	829.669	826.550	823.103	818.967	814.877	810.944
40.0	832.629	830.301	827.488	824.968	822.278	818.967	815.318	811.103	806.481	802.210
42.5	824.493	822.007	819.374	816.606	813.837	810.605	806.504	802.255	797.384	792.627
45.0	816.041	813.408	810.470	807.724	804.198	800.967	797.057	792.537	787.779	782.525
47.5	806.730	803.984	800.899	797.712	794.627	790.842	786.751	781.892	777.011	771.372
50.0	796.537	793.791	790.729	787.226	783.271	779.508	775.236	770.773	765.564	759.835
52.5	785.011	782.796	779.361	775.677	771.677	767.767	763.518	758.592	753.201	747.405
55.0	772.931	770.219	767.293	763.699	759.846	755.202	750.840	745.969	740.681	734.669
57.5	759.337	756.580	753.631	750.218	745.811	741.664	737.336	732.602	726.906	721.019
60.0	744.738	741.743	738.760	734.963	730.590	726.183	721.799	716.985	712.239	706.691
62.5	728.748	726.036	723.245	719.833	716.137	710.081	705.176	700.611	695.571	689.967
65.0	712.499	709.595	706.951	704.826	699.380	693.763	688.780	683.560	677.910	672.327
67.5	695.504	692.554	689.865	686.961	682.825	677.684	672.248	667.039	661.570	655.649
70.0	678.192	676.282	674.135	671.254	667.604	662.225	656.722	651.603	645.490	638.857
72.5	660.711	659.378	657.694	656.112	652.247	646.202	640.710	635.580	629.320	623.240
75.0	642.461	641.772	640.213	638.100	633.455	628.291	622.641	617.635	612.110	606.347
77.5	623.590	622.912	621.410	617.907	613.522	609.409	603.849	599.352	594.007	587.668
80.0	603.488	602.505	601.047	597.906	594.470	590.199	585.035	580.809	574.933	569.384
82.5	583.159	582.108	580.899	578.967	577.238	572.119	566.740	562.028	556.683	551.225
85.0	563.554	561.746	560.808	559.508	558.480	553.124	547.406	542.660	537.823	531.936
87.5	544.592	543.360	542.174	541.688	541.247	535.349	529.676	524.862	520.105	513.879
90.0	552.796	550.333	548.525	546.694	539.948	532.942	526.094	520.037	513.415	505.912
92.5	544.592	543.360	542.174	541.688	541.247	535.349	529.676	524.862	520.105	513.879
95.0	563.554	561.746	560.808	559.508	558.480	553.124	547.406	542.660	537.823	531.936
97.5	583.159	582.108	580.899	578.967	577.238	572.119	566.740	562.028	556.683	551.225
100.0	603.488	602.505	601.047	597.906	594.470	590.199	585.035	580.809	574.933	569.384
102.5	623.590	622.912	621.410	617.907	613.522	609.409	603.849	599.352	594.007	587.668
105.0	642.461	641.772	640.213	638.100	633.455	628.291	622.641	617.635	612.098	606.347
107.5	660.711	659.378	657.694	656.112	652.247	646.202	640.710	635.580	629.320	623.240
110.0	678.192	676.282	674.135	671.254	667.604	662.225	656.722	651.603	645.490	638.857
112.5	695.504	692.554	689.865	686.961	682.825	677.684	672.248	667.039	661.570	655.649
115.0	712.499	709.595	706.951	704.826	699.380	693.763	688.780	683.560	677.910	672.327
117.5	728.748	726.036	723.245	719.833	716.137	710.081	705.176	700.611	695.571	689.967
120.0	744.738	741.743	738.760	734.963	730.590	726.183	721.799	716.985	712.239	706.691
122.5	759.337	756.580	753.631	750.218	745.811	741.664	737.336	732.602	726.906	721.019
125.0	772.931	770.219	767.293	763.699	759.846	755.202	750.840	745.969	740.681	734.669
127.5	785.011	782.796	779.361	775.677	771.677	767.767	763.518	758.592	753.201	747.405
130.0	796.537	793.791	790.729	787.226	783.271	779.508	775.236	770.784	765.564	759.835
132.5	806.730	803.984	800.899	797.712	794.627	790.842	786.751	781.892	777.011	771.372
135.0	816.041	813.408	810.470	807.724	804.198	800.967	797.057	792.537	787.779	782.525
137.5	824.493	822.007	819.374	816.606	813.837	810.605	806.504	802.255	797.384	792.627
140.0	832.629	830.301	827.488	824.968	822.278	818.967	815.318	811.103	806.481	802.210
142.5	838.629	836.731	834.855	832.539	829.669	826.550	823.103	818.967	814.877	810.944
145.0	844.359	842.856	840.878	838.516	836.290	833.273	829.601	825.951	822.425	818.493
147.5	849.590	847.636	845.771	843.884	841.895	838.618	835.465	832.347	829.058	825.295

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CANDELA TABULATION - (Cont.)

150.0	852.867	851.432	849.963	848.121	845.432	842.743	840.110	837.409	834.211	831.058
152.5	855.331	854.303	852.834	850.811	848.720	846.449	844.381	841.375	838.460	835.669
155.0	857.523	855.930	854.156	852.370	850.562	848.777	846.426	844.042	841.714	839.466
157.5	857.026	855.986	854.901	853.692	852.212	850.088	847.929	845.771	843.760	841.827
160.0	855.805	854.879	853.986	852.709	851.195	849.647	848.054	846.506	845.037	843.183
162.5	854.212	853.455	852.483	851.059	849.783	848.449	847.184	845.963	844.449	842.697
165.0	850.754	849.997	849.184	848.325	847.421	846.619	845.771	844.562	843.138	841.997
167.5	847.059	846.404	845.760	845.172	844.539	843.748	842.630	841.477	840.596	839.680
170.0	842.042	841.827	841.613	840.991	840.324	839.613	839.036	838.460	837.861	837.590
172.5	836.166	835.782	835.364	835.059	834.742	834.392	834.008	833.590	833.149	832.674
175.0	832.448	832.121	831.793	831.454	831.104	831.025	830.369	829.996	829.804	829.895
177.5	829.793	829.578	829.623	829.669	829.725	829.770	829.815	829.872	829.917	829.962
180.0	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087	830.087

Vert. Angles **Horizontal Angles**

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	830.087	830.087	830.087	830.087	830.087
2.5	830.008	830.053	830.098	830.166	830.188
5.0	829.985	830.075	830.166	830.256	830.335
7.5	832.324	832.527	832.720	832.878	833.013
10.0	836.505	835.895	836.121	836.313	836.494
12.5	838.742	837.782	837.409	837.646	837.861
15.0	840.878	839.737	838.652	839.341	839.533
17.5	841.217	839.793	838.358	838.223	838.505
20.0	841.274	839.646	837.997	837.375	837.748
22.5	839.285	837.296	835.330	834.132	834.471
25.0	837.047	834.561	832.369	830.663	831.025
27.5	833.059	830.041	827.499	825.171	825.544
30.0	828.154	824.979	822.188	819.544	819.691
32.5	821.815	818.391	815.114	812.041	811.961
35.0	814.617	811.080	807.521	804.187	803.814
37.5	806.504	802.469	798.627	794.989	794.300
40.0	797.464	793.000	788.977	785.124	784.141
42.5	787.859	782.920	778.593	774.423	773.112
45.0	777.700	772.287	767.733	763.326	761.688
47.5	766.185	760.569	755.597	751.100	749.145
50.0	754.072	748.241	742.828	738.184	735.822
52.5	741.438	735.494	729.799	724.861	722.070
55.0	728.545	722.262	715.945	710.962	707.809
57.5	714.714	708.295	701.866	696.408	692.939
60.0	700.272	693.650	686.701	681.243	677.390
62.5	684.181	677.943	670.836	665.287	661.005
65.0	667.016	661.965	654.722	648.959	644.190
67.5	649.208	644.134	638.111	632.563	627.512
70.0	632.009	626.314	620.777	615.884	610.505
72.5	616.087	608.245	601.714	597.860	592.617
75.0	598.493	590.866	583.182	579.102	574.447
77.5	580.843	573.644	564.672	558.808	554.886
80.0	562.164	555.033	546.807	539.066	535.191
82.5	543.993	537.609	528.896	521.099	515.540
85.0	525.224	518.342	509.890	503.166	495.957
87.5	507.223	500.533	492.974	485.923	478.171
90.0	498.047	489.991	482.137	473.097	470.521
92.5	507.223	500.533	492.974	485.923	478.171
95.0	525.224	518.342	509.890	503.166	495.957

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CANDELA TABULATION - (Cont.)

97.5	543.993	537.609	528.896	521.099	515.540
100.0	562.164	555.033	546.807	539.066	535.191
102.5	580.843	573.644	564.672	558.808	554.886
105.0	598.493	590.866	583.182	579.102	574.447
107.5	616.087	608.245	601.714	597.860	592.617
110.0	632.009	626.314	620.777	615.884	610.505
112.5	649.208	644.134	638.111	632.563	627.512
115.0	667.016	661.965	654.722	648.959	644.190
117.5	684.181	677.943	670.836	665.287	661.005
120.0	700.272	693.650	686.701	681.243	677.390
122.5	714.714	708.295	701.866	696.408	692.939
125.0	728.545	722.262	715.945	710.962	707.809
127.5	741.438	735.494	729.799	724.861	722.070
130.0	754.072	748.241	742.828	738.184	735.822
132.5	766.185	760.569	755.597	751.100	749.145
135.0	777.700	772.287	767.733	763.326	761.688
137.5	787.859	782.920	778.593	774.423	773.112
140.0	797.464	793.000	788.977	785.124	784.141
142.5	806.504	802.469	798.627	794.989	794.300
145.0	814.617	811.080	807.521	804.187	803.814
147.5	821.815	818.391	815.114	812.041	811.961
150.0	828.154	824.979	822.188	819.544	819.691
152.5	833.059	830.041	827.499	825.171	825.544
155.0	837.047	834.561	832.369	830.663	831.025
157.5	839.285	837.296	835.330	834.132	834.471
160.0	841.274	839.646	837.997	837.375	837.748
162.5	841.217	839.793	838.358	838.223	838.505
165.0	840.878	839.737	838.652	839.341	839.533
167.5	838.742	837.782	837.409	837.646	837.861
170.0	836.505	835.895	836.121	836.313	836.494
172.5	832.324	832.527	832.720	832.878	833.013
175.0	829.985	830.075	830.166	830.256	830.335
177.5	830.008	830.053	830.098	830.166	830.188
180.0	830.087	830.087	830.087	830.087	830.087

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	320.24	N.A.	3.60
0-30	712.80	N.A.	8.00
0-40	1234.99	N.A.	13.80
0-60	2528.1	N.A.	28.30
0-80	3872.27	N.A.	43.30
0-90	4471.13	N.A.	50.00
10-90	4391.31	N.A.	49.10
20-40	914.75	N.A.	10.20
20-50	1533.19	N.A.	17.10
40-70	1979.3	N.A.	22.10
60-80	1344.17	N.A.	15.00
70-80	657.98	N.A.	7.40
80-90	598.86	N.A.	6.70
90-110	1256.85	N.A.	14.10
90-120	1943.03	N.A.	21.70
90-130	2617.7	N.A.	29.30
90-150	3758.33	N.A.	42.00
90-180	4471.13	N.A.	50.00
110-180	3214.29	N.A.	35.90
0-180	8942.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.82
10-20	240.42
20-30	392.56
30-40	522.19
40-50	618.44
50-60	674.67
60-70	686.19
70-80	657.98
80-90	598.86
90-100	598.86
100-110	657.98
110-120	686.19
120-130	674.67
130-140	618.44
140-150	522.19
150-160	392.56
160-170	240.42
170-180	79.82

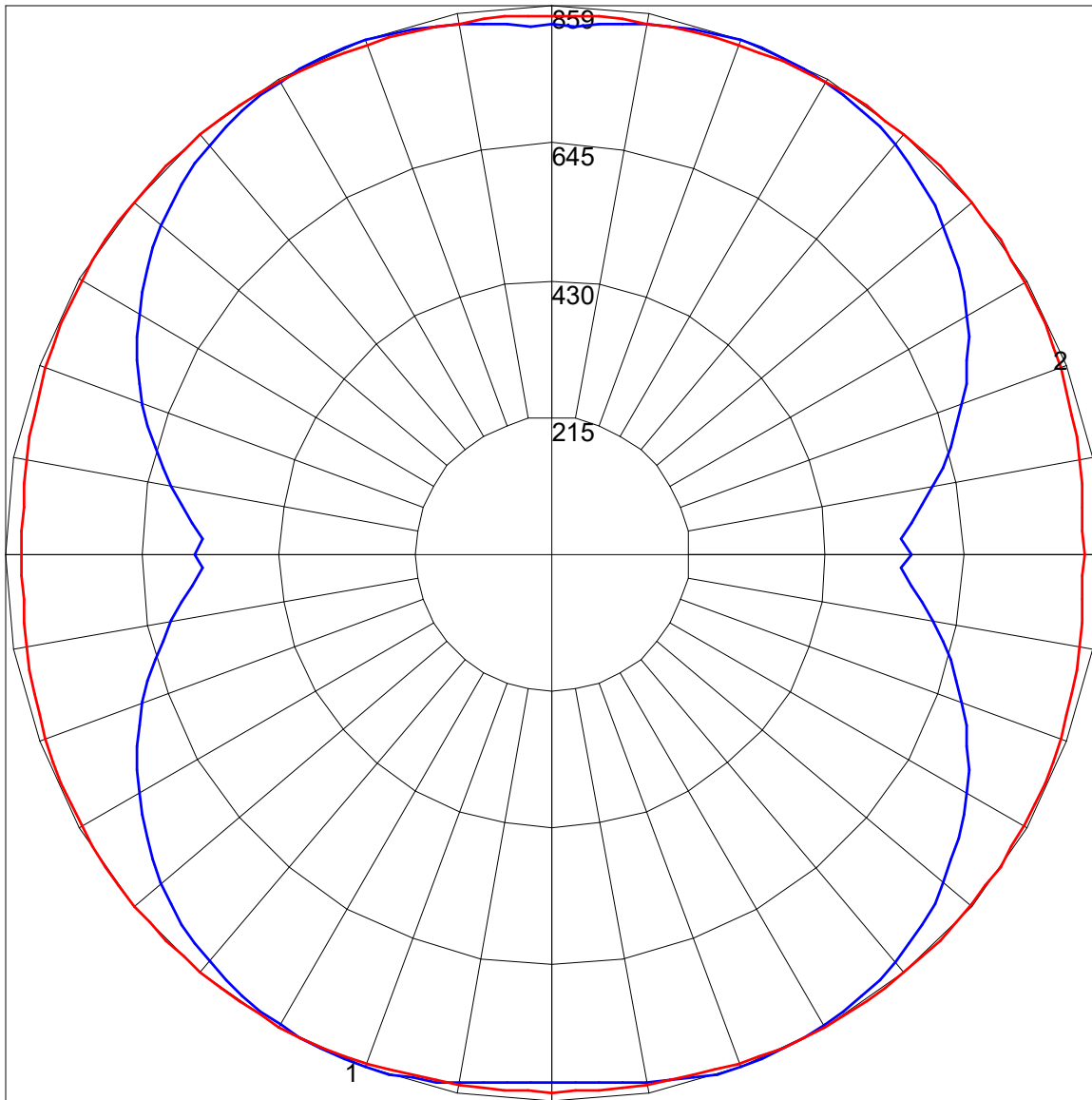
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	95	89	84	79	87	82	77	73	68	65	62	56	53	51	44	43	41	35
2	85	76	68	62	77	70	63	57	58	53	49	47	43	40	37	35	32	27
3	77	66	57	50	70	60	53	47	50	44	39	41	36	33	32	29	26	22
4	70	57	48	42	63	53	45	39	44	38	33	36	31	27	28	24	22	18
5	64	51	42	35	58	47	39	33	39	33	28	32	27	23	25	21	18	15
6	58	45	36	30	53	42	34	28	35	28	24	28	23	20	22	19	16	13
7	54	41	32	26	49	37	30	24	31	25	21	26	21	17	20	17	14	11
8	50	37	28	23	45	34	26	21	28	22	18	23	18	15	19	15	12	10
9	46	33	25	20	42	31	24	19	26	20	16	21	17	13	17	13	11	8
10	43	30	23	18	40	28	21	17	24	18	14	20	15	12	16	12	10	8

POLAR GRAPH



Maximum Candela = 859.342 Located At Horizontal Angle = 132.5, Vertical Angle = 22.5
1 - Vertical Plane Through Horizontal Angles (132.5 - 312.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (22.5) (Through Max. Cd.)